



GRID POWER PRODUCTS

GRID POWER PRODUCTS



Welcome to GRID **Power** Products

Grid Power Products provides a full line of pole-line hardware for use in the distribution, transmission, substation, OEM, and telecommunications market. We provide much more than hardware and insulators, we offer:

- Arresters: Porcelain and Polymer
- Automatic Deadends & Splices
- Bolted Connectors
- Fiberglass Products: Guy Strain Insulators, Cutout/Arrester Brackets and Narrow Profile Arms
- Formed Wire Products: Guy Grips, Distribution & Service Grips, Armor Rods and Line Guards
- Fuse Cutouts: Porcelain & Polymer
- Hardware: Bolts, Pins, Clevis, Brackets, Washers and more
- Hot Line Clamps
- Insulators: Porcelain and Polymer
- Line and Tower Hardware
- Transmission Hardware and Dampers
- OPGW/ADSS Fittings

Call Us Now at 478-254-2721



About GRID Power Products

GRID Power Products is a Manufacturer of power-line material used in the electric utility and telecom industry. With sales made in over 50 countries worldwide, our products continue to be approved at some of the largest utilities in the world.

Our product supply consists of material used in the distribution, substation and transmission markets. The staff at **GRID Power Products** has over 40 years' experience in the utility industry and is well-versed in all areas.

Our distribution warehouse, located in Macon Georgia, is fully stocked with a variety of the products shown in our catalog. Shipments from our distribution center are made within 24 to 48 hours upon receipt of customer order.

In an industry of many changes, **GRID Power Products** strives to uphold the service that is necessary for our customers to remain competitive. Our products are tested at state-of-the-art independent testing laboratories meeting the standards set forth by ANSI, ASTM, IEEE, NEMA, IEC, and the RUS.

The primary advantage we have over our competition is that we are large enough to supply any volume need, but small enough to supply any customer requirement.

Our goal is simple:

To provide top quality products at a competitive price with service that is unmatched in the industry.

Grid Power Products

Mailing Address

P. O. Box 13326
Macon Ga. 31208

Physical Address

2225 Ronald Avenue
Macon Ga 31217

Phone: (478)254-2721

Fax: (478)254-3582

Email: sales@gridpowerproducts.com



MAIN INDEX

AUTOMATIC CONNECTORS -----	1
BOLTED CONNECTORS -----	2
DEADEND AND SUSPENSION CLAMPS -----	3
HARDWARE -----	4
INSULATORS -----	5
TOWER HARDWARE -----	6
PORCELAIN CUTOUTS -----	7
SURGE ARRESTERS -----	8
FIBERGLASS GUY STRAIN INSULATORS -----	9
FIBERGLASS PRODUCTS -----	10
FORMED WIRE PRODUCTS -----	11
HELIX ANCHOR PRODUCTS -----	12
OPGW / ADSS FITTINGS -----	13



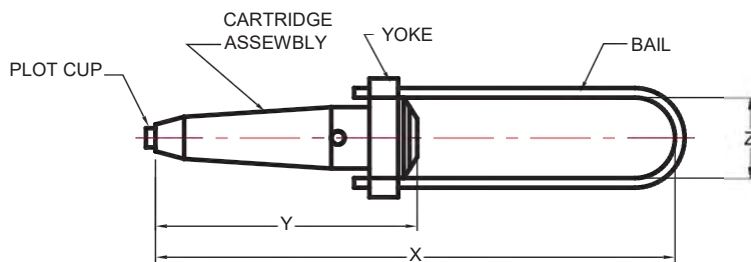
INDEX

SECTION 1 - AUTOMATIC CONNECTORS

GUY DEADENDS AND GUY SPLICES UNIVERSAL GRADE STRAND	1-1
GUY DEADENDS AND GUY SPLICES ALL GRADE STRAND	1-2
AUTOMATIC ALUMINUM LINE SPLICES	1-3
SERVICE WEDGE CLAMPS	1-4



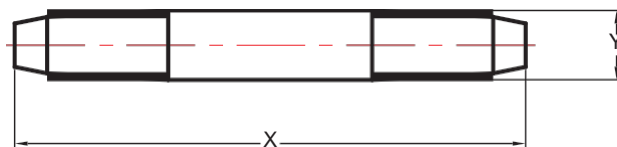
GUY DEADENDS AND GUY SPLICES UNIVERSAL GRADE STRAND



ITEMNO.	BAIL TYPE	DIMENSIONS(INCHES)			WIRERANGE		WT/100
		X	Y	Z	INCHES	MM	
AGDE-316U	A	9.69	4.8	1.57	.145-.215	3.7-5.5	42
AGDE-14U	A	9.9	4.76	1.63	.215-.270	5.5-6.7	62
AGDE-14UL	A	13.52	4.76	1.63	.215-.270	5.5-6.7	64
AGDE-516U	A	10.45	5.38	1.73	.270-.315	6.7-8	84
AGDE-516UL	A	15.71	5.38	1.79	.270-.315	6.7-8	102
AGDE-38U	A	13.31	6.43	2	.325-.392	8.3-10	132
AGDE-38UL	A	16.97	6.43	2.12	.325-.392	8.3-10	154
AGDE-716U	A	14.61	6.85	2.18	.413-.458	10.5-11.6	172
AGDE-716UL	A	18.23	6.85	2.18	.413-.458	10.5-11.6	218
AGDE-12U	A	16.69	7.09	2.18	.455-.520	11.6-13.2	204

ABOVE CATALOG NUMBERS REPRESENT STANDARD BAIL SIZE.

OTHER SIZES ARE AVAILABLE UPON REQUEST.

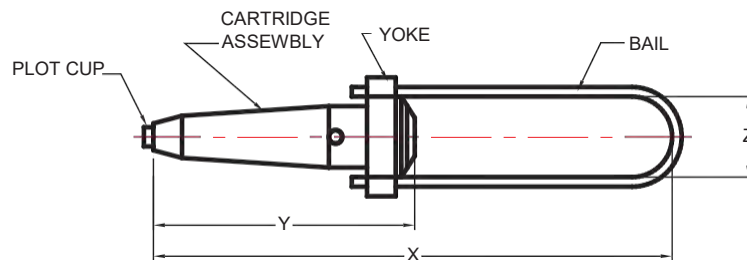


ITEM NO.	TYPE	DIMENSIONS(INCHES)		WIRE RANGE		WT/100
		X	Y	INCHES	MM	
AGS-316U	LINK	7.5	1.03	.145-.215	3.7-5.5	46
AGS-14U	LINK	7.62	1.13	.215-.270	5.5-6.7	60
AGS-516U	LINK	9.28	1.26	.270-.315	6.7-8	84
AGS-38U	LINK	10.6	1.45	.325-.392	8.3-10	132
AGS-716U	LINK	10.6	1.59	.413-.458	10.5-11.6	160
AGS-12U	LINK	10.8	1.7	.455-.520	11.6-13.2	192

FEATURES: MINIMUM HOLDING STRENGTH IS 90% RBS OF WIRE SPECIFIED.

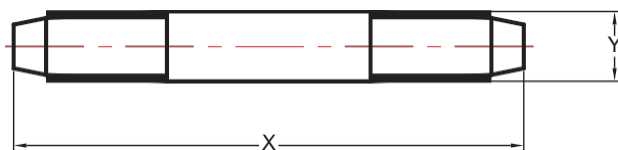


GUY DEADENDS AND GUY SPLICES ALL GRADE STRAND



ITEM NO.	BAIL TYPE	DIMENSIONS(INCHES)			WIRE RANGE		TENSILE STRENGTH		WT/100
		X	Y	Z	INCHES	MM	KGS	LBS	
AGDE-316	A	9.08	3	1.6	.138-.217	3.5-5.5	2000	4400	20
AGDE-14	A	9.2	4.02	1.48	.240-.272	6.1-6.9	2700	6000	44
AGDE-14L	A	12.83	4.02	1.48	.240-.272	6.1-6.9	2700	6000	43
AGDE-516	A	9.36	4.47	1.48	.307-.343	7.8-8.7	4500	10080	72
AGDE-516L	A	13.5	4.47	1.48	.307-.343	7.8-8.7	4500	10080	78
AGDE-38	A	11.46	5.11	1.63	.360-.378	9.1-9.6	6300	13860	104
AGDE-38L	A	17.01	5.11	1.65	.360-.378	9.1-9.6	6300	13860	130
AGDE-716	A	14.8	6.69	2.13	.413-.449	10.5-11.4	8600	18720	176

ABOVE CATALOG NUMBERS REPRESENT STANDARD BAIL SIZE.
OTHER SIZES ARE AVAILABLE UPON REQUEST.

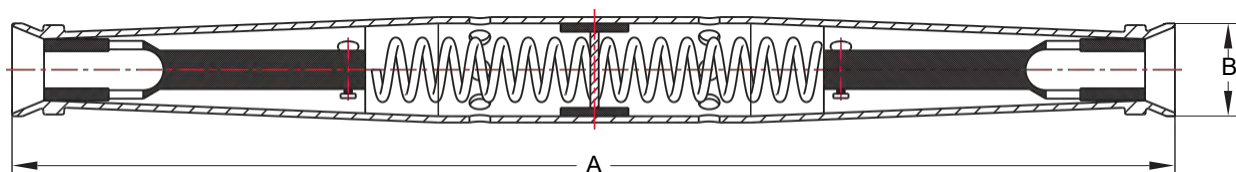


ITEM NO.	TYPE	DIMENSIONS(INCHES)		WIRE RANGE		TENSILE STRENGTH		WT/100
		X	Y	INCHES	MM	KGS	LBS	
AGS-316	LINK	5.2	0.7	.138-.217	3.5-5.5	2000	4400	16
AGS-14	LINK	6.42	0.91	.240-.272	6.1-6.9	2700	6000	30
AGS-516	LINK	7.36	1.11	.307-.343	7.8-8.7	4500	10080	62
AGS-38	LINK	8.27	1.29	.360-.378	9.1-9.6	6300	13860	88
AGS-716	LINK	10.8	1.59	.413-.449	10.5-11.4	8600	18720	155

FEATURES: MINIMUM HOLDING STRENGTH IS 90% RBS OF WIRE SPECIFIED.



AUTOMATIC ALUMINUM LINE SPLICES



Catalog Number	CONDUCTOR RANGE			Conductor Diameter Range	Strand Color Guide	APPROXIMATE DIMENSIONS	
	ACSR ASTM-B232	AAAC ASTM- B399	AAC ASTM-B231			A	B
ALLS-4	#4	#4	#4	0.229-0.265	Orange	13.75	0.834
ALLS-42	#2 & #4	#2 & #4	#2 & #4	0.229-0.340	Red-Orange	13.75	0.834
ALLS-10	1/0	1/0	1/0	0.365-0.425	Yellow	16.25	1.15
ALLS-20	2/0	2/0	2/0	0.425-0.475	Gray	16.25	1.15
ALLS-1020	1/0 & 2/0	1/0 & 2/0	1/0 & 2/0	0.365-0.475	Gray-Yellow	16.25	1.15
ALLS-30	3/0	3/0	3/0	0.502-0.531	Black	22.00	1.74
ALLS-40	4/0	4/0	4/0	0.531-0.585	Pink	22.00	1.74
ALLS-3040	3/0 & 4/0	3/0 & 4/0	3/0 & 4/0	0.502-0.585	Black-Pink	22.00	1.74
ALLS-266-336	266.8(18/1), 336.4(18/1)	312.8,266.8,336.4	336.4,266.8, 336.4&397.5	0.580-0.724	Green	22.00	1.74
ALLS-336-397	397.5(18/1),477(18/1)	477&556.5	477&556.5	0.740-0.856	Blue	22.00	1.85
ALLS-477A	477(26/7)	636	636	0.835-0.878	Purple	32.28	2.24

ALL GRID POWER SPLICES ARE RATED TO HOLD A MINIMUM OF 95% OF THE RATED BREAKING STRENGTH OF THE CONDUCTOR.

FEATURES:

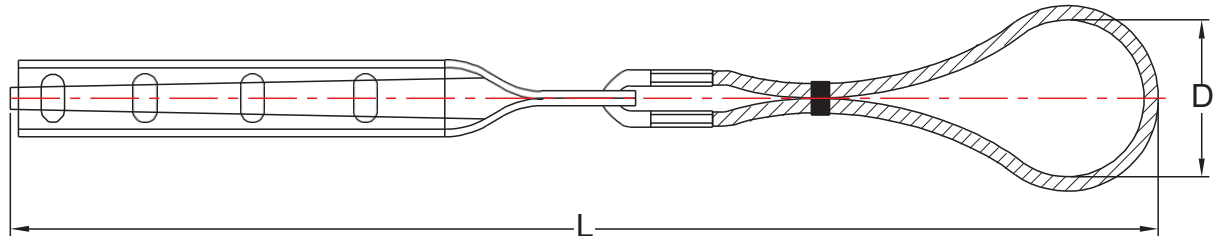
- * FACTORY INSTALLED INHIBITOR
- * ANSI C119.4 FULL TENSION CLASS A CONNECTOR
- * COLOR CODED END CAPS FOR EASY CONDUCTOR IDENTIFICATION
- * EASY AND FAST TO SPLICE OVERHEAD CONDUCTORS

MATERIAL:

- * HIGH STRENGTH ALUMINUM ALLOY TUBING
- * INSIDE JAWS ARE ALUMINUM ALLOY



SERVICE WEDGE CLAMPS



CATALOG NUMBER	WIRE RANGE ACSR	WIRE RANGE ALUMINUM	WIRE RANGE AAAC	TOTAL LENGTH INCHES	INSIDE BALL DIMENSIONS INCHES
SWC62-1	#6-#2	6SOL.-1STR	#4-#1/0	12"	2 3/8"
SWC20-1	#6-#2	6SOL.-1STR	#4-#1/0	12 1/2"	2 3/8"
SWC40-1	#6-#2	6SOL.-1STR	#2/0-#4/0	12 3/4"	2 3/8"

THE ABOVE CLAMPS ARE USED PRIMARILY IN SERVICE DROP APPLICATIONS. WHERE STRAIN RELIEF IS NEEDED. THEN CAN ALSO BE USED FOR DEADENDING DROP WIRE AS WELL AS ADJUSTING THE SAG IN DROP WIRES.

THE ABOVE SERVICE WEDGE CLAMPS ARE FURNISHED WITH A RIGID STAINLESS STEEL BAIL. FLEXIBLE BAILS ARE ALSO AVAILABLE JUST ADD THE SUFFFIX "F" TO OUR PART NUMBER. (EXAMPLE:SWC62-1F)



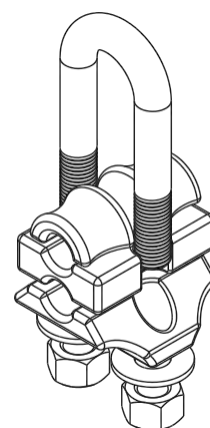
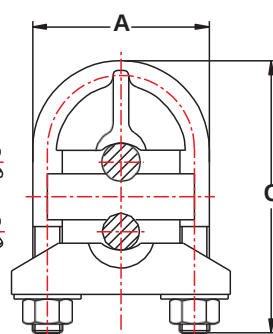
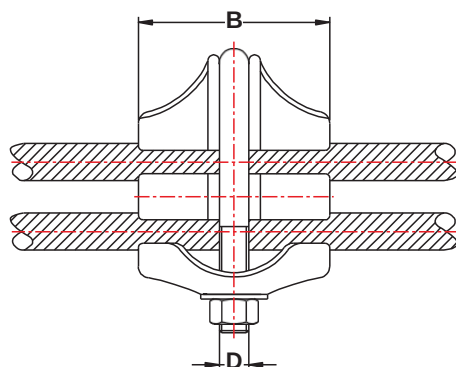
INDEX

SECTION 2 - BOLTED CONNECTORS

DEADEND LOOP CLAMPS	2-1
SINGLE GROOVE GROUND CLAMPS	2-2
DOUBLE GROOVE GROUND CLAMPS	2-3
HOT LINE CLAMPS ALUMINUM	2-4
HOT LINE CLAMPS BRONZE	2-5
ALUMINUM PARALLEL CONNECTORS	2-6
BRONZE PARALLEL CONNECTORS	2-7
BRONZE STRAIGHT TERMINAL CONNECTORS	2-8
TANK GROUND CONNECTORS	2-9
LARGE BODY TANK GROUND CONNECTORS	2-10
ALUMINUM VISE CONNECTORS	2-11 & 12



DEADEND LOOP

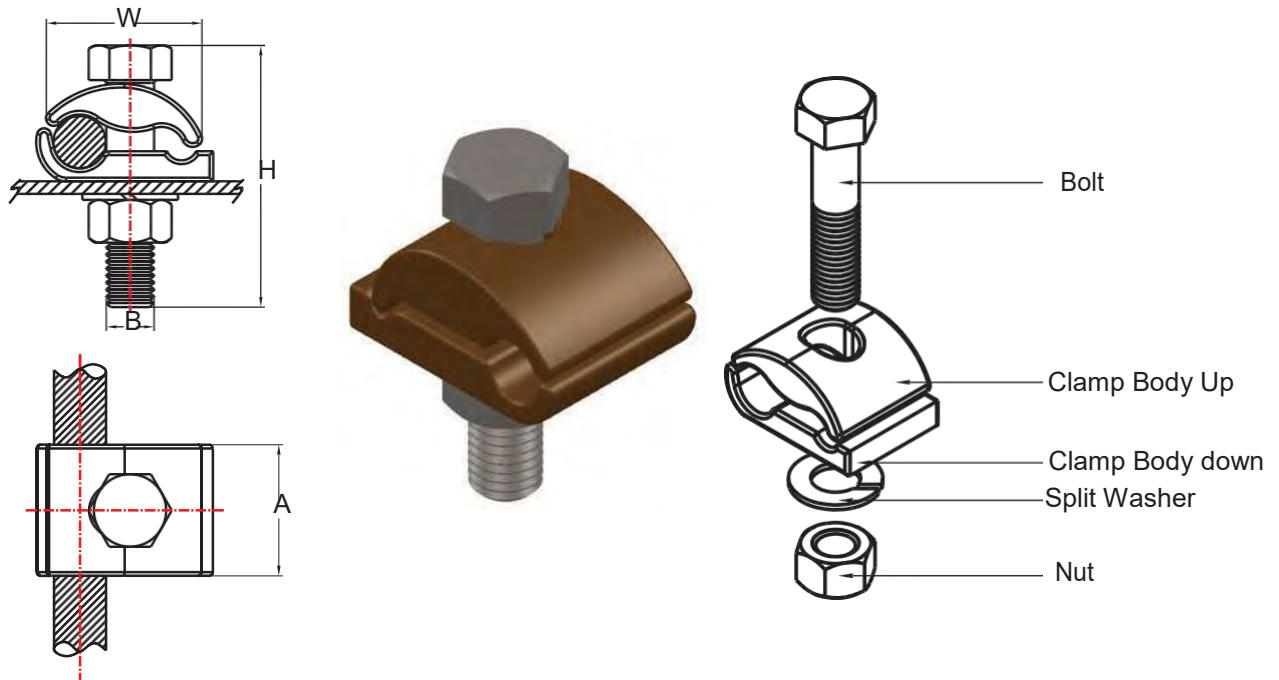


CATALOG NUMBER	CONDUCTOR RANGE MAIN	CONDUCTOR RANGE TAP	DIM. A	DIM. B	DIM. C	DIM. D	APPROX. WEIGHT PER 100
PC-71B	#6 SOL.-2/0 STR. AAC #8 -2/0 ACSR	#6 SOL.-2/0 STR. AAC #8 -2/0 ACSR	2"	2"	2 7/8"	3/8"	44 LBS.
PC-72B	#6 SOL.-2/0 STR. AAC #8 -2/0 ACSR	#6 SOL.-2/0 STR. AAC #8 -2/0 ACSR	2 1/4"	2 1/4"	3 3/8"	1/2"	75 LBS.
PC-73B	1/0 SOL.-400 MCM AAC 1/0-336.4 MCM ACSR	#6 SOL.-1/0 STR. AAC #8 -1/0 ACSR	2 5/8"	2 3/4"	4"	1/2"	110 LBS.
PC-74B	1/0 SOL.-400 MCM AAC 1/0-336.4 MCM ACSR	1/0 SOL.-400 MCM AAC 1/0-336.4 MCM ACSR	2 5/8"	2 3/4"	4"	1/2"	120 LBS.
PC-75B	336.4-954 MCM AAC 300-795 MCM ACSR	#6 SOL.-1/0 STR. AAC #8 -1/0 ACSR	3"	3 1/4"	4 5/8"	1/2"	145 LBS.
PC-77B	336.4-1033.5 MCM AAC 300-954 (45/7) ACSR	336.4-1033.5 MCM AAC 300-954 (45/7) ACSR	3 3/8"	3 1/2"	5 3/8"	5/8"	195 LBS.

THE ABOVE CLAMPS ARE PRIMARILY USED FOR ACSR LOOP DEADENDS. THEY MAY ALSO BE USED FOR SPLICING OR TAP CONNECTIONS. IN SPLICING CONNECTIONS IT IS RECOMMENDED THE INSTALLER USES A SEAL-ANT. PLEASE ADD THE SUFFIX "XB" TO THE CATALOG NUMBER FOR THIS FEATURE.



SINGLE GROOVE GROUND CLAMPS



CATALOG NUMBER	COPPER CONDUCTOR RANGE	COPPER CONDUCTOR DIAMETER	DIM. A	DIM. H	DIM. W	DIM. B	APPROX. WEIGHT PER 100
SGGC-141	6 SOL.-2/0 STR.	.162"-.419"	1 1/4"	2"	1 5/8"	1/2"	41 LBS.
SGGC-141A-02	4 SOL.-300 MCM	.204"-.630"	1 1/2"	2 1/8"	1 7/8"	1/2"	50 LBS.
SGGC-141-03	300-500 MCM	.629"-.813"	2"	2 3/8"	2 1/2"	1/2"	94 LBS.
SGGC-141-07	4 SOL.-300 MCM	.204"-.630"	1 3/4"	2 1/4"	2 1/8"	5/8"	86 LBS.
SGGC-141-10	750-1000 MCM	.998"-1.152"	2 1/4"	3 3/8"	3"	5/8"	165 LBS.

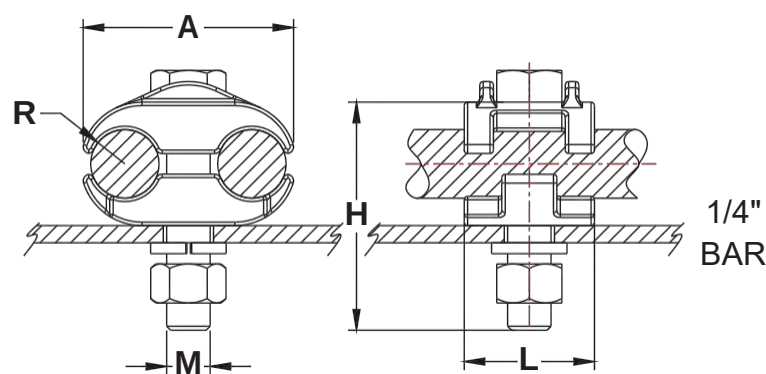
THE ABOVE SINGLE GROOVE GROUND CLAMPS ARE USED TO CLAMP COPPER CABLE TO A FLAT BAR. IF THE FLAT BAR IS THICKER THAN THE 1/4" SHOWN, THEN ADD THE THICKNESS TO THE PART NUMBER TO OBTAIN LONGER BOLTS. FOR EXAMPLE : #SGGC -141A-02-1/2 FOR 1/2" BAR.

MATERIAL : BODY -BRONZE ALLOY

HARDWARE -STAINLESS STEEL, GALVANIZED STEEL, OR SILICON BRONZE



DOUBLE GROOVE GROUND CLAMPS



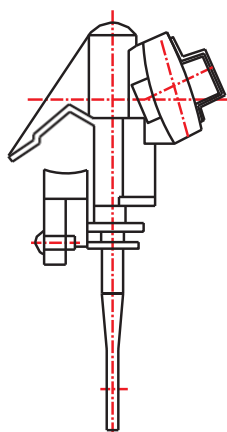
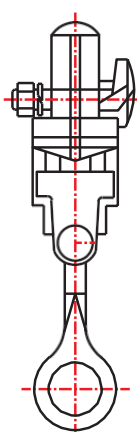
CATALOG NUMBER	COPPER CONDUCTOR RANGE	DIM. A	DIM. H	DIM. W	DIM. B	APPROX. WEIGHT PER 100
DGGC-143-01	4 SOL.-2/0 STR.	1 1/2"	2 1/4"	2"	3/8"	59 LBS.
DGGC-143A-02	4 SOL.-300 MCM	1 1/2"	2 5/8"	2 1/4"	1/2"	68 LBS.
DGGC-143B-02	4 SOL.-250 MCM	1 3/4"	2 3/4"	2 5/16"	5/8"	90 LBS.
DGGC-143-03	300-500 MCM	2"	2 3/4"	2 5/8"	1/2"	83 LBS.

THE ABOVE DOUBLE GROOVE GROUND CLAMPS ARE USED TO CLAMP TWO COPPER CABLES TO FLAT BAR. IF THE FLAT BAR IS THICKER THAN THE 1/4" SHOWN, THEN ADD THE THICKNESS TO THE CATALOG NUMBER TO OBTAIN LONGER BOLTS. FOR EXAMPLE : #DGGC-143-02-1/2 FOR 1/2" BAR.
FOR GALVANIZED HARDWARE ADD THE SUFFIX "G" TO THE CATALOG NUMBER.

MATERIAL : BODY-BRONZE ALLOY
HARDWARE-STAINLESS STEEL, GALVANIZED STEEL, OR SILICON BRONZE



HOT LINE CLAMPS ALUMINUM

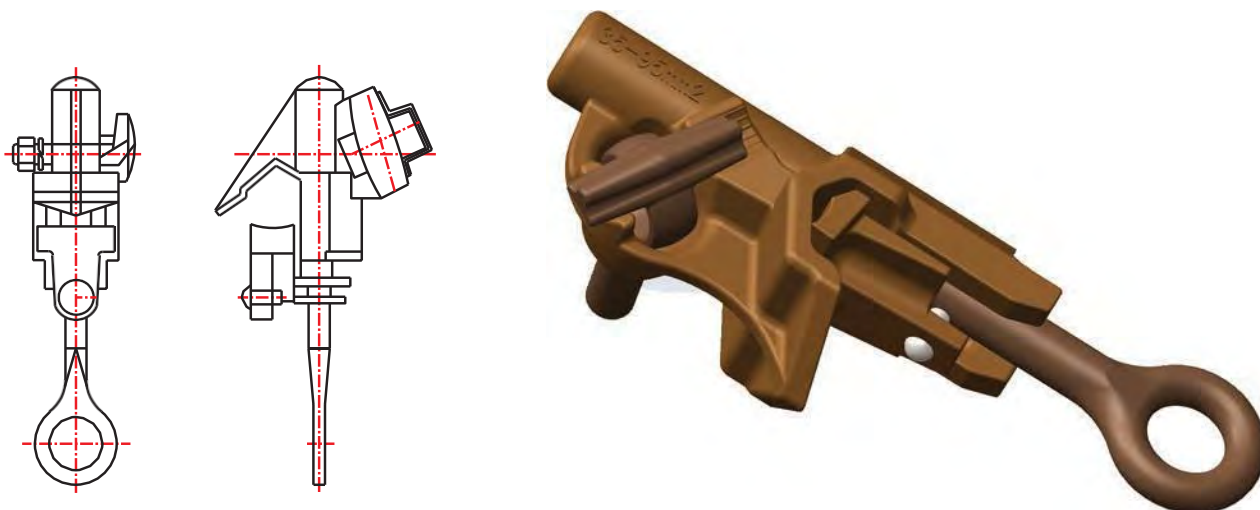


CATALOG NUMBER	TYPE OF CONNECTION MAIN TAP	MAIN LINE RANGE DIA. SIZE INCHES MCM/AWG	TAP LINE RANGE DIA. SIZE INCHES MCM/AWG	RECOMMENDED TORQUE OF EYE SCREW AND TERMINAL	WEIGHT PER 100 PIECES
UHC520AA	ALUM. TO ALUM.	.128" TO .414" 6 ACSR TO 1/0 ACSR	.128" TO .438" 6 ACSR TO 1/0 ACSR	180 INCH – POUND	40 LBS.
UHC520AGP	GENERAL PURPOSE ALUMINUM BODY	.128" TO .414" 6 ACSR TO 1/0 8 SOL. TO 2/0 CU.	.128" TO .414" 6 ACSR TO 1/0 8 SOL. TO 2/0 CU.	180 INCH – POUND	42 LBS.
UHC530AA	ALUM. TO ALUM.	.162" TO .745" 6 ACSR TO 336 ACSR	.162" TO .547" 6 ACSR TO 3/0 ACSR	200 INCH – POUND	68 LBS.
UHC530AC	ALUM. TO COPPER	.162" TO .745" 6 ACSR TO 336 ACSR	.162" TO .547" 6 SOL. CU. TO 4/0 STR.	200 INCH – POUND	72 LBS.
UHC530AGP	GENERAL PURPOSE ALUMINUM BODY	.162" TO .745" 6 ACSR TO 336 ACSR	.162" TO .547" 6 ACSR TO 3/0 6 CU. TO 4/0	200 INCH – POUND	70 LBS.
UHC535AA	ALUM. TO ALUM.	.250" TO .806" 4 ACSR TO 397.5 ACSR	.204" TO .806" 4 STR. AL. TO 397.5	300 INCH – POUND	70 LBS.
UHC535AGP	GENERAL PURPOSE ALUMINUM BODY	.250" TO .806" 4 ACSR TO 397.5 ACSR	.204" TO .806" 4 SOL. CU. TO 397.5	300 INCH – POUND	87 LBS.
UHC540AA	ALUM. TO ALUM.	.502" TO 1.031" 4 ACSR W/Armor TO 266.8 W/Armor	.198" TO .703" 6 ACSR TO 266.8 ACSR	250 INCH – POUND	107.5 LBS.
UHC540AC	ALUM. TO COPPER	.502" TO 1.031" 4 ACSR W/Armor TO 266.8 W/Armor	.198" TO .703" 4 SOL. CU. TO 300 STR.	250 INCH – POUND	109 LBS.
UHC540AGP	GENERAL PURPOSE ALUMINUM BODY	.502" TO 1.031" 4 ACSR W/Armor TO 266.8 W/Armor	.198" TO .703" 6 ACSR TO 266.8 4 SOL. CU. TO 300	250 INCH – POUND	110 LBS.
UHC545AA	ALUM. TO ALUM.	.939" TO 1.490" 4/0 ACSR W/Armor 556.5 ACSR W/Armor	.198" TO .703" 6 ACSR TO 266.8 ACSR	250 INCH – POUND	125 LBS.
UHC545AGP	GENERAL PURPOSE ALUMINUM BODY	.939" TO 1.49" 4/0 ACSR W/Armor 556.5 ACSR W/Armor	.198" TO .703" 6 ACSR TO 266.8 4 SOL. CU. TO 300	250 INCH – POUND	128 LBS.

THE UHC HOT LINE CLAMPS ARE OFFERED IN A VARIETY OF CONDUCTOR COMBINATIONS. EACH EYE SCREW IS FILLED WITH INHIBITOR TO PREVENT CORROSION AND PROMOTE AN EASE OF OPERATION. CLAMPS THAT END WITH THE SUFFIX "GP" HAVE A FORTIFIED PLATING FOR FURTHER PROTECTION. ALSO OFFEECIOHC EHT SI DER .8/3 DRADNATS EHT FO DAETSNI TLOB PAT "2/1 A



HOT LINE CLAMPS BRONZE



CATALOG NUMBER	TYPE OF CONNECTION MAIN TAP	MAIN LINE RANGE DIA. SIZE INCHES MCM/AWG	TAP LINE RANGE DIA. SIZE INCHES MCM/AWG	RECOMMENDED TORQUE OF EYE SCREW AND TERMINAL	WEIGHT PER 100 PIECES
UHC520CC	COPPER TO COPPER	.128" TO 8 SOL. CU. TO TO 2/O STR. .414"	.128" TO 8 SOL. CU. TO .438" 2/O STR.	180 INCH – POUND	69 LBS.
UHC520GP	GENERAL PURPOSE BRONZE BODY	.128" TO 6 ACSR TO 1/O .414" 8 SOL. CU. TO 2/O	.128" TO 6 ACSR TO 1/O .438" 8 SOL. CU. TO 2/O	180 INCH – POUND	71 LBS.
UHC530CC	COPPER TO COPPER	.162" TO 6 SOL. CU. TO .745" 400 STR.	.162" TO 6 SOL. CU. TO .547" 4/O STR.	200 INCH – POUND	132 LBS.
UHC530GP	GENERAL PURPOSE BRONZE BODY	.162" TO 6 SOL. CU. TO .745" 400 STR.	.162" TO 6 ACSR TO 3/O .547" 6 SOL. CU. TO 4/O	200 INCH – POUND	136 LBS.
UHC540CC	COPPER TO COPPER	.502" TO 2 CU. W/ Ar-mor 1.031" 300 CU. W/ Armor	.198" TO 4 SOL. CU. TO .703" 300 CU.	250 INCH – POUND	96 LBS.
UHC540GP	GENERAL PURPOSE BRONZE BODY	.502" TO 2 CU. W/ Ar-mor 1.031" 300 CU. W/ Armor	.198" TO 6 ACSR TO 266.8 .703" 4 SOL. CU. TO 300	250 INCH – POUND	98 LBS.

THE UHC SERIES OF BRONZE HOT LINE CLAMPS ARE PRIMARILY MADE FOR USE ON COPPER CONDUCTOR. EACH EYE SCREW IS FILLED WITH INHIBITOR TO PREVENT CORROSION AND PROMOTE AN EASE OF OPERATION. CLAMPS THAT END WITH THE SUFFIX "GP" HAVE A TIN PLATING FOR FURTHER PROTECTION. ALSO OFFERED IS THE CHOICE OF A 1/2" TAP BOLT INSTEAD OF THE STANDARD 3/8".

ALUMINUM PARALLEL CONNECTORS

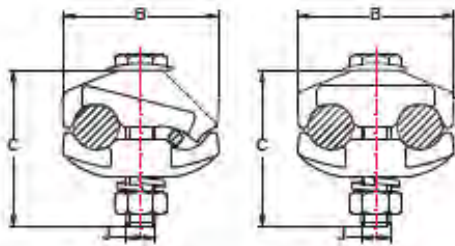


Fig 1

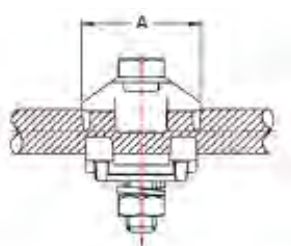


Fig 1 (Side)

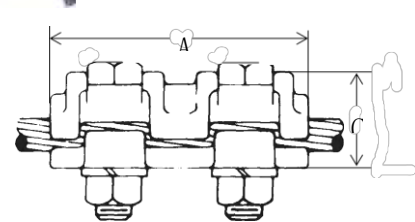


Fig 2

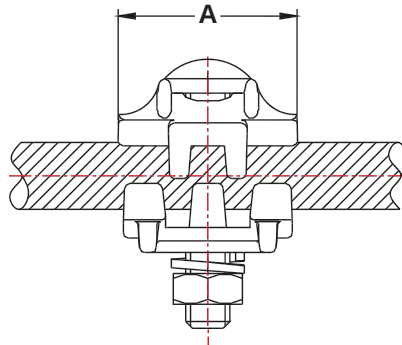
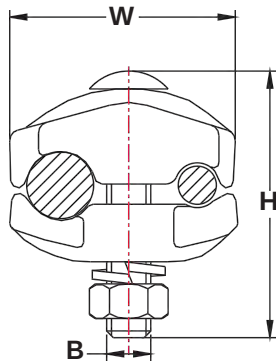
CATALOG NUMBER	MAIN LINE RANGE	TAP LINE RANGE	LENGTH DIA. INCHES A	WIDTH DIA. INCHES B	HEIGHT DIA. INCHES C	BOLT J DIA. INCHES	WEIGHT PER 100 PIECES
PC- 51 - A <i>Fig 1</i>	8 SOL.- 1/0 STR. AAC 8 ACSR- 1/0 ACSR	8 SOL.- 2 STR. AAC 8 ACSR- 2 ACSR 8 SOL.- 2 STR. CU.	1-1/8"	1-13/32"	1-1/2"	5/16"	14 Lbs
PC- 51 - C <i>Fig 1</i>	8 SOL.- 1/0 STR. AAC 8 ACSR- 1/0 ACSR	8 SOL.- 1/0 STR. AAC 8 ACSR- 1/0 ACSR 8 SOL.- 1/0 STR. CU.	1-1/4"	1-17/32"	2"	3/8"	19 Lbs
PC- 52 - A <i>Fig 1</i>	8 SOL.- 2/0 STR. AAC 8 ACSR-2/0 ACSR	8 SOL.- 2/0 STR. AAC 8 ACSR- 2/0 ACSR 8 SOL.- 2/0 STR. CU.	1-3/8"	1-21/32"	2"	3/8"	22 Lbs
PC- 52 - C <i>Fig 1</i>	1 SOL.- 400 MCM AAC 1 ACSR- 336.4 ACSR.	8 SOL.- 2/0 STR. AAC 8 ACSR- 2/0 ACSR 8 SOL.- 2/0 STR. CU.	2"	2-11/32"	2-1/4"	3/8"	28 Lbs
PC- 66 - A <i>Fig 2</i>	1 SOL.- 400 MCM AAC 1 ACSR- 397.5 ACSR	1/0 (19) - 400 MCM AAC 1/0-397.5 (18/1) ACSR 1/0 SOL. -400 MCM Cu	3-1/2"	2-3/8"	2-3/4"	1/2"	110 Lbs

THE ABOVE PC SERIES OF ALUMINUM PARALLEL CONNECTORS ARE FURNISHED WITH A COPPER TAP LINER AND ARE TO BE USED FOR ALUMINUM TO COPPER CONNECTIONS ONLY. IT IS RECOMMENDED THAT THE CONNECTORS BE PREFILLED WITH SEALANT. THIS CAN BE DONE AT THE FACTORY BY ADDING THE SUFFIX "XB" TO THE PART NUMBER. TO ORDER TIN PLATED SURFACE, ADD THE SUFFIX "T" TO THE PART NUMBER.

WITH THE USE OF THIS CLAMPS INTERLOCKING FEATURES, THE TOP AND BOTTOM PART OF THE CLAMP ARE ABLE TO FULLY EMBRACE ANY CONDUCTOR COMBINATIONS. OTHER SIZES ARE AVAILABLE UPON REQUEST. CONTACT GPP FOR SPECIFIC DRAWINGS ON ANY OF THE ABOVE CONNECTORS.



BRONZE PARALLEL CONNECTORS



CATALOG NUMBER	CONDUCTOR MAIN RANGE	CONDUCTOR TAP RANGE	DIM. A	DIM. W	DIM. H	DIM. B	WT. EACH
BPC- 1601	1/0 SOL.- 4/0 STR. CU.	8 SOL.- 1 STR. CU.	2"	1 3/4"	2"	3/8"	.56 LBS.
BPC- 1602	1/0 SOL.- 400 MCM CU.	8 SOL.- 3/0 STR. CU.	2 3/8"	2 1/4"	2 3/4"	1/2"	1.04 LBS.

THE ABOVE BRONZE PARALLEL CONNECTORS ARE USED PRIMARILY FOR COPPER TO COPPER CONNECTIONS. THIS SERIES IS FURNISHED WITH A SINGLE CENTER BOLT.

MATERIAL : BODY-HIGH STRENGTH BRONZE ALLOY
HARDWARE-SILICON BRONZE



BRONZE STRAIGHT TERMINAL CONNECTORS

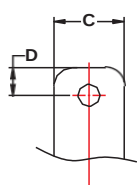


Fig.1

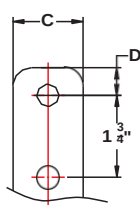


Fig.2

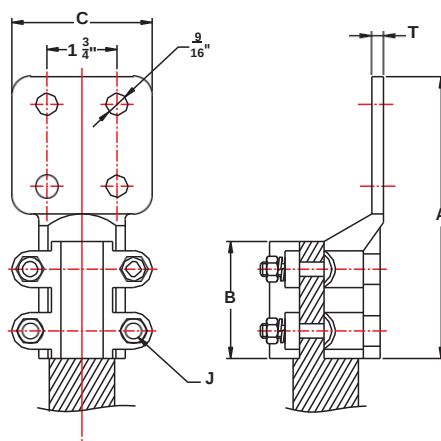


Fig.3



CATALOG NUMBER	FIG. NO.	COPPER RANGE SMALL GROOVE	COPPER RANGE LARGE GROOVE	COPPER DIA. INCHES	DIM. A	DIM. B	DIM. D	DIM. T	DIM. C	WT. EA. LBS.
BSL - 020 - A	1	6 SOL.- 2STR.	2 SOL- 2/0 STR.	.162- .149	4 1/2"	2 1/2"	3/4"	1/4"	1 1/2"	1.2
BSL - 022 - B	2	6 SOL- 2 STR.	2 SOL.- 2/0 STR	.162- .149	5 3/4"	2 1/2"	5/8"	1/4"	1 1/2"	1.5
BSL - 022 - C	3	6 SOL- 2 STR.	2 SOL.- 2/0 STR	.162- .149	5 7/8"	2 1/2"	5/8"	1/4"	3"	1.8
BSL - 025 - B	2	6 SOL- 1/0 STR	2/0 SOL- 250	.204- .575	6 1/8"	2 3/4"	5/8"	1/4"	3"	1.4
BSL - 025 - C	3	6 SOL- 1/0 STR	2/0 SOL- 250	.204- .575	6 1/8"	2 3/4"	5/8"	1/4"	3"	2.0
BSL - 050 - B	2	1/0 SOL- 4/0	250- 500 MCM	.325 - .813	6 1/4"	2 3/4"	5/8"	3/8"	2"	2.1
BSL - 050 - C	3	1/0 SOL- 4/0	250- 500 MCM	.325- .813	6 1/4"	2 3/4"	5/8"	5/16"	3"	2.4

THE ABOVE BSL SERIES OF BRONZE ALLOY TERMINALS ARE FURNISHED WITH 3/8" DIAMETER HEX HEAD BOLTS. THESE CONNECTORS ARE USED FOR CONNECTING COPPER CONDUCTOR TO COPPER FLAT. THE REVERSIBLE FEATURE OF THIS CLAMP OFFERS THE CUSTOMER A WIDE RANGE OF CONDUCTOR COMBINATIONS. HARDWARE FURNISHED IS SILICON BRONZE OR STAINLESS STEEL. ANGLE CONNECTORS ARE AVAILABLE AND MAY BE REQUESTED BY ADDING THE SUFFIX "Y45" OR "Y90". (MINIMUM PRODUCTION RUN FOR THESE IS REQUIRED)

FOR TIN PLAT



TANK GROUND CONNECTORS

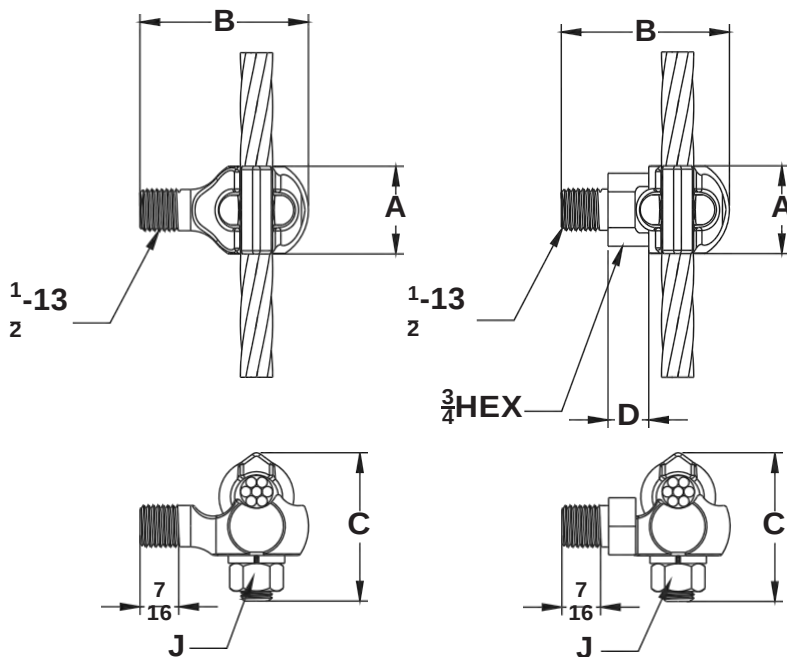
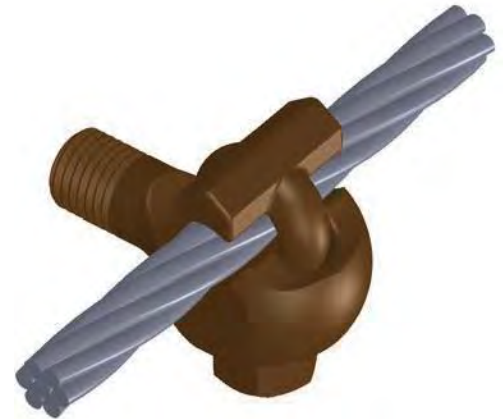


FIG.1

FIG.2

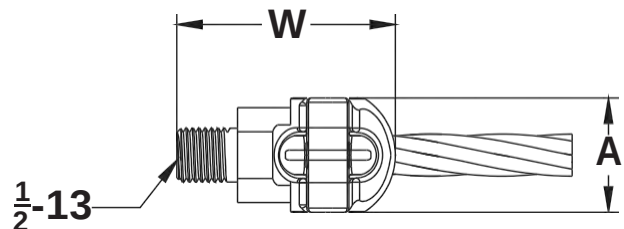
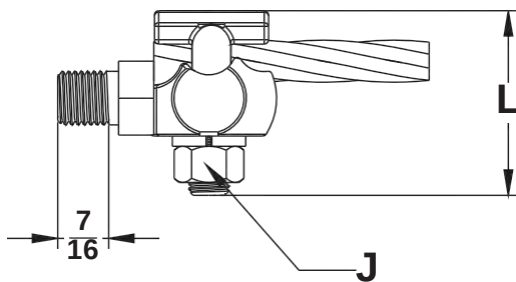


CATALOG NUMBER	COPPER CABLE RANGE	WIRE RANGE DIAMETER INCHES	FIG. NO.	LENGTH DIA. INCHES A	WIDTH DIA. INCHES B	HEIGHT DIA. INCHES C	BOLT J DIA.	WEIGHT PER 100 PIECES
UTGC – 1	10 SOL.– 1 STR.	.102" - .332"	1	7/8"	1-3/8"	1-1/2"	3/8"	20 LBS.
UTGC – 2/0	8 SOL.– 2/0 STR.	.128" - .419"	1	1"	1-17/32"	1-7/8"	3/8"	25 LBS.
UTGC – 250	6 SOL.– 250 STR.	.162" - .575"	2	1-1/4"	2"	2-3/8"	3/8"	34 LBS.

THE ABOVE UTGC SERIES OF TRANSFORMER GROUND CONNECTORS ARE CAST OF HIGH CONDUCTIVITY BRONZE. THESE CONNECTORS ARE FURNISHED WITH A 1/2 INCH 13 THREAD STUD WHICH WILL FIT ALL STANDARD EEI NEMA TRANSFORMERS. FIGURE 1 IN THIS SERIES HAS FLAT SIDES ON THE BODY ALLOWING THE USE OF AN OPEN END WRENCH FOR TIGHTENING. FIGURE "2" IS FURNISHED WITH A HEX HEAD SURFACE. TO OBTAIN ABOVE CONNECTORS WITH AN ALUMINUM BODY, ADD THE PREFIX "A" TO THE CATALOG NUMBER. TIN PLATING IS ALSO AVAILABLE BY ADDING THE SUFFIX "TP" TO THE CATALOG NUMBER.



LARGE BODY TANK GROUND CONNECTORS

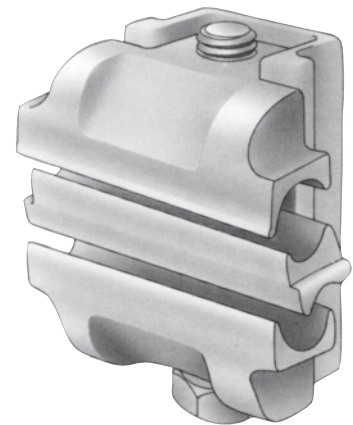
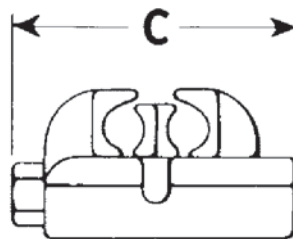
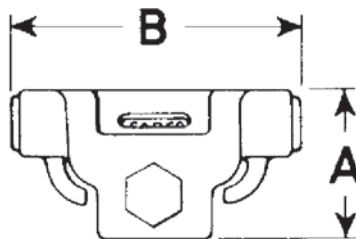


CATALOG NUMBER	COPPER CABLE RANGE	WIRE RANGE DIAMETER INCHES	DIA. INCHES A	DIA. INCHES L	DIA. INCHES W	BOLT J DIA. INCHES	WEIGHT PER 100 PIECES
UTGC – 1L	10 SOL.– 1 STR.	.102" - .332"	1-1/8"	1-5/8"	1-1/2"	3/8"	29 LBS.
UTGC – 2/0L	8 SOL.– 2/0 STR.	.128" - .419"	1-1/4"	1-7/8"	1-7/8"	3/8"	34 LBS.
UTGC – 250L	6 SOL.– 250 STR.	.162" - .575"	1-5/8"	2-3/8"	2-3/8"	1/2"	45 LBS.

THE ABOVE UTGC – L SERIES OF TRANSFORMER GROUND CONNECTORS ARE CAST OF HIGH CONDUCTIVITY BRONZE. THIS STYLE OFFERS A LARGER BODY FOR MORE HEAVY DUTY APPLICATIONS. THESE CONNECTORS ARE FURNISHED WITH A 1/2 INCH 13 THREAD STUD WHICH WILL FIT ALL STANDARD EEI - NEMA TRANSFORMERS. HARDWARE USED IS EITHER A SILICON BRONZE OR A STAINLESS STEEL MATERIAL.



ALUMINUM VISE CONNECTORS



SINGLE BOLT ALUMINUM CONNECTORS												Insulated Snap-On Cover
Cat. No.	CONDUCTOR RANGE								Approx. DIMENSIONS Inches			Cat. No.
	RUN				TAP							
	Max.		Min.		Max.		Min.					
	ACSR	Al.	ACSR	Al.	ACSR	Al. or Cu.	ACSR	Al. or Cu.	A	B	C	
AVC-9003L*	4	2 Sol.	6	8 Sol.	4	2 Sol.	6	8 Sol.	7/8	1/1/4	1-3/4	CAVC-9000B2
AVC-9002L	2	1 Str.	6	6 Sol.	2	1 Str.	6	12 Sol.	1-1/8	1-7/8	2-1/8	CAVC-9000B2
AVC-9020L	1/0	2/0 Str.	6	6 Sol.	1/0	2/0 Str.	6	6 Sol.	1-1/4	2-1/8	2-3/8	CAVC-9000B2
AVC-9040L	4/0	4/0 Str.	2	1 Str.	4/0	4/0 Str.	2	1 Str.	1-1/2	2-3/4	3-1/8	CAVC-9000B3
AVC-9041L	4/0	4/0 Str.	2	1 Str.	2/0	2/0 Str.	6	6 Sol.	1-1/2	3-3/8	3-1/8	CAVC-9000B3
AVC-9405L	3/0	3/0 Str.	4	4 Str.		4 Str.		12 Sol.	1-1/2	1-7/8	2-1/2	CAVC-9000B2
AVC-9400L	336,400	397,500	3/0	4/0 Str.	346,400	397,000	3/0	4/0 Str.	2-1/16	3-1/2	3-1/2	CAVC-9000B3
AVC-9401L	336,400	397,500	3/0	4/0 Str.	4/0	266,800	6	6 Sol.	2-1/16	4	3-1/2	CAVC-9000B3
AVC-9842L	666,000	800,000	4/0	266,800	2/0	2/0	6	6 Sol.	2	3-5/8	3-3/4	CAVC-9000B3
AVC-9843L	666,000	800,000	4/0	266,800	4/0	4/0	2	1 Str.	2	3-5/8	3-3/4	CAVC-9000B3

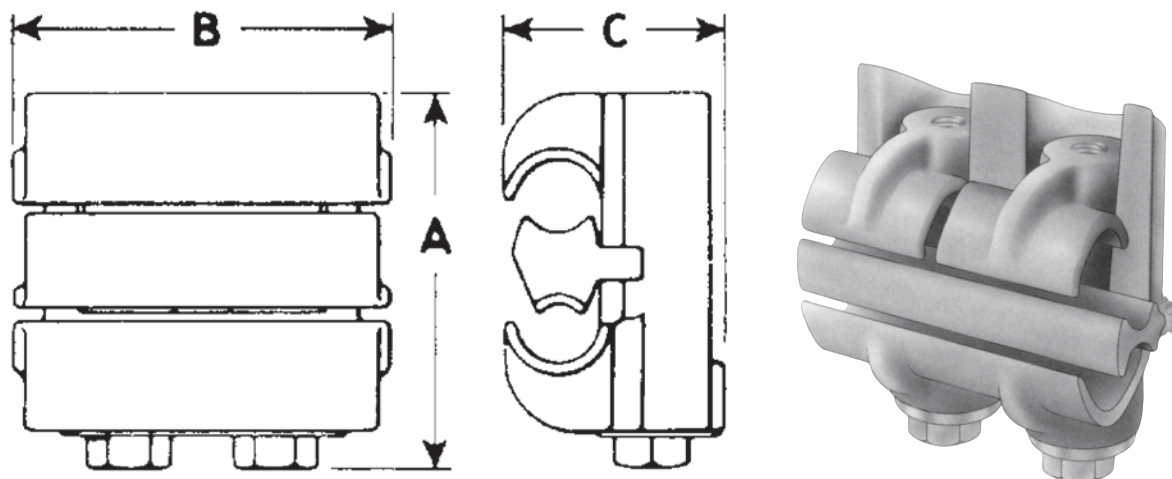
CONNECTORS FOR SPECIAL APPLICATIONS												
AVC-9402L	4/0	4/0	1/0	1/0	2	2		6 Sol.	7/8	1-1/4	1-3/4	CAVC-9000B2
AVC-9404L	4/0	4/0	4	4 Str.		10 Sol.		12 Sol.	1-1/8	1-7/8	2-1/8	CAVC-9000B2
AVC-9407L		477,000		3/0		2 Str.		6 Sol.	1-1/4	2-1/8	2-3/8	CAVC-9000B2
AVC-9408L		300,000		300,000		4 Str.		4 Str.	1-1/2	2-3/4	3-1/8	CAVC-9000B3
AVC-9844L	666,000	800,000	477,000	477,000	336,400	397,500	4/0	266,800	3	3	4-3/4	CAVC-9000B5
AVC-9954L	795,000	954,000		795,000		336,400		1/0	3	3	4-3/4	CAVC-9000B5

*26/7 ACSR *Stainless steel bolt.

All other connectors have high strength aluminum bolts with a special finish to prevent seizing and galling.



ALUMINUM VISE CONNECTORS



ALUMINUM CONNECTORS FOR ALUMINUM TO ALUMINUM

ALUMINUM CONNECTORS FOR ALUMINUM TO ALUMINUM											
Cat. No.	CONDUCTOR RANGE								Approx. DIMENSIONS Inches		
	RUN				TAP						
	Max.		Min.		Max.		Min.				
	ACSR	Al.	ACSR	Al.	ACSR	Al. or Cu.	ACSR	Al. or Cu.			
AVC-924GL	4/0	4/0 Str.	2	1 Str.	4/0	4/0 Str.	2	1 Str.	3-1/4	3-3/4	1-3/4
AVC-9520GL*	477,000	600,000	4/0	250,000	477,000	600,000	4/0	250,000	4	4-1/4	2-1/2
AVC-9521GL*	477,000	600,000	4/0	250,000	4/0	266,800	4	4 Str.	4	4-1/4	2-1/2
AVC-9820GL**	795,000	800,000	336,400	477,000	795,000	800,000	336,400	477,000	5-1/2	4-1/2	2-3/4
AVC-9821GL**	795,000	800,000	336,400	477,000	397,500	477,000	3/0	4/0	5-1/2	4-1/2	2-3/4
AVC-9100GL	1,272,000	1,500,000	636,000	795,000	1,272,000	1,500,000	636,000	795,000	5-3/4	6-1/4	2-7/8
AVC-9101GL	1,272,000	1,500,000	636,000	795,000	636,000	795,000	336,400	336,400	5-3/4	6-1/4	2-7/8



INDEX

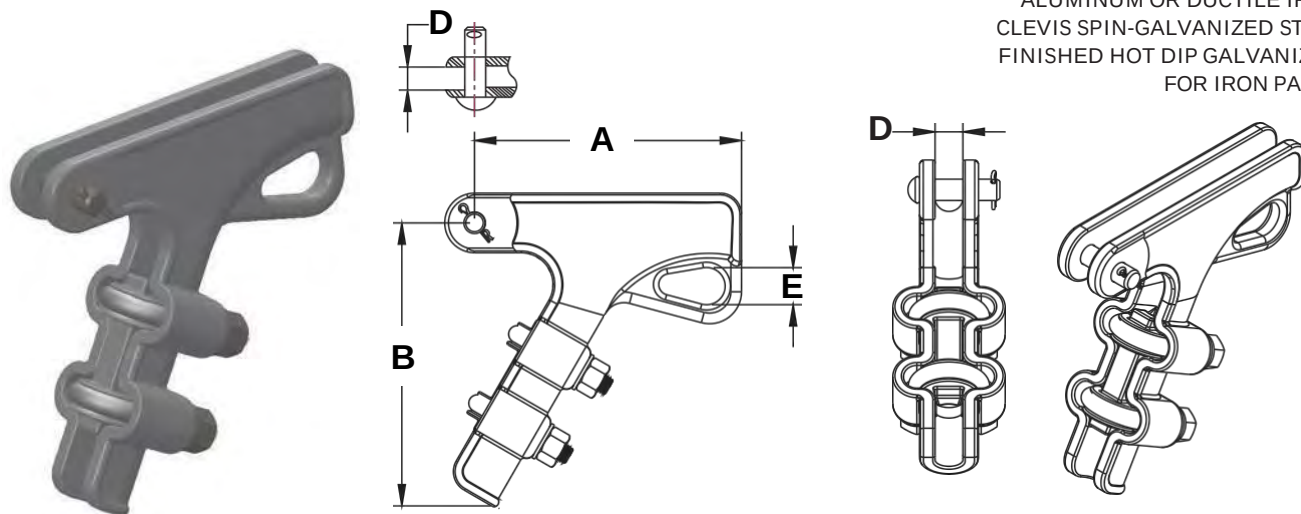
SECTION 3 - DEADEND AND SUSPENSION CLAMPS

QUADRANT DEADEND CLAMPS -----	3-1
ALUMINUM STRAIGHT DEADEND CLAMPS-----	3-2
FERROUS STRAIGHT DEADEND CLAMPS -----	3-3
SIDE OPENING DEADEND CLAMPS-----	3-4
SIDE OPENING DEADEND CLAMPS-----	3-5
STRAIN DEADEND CLAMPS -----	3-6
SUSPENSION CLAMPS-----	3-7
ANGLE SUSPENSION CLAMPS -----	3-8
THIMBLE CLEVIS PULLING EYE TYPE -----	3-9
LINE POST TRUNNION CLAMPS -----	3-10
DUCTILE IRON UNIVERSAL DEADENDS -----	3-11



QUADRANT DEADEND CLAMPS

MATERIAL BODY AND KEEPER
ALUMINUM OR DUCTILE IRON
CLEVIS SPIN-GALVANIZED STEEL
FINISHED HOT DIP GALVANIZED
FOR IRON PARTS

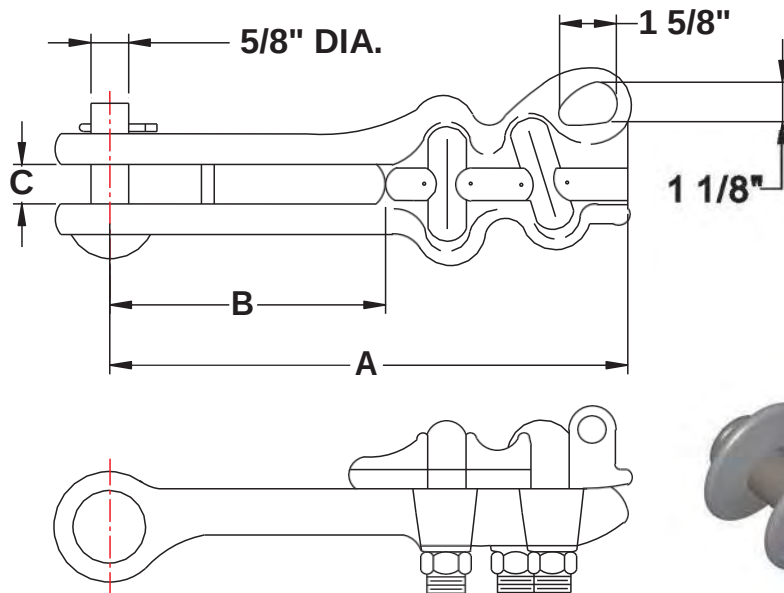


CATALOG NUMBER	CABLE DIAMETER	CABLE RANGE	DIM. A	DIM. B	DIM. D	DIM. E	ULTIMATE STRENGTH	WEIGHT /100(LBS)	BODY TYPE
AQC52N	.18" - .52"	#6 - #3/0 AL. #6 - #3/0 ACSR	4"	4 7/8"	11/16"	7/8"	8,000 LBS.	122	AL
AQC57N	.25" - .57"	#2 - #4/0 AL. #2 - #4/0 ACSR	5 1/2"	5 1/8"	3/4"	1"	10,000 LBS.	202	AL
AQC64N	.20" - .64"	#4 - #300 AL. #6 - #266.8 ACSR	4 5/8"	5"	3/4"	1"	15,000 LBS.	231	AL
AQC78N	.25" - .743"	#2/0 - #450 AL. #1/0 - #397 ACSR	6 1/2"	6 1/8"	13/16"	1 1/8"	15,000 LBS.	250	AL
AQC88N	.52" - .88"	#3/0 - #556.5 AL. #3/0 - #556.5 ACSR	6 3/8"	7"	15/16"	1"	15,000 LBS.	258	AL
AQC100N	.50" - 1.00"	#4/0 - #715 AL. #3/0 - #636 ACSR	9 7/8"	8 3/4"	1 1/16"	1 1/4"	18,000 LBS.	480	AL
MD46N	.18" - .46"	3/16" - 3/8" GALV. STEEL #6 STR.- #4/0 SOL. COPPER	6"	5 1/2"	11/16"	7/8"	15,000 LBS.	210	FE
MD55N	.22" - .55"	1/4" - 1/2" GALV. STEEL #4 STR.- #4/0 STR. COPPER	8"	8 5/8"	11/16"	1 1/4"	19,000 LBS.	490	FE

THE ABOVE QUADRANT DEADEND CLAMPS ARE OFFERED IN ALUMINUM AND MALLEABLE IRON. THE MALLEABLE CLAMPS "MD" SERIES CAN BE USED ON COPPER OR COPPERWELD CONDUCTORS. FOR SOCKET FITTING CHANGE THE SUFFIX "N" TO THE SUFFIX "S" IN THE CATALOG NUMBER. FOR CLEVIS FITTING CHANGE THE SUFFIX "N" TO THE SUFFIX "C".. THE IRON PARTS ARE HOT DIPPED GALVANIZED TO ASTM A153. FOR OTHER CHOICES PLEASE REFER TO PAGE 3-6



ALUMINUM STRAIGHT DEADEND CLAMPS



CATALOG NUMBER	CLAMPING RANGE	CONDUCTOR RANGE	DIM. A	DIM. B	DIM. C	U-BOLTS & SIZE	ULTIMATE STRENGTH	WEIGHT /100(LBS)
SAC – 48 – N	.18" - .502"	#6 – #3/0 AL. #6 – #3/0 ACSR	7 5/8"	3 7/8"	11/16"	2 – 3/8"	7,000 LBS.	137
SAC – 51 – N	.18" - .51"	#6 – #3/0 AL. #6 – #3/0 ACSR	7 5/8"	3 1/4"	11/16"	2 – 1/2"	7,000 LBS.	139
SAC – 60 – N	.19" - .60"	#4 – #266.8 AL. #6 – #266.8 ACSR	8 6/7"	3 3/4"	11/16"	2 – 1/2"	8,000 LBS.	238
SAC – 60L – N	.19" - .60"	#4 – #266.8 AL. #6 – #266.8 ACSR	10 5/8"	6"	3/4"	2 – 1/2"	8,000 LBS.	258
SAC – 88 – N	.31" - .88"	#1 – #600 AL. #2 – #477 ACSR	9"	4 3/4"	31/32"	2 – 1/2"	10,000 LBS.	241
SAC – 88L – N	.31" - .88"	#1 – #600 AL. #2 – #477 ACSR	12"	7 1/2"	15/16"	2 – 1/2"	10,000 LBS.	253
SAC – 116 – N	.31" - 1.16"	#1 – #900 AL. #2 – #556 ACSR	10 1/2"	5 1/2"	1"	2 – 1/2"	15,000 LBS.	344
SAC – 130 – N	.64" - 1.30"	#300 – #1272 AL. #266.8 – #1113 ACSR	10 1/2"	5 1/2"	1"	2 – 1/2"	15,000 LBS.	446

THE ABOVE DEADEND CLAMPS ARE USED PRIMARILY FOR DISTRIBUTION AND LIGHT TRANSMISSION WORK. FOR SOCKET FITTING CHANGE THE SUFFIX "N" TO THE SUFFIX "S" IN THE CATALOG NUMBER. FOR CLEVIS FITTING CHANGE THE SUFFIX "N" TO THE SUFFIX "C".

THE MATERIAL ON THE ABOVE STRAIGHT LINE DEADEND CLAMPS IS AS FOLLOWS :

BODY AND KEEPER : A356 – T6 ALUMINUM ALLOY

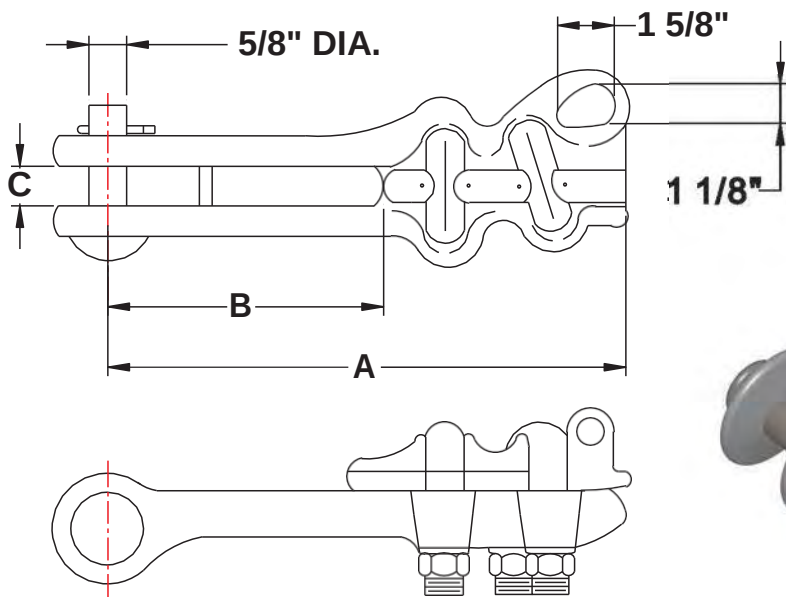
CLEVIS PIN AND BOLTS : GALVANIZED STEEL

COTTER PIN : STAINLESS STEEL

FINISH : HOT DIPPED GALVANIZED FOR IRON PARTS



FERROUS STRAIGHT DEADEND CLAMPS



CATALOG NUMBER	CLAMPING RANGE	CONDUCTOR RANGE COPPER / ALUMINUM	DIM. A	DIM. B	DIM. C	U-BOLTS & SIZE	ULTIMATE STRENGTH	WEIGHT /100(LBS)
SFC- 48 - N	.18" - .502"	#6 - #3/0 MCM	7 5/8"	3 7/8"	11/16"	2 - 3/8"	7,000 LBS.	355
SFC- 51 - N	.18" - .51"	#6 - #3/0 MCM	7 5/8"	3 1/4"	11/16"	2 - 1/2"	7,000 LBS.	404
SFC- 60 - N	.19" - .60"	#4 - #266 MCM	8 3/4"	3 3/4"	11/16"	2 - 1/2"	8,000 LBS.	692
SFC- 88 - N	.31" - .88"	#1/0 - #500 MCM	9"	4 3/4"	31/32"	2 - 1/2"	10,000 LBS.	701
SFC- 130 - N	.64" - 1.30"	#266 - #1250 MCM	10 1/2"	5 1/2"	1"	2 - 1/2"	15,000 LBS.	1297

THE ABOVE DEADEND CLAMPS ARE USED PRIMARILY FOR DISTRIBUTION AND LIGHT TRANSMISSION WORK.
FOR SOCKET FITTING CHANGE THE SUFFIX "N" TO THE SUFFIX "S" IN THE CATALOG NUMBER.
FOR CLEVIS FITTING CHANGE THE SUFFIX "N" TO THE SUFFIX "C".

THE MATERIAL ON THE ABOVE STRAIGHT LINE DEADEND CLAMPS IS AS FOLLOWS :

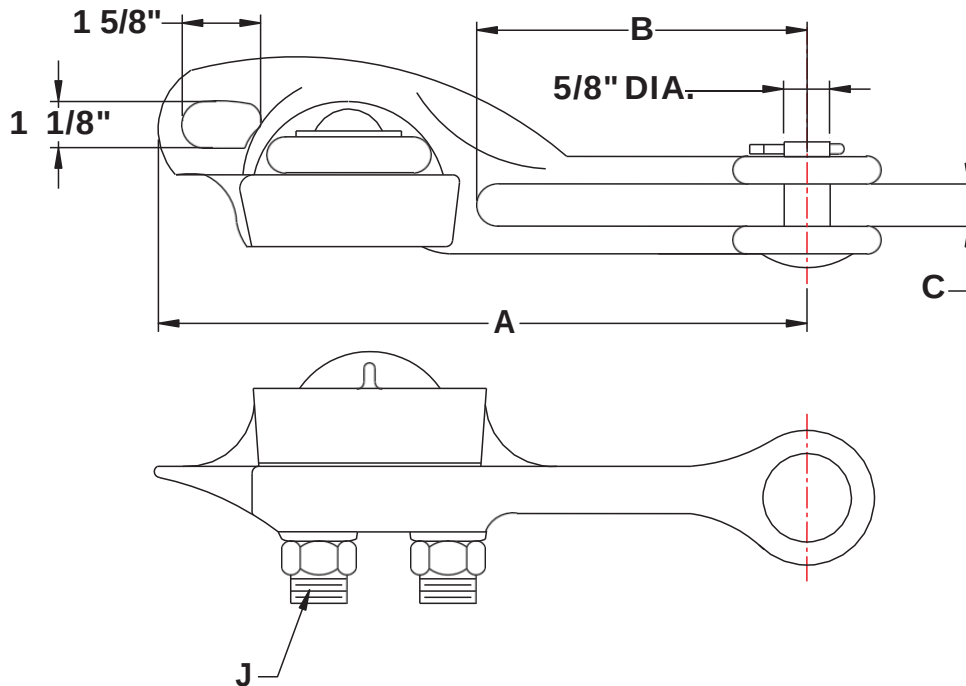
BODY AND KEEPER : DUCTILE CAST IRON HOT DIPPED GALVANIZED TO ASTM A153

CLEVIS PIN AND BOLTS : GALVANIZED STEEL HOT DIPPED GALVANIZED TO ASTM A153

COTTER PIN : STAINLESS STEEL



SIDE OPENING DEADEND CLAMPS



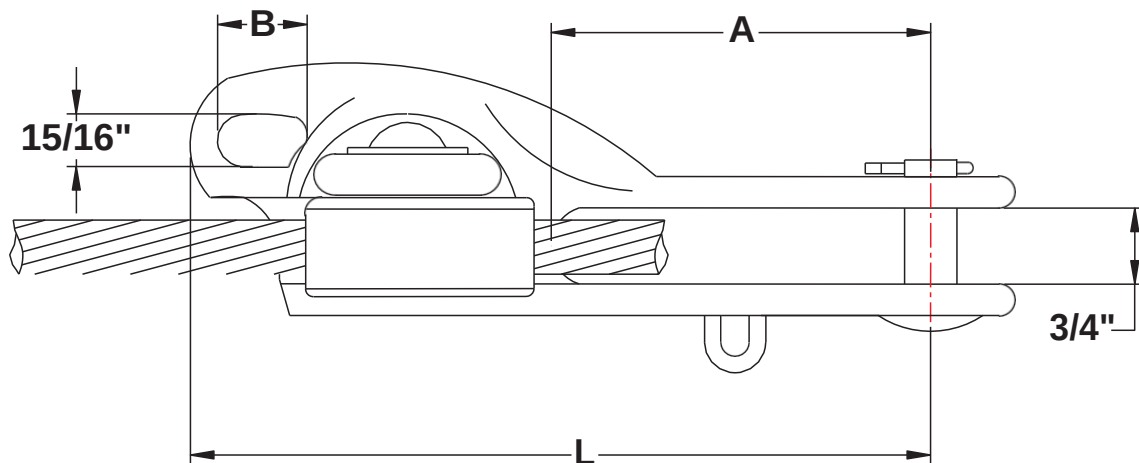
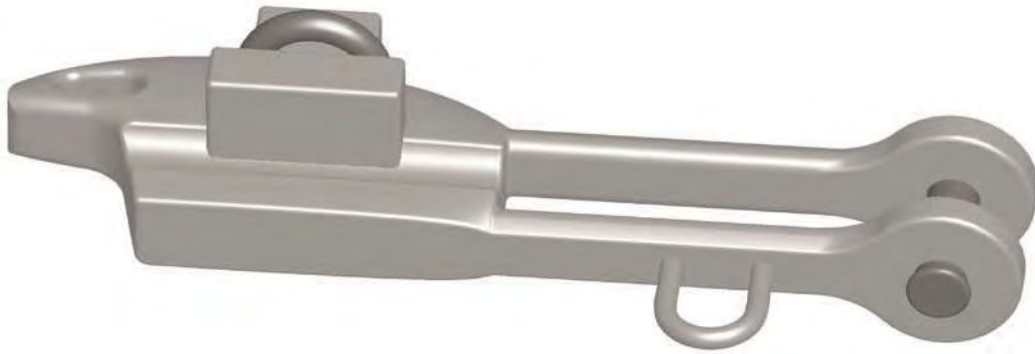
CATALOG NUMBER	CONDUCTOR RANGE INCHES AWG	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "J"	MINIMUM ULTIMATE STRENGTH BODY SAG. EYE	WT. PER 100
SODC- 47	.19 – .47 #6–#2 ACSR #4 – #3/0 AL.	7.79"	3.64"	3/4"	3/8"	7000 LBS. 4000 LBS.	123 LBS.
SODC- 57	.25 – .57 #4–#4/0 ACSR #2 – #4/0 AL.	8 3/8"	4 1/2"	3/4"	3/8"	8000 LBS. 5000 LBS.	176 LBS.
SODC- 70	.31 – .70 #2– #336 ACSR #1 – #350 AL.	9.10"	4.30"	0.72"	3/8"	9000 LBS. 6000 LBS.	195 LBS.
SODC- 82	.31 – .82 #2– #477 ACSR #1 – #477 AL.	10 3/32"	5"	7/8"	1/2"	9000 LBS. 6000 LBS.	305 LBS.
SODC- 88	.46 –.88 #2/0–#556 ACSR #3/0– #556 AL.	10 1/4"	5"	1"	1/2"	10000 LBS. 6000 LBS.	323 LBS.
SODC- 116	.68 – 1.16 #336–#954 ACSR #397.5 – 1000 AL.	12"	7 1/4"	1"	1/2"	12000 LBS. 8000 LBS.	380 LBS.

THE ABOVE SIDE OPENING DEADEND CLAMPS ARE PRIMARILY USED FOR HOT LINE DEAD-ENDING.
EACH IS FURNISHED WITH A SPRING LOADED KEEPER, WHICH IS IN AN OPEN POSITION FOR INSTALLATION .
FOR A SOCKET FITTING ADD SUFFIX : "S"
FOR A CLEVIS FITTING ADD SUFFIX : "C"

MATERIAL : BODY & KEEPER – ALUMINUM ALLOY A – 356 – T
HARDWARE – HOT DIPPED GALVANIZED STEEL
COTTER PIN & SPRING – STAINLESS STEEL



SIDE OPENING DEADEND CLAMPS



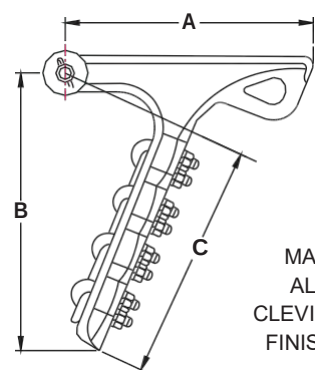
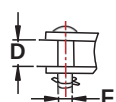
CATALOG NUMBER	CONDUCTOR RANGE		DIM. "L"	DIM. "A"	DIM. "B"	DIM. "J"	MINIMUM ULTIMATE STRENGTH		WT. PER 100
	INCHES	AWG					BODY	SAG. EYE	
SODC- 51E	.19- .51	#6- #3/0 ACSR #4 - #3/0 AL.	8 1/2"	3 3/4"	1"	1/2"	8000 LBS.	6000 LBS.	123 LBS.

THE ABOVE SIDE OPENING DEADEND CLAMP IS PRIMARILY USED FOR HOT LINE DEAD-ENDING.
EACH IS FURNISHED WITH A SPRING LOADED KEEPER, WHICH IS IN AN OPEN POSITION FOR INSTALLATION .
AN INSTALLATION EYE IS ALSO FURNISHED, SO CLAMP CAN BE HANDLED WITH A SHOTGUN STICK.
FOR TIN PLATED CLAMPS ADD THE SUFFIX - "TP"
FOR A SOCKET FITTING ADD SUFFIX : "S"
FOR A CLEVIS FITTING ADD SUFFIX : "C"

MATERIAL : BODY & KEEPER - ALUMINUM ALLOY A356 - T6
HARDWARE - HOT DIPPED GALVANIZED STEEL TO ASTM A153
COTTER PIN & SPRING - STAINLESS STEEL



STRAIN DEADEND CLAMPS



MATERIAL BODY AND KEEPER
ALUMINUM OR DUCTILE IRON
CLEVIS SPIN-GALVANIZED STEEL
FINISHED HOT DIP GALVANIZED
FOR IRON PARTS



CATALOG NUMBER	CLAMPING RANGE	DIM. A	DIM. B	DIM. C	DIM. D	DIM. F	U BOLTS NO. SIZE	ULTIMATE STRENGTH	BODY TYPE
ASC – 59 – N	.20" - .59"	8"	7 3/8"	6 1/2"	5/8"	11/16"	3 1/2"	15,000 LBS.	AL
ASC – 64 – N	.20" - .64"	9"	7 1/4"	6"	5/8"	11/16"	3 1/2"	15,000 LBS.	AL
ASC – 70 – N	.31" - .708"	9"	8"	7 1/2"	5/8"	5/8"	3 1/2"	15,000 LBS.	AL
ASC – 75 – N	.30" - .75"	10 1/4"	8 1/2"	7 1/8"	1"	5/8"	4 1/2"	20,000 LBS.	AL
ASC – 86 – N	.48" - .86"	11 1/2"	12"	10"	1"	5/8"	4 1/2"	23,000 LBS.	AL
ASC – 94 – N	.46" - .94"	11 1/4"	9 3/8"	7 1/2"	1"	5/8"	4 1/2"	25,000 LBS.	AL
ASC – 100 – N	.472" - 1.00"	11 1/2"	10 3/4"	8"	1 1/16"	5/8"	4 1/2"	25,000 LBS.	AL
ASC – 120 – N	.50" - 1.20"	13 1/8"	12"	9"	1 1/8"	3/4"	5 1/2"	30,000 LBS.	AL
ASC – 142 – N	.70" - 1.55"	14"	13 1/8"	10 1/2"	1 7/16"	3/4"	5 5/8"	35,000 LBS.	AL
ASC – 147 – N	.71" - 1.47"	14 1/2"	12 1/4"	10 1/2"	1 1/2"	3/4"	6 5/8"	40,000 LBS.	AL
ASC – 185 – N	1.39" - 1.85"	17"	18"	12"	1 11/16"	1"	5 5/8"	50,000 LBS.	AL
MSC – 65 – N	.20" - .65"	5 7/8"	—	4 5/8"	11/16"	5/8"	2 1/2"	15,000 LBS.	FE
MSC – 68 – N	.20" - .68"	8"	—	7 3/8"	11/16"	5/8"	3 1/2"	18,000 LBS.	FE
MSC – 84 – N	.36" - .84"	10 3/4"	10 3/8"	8 7/16"	15/16"	5/8"	4 1/2"	30,000 LBS.	FE

FOR SOCKET FITTING CHANGE THE SUFFIX "N" TO "S" IN THE CATALOG NUMBER
FOR CLEVIS FITTING CHANGE "N" TO "C".

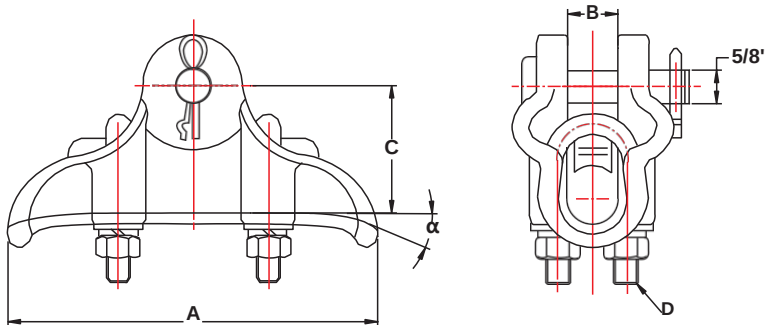
THE MATERIAL FOR THE TYPE "ASC" CLAMPS IS A356 – T6 ALUMINUM ALLOY.

THE MATERIAL FOR THE TYPE "MSC" CLAMP IS DUCTILE CAST IRON.

ALL IRON PARTS ARE HOT DIPPED GALVANIZED TO ASTM A153.



SUSPENSION CLAMPS



MATERIAL: BODY AND KEEPER ALUMINUM
ALLOY. HARDWARE-HOT DIP GALVANIZED
STEEL. SOCKETS AND CLEVIS-M.C.I
HOT DIP GALVANIZED
LOCKING PIN-STAINLESS STEEL



CATALOG NUMBER	CLAMPING RANGE	DIM. A	DIM. B	DIM. C	DIM. D	ULTIMATE STRENGTH	APPROX. WEIGHT PER 100	MATERIAL
ALSC – 62 – N	.26" - .62"	6 3/4"	7/8"	2 2/7"	1/2"	17,000 LBS.	210 LBS.	AL
ALSC – 86 – N	.40" - .86"	7 1/2"	1"	2 5/9"	1/2"	18,000 LBS.	263 LBS.	AL
ALSC – 104 – N	.50" - 1.04"	8 1/8"	1 1/8"	2 3/4"	1/2"	25,000 LBS.	250 LBS.	AL
ALSC – 119 – N	.50" - 1.19"	8"	1 3/8"	2 1/2"	1/2"	25,000 LBS.	280 LBS.	AL
ALSC – 139 – N	.90" - 1.39"	8 7/8"	1 1/2"	2 7/8"	1/2"	25,000 LBS.	320 LBS.	AL
ALSC – 147 – N	.90" - 1.47"	8 3/4"	1 9/16"	2 7/8"	1/2"	25,000 LBS.	350 LBS.	AL
ALSC – 162 – N	1.10" - 1.62"	9 1/2"	1 13/16"	3 1/8"	1/2"	25,000 LBS.	380 LBS.	AL
ALSC – 182 – N	1.25" - 1.82"	10"	1 15/16"	3 1/6"	1/2"	25,000 LBS.	510 LBS.	AL
ALSC – 204 – N	1.40" - 2.04"	10 1/2"	2 1/4"	3 1/2"	5/8"	25,000 LBS.	490 LBS.	AL
ALSC – 252 – N	2.00" - 2.52"	12"	2 3/4"	4 1/4"	5/8"	30,000 LBS.	900 LBS.	AL
MLSC – 46 – N	.20" - .46"	5 5/8"	7/8"	2"	5/8"	16,000 LBS.	215 LBS.	FE
MLSC – 60 – N	.20" - .60"	5 3/4"	7/8"	2 1/8"	5/8"	16,000 LBS.	265 LBS.	FE
MLSC – 70 – N	.20" - .70"	6 3/4"	3/4"	2 1/4"	5/8"	16,000 LBS.	290 LBS.	FE
MLSC – 82 – N	.30" - .83"	7 1/2"	13/16"	2 3/8"	5/8"	18,000 LBS.	325 LBS.	FE
MLSC – 104 – N	.30" - .70"	7 1/8"	13/16"	2 1/4"	5/8"	18,000 LBS.	325 LBS.	FE

FOR A SOCKET FITTING CHANGE THE SUFFIX "N" IN THE PART NUMBER TO AN "S".

FOR CLEVIS FITTING CHANGE THE SUFFIX "N" TO A "C".

THE MATERIAL ON THE TYPE "ALSC" CLAMPS IS A356 – T6 ALUMINUM ALLOY.

THE MATERIAL ON THE TYPE "MLSC" CLAMPS IS DUCTILE CAST IRON.

ALL HARDWARE IS STEEL HOT DIPPED GALVANIZED TO ASTM A 153. COTTER PIN IS STAINLESS STEEL.



ANGLE SUSPENSION CLAMPS

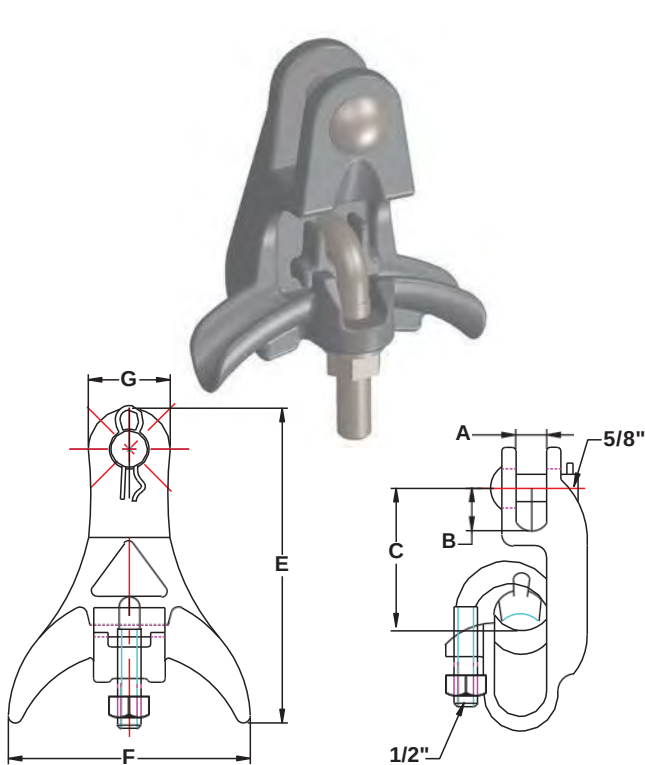


FIG. 1

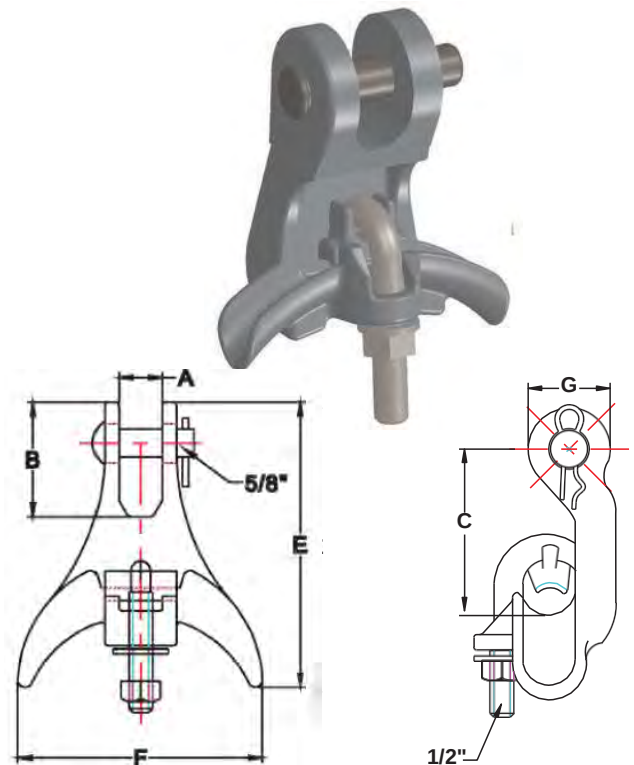


FIG. 2

CATALOG NUMBER	FIG. NO.	CLAMP RANGE DIA.	DIM. A	DIM. B	DIM. C	DIM. E	DIM. F	DIM. G	ULTIMATE STRENGTH	MATERIAL
AASC-60-90	1	.16" - .60"	11/16"	15/16"	2 1/8"	4 3/8"	4 3/16"	1 1/2"	7000 LBS.	AL
AASC-60	2	.16" - .60"	11/16"	1 1/8"	2 1/8"	4 3/16"	4 3/16"	1 1/16"	7000 LBS.	AL
AASC-75-90	1	.198" - .732"	5/7"	1"	3 3/38"	4 7/8"	4 2/7"	1 1/2"	7000 LBS.	AL
AASC-75	2	.198" - .732"	11/16"	1 1/8"	2-7/8"	4"	4 1/4"	1 1/2"	7000 LBS.	AL
AASC-125-90	1	.43" - 1.25"	13/16"	1 1/8"	3"	4 1/8"	5 1/4"	1 1/2"	12000 LBS.	AL
AASC-125	2	.43" - 1.25"	11/16"	1 1/8"	4"	4 3/4"	5 1/4"	1 1/2"	12000 LBS.	AL
AASC-166-90	1	.75" - 1.66"	3/4"	1 1/8"	3"	4"	7 1/4"	1 1/2"	18000 LBS.	AL
AASC-166	2	.75" - 1.66"	13/16"	1 1/8"	6"	7 1/8"	4"	1 1/2"	18000 LBS.	AL
FASC-60-90	1	.16" - .60"	1 1/6"	1 1/8"	2 1/8"	3"	4 3/16"	1 1/2"	12000 LBS.	FE
FASC-60	2	.16" - .60"	11/16"	1 1/8"	2 1/8"	3 1/4"	4 3/16"	1 1/2"	12000 LBS.	FE
FASC-166-90	1	.75" - 1.66"	3/4"	1 1/8"	3"	4"	7 1/4"	1 1/2"	20000 LBS.	FE
FASC-166	2	.75" - 1.66"	13/16"	1 1/8"	6"	7 1/8"	4"	1 1/2"	20000 LBS.	FE

THE ABOVE ANGLE SUSPENSION CLAMPS ARE OFFERED IN EITHER ALUMINUM "AASC" SERIES OR IN DUCTILE IRON "FASC" SERIES. THE ONE PIECE DESIGN ALLOWS THE INSTALLER TO PERFORM HOT LINE WORK.

MATERIAL : "AASC" SERIES - ALUMINUM ALLOT 356 - T6

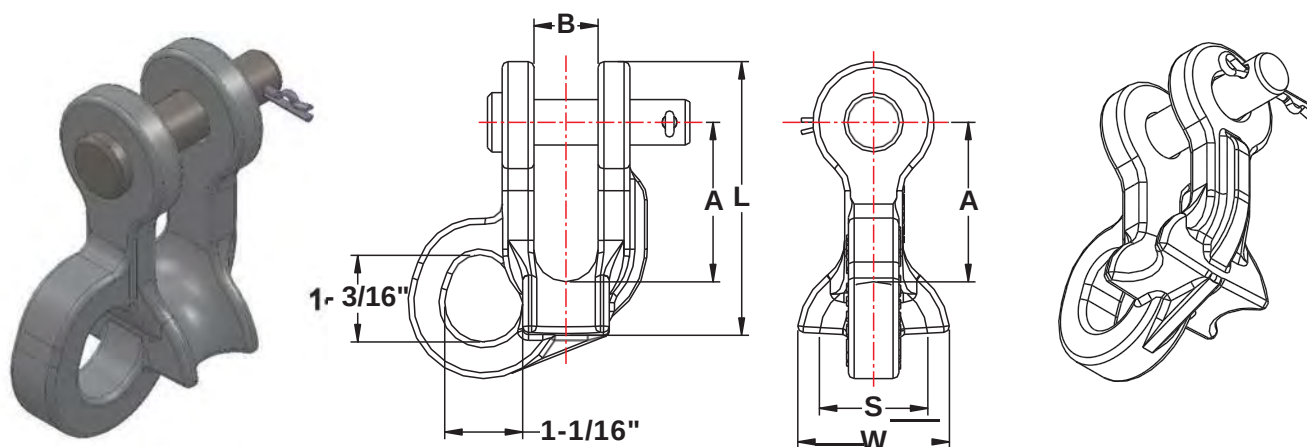
"FASC" SERIES - DUCTILE IRON

HARDWARE AND DUCTILE IRON CLAMPS ARE HOT DIPPED GALVANIZED TO ASTM 153

COTTER KEY - STAINLESS STEEL



THIMBLE CLEVIS PULLING EYE TYPE



CATALOG NUMBER	CONDUCTOR RANGE ACSR	GUY WIRE RANGE	DIM. L	DIM. A	DIM. B	DIM. S	DIM. W	DIM. PD	MATERIAL
PTC- 75A	#6 – #336	3/16" - 5/16"	3 5/8"	1 15/16"	3/4"	1 1/2"	2 1/8"	5/8"	AL
PTC- 88A	#6 – #477	3/16" - 3/8"	3 5/8"	1 15/16"	7/8"	1 1/2"	2 1/8"	5/8"	AL
PTC- 100A	#6 – #650	3/36" - 3/8"	4 1/4"	2 1/4"	1"	1 3/4"	2 5/8"	5/8"	AL
PTC- 75F	#6 – #336	3/16" - 1/2"	3 3/4"	1 15/16"	3/4"	1 1/2"	2 1/8"	5/8"	FE
PTC- 88F	#6 – #477	3/16" - 9/16"	3 5/8"	1 15/16"	7/8"	1 1/2"	2 1/8"	5/8"	FE
PTC- 88LF	#6 – #477	3/16" - 9/16"	4 1/4"	1 15/16"	7/8"	1 1/2"	2 1/8"	3/4"	FE
PTC- 100F	#6 – #650	3/16" - 5/8"	4 1/4"	2 1/4"	1"	1 3/4"	2 5/8"	3/4"	FE

CAT. NO.	ULTIMATE STRENGTH THIMBLE	ULTIMATE STRENGTH EYE
PTC- 75A	10000 LBS.	6000 LBS.
PTC- 88A	12000 LBS.	7000 LBS.
PTC- 100A	15000 LBS.	9000 LBS.
PTC- 75F	25000 LBS.	15000 LBS.
PTC- 88F	20000 LBS.	12000 LBS.
PTC- 88LF	35000 LBS.	21000 LBS.
PTC- 100F	40000 LBS.	24000 LBS.

MATERIAL : FOR "A" TYPE CLEVIS – BODY: ALUMINUM ALLOY 356 – T6

"F" TYPE CLEVIS – DUCTILE IRON

CLEVIS PIN : STEEL HOT DIPPED GALVANIZED TO ASTM A 153

COTTER KEY : STAINLESS STEEL



LINE POST TRUNNION CLAMPS

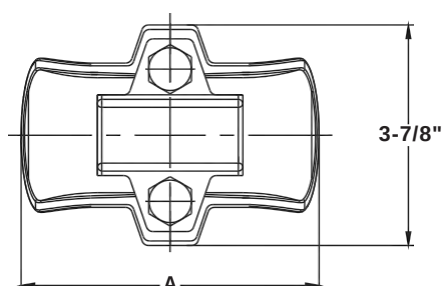


FIG. 1

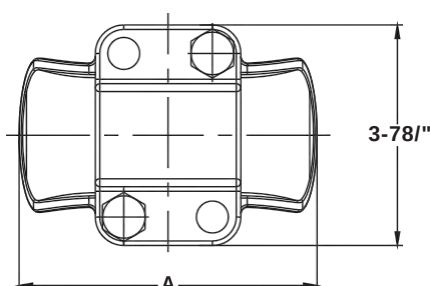
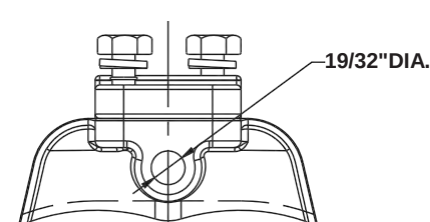
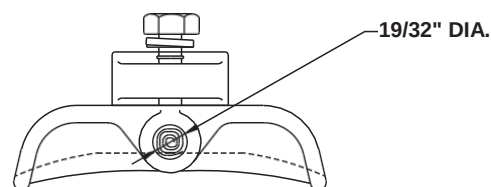


FIG. 2



CATALOG NUMBER	FIG. NO.	CLAMP BODY TYPE	CLAMPING RANGE INCHES	CONDUCTOR RANGE ACSR	CONDUCTOR RANGE ALL ALUMINUM	DIMENSION A INCHES	APPROX. WEIGHT PER 100
LPC – 57	1	ALUMINUM	.23 – .57	#4 – #4/0	#4 – #4/0	5 1/4	81 LBS.
LPC – 86	1	ALUMINUM	.35 – .86	#1/0 – #477 26/7	#1/0 – #556	5 1/4	95 LBS.
LPC – 118	1	ALUMINUM	.50 – 1.18	#3/0 – #954 54/7	#4/0 – #1033	5 1/4	98 LBS.
LPC – 150	1	ALUMINUM	.93 – 1.50	#556.5 – #1510.5	#715.5 – #1590	5 1/4	110 LBS.
LPC – 200	2	ALUMINUM	1.50 – 2.00	#605 – #1113	#795 – #1192.5	5 1/4	172 LBS.
FLPC– 57	1	DUCTILE IRON	.23 – .57	#4 – #4/0	—————	5 1/4	250 LBS.
FLPC– 86	1	DUCTILE IRON	.35 – .86	#1/0 – #477 26/7	—————	5 1/4	260 LBS.
FLPC– 118	1	DUCTILE IRON	.50 – 1.18	#3/0 – 715.5 26/7	—————	5 1/4	273 LBS.
FLPC– 150	1	DUCTILE IRON	.93 – 1.50	#556.5– 1510.5	—————	5 1/4	295 LBS.
FLPC– 200	2	DUCTILE IRON	1.50 – 2.00	#605 – #1113	—————	5 1/4	310 LBS.

THE ABOVE TRUNNION CLAMPS ARE USED WITH CLAMP TOP LINE POST INSULATORS. THE REVERSIBLE KEEPER GIVES THE INSTALLER A WIDE CONDUCTOR RANGE. EACH CLAMP CONTAINS A RIV SUPPRESSOR SPRING.

MATERIAL FOR "LPC" TYPE : BODY & KEEPER-ALUMINUM ALLOY 356-T6.

MATERIAL FOR "FLPC" TYPE : DUCTILE IRON HOT DIPPED GALVANIZED TO ASTM A153.



DUCTILE IRON UNIVERSAL DEADENDS



CATALOG NUMBER	CLAMPING RANGE	DIMENSION A	DIMENSION B	ULTIMATE BODY STRENGTH	APPROX. WEIGHT PER 100
MUD – 50 – N	.12" - .50"	11/16"	4 5/16"	10,000 LBS.	240 LBS.
MUD – 53 – N	.16" - .53"	13/16"	4 1/4"	14,000 LBS.	390 LBS.

FOR SOCKET FITTING ADD THE SUFFIX "S" TO THE CATALOG NUMBER.

THE MATERIAL ON THE ABOVE UNIVERSAL DEADEND CLAMPS IS AS FOLLOWS :

BODY AND KEEPER : DUCTILE CAST IRON HOT DIPPED GALVANIZED TO ASTM A153.

CLEVIS PIN AND BOLTS : HOT DIPPED GALVANIZED STEEL

COTTER PIN : STAINLESS STEEL



INDEX

SECTION 4 - HARDWARE

GALVANIZED ANCHOR RODS-----	4-1
EXPANDING ANCHORS -----	4-1A
ANCHOR & CHAIN SHACKLES-----	4-2
GUY ATTACHMENTS FLAT HEAD TYPE-----	4-3
GUY ATTACHMENTS-----	4-4
COMBINATION ATTACHMENTS & POLE EYE PLATES -----	4-5
ADJUSTABLE POLE BANDS-----	4-6
CARRIAGE BOLTS-----	4-7
DOUBLE ARMING BOLTS -----	4-8A
DOUBLE ARMING BOLTS-----	4-8B
STAINLESS STEEL DOUBLE ARMING BOLTS-----	4-9
GALVANIZED MACHINE BOLTS -----	4-10
STAINLESS STEEL MACHINE BOLTS -----	4-11
GALVANIZED OVAL EYE BOLTS-----	4-12
STAINLESS STEEL OVAL EYE BOLTS-----	4-13
UPSET SPOOL BOLTS -----	4-14
THIMBLE EYE BOLTS-----	4-15
STEEL BRACES FLAT & ANGLE-----	4-16
CROSSARM MOUNTING BRACKETS-----	4-17
POLE TOP BRACKETS-----	4-18
POLE TOP BRACKETS-----	4-18A
INSULATOR BRACKETS SIDE POST TYPE -----	4-19
INSULATOR BRACKETS SIDE POST TYPE-----	4-19A
INSULATOR BRACKETS SIDE POST TYPE-----	4-19B
INSULATOR BRACKETS SIDE POST TYPE-----	4-19C
STANDOFF BRACKETS -----	4-19D
SINGLE OR DOUBLE CONDUIT SUPPORT BRACKET -----	4-20



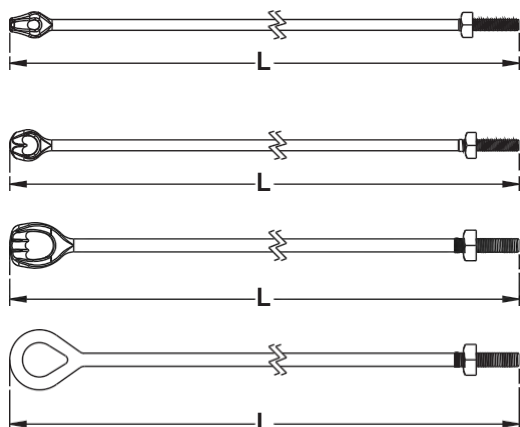
CROSSOVER CLAMPS-----	4-21
CABLE CLAMPS GUY & SUSPENSION -----	4-22
CLEVIS— DEADENDING& INSULATED STYLE-----	4-23
CLEVIS—SECONDARY & SWINGING STYLE -----	4-24
BOLT & THIMBLE EYELETS-----	4-25
OVAL & THIMBLE EYE NUTS -----	4-26
CLEVIS EYENUTS -----	4-26A
DUCTILE IRON GUY CLIPS-----	4-27
GROUNDING CLAMPS-----	4-28
BRONZE GROUND ROD CLAMPS -----	4-29
GALVANIZED GROUND RODS -----	4-30
COPPER GROUND RODS -----	4-31
DRIVE HOOKS -----	4-32
GUY HOOKS & STRAIN PLATES -----	4-33
LOW VOLTAGE INSULATOR PINS-----	4-34
LOW VOLTAGE INSULATOR NYLON PINS -----	4-34A
HIGH VOLTAGE INSULATOR PINS-----	4-35
HIGH VOLTAGE INSULATOR NYLON PINS -----	4-35A
POLE TOP PINS -----	4-36
OFFSET POLE TOP PINS-----	4-36A
LAG SCREWS -----	4-37
RISER SHIELD LAG SCREWS -----	4-37A
STAPLES-----	4-38
POLE STEPS-----	4-39
LINE POST INSULATOR STUDS -----	4-40
GALVANIZED ROUND WASHERS -----	4-41
LOCK WASHERS-----	4-42
GALVANIZED SQUARE WASHERS -----	4-43



M F LOCKNUTS & REGULAR SQUARE NUTS-----	4-44
SPRING WASHERS-----	4-45
MAST ARMS, WOOD POLE MOUNTING-----	4-46
CLAMPS-----	4-47
FITTINGS, GUY -----	4-48
GUY HOOKS-----	4-49
WIRE HOLDERS-----	4-50
WIRE HOLDERS-----	4-50A
PINS CROSSARM CLAMP TYPE -----	4-51
ARMS, STEEL -----	4-52
ARMS, STEEL -----	4-52A
ARMS, STEEL -----	4-52B
ARMS, STEEL -----	4-52C
ARMS, STEEL -----	4-52D
CABLE RACKS -----	4-53
PINS ANGLE CROSSARM-----	4-54
SPACER, PIPE -----	4-55
PLATES, LIFT AND LOAD-----	4-56
TRANSFORMER MOUNTING -----	4-57
CABLE SUPPORT INSULATORS -----	4-58



GALVANIZED ANCHOR RODS

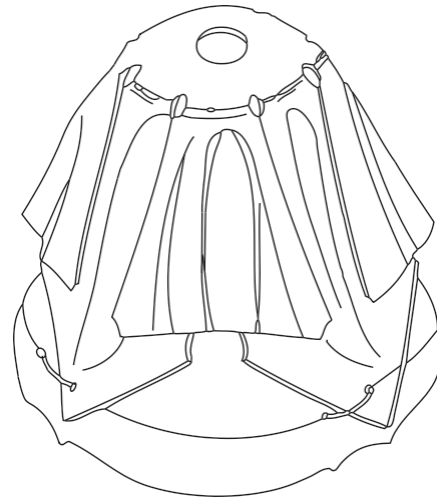


ROD DIMENSIONS DIA.	L	MINIMUM ULTIMATE STRENGTH	CATALOG NUMBER THIMBLEYE	APPROX. WEIGHT PER 100	CATALOG NUMBER TWINEYE	APPROX. WEIGHT PER 100	CATALOG NUMBER TRIPLEYE	APPROX. WEIGHT PER 100
1/2"	5'	10,000 LBS.	U7405	338 LBS.	—	—	—	—
1/2"	6'	10,000 LBS.	U7406	418 LBS.	—	—	—	—
1/2"	7'	10,000 LBS.	U7407	476 LBS.	—	—	—	—
1/2"	8'	10,000 LBS.	U7408	535 LBS.	—	—	—	—
5/8"	3'	16,000 LBS.	U7413	342 LBS.	—	—	—	—
5/8"	4'	16,000 LBS.	U7414	426 LBS.	—	—	—	—
5/8"	5'	16,000 LBS.	U7415	494 LBS.	U7515	452 LBS.	—	—
5/8"	6'	16,000 LBS.	U7416	578 LBS.	U7516	545 LBS.	—	—
5/8"	7'	16,000 LBS.	U7417	663 LBS.	U7517	615 LBS.	—	—
5/8"	8'	16,000 LBS.	U7418	748 LBS.	U7518	697 LBS.	—	—
5/8"	9'	16,000 LBS.	U7419	833 LBS.	U7519	778 LBS.	—	—
3/4"	6'	23,000 LBS.	U7426	791 LBS.	U7526	811 LBS.	U7326	1108 LBS.
3/4"	7'	23,000 LBS.	U7427	915 LBS.	U7527	919 LBS.	U7327	1110 LBS.
3/4"	8'	23,000 LBS.	U7428	1036 LBS.	U7528	1043 LBS.	U7328	1245 LBS.
3/4"	9'	23,000 LBS.	U7429	1160 LBS.	U7529	1168 LBS.	U7329	1425 LBS.
3/4"	10'	23,000 LBS.	U7430	1283 LBS.	U7530	1301 LBS.	U7330	1600 LBS.
1"	8'	36,000 LBS.	U7438	2210 LBS.	U7538	2280 LBS.	U7338	2288 LBS.
1"	10'	36,000 LBS.	U7440	2740 LBS.	U7540	2835 LBS.	U7340	2824 LBS.
1 1/4"	10'	58,000 LBS.	—	—	—	—	U7350	4380 LBS.

THE ABOVE ANCHOR RODS COME COMPLETE WITH A HEAVY SQUARE NUT AND A MINIMUM OF 3 1/2" THREAD. OVALEYE RODS ARE ALSO AVAILABLE BY ADDING THE PREFIX —OII TO THE #SC7400 SERIES. (#OSC7405) SOME SIZES MAY REQUIRE A MINIMUM ORDER AMOUNT. THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



EXPANDING ANCHORS



CAT.NO.	HOLE SIZE	AREA SQ.IN	ROD SIZE	STANDARD PACKING	APPROX WEIGHT PER100
U8115	8"	115"	5/8"	6	900LBS
U8135	8"	135"	5/8"-3/4"	6	900LBS
U8135-1	8"	135"	1"	6	900LBS
U8200-1	10"	200"	1"	4	1925LBS
U8200-3/4	10"	200"	3/4"	4	1925LBS
U0283	12"	300"	1 1/4"	2	3300LBS

THE ABOVE EXPANDING ANCHORS ARE FURNISHED WITH A HIGH GRADE ASPHALT COATING.
TO OBTAIN A HOT DIPPED GALVANIZED FINISH PLEASE ADD THE LETTER —"G" TO THE PART NUMBER.
EXAMPLE:#U8135-G



ANCHOR & CHAIN SHACKLES

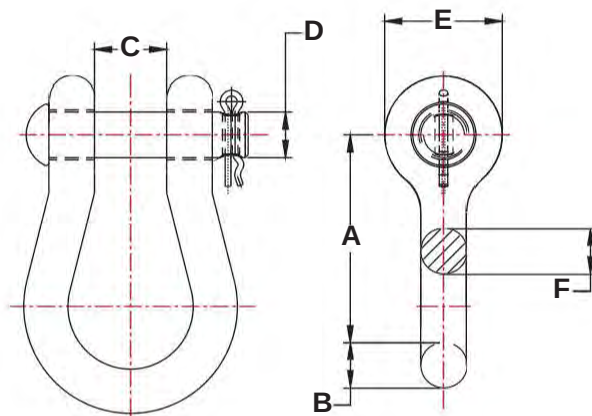


FIG. 1

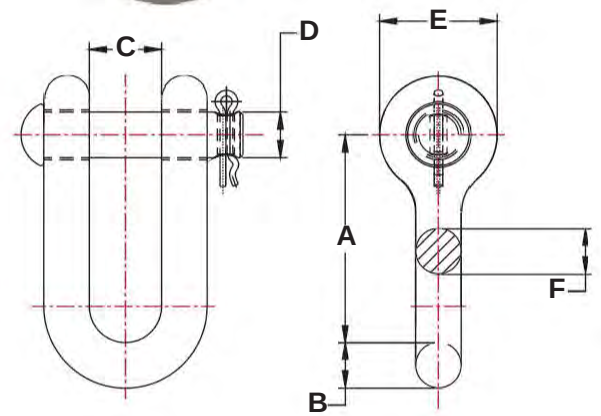


FIG. 2

CATALOG NUMBER	FIG. NO.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "F"	ULTIMATE STRENGTH	WEIGHT PER 100
U2742	1	2 1/13"	1/2"	7/8"	5/8"	1 5/16"	1/2"	25000 LBS.	79 LBS.
UAS25	1	2 3/16"	5/8"	7/8"	5/8"	1 3/8"	11/16"	30000 LBS.	98 LBS.
UCS25L	2	2 7/8"	5/8"	1"	5/8"	1 5/8"	5/8"	25000 LBS.	129 LBS.
UCS35	2	2 3/8"	5/8"	1 1/16"	3/4"	1 1/2"	5/8"	35000 LBS.	132 LBS.

THE ABOVE SHACKLES ARE OFFERED IN ANCHOR STYLE AND CHAIN STYLE.

THE MATERIAL IS AS FOLLOWS :

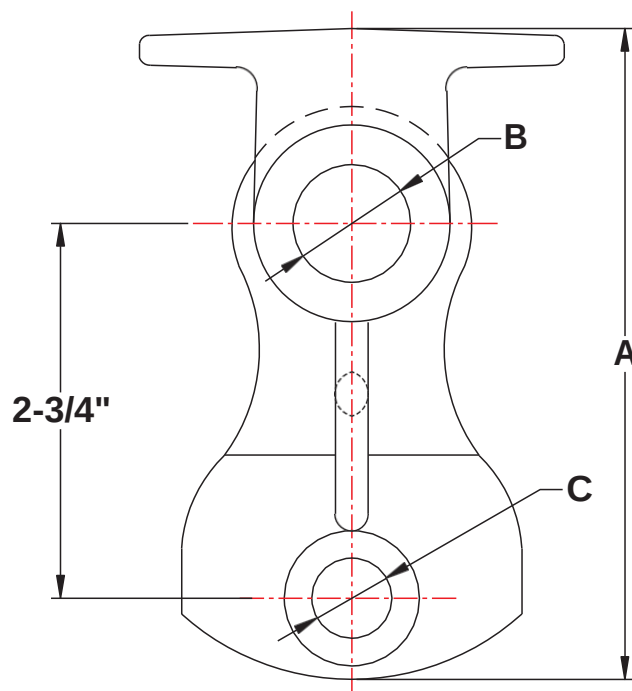
BODY AND PIN : STEEL HOT DIPPED GALVANIZED TO ASTM A153

COTTER KEY : STAINLESS STEEL

PLEASE REFER TO OUR TOWER HARDWARE SECTION FOR OTHER SIZES OF SHACKLES.



GUY ATTACHMENT FLAT HEAD TYPE



CATALOG NUMBER	DIMENSION A	DIAMETER B	DIAMETER C	APPROX. WEIGHT PER 100
FHGA – 5X	4 3/4"	13/16"	SPUR	90 LBS.
FHGA – 5	4 3/4"	13/16"	9/16"	73 LBS.

THE ABOVE FLAT HEAD TYPE GUY ATTACHMENTS ARE PRIMARILY USED WITH WIRE VISE AND AUTOMATIC DEADENDS. THEY ALSO OFFER A SAFE METHOD FOR INSTALLATION OF GUY GRIPS. A SEALING TYPE PLATE LOCATED AT THE TOP MOUNTING HOLE HELPS KEEP WATER FROM DETERIORATING THE WOOD POLE. THE USE OF A RIBBED TYPE CONSTRUCTION LESSENS THE WEIGHT OF THE ATTACHMENT WITHOUT ANY LOSS IN STRENGTH.

THE MATERIAL IS DUCTILE IRON HOT DIPPED GALVANIZED TO ASTM A153.



GUY ATTACHMENTS



FIG. 1

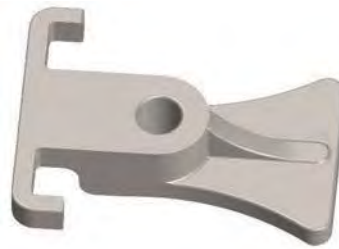
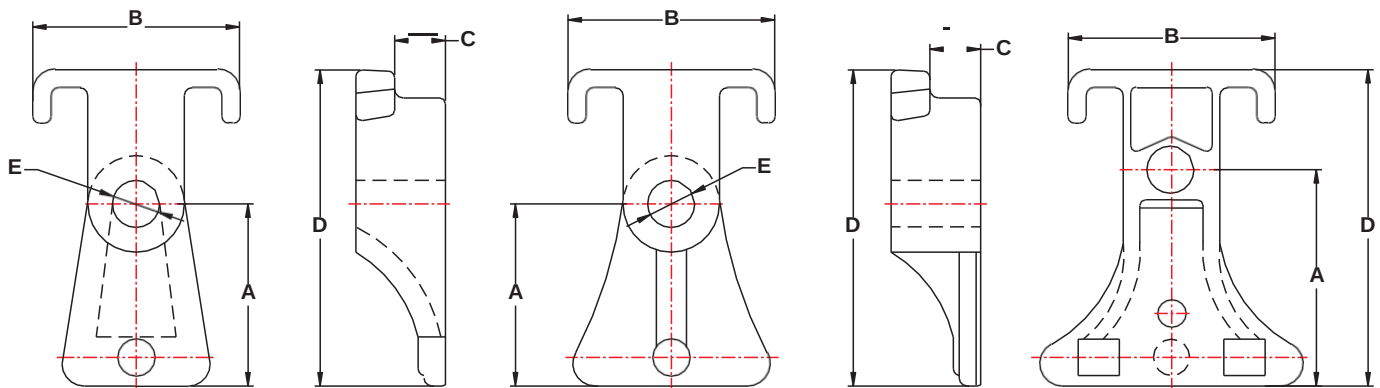


FIG. 2



FIG. 3



CATALOG NUMBER	FIG. NO.	OVERALL HEIGHT "D"	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	MTG. HOLE "E"	LAG BOLT HOLE	APPROX. WT. / 100
U6555	1	4"	2 1/4"	3 1/4"	1/2"	11/16"	9/16"	115 LBS.
DGH5X	2	4"	2 1/4"	3 1/4"	1/2"	11/16"	SPUR	117 LBS.
DGH6	1	4 5/16"	2 3/4"	3 1/4"	5/8"	13/16"	9/16"	120 LBS.
DGH6X	2	4 5/16"	2 3/4"	3 1/4"	5/8"	13/16"	SPUR	122 LBS.
AGH7	3	6 1/2"	4 3/4"	4 7/8"	1"	15/16"	9/16" TO 13/16"	200 LBS.

THE ABOVE GUY ATTACHMENTS ARE PRIMARILY USED AS A MEANS TO CONNECT GUYS TO POLES.
FIGURES #1 AND #3 ARE FURNISHED WITH AN EXTRA MOUNTING HOLE AT THE BOTTOM OF THE ATTACHMENT

THE MATERIAL ON FIGURE 1 & 2 IS DUCTILE IRON. HOT DIPPED GALVANIZED TO ASTM A153.
THE MATERIAL ON FIGURE #3 IS A356-T6 ALUMINUM ALLOY.



COMBINATION ATTACHMENTS & POLE EYE PLATES



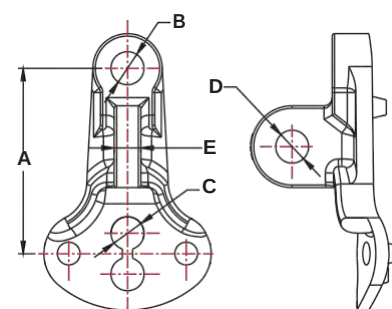
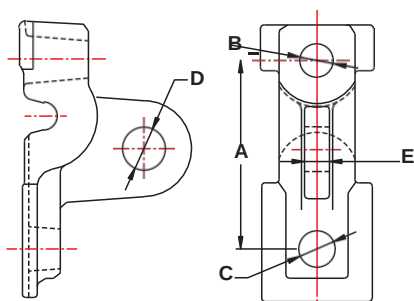
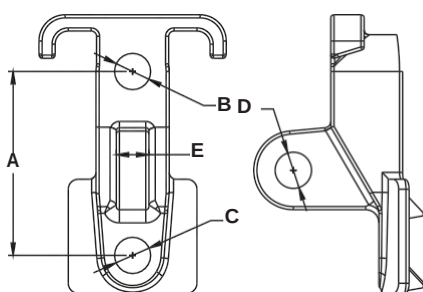
FIG. 1



FIG. 2



FIG. 3



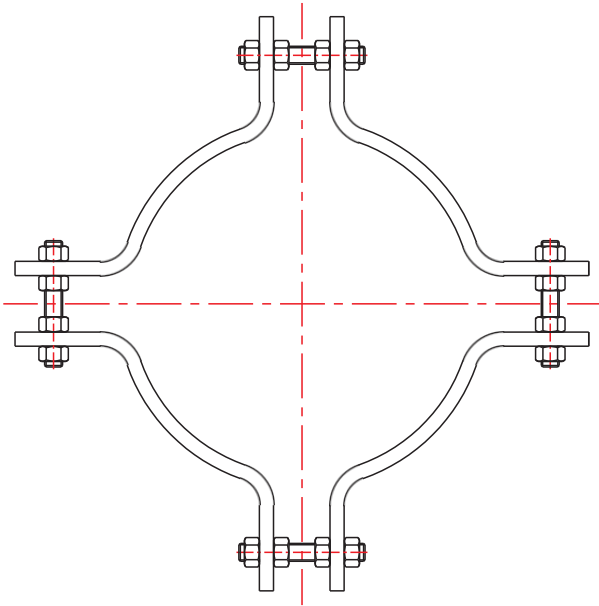
CATALOG NUMBER	FIG. NO.	DIMENSION "A"	MTG. HOLE "B"	MTG. HOLE "C"	DIMENSION "D"	DIMENSION "E"	WEIGHT PER 100
CGA58	1	3"	13/16"	11/16"	5/8"	11/16"	188 LBS.
CGA34	1	3"	13/16"	11/16"	3/4"	13/16"	188 LBS.
CGA34L	1	4 1/2"	13/16"	7/8" X 1 3/4"	3/4"	13/16"	290 LBS.
UGA58-4	2	4"	13/16"	11/16"	5/8"	11/16"	238 LBS.
UGA78-6	2	6"	15/18"	15/18"	15/18"	—	510 LBS.
PEP88	3	4" - 5"	13/16"	13/16"	3/4"	13/16"	275 LBS.

THE ABOVE UNIVERSAL GUY ATTACHMENTS OFFER THE INSTALLER THE ABILITY TO TERMINATE GUY WIRE OR FIBERGLASS GUY LINKS.

FIGURE #3 TAKES THE POLE EYE PLATE A STEP FURTHER, BY ALLOWING ANY GUYING OR DEADENDING ANGLE UP TO 90 DEGREES. PLATE MAY BE MOUNTED WITH BOLTS OR COMBINATION OF BOLTS AND LAG SCREWS. TO ORDER FIGURE #1 WITHOUT TEETH (FOR USE ON CONCRETE POLES) ADD —NTII TO THE PART NUMBER. MATERIAL : DUCTILE IRON HOT DIPPED GALVANIZED TO ASTM A153.



ADJUSTABLE POLE BANDS

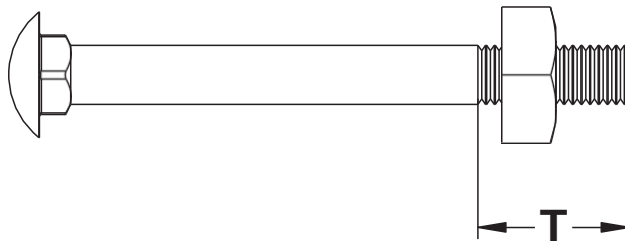


CATALOG NUMBER	TYPE	POLE DIAMETER	STUD BOLT SIZE	LAG HOLE DIAMETER	FLAT STEEL SIZE	APPROX. WEIGHT PER 100
U6643	4 WAY 90 DEGREE	6" - 10 1/2"	3/4" X 6"	9/16"	5/16" X 3"	1575 LBS.
U6644	4 WAY 90 DEGREE	7 1/2" - 12"	3/4" X 6"	9/16"	1/4" X 4"	1242 LBS.
U6646	3 WAY 90 DEGREE	8" - 12"	3/4" X 6"	9/16"	1/4" X 4"	1339 LBS.
U6684	4 WAY 90 DEGREE	11" - 16"	3/4" X 6"	9/16"	1/4" X 4"	1745 LBS.
U2032	4 WAY 90 DEGREE	9 1/2" - 16"	3/4" X 8"	9/16"	1/4" X 4"	2820 LBS.

THE ABOVE STEEL POLE BANDS ARE ADJUSTABLE TO BE USED ON A WIDE RANGE OF WOOD POLES. THE MATERIAL IS HOT DIPPED GALVANIZED STEEL TO ASTM A153. OTHER TYPES OF POLE BANDS AND THEIR ACCESSORIES ARE AVAILABLE UPON REQUEST. PLEASE CONTACT GPP FOR YOUR SPECIFIC NEEDS.



CARRIAGE BOLTS

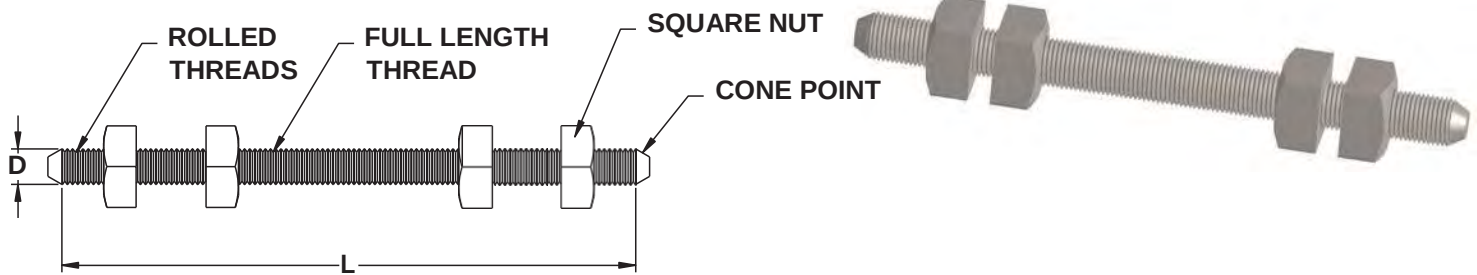


CATALOG NUMBER	BOLT DIMENSION	THREAD LENGTH T	APPROX. WEIGHT PER 100
U8633	3/8" X 3"	2"	12 LBS.
U8634	3/8" X 4"	3"	14 LBS.
U8634-1/2	3/8" X 4 1/2"	3"	16 LBS.
U8635	3/8" X 5"	3"	17 LBS.
U8635-1/2	3/8" X 5 1/2"	3"	18 LBS.
U8636	3/8" X 6"	3"	19 LBS.
U8637	3/8" X 7"	3"	22 LBS.
U8638	3/8" X 8"	3"	24 LBS.
U8640	3/8" X 10"	6"	29 LBS.
U8642	3/8" X 12"	6"	34 LBS.
U8644-1/2	1/2" X 4 1/2"	3"	30 LBS.
U8645	1/2" X 5"	3"	32 LBS.
U8645-1/2	1/2" X 5 1/2"	3"	35 LBS.
U8646	1/2" X 6"	3"	36 LBS.
U8647	1/2" X 7"	4"	41 LBS.
U8648	1/2" X 8"	4"	46 LBS.

THE ABOVE CARRIAGE BOLTS HAVE ROLLED THREADS WITH A SQUARE SHOULDER.
EACH IS FURNISHED WITH ONE SQUARE NUT.
THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



DOUBLE ARMING BOLTS



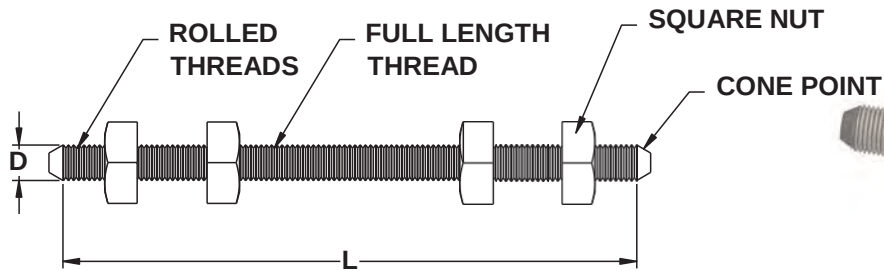
CATALOG NUMBER	BOLT DIMENSION D L	MINIMUM TENSILE STRENGTH	APPROX. WEIGHT PER 100
U8860	5/8" X 10"	13550 LBS.	120 LBS.
U8862	5/8" X 12"	13550 LBS.	132 LBS.
U8864	5/8" X 14"	13550 LBS.	144 LBS.
U8866	5/8" X 16"	13550 LBS.	164 LBS.
U8868	5/8" X 18"	13550 LBS.	180 LBS.
U8870	5/8" X 20"	13550 LBS.	192 LBS.
U8872	5/8" X 22"	13550 LBS.	212 LBS.
U8874	5/8" X 24"	13550 LBS.	224 LBS.
U8876	5/8" X 26"	13550 LBS.	240 LBS.
U8877	5/8" X 28"	13550 LBS.	256 LBS.
U8878	5/8" X 30"	13550 LBS.	264 LBS.
U8879	5/8" X 32"	13550 LBS.	284 LBS.
U8880	5/8" X 34"	13550 LBS.	296 LBS.
U8881	5/8" X 36"	13550 LBS.	332 LBS.
U8883	3/4" X 10"	20050 LBS.	167 LBS.
U8882	3/4" X 12"	20050 LBS.	196 LBS.
U8884	3/4" X 14"	20050 LBS.	220 LBS.
U8886	3/4" X 16"	20050 LBS.	240 LBS.
U8888	3/4" X 18"	20050 LBS.	260 LBS.
U8890	3/4" X 20"	20050 LBS.	284 LBS.
U8892	3/4" X 22"	20050 LBS.	304 LBS.

(Continued on next page)

THE ABOVE DOUBLE ARMING BOLTS ARE FURNISHED WITH FOUR SQUARE NUTS . THE CONE POINTS AT EACH END ALLOW THE INSTALLER TO EASILY DRIVE THE BOLTS WITHOUT DAMAGING THE THREADS. THE MATERIAL ON THE ABOVE BOLTS IS STEEL TO ASTM A663 OR A675 AND HOT DIPPED GALVANIZED TO A153. HIGH STRENGTH BOLTS ARE ALSO AVAILABLE UPON REQUEST. MATERIAL WOULD THEN BE OF A325 STEEL. FOR HIGH STRENGTH BOLTS ADD THE SUFFIX "H" TO THE CATALOG NUMBER. (EXAMPLE: U8866H) MINIMUM ORDER QUANTITIES MAY APPLY FOR THESE HIGH STRENGTH BOLTS.



DOUBLE ARMING BOLTS



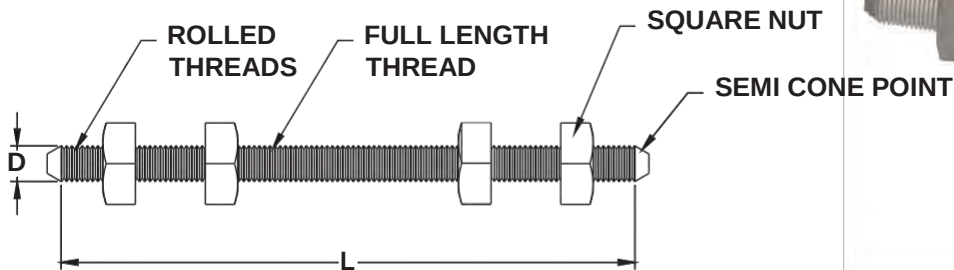
(Continued)

CATALOG NUMBER	BOLT DIMENSION D L	MINIMUM TENSILE STRENGTH	APPROX. WEIGHT PER 100
U8894	3/4" X 24"	20050 LBS.	336 LBS.
U8896	3/4" X 26"	20050 LBS.	345 LBS.
U8897	3/4" X 28"	20050 LBS.	365 LBS.
U8898	3/4" X 30"	20050 LBS.	386 LBS.
U8899	3/4" X 32"	20050 LBS.	400 LBS.
U9003	3/4" X 34"	20050 LBS.	420 LBS.
U9004	3/4" X 36"	20050 LBS.	460 LBS.
U9112	7/8" X 12"	27700 LBS.	273 LBS.
U9114	7/8" X 14"	27700 LBS.	302 LBS.
U9116	7/8" X 16"	27700 LBS.	332 LBS.
U9118	7/8" X 18"	27700 LBS.	362 LBS.
U9120	7/8" X 20"	27700 LBS.	391 LBS.
U9122	7/8" X 22"	27700 LBS.	421 LBS.
U9124	7/8" X 24"	27700 LBS.	451 LBS.
U9126	7/8" X 26"	27700 LBS.	480 LBS.
U9128	7/8" X 28"	27700 LBS.	510 LBS.
U9130	7/8" X 30"	27700 LBS.	540 LBS.
U9132	7/8" X 32"	27700 LBS.	569 LBS.
U9134	7/8" X 34"	27700 LBS.	599 LBS.
U9136	7/8" X 36"	27700 LBS.	629 LBS.
U9138	7/8" X 38"	27700 LBS.	659 LBS.
U9140	7/8" X 40"	27700 LBS.	688 LBS.
U9142	7/8" X 42"	27700 LBS.	718 LBS.

THE ABOVE DOUBLE ARMING BOLTS ARE FURNISHED WITH FOUR SQUARE NUTS . THE CONE POINTS AT EACH END ALLOW THE INSTALLER TO EASILY DRIVE THE BOLTS WITHOUT DAMAGING THE THREADS. THE MATERIAL ON THE ABOVE BOLTS IS STEEL TO ASTM A663 OR A675 AND HOT DIPPED GALVANIZED TO A153. HIGH STRENGTH BOLTS ARE ALSO AVAILABLE UPON REQUEST. MATERIAL WOULD THEN BE OF A325 STEEL. FOR HIGH STRENGTH BOLTS ADD THE SUFFIX "H" TO THE CATALOG NUMBER. (EXAMPLE: U8896H) MINIMUM ORDER QUANTITIES MAY APPLY FOR THESE HIGH STRENGTH BOLTS.



STAINLESS STEEL DOUBLE ARMING BOLTS

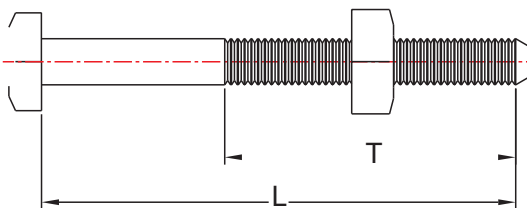


CATALOG NUMBER	BOLT DIMENSION D L	MINIMUM TENSILE STRENGTH	APPROX. WEIGHT PER 100
DAB5810S	5/8" X 10"	13550 LBS.	120 LBS.
DAB5812S	5/8" X 12"	13550 LBS.	132 LBS.
DAB5814S	5/8" X 14"	13550 LBS.	144 LBS.
DAB5816S	5/8" X 16"	13550 LBS.	164 LBS.
DAB5818S	5/8" X 18"	13550 LBS.	180 LBS.
DAB5820S	5/8" X 20"	13550 LBS.	192 LBS.
DAB5822S	5/8" X 22"	13550 LBS.	212 LBS.
DAB5824S	5/8" X 24"	13550 LBS.	224 LBS.
DAB5826S	5/8" X 26"	13550 LBS.	240 LBS.
DAB5828S	5/8" X 28"	13550 LBS.	256 LBS.
DAB5830S	5/8" X 30"	13550 LBS.	296 LBS.
DAB3412S	3/4" X 12"	20050 LBS.	196 LBS.
DAB3414S	3/4" X 14"	20050 LBS.	220 LBS.
DAB3416S	3/4" X 16"	20050 LBS.	240 LBS.
DAB3418S	3/4" X 18"	20050 LBS.	260 LBS.
DAB3420S	3/4" X 20"	20050 LBS.	284 LBS.
DAB3422S	3/4" X 22"	20050 LBS.	304 LBS.
DAB3424S	3/4" X 24"	20050 LBS.	336 LBS.
DAB3426S	3/4" X 26"	20050 LBS.	345 LBS.
DAB3428S	3/4" X 28"	20050 LBS.	365 LBS.
DAB3430S	3/4" X 30"	20050 LBS.	386 LBS.

THE ABOVE DOUBLE ARMING BOLTS ARE FURNISHED WITH FOUR SQUARE NUTS OR FOUR HEX NUTS. THE CONE POINTS AT EACH END ALLOW THE INSTALLER TO EASILY DRIVE THE BOLTS WITHOUT DAMAGING THE THREADS. OTHER SIZES ARE AVAILABLE UPON REQUEST. THE MATERIAL ON THE ABOVE BOLTS IS STAINLESS STEEL TYPE 304. MINIMUM ORDER QUANTITIES MAY APPLY FOR THESE BOLTS.



GALVANIZED MACHINE BOLTS



MIN. TENSILE STRENGTH

1/2"	8500 LBS.
5/8"	13550 LBS.
3/4"	20050 LBS.
7/8"	27700 LBS.

CATALOG NUMBER 1/2" DIA.	BOLT LENGTH L	THREAD LENGTH T	APPROX. WEIGHT PER 100
U8701-1/2	1 1/2"	1 1/4"	18 LBS.
U8702	2"	1 1/4"	20 LBS.
U8702-1/2	2 1/2"	1 1/4"	22 LBS.
U8703	3"	1 1/4"	25 LBS.
U8704	4"	3"	29 LBS.
U8704-1/2	4 1/2"	3"	31 LBS.
U8705	5"	3"	33 LBS.
U8706	6"	3"	38 LBS.
U8707	7"	4"	42 LBS.
U8708	8"	4"	46 LBS.
U8709	9"	4"	51 LBS.
U8710	10"	6"	55 LBS.
U8712	12"	6"	64 LBS.
U8714	14"	6"	73 LBS.
U8716	16"	6"	82 LBS.

CATALOG NUMBER 3/4" DIA.	BOLT LENGTH L	THREAD LENGTH T	APPROX. WEIGHT PER 100
U8908	8"	4"	120 LBS.
U8910	10"	6"	141 LBS.
U8912	12"	6"	171 LBS.
U8914	14"	6"	182 LBS.
U8916	16"	6"	203 LBS.
U8918	18"	6"	225 LBS.
U8920	20"	6"	245 LBS.
U8922	22"	6"	265 LBS.
U8924	24"	6"	285 LBS.
U8926	26"	6"	305 LBS.

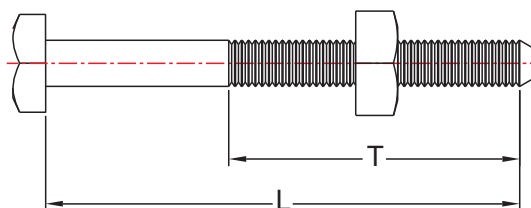
CATALOG NUMBER DIA. 5/8"	BOLT LENGTH L	THREAD LENGTH T	APPROX. WEIGHT PER 100
U8801-1/2	1 1/2"	1 1/4"	30 LBS.
U8802	2"	1 1/2"	34 LBS.
U8802-1/2	2 1/2"	1 1/2"	38 LBS.
U8803	3"	1 1/2"	44 LBS.
U8804	4"	3"	50 LBS.
U8805	5"	3"	59 LBS.
U8806	6"	3"	66 LBS.
U8807	7"	3"	73 LBS.
U8808	8"	4"	80 LBS.
U8809	9"	4"	87 LBS.
U8810	10"	6"	94 LBS.
U8812	12"	6"	107 LBS.
U8814	14"	6"	121 LBS.
U8816	16"	6"	135 LBS.
U8818	18"	6"	150 LBS.
U8820	20"	6"	166 LBS.
U8822	22"	6"	180 LBS.
U8824	24"	6"	193 LBS.
U8826	26"	6"	224 LBS.
U8828	28"	6"	242 LBS.
U8830	30"	6"	262 LBS.

CATALOG NUMBER DIA. 7/8"	BOLT LENGTH L	THREAD LENGTH T	APPROX. WEIGHT PER 100
U9064	14"	6"	260 LBS.
U9066	16"	6"	289 LBS.
U9068	18"	6"	317 LBS.
U9070	20"	6"	346 LBS.
U9072	22"	6"	374 LBS.
U9074	24"	6"	403 LBS.

ALL BOLTS ARE STEEL HOT DIPPED GALVANIZED TO ASTM A153. EACH HAS ROLLED THREADS AND ONE SQUARE NUT.



STAINLESS STEEL MACHINE BOLTS



MIN. TENSILE STRENGTH

1/2"	8500 LBS.
5/8"	13550 LBS.
3/4"	20050 LBS.
7/8"	27700 LBS.

CATALOG NUMBER 1/2" DIA.	BOLT LENGTH L	THREAD LENGTH T	APPROX. WEIGHT PER 100
MB8701 -1/2SS	1 1/2"	1 1/2"	18 LBS.
MB8702SS	2"	1 3/4"	20 LBS.
MB8702 -1/2SS	2 1/2"	2 1/4"	22 LBS.
MB8703SS	3"	2 3/4"	25 LBS.
MB8704SS	4"	3"	29 LBS.
MB8704 -1/2SS	4 1/2"	3"	31 LBS.
MB8705SS	5"	3"	33 LBS.
MB8706SS	6"	3"	38 LBS.
MB8707SS	7"	4"	42 LBS.
MB8708SS	8"	4"	46 LBS.
MB8709SS	9"	4"	51 LBS.
MB8710SS	10"	6"	55 LBS.
MB8712SS	12"	6"	64 LBS.
MB8714SS	14"	6"	73 LBS.
MB8716SS	16"	6"	82 LBS.

CATALOG NUMBER DIA. 5/8"	BOLT LENGTH L	THREAD LENGTH T	APPROX. WEIGHT PER 100
MB8805SS	5"	3"	59 LBS.
MB8806SS	6"	3"	66 LBS.
MB8807SS	7"	3"	73 LBS.
MB8808SS	8"	4"	80 LBS.
MB8809SS	9"	4"	87 LBS.
MB8810SS	10"	6"	94 LBS.
MB8812SS	12"	6"	107 LBS.
MB8814SS	14"	6"	121 LBS.
MB8816SS	16"	6"	135 LBS.
MB8818SS	18"	6"	150 LBS.
MB8820SS	20"	6"	166 LBS.
MB8822SS	22"	6"	180 LBS.
MB8824SS	24"	6"	193 LBS.

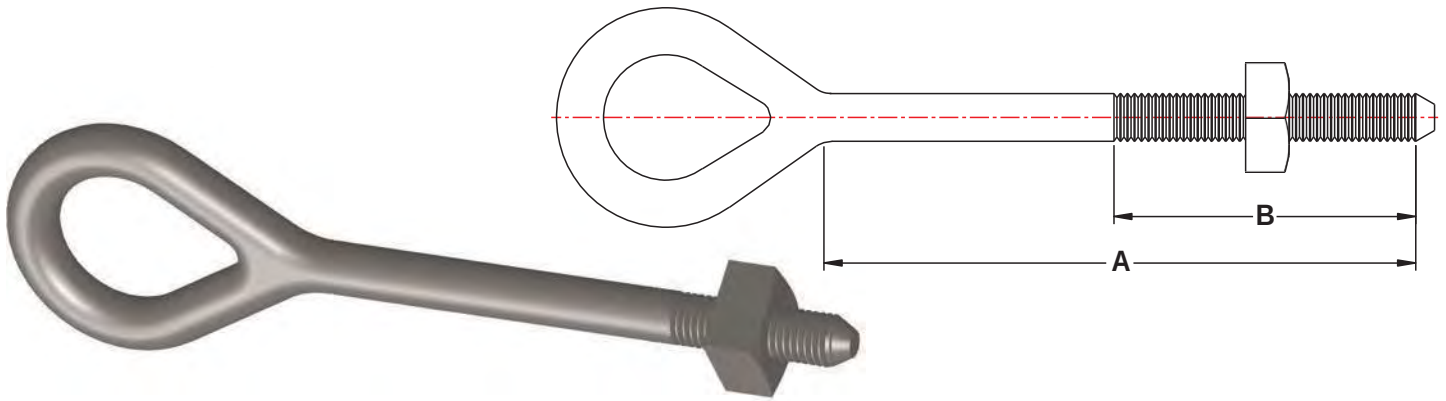
CATALOG NUMBER 3/4" DIA.	BOLT LENGTH L	THREAD LENGTH T	APPROX. WEIGHT PER 100
MB8908SS	8"	4"	120 LBS.
MB8910SS	10"	6"	141 LBS.
MB8912SS	12"	6"	162 LBS.
MB8914SS	14"	6"	182 LBS.
MB8916SS	16"	6"	203 LBS.
MB8918SS	18"	6"	225 LBS.
MB8920SS	20"	6"	245 LBS.
MB8922SS	22"	6"	265 LBS.
MB8924SS	24"	6"	285 LBS.
MB8926SS	26"	6"	305 LBS.

CATALOG NUMBER DIA. 7/8"	BOLT LENGTH L	THREAD LENGTH T	APPROX. WEIGHT PER 100
MB9064SS	14"	6"	260 LBS.
MB9066SS	16"	6"	289 LBS.
MB9068SS	18"	6"	317 LBS.
MB9070SS	20"	6"	346 LBS.
MB9072SS	22"	6"	374 LBS.
MB9074SS	24"	6"	403 LBS.

ALL BOLTS ARE STAINLESS STEEL TYPE 304.
EACH HAS ROLLED THREADS AND ONE SQUARE
NUT. FOR HEX NUT ADD SUFFIX "H" TO NUMBER.



GALVANIZED OVAL EYE BOLTS



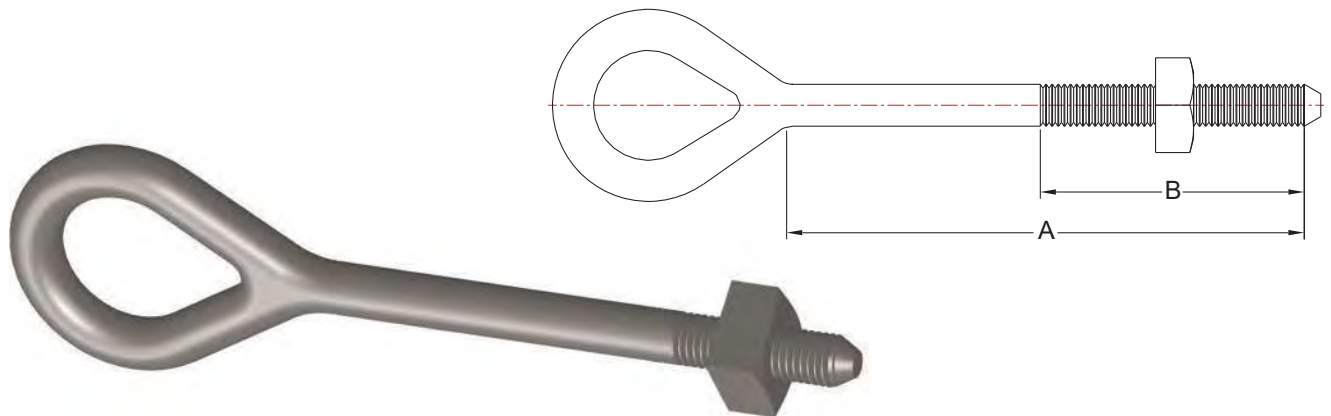
CATALOG NUMBER	BOLT DIMENSION			MINIMUM TENSILE STRENGTH	APPROX. WEIGHT PER 100
	DIA.	A	B		
U9406	5/8"	6"	4"	13550 LBS.	100 LBS.
U9408	5/8"	8"	4"	13550 LBS.	118 LBS.
U9409	5/8"	9"	4"	13550 LBS.	123 LBS.
U9410	5/8"	10"	6"	13550 LBS.	129 LBS.
U9412	5/8"	12"	6"	13550 LBS.	142 LBS.
U9414	5/8"	14"	6"	13550 LBS.	158 LBS.
U9416	5/8"	16"	6"	13550 LBS.	175 LBS.
U9418	5/8"	18"	6"	13550 LBS.	190 LBS.
U9420	5/8"	20"	6"	13550 LBS.	205 LBS.
U9422	5/8"	22"	6"	13550 LBS.	238 LBS.
U9424	5/8"	24"	6"	13550 LBS.	245 LBS.
U9426	5/8"	26"	6"	13550 LBS.	258 LBS.
U9430	5/8"	30"	6"	13550 LBS.	315 LBS.
U9436	5/8"	36"	6"	13550 LBS.	355 LBS.
U9508	3/4"	8"	4"	20050 LBS.	190 LBS.
U9510	3/4"	10"	6"	20050 LBS.	215 LBS.
U9512	3/4"	12"	6"	20050 LBS.	225 LBS.
U9514	3/4"	14"	6"	20050 LBS.	255 LBS.
U9516	3/4"	16"	6"	20050 LBS.	275 LBS.
U9518	3/4"	18"	6"	20050 LBS.	298 LBS.
U9520	3/4"	20"	6"	20050 LBS.	330 LBS.

THE ABOVE OVALEYE BOLTS ARE FURNISHED WITH ONE SQUARE NUT. THE CONE POINT AT THE END ALLOWS THE INSTALLER TO EASILY DRIVE THE BOLTS WITHOUT DAMAGING THE THREADS.

THE MATERIAL ON THESE BOLTS IS STEEL TO ASTM A663 OR A675 AND HOT DIPPED GALVANIZED TO A153. OTHER SIZES ARE AVAILABLE UPON REQUEST. MINIMUM ORDER QUANTITIES MAY APPLY FOR THESE BOLTS.



STAINLESS STEEL OVAL EYE BOLTS

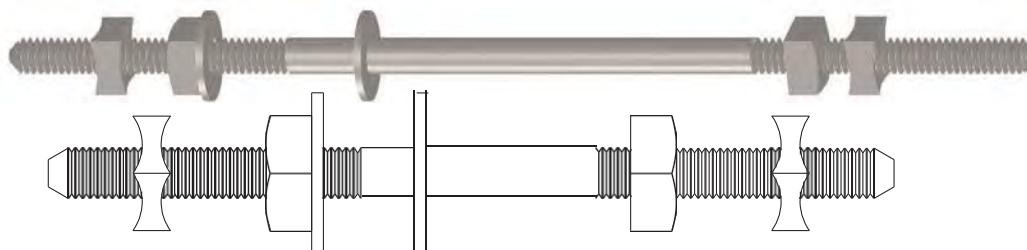


CATALOG NUMBER	BOLT DIMENSION			MINIMUM TENSILE STRENGTH	APPROX. WEIGHT PER 100
	DIA.	A	B		
EB586S	5/8"	6"	4"	13550 LBS.	100
EB588S	5/8"	8"	4"	13550 LBS.	118
EB589S	5/8"	9"	4"	13550 LBS.	123
EB5810S	5/8"	10"	6"	13550 LBS.	129
EB5812S	5/8"	12"	6"	13550 LBS.	142
EB5814S	5/8"	14"	6"	13550 LBS.	158
EB5816S	5/8"	16"	6"	13550 LBS.	175
EB5818S	5/8"	18"	6"	13550 LBS.	190
EB5820S	5/8"	20"	6"	13550 LBS.	205
EB5822S	5/8"	22"	6"	13550 LBS.	238
EB5824S	5/8"	24"	6"	13550 LBS.	245
EB5826S	5/8"	26"	6"	13550 LBS.	258
EB5830S	5/8"	30"	6"	13550 LBS.	315
EB5836S	5/8"	36"	6"	13550 LBS.	355
EB348S	3/4"	8"	4"	20050 LBS.	190
EB3410S	3/4"	10"	6"	20050 LBS.	215
EB3412S	3/4"	12"	6"	20050 LBS.	225
EB3414S	3/4"	14"	6"	20050 LBS.	255
EB3416S	3/4"	16"	6"	20050 LBS.	275
EB3418S	3/4"	18"	6"	20050 LBS.	298
EB3420S	3/4"	20"	6"	20050 LBS.	330

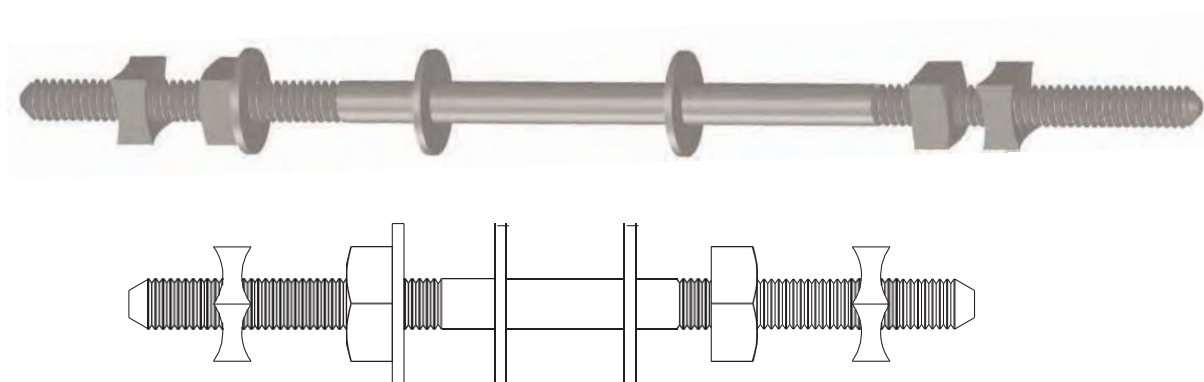
THE ABOVE OVALEYE BOLTS ARE FURNISHED WITH ONE SQUARE NUT OR ONE HEX NUT. THE CONE POINT AT THE END ALLOWS THE INSTALLER TO EASILY DRIVE THE BOLTS WITHOUT DAMAGING THE THREADS. THE MATERIAL ON THE ABOVE BOLTS IS STAINLESS STEEL TYPE 304. OTHER SIZES ARE AVAILABLE UPON REQUEST. MINIMUM ORDER QUANTITIES MAY APPLY FOR THESE BOLTS.



UPSET SPOOL BOLTS



SINGLE UPSET SPOOL BOLT



DOUBLE UPSET SPOOL BOLT

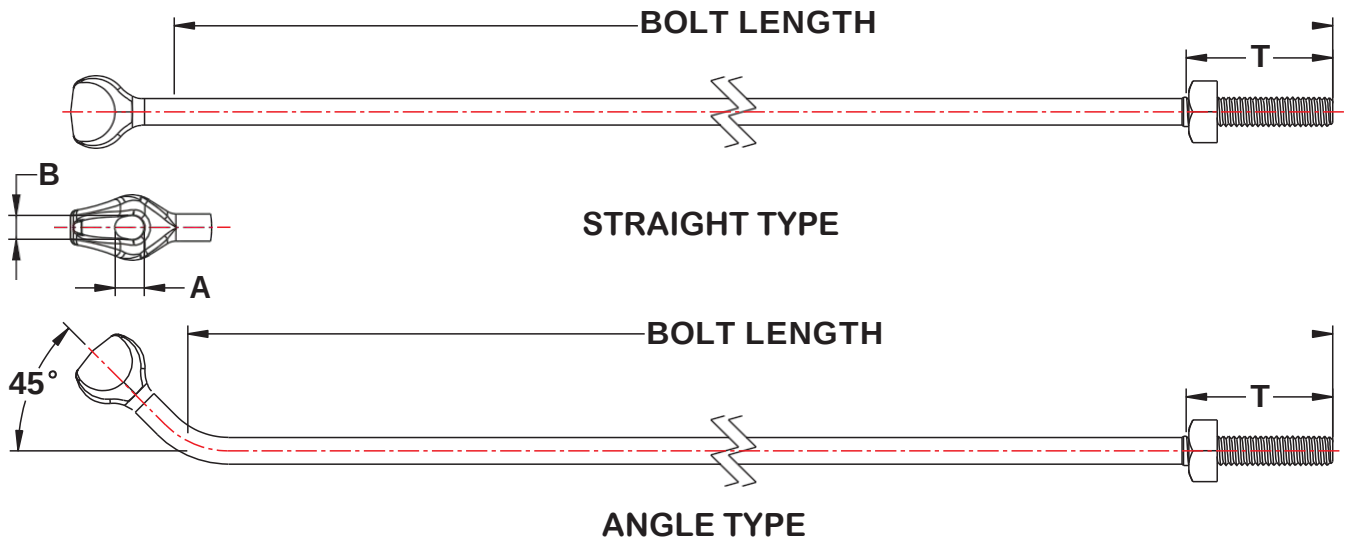
CATALOG NUMBER	ABOVE TYPE	THREAD	SHANK LENGTH	OVERALL LENGTH	THREAD LENGTH	APPROX. WEIGHT PER 100
U2343	SINGLE	5/8"	9"	13 1/2"	4"	150 LBS.
U2344-1/2	SINGLE	5/8"	10"	14 1/2"	4"	167 LBS.
U2346-1/2	SINGLE	5/8"	12"	16 1/2"	6"	181 LBS.
U2395	DOUBLE	5/8"	9"	15"	4"	170 LBS.
U2396	DOUBLE	5/8"	10"	16"	4"	190 LBS.
U2398	DOUBLE	5/8"	12"	18"	6"	198 LBS.

THE ABOVE SPOOL BOLTS PROVIDE ADDED CLEARANCE BETWEEN INSULATOR AND POLE.
THESE BOLTS COME COMPLETE WITH TWO SQUARE NUTS, MF TYPE LOCKNUT AND A LOCKING PIN.
OTHER SIZES ARE AVAILABLE UPON REQUEST. MINIMUM ORDER QUANTITIES MAY APPLY FOR THESE BOLTS.

THE MATERIAL IS FORGED CARBON STEEL, HOT DIPPED GALVANIZED TO ASTM A153.



THIMBLE EYE BOLTS



CATALOG NUMBER	BOLT TYPE	BOLT DIMENSION	THREAD LENGTH	DIMENSION A	DIMENSION B	APPROX. WEIGHT PER 100
U8050	STRAIGHT	5/8" X 8"	4"	11/16"	9/16"	143 LBS.
U8051	STRAIGHT	5/8" X 10"	4"	11/16"	9/16"	157 LBS.
U8052	STRAIGHT	5/8" X 12"	6"	11/16"	9/16"	170 LBS.
U8053	STRAIGHT	5/8" X 14"	6"	11/16"	9/16"	184 LBS.
U8054	STRAIGHT	5/8" X 16"	6"	11/16"	9/16"	197 LBS.
U8061	STRAIGHT	3/4" X 10"	4"	13/16"	11/16"	188 LBS.
U8062	STRAIGHT	3/4" X 12"	6"	13/16"	11/16"	207 LBS.
U8063	STRAIGHT	3/4" X 14"	6"	13/16"	11/16"	227 LBS.
U8151	ANGLE	5/8" X 10"	4"	11/16"	9/16"	161 LBS.
U8152	ANGLE	5/8" X 12"	6"	11/16"	9/16"	175 LBS.
U8153	ANGLE	5/8" X 14"	6"	11/16"	9/16"	188 LBS.
U8154	ANGLE	5/8" X 16"	6"	11/16"	9/16"	202 LBS.
U8161	ANGLE	3/4" X 10"	4"	13/16"	11/16"	188 LBS.
U8162	ANGLE	3/4" X 12"	6"	13/16"	11/16"	207 LBS.
U8163	ANGLE	3/4" X 14"	6"	13/16"	11/16"	227 LBS.

THE ABOVE THIMBLEYE BOLTS ARE USED AS A METHOD OF ATTACHING GUYS AND DEADENDS TO POLES AND CROSSARMS. THEY CAN ELIMINATE THE NEED OF THIMBLES, STRAIN PLATES, GUY HOOKS, AND EXTRA STRAND. THE 5/8" BOLTS HAVE AN ULTIMATE STRENGTH RATING OF 12400 LBS. THE 3/4" BOLTS ARE RATED 18350 LBS. THE MATERIAL USED IS FORGED STEEL HOT DIPPED GALVANIZED TO ASTM A153.



STEEL BRACES FLAT & ANGLE



FIG. 1

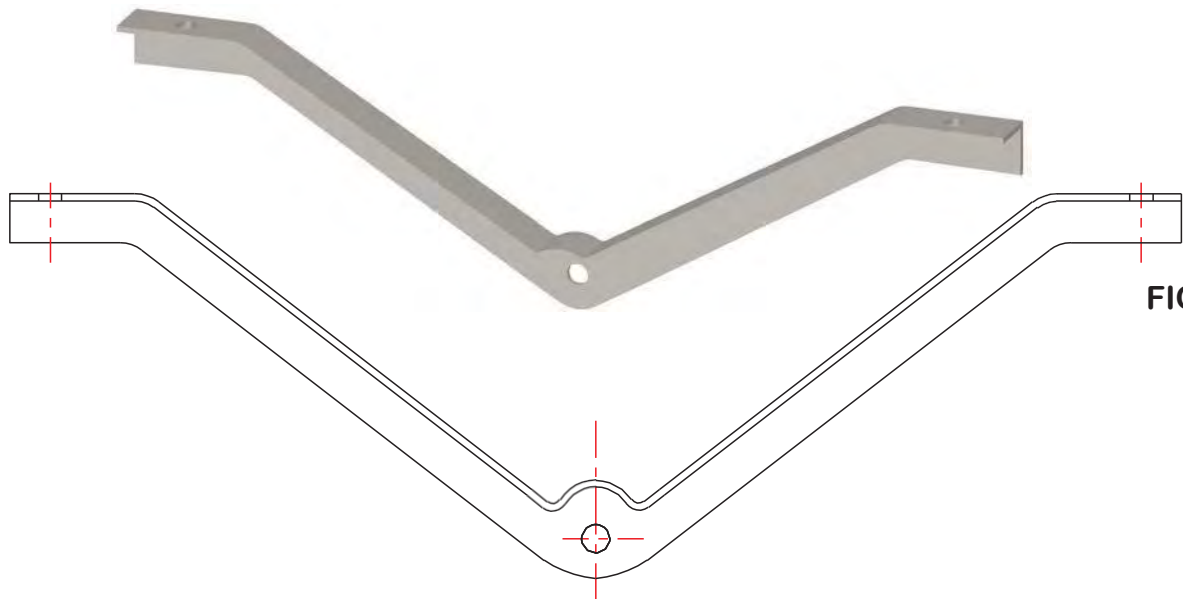


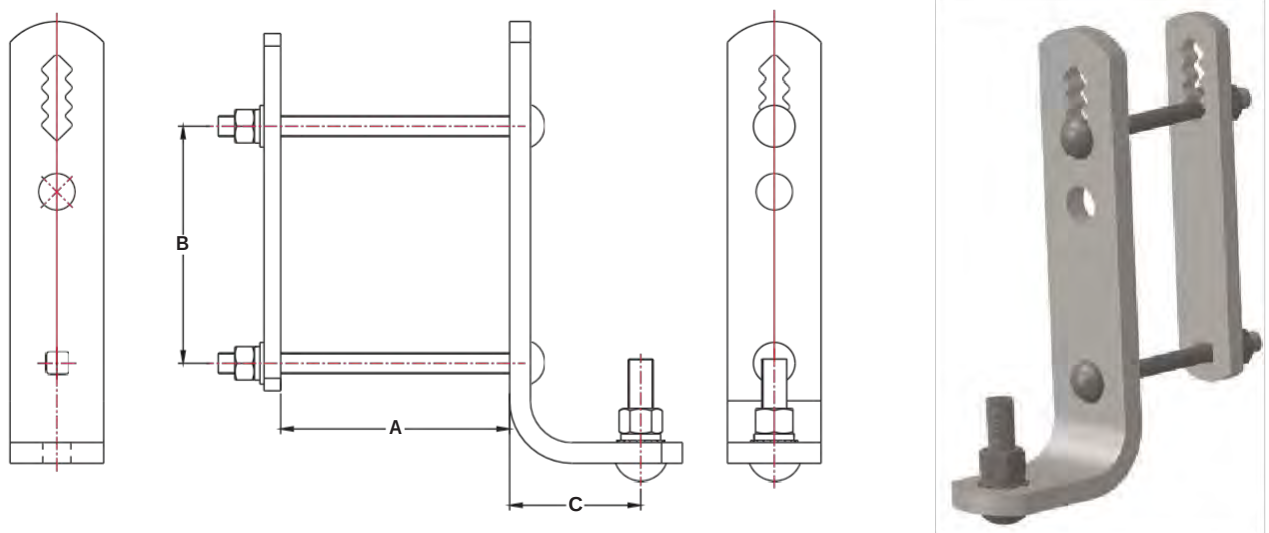
FIG. 2

CATALOG NUMBER	FIG. NO.	FLAT SIZE : 1 1/4" X 1/4"		ANGLE SIZE : 1 3/4" X 5/32"		APPROX. WEIGHT PER 100
		LENGTH	HOLE DISTANCE	SPAN	DROP	
U7126	1	26"	24"	—		230 LBS.
U7128	1	28"	26"	—		250 LBS.
U7130	1	30"	28"	—		255 LBS.
U7132	1	32"	30"	—		280 LBS.
*U7028	1	28"	26"	—		190 LBS.
U1510	2	—		60"	18"	1114 LBS.
U1512	2	—		72"	22"	1335 LBS.

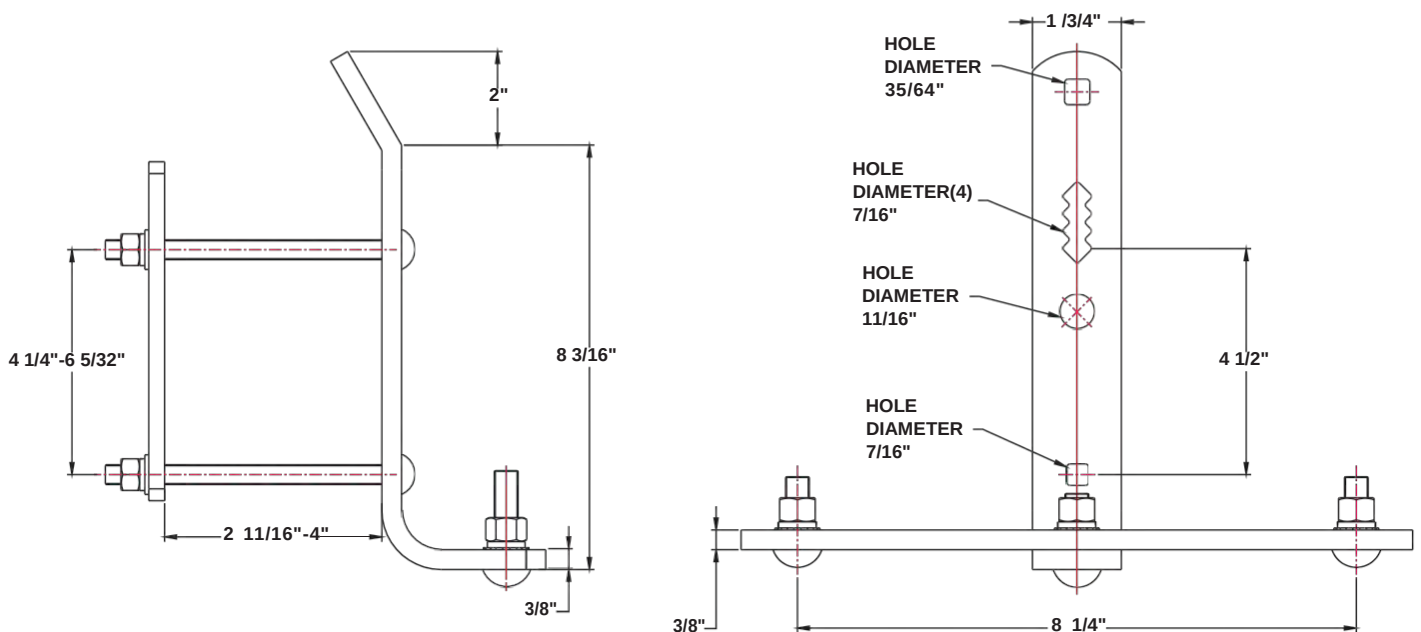
THE ABOVE STEEL BRACES ARE PRIMARILY USED TO HELP ALIGN AND SUPPORT CROSSARMS.
THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



CROSSARM MOUNTING BRACKETS



CATALOG NUMBER	BRACKET TYPE	ANGLE BRACKET STEEL SIZE	BACK STRAP STEEL SIZE	DIMENSION "A"	DIM. "B"	DIM. "C"	WT. PER 100
U24515	NEMA TYPE "A" FIGURE 1	5/16" X 1 1/2"	1/4" X 1 1/4"	2 3/4" X 4"	4 1/8" X 5 1/4"	2 1/4"	250 LBS.
U24512	NEMA TYPE "B" FIGURE 1	3/8" X 1 3/4"	1/4" X 1 1/4"	2 3/4" X 4"	4 1/8" X 5 1/4"	2 1/4"	300 LBS.



THE ABOVE CROSSARM BRACKETS ARE USED TO MOUNT A VARIETY OF APPARATUS. THE MATERIAL USED ON THESE IS STEEL TO ASTM A663 OR A675 AND HOT DIPPED GALVANIZED TO ASTM A153. OTHER SIZES ARE AVAILABLE. PLEASE CONTACT GPP WITH YOUR SPECIAL REQUESTS.



POLE TOP BRACKETS

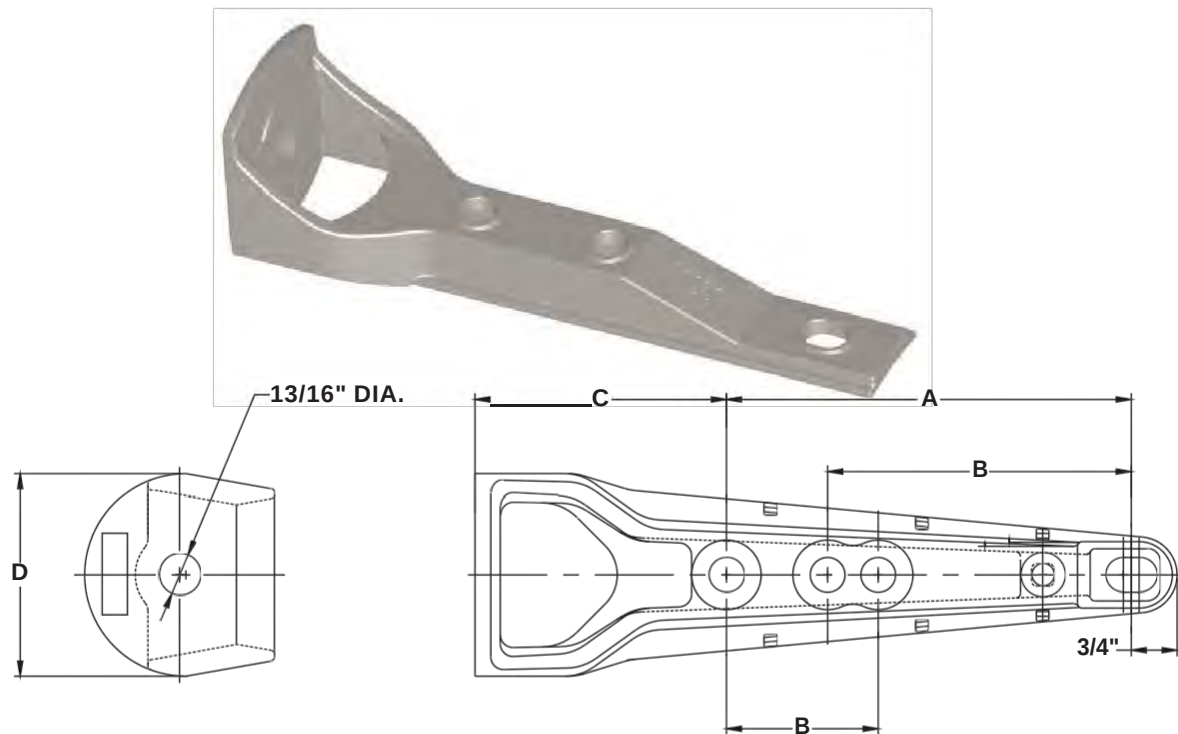


FIG. 1

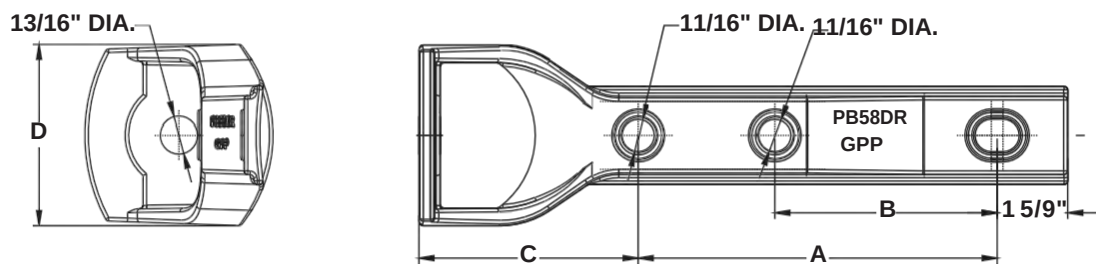


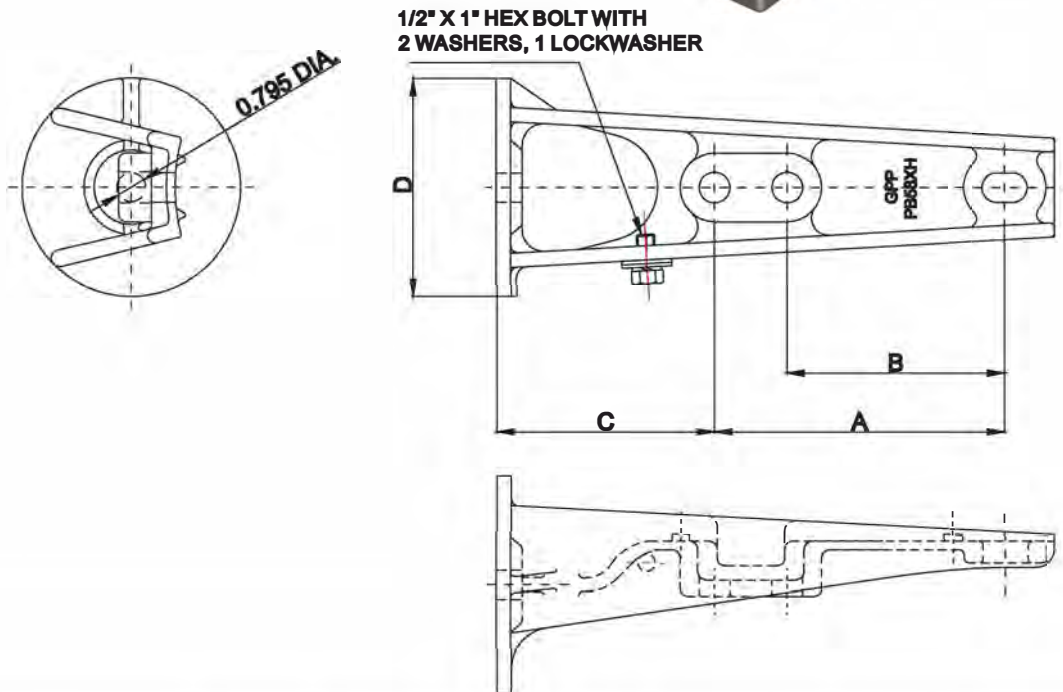
FIG. 2

CATALOG NUMBER	FIG. NO.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	MAXIMUM VOLTAGE CLASS	CANTILEVER STRENGTH FT. LBS.	WEIGHT EACH
PB58	1	8"	5"	5"	4 1/8"	35	34,000	5.5 LBS.
PB58H	1	8"	5"	6"	4 1/2"	69	50,000	6.5 LBS.
PB58DR	2	7 7/8"	4 7/8"	4 4/5"	4"	35	34,000	5.3 LBS.

THE MATERIAL ON THE ABOVE POLE TOP BRACKETS IS DUCTILE IRON TO ASTM 65 -45-12
HOT DIPPED GALVANIZED TO ASTM A 153 .



POLE TOP BRACKET

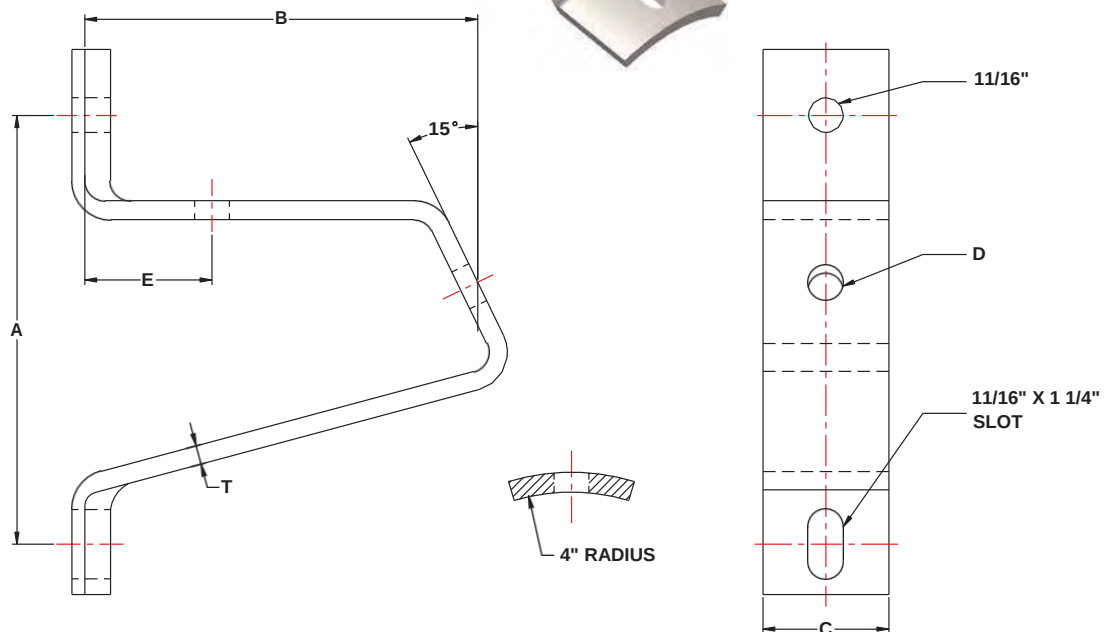


CATALOG NUMBER	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	MAXIMUM VOLTAGE CLASS	APPLY STUD BOLT	WEIGHT EACH
PB-58XH	8"	6"	6"	6"	69	5/8 - 3/4 Stud Bolt	12 LBS.

THE MATERIAL ON THE ABOVE POLE TOP BRACKETS IS DUCTILE IRON TO ASTM 65 -45-12
HOT DIPPED GALVANIZED TO ASTM A 153 .



INSULATOR BRACKETS SIDE POST TYPE

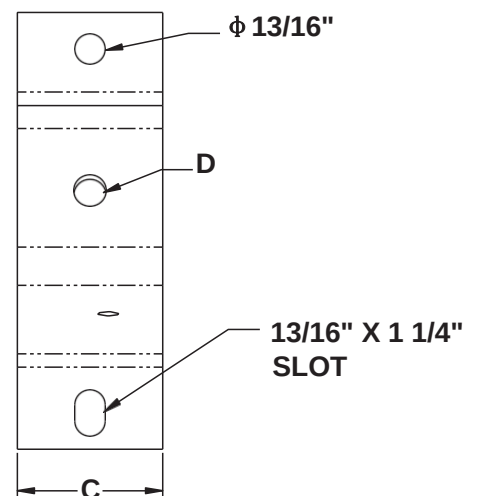
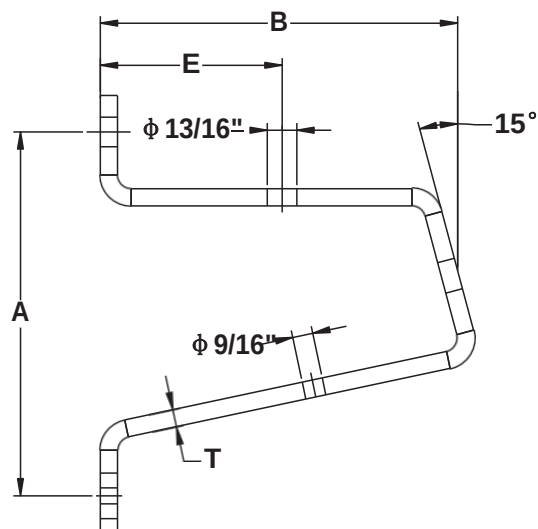


CATALOG NUMBER	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D	DIMENSION E	THICKNESS T	WEIGHT EACH
SPB 1075	10"	7 1/2"	3"	11/16"	3"	5/16"	7 LBS.
SPB 10120	10"	12"	4"	13/16"	4 1/2"	3/8"	14 LBS.

THE ABOVE SIDE POST INSULATOR BRACKETS ARE USED FOR MOUNTING POST TYPE INSULATORS. FOR ROUND POLE USE, THE BASE IS CURVED IN ORDER TO ESTABLISH A CONTOUR FIT TO THE POLE. THESE BRACKETS GIVE THE INSTALLER THE ABILITY TO MOUNT THE INSULATOR IN A PHASE OVER PHASE CONSTRUCTION OR ON OPPOSITE SIDES OF EACH OTHER FOR "ARMLESS" CONSTRUCTION. OTHER SIZES AVAILABLE UPON REQUEST. MINIMUM ORDER QUANTITY MAY BE REQUIRED.



INSULATOR BRACKETS SIDE POST TYPE

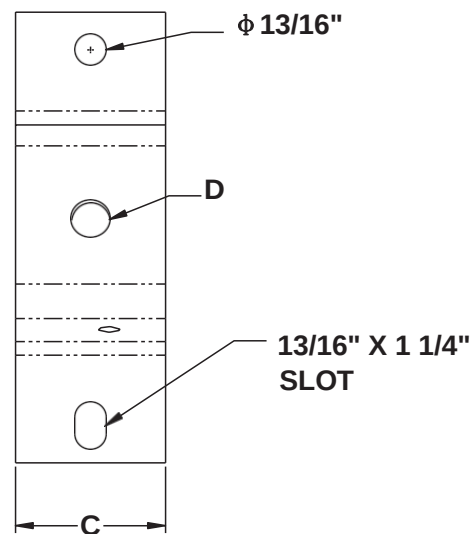
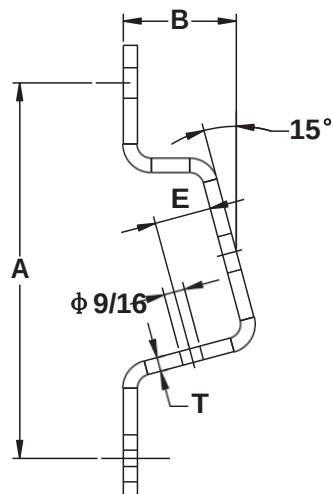


CATALOG NUMBER	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D	DIMENSION E	THICKNESS T	WEIGHT EACH
SPB 1010919	10"	10"	4"	13/15"	5"	9/19"	14.8 LBS.

THE ABOVE SIDE POST INSULATOR BRACKETS ARE USED FOR MOUNTING POST TYPE INSULATORS. THESE BRACKETS GIVE THE INSTALLER THE ABILITY TO MOUNT THE INSULATOR IN A PHASE OVER PHASE CONSTRUCTION OR ON OPPOSITE SIDES OF EACH OTHER FOR "ARMLESS" CONSTRUCTION. OTHER SIZES AVAILABLE UPON REQUEST. MINIMUM ORDER QUANTITY MAY BE REQUIRED.



INSULATOR BRACKETS SIDE POST TYPE

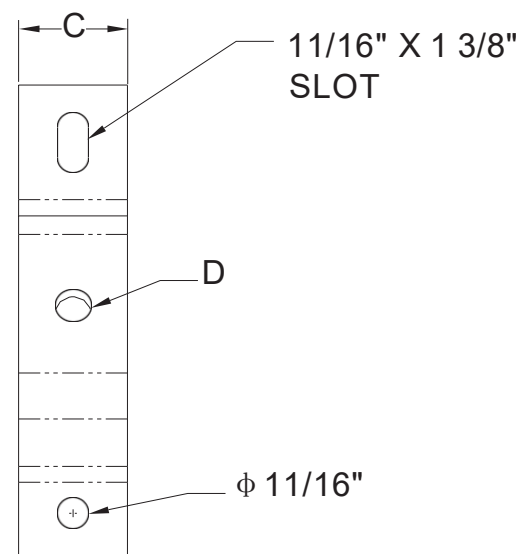
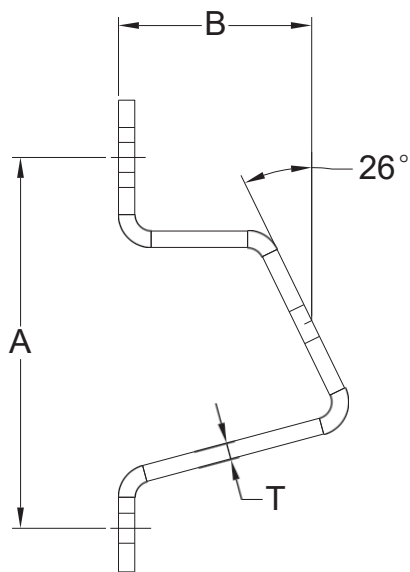


CATALOG NUMBER	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D	DIMENSION E	THICKNESS T	WEIGHT EACH
SPB 103038	10"	3"	4"	1"	1-1/2"	3/8"	6.614 LBS.
SPB 1030919	10"	3"	4"	1"	1-1/2"	9/19"	8.219 LBS.

THE ABOVE SIDE POST INSULATOR BRACKETS ARE USED FOR MOUNTING POST TYPE INSULATORS. THESE BRACKETS GIVE THE INSTALLER THE ABILITY TO MOUNT THE INSULATOR IN A PHASE OVER PHASE CONSTRUCTION OR ON OPPOSITE SIDES OF EACH OTHER FOR "ARMLESS" CONSTRUCTION. OTHER SIZES AVAILABLE UPON REQUEST. MINIMUM ORDER QUANTITY MAY BE REQUIRED.



INSULATOR BRACKETS SIDE POST TYPE



CATALOG NUMBER	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D	THICKNESS T	WEIGHT EACH
SPB 525FB	8 1/2"	4 3/8"	2 1/2"	13/16"	3/8"	4.48 LBS.

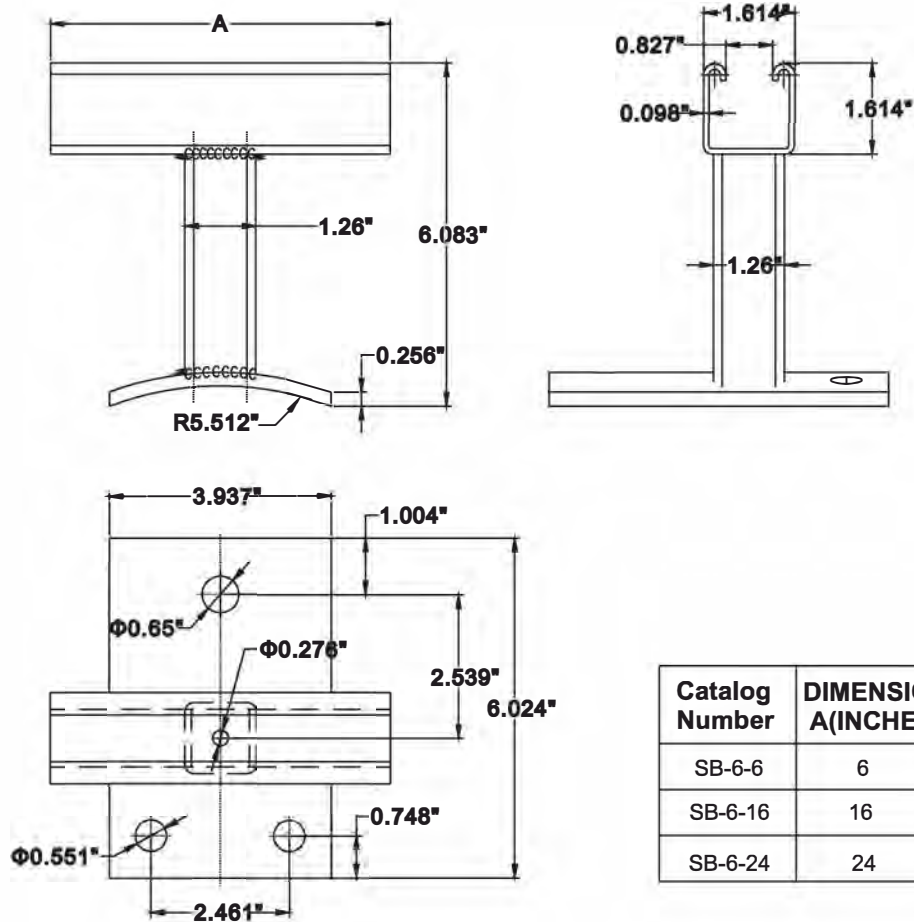
THE ABOVE SIDE POST INSULATOR BRACKETS ARE USED FOR MOUNTING POST TYPE INSULATORS. THESE BRACKETS GIVE THE INSTALLER THE ABILITY TO MOUNT THE INSULATOR IN A PHASE OVER PHASE CONSTRUCTION OR ON OPPOSITE SIDES OF EACH OTHER FOR "ARMLESS" CONSTRUCTION. OTHER SIZES AVAILABLE UPON REQUEST. MINIMUM ORDER QUANTITY MAY BE REQUIRED.



STANDOFF BRACKETS

Material

Steel hot dip galvanized



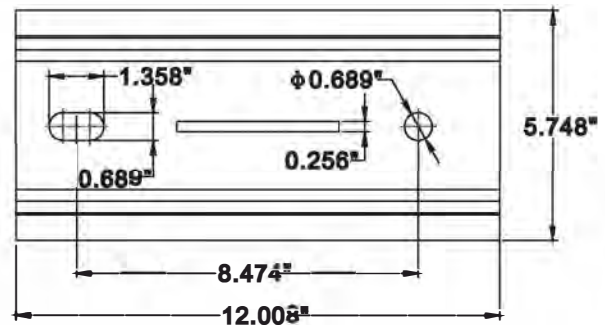
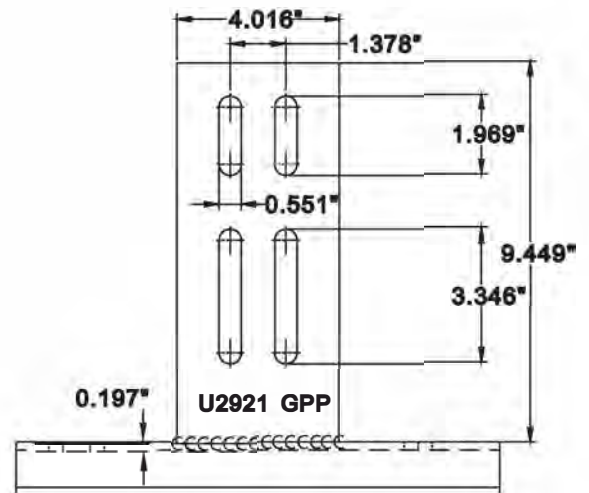
Catalog Number	DIMENSION A(INCHES)	Weight /100(lbs)
SB-6-6	6	324
SB-6-16	16	471
SB-6-24	24	589



Single or Double Conduit Support Bracket

Material

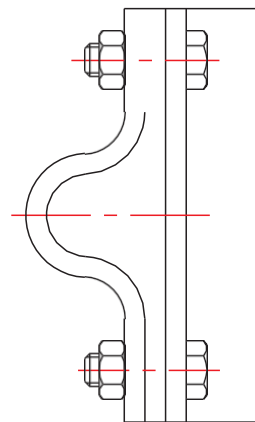
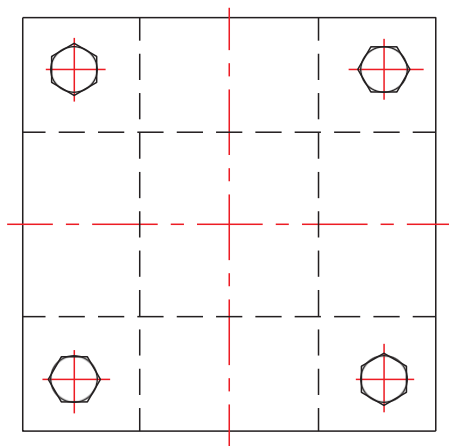
Steel hot dip galvanized



Catalog Number	Weight /100(lbs)
U2921	678



CROSSOVER CLAMPS

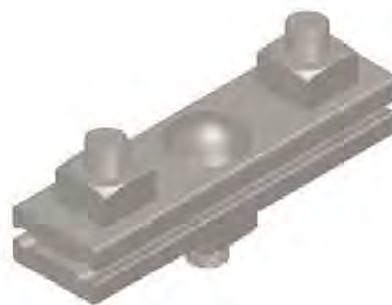
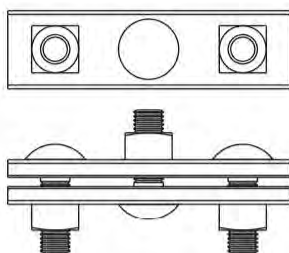


CATALOG NUMBER	CABLE RANGE	BOLT SIZE	APPROX. WEIGHT PER 100
U25564	3/16" TO 1/2"	3/8"	67 LBS.

THE ABOVE CATV CROSSOVER CLAMPS COME WITH TWO 3/8" CARRIAGE BOLTS AND NUTS. THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.

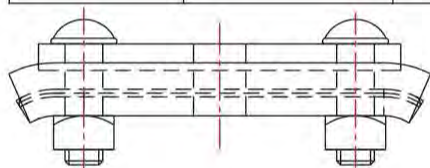


CABLE CLAMPS GUY & SUSPENSION

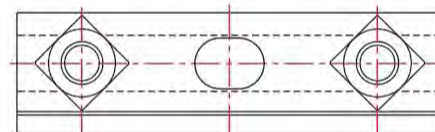
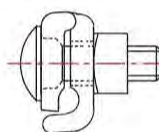
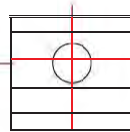
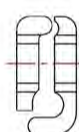


GUY CLAMPS

CATALOG NUMBER	NUMBER OF BOLTS	BOLT DIAMETER	CLAMP LENGTH	CLAMP WIDTH	ACCOMMODATES WIRE SIZE	WT. PER 100
U1061	1	1/2"	1 1/2"	1 9/16"	3/16" TO 3/8"	65 LBS.
U1030	2	1/2"	3 3/8"	1 9/16"	3/16" TO 3/8"	147 LBS.
U929	3	1/2"	4"	1 2/3"	3/16" TO 7/16"	179 LBS.
U930	3	1/2"	6"	1 2/3"	3/16" TO 7/16"	250 LBS.
U931	3	5/8"	6"	1 21/32"	5/16" TO 1/2"	270 LBS.



ANGLE SUSPENSION



CABLE SUSPENSION

CATALOG NUMBER	CLAMP TYPE	ACCOMMODATES WIRE SIZE	CLAMP LENGTH	MTG. HOLE DIAMETER	APPROX. WT. PER 100
U7901	ANGLE SUSPENSION	1/4" THRU 7/16"	7"	13/16"	215 LBS.
U7902L	ANGLE SUSPENSION	1/4" THRU 7/16"	7"	11/16"	215 LBS.
U7902R	ANGLE SUSPENSION	1/4" THRU 7/16"	7"	13/16"	190 LBS.
U7902B	ANGLE SUSPENSION	1/4" THRU 7/16"	7 1/4"	13/16"	281 LBS.
U7902	ANGLE SUSPENSION	1/4" THRU 7/16"	7"	13/16"	385 LBS.
U1095	1 – BOLT CABLE SUSP.	1/4" THRU 7/16"	2 1/2"	11/16"	67 LBS.
U1096	3 – BOLT CABLE SUSP.	1/4" THRU 7/16"	5 3/4"	11/16 0.69" X 0.94"	174 LBS.

THE ABOVE CABLE CLAMPS HAVE BOLTS THAT ARE EQUIPPED WITH A SHOULDER THAT WILL PREVENT THEM FROM TURNING WHILE THE INSTALLER IS TIGHTENING DOWN THE CLAMP.

THE GUY CLAMPS HAVE PARALLEL GROVES THAT WILL TIGHTEN DOWN WITHOUT DAMAGING THE CABLE.

THE SUSPENSION CLAMPS ARE USED TO SECURE MESSENGER TO THE POLES AND ARE OFFERED IN A STRAIGHT CLAMP DESIGN AS WELL AS A CURVED ANGLE DESIGN. THE CURVE SEEN ON THE ABOVE ANGLE CLAMPS PREVENT DAMAGE TO THE CABLE WHILE TURNING SMALL ANGLES.



CLEVIS- DEADENDING & INSULATED STYLE

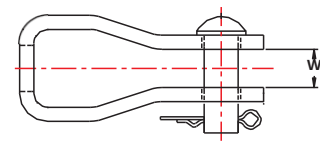
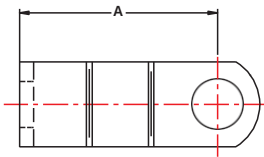


FIGURE 1

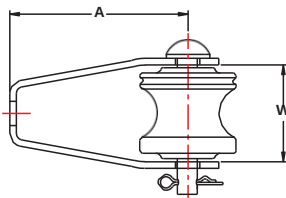


FIGURE 2

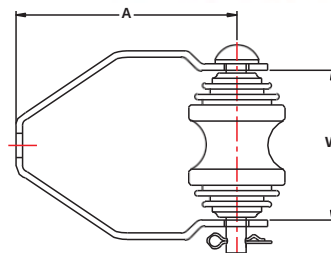
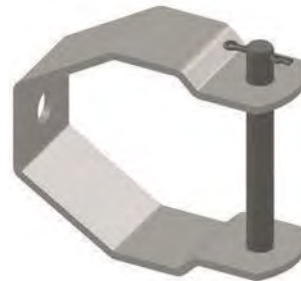


FIGURE 3

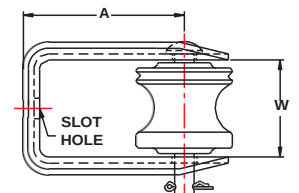


FIGURE 4

CATALOG NUMBER	FIGURE	STEEL SIZE	DIM A	DIM W	MOUNTING HOLE	PIN DIA	APPROX WEIGHT PER 100
U455	1	1 1/2" X 3/16"	3 1/2"	1 1/8"	11/16" X 13/16" SLOT	5/8"	95 LBS
U456	1	2" X 1 1/4"	4"	5/8"	13/16"	5/8"	175LBS
U0313	2	1 1/2" X 3/16"	4.13"	2 3/8"	0.69" X 0.75" SLOT	0.48"	115LBS
U0339	2	1 1/2" X 3/16"	4 3/16"	2 3/8"	11/16" X 13/16" SLOT	5/8"	122LBS
U0342	3	1 1/2" X 3/16"	5"	3 3/8"	0.69" X 0.75" SLOT	5/8"	150LBS
U0344	3	1 1/2" X 1/4"	5 3/4"	4 1/4"	11/16" X 7/8" SLOT	5/8"	240LBS
U1399	4	3" X 3/16"	4"	3.375"	11/16" X 7/8" SLOT	5/8"	194LBS
U1398	4	3" X 3/16"	3"	3.375"	11/16" X 7/8" SLOT	5/8"	163LBS

THE ABOVE CLEVISES ARE USED FOR DEADENDING OF SUSPENSION INSULATORS AND GUYS WITH USE OF EXTENSION LINKS. ALSO SHOWN ABOVE ARE SOME INSULATED CROSSARM CLEVISES. PLEASE ORDER INSULATORS SEPARATELY. REFER TO ANSI NUMBER WHEN REQUESTING INFORMATION ON SPOOLS.

THE MATERIAL USED IS HOT DIPPED GALVANIZED STEEL TO ASTM A153.



CLEVIS-SECONDARY & SWINGING STYLE



FIG. 1

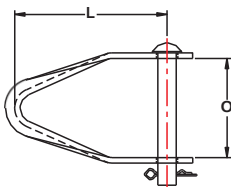


FIG. 2

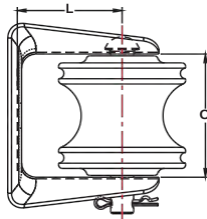


FIG. 3

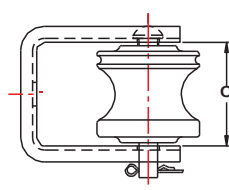
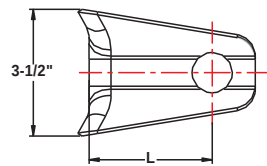


FIG. 4

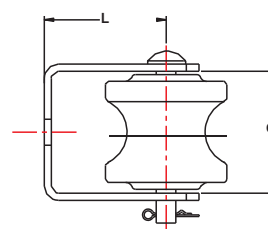
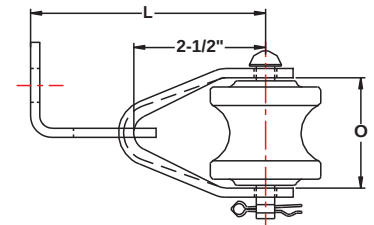


FIG. 5



CATALOG NUMBER	FIGURE NUMBER	STEEL SIZE	DIMENSION "L"	DIMENSION "O"	MOUNTING HOLE	PIN DIAMETER	APPROX. WEIGHT PER 100
U0322	1	1 1/2" X 3/16"	5.06"	3 3/8"	—	5/8"	150 LBS.
U255	2	3" X 3/16"	4"	3 3/8"	11/16" SLOT	5/8" BOLT	227 LBS.
U1300	3	4 3/4" X NO. 11	4"	3.44"	0.69" X 0.88" SLOT	5/8"	231 LBS.
U251	3	NO. 12 GA	2 7/8"	3 2/5"	11/16" X 13/16" SLOT	5/8"	142 LBS.
U093	4	1" X 1/8" CHANNEL	4"	3 1/2"	0.675" SLOT	5/8"	121 LBS.
U93	4	1 1/2" X 3/16" FLAT	5"	3 3/8"	0.69" X 0.88" SLOT	5/8"	165 LBS.
U1626	5	1 1/2" X 3/16"	5"	2 1/4"	0.81" X 1.61" SLOT	0.36"	67 LBS.

THE ABOVE SWINGING CLEVISES SHOWN IN FIGURES #1 AND #5 ARE USED TO BALANCE THE STRAIN WHEN MOUNTING AT CORNERS. THE SAGGER BRACKET SHOWN IN FIGURE #2 CAN BE USED FOR BOTH STRINGING AND SAGGING THE CONDUCTOR. A COTTER BOLT THREADED INTO THE BOTTOM OF THE BRACKET ALLOWS A SPECIAL TWIST LOCK HEAD TO TIGHTEN INTO PLACE AT THE TOP OF THE BRACKET.

THE SECONDARY CLEVISES SHOWN IN FIGURES #3 AND #4 ARE DESIGNED TO HANDLE HIGH STRENGTH ON LINE PULLS OR DEADENDS. SPOOL INSULATORS ARE SOLD SEPARATELY.

THE MATERIAL USED IS HOT DIPPED GALVANIZED STEEL TO ASTM A153.



BOLT & THIMBLE EYELETS

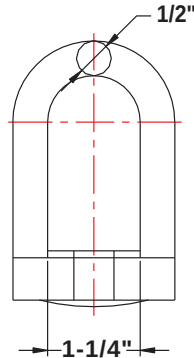


FIG. 1

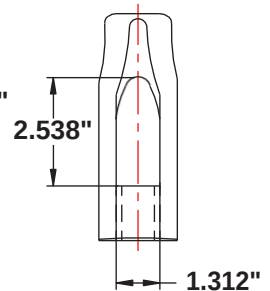
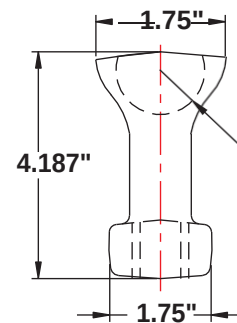
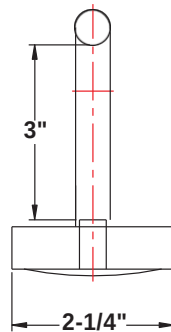


FIG. 2

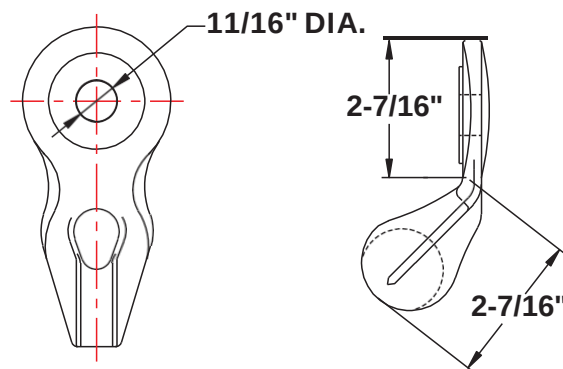


FIG. 3



CATALOG NUMBER	FIG. NO.	BOLT DIAMETER	MAXIMUM STRAND SIZE	SLOT SIZE	APPROX. WEIGHT PER 100
U1126	1	5/8"	—	11/16" X 1 1/8"	95 LBS.
U1127	1	3/4"	—	13/16" X 1 1/8"	93 LBS.
U6550C	2	5/8"	5/8"	11/16" X 1"	120 LBS.
U6551	2	3/4"	5/8"	13/16" X 1 1/8"	118 LBS.
U6500	3	5/8"	1/2"	—	123 LBS.

THE ABOVE BOLT EYES ARE USED IN A VARIETY OF GUYING APPLICATIONS, AS WELL AS DEADENDING. THE SLOTTED HOLE OFFERS THE INSTALLER THE ABILITY TO INSERT THE BOLT FROM THE EYE SIDE. THE THIMBLE EYELETS ARE USED FOR STRAIGHTAWAY GUYS, WHEREAS THE ANGLE EYELET IS USED FOR DOWN GUYS. ALL EYELETS ARE EQUAL OR GREATER IN STRENGTH TO THE BOLTS USED WITH THEM. MATERIAL IS HIGH TENSION DUCTILE IRON GALVANIZED TO ASTM A153.



OVAL & THIMBLE EYE NUTS

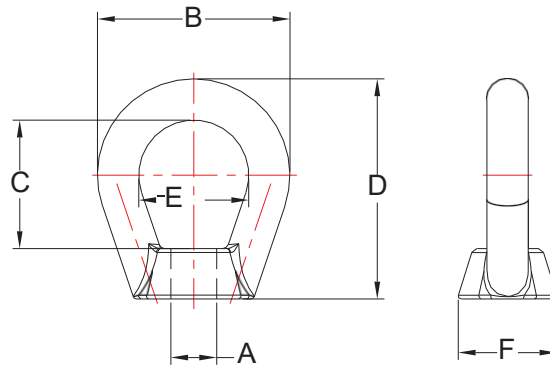


FIG. 1

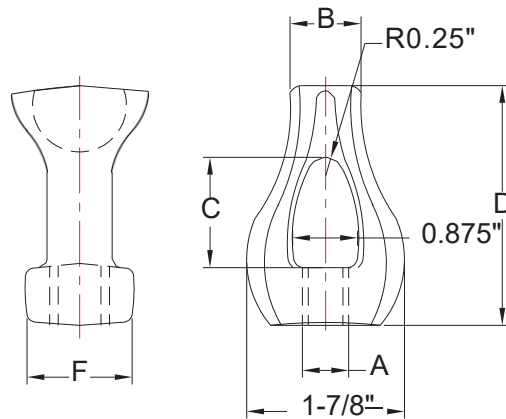


FIG. 2

CATALOG NUMBER	FIG. NO.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "F"	WEIGHT PER 100
U1092	1	5/8"	2 5/8"	1 3/4"	3"	1 1/2"	1 3/8"	62 LBS.
U1093	1	3/4"	2 5/8"	1 3/4"	3"	1 1/2"	1 3/8"	60 LBS.
UEN78	1	7/8"	3 1/2"	2 5/8"	4 5/16"	1 7/8"	1 7/8"	148 LBS.
U6510	2	5/8"	1 1/8"	1 3/8"	3"	—	1 1/2"	103 LBS.
U6511	2	3/4"	1 1/2"	1 3/8"	3"	—	1 1/2"	103 LBS.

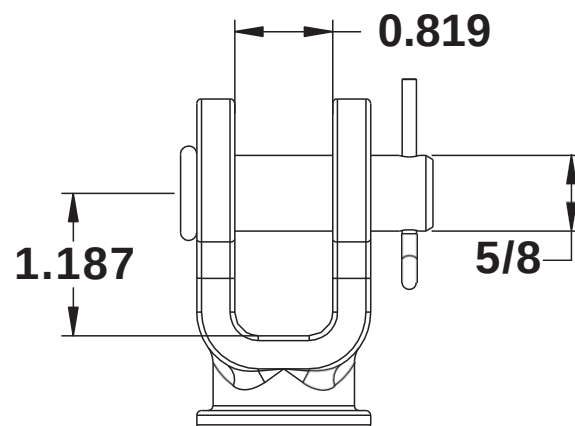
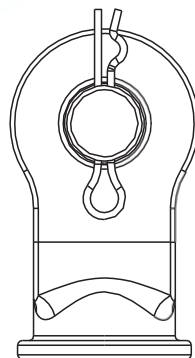
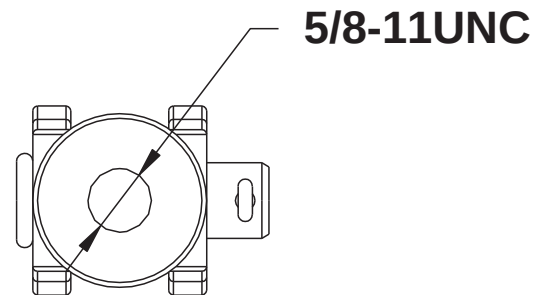
THE ABOVE EYE NUTS ARE OFFERED IN OVAL EYE STYLE AND THIMBLE EYE STYLE.
THE MATERIAL IS DUCTILE IRON TO ASTM A536 GRADE 65-45-12. HOT DIPPED GALVANIZED TO ASTM A153.



CLEVIS EYENUTS

Material

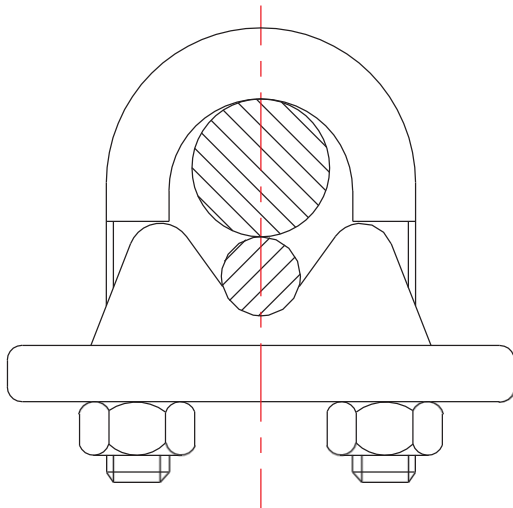
Ductile iron hot dip galvanized



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



DUCTILE IRON GUY CLIPS



CATALOG NUMBER	STRAND SIZE INCHES	APPROX. WEIGHT PER 100
U1048	1/4	14 LBS.
U1050	3/8	30 LBS.
U1051	1/2	48 LBS.
U1052	5/8	60 LBS.
U1053	3/4	83 LBS.
U1054	7/8	140 LBS.

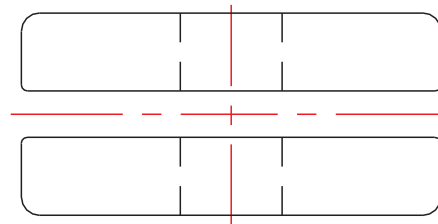
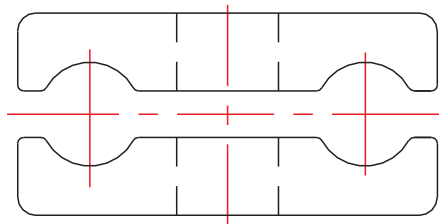
THE ABOVE MALLEABLE GUY CLIPS PROVIDE A STRONG AND ECONOMICAL MEANS OF SECURING WIRE ROPE AND DOWN GUYS.

MATERIAL : BASE-DUCTILE IRON
U BOLT-STEEL

BOTH PARTS ARE HOT DIPPED GALVANIZED TO ASTM A 153



GROUNDING CLAMPS



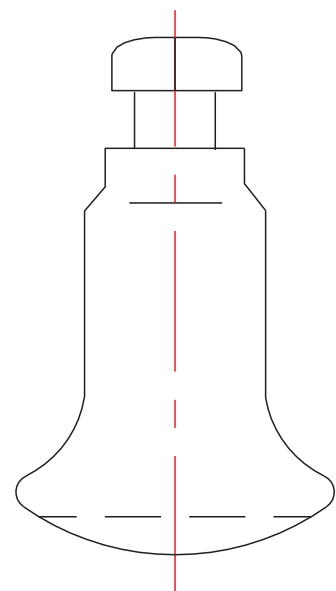
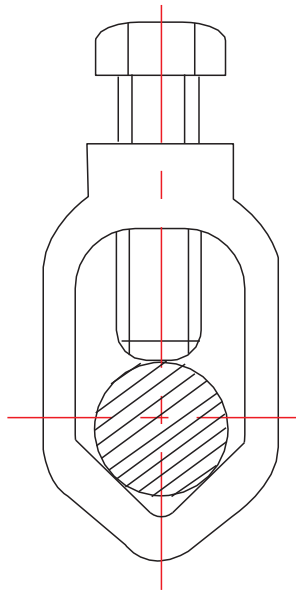
CATALOG NUMBER	MOUNTING BOLT SIZE	GROUND WIRE RANGE	APPROX. WEIGHT PER 100
U1163	5/8"	3/16" TO 7/16"	56 LBS.
U1164	3/4"	5/16" TO 1/2"	58 LBS.

THE ABOVE GROUNDING CLAMPS ARE USED TO ATTACH STATIC WIRE TO SHIELD WIRE SUPPORTS OR BOLTS ON TRANSMISSION LINES. THEY CONSIST OF TWO 1 1/2" LONG CLAMP SECTIONS AND ONE SQUARE NUT. SQUARE NUT NOT PICTURED, BUT INCLUDED.

THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



BRONZE GROUND ROD CLAMPS

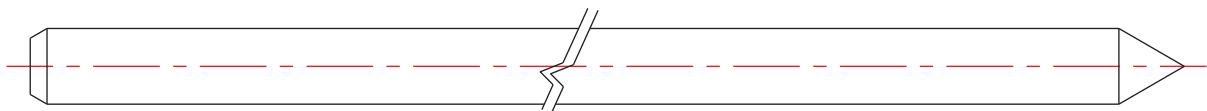


CATALOG NUMBER	ROD DIAMETER	WIRE RANGE	STANDARD PACKAGE	WEIGHT PER 100
GC58R	5/8"	8 SOL.– 2STR.	100	10 LBS.
GC58HD	5/8"	8 SOL.– 1/0 STR.	100	14 LBS.
GC34	3/4"	8 SOL.– 2 STR.	50	11 LBS.
GC34HD	3/4"	8 SOL.– 1/0 STR.	50	16 LBS.

THE ABOVE GROUND ROD CLAMPS ARE MADE OF ELECTRICAL BRONZE.
THESE CLAMPS PROVIDE A HIGH PRESSURE CONTACT BETWEEN THE ROD AND THE COPPER GROUND WIRE.
THEY ARE FURNISHED WITH HEX HEAD BOLTS.



GALVANIZED GROUND RODS



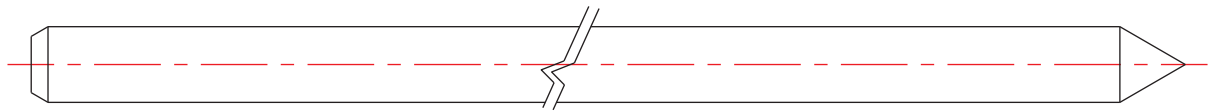
CATALOG NUMBER	ROD DIMENSION	APPROX. WEIGHT PER 100
U5328	5/8" X 8'	800 LBS.
U5330	5/8" X 10'	980 LBS.
U5338	3/4" X 8'	1160 LBS.
U5340	3/4" X 10'	1460 LBS.

THE ABOVE GALVANIZED GROUND RODS ARE FURNISHED WITH A CONE SHAPED POINT FOR EASY DRIVING. THESE STEEL RODS PROVIDE THE CUSTOMER WITH AN ECONOMICAL MEANS OF GROUNDING.

THE MATERIAL IS HOT DIPPED GALVANIZED TO ASTM A153.



COPPER GROUND RODS

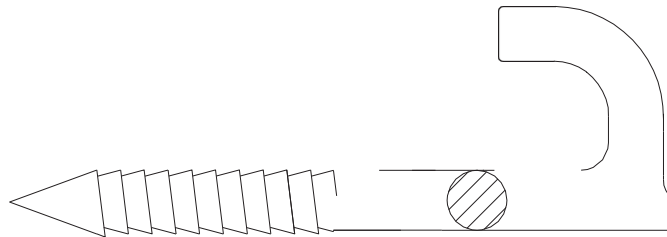


CATALOG NUMBER	ROD DIMENSION	APPROX. WEIGHT PER 100
U8338	5/8" X 8' PLAIN END 10 MIL	705 LBS.
U8338- 13	5/8" X 8' PLAIN END 13 MIL	705 LBS.
U8340	5/8" X 10' PLAIN END 10 MIL	880 LBS.
U8340- 13	5/8" X 10' PLAIN END 13 MIL	880 LBS.
U8348	3/4" X 8' PLAIN END 10 MIL	1035 LBS.
U9158	5/8" X 8' SECTIONAL 10 MIL	705 LBS.
U9158- 13	5/8" X 8' SECTIONAL 13 MIL	705 LBS.
U9160	5/8" X 10' PLAIN END 10 MIL	880 LBS.
U9160- 13	5/8" X 10' SECTIONAL 13 MIL	880 LBS.
U8350	3/4" X 10' PLAIN END 10 MIL	1290 LBS.

THE ABOVE COPPER GROUND RODS ARE FURNISHED WITH A CONE SHAPED POINT FOR EASY DRIVING. THE SECTIONAL RODS ARE THREADED AT EACH END AND CAN BE CONNECTED WITH COUPLINGS.



DRIVE HOOKS



CATALOG NUMBER	HOOK SIZE	THREAD TYPE	APPROX. WEIGHT PER 100
U3316P	7/16" X 4 3/4"	FETTER DRIVE	25 LBS.
U3318	5/16" X 3 1/2"	FETTER DRIVE	11 LBS.

THE ABOVE HOOKS HAVE A PILOT POINT AND ROLLED FETTER THREADS FOR EASY DRIVING. THESE HOOKS ARE USED FOR VARIOUS APPLICATIONS, THE MOST WIDELY OF WHICH IS DROP WIRE SUPPORT.

MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153



GUY HOOKS & STRAIN PLATES

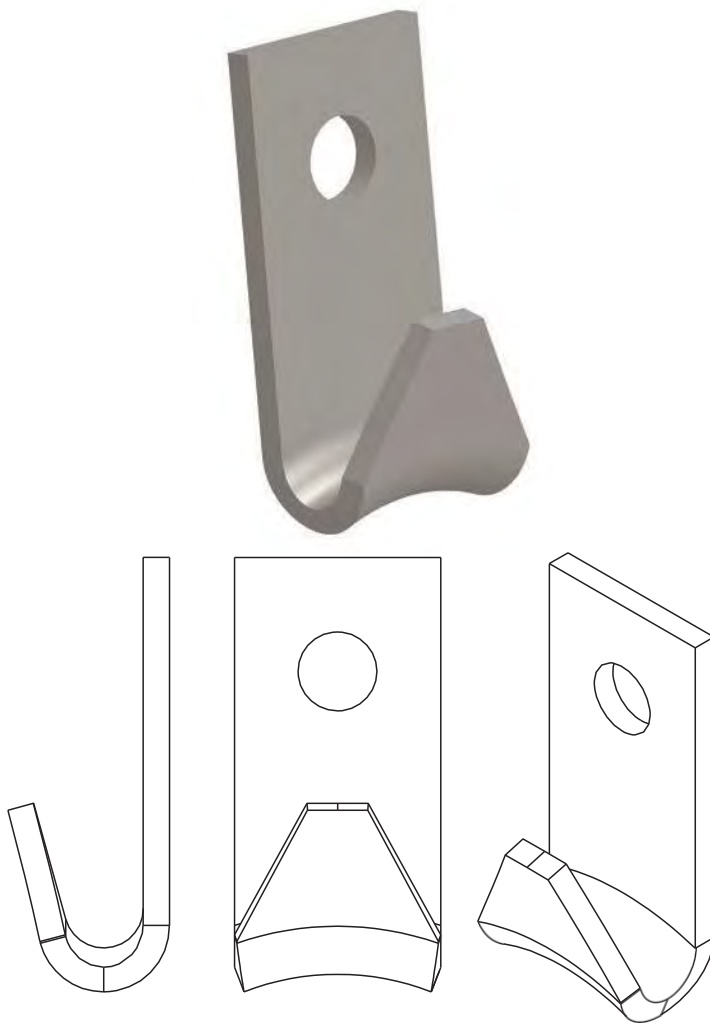


FIG. 1

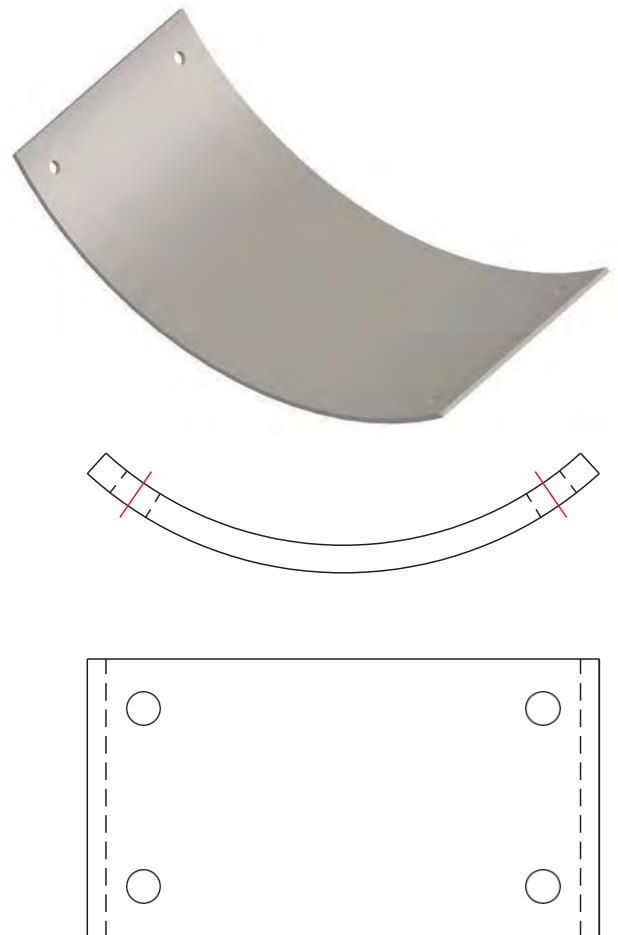


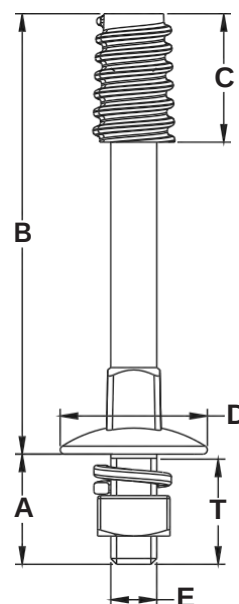
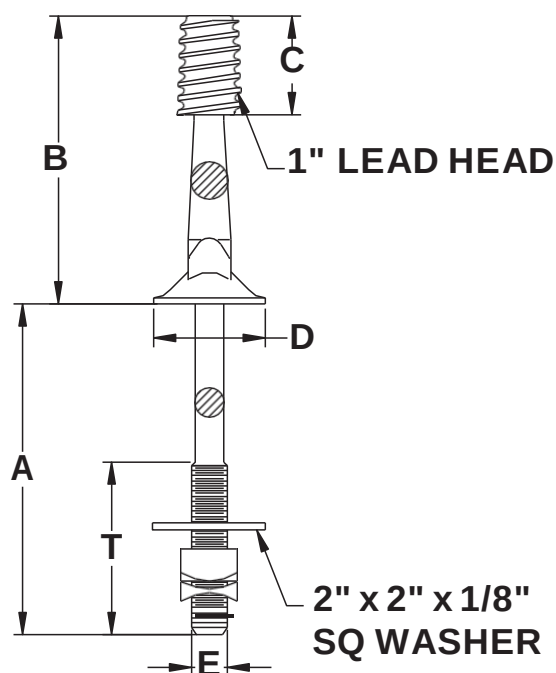
FIG. 2

CATALOG NUMBER	FIGURE NUMBER	DIMENSIONS LENGTH X WIDTH X THICKNESS	MOUNTING HOLE DIAMETER	APPROX. WEIGHT PER 100
U1019	1	4" X 1 3/4" X 1/4"	11/16"	73 LBS.
U1034	2	8" X 4" X 3/38"	3/16"	52 LBS.

THE ABOVE GUY HOOKS ARE USED WITH THE STRAIN PLATES TO PROVIDE PROTECTION TO THE FIBERS OF A WOOD POLE. THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



LOW VOLTAGE INSULATOR PINS



SHORT SHANK

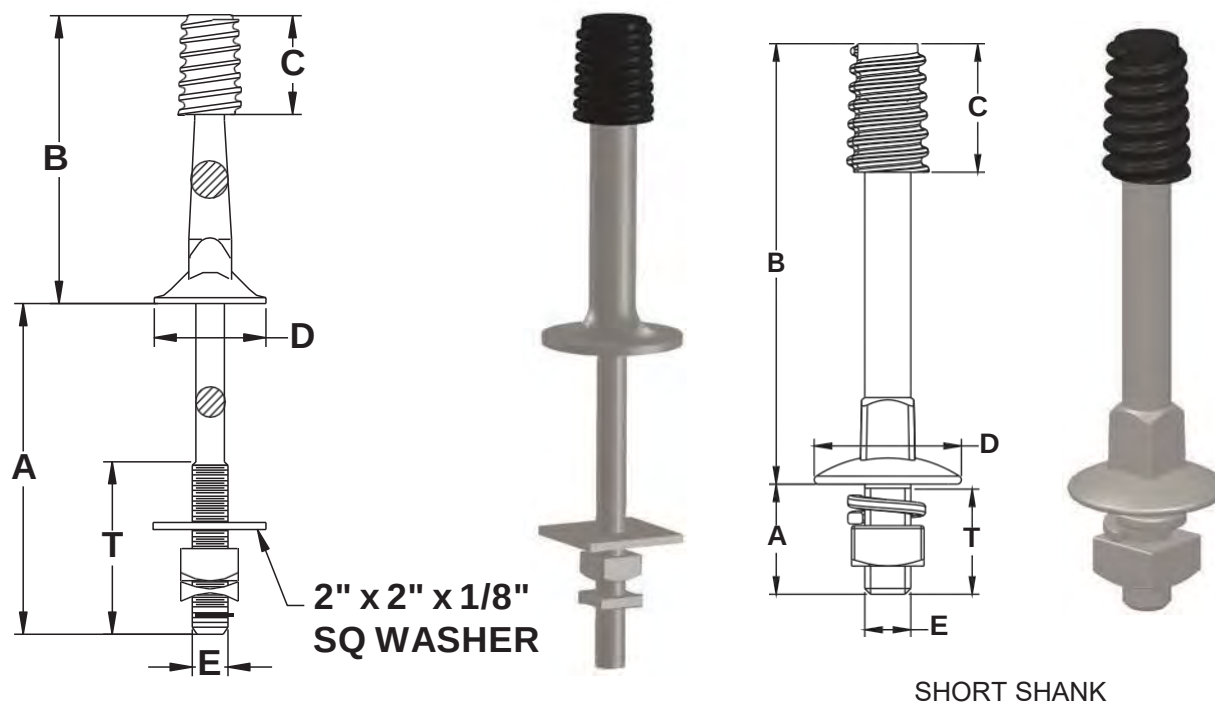
CATALOG NUMBER	CROSSARM TYPE	DIM. A	DIM. B	DIM. C MINIMUM	DIM. T	DIA. D	DIA. E	WT. PER 100
U203	WOOD	5 3/4"	5"	1 3/4"	4"	2"	5/8"	188 LBS.
U204	WOOD	6 1/2"	5"	1 3/4"	4"	2"	5/8"	188 LBS.
U206	WOOD	5 3/4"	6"	1 3/4"	2 3/4"	2"	5/8"	188 LBS.
U207	WOOD	6 1/2"	6"	1 3/4"	3"	2"	5/8"	194 LBS.
U209	WOOD	6 1/2"	8"	1 3/4"	4"	2 1/2"	5/8"	210 LBS.
U211	WOOD	6 1/2"	6"	1 3/4"	3 1/4"	2 1/2"	3/4"	280 LBS.
U221	STEEL SHORT SHANK	1 1/2"	5"	1 3/4"	1 3/8"	2"	5/8"	128 LBS.
U222	STEEL SHORT SHANK	1 1/2"	6"	1 3/4"	1 1/4"	2"	5/8"	150 LBS.
U224	STEEL SHORT SHANK	1 3/4"	6"	1 3/4"	1 5/8"	2 1/2"	3/4"	185 LBS.

THE ABOVE INSULATOR PINS ARE FOR USE ON LOW VOLTAGE INSULATORS HAVING ANSI 1" DIA. PIN HOLES. DEPENDING ON THEIR LENGTH, THESE PINS CAN BE USED FOR MOUNTING ON WOOD OR STEEL CROSSARMS.

THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



LOW VOLTAGE INSULATOR NYLON PINS



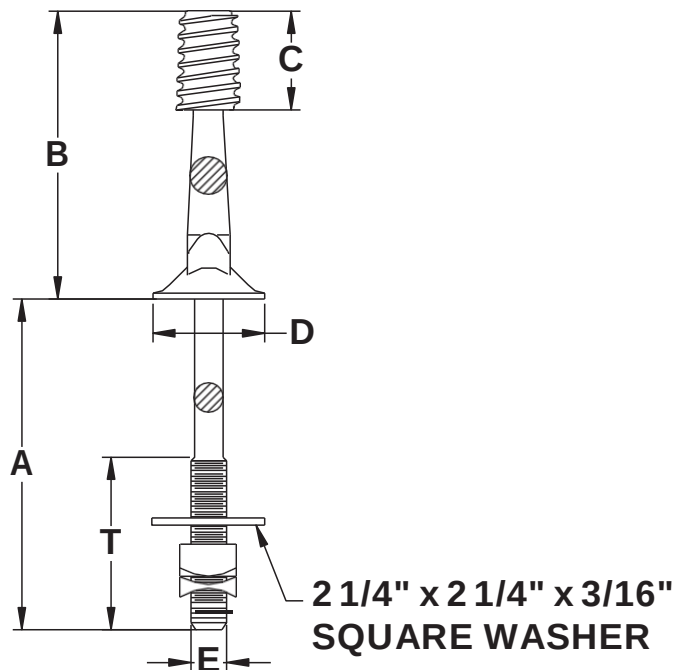
CATALOG NUMBER	CROSSARM TYPE	DIM. A	DIM. B	DIM. C MINIMUM	DIM. T	DIA. D	DIA. E	WT. PER 100
U203Z	WOOD	5 3/4"	5"	1 3/4"	4"	2"	5/8"	148 LBS.
U204Z	WOOD	6 1/2"	5"	1 3/4"	4"	2"	5/8"	158 LBS.
U206Z	WOOD	5 3/4"	6"	1 3/4"	2 3/4"	2"	5/8"	188 LBS.
U207Z	WOOD	6 1/2"	6"	1 3/4"	3"	2"	5/8"	194 LBS.
U209Z	WOOD	6 1/2"	8"	1 3/4"	4"	2 1/2"	5/8"	210 LBS.
U211Z	WOOD	6 1/2"	6"	1 3/4"	3 1/4"	2 1/2"	3/4"	280 LBS.
U221Z	STEEL SHORT SHANK	1 1/2"	5"	1 3/4"	1 3/8"	2"	5/8"	128 LBS.
U222Z	STEEL SHORT SHANK	1 1/2"	6"	1 3/4"	1 3/8"	2"	5/8"	130 LBS.
U224Z	STEEL SHORT SHANK	1 3/4"	6"	1 3/4"	1 5/8"	2 1/2"	3/4"	160 LBS.
U24365Z	STEEL SHORT SHANK	2 1/2"	7"	1 3/4"	2 3/8"	2 1/2"	3/4"	179 LBS.

THE ABOVE INSULATOR PINS ARE FOR USE ON LOW VOLTAGE INSULATORS HAVING ANSI 1" DIA. PIN HOLES. DEPENDING ON THEIR LENGTH, THESE PINS CAN BE USED FOR MOUNTING ON WOOD OR STEEL CROSSARMS.

THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



HIGH VOLTAGE INSULATOR PINS



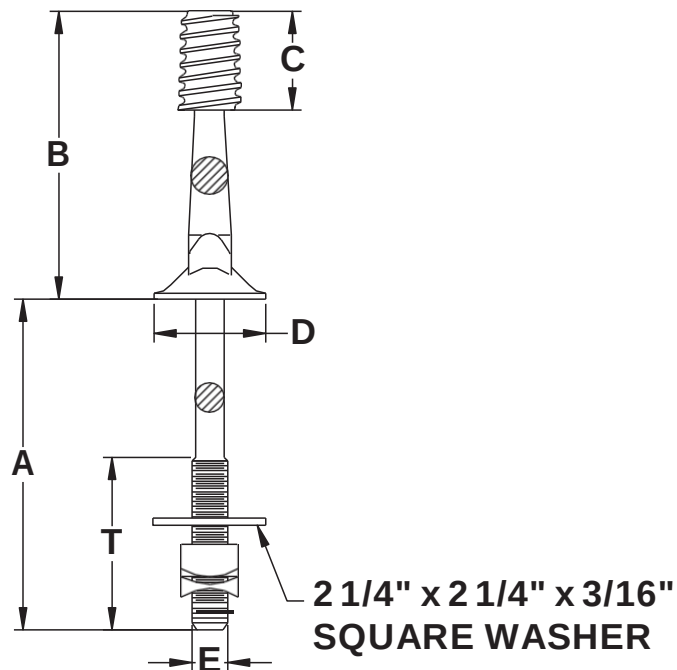
CATALOG NUMBER	DIAMETER OF PIN	DIM. "A"	DIM. "B"	DIM. "C" MINIMUM	DIM. "T"	DIA. "D"	DIA. "E"	WT. PER 100
U626	1"	6 1/2"	6"	2.13"	3 1/2"	2 3/4"	5/8"	245 LBS.
U607	1"	6 1/2"	7"	2.13"	3 1/2"	2 3/4"	3/4"	290 LBS.
U647	1 3/8"	7"	7"	2.13"	3 1/2"	3"	5/8"	346 LBS.
U608	1 3/8"	7"	8"	2.13"	3 1/2"	3"	3/4"	426 LBS.
U610	1 3/8"	10"	7"	2.13"	3 1/2"	3"	3/4"	460 LBS.

THE ABOVE INSULATOR PINS ARE FOR USE ON HIGH VOLTAGE INSULATORS HAVING ANSI 1" OR 1 3/8" PIN HOLE DIAMETERS. THE PINS ARE A ONE PIECE FORGED DESIGN WITH CAST LEAD THREADS. OTHER SIZES ARE AVAILABLE UPON REQUEST. MINIMUM QUANTITIES MAY APPLY.

THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



HIGH VOLTAGE INSULATOR NYLON PINS



CATALOG NUMBER	DIAMETER OF PIN	DIM. "A"	DIM. "B"	DIM. "C" MINIMUM	DIM. "T"	DIA. "D"	DIA. "E"	WT. PER 100
U626Z	1"	6 1/2"	6"	2.13"	3 1/2"	2 3/4"	5/8"	194 LBS.
U607Z	1"	6 1/2"	7"	2.13"	3 1/2"	2 3/4"	3/4"	282 LBS.
U647Z	1 3/8"	7"	7"	2.13"	3 1/2"	3"	5/8"	302 LBS.
U608Z	1 3/8"	7"	8"	2.13"	3 1/2"	3"	3/4"	482 LBS.
U610Z	1 3/8"	10"	7"	2.13"	3 1/2"	3"	3/4"	515 LBS.

THE ABOVE INSULATOR PINS ARE FOR USE ON HIGH VOLTAGE INSULATORS HAVING ANSI 1" OR 1 3/8" PIN HOLE DIAMETERS. THE PINS ARE A ONE PIECE FORGED DESIGN WITH CAST LEAD THREADS. OTHER SIZES ARE AVAILABLE UPON REQUEST. MINIMUM QUANTITIES MAY APPLY.

THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



POLE TOP PINS



Material

Pin Body: Steel hot dip galvanized

Threads: Lead

FIG. 1

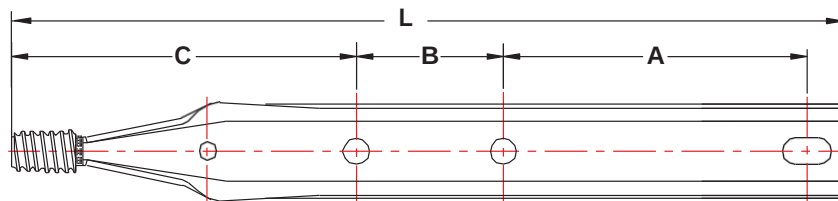
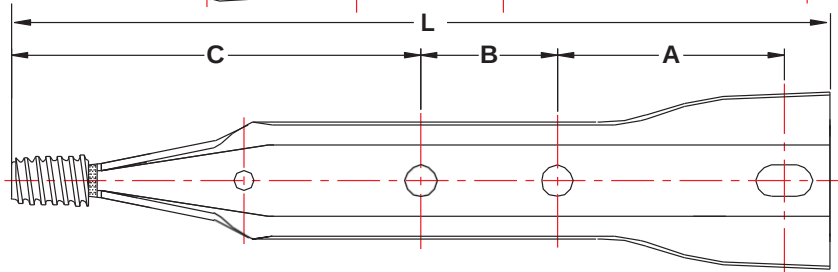


FIG. 2



CATALOG NUMBER	FIG. NO.	OVERALL LENGTH L	DIMENSION A	DIMENSION B	DIMENSION C	LEAD THREAD DIAMETER	WEIGHT PER 100
U715	1	15"	5"	2 HOLE ONLY	9"	1"	215 LBS.
U1368	1	18"	5"	3"	9"	1"	354 LBS.
U1220	1	20"	5"	3"	11"	1"	396 LBS.
U740	1	20"	8"	2 HOLE ONLY	11"	1"	355 LBS.
U744	1	24"	5"	3"	15"	1"	487 LBS.
U720	1	20 1/4"	8"	2 HOLE ONLY	11 1/4"	1 3/8"	398 LBS.
U2008	2	18"	5"	3"	9"	1"	272 LBS.
U2011	2	24"	8"	2 HOLE ONLY	15"	1 3/8"	492 LBS.

THE ABOVE POLE TOP PINS ARE MADE OF PRESSED STEEL AND CAN BE MOUNTED TO A POLE BY A 5/8" BOLT. EACH PIN STYLE OFFERED HAS LEAD INSULATOR THREADS.

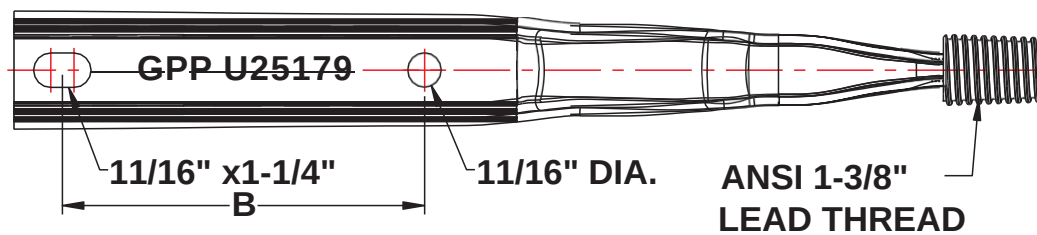
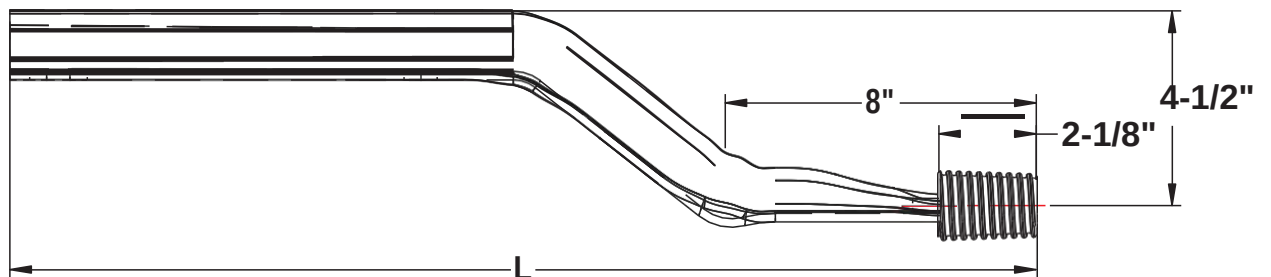
THE BOTTOM BOLT HOLE "S" IS SLOTTED 11/16" X 1 1/4" ON BOTH FIGURES SHOWN ABOVE.

FOR NYLON ALLOY THREADS ADD THE SUFFIX "Z" TO THE CATALOG NUMBER. (EXAMPLE: U720Z)

THE MATERIAL IS HOT DIPPED GALVANIZED TO ASTM A153.



OFFSET POLE TOP PINS

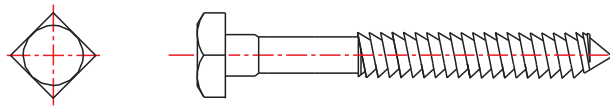


CATALOG NUMBER	LENGTH "L"(INCHES)	HOLE SPACING "B"(INCHES)	LEAD THREAD (INCHES)	WEIGHT PER 100 LBS
U25179	22.4"	8"	1-3/8"	600
U25179-1	22.4"	8"	1"	600



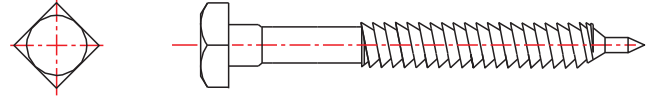
LAG SCREWS

FIG. 1



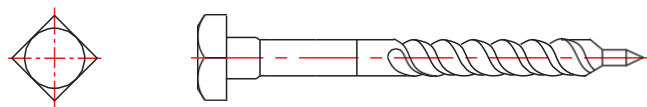
FETTER DRIVE REGULAR POINT

FIG. 2



FETTER DRIVE PILOT POINT

FIG. 3



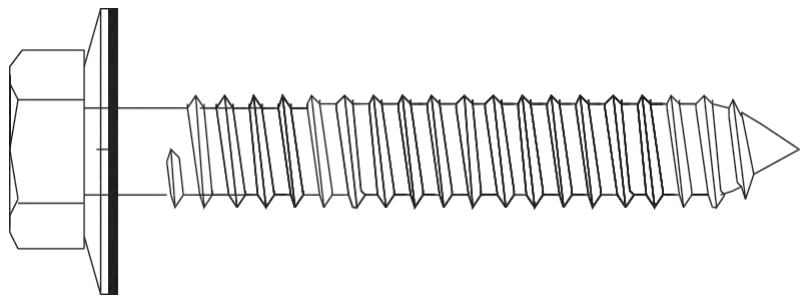
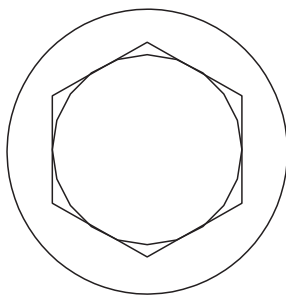
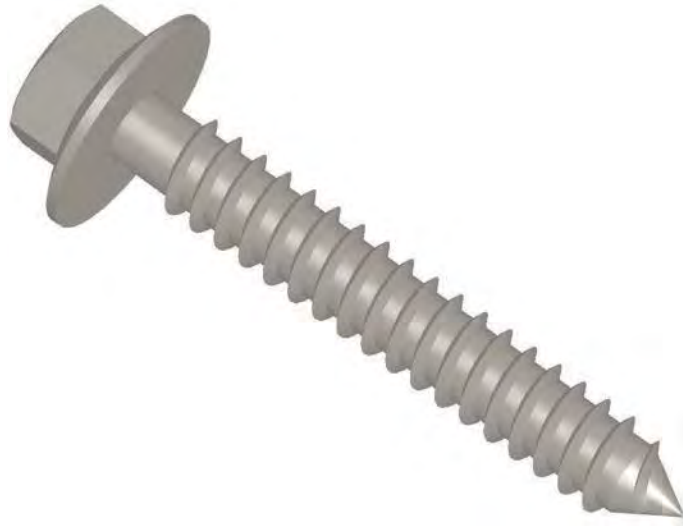
TWIST DRIVE

CATALOG NUMBER	FIGURE NUMBER	DIMENSION	MINIMUM THREAD LENGTH	APPROX. WEIGHT PER 100
U8652	1	1/4" X 2"	1 1/2"	2.7 LBS.
U8652- 1/2	1	1/4" X 2 1/2"	1 3/4"	3.3 LBS.
U8741	1	5/16" X 3"	1 7/8"	7.0 LBS.
U8742- 1/2	1	3/8" X 2 1/2"	1 3/4"	8.8 LBS.
U8743	1	3/8" X 3"	2"	9.9 LBS.
U8754	1	1/2" X 4"	2 1/2"	23 LBS.
U8743P	2	3/8" X 3"	2"	9.9 LBS.
U8744P	2	3/8" X 4"	2 1/4"	13 LBS.
U8753- 1/2P	2	1/2" X 3 1/2"	2 1/4"	20 LBS.
U8754P	2	1/2" X 4"	2 1/2"	23 LBS.
U8754- 1/2P	2	1/2" X 4 1/2"	2 3/4"	26.2 LBS.
U8756P	2	1/2" X 6"	3"	30
U8754TP	3	1/2" X 4"	2 1/2"	26 LBS.
U8754- 1/2TP	3	1/2" X 4 1/2"	2 5/8"	37 LBS.

THE ABOVE LAG SCREWS ARE OFFERED IN A VARIETY OF STYLES. EACH HAVE ROLLED THREADS AND CAN BE EITHER WRENCHED IN OR DRIVEN IN WITHOUT INTERFERING WITH ITS' HOLDING STRENGTH. THE MATERIAL IS HOT DIPPED GALVANIZED TO ASTM A153.



RISER SHIELD LAG SCREWS



CATALOG NUMBER	SCREW DIMENSION	APPROX. WEIGHT PER 100
RSS142	1/4" X 2"	14 LBS.

THE ABOVE LAG SCREWS ARE PRIMARILY USED TO ATTACH RISER SHIELD OR U GUARD TO A WOOD POLE . THIS HEX HEAD SCREW IS FURNISHED WITH A NEOPRENE WASHER AND A GIMLET POINT TO ENABLE THE INSTALLER TO EASILY PENETRATE THE WOOD POLE .

THE MATERIAL IS HOT DIPPED GALVANIZED TO ASTM A153.



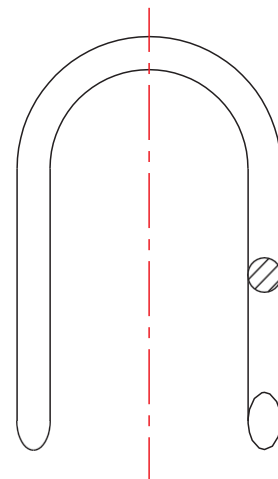
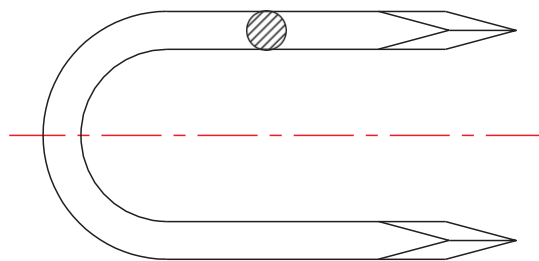
STAPLES



DIAMOND POINT



CUT POINT

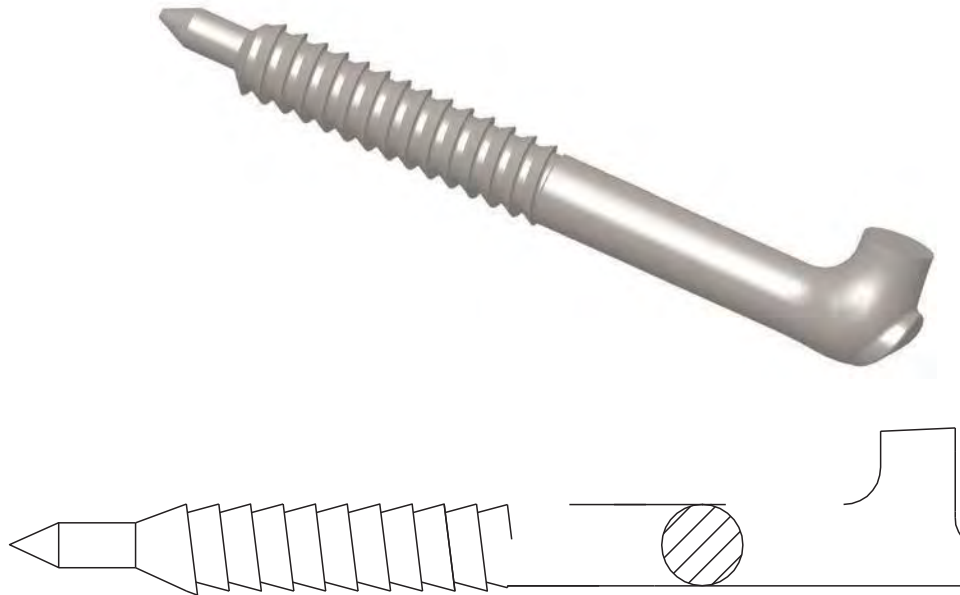


CATALOG NUMBER	STAPLE TYPE	DIMENSIONS LENGTH X INSIDE WIDTH X WIRE DIAMETER	APPROX. WEIGHT PER 100 STAPLES	STANDARD PACKAGE QUANTITY
U172	DIAMOND	1 1/2" X 3/8" X .148"	1.54 LBS.	5000
U156	DIAMOND	2" X 1/2" X .162"	2.5 LBS.	1000
U128	DIAMOND	3" X 1 1/16" X 1/4"	7.90 LBS.	1000
U142	DIAMOND	3" X 1 1/2" X 1/4"	8.30 LBS.	1000
U157	CUT POINT	2" X 1/2" X .162"	2.10 LBS.	2000
U1672G	CUT POINT	1 1/2" X 1/4" X .148"	1.40 LBS.	5000

THE ABOVE STAPLES ARE PRIMARILY USED FOR GROUND WIRE AND GROUND WIRE MOLDING.
THE MATERIAL USED IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



POLE STEPS



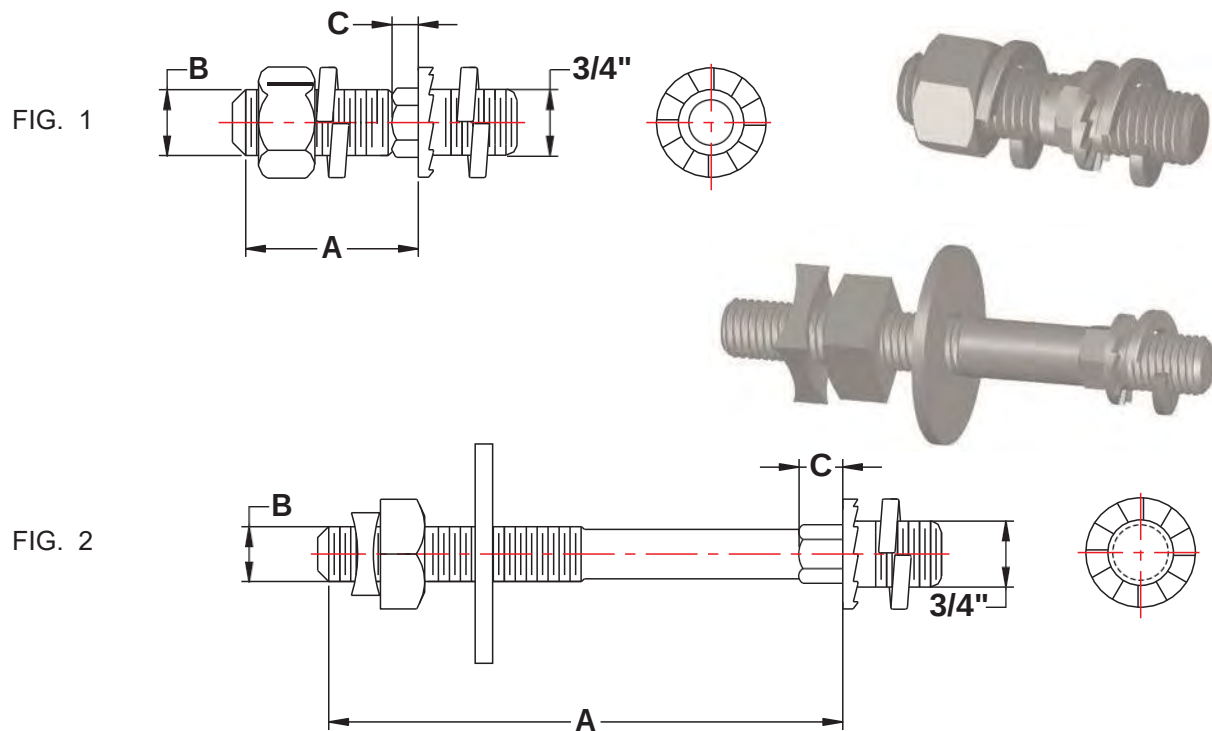
CATALOG NUMBER	SIZE	APPROX. WEIGHT PER 100
U1117	5/8" X 9"	83 LBS.
U1118	5/8" X 10"	95 LBS.

THE ABOVE POLE STEPS HAVE A FLAT HEAD AND ROLLED FETTER THREADS WHICH ALLOW THE INSTALLER TO EASILY DRIVE IT INTO THE POLE. A RING TYPE MARK ABOVE THE THREADS INDICATES THE PROPER DRIVING DEPTH.

THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



LINE POST INSULATOR STUDS



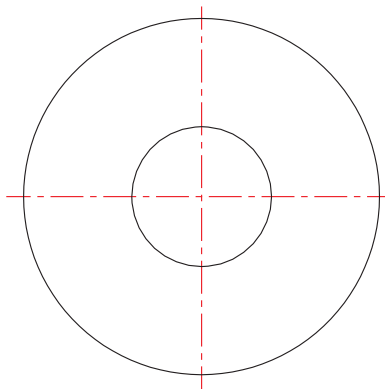
CATALOG NUMBER	FIG. NO.	CROSSARM TYPE	SHANK LENGTH "A"	SHANK DIAMETER "B"	DIMENSION COLLAR "C"	SHANK THREAD LENGTH	LINE POST RATING (KV)	APPROX. WEIGHT PER 100
LPS 5834	1	STEEL	1 3/4"	5/8"	1/4"	FULL	20 – 25	47 LBS.
LPS 3434	1	STEEL	1 13/16"	3/4"	1/4"	FULL	35 – 66	56 LBS.
LPS 3434L	1	STEEL	2 1/2"	3/4"	1/4"	FULL	35 – 66	58 LBS.
LPS 587	2	WOOD	7 9/16"	5/8"	1/2"	6"	20 – 25	120 LBS.
LPS 588	2	WOOD	8"	5/8"	1/2"	6"	20 – 25	125 LBS.
LPS 5810	2	WOOD	10"	5/8"	1/2"	6"	20 – 25	145 LBS.
LPS 5812	2	WOOD	12"	5/8"	1/2"	6"	20 – 25	190 LBS.
LPS 5814	2	WOOD	14 1/16"	5/8"	1/2"	8"	20 – 25	210 LBS.
LPS 347	2	WOOD	7 9/16"	3/4"	5/8"	4"	35 – 66	158 LBS.
LPS 349	2	WOOD	9 1/16"	3/4"	5/8"	4"	35 – 66	165 LBS.
LPS 3410	2	WOOD	10 1/16"	3/4"	5/8"	6"	35 – 66	178 LBS.
LPS 3412	2	WOOD	12 1/16"	3/4"	5/8"	6"	35 – 66	200 LBS.

THE ABOVE STUD BOLTS ARE USED TO ATTACH INSULATORS TO VARIOUS CROSSARM TYPES. THE STEEL ARM STUDS ARE FURNISHED WITH ONE REGULAR HEX NUT AND TWO SPRING LOCKWASHERS. THE WOOD ARM STUDS ARE FURNISHED WITH ONE REGULAR SQUARE NUT, ONE MF LOCKNUT, ONE FLAT SQUARE WASHER, AND ONE SPRING LOCKWASHER.

THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A 153.



GALVANIZED ROUND WASHERS



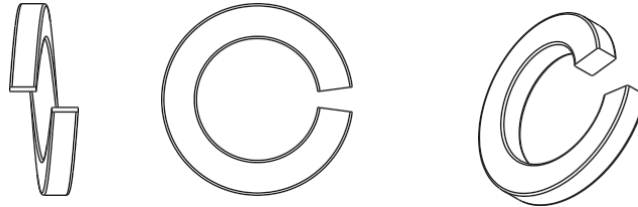
CATALOG NUMBER	OUTSIDE DIAMETER	WASHER THICKNESS	INSIDE DIAMETER	FOR BOLT DIAMETER	APPROX. WEIGHT PER 100
U1084	1"	3/32"	7/16"	3/8"	14 LBS.
U1086	1 3/8"	1/8"	9/16"	1/2"	44 LBS.
U1088	1 3/4"	1/8"	11/16"	5/8"	75 LBS.
U1089	2"	1/8"	13/16"	3/4"	91 LBS.

THE ABOVE ROUND WASHERS ARE MADE OF ROLLED STEEL HOT DIPPED GALVANIZED TO ASTM A153.

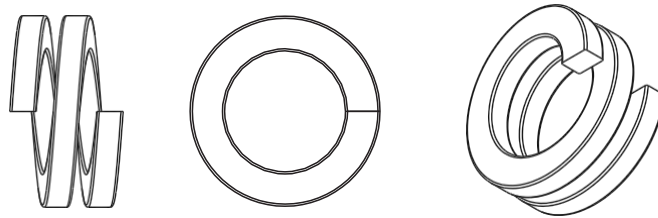


LOCK WASHERS

SINGLE COIL



DOUBLE COIL



CATALOG NUMBER	WASHER TYPE	SIZE SECTION	FOR BOLT DIAMETER	APPROX. WEIGHT PER 100
U134	SINGLE COIL	.141" - .094"	3/8"	.8 LBS.
U138	SINGLE COIL	.171" - .125"	1/2"	1.6 LBS.
U139	SINGLE COIL	.203" - .156"	5/8"	2.7 LBS.
U140	SINGLE COIL	.234" - .188"	3/4"	4.6 LBS.
U177	DOUBLE COIL	.203" - .156"	5/8"	4.1 LBS.
U178	DOUBLE COIL	.234" - .188"	3/4"	7.0 LBS.

THE ABOVE LOCK WASHERS ARE PRIMARILY USED TO KEEP A BOLT NUT IN TENSION UNDER ANY CONDITIONS. THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.

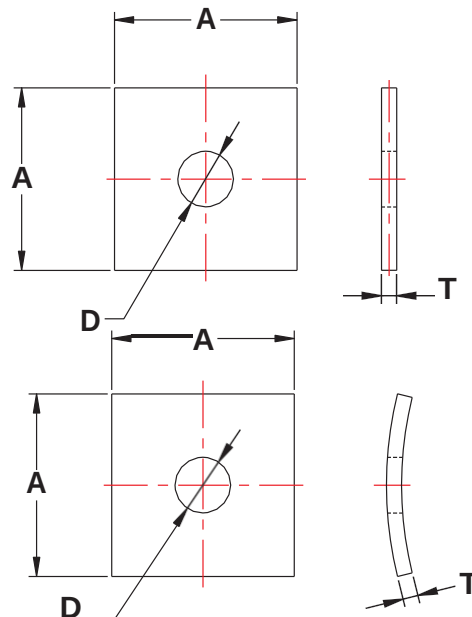


GALVANIZED SQUARE WASHERS

FIG 1



FIG. 2



CATALOG NUMBER	FIGURE NUMBER	DIMENSION A	DIMENSION D	DIMENSION T	APPROX. WEIGHT PER 100
U1073	1	2"	9/16"	1/8"	13 LBS.
U1074	1	2"	11/16"	1/8"	13 LBS.
U1075	1	2 1/4"	11/16"	3/16"	23 LBS.
U1076	1	2 1/4"	13/16"	3/16"	23 LBS.
U1077	1	3 1/2"	15/16"	3/8"	62 LBS.
U1079	1	3"	13/16"	1/4"	64 LBS.
U1079A	1	4"	11/16"	1/2"	222 LBS.
U1080	1	4"	7/8"	3/16"	75 LBS.
U1081	1	4"	1 1/8"	1/2"	194 LBS.
U113	2	3"	11/16"	1/4"	57 LBS.
U133	2	3 1/4"	13/16"	1/4"	76 LBS.
U6821	2	2 1/4"	11/16"	3/16"	26 LBS.
U6822	2	2 1/2"	11/16"	3/16"	34 LBS.
U6823	2	3"	13/16"	1/4"	56 LBS.
U6824	2	3 1/2"	1 1/8"	3/8"	60 LBS.
U6825	2	3 1/4" X 3 1/8"	13/16"	1/4"	71 LBS.
U6828	2	3 1/2"	15/16"	3/8"	130 LBS.
U6829	2	4"	15/16"	1/4"	117 LBS.
U6829A	2	4"	11/16"	1/4"	117 LBS.

THE ABOVE SQUARE WASHERS ARE USED PRIMARILY ON POLES AND CROSSARMS TO DISTRIBUTE THE STRESS EVENLY OVER THE SURFACE.

THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



M F LOCKNUTS & REGULAR SQUARE NUTS

FIG. 1

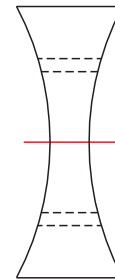
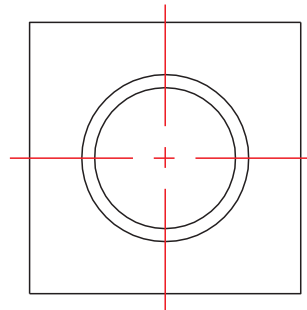
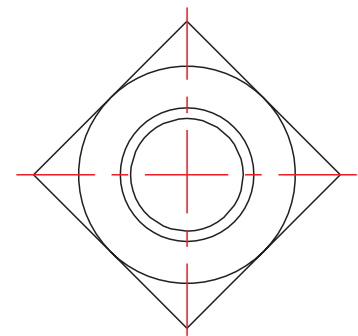
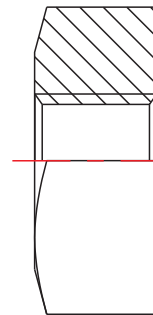
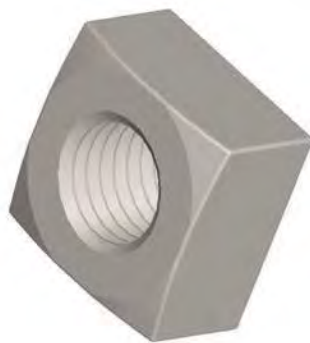


FIG. 2



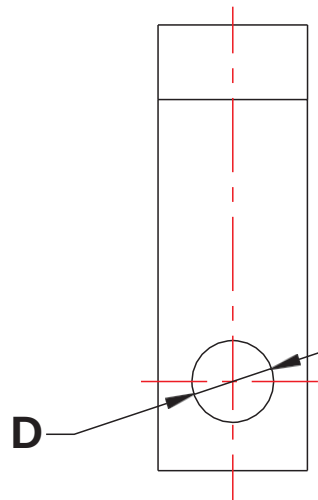
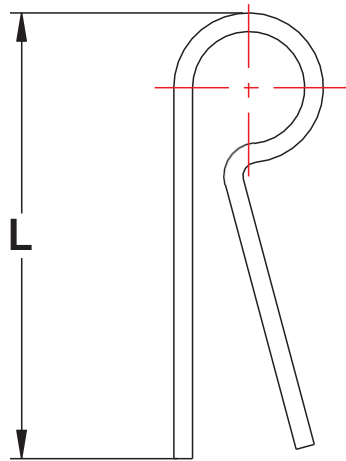
CATALOG NUMBER	FIGURE NUMBER	NOMINAL SIZE & THREADS PER INCH	APPROX. WEIGHT PER 100
U8581	1	3/8" – 16	1.3 LBS.
U8582	1	1/2" – 13	2.4 LBS.
U8583	1	5/8" – 11	4.2 LBS.
U8584	1	3/4" – 10	5.5 LBS.
U8584– 1/2	1	7/8" – 9	6.1 LBS.
U8561	2	3/8" – 16	2.2 LBS.
U8562	2	1/2" – 13	5.4 LBS.
U8563	2	5/8" – 11	10.2 LBS.
U8564	2	3/4" – 10	13.8 LBS.
U8564– 1/2	2	7/8" – 9	24.3 LBS.

THE ABOVE —MFI STYLE LOCKNUTS ARE USED TO SECURELY LOCK DOWN REGULAR NUTS.
THE SQUARE NUTS SHOWN IN FIGURE NUMBER 2 , ARE USED ON A VARIETY OF BOLT AND STUD HARDWARE.

THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



SPRING WASHERS



CATALOG NUMBER	FOR BOLT DIAMETER "D"	DIMENSION "L"	APPROX. WEIGHT PER 100
U3540	5/8"	3 3/4"	100 LBS.
U3541	3/4"	3 3/4"	98 LBS.

THE ABOVE SPRING WASHERS ARE PRIMARILY USED TO KEEP UNITS IN TENSION. OTHER SIZES ARE AVAILABLE UPON REQUEST. MINIMUM QUANTITIES MAY APPLY.

THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



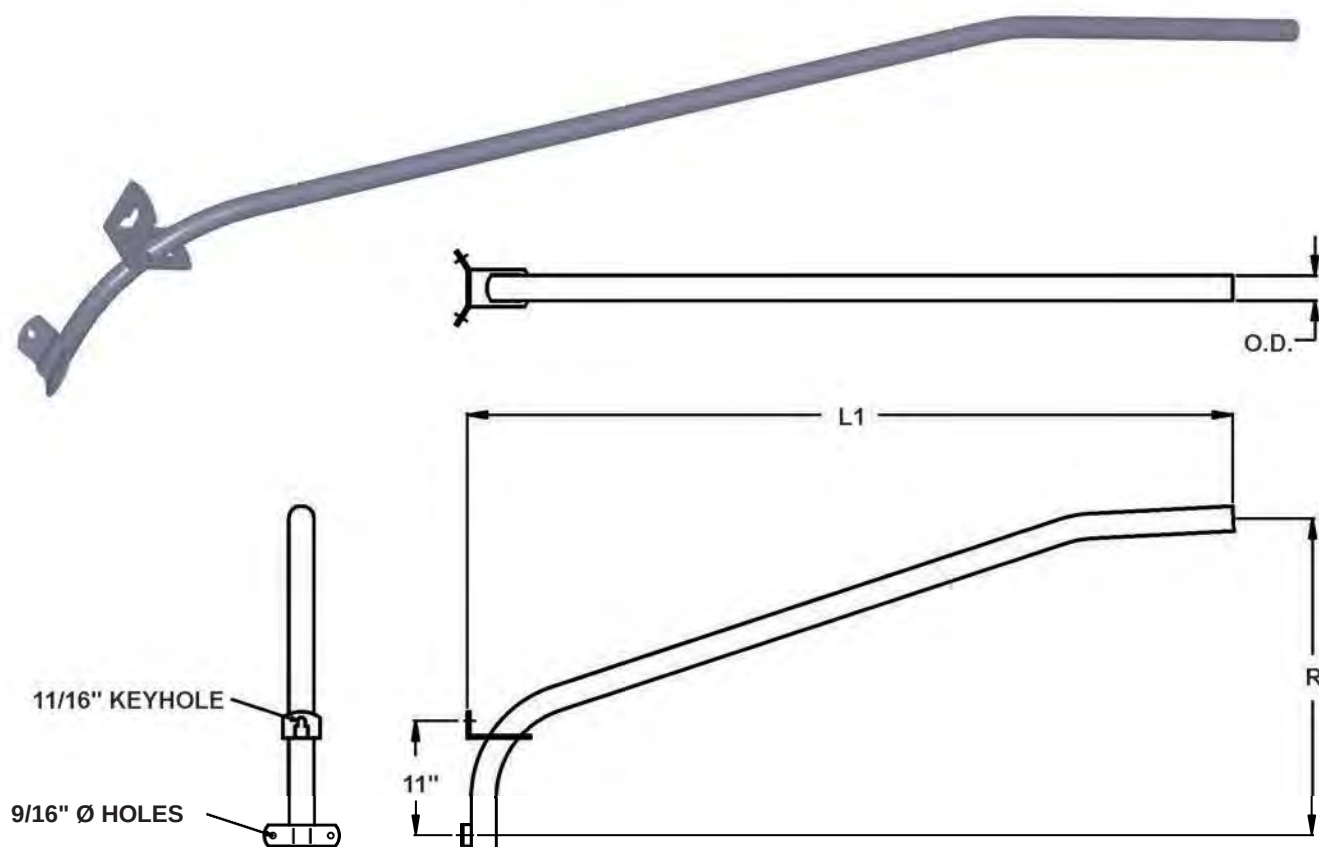
MAST ARMS, WOOD POLE MOUNTING

Features

- 3/8" grounding hardware included

Material

Steel hot dip galvanized or aluminum



Catalog Number	Material	OD (in)	L1	R	Weight Ea (lbs)
SLA-125-2	Steel	1.66	24	18	9.0
SLA-125-2.5	Steel	1.66	30	18	10.0
SLA-2-2.5	Steel	2.38	30	18	13.0
SLA-125-4	Steel	1.66	48	18	12.0
SLA-125-6	Steel	1.66	72	28	12.2
SLA-2-6	Steel	2.38	72	28	21.5
SLA-125-8	Steel	1.66	96	36	15.2
SLA-2-8	Steel	2.38	96	36	27.0
ALA-2-6	Aluminum	2.38	72	28	11.0
ALA-2-8	Aluminum	2.38	96	36	14.0

Notes:

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



CLAMPS

Aerial Cable, Messenger, Midspan

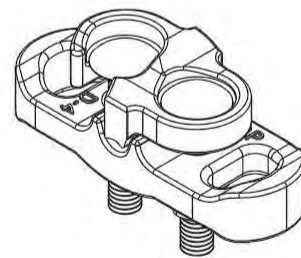
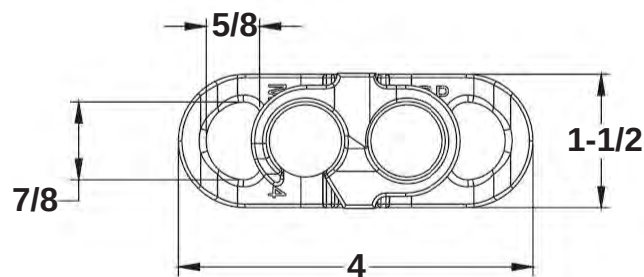
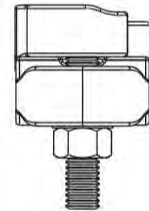
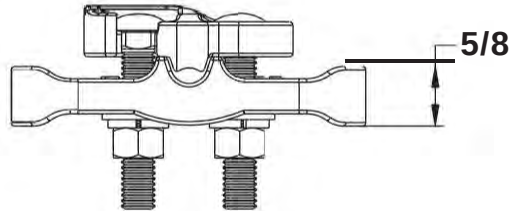
Features

- UMSD-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)
UMSD-4	3/8	0.23 – 0.42	52



FITTINGS, GUY

Sidewalk Guy

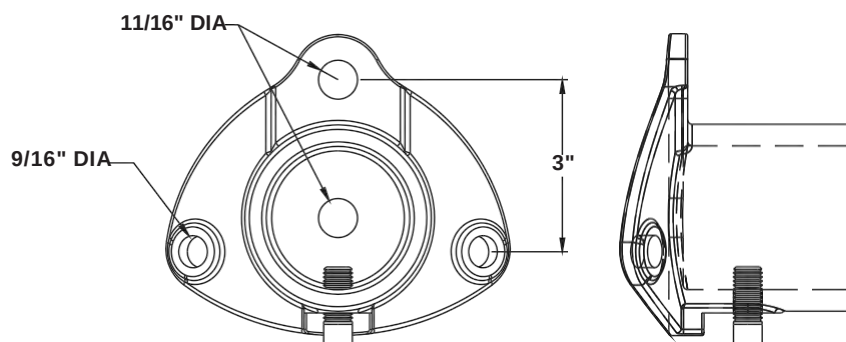
These cast iron fittings are used with standard pipe near sidewalks and buildings where there is insufficient space for standard guying and where head clearance must be maintained.

Material

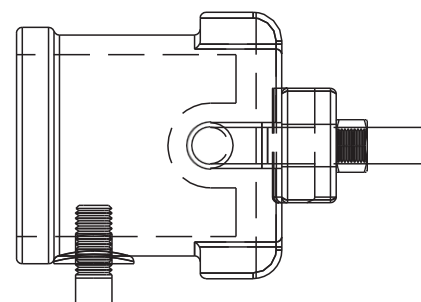
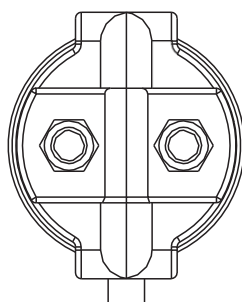
Ductile iron hot dip galvanized



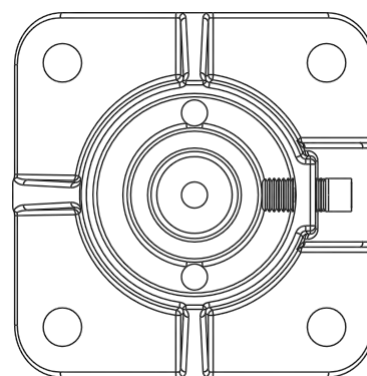
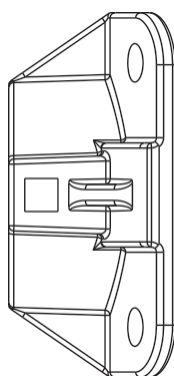
U1501HD



U1502HD



U0521



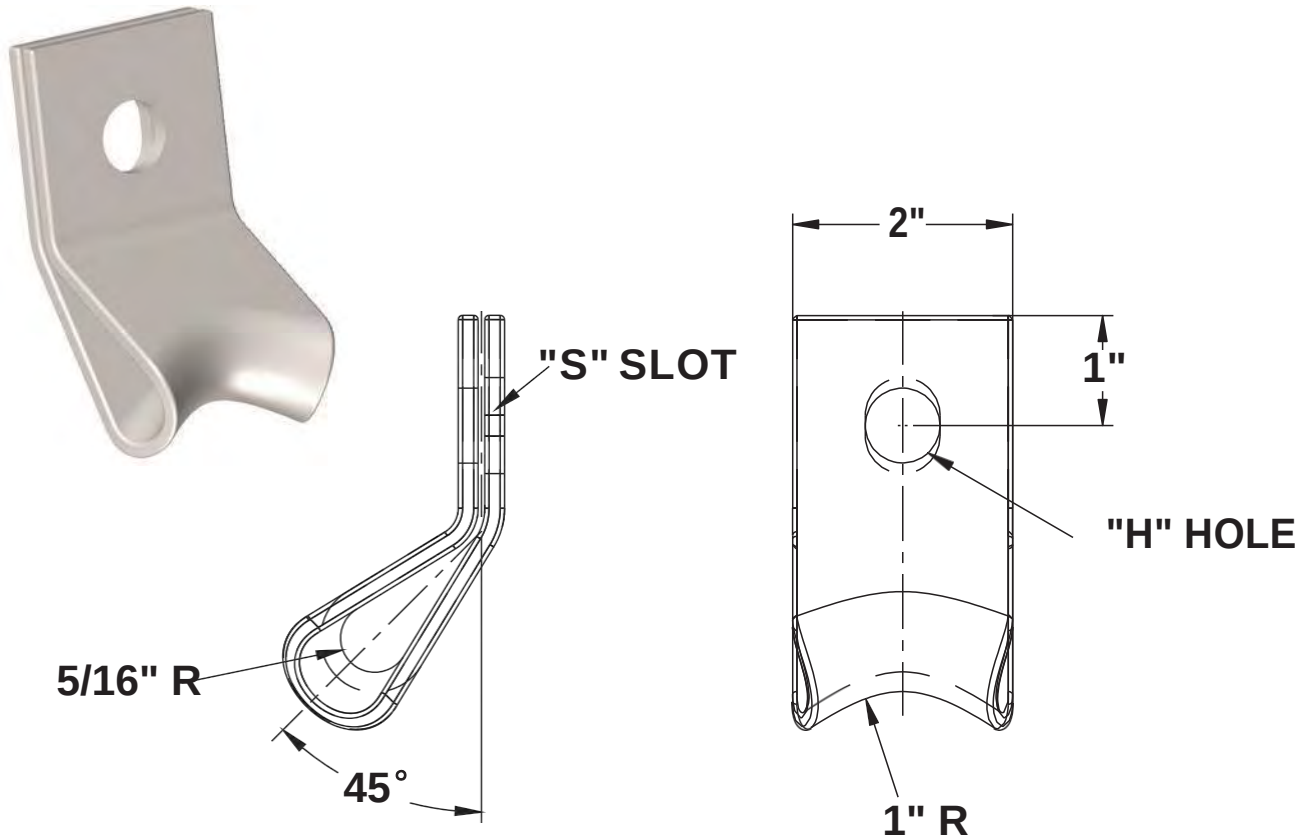
Catalog Number	Description	Wire Range	Pipe Size	Weight /100 (lbs)
U1502HD	Clamp End Fitting	1/4" to 9/16"	2	400
U1501HD	Pole Plate		2	225
U0521	Pole Plate		2 & 2 1/2	495



GUY HOOKS

Material

Formed steel hot dip galvanized



Catalog Number	Steel Size	Bolt Hole Dia	45°; Ultimate Str. (lbs)	Weight /100 (lbs)
U25164	2 x 3/16	11/16	10000	113



WIREHOLDERS

Service Mast, Nylon Alloy

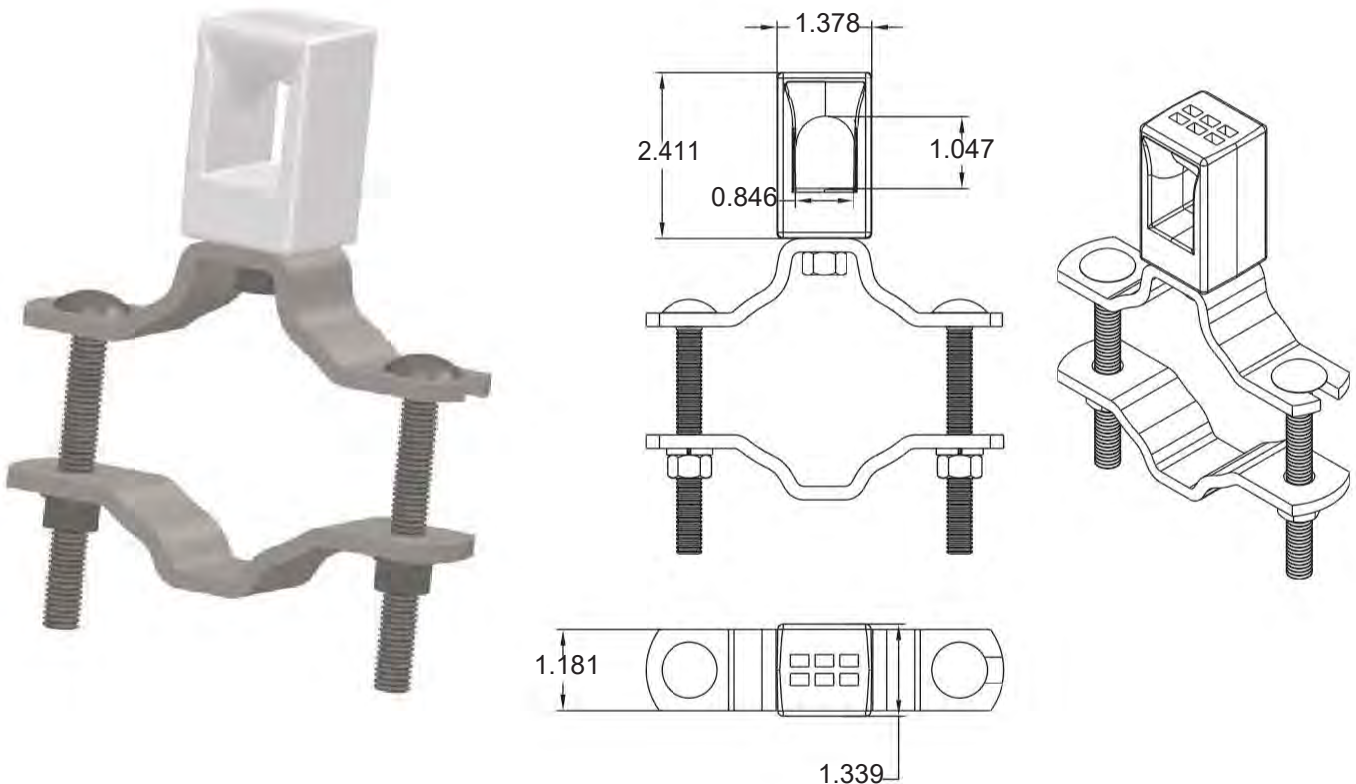
Features

- 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 2/3" through 3 1/2" diameter pipe

Material

Wireholder: Nylon alloy

Screw: Steel hot dip galvanized



Catalog Number	Color	Weight /100 (lbs)
U0588Z	Black	120
U0588ZG	Gray	120



WIREHOLDERS

Nylon Alloy Material Z-Series with Galvanized Screw

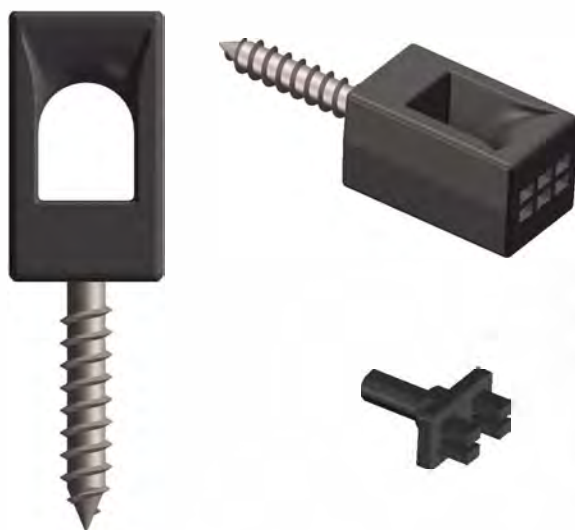
Features

- 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

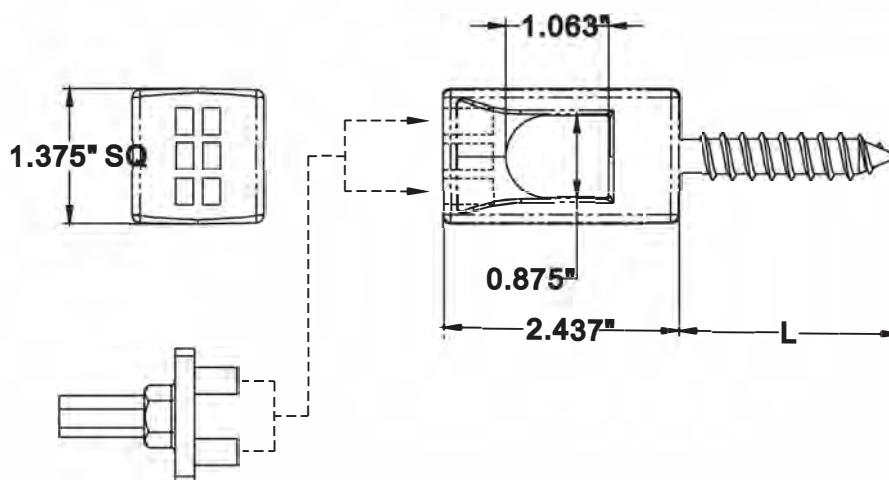
Material

Wireholder: Nylon alloy

Screw: Steel hot dip galvanized



Catalog Number	Lag Screw Dia (inches)	Color	“L” (inches)	Weight/ 100 (lbs)
U089Z	11/32 (#22)	Black	2 1/4	24
U0893Z	11/32 (#22)	Black	3	26
U0894Z	11/32 (#22)	Black	4	28
U089ZG	11/32 (#22)	Gray	2 1/4	24
U0893ZG	11/32 (#22)	Gray	3	26
U0894ZG	11/32 (#22)	Gray	4	28





PINS CROSSARM CLAMP TYPE

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.

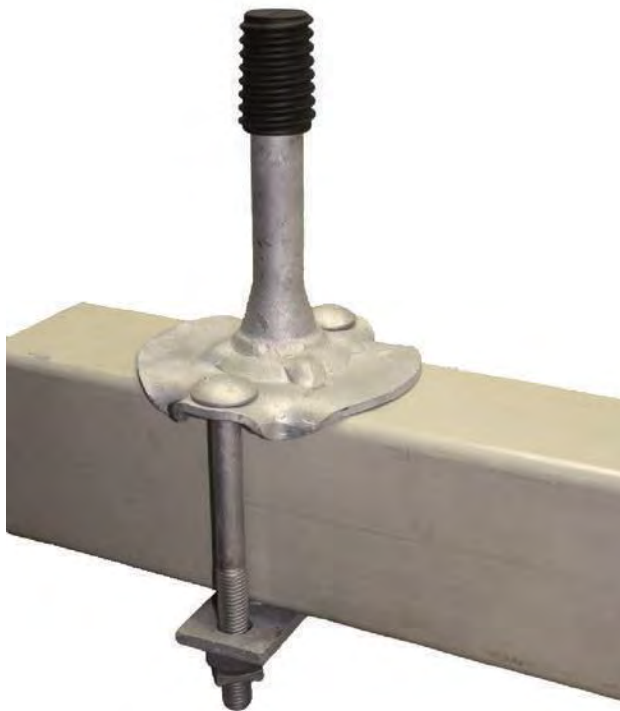
Features

- 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 prosection on one side to resist movement. Clamp plate could be

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)
U3322Z	1	3 3/4 x 4 3/4	6	452
U3324Z	1 3/8	3 3/4 x 4 3/4	7	553



ARMS, STEEL

Steel Arms

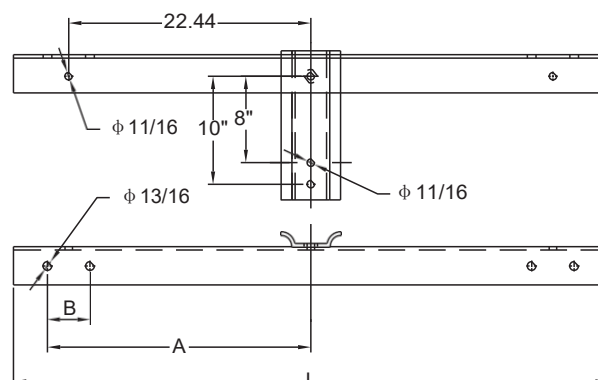
Steel crossarms are produced from structural steel angle or tubing for high strength deadend and tangent applications.

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

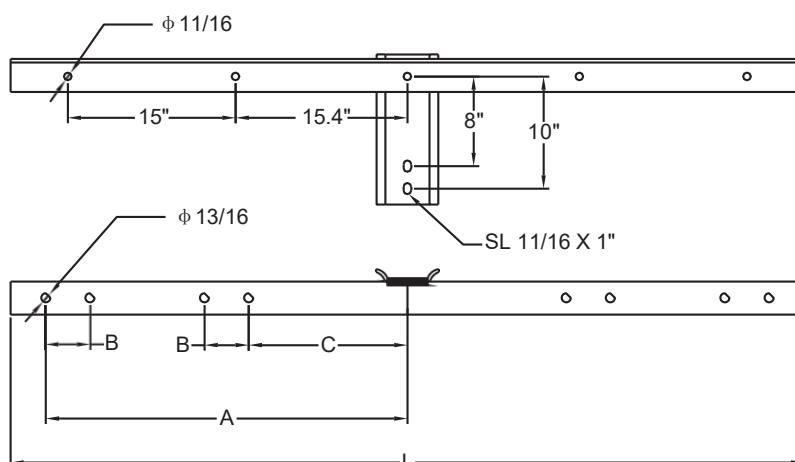
Steel hot dip galvanized



Steel Crossarm (3.5" x 3.5" x 5/16" Angle)					
Catalog Number	L	A	B	Ult Strength Rating Per Phase (lbs)	Weight Ea (lbs)
SACA516-55	55	24.4	4	5000	41

Notes:

- 1) Strength ratings based on balanced load applications



Steel Crossarm (3" x 3" x 5/16" Angle)						
Catalog Number	L	A	B	C	Ult Strength Rating Per Phase (lbs)	Weight Ea (lbs)
SACA516-70	70	32.3	4	14.2	4000	41.5

Notes:

- 1) Strength ratings based on balanced load applications



ARMS, STEEL

Steel Arms

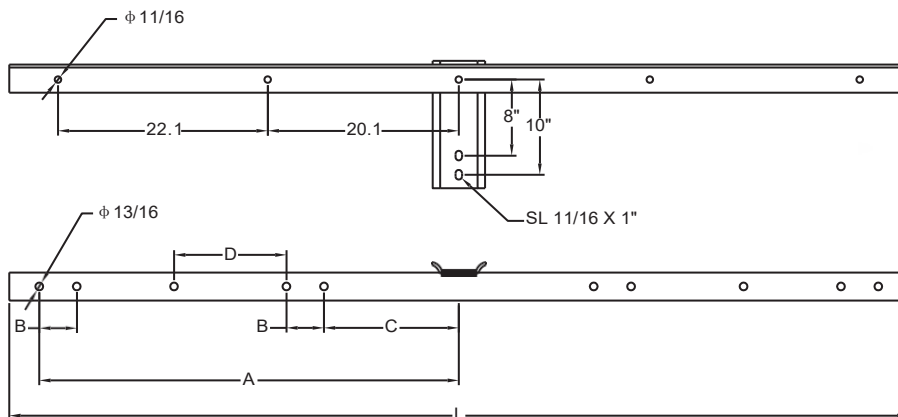
Steel crossarms are produced from structural steel angle or tubing for high strength deadend and tangent applications.

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

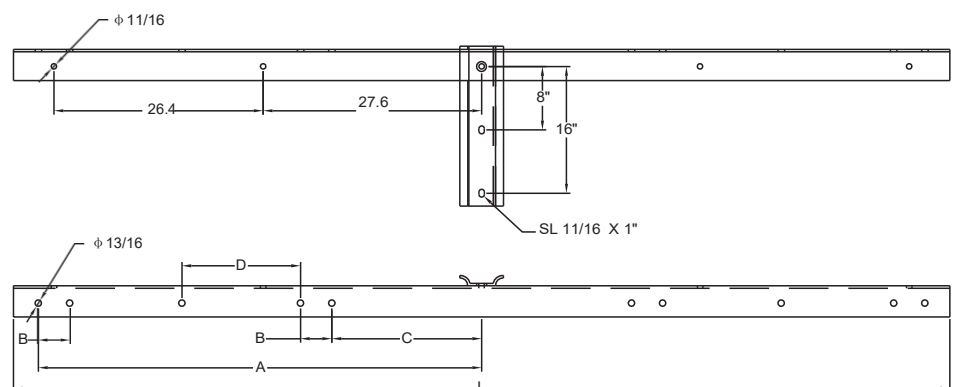


Steel Crossarm (3" x 3" x 5/16" Angle)

Catalog Number	L	A	B	C	D	Ult Strength Rating Per Phase (lbs)	Weight Ea (lbs)
SACA516-94.5	94.5	44.1	4	14.2	11.8	4000	53.2

Notes:

- 1) Strength ratings based on balanced load applications



Steel Crossarm (4" x 4" x 5/16" Angle)

Catalog Number	L	A	B	C	D	Ult Strength Rating Per Phase (lbs)	Weight Ea (lbs)
SACA516-118	118	56	4	19	15	6000	90.8

Notes:

- 1) Strength ratings based on balanced load applications



ARMS, STEEL

Steel Arms

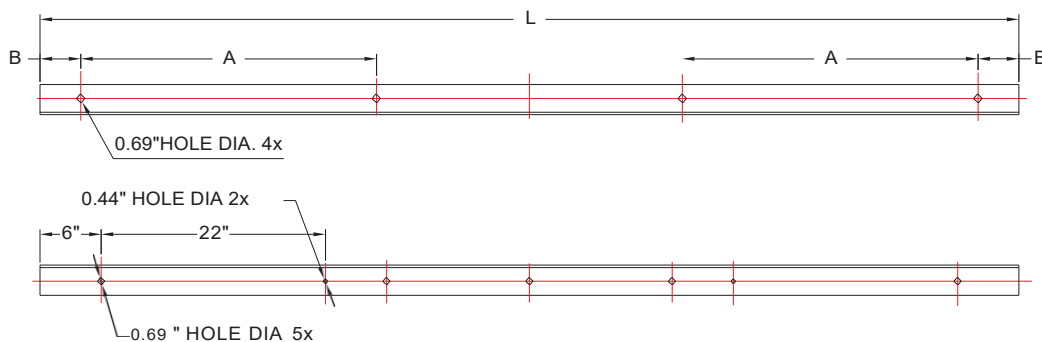
Steel crossarms are produced from structural steel angle or tubing for high strength deadend and tangent applications.

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

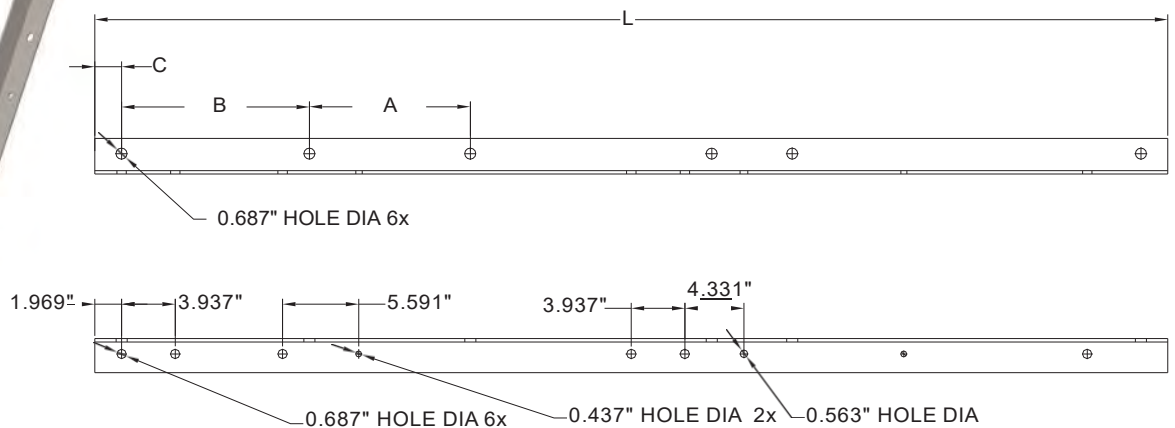
Steel hot dip galvanized



Catalog Number	Steel Angle	L	A	B	Ult Strength Rating Per Phase (lbs)	Weight Ea (lbs)
SACA14-3-96	2.5"x2.5"x1/4"	96	29	4	3000	36.6
SACA14-96	3"x3"x1/4"	96	29	4	3000	28.5

Notes:

- 1) Strength ratings based on balanced load applications



Steel Crossarm (2. 48" x 2. 48" x 1/4" Angle)

Catalog Number	L	A	B	C	Ult Strength Rating Per Phase (lbs)	Weight Ea (lbs)
SACA14-79	79	11.811	13.78	1.969	2500	24.5

Notes:

- 1) Strength ratings based on balanced load applications



ARMS, STEEL

Steel Arms

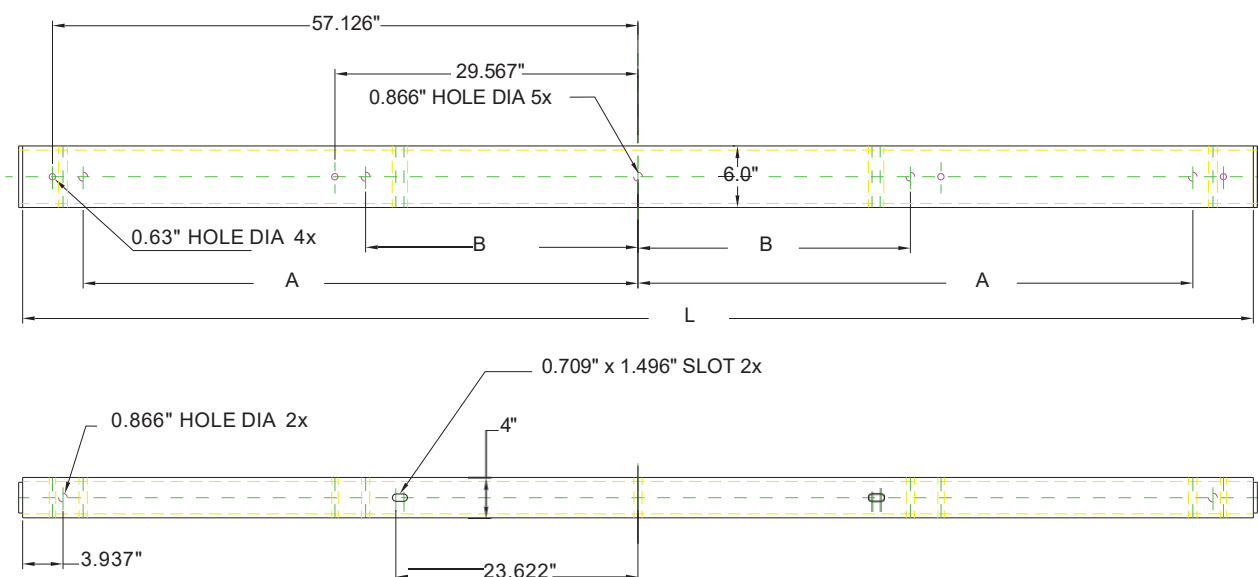
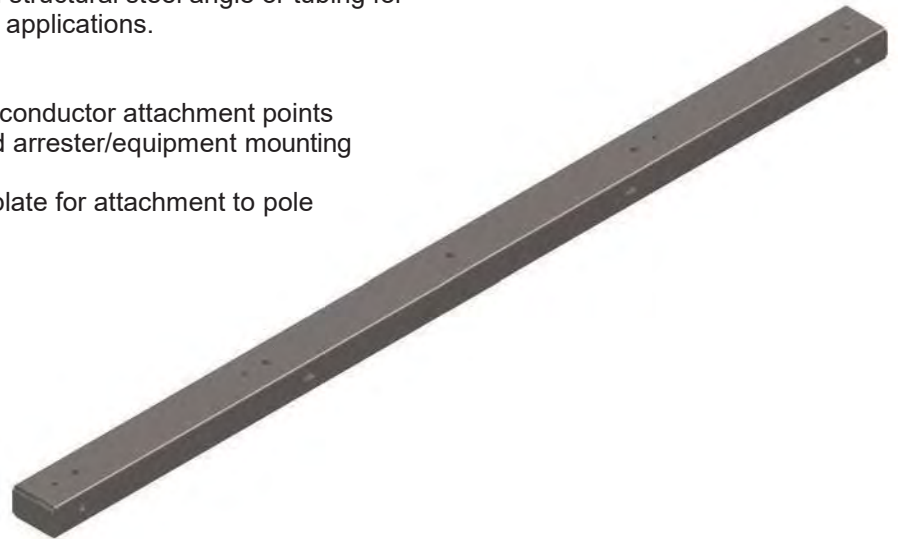
Steel crossarms are produced from structural steel angle or tubing for high strength deadend and tangent applications.

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 (4" x 6" x .313" Tube)

Catalog Number	L	A	B	Ult Strength Rating Per Phase (lbs)	Weight Ea (lbs)
SACA46-120	120	54.134	26.575	7000	203

Notes:

1) Strength ratings based on balanced load applications



ARMS, STEEL

Steel Arms

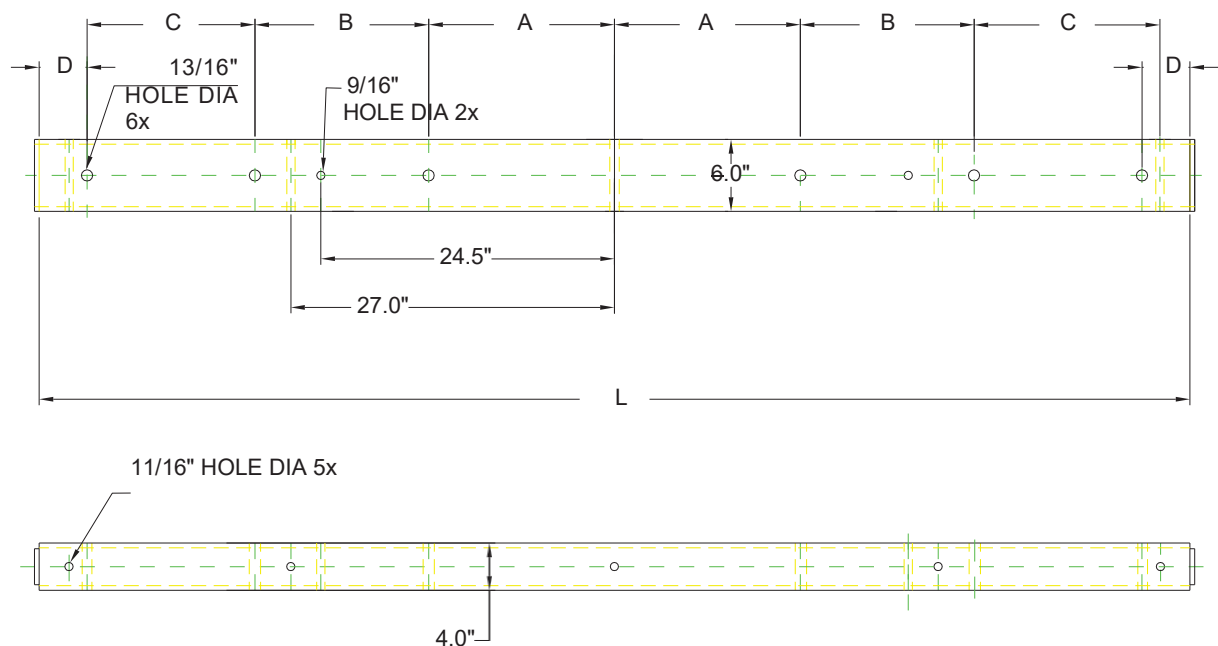
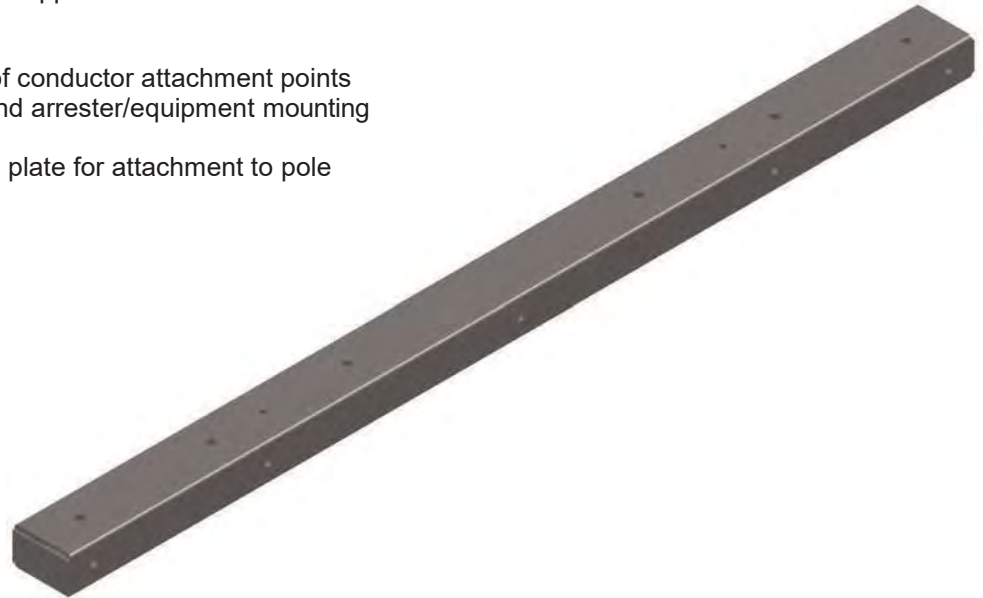
Steel crossarms are produced from structural steel angle or tubing for high strength deadend and tangent applications.

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 (4" x 6" x .313" Tube)

Catalog Number	L	A	B	C	D	Ult Strength Rating Per Phase (lbs)	Weight Ea (lbs)
SACA46-96	96	15.5	14.5	14	4	7000	159

Notes:

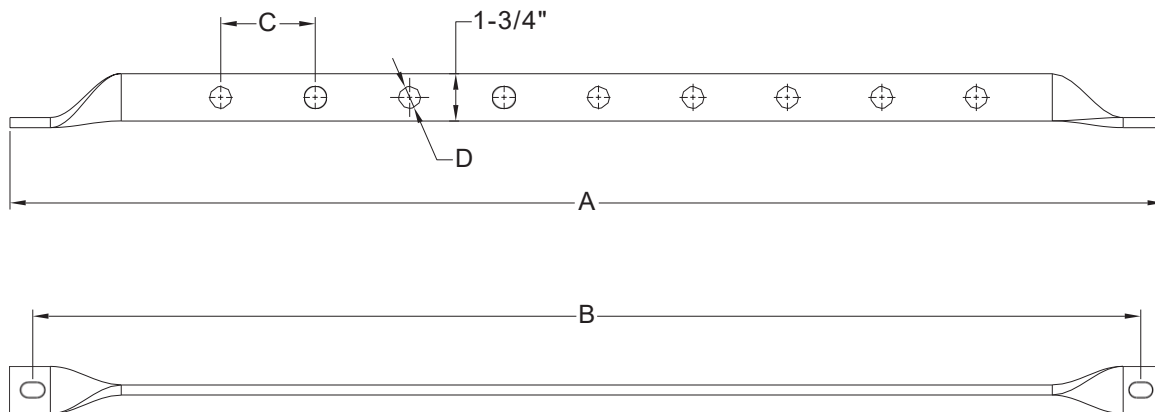
- 1) Strength ratings based on balanced load applications



CABLE RACKS

Nob-Loc Racks

Manufactured from 3/8" x 1 3/4" steel.
Can accommodate from one to 9 supports.



Catalog Number	No. of Support Holes	Dimensions (in.)				Weight 100 Pcs.
		"A"	"B"	"C"	"D"	
U2147	1	14 3/4	13	—	13/16	260 lbs.
U2148	3	28 3/4	27	7	13/16	500 lbs.
U2149	9	42 3/4	41	3 1/2	13/16	740 lbs.





PINS ANGLE CROSSARM

Angle Crossarm

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

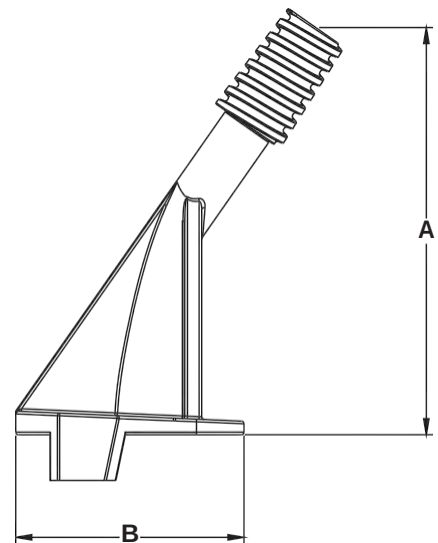
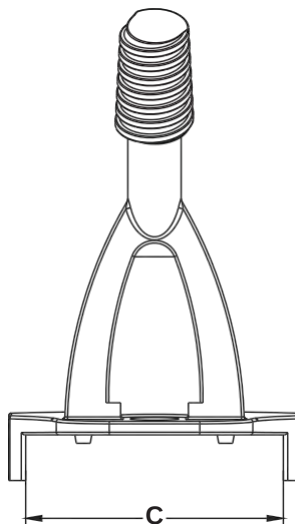
Features

- 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)
U8779Z	Nylon Alloy	1	6	3.375	3.8	315

Notes:

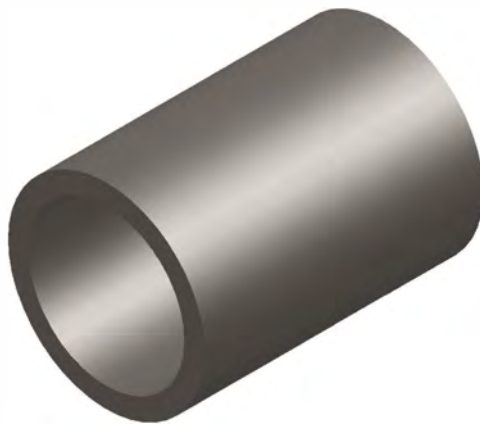
- 1) Include: 5/8" x 7" machine bolt; 5/8" square nut; and square fat



SPACER, PIPE

Material

Steel hot dip galvanized



Catalog Number	Description	Length, Inches	Pipe, Inches (I.D.)	Weight /100(lbs)
U2031	Spacer	1-1/2	3/4	16

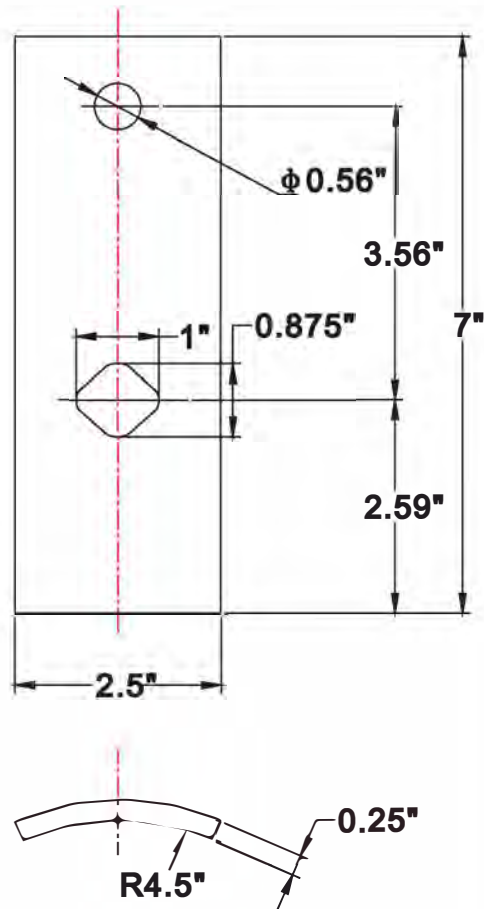


PLATES, LIFT AND LOAD

Used to protect poles on heavy down guying when Thimbleye, Angle-Thimbleye or Oval-Eye bolts are used through the pole. Hot dip galvanized.

Material

Steel hot dip galvanized



Catalog Number	Description	Size Holes, Inches		Plate Size, Inches	Weight /100(lbs)
		Top	Bottom		
U7888	2-Hole Lift	9/16	7/8 x 1	1/4 x 2-1/2 x 7	116



TRANSFORMER MOUNTING

Material

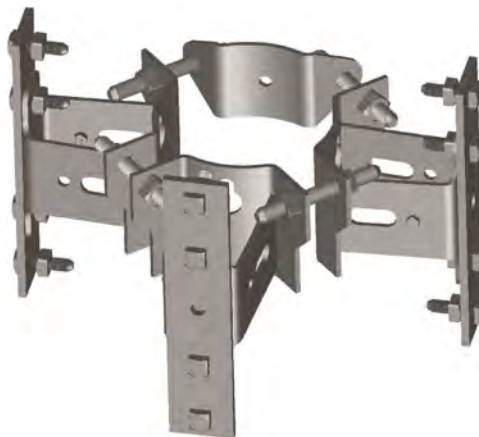
Steel hot dip galvanized



U115



U215



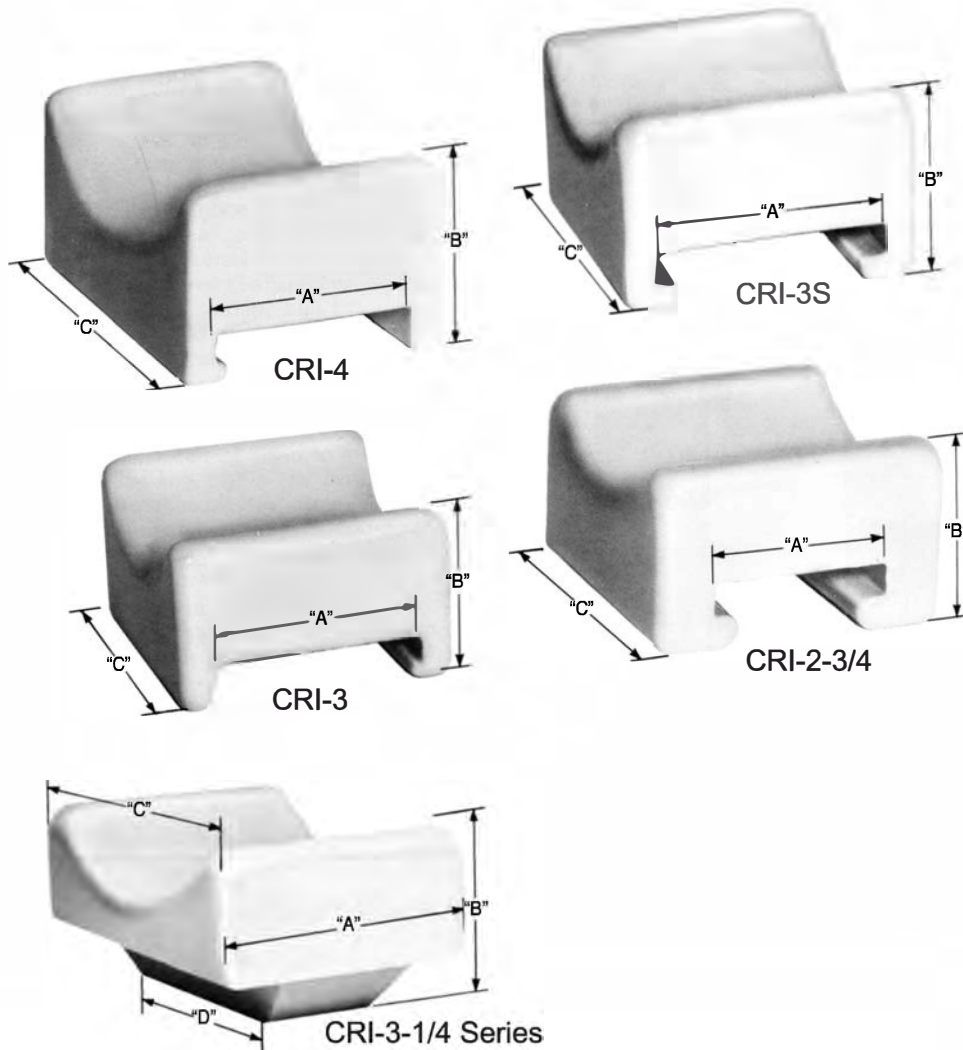
U315

Accessories Description (In Quantity Of Parts)	U115	U215	U315
Crowned Plate	3	2	1
Crowned Plate With Bracket	1	2	3
Guy Clamp with hexagonal bolt 3/8" x 1"	1	2	3
Machine Bolt 5/8"x2" full threaded	4	8	12
Double Arming Bolt 3/4"x 6.1/2" with 02 square Nuts	4	4	4
Flat Plate	1	2	3
Total Weight/(lbs)	27.5	39	50



CABLE SUPPORT INSULATORS

High-grade electrical porcelain insulators with rounded corners and edges prevent cable-sheath damage.



Catalog No.	Dimensions (in.)				Groove Radius	Accommodates Support (Catalog No. Series)	Std. Pkg.	Weight 100 Pcs.
	"A"	"B"	"C"	"D"				
CRI-4	2-1/16	2-1/16	4	-	2-1/16	DU1S, DU3S	50 pcs.	112 lbs.
CRI-3S	2-1/16	1-3/4	3	-	1-7/16	DU3S	50 pcs.	76 lbs.
CRI-3	2-1/16	1-3/4	3	-	1-7/16	DU1S, DU3S	50 pcs.	74 lbs.
CRI-2-3/4	1-5/8	1-11/16	2-3/4	-	1-1/2	DU5S	50 pcs.	78 lbs.
CRI-3-1/4	2-1/2	1-5/8	3-1/4	1-3/8	1-3/4	DU3S, DU9S	50 pcs.	70 lbs.



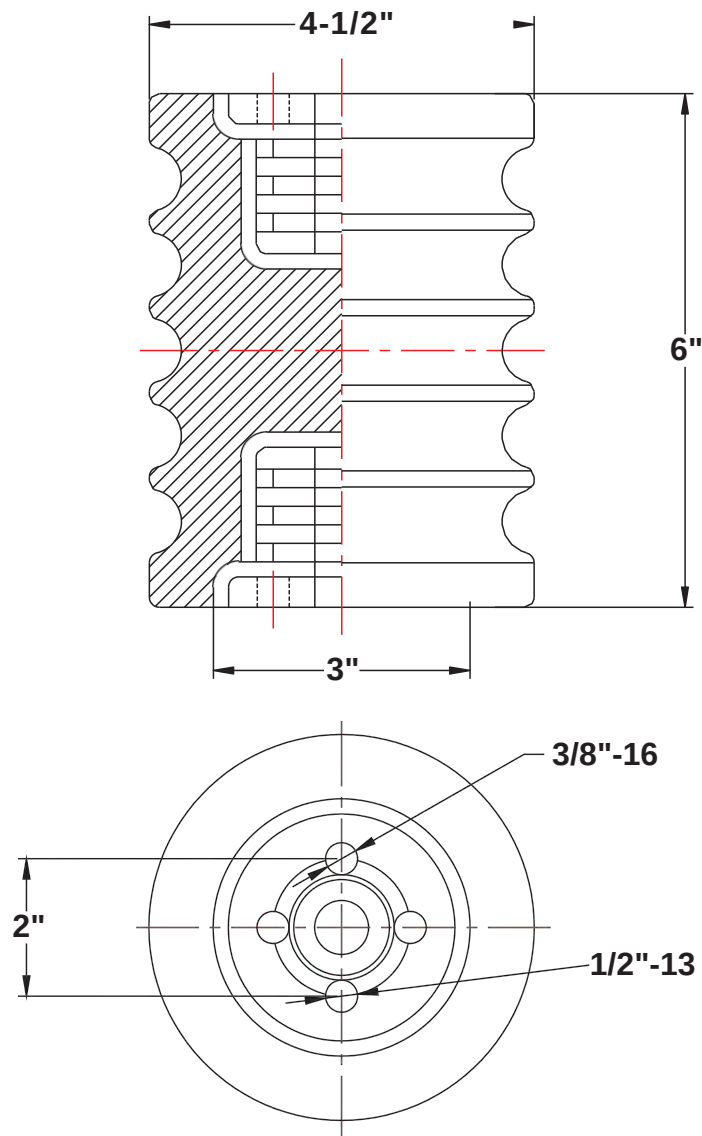
INDEX

SECTION 5 - INSULATORS

INDOOR BUS SUPPORT INSULATORS CLASS A 10 PORCELAIN	5-1
INDOOR BUS SUPPORT INSULATORS CLASS A 20 PORCELAIN	5-2
LOW VOLTAGE PIN TYPE INSUATORS PORCELAIN	5-3
15KV PIN INSULATOR FOG BOWL TYPE.....	5-3A
HIGH VOLTAGE PIN TYPE INSULATORS PORCELAIN	5-4
CLAMP TOP POST INSULATORS PORCELAIN.....	5-5
SPOOL INSULATORS PORCELAIN.....	5-6
STATION POST INSULATORS PORCELAIN	5-7
GUY STRAIN INSULATORS PORCELAIN.....	5-8
SUSPENSION INSULATORS PORCELAIN	5-9
SUSPENSION INSULATORS PORCELAIN	5-10
TIE TOP POST INSULATORS PORCELAIN STUD BASE	5-11
LINE POST INSULATOR "F" NECK TYPE PORCELAIN STUD BASE	5-12
POLYMER INSULATORS 161 KV LINE POST.....	5-13
POLYMER INSULATORS 69 KV SUSPENSION CLEVIS BALL	5-14
POLYMER INSULATORS 35 KV SUSPENSION SOCKET BALL.....	5-15
POLYMER INSULATORS 15 KV, 25 KV, 35 KV, CLEVIS EYE.....	5-16



INDOOR BUS SUPPORT INSULATORS CLASS A 10 PORCELAIN

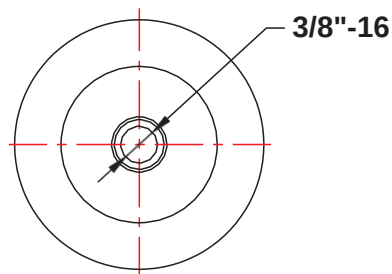
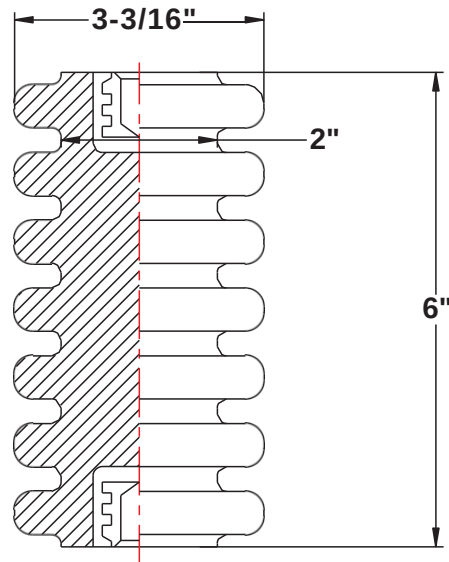


CATALOG NUMBER	NOMINAL VOLTAGE	IMPULSE WITHSTAND	WEIGHT EACH
UA10 – 2337	13.8 — 15 kV	95 — 110 kV Bil	3 LBS.

THE ABOVE INDOOR BUS SUPPORTS ARE MANUFACTURED IN ACCORDANCE TO ANSI C29.10.



INDOOR BUS SUPPORT INSULATORS CLASS A 20 PORCELAIN



ELECTRICAL VALUES

CATALOG NUMBER	NEMA CLASS NUMBER	NEMA VOLTAGE RATING	NOMINAL VOLTAGE RATING	IMPULSE WITHSTAND kV	60 Hz. WITHSTAND DRY, kV	60 Hz. WITHSTAND DEW, kV	SHIPPING WEIGHT EACH
UA20 – 527	A – 20	13.2	15L	95	36	26	8.5 LBS.

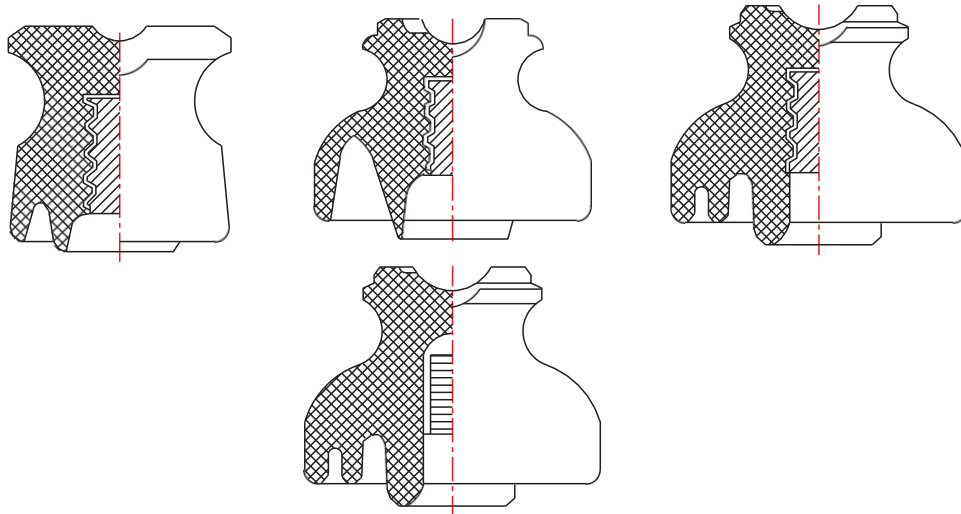
MECHANICAL VALUES

CATALOG NUMBER	CANTILEVER STRENGTH 2 1/2" ABOVE, POUNDS	TENSILE STRENGTH POUNDS	TORSION STRENGTH POUNDS	COMPRESSION STRENGTH POUNDS
UA20 – 527	1250	3000	3500	20000

THE ABOVE INDOOR BUS SUPPORTS ARE MANUFACTURED IN ACCORDANCE TO ANSI C29.10. MOUNTING HOLES CAN BE TAPPED TO DESIRED DIAMETER BY THE CUSTOMER.



LOW VOLTAGE PIN TYPE INSULATORS PORCELAIN



CATALOG NUMBER	ANSI CLASS	STANDARD PACKAGE	APPROX. WEIGHT EACH
U55 – 2 G	55 – 2	32	2.65 LBS.
U55 – 3 G	55 – 3	24	3.3 LBS.
U55 – 4 G	55 – 4	12	3.5 LBS.
U55 – 5 G	55 – 5	6	6.2 LBS.

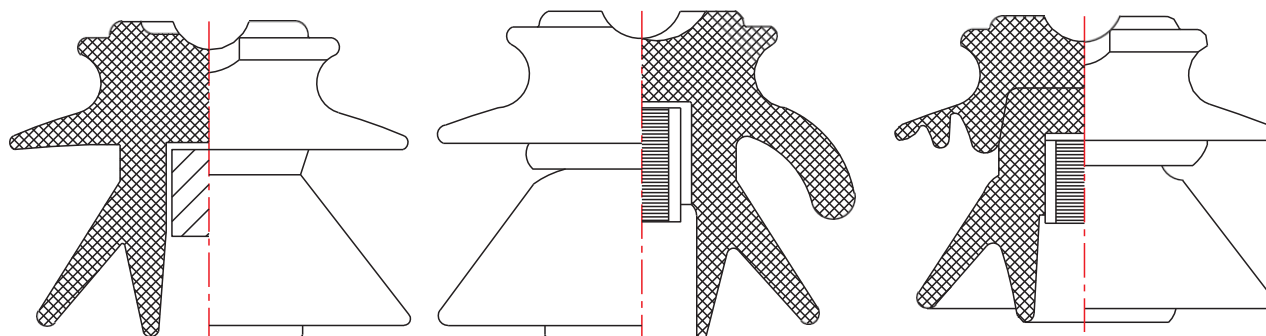
Technical Particulars - ANSI Type

TYPE		55-2	55-3	55-4	55-5
STYLE NUMBER		1.349	1.343	1.312	1.347
MAXIMUM DIAMETER	in(mm)	3.75(95)	4.75(121)	5.5(140)	7(178)
MAXIMUM HEIGHT	in(mm)	3.25(83)	3.75(95)	4.375(111)	4.875(124)
TOTAL LEAKAGE DISTANCE	in(mm)	5(127)	7(178)	9(228)	12(305)
CANTILEVER STRENGTH	lbs(kN)	2500(11)	2500(11)	3000(13)	3000(13)
DRY P.F. FLASHOVER	kV	50	65	70	85
WET P.F. FLASHOVER	kV	25	35	40	45
50% IMPULSE FLASHOVER + VE	kVp	75	100	110	140
50% IMPULSE FLASHOVER - VE	kVp	95	130	140	170
DRY P.F. WITHSTAND	kV	40	50	60	70
WET P.F. WITHSTAND	kV	20	25	30	35
IMPULSE WITHSTAND + VE	kVp	70	80	90	100
IMPULSE WITHSTAND - VE	kVp	70	80	90	100
PUNCTURE VOLTAGE	kV	70	90	95	115
RIV TEST VOLTAGE	kV	5	10	10	15
RIV-PLAIN	μV	2500	5500	5500	8000
@RIV-RADIO FREED	μV	50	50	50	100
CORONA EXTINCTION VOLTAGE	kV	5	8	8	10
NET WEIGHT (APPROXIMATE)	lbs(kg)	2.65(1.2)	3.3(1.5)	3.5(1.6)	6.2(2.8)

@-Radio free RIV values are guaranteed only for insulators coated with semi-conducting glaze. Thimble / threading to sui thread gauge as per figure 8 of ANSI C29.5.



HIGH VOLTAGE PIN TYPE INSULATORS PORCELAIN



CATALOG NUMBER	ANSI CLASS	STANDARD PACKAGE	APPROX. WEIGHT EACH
U56 – 1 G	56 – 1	8	7.7 LBS.
U56 – 2 G	56 – 2	6	10 LBS.
U56 – 3 G	56 – 3	3	15.5 LBS
U56 – 4 G	56 – 4	2	25 LBS.

Technical Particulars - ANSI Type

TYPE		56-1	56-2	56-3	56-4
STYLE NUMBER		1.302	1.303	1.304	1.353
MAXIMUM DIAMETER	in(mm)	7.5(191)	9(229)	10.5(267)	12(35)
MAXIMUM HEIGHT	in(mm)	5.75(146)	6.5(165)	7.5(191)	9.5(241)
TOTAL LEAKAGE DISTANCE	in(mm)	13(330)	17(432)	21(533)	27(686)
CANTILEVER STRENGTH	lbs(kN)	2500(11)	3000(13)	3000(13)	3000(13)
DRY P.F. FLASHOVER	kV	95	110	125	140
WET P.F. FLASHOVER	kV	60	70	80	95
50% IMPULSE FLASHOVER + VE	kVp	150	175	200	225
50% IMPULSE FLASHOVER - VE	kVp	190	225	265	310
DRY P.F. WITHSTAND	kV	85	95	105	115
WET P.F. WITHSTAND	kV	50	60	70	80
IMPULSE WITHSTAND + VE	kVp	120	130	140	150
IMPULSE WITHSTAND - VE	kVp	120	130	140	150
PUNCTURE VOLTAGE	kV	130	145	165	185
RIV TEST VOLTAGE	kV	15	22	30	30
RIV-PLAIN	μV	8000	12000	16000	16000
@RIV-RADIO FREED	μV	100	100	200	200
CORONA EXTINCTION VOLTAGE	kV	15	15	22	22
NET WEIGHT (APPROXIMATE)	lbs(kg)	7.7(3.5)	10(4.5)	15.5(7.0)	25(11.0)

@-Radio free RIV values are guaranteed only for insulators coated with semi-conducting glaze. Thimble / threading to suit thread gauge as per figure 6 of ANSI C29.6.



CLAMP TOP POST INSULATORS PORCELAIN

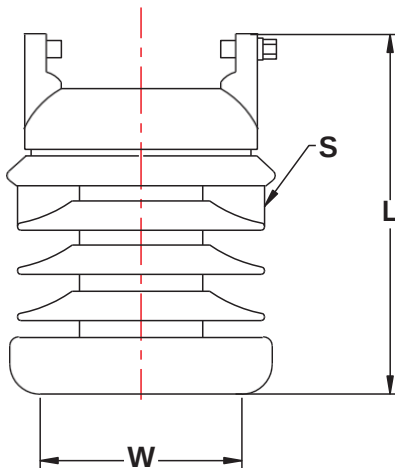


FIG.1

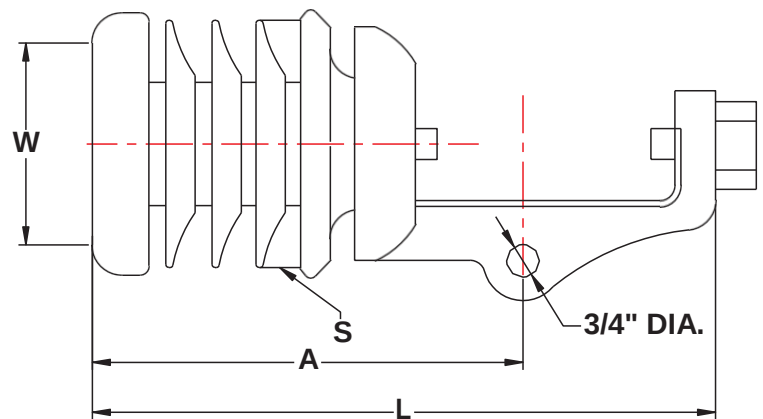


FIG.2

CATALOG NUMBER	FIG. NO.	ANSI CLASS	DIM. A	DIM. L	DIM. S	DIM. W	LEAKAGE DISTANCE	USUAL LINE VOLTAGE	MAX. RIV	STD. PACK
U57 – 11G	1	57-11	—	10 1/8"	6"	4 1/4"	14	25 kV	100	6
U57 – 12G	1	57-12	—	13 1/8"	6 1/4"	5 1/4"	22	35 kV	100	3
U57 – 13G	1	57-13	—	15 3/4"	6 1/2"	5 1/4"	29	45 kV	200	3
U57 – 14G	1	57-14	—	19"	7"	5 1/2"	40	55 kV	200	3
U57 – 15G	1	57-15	—	21 5/8"	7 1/2"	5 1/2"	45	66 kV	200	3
UHCT - 25G	2	—	10 7/8"	13 1/2"	6"	4 1/4"	14	25 kV	100	3
UHCT – 35G	2	—	13 7/8"	16 1/2"	6 1/4"	5 1/4"	22	35 kV	100	3
UHCT – 45G	2	—	16 1/2"	19 1/8"	6 1/2"	5 1/4"	29	45 kV	200	3
UHCT – 55G	2	—	19 3/4"	22 3/8"	7"	5 1/2"	40	55 kV	200	2
UHCT – 66G	2	—	22 7/8"	25 1/2"	7 1/2"	6"	45	66 kV	200	2

THE ABOVE CLAMP TOP INSULATORS ARE OFFERED IN A "SKY GRAY" GLAZE. FOR BROWN COLOR, CHANGE THE SUFFIX "G" TO A "B". EACH OF THE ABOVE HAS A CANTILEVER STRENGTH OF 2800 POUNDS. MOUNTING BASES FOR FIGURE NUMBER 2 ARE AVAILABLE UPON REQUEST.



SPOOL INSULATORS PORCELAIN

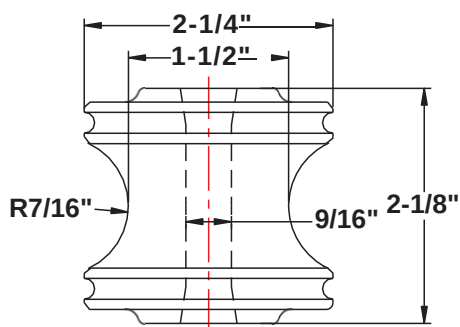


FIG. 1

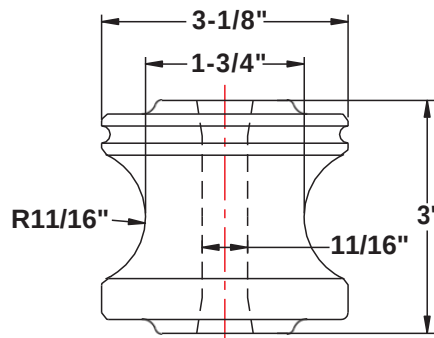


FIG. 2

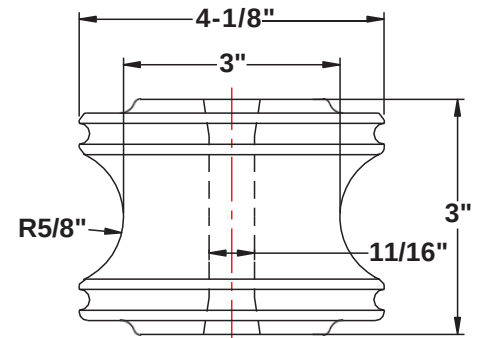


FIG. 3

CATALOG NUMBER	ANSI CLASS	FIG. NO.	ULTIMATE STRENGTH	LOW FREQUENCY FLASHOVER kV DRY	LOW FREQUENCY FLASHOVER kV WET		APPROX. WEIGHT PER 100	STD. PACK
					VERT.	HORZ.		
U53 – 1G	53 – 1	1	2000 LBS.	20	8	10	50 LBS.	100
U53 – 2G	53 – 2	2	3000 LBS.	25	12	15	118 LBS.	50
U53 – 3G	53 – 3	—	4000 LBS.	25	12	15	134 LBS.	50
U53 – 4G	53 – 4	3	4500 LBS.	25	12	15	250 LBS.	25
U53 – 5G	53 – 5	—	6000 LBS.	35	18	25	258 LBS.	20

THE ABOVE PORCELAIN SPOOL INSULATORS ARE OFFERED IN THE STANDARD “SKY GRAY” GLAZE. (ANSI-70) FOR WHITE OR BROWN GLAZE ADD THE SUFFIX “W” OR “B” TO THE CATALOG NUMBER.



STATION POST INSULATORS PORCELAIN

FIG.1

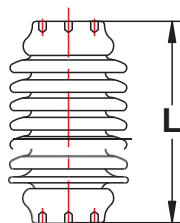
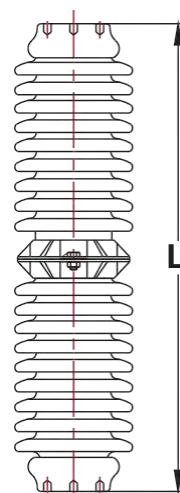


FIG.2



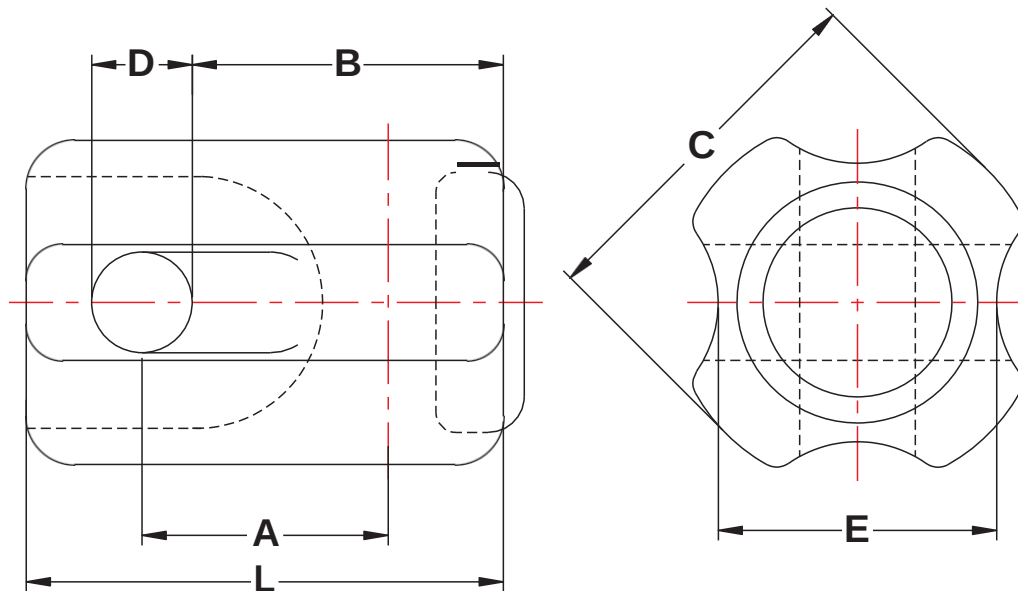
CATALOG NUMBER	FIG. NO.	TECHNICAL REFERENCE NUMBER	CANTILEVER STRENGTH UP & UNDER	TENSION STRENGTH	TORSION STRENGTH INCH-POUNDS	COMPRESSION STRENGTH	LEAKAGE DISTANCE
UTR – 202	1	TR202	2000 LBS.	7000 LBS.	6000	10000 LBS.	10.5"
UTR – 205	1	TR205	2000 LBS.	8500 LBS.	7000	10000 LBS.	15.5"
UTR – 208	1	TR208	2000 LBS.	10000 LBS.	8000	10000 LBS.	24"
UTR – 210	1	TR210	2000 LBS.	12000 LBS.	10000	15000 LBS.	37"
UTR – 214	1	TR214	2000 LBS.	14000 LBS.	12000	15000 LBS.	43"
UTR – 216	1	TR216	1500 LBS.	16000 LBS.	15000	25000 LBS.	72"
UTR – 286	2	TR286	1700 LBS.	20000 LBS.	40000	60000 LBS.	99"
UTR – 288	2	TR288	1450 LBS.	20000 LBS.	40000	60000 LBS.	116"
UTR – 291	2	TR291	1200 LBS.	20000 LBS.	40000	60000 LBS.	132"

CATALOG NUMBER	VOLTAGE CLASS	LOW FREQ. FLASH DRY	FLASH WET	IMPULSE FLASH POS.	NEG.	IMPULSE WITHSTAND	MAXIMUM RIV MICROVOLTS	DIM. L	WT. EA.
UTR – 202	7.5 kV	60 kV	40 kV	105 kV	120 kV	95 kV	50	7 1/2"	13 #
UTR – 205	15 kV	85 kV	55 kV	125 kV	200 kV	110 kV	50	10"	17 #
UTR – 208	23 kV	110 kV	75 kV	170 kV	250 kV	150 kV	100	14"	28 #
UTR – 210	34.5 kV	145 kV	100 kV	225 kV	290 kV	200 kV	100	18"	40 #
UTR – 214	46 kV	170 kV	125 kV	280 kV	340 kV	250 kV	200	22"	57 #
UTR – 216	69 kV	235 kV	180 kV	390 kV	475 kV	350 kV	200	30"	92 #
UTR – 286	115 kV	385 kV	285 kV	610 kV	780 kV	550 kV	200	45"	183 #
UTR – 288	138 kV	435 kV	335 kV	710 kV	900 kV	650 kV	200	54"	210 #
UTR – 291	161 kV	485 kV	389 kV	810 kV	1020 kV	750 kV	500	62"	240 #

THE ABOVE INSULATORS ARE OFFERED IN A SKY GRAY GLAZE.



GUY STRAIN INSULATORS PORCELAIN



DIMENSIONS

CATALOG NUMBER	ANSI CLASS	DIM. L	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E	MAXIMUM CABLE SIZE	ULTIMATE STRENGTH	WT. PER 100
U54 – 1	54 – 1	3 1/2"	1 3/4"	2 1/2"	2 1/2"	5/8"	1 3/4"	3/8"	10000 LBS.	100 LBS.
U54 – 2	54 – 2	4 1/4"	2 1/4"	3"	2 7/8"	7/8"	2 1/8"	1/2"	12000 LBS.	155 LBS.
U54 – 3	54 – 3	5 1/2"	3 1/8"	4 1/16"	3 3/8"	1"	2 3/8"	5/8"	20000 LBS.	270 LBS.
U54 – 4	54 – 4	6 3/4"	2 5/8"	4 1/2"	3 1/2"	1"	2 3/8"	5/8"	20000 LBS.	428 LBS.

ELECTRICAL VALUES

CATALOG NUMBER	FLASHOVER		LEAKAGE DISTANCE
	DRY	WET	
U54 – 1	25 kV	12 kV	1.625"
U54 – 2	30 kV	15 kV	1.825"
U54 – 3	35 kV	18 kV	2.25"
U54 – 5	40 kV	23 kV	3.0"

THE ABOVE STRAIN INSULATORS ARE OFFERED IN A "SKY GRAY" GLAZE.
FOR BROWN GLAZE, CHANGE THE SUFFIX "G" TO A "B".
EACH OF THE ABOVE CONFORM TO ASNI STANDARD C29.4 .



SUSPENSION INSULATORS PORCELAIN

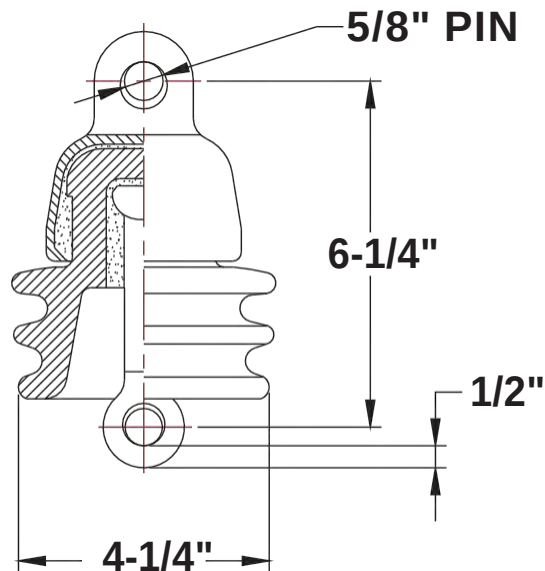


FIG. 1

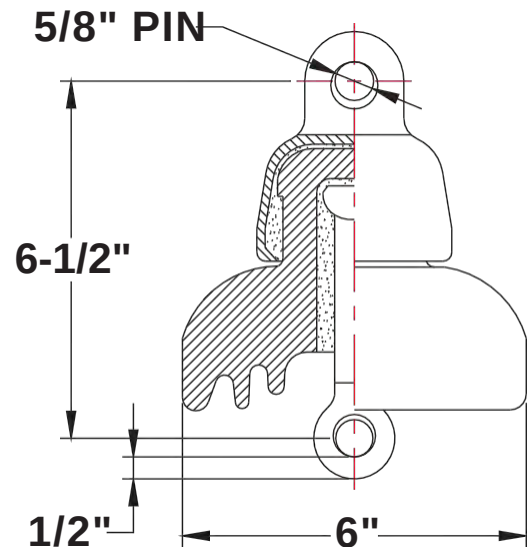


FIG. 2

CATALOG NUMBER	ANSI CLASS	COMBINED M & E STRENGTH	MECH. IMPACT STRENGTH	TENSION PROOF	LOW FREQUENCY FLASHOVER DRY	LOW FREQUENCY FLASHOVER WET	IMPULSE FLASHOVER POS.	IMPULSE FLASHOVER NEG.	LOW FREQ. PUNCTURE
U52 – 9G	52 – 9	10,000 LBS.	55	5,000 LBS.	60 kV	30 kV	100	90	80 kV
U52 – 1G	52 – 1	10,000 LBS.	45	5,000 LBS.	60 kV	30 Kv	100	100	80 kV
U52 – 2G	52 – 2	15,000 LBS.	50	7,500 LBS.	65 kV	35 kV	115	115	90 kV

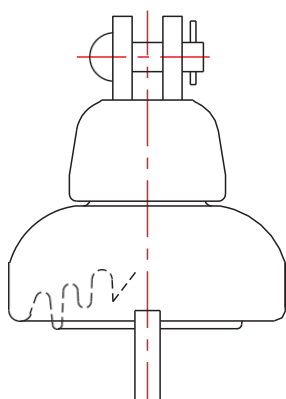
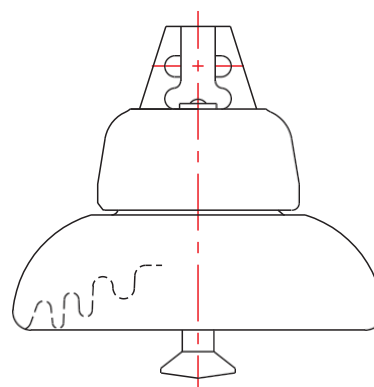
DIMENSIONS AND WEIGHTS

CATALOG NUMBER	FIG. NO.	LEAKAGE DISTANCE	DRY ARCING DISTANCE	INSULATOR SPACING	NOMINAL DIAMETER	WEIGHT PER 100
U52 – 9G PICTURED	1	7"	4"	6 1/4"	4 1/4"	555 LBS.
U52 – 1G PICTURED	2	7"	4 1/2"	5 1/2"	6"	570 LBS.
U52 – 2G	2	8 1/4"	6"	5 3/4"	8"	880 LBS.

THE ABOVE SUSPENSION INSULATORS ARE OFFERED IN A "SKY GRAY" GLAZE.
FOR BROWN GLAZE, CHANGE THE SUFFIX "G" TO A "B".
EACH OF THESE INSULATORS HAVE A MAXIMUM RIV OF 50 MICROVOLTS.



SUSPENSION INSULATORS PORCELAIN

**CLEVIS & TONGUE****BALL & SOCKET**

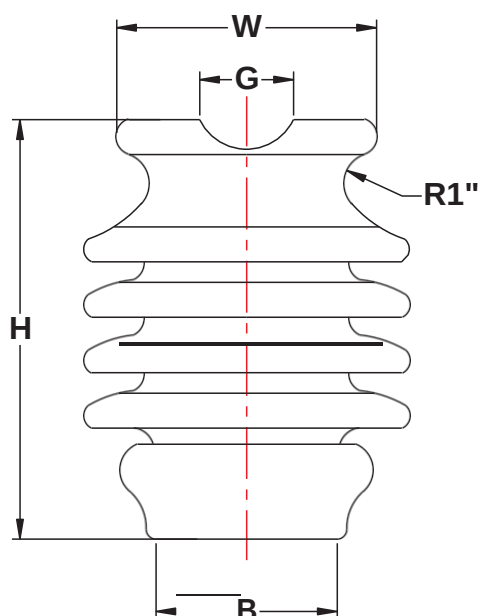
CATALOG NUMBER	U52 – 2G	U52 – 3G	U52 – 4G	U52 – 5G	U52 – 8G
ANSI TYPE	52 – 2	52 – 3	52 – 4	52 – 5	52 – 8
STYLE NUMBER	1.136	1.100	1.031	1.059	1.221
NOMINAL DIAMETER	8"	10"	10"	10"	11"
NOMINAL SPACING	5.75"	5.75"	5.75"	5.75"	5.75"
TOTAL LEAKAGE	8.25"	12.6"	12.6"	12.6"	14.5"
COUPLING TYPE & SIZE	TONGUE & CLEVIS	BALL & SOCKET TYPE B	TONGUE & CLEVIS	BALL & SOCKET TYPE J	BALL & SOCKET TYPE K
LOCKING DEVICE	—	R	—	R	R
ELECTRO MECHANICAL RATING	15000 LBS.	15000 LBS.	15000 LBS.	25000 LBS.	36000 LBS.
IMPACT STRENGTH	50	55	55	60	90
TENSION PROOF	7500 LBS.	7500 LBS.	7500 LBS.	12500 LBS.	18000 LBS.
DRY P.F. FLASHOVER	65 kV	80 kV	80 kV	80 kV	80 kV
WET P.F. FLASHOVER	35 kV	50 kV	50 kV	50 kV	50 kV
IMPULSE WITHSTAND +	100 kVp	110 kVp	110 kVp	110 kVp	110 kVp
IMPULSE WITHSTAND -	100 kVp	110 kVp	110 kVp	110 kVp	110 kVp
PUNCTURE VOLTAGE	90 kV	120 kV	110 kV	130 kV	140 kV
RIV TEST VOLTAGE	50 uV	50 uV	50 uV	50 uV	50 uV
CORONA EXTENSION	09 kV	09 kV	09 kV	09 kV	09 kV
NET WEIGHT EACH	8.8 LBS.	11.5 LBS.	11.5 LBS.	13.7 LBS.	17.5 LBS.
STANDARD PACKAGE	6	6	6	6	3

THE ABOVE INSULATORS ARE OFFERED IN A "SKY GRAY" GLAZE.
FOR BROWN GLAZE, CHANGE THE SUFFIX "G" TO "B".



TIE TOP POST INSULATORS PORCELAIN STUD BASE

CATALOG NUMBER	LINE VOLTAGE	MAX. RIV
U57 – 1G	25 kV	100
U57 – 2G	35 kV	100
U57 – 3G	45 kV	200
U57 – 4G	55 kV	200
U57 – 5G	66 kV	200



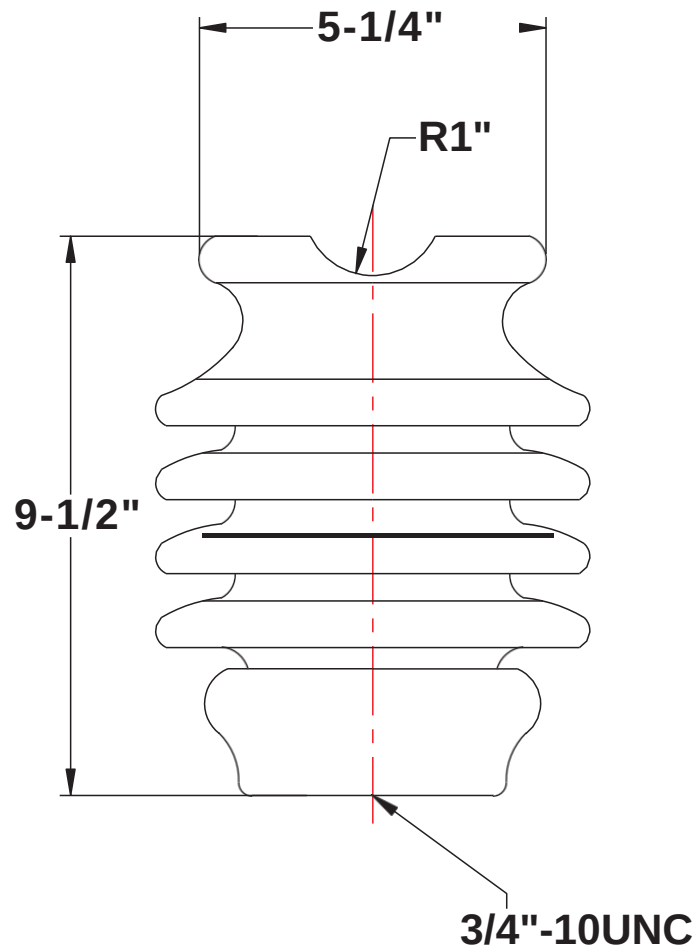
IMPULSE FLASHOVER POS.	NEG.	LEAKAGE DIST. INCHES	DRY ARCING INCHES
130	155	14	6.5
180	205	22	9.5
210	260	29	12.25
255	340	40	14.5
290	380	45	17.25

CATALOG NUMBER	ANSI CLASS	DIM. H	DIM. B	DIM. W	DIM. G	NUMBER OF SKIRTS	WEIGHT PER 100	STANDARD PACKAGE
U57 – 1G	57 – 1	8 13/16"	4 1/4"	4 1/2"	1"	4	1452 LBS.	6
U57 – 2G	57 – 2	12"	4 1/4"	4 1/2"	1"	6	2255 LBS.	3
U57 – 3G	57 – 3	15 1/4"	5 1/4"	4 1/2"	1"	8	2985 LBS.	3
U57 – 4G	57 – 4	17"	5 1/2"	6 5/8"	1 3/4"	11	4000 LBS.	3
U57 – 5G	57 – 5	20"	5 1/2"	6 5/8"	1 3/4"	12	5250 LBS.	2

THE ABOVE LINE POST INSULATORS ARE OFFERED IN A "SKY GRAY" GLAZE. (ANSI -70)
 FOR CHOCOLATE GLAZE CHANGE THE SUFFIX IN THE CATALOG NUMBER FROM "G" TO "B".
 ITEMS #1 THOUGH #3 ARE "F" NECK INSULATORS AND ITEMS #4 AND #5 ARE "N" NECK INSULATORS.
 THE CANTILEVER STRENGTH ON EACH OF THESE INSULATORS IS 2800 POUNDS.
 LINE POST STUDS ARE FURNISHED SEPARATELY. PLEASE REFER TO OUR HARDWARE SECTION FOR SELECTION.
 CONTACT GPP FOR DETAIL DRAWINGS ON ANY OF THE ABOVE INSULATORS.



LINE POST INSULATORS “F” NECK TYPE PORCELAIN STUD BASE



CATALOG NUMBER	USUAL LINE VOLTAGE	RADIO INFLUENCE TEST VOLTAGE Rms to Ground	MAXIMUM RIV Microvolts to 1000 kc	CANTILEVER STRENGTH
U4327 G	27 KV	20	50	1500 LBS.

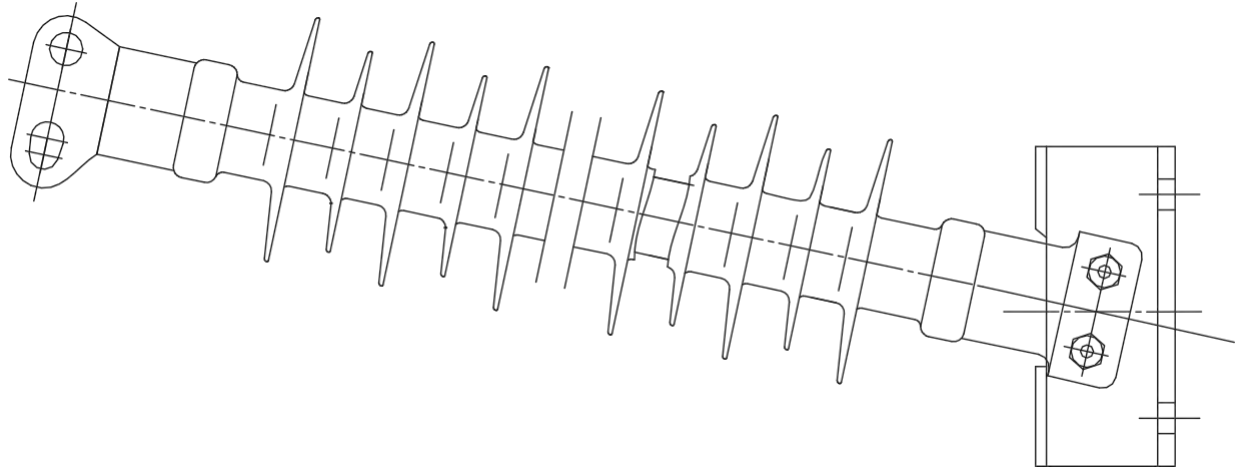
CATALOG NUMBER	LEAKAGE DISTANCE	DRY ARCHING DISTANCE	LOW FREQUENCY FLASHOVER— kV	IMPULSE FLASHOVER— kV	WEIGHT PER 100
U4327 G	15"	7 3/4"	95 DRY 65 WET	135 POSITIVE 190 NEGATIVE	1040 LBS.

THE ABOVE LINE POST INSULATOR IS OFFERED IN A “SKY GRAY” GLAZE . (ANSI - 70)
FOR CHOCOLATE GLAZE CHANGE THE SUFFIX IN THE CATALOG NUMBER FROM “G” TO “B” .
LINE POST STUDS ARE FURNISHED SEPARATELY. PLEASE REFER TO OUR HARDWARE SECTION FOR SELECTION..



POLYMER INSULATORS

161 KV LINE POST

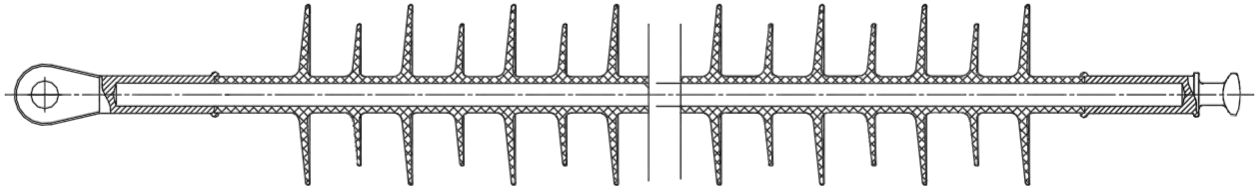


LINE VOLTAGE	CATALOG NUMBER	SECTION LENGTH	DRY ARCHING DISTANCE	LEAKAGE DISTANCE	LOW FREQUENCY FLASHOVER — kV 60Hz CIFO			
					DRY	WET	POS	NEG
161	PHLPI-161 -2-70-AB	66.7 ± 1.6	57.5	179.1	540	500	940	980



POLYMER INSULATORS

69 KV SUSPENSION CLEVIS BALL

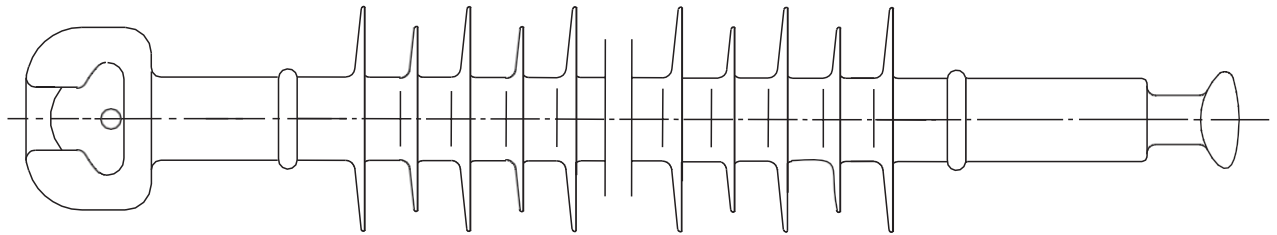


LINE VOLTAGE	CATALOG NUMBER	SECTION LENGTH	DRY ARCHING DISTANCE	LEAKAGE DISTANCE	LOW FREQUENCY FLASHOVER — kV 60Hz CIFO			
					DRY	WET	POS	NEG
69	PDI69 -25K-EB	34.7 ± 0.2	31.5	86.6	245	240	410	390



POLYMER INSULATORS

35 KV SUSPENSION SOCKET BALL

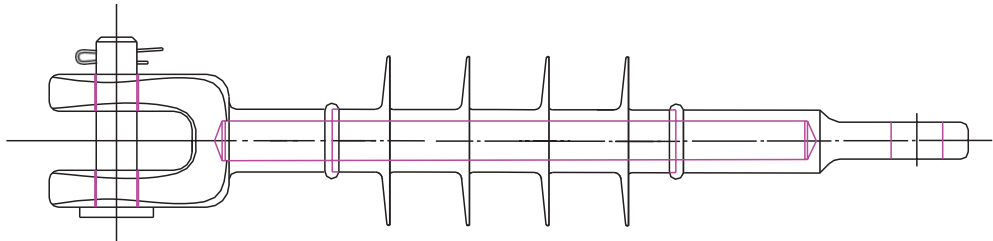


LINE VOLTAGE	CATALOG NUMBER	SECTION LENGTH	DRY ARCHING DISTANCE	LEAKAGE DISTANCE	LOW FREQUENCY FLASHOVER — kV			
					60Hz CIFO			
KV		IN	IN	IN	DRY	WET	POS	NEG
35	PDI35 -15K-BS	17. 2± 0. 2	13. 0	39. 0	190	140	225	225



POLYMER INSULATORS

15 KV, 25 KV, 35 KV, CLEVIS EYE



LINE VOLTAGE	CATALOG NUMBER	SECTION LENGTH	DRY ARCHING DISTANCE	LEAKAGE DISTANCE	LOW FREQUENCY FLASHOVER ?kV 60Hz CIFO			
					DRY	WET	POS	NEG
15	PDI 15 -15K-CE	12. 6± 0. 2	8	17. 7	90	65	140	165
25	PDI 25 -15K-CE	16. 9± 0. 2	12. 5	26.0	130	100	190	210
35	PDI 35 -15K-CE	19. 4± 0. 2	15. 3	37.4	145	130	250	280



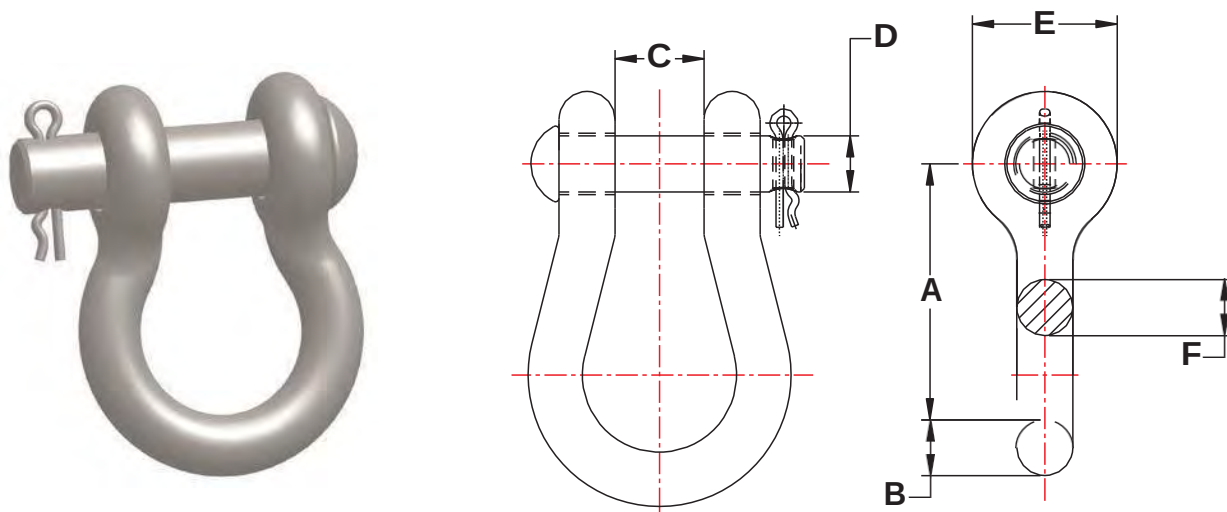
INDEX

SECTION 6 - TOWER HARDWARE

ANCHOR SHACKLES -----	6-1
BALL CLEVIS & BALL- "Y" CLEVIS -----	6-2
BALL HOOKS -----	6-3
CLEVIS—CLEVIS -----	6-4
CLEVIS EYE -----	6-5
Y -CLEVIS CLEVIS & SOCKET Y - CLEVIS -----	6-6
FIGURE 8 LINKS -----	6-7
HOT LINE BALL LINKS -----	6-8
OVAL EYE BALL -----	6-9
SOCKET CLEVIS -----	6-10
SOCKET CLEVIS LINKS & OVAL EYE BALL LINKS -----	6-11
SOCKET EYE -----	6-12
Y—CLEVIS EYE -----	6-13
THIMBLE CLEVIS -----	6-14
TOWER EXTENSION STRAPS -----	6-15
TURNBUCKLES HOT DIPPED GALVANIZED -----	6-16
YOKE PLATES DELTA STYLE -----	6-17
YOKE PLATES RECTANGULAR STYLE -----	6-18



ANCHOR SHACKLES



CATALOG NUMBER	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "F"	ULTIMATE STRENGTH	WEIGHT PER 100
UAS25	2 3/16"	5/8"	7/8"	5/8"	1 3/8"	11/16"	30000 LBS.	75 LBS.
UAS25- BNC	2 3/16"	5/8"	7/8"	5/8"	1 3/8"	11/16"	30000 LBS.	85 LBS.
UAS25- L	2 25/32"	5/8"	7/8"	5/8"	1 3/8"	21/32"	30000 LBS.	98 LBS.
UAS25- L - BNC	2 25/32"	5/8"	7/8"	5/8"	1 3/8"	21/32"	30000 LBS.	110 LBS.
UAS25- W	3"	5/8"	1 3/4"	5/8"	1 11/16"	5/8"	30000 LBS.	157 LBS.
UAS - 25 - W - BNC	3"	5/8"	1 3/4"	5/8"	1 11/16"	5/8"	30000 LBS.	163 LBS.
UAS35	3 1/7"	37/47"	1 4/57"	3/4"	1 3/4"	37/47"	40000 LBS.	230 LBS.
UAS35- BNC	3 1/7"	37/47"	1 4/57"	3/4"	1 3/4"	37/47"	40000 LBS.	241 LBS.
UAS50	3 1/2"	7/8"	7/8"	3/4"	1 7/8"	3/4"	50000 LBS.	223 LBS.
UAS50- BNC	3 1/2"	7/8"	7/8"	3/4"	1 7/8"	3/4"	60000 LBS.	242 LBS.
UAS50- W	3 1/2"	7/8"	1 1/4"	7/8"	1 15/16"	1"	50000 LBS.	222 LBS.
UAS50- W - BNC	3 1/2"	7/8"	1 1/4"	7/8"	1 15/16"	1"	60000 LBS.	272 LBS.
UAS60- BNC	3 3/4"	7/8"	1 7/16"	1"	2 1/8"	1 1/8"	80000 LBS.	430 LBS.

THE ABOVE SHACKLES CAN BE FURNISHED WITH A PIN AND COTTER KEY OR SUPPLIED WITH A BOLT, NUT, AND COTTER KEY (BNC) . OTHER SIZES ARE AVAILABLE UPON REQUEST.

THE MATERIAL IS AS FOLLOWS :

BODY : FORGED STEEL

CLEVIS PIN OR BOLT : HIGH GRADE STEEL

COTTER KEY : STAINLESS STEEL

FERROUS PARTS ARE HOT DIPPED GALVANIZED TO ASTM A153



BALL CLEVIS & BALL-"Y" CLEVIS

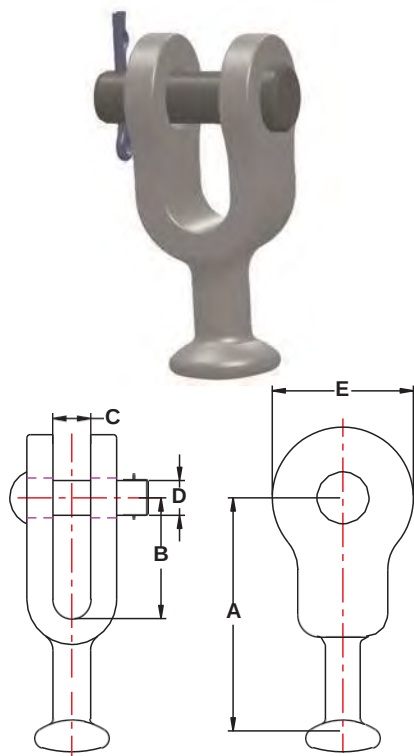


FIG. 1

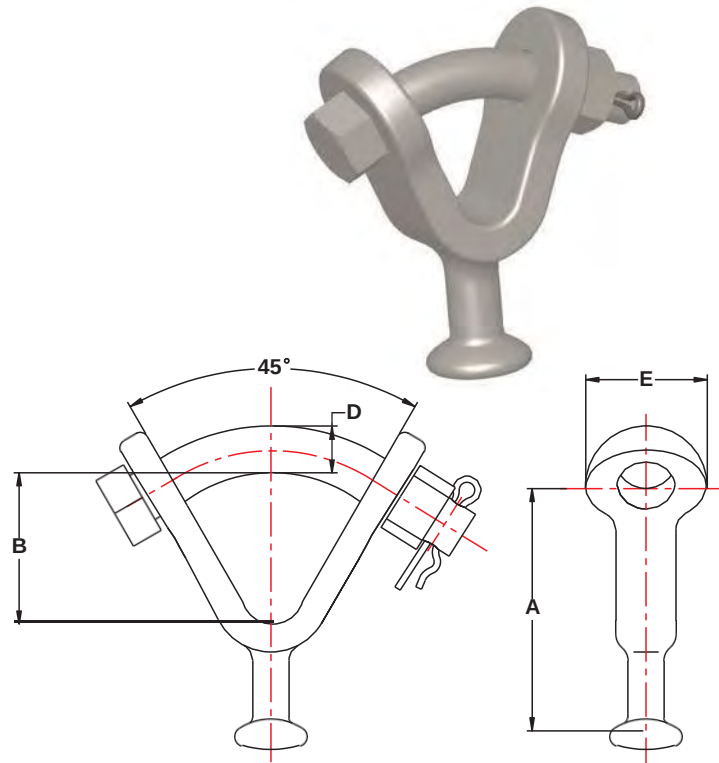


FIG. 2

CATALOG NUMBER	FIG. NO.	BALL ANSI CLASS	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"	ULTIMATE STRENGTH	WEIGHT PER 100
UBC – 30	1	52 – 3 52 – 5	2 7/8"	1 4/7"	17/18"	5/8"	1 3/4"	36000 LBS.	131 LBS.
UBC – 30 – L	1	52 – 3 52 – 5	3 15/16"	2 1/2"	13/16"	5/8"	1 1/2"	30000 LBS.	120 LBS.
UBC – 50	1	52 – 8 52 – 11	4 3/16"	1 15/16"	15/16"	7/8"	2 3/16"	50000 LBS.	226 LBS.
UBYC – 30	2	52 – 3 52 – 5	3 3/32"	1 1/2"	—	3/4"	1 3/4"	30000 LBS.	188 LBS.
UBYC – 50	2	52 – 8 52 – 11	3 13/16"	1 9/16"	—	7/8"	2 3/16"	50000 LBS.	270 LBS.
UBYC – 50 – L	2	52 – 8 52 – 11	4 1/4"	2"	—	7/8"	2 3/16"	50000 LBS.	282 LBS.

THE ABOVE BALL CLEVISES AND BALL - "Y" CLEVISES ARE USED TO CONNECT BALL AND SOCKET INSULATORS.

THE MATERIAL IS AS FOLLOWS :

BODY : FORGED STEEL

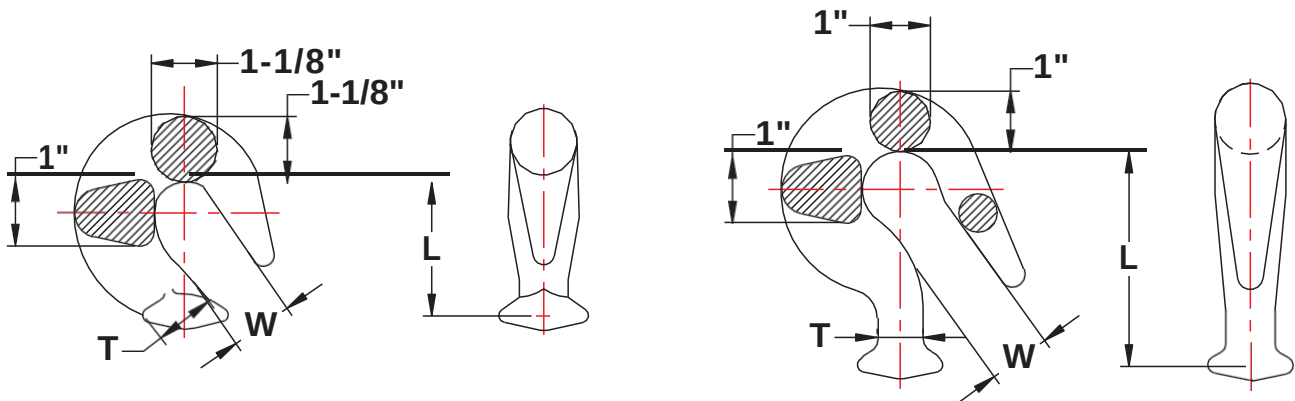
CLEVIS PIN OR BOLT : HIGH GRADE STEEL

COTTER KEY : STAINLESS STEEL

FERROUS PARTS ARE HOT DIPPED GALVANIZED TO ASTM A153



BALL HOOKS



CATALOG NUMBER	ULTIMATE STRENGTH	DIM. L	DIM. W	DIM. T	APPROX. WEIGHT PER 100
UBH – 30	30000 LBS.	2"	13/16"	23/32"	105 LBS.
UBH – 30L	30000 LBS.	3 1/8"	7/8"	23/32"	132 LBS.

THE ABOVE BALL HOOKS ARE PRIMARILY USED ON ASNI #53 -2 AND ANSI #53 -5 SUSPENSION INSULATORS. THE MATERIAL IS STEEL HOT DIPPED GALVANIZED TO ASTM A 153.



CLEVIS-CLEVIS

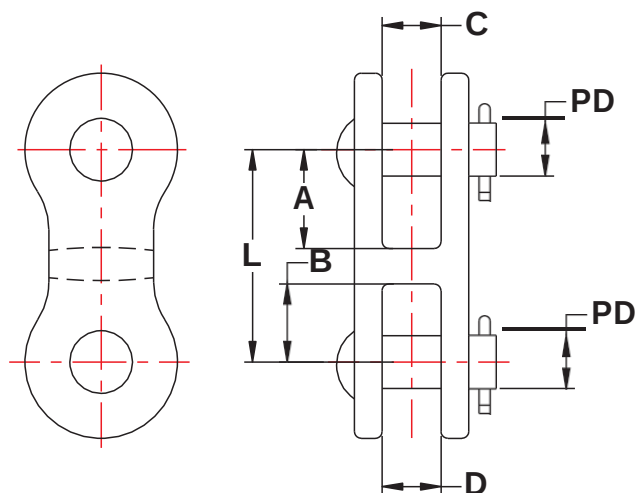


FIG. 1

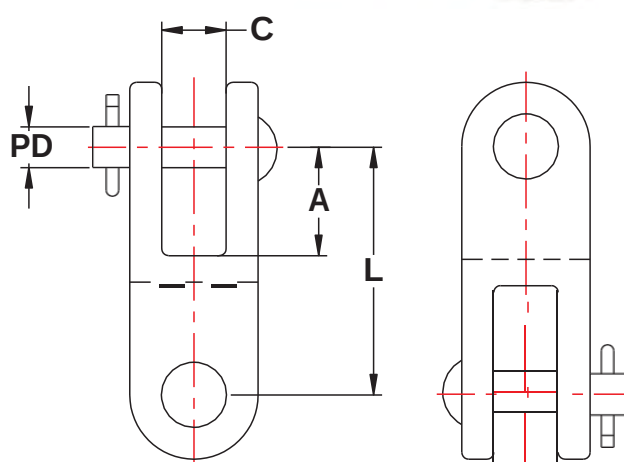


FIG. 2

CATALOG NUMBER	FIG. NO.	ULTIMATE STRENGTH	DIM. L	DIM. A	DIM. B	DIM. C	DIM. D	DIM. PD	APPROXIMATE WT. PER 100
CC - 1	1	18000 LBS.	2 3/4"	1 1/2"	1 1/4"	3/4"	7/8"	5/8"	225 LBS.
CC - 2	1	25000 LBS.	3 1/8"	1 3/8"	1 7/16"	7/8"	7/8"	3/4"	255 LBS.
CC - 3	1	35000 LBS.	3 9/16"	1 5/8"	1 3/8"	1"	1"	7/8"	280 LBS.
CC - 4	1	30000 LBS.	4"	1 3/4"	1 3/4"	13/16"	13/16"	5/8"	298 LBS.
CC - 5	1	50000 LBS.	4 1/2"	2"	2"	1"	1"	3/4"	395 LBS.
CC - 6 - BNC	1	80000 LBS.	5 1/8"	2 1/4"	2 1/4"	1 1/4"	1 5/8"	1" 1 1/8"	600 LBS.
CC - 1 - 90	2	18000 LBS.	2 3/4"	1 1/16"	1 3/8"	3/4"	7/8"	5/8"	225 LBS.
CC - 2 - 90	2	25000 LBS.	3 1/16"	1 3/8"	1 3/8"	3/4"	7/8"	3/4"	245 LBS.
CC - 3 - 90	2	35000 LBS.	3 3/4"	1 11/16"	1 7/16"	3/4"	1"	7/8"	444 LBS.
CC - 4 - 90	2	30000 LBS.	3"	1 3/8"	1 3/8"	7/8"	1 3/8"	5/8"	255 LBS.
CC - 5 - 90	2	50000 LBS.	4 1/2"	2"	2"	1"	1"	3/4"	395 LBS.

THE ABOVE CLEVIS CLEVIS TYPE FITTINGS ARE PRIMARILY USED TO CONNECT CLEVIS TONGUE INSULATORS TO VARIOUS OTHER HARDWARE WITHIN THE INSULATOR STRING.

TO OBTAIN A BOLT, NUT, AND COTTER KEY, ADD THE SUFFIX - BNC TO THE CATALOG NUMBER.

MATERIAL IS : BODY - DUCTILE IRON

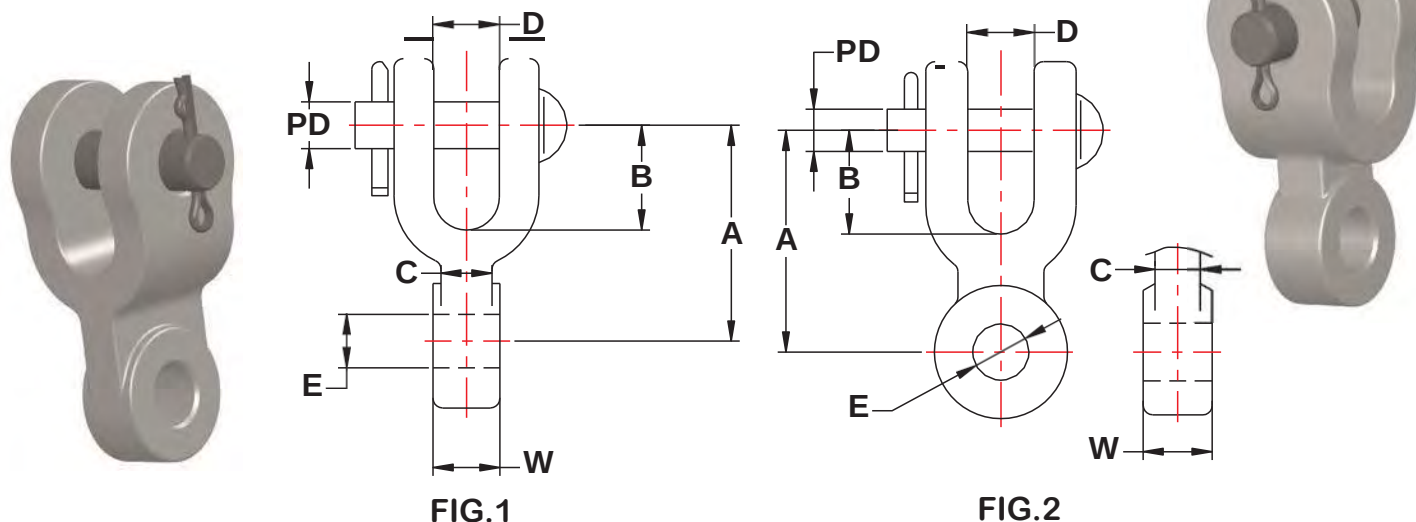
CLEVIS PIN - GALVANIZED STEEL

COTTER KEY - STAINLESS STEEL

BODY AND PIN ARE HOT DIPPED GALVANIZED TO ASTM A 153



CLEVIS EYE



CATALOG NUMBER	FIG. NO.	ULTIMATE STRENGTH	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E	DIM. W	DIM. PD	APPROX. WT. PER 100
CE - 1	1	16000 LBS.	2 1/2"	1 1/8"	1/2"	13/16"	5/8"	1/2"	5/8"	155 LBS.
CE - 2	1	20000 LBS.	2 1/2"	1 1/8"	5/8"	13/16"	5/8"	5/8"	5/8"	160 LBS.
CE - 3	1	30000 LBS.	3 1/8"	1 1/2"	5/8"	13/16"	5/8"	5/8"	5/8"	220 LBS.
CE - 4	1	25000 LBS.	2 5/8"	1 1/16"	3/4"	13/16"	5/8"	7/8"	5/8"	175 LBS.
CE - 5	1	25000 LBS.	2 1/2"	1 5/16"	3/4"	13/16"	5/8"	1"	5/8"	170 LBS.
CE - 6	1	25000 LBS.	2 1/2"	1 5/16"	3/4"	13/16"	5/8"	1 3/16"	5/8"	170 LBS.
CE - 7	1	25000 LBS.	2 1/2"	1 1/4"	3/4"	13/16"	5/8"	1 1/4"	5/8"	170 LBS.
CE - 8	1	30000 LBS.	2 1/2"	1 1/4"	3/4"	13/16"	5/8"	1 3/8"	5/8"	175 LBS.
CE - 9	1	30000 LBS.	2 1/2"	1 1/4"	3/4"	13/16"	5/8"	1 7/16"	5/8"	175 LBS.
CE - 14	1	27000 LBS.	3 1/2"	1 1/4"	1"	13/16"	1 1/16"	1 1/4"	5/8"	230 LBS.
CER- 1	2	20000 LBS.	2 5/8"	1 1/4"	11/16"	7/8"	11/16"	1/2"	5/8"	168 LBS.
CER- 2	2	25000 LBS.	2 5/8"	1 1/4"	11/16"	7/8"	11/16"	3/4"	5/8"	168 LBS.
CER- 3	2	18000 LBS.	2 11/16"	1 1/16"	7/8"	13/16"	11/16"	1/2"	5/8"	170 LBS.
CER- 4	2	30000 LBS.	3 3/8"	1 9/16"	7/8"	7/8"	11/16"	5/8"	5/8"	182 LBS.
CER- 5	2	36000 LBS.	3 1/2"	1 1/2"	1"	1"	11/16"	3/4"	3/4"	218 LBS.
CER- 6	2	36000 LBS.	3 1/2"	1 1/2"	1"	1"	15/16"	3/4"	3/4"	208 LBS.
CER- 7	2	36000 LBS.	5 1/2"	2 1/8"	1 1/4"	7/8"	13/16"	3/4"	3/4"	385 LBS.
CER- 8	2	50000 LBS.	5 1/2"	2 1/8"	1"	7/8"	13/16"	1 1/16"	3/4"	295 LBS.
CER- 9	2	60000 LBS.	5 1/2"	2 1/8"	1"	7/8"	13/16"	1 3/4"	7/8"	365 LBS.

THE ABOVE CLEVIS EYES ARE PRIMARILY USED TO CONNECT STRAIN CLAMPS TO CLEVIS TONGUE INSULATORS OR TO YOKE PLATES. THE "CER" TYPE FITTING OFFERS A 90 DEGREE EYE ROTATION FROM THE "CE" SERIES. OTHER SIZES ARE AVAILABLE UPON REQUEST. MINIMUM QUANTITIES MAY APPLY.

MATERIAL : BODY - DUCTILE IRON , CLEVIS PIN - GALVANIZED STEEL, COTTER KEY - STAINLESS STEEL
BODY AND PIN ARE GALVANIZED TO ASTM A 153



Y-CLEVIS CLEVIS & SOCKET Y-CLEVIS

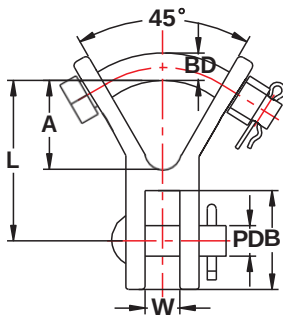


FIG. 1

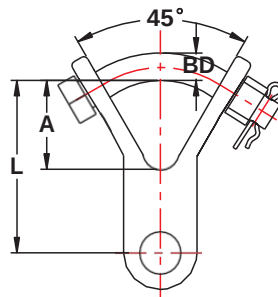


FIG. 2

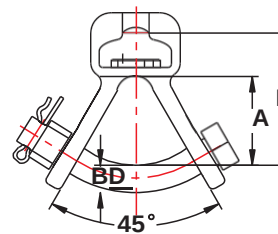


FIG. 3

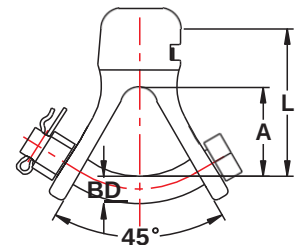


FIG. 4

CATALOG NUMBER	FIG. NO.	ULTIMATE STRENGTH	DIM. L	DIM. A	DIM. B	DIM. W	DIM. BD	DIM. PD	APPROX. WEIGHT PER 100
UYCC – 30	1	30,000 LBS.	3 1/4"	1 3/8"	1 3/8"	7/8"	3/4"	5/8"	248 LBS.
UYCC – 30 – 90	2	30,000 LBS.	3 1/4"	1 1/2"	1 3/8"	7/8"	3/4"	5/8"	248 LBS.
UYCC – 80	1	80,000 LBS.	7 5/16"	2 1/16"	2 1/4"	1 13/16"	1 1/8"	1 1/8"	497 LBS.
USYC – 30	3	30,000 LBS.	2 3/4"	1 9/16"	—	—	3/4"	—	298 LBS.
USYC – 50	3	50,000 LBS.	2 3/4"	1 9/16"	—	—	7/8"	—	595 LBS.
USYC – 30 – 90	4	30,000 LBS.	2 9/32"	1 3/16"	—	—	3/4"	—	250 LBS.

THE ABOVE Y CLEVIS TO CLEVIS ARE PRIMARILY USED TO ATTACH ASSOCIATED HARDWARE TO CLEVIS TONGUE INSULATORS. THE Y CLEVIS TO SOCKET FITTINGS ARE PRIMARILY USED TO ATTACH ASSOCIATED HARDWARE OR YOKE PLATES TO BALL AND SOCKET INSULATORS.

MATERIAL : BODY - DUCTILE IRON

HARDWARE - STEEL

COTTER PIN - STAINLESS STEEL

BOTH BODY AND HARDWARE ARE HOT DIPPED GALVANIZED TO ASTM A153.



FIGURE 8 LINKS

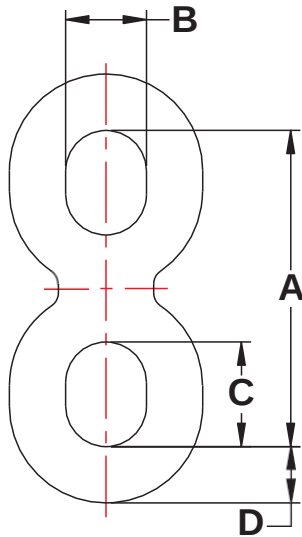


FIG. 1

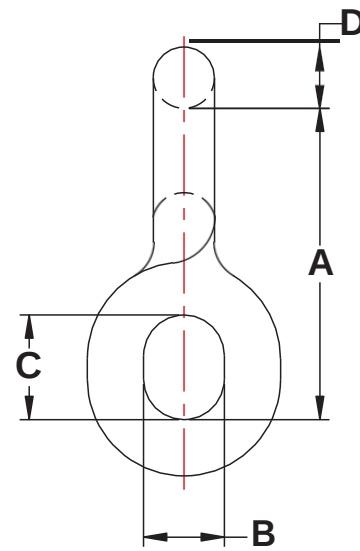


FIG. 2

CATALOG NUMBER	FIG. NO.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	ULTIMATE STRENGTH	WT. PER 100
F8LK30	1	3 3/8"	7/8"	1 1/8"	9/16"	30000 LBS.	75 LBS.
FL8K30 – 90	2	3 3/8"	7/8"	1 1/8"	9/16"	30000 LBS.	75 LBS.

THE ABOVE CHAIN LINKS ARE PRIMARILY USED TO ALLOW PROPER CLEARANCE WHEN CONNECTING ASSOCIATED HARDWARE TO THE TOWER PAD. THEY CAN ALSO BE USED AMONG A STRING OF INSULATORS.

MATERIAL : HOT DIPPED GALVANIZED STEEL TO ASTM A153



HOT LINE BALL LINKS

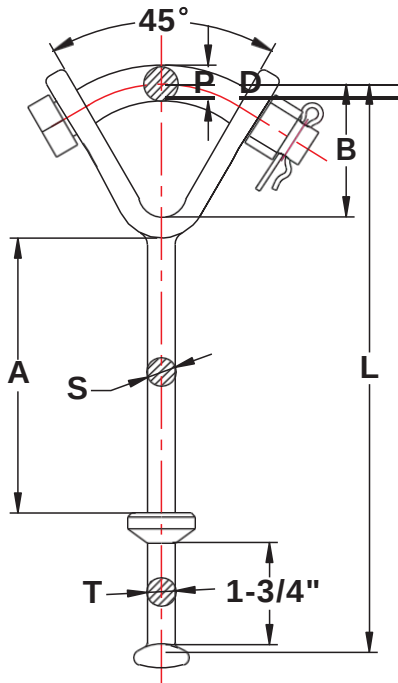


FIG. 1

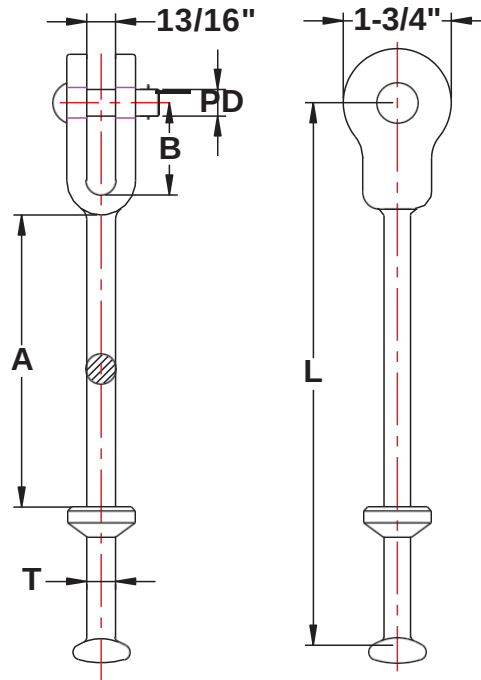


FIG. 2

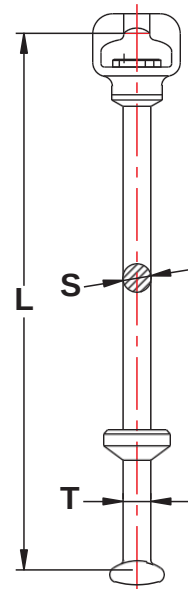


FIG. 3

CATALOG NUMBER	FIG. NO.	ULTIMATE STRENGTH	DIM. L	DIM. A	DIM. B	DIA. S	DIA. T	PD	WT. PER 100
HLYBC – 30 PICTURED	1	30000 LBS.	9 3/4"	5 9/16"	1 1/2"	7/8"	23/32"	3/4"	278 LBS.
HLYBC – 50	1	50000 LBS.	10 3/16"	6 9/16"	1 1/2"	7/8"	57/64"	7/8"	368 LBS.
HLBC – 30 PICTURED	2	30000 LBS.	9 9/16"	5 7/8"	1 3/4"	7/8"	23/32"	5/8"	243 LBS.
HLBC – 50	2	50000 LBS.	10 1/16"	5 3/8"	1 7/8"	7/8"	57/64"	7/8"	348 LBS.
HLSC – 30	3	30000 LBS.	9 3/4"	—	—	7/8"	23/32"	7/8"	305 LBS.

THE ABOVE HOT LINE LINKS ARE PRIMARILY USED TO CONNECT BALL AND SOCKET INSULATORS TO OTHER HARDWARE IN AN INSULATOR STRING. THE SHOULDERS SHOWN WILL ALLOW THE USE OF HOT LINE TOOLS. THE 30000# LINKS ARE FOR USE WITH CLASS 52 - 3 AND 52 - 5 INSULATORS. THE 50000# LINKS ARE FOR USE WITH CLASS 52 - 8 AND 52 - 11 INSULATORS.

MATERIAL : BODY IS HOT DIPPED GALVANIZED STEEL TO ASTM A153
CLEVIS PIN IS STEEL GALVANIZED TO ASTM 153
COTTER PIN IS STAINLESS STEEL



OVAL EYE BALL

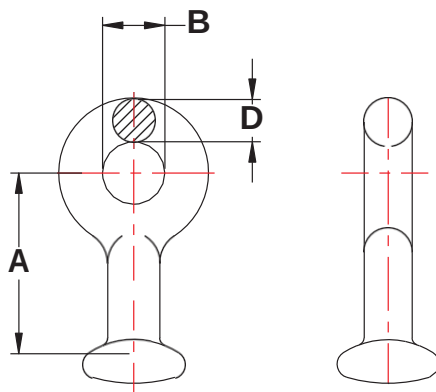
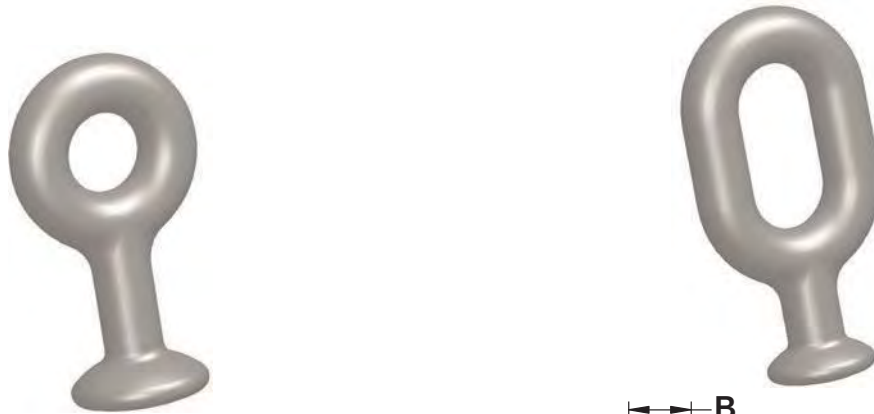


FIG. 1

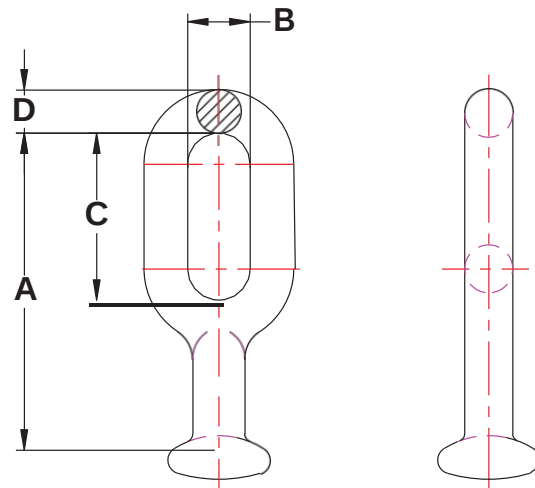


FIG. 2

- Made of forged steel.
- Hot dip galvanized.

CATALOG NUMBER	FIGURE NO.	BALL ANSI CLASS	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	ULTIMATE STRENGTH	WT. PER 100
OEB - 20	1	52- 3 ONLY	2 1/4"	3/4"	—	9/16"	20000 LBS.	50 LBS.
OEB - 30	2	52- 3 52- 5	3 11/16"	1"	2"	11/16"	30000 LBS.	98 LBS.
OEB - 50	2	52 - 8 52 - 11	4 1/2"	1 1/4"	2 1/2"	3/4"	50000 LBS.	153 LBS.

THE ABOVE HOT LINE LINKS ARE PRIMARILY USED TO CONNECT BALL AND SOCKET INSULATORS TO OTHER HARDWARE. THEY ARE MOST COMMONLY USED ALONG WITH AN ANCHOR SHACKLE FOR TOWER CONNECTIONS.

MATERIAL : HOT DIPPED GALVANIZED STEEL TO ASTM A153



SOCKET CLEVIS

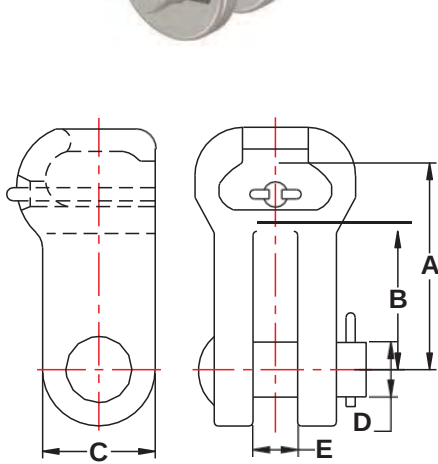


FIG. 1

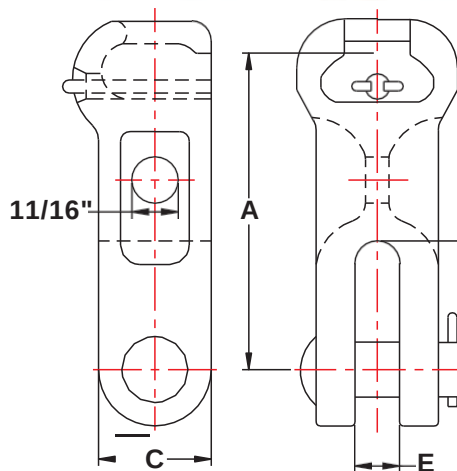


FIG. 2

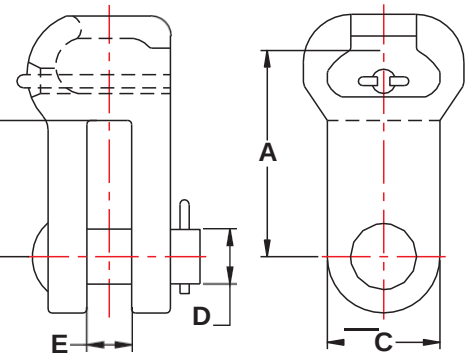


FIG. 3

CATALOG NUMBER	FIG. NO.	BALL ANSI CLASS	DIM. "A"	DIM. "B"	DIM. "C"	DIA. "D" PIN	DIM. "E"	ULTIMATE STRENGTH	WEIGHT PER 100
USC- 30	1	52- 3 52- 5	2 5/8"	1 5/8"	1 3/4"	5/8"	7/8"	30000 LBS.	198 LBS.
USC- 30 - AHM	2	52- 3 52- 5	4 1/2"	1 15/16"	1 3/4"	5/8"	7/8"	30000 LBS.	345 LBS.
USC- 30 - 90	3	52- 3 52- 5	3 7/8"	2 7/8"	1 3/4"	5/8"	1 1/8"	30000 LBS.	296 LBS.
USC- 50	1	52 - 8 52 - 11	3 9/32"	2 1/16"	2 1/4"	7/8"	1 1/8"	50000 LBS.	455 LBS.
USC- 50 - L	1	52 - 8 52 - 11	4 15/32"	2"	2 1/4"	7/8"	15/16"	50000 LBS.	490 LBS.

THE ABOVE SOCKET CLEVISES ARE USED TO CONNECT BALL AND SOCKET INSULATORS.
OTHER SIZES ARE AVAILABLE UPON REQUEST.

THE MATERIAL IS AS FOLLOWS : BODY : FORGED STEEL

CLEVIS PIN OR BOLT : HIGH GRADE STEEL

COTTER KEY : STAINLESS STEEL

FERROUS PARTS ARE HOT DIPPED GALVANIZED TO ASTM A153



SOCKET CLEVIS LINKS & OVAL EYE BALL LINKS

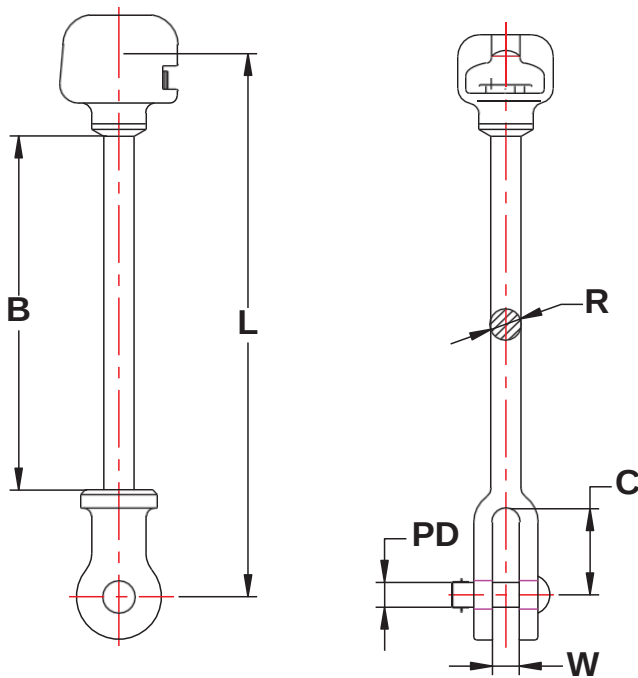


FIG. 1

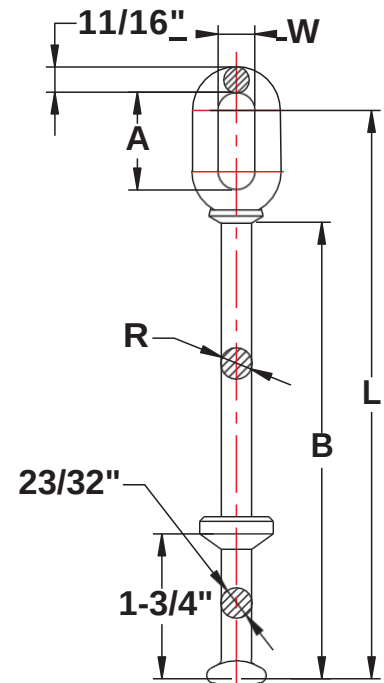


FIG. 2

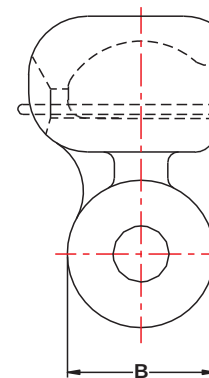
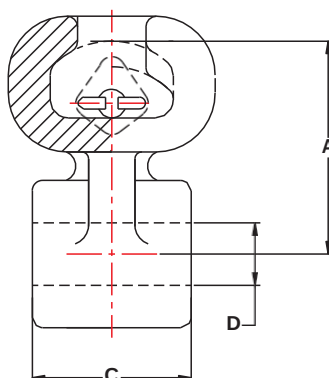
CATALOG NUMBER	FIG. NO.	ULTIMATE STRENGTH	DIM. L	DIM. A	DIM. B	DIM. C	DIM. R	DIM. W	DIM. PD	APPROX. WEIGHT PER 100
HLSC – 8	1	30000 LBS.	8 3/8"	—	4 5/8"	1 1/2"	7/8"	1"	5/8"	302 LBS.
HLSC – 10	1	30000 LBS.	10"	—	6 1/4"	1 1/2"	7/8"	1"	5/8"	347 LBS.
HLSC – 10 – 35	1	35000 LBS.	11"	—	6 3/32"	1 5/8"	1 1/32"	1"	3/4"	445 LBS.
HLSC – 11 – 50 *	1	50000 LBS.	11"	—	6 13/16"	2"	1 3/16"	1 5/16"	7/8"	698 LBS.
HLSC – 11 – 50A*	1	50000 LBS.	11"	—	6 13/16"	2"	1 3/16"	1 5/16"	1"	705 LBS.
HBOE – 11 – 30	2	30000 LBS.	11 3/4"	2"	9 9/16"	—	7/8"	1"	—	230 LBS.
HBOE – 11 – 50 *	2	50000 LBS.	11 3/4"	2"	9 9/16"	—	1 3/16"	1"	—	300 LBS.

THE ABOVE HOT LINKS ARE PRIMARILY USED TO ATTACH BALL AND SOCKET INSULATORS TO OTHER TYPES OF HARDWARE. THESE PRODUCTS ARE USED ON ANSI #52 - 3 AND #52 - 5 INSULATORS. AN "*" MARK DESIGNATES USE ON ANSI #52 - 8 AND #52 - 11 INSULATORS.

THE MATERIAL IS DUCTILE IRON HOT DIPPED GALVANIZED TO ASTM A153. COTTER PIN IS STAINLESS STEEL.



SOCKET EYE



CATALOG NUMBER	BALL ANSI CLASS	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	ULTIMATE STRENGTH	WEIGHT PER 100
USE- 04	52 - 3	2 1/8"	1 3/4"	1/2"	11/16"	18000 LBS.	120 LBS.
USE- 05	52 - 3	2 1/8"	1 5/8"	5/8"	11/16"	18000 LBS.	122 LBS.
USE- 06	52- 3 52- 5	2 1/8"	1 3/4"	3/4"	11/16"	25000 LBS.	128 LBS.
USE- 06 - A	52- 3 52- 5	2 3/4"	2"	3/4"	13/16"	30000 LBS.	175 LBS.
USE- 07	52- 3 52- 5	2 1/8"	1 5/8"	7/8"	11/16"	30000 LBS.	132 LBS.
USE- 10	52- 3 52- 5	2 1/8"	1 5/8"	1"	11/16"	30000 LBS.	138 LBS.
USE- 11	52- 3 52- 5	2 1/8"	1 5/8"	1 1/8"	11/16"	30000 LBS.	146 LBS.
USE- 13	52- 3 52- 5	2 1/8"	1 5/8"	1 3/8"	11/16"	30000 LBS.	168 LBS.
USE- 13 - A	52- 3 52- 5	2 1/8"	1 5/8"	1 5/16"	11/16"	30000 LBS.	155 LBS.
USE- 15 - 50	52 - 8 52 - 11	3 9/32"	2 1/4"	1 5/8"	11/16"	50000 LBS.	295 LBS.
USE- 20	52 - 8 52 - 11	5 5/16"	2 1/4"	1 3/16"	13/16"	50000 LBS.	578 LBS.
USE- 20 - 1	52 - 8 52 - 11	5 5/16"	2 1/4"	1 7/16"	13/16"	50000 LBS.	584 LBS.
USE- 20 - 2	52 - 8 52 - 11	5 5/16"	2 1/4"	1 1/16"	1 1/16"	50000 LBS.	600 LBS.

THE ABOVE SOCKET CLEVISES ARE USED TO ATTACH CLAMPS TO BALL AND SOCKET INSULATORS.
OTHER SIZES ARE AVAILABLE UPON REQUEST.

THE MATERIAL IS AS FOLLOWS : BODY : FORGED STEEL

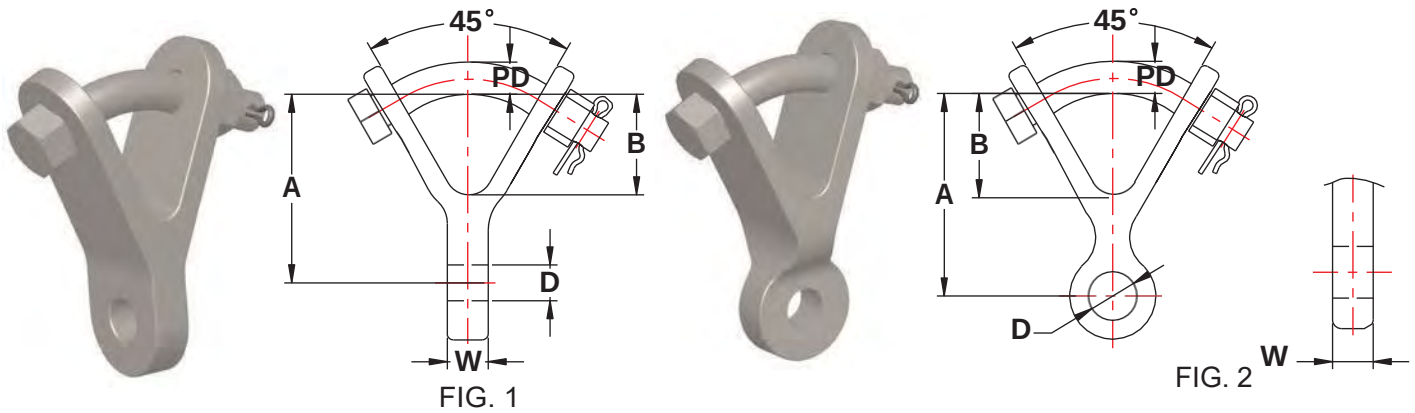
CLEVIS PIN OR BOLT : HIGH GRADE STEEL

COTTER KEY : STAINLESS STEEL

FERROUS PARTS ARE HOT DIPPED GALVANIZED TO ASTM A153



Y-CLEVIS EYE



CATALOG NUMBER	FIG. NO.	ULTIMATE STRENGTH	DIM. A	DIM. B	DIM. W	DIM. PD	DIA. D	APPROX. WEIGHT PER 100
UYCE - 04	1	19000 LBS.	2 13/16"	1 3/8"	1/2"	3/4"	11/16"	176 LBS.
UYCE - 04 - 90	2	19000 LBS.	2 7/16"	1 5/8"	1/2"	3/4"	11/16"	176 LBS.
UYCE - 05	1	20000 LBS.	2 13/16"	1 3/8"	5/8"	3/4"	11/16"	186 LBS.
UYCE - 05 - 90	2	20000 LBS.	2 7/16"	1 5/8"	5/8"	3/4"	11/16"	186 LBS.
UYCE - 05 - 90 - 30	2	30000 LBS.	2 7/16"	1 5/8"	5/8"	3/4"	11/16"	186 LBS.
UYCE - 06	1	25000 LBS.	2 13/16"	1 3/8"	3/4"	3/4"	11/16"	190 LBS.
UYCE - 06 - 90	2	25000 LBS.	2 7/16"	1 5/8"	3/4"	3/4"	11/16"	190 LBS.
UYCE - 07	1	30000 LBS.	2 13/16"	1 3/8"	7/8"	3/4"	11/16"	190 LBS.
UYCE - 10	1	30000 LBS.	2 13/16"	1 3/8"	1"	3/4"	11/16"	194 LBS.
UYCE - 10 - 90	2	30000 LBS.	2 7/16"	1 5/8"	1"	3/4"	11/16"	194 LBS.
UYCE - 11	1	30000 LBS.	2 13/16"	1 3/8"	1 1/8"	3/4"	11/16"	200 LBS.
UYCE - 12 - 90	2	30000 LBS.	2 7/16"	1 5/8"	1 1/4"	3/4"	11/16"	248 LBS.
UYCE - 13 - 90	2	30000 LBS.	2 7/16"	1 5/8"	1 3/8"	3/4"	11/16"	224 LBS.
UYCE - 16 - 90	2	30000 LBS.	2 7/16"	1 5/8"	1 3/4"	3/4"	11/16"	230 LBS.
UYCE - 16 - 90 - 40	2	40000 LBS.	2 3/8"	1 9/16"	1 3/4"	7/8"	13/16"	250 LBS.
UYCE - 20 - 90	2	30000 LBS.	2 7/16"	1 5/8"	2"	3/4"	11/16"	276 LBS.
UYCE - 21 - 90 - 40	2	40000 LBS.	2 3/8"	1 9/16"	2 1/8"	7/8"	13/16"	300 LBS.
UYCE - 22 - 90	2	30000 LBS.	2 7/16"	1 5/8"	2 1/4"	3/4"	11/16"	276 LBS.
UYCE - 24 - 90	2	30000 LBS.	2 7/16"	1 5/8"	2 1/2"	3/4"	11/16"	300 LBS.
UYCE - 26 - 90 - 40	2	40000 LBS.	2 3/8"	1 9/16"	2 3/4"	7/8"	13/16"	346 LBS.

THE ABOVE Y - CLEVIS EYES ARE PRIMARILY USED TO CONNECT YOKE PLATES OR OTHER TOWER HARDWARE TO CONDUCTOR CLAMPS.

THE MATERIAL IS : BODY AND HARDWARE - DUCTILE IRON HOT DIPPED GALVANIZED TO ASTM A153
COTTER PIN - STAINLESS STEEL



THIMBLE CLEVIS

MODEL.	DIMENSIONS				ULTIMATE STRENGTH	APPROXIMATE WEIGHT PER 100 PCS
	B	C	E	F		
TC10	2.4	3.25	0.75	0.56	10000 LBS	120 LBS
TC15	2.4	3.25	0.69	0.63	15000 LBS	120 LBS
TC20	3.1	4.1	0.94	0.63	20000 LBS	160 LBS
TC35	3.9	4.3	1.1	0.75	35000 LBS	260 LBS

SEE FIGURE 1 FOR TC15, FIGURE 2 FOR TC10, 20 & 35

MATERIAL:

- * MAIN BODY – DUCTILE IRON
- * HARDWARE – HOT DIP GALVANIZED
- * COTTER PIN – STAINLESS STEEL

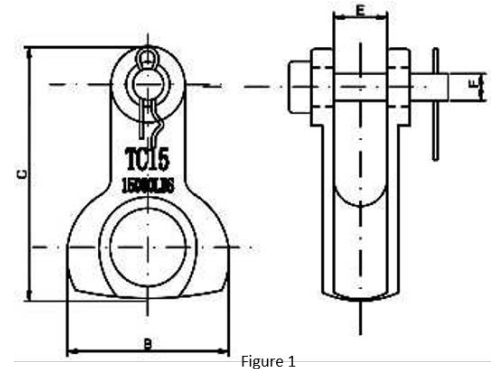


Figure 1

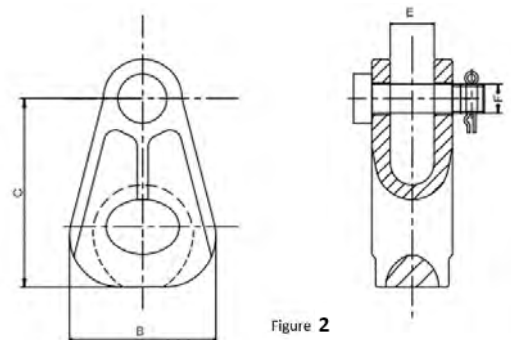


Figure 2

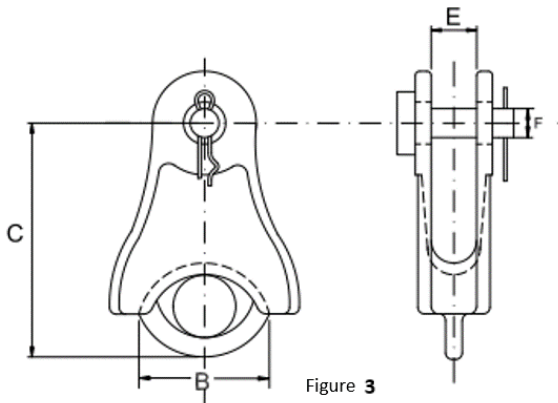


Figure 3

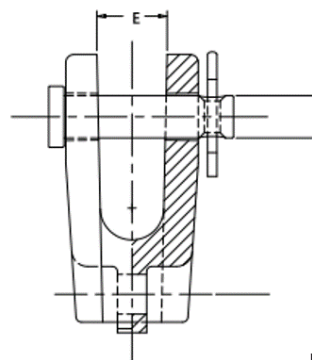


Figure 4

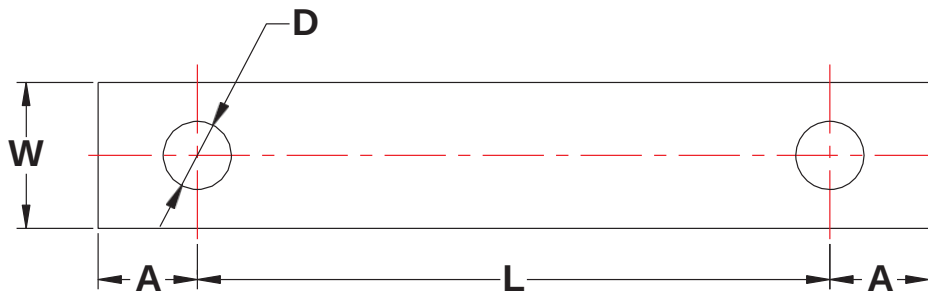
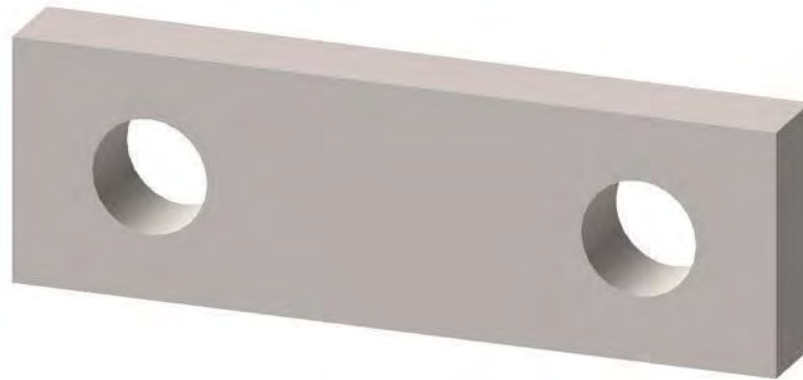
MODEL.	FIGURE	DIMENSIONS				ULTIMATE STRENGTH	APPROXIMATE WEIGHT PER 100 PCS	MAIN BODY MATERIAL
		B	C	E	F			
TC88	3	2.3	3.6	0.88	0.63	20000 LBS	175 LBS	DUCTILE IRON
TCA12	3	2.4	3.9	0.88	0.63	12000 LBS	65 LBS	ALUMINUM
TCA15	4	--	4.1	1.1	0.63	15000 LBS	80 LBS	ALUMINUM

MATERIAL:

- * HARDWARE – HOT DIP GALVANIZED
- * COTTER PIN – STAINLESS STEEL



TOWER EXTENSION STRAPS



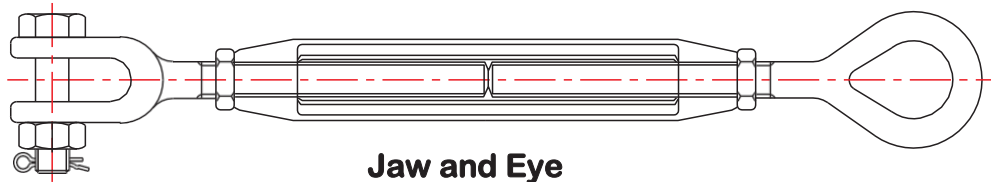
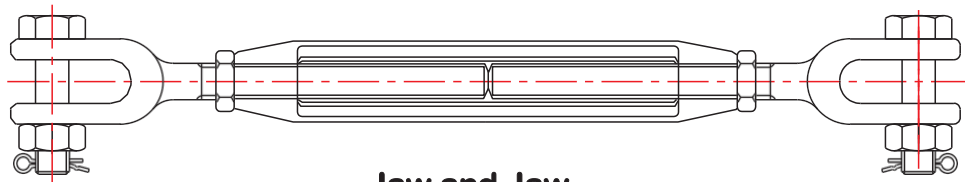
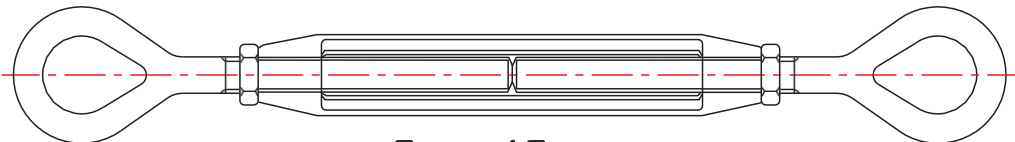
CATALOG NUMBER	ULTIMATE STRENGTH	DIM. A	DIM. L	DIM. W	STRAP THICKNESS	HOLES DIAMETER D	APPROX. WEIGHT PER 100
TES- 10	10,000 LBS.	3/4"	4"	1 1/2"	1/4"	11/16"	55 LBS.
TES- 20	20,000 LBS.	7/8"	4"	1 1/2"	1/2"	11/16"	110 LBS.
TES- 30	30,000 LBS.	1 1/8"	4"	2"	3/4"	15/16"	260 LBS.
TES- 40	40,000 LBS.	1 1/2"	4"	2 1/2"	3/4"	15/16"	365 LBS.
TES- 60	60,000 LBS.	2"	4"	2 1/2"	1"	1 1/8"	560 LBS.
TES- 80	80,000 LBS.	2"	4"	3"	1"	1 1/4"	670 LBS.

THE ABOVE EXTENSION STRAPS ARE PRIMARILY USED TO OBTAIN PROPER TOWER CLEARANCE WITHIN A TRANSMISSION ASSEMBLY. THEY MAY BE ATTACHED TO A VARIETY OF ASSOCIATED HARDWARE. THESE STRAPS CAN BE FURNISHED IN MANY OTHER SIZES. PLEASE CONTACT GPP WITH YOUR SPECIFIC REQUIREMENTS.

THE MATERIAL USED IS STEEL HOT DIPPED GALVANIZED TO ASTM A153.



TURNBUCKLES HOT DIPPED GALVANIZED

**Jaw and Eye****Jaw and Jaw****Eye and Eye**

CATALOG NUMBER			SIZE AND TAKE UP	ULTIMATE STRENGTH	APPROXIMATE WEIGHT PER EACH		
JAW/EYE	JAW/JAW	EYE/EYE			JAW/EYE	JAW/JAW	EYE/EYE
JE586	JJ586	EE586	5/8" X 6"	16000 LBS.	2.8 LBS.	3.0 LBS.	2.7 LBS.
JE589	JJ589	EE589	5/8" X 9"	16000 LBS.	3.5 LBS.	3.7 LBS.	3.2 LBS.
JE5812	JJ5812	EE5812	5/8" X 12"	16000 LBS.	4.0 LBS.	4.2 LBS.	3.6 LBS.
JE346	JJ346	EE346	3/4" X 6"	25000 LBS.	4.5 LBS.	4.9 LBS.	4.0 LBS.
JE349	JJ349	EE349	3/4" X 9"	25000 LBS.	5.2 LBS.	5.6 LBS.	4.7 LBS.
JE3412	JJ3412	EE3412	3/4" X 12"	25000 LBS.	6.4 LBS.	6.7 LBS.	6.0 LBS.
JE3418	JJ3418	EE3418	3/4" X 18"	25000 LBS.	7.6 LBS.	8.0 LBS.	7.2 LBS.
JE7812	JJ7812	EE7812	7/8" X 12"	35000 LBS.	8.6 LBS.	9.0 LBS.	8.2 LBS.
JE7818	JJ7818	EE7818	7/8" X 18"	35000 LBS.	11.9 LBS.	12.7 LBS.	10.7 LBS.
JE112	JJ112	EE112	1" X 12"	45000 LBS.	12.7 LBS.	13.8 LBS.	12.0 LBS.
JE114	JJ114	EE114	1" X 14"	45000 LBS.	14.2 LBS.	15.3 LBS.	13.4 LBS.
JE118	JJ118	EE118	1" X 18"	45000 LBS.	15.5 LBS.	16.7 LBS.	14.4 LBS.
JE124	JJ124	EE124	1" X 24"	45000 LBS.	17.7 LBS.	18.8 LBS.	16.4 LBS.
Je11412	JJ11412	EE11412	1 1/4" X 12"	67500 LBS.	21.2 LBS.	23.4 LBS.	18.9 LBS.
Je11418	JJ11418	EE11418	1 1/4" X 18"	67500 LBS.	25.3 LBS.	27.6 LBS.	23.3 LBS.
Je11424	JJ11424	EE11424	1 1/4" X 24"	67500 LBS.	30.7 LBS.	32.0 LBS.	27.3 LBS.
Je11212	JJ11212	EE11212	1 1/2" X 12"	105500 LBS.	35.0 LBS.	40.0 LBS.	30.0 LBS.
Je11218	JJ11218	EE11218	1 1/2" X 18"	105500 LBS.	40.0 LBS.	44.0 LBS.	36.0 LBS.



YOKE PLATES DELTA STYLE

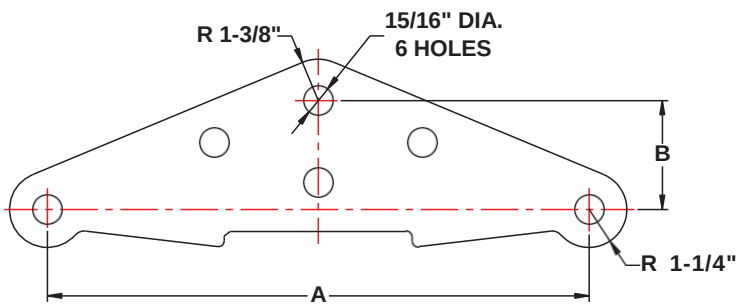


FIG. 1

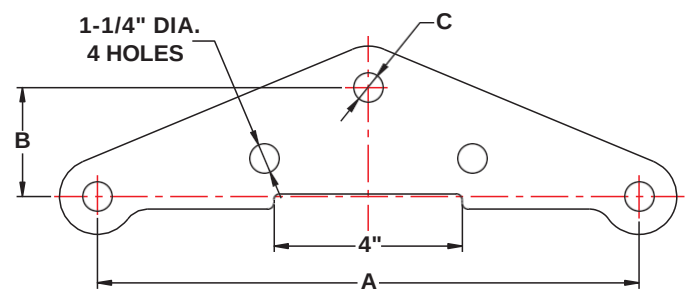


FIG. 2

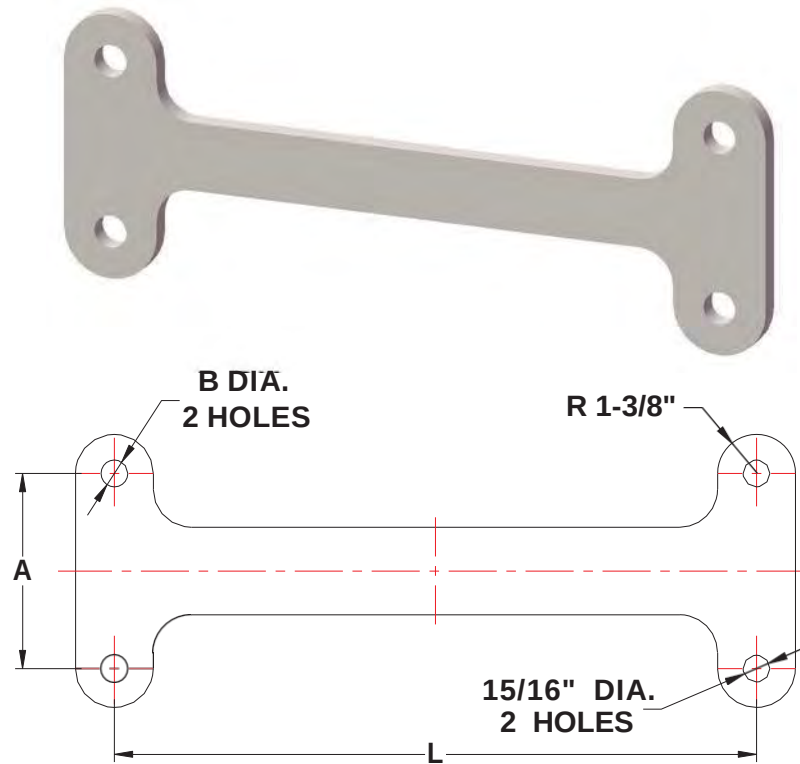
CATALOG NUMBER	FIGURE NO.	PLATE MATERIAL	ULTIMATE STRENGTH	DIM. A	DIM. B	DIM. C	PLATE THICKNESS
DYP30- 18	1	DUCTILE	30000 LBS.	18"	3 5/8"	—	3/4"
DYP40 - 13S	1	STEEL	40000 LBS.	13"	3 5/8"	—	5/8"
DYP50- 18	1	DUCTILE	50000 LBS.	18"	5"	—	3/4"
DYP60 - 13S	1	STEEL	60000 LBS.	13"	3 5/8"	—	3/4"
DYP30 - 13P	2	DUCTILE	30000 LBS.	13"	6"	15/16"	5/8"
DYP50 - 18P	2	DUCTILE	50000 LBS.	18"	5"	1 1/4"	3/4"
DYP60 - 18P	2	DUCTILE	60000 LBS.	18"	5"	1 1/4"	3/4"

THE ABOVE DELTA STYLE YOKE PLATES ALONG WITH A SINGLE STRING OF INSULATORS CAN BE USED TO BUNDLE TWO CONDUCTORS IN SUSPENSION. THEY MAY ALSO BE USED IN DEADENDING IN CONJUNCTION WITH TWO STRINGS OF INSULATORS AND ONE DEADEND CLAMP. THIS PRODUCT CAN BE SUPPLIED IN A VARIETY OF CONFIGURATIONS. FROM HOLE SPACING TO PLATE THICKNESS, GPP CAN HANDLE YOUR CUSTOM REQUESTS.

THE MATERIAL IS DUCTILE IRON OR STEEL (SUFFIX "S") HOT DIPPED GALVANIZED A153.



YOKE PLATES RECTANGULAR STYLE



CATALOG NUMBER	ULTIMATE STRENGTH AT EACH HOLE	PLATE MATERIAL	DIM. L	DIM. A	DIM. B	PLATE THICKNESS
RYP30- 18 - 5/8 S	30000 LBS.	STEEL	18"	5"	15/16"	5/8"
RYP40- 18 - 3/4 S	40000 LBS.	STEEL	18"	5"	15/16"	3/4"
RYP30- 13C- 3/4	30000 LBS.	DUCTILE	13"	4 1/2"	1"	3/4"
RYP30- 18C- 3/4	30000 LBS.	DUCTILE	18"	6"	1 1/4"	3/4"

THE ABOVE RECTANGULAR STYLE YOKE PLATES ALONG WITH A DOUBLE STRING OF INSULATORS CAN BE USED TO DEADEND A TWO CONDUCTOR BUNDLE. THIS PRODUCT CAN BE SUPPLIED IN A VARIETY OF CONFIGURATIONS. THE SERIES WITH THE SUFFIX "C" REPRESENT PLATES FURNISHED WITH A CENTER HOLE. FROM HOLE SPACING TO PLATE THICKNESS, GPP CAN HANDLE YOUR CUSTOM REQUESTS.

THE MATERIAL IS DUCTILE IRON OR STEEL (ADD THE SUFFIX "S") HOT DIPPED GALVANIZED TO ASTM A153.



INDEX

SECTION 7 - PORCELAIN & POLYMER CUTOUTS

PORCELAIN FUSE CUTOUTS 15 KV -----	7-1
PORCELAIN FUSE CUTOUTS 27 KV -----	7-2
PORCELAIN LOADBEAK CUTOUTS 15 KV -----	7-3
PORCELAIN LOADBEAK CUTOUTS 15/27 -----	7-4
FUSE LINKS TYPE K -----	7-5
FUSE LINKS TYPE H -----	7-6
FUSE LINKS TYPE T -----	7-7
POLYMER FUSE CUTOUTS 15 KV -----	7-8
POLYMER FUSE CUTOUTS 27 KV -----	7-9

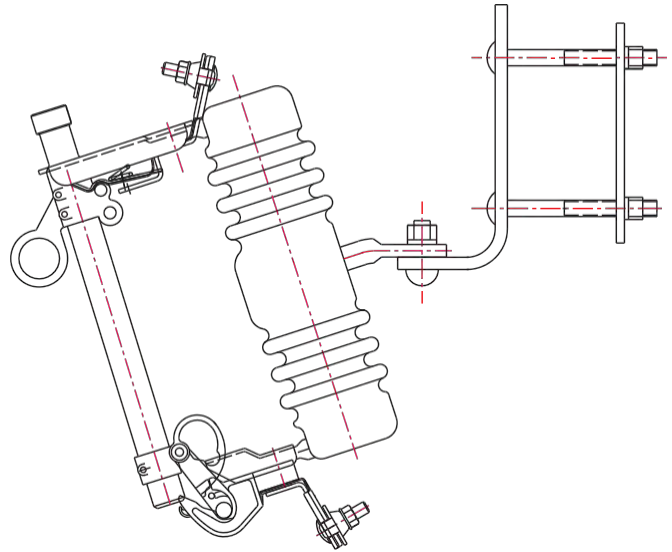


PORCELAIN FUSE CUTOUTS 15 KV

The “NLBC” fuse cutout is designed for the most severe working conditions, where electrical and mechanical stresses become critical from the interruption of high fault currents. Designed for outdoor use, the “NLBC” fuse cutout is of a heavy duty design enabling the unit to withstand high torsional forces in opening and closing operations with use of “load buster” tools. The “NLBC” fuse cutout is designed with a fuse link guide which also acts as a fuse holder locking device (flipper) which reduces the tension on the fuse link during the closing operations. Fast expulsion of the link after melting within the fuse tube enables the “NLBC” fuse cutout to operate very efficiently at low fault currents as well. The “NLBC” fuse cutout is fully certified with all applicable IEEE/ANSI/IEC standards and will afford the user many years of trouble free usage.

DESIGN FEATURES

- High mechanical strength insulator.
- Tin plated parallel connectors.
- Stainless steel spring.
- “Load Buster” hook.
- Silver plated contacts.
- Fuse tube and cutout cast components in bronze.
- Steel hardware and NEMA bracket are galvanized per ANSI/IEEE/ASTM standards.



15KV(110KV) BIL

CATALOG NUMBER	MAXIMUM DESIGN VOLTAGE	CONTINUOUS CURRENT (AMPS)	INTERRUPTING CAPACITY (ASYM AMPS)	BIL	WEIGHT
NLBC-15-100P	15KV	100	10000	110KV	18LBS/8.18KG
NLBC-15-100/16P	15KV	100	16000	110KV	18LBS/8.18KG
NLBC-15-200P	15KV	200	12000	110KV	20LBS/9.09KG
NLBC-15-300P	15KV	300	12000	110KV	20LBS/9.09KG

ALL GPP Cutouts use standard interchangeable fuse barrels.

****Suffix: P = Parallel Groove Clamps; B = NEMA Bracket**

To order small eyebolt (No. 8 sol. through 2/0 str.) change “P” to “E” (example:

NLBC-15-100E) To order with NEMA Heavy Duty B Bracket add the suffix “B” to the catalog number.

(Example: NLBC-15-100PB).

To order the Extended Type Bracket add the suffix “X” . (2-5/8” Longer than the “B” bracket.)

(Example: NLBC-15-100-PX).

Cat. numbers NLBC-15-100/16P& NLBC-15-200P require Arc Shortening Rod.

Leakage Distance for 110kV BIL = 8.7”.

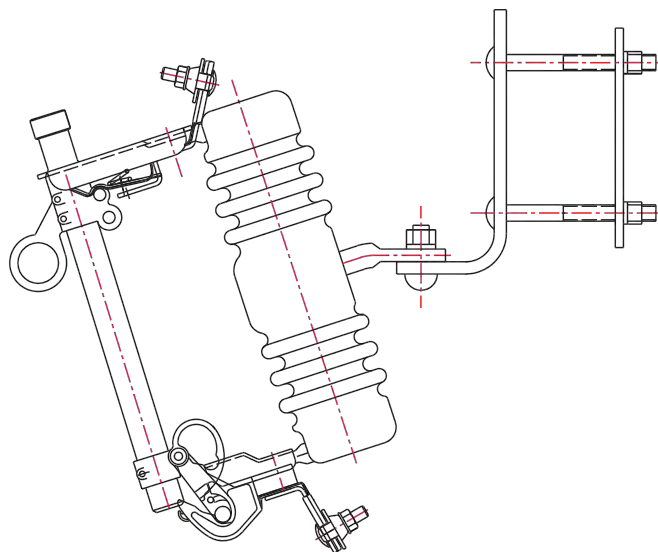


PORCELAIN FUSE CUTOUTS 27 KV

The “NLBC” fuse cutout is designed for the most severe working conditions, where electrical and mechanical stresses become critical from the interruption of high fault currents. Designed for outdoor use, the “NLBC” fuse cutout is of a heavy duty design enabling the unit to withstand high torsional forces in opening and closing operations with use of “load buster” tools. The “NLBC” fuse cutout is designed with a fuse link guide which also acts as a fuse holder locking device (flipper) which reduces the tension on the fuse link during the closing operations. Fastexpulsion of the link after melting within the fuse tube enables the “NLBC” fuse cutout to operate very efficiently at low fault currents as well. The “NLBC” fuse cutout is fully certified with all applicable IEEE/ANSI/IEC standards and will afford the user many years of trouble free usage.

DESIGN FEATURES

- High mechanical strength insulator.
- Tin plated parallel connectors.
- Stainless steel spring.
- “Load Buster” hook.
- Silver plated contacts.
- Fuse tube and cutout cast components in bronze.
- Steel hardware and NEMA bracket are galvanized per ANSI/IEEE/ASTM standards.



27 kV (125kV BIL)

Catalog Number**	Maximum Design Voltage	Continuous Current (Amps)	Interrupting Capacity (Asym Amps)	BIL	Weight
NLBC-27-100P	27 kV	100	8,000	125 kV	20lbs /9.09kg
NLBC-27-100/12P	27kV	100	12,000	125 kV	20lbs /9.09kg
NLBC-27-200P	27 kV	200	10,000	125 kV	20lbs /9.09kg
NLBC-27-300P	27 kV	300	12,000	125 kV	20lbs /9.09kg

ALL GPP Cutouts use standard interchangeable fuse barrels.

****Suffix: P = Parallel Groove Clamps; N = NEMA Bracket**

To order small eyebolt (No. 8 sol. through 2/0 str.) change “P” to “E” (example: NLBC-27-100E). To order with NEMA Bracket add the suffix “B” to the catalog number. (example: NLBC-27-100PB). To order the Extended Type Bracket add the suffix “X” . (2-5/8” Longer than the “B” bracket.) (Example: NLBC-27-100-PX).

Cat. numbers NLBC-27-100/12P& NLBC-27-200P require Arc Shortening Rod.

Leakage Distance for 125 kV BIL = 12.6”.

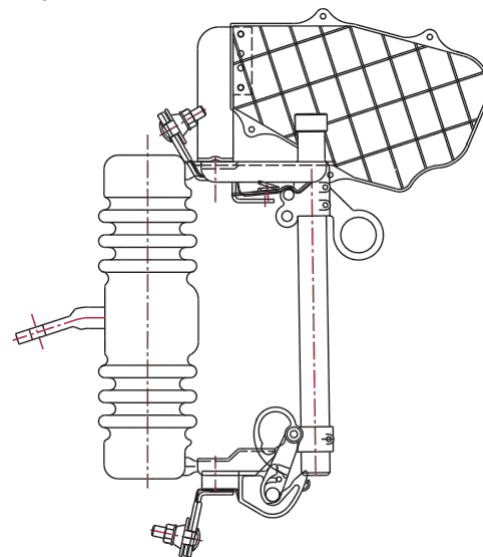


PORCELAIN LOADBEAK CUTOUTS 15 KV

The “LBC” fuse cutout is designed for the most severe working conditions, where stress from interruption in short circuits is a relevant factor. Designed for outdoor use, the “LBC” fuse cutout is equipped with husky steel parts to support high torsion forces in closing and opening with use of “Load Buster” tools. Designed with a fuse link guide which also acts as a fuse holder locking device (flipper) thus reducing the tension on the fuse link during the closing operations. Fast expulsion of the link after melting within the fuse tube, makes the “LBC” fuse cutout very efficient in low short circuit currents. Approved in all of the tests specified by ABNT/IEC/ANSI standards, the “LBC” fuse cutout is a proven product.

DESIGN FEATURES

- High mechanical strength insulator.
- Tin plated parallel connectors.
- Stainless steel spring.
- “Load Buster” hook.
- Silver plated contacts.
- Fuse tube and cutout cast components in bronze.
- Steel hardware and NEMA bracket are galvanized per ANSI/IEEE/ASTM standards.



15 kV (110KV BIL)

Catalog Number**	Maximum Design Voltage	Continuous Current (Amps)	Interrupting Capacity (Asym Amps)	BIL	ARC ROD.
LBC-15-100P	15KV	100	10000	110 kV	NO
LBC-15-100/16P	15KV	100	16000	110 kV	YES
LBC-15-200P	15KV	200	12000	110 kV	YES
LBC-15-300P	15KV	300	12000	110 kV	NO

ALL GPP Cutouts use standard interchangeable fuse barrels.

**Suffix: P = Parallel Groove Clamps; N = NEMA Bracket

To order small eyebolt (No. 8 sol. through 2/0 str.) change “P” to “E” (example: LBC-15-100 E).

To order with NEMA Bracket add the suffix “B” to the catalog number. (example: LBC-15-100PB).

To order the Extended Type Bracket add the suffix “X” . (2-5/8” Longer than the “B” bracket.)

(Example: LBC-15-100-PX).

Cat. numbers LBC-15-100/16P and LBC-15-200P requires an Arc Shortening Rod*.

Leakage Distance for 110 kV BIL = 8.5”.

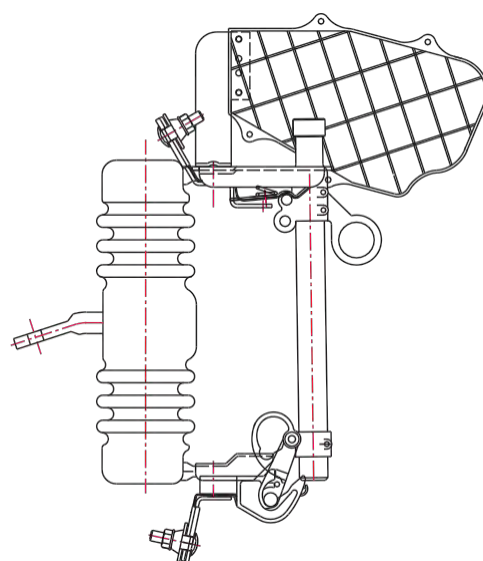


PORCELAIN LOADBEAK CUTOUTS 15/27 KV

The “LBC” fuse cutout is designed for the most severe working conditions, where stress from interruption in short circuits is a relevant factor. Designed for outdoor use, the “LBC” fuse cutout is equipped with husky steel parts to support high torsion forces in closing and opening with use of “Load Buster” tools. Designed with a fuse link guide which also acts as a fuse holder locking device (flipper) thus reducing the tension on the fuse link during the closing operations. Fast expulsion of the link after melting within the fuse tube, makes the “LBC” fuse cutout very efficient in low short circuit currents. Approved in all of the tests specified by ABNT/IEC/ANSI standards, the “LBC” fuse cutout is a proven product.

DESIGN FEATURES

- High mechanical strength insulator.
- Tin plated parallel connectors.
- Stainless steel spring.
- “Load Buster” hook.
- Silver plated contacts.
- Fuse tube and cutout cast components in bronze.
- Steel hardware and NEMA bracket are galvanized per ANSI/IEEE/ASTM standards.



15/27 kV (110KV BIL)

Catalog Number**	Maximum Design Voltage	Continuous Current (Amps)	Interrupting Capacity (Asym Amps)	BIL	ARC ROD*
LBC-15/27-100P	15/27KV	100	8000	125 kV	NO
LBC-15/27-100/12P	15/27KV	100	12000	125 kV	YES
LBC-15/27-200P	15/27KV	200	10000	125 kV	NO
LBC-15/27-300P	15/27KV	300	12000	125 kV	NO

ALL GPP Cutouts use standard interchangeable fuse barrels.

**Suffix: P = Parallel Groove Clamps; N = NEMA Bracket

To order small eyebolt (No. 8 sol. through 2/0 str.) change “P” to “E” . (example: LBC-15/27-100 E).

To order with NEMA Bracket add the suffix “B” to the catalog number. (example: LBC-15/27-100PB).

To order the Extended Type Bracket add the suffix “X” . (2-5/8” Longer than the “B” bracket.)

(Example: LBC-15/27-100-PX).

Cat. Numbers LBC-15/27-100/12P requires an Arc Shortening Rod*.

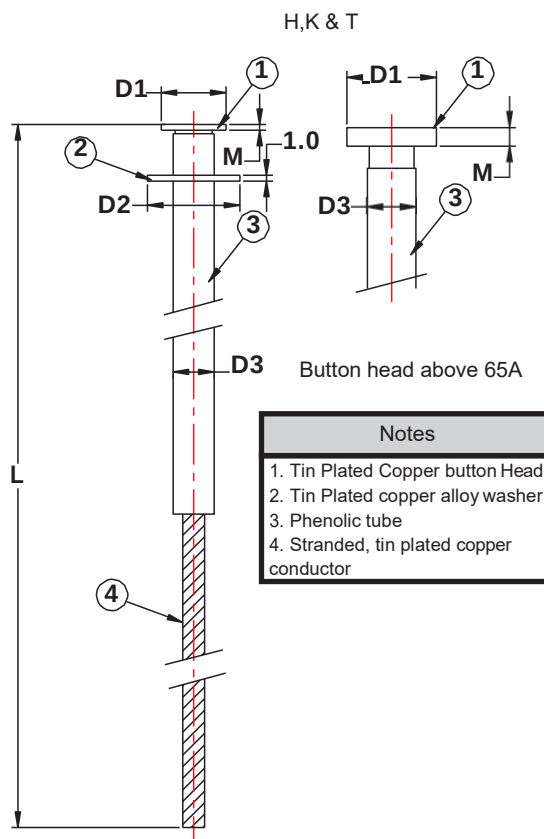
Leakage Distance for 125 kV BIL = 11”.



FUSE LINKS TYPE K

Type K (Fast) Fuse Links For Distribution Systems through 27kV 23 Inch Length

Quality is important in the protection of overhead distribution systems and their equipment, particularly expensive transformers. These „NLBC” fuse links incorporate the most advanced technology available to yield a high quality, consistent product. These fuse links use approved and pre-tested materials and are the result of years of research in manufacturing and testing. These fuse links are manufactured as per the ABNT/ANSI/NEMA standards and tested with new state of the art procedures to ensure total quality and performance.



DESIGN FEATURES

- Swaged compressed terminals—no welding
- High mechanical resistance
- Efficient short circuit current interruption
- High thermal and chemical stability
- Minimum variation of time x current characteristics during lifetime

Catalog Number	AMPS	Dimension (Inches)			
		D1	D2	D3	M
UP-FL3K-1	1	0.50	0.75	0.30	0.08
UP-FL3K-2	2	0.50	0.75	0.30	0.08
UP-FL3K-3	3	0.50	0.75	0.30	0.08
UP-FL3K-4	4	0.50	0.75	0.30	0.08
UP-FL3K-5	5	0.50	0.75	0.30	0.08
UP-FL3K-6	6	0.50	0.75	0.30	0.08
UP-FL3K-8	8	0.50	0.75	0.30	0.08
UP-FL3K-10	10	0.50	0.75	0.30	0.08
UP-FL3K-12	12	0.50	0.75	0.30	0.08
UP-FL3K-15	15	0.50	0.75	0.30	0.08
UP-FL3K-20	20	0.50	0.75	0.30	0.08
UP-FL3K-25	25	0.50	0.75	0.30	0.08
UP-FL3K-30	30	0.50	0.75	0.30	0.08
UP-FL3K-40	40	0.50	0.75	0.30	0.08
UP-FL3K-50	50	0.50	0.75	0.30	0.16
UP-FL3K-65	65	0.75		0.40	0.16
UP-FL3K-80	80	0.75		0.40	0.16
UP-FL3K-100	100	0.75		0.40	0.16
UP-FL3K-140	140	1.00			0.16
UP-FL3K-200	200	1.00			0.16

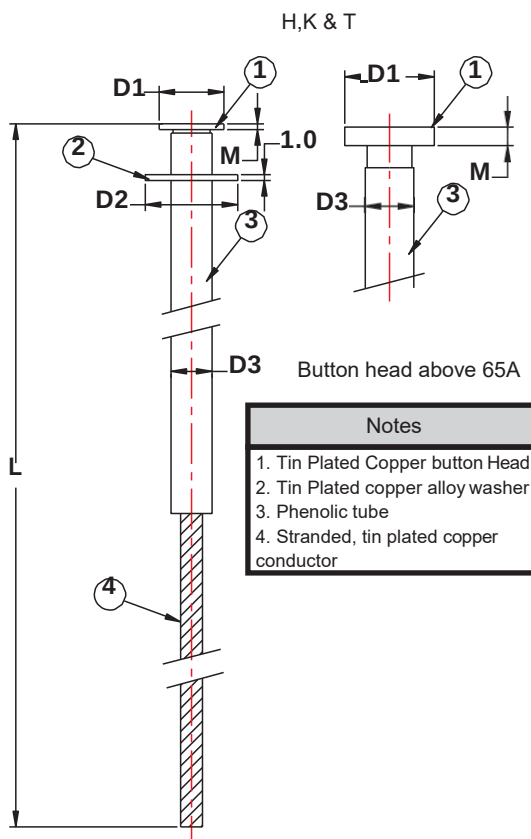
All UP-FL3K are type K (fast) removable button head Fuse Links. For Fuse Links with non-removable button head use item prefix: UP-FL11K-XX where XX is the desired amperage.



FUSE LINKS TYPE H

Type H (High Surge) Fuse Links For Distribution Systems through 27kV 23 Inch Length

Quality is important in the protection of overhead distribution systems and their equipment, particularly expensive transformers. These „NLBC“ fuse links incorporate the most advanced technology available to yield a high quality, consistent product. These fuse links use approved and pre-tested materials and are the result of years of research in manufacturing and testing. These fuse links are manufactured as per the ABNT/ANSI/NEMA standards and tested with new state of the art procedures to ensure total quality and performance.



Catalog Number	AMPS	Dimension (Inches)			
		D1	D2	D3	M
UP-FL3H-1	1	0.50	0.75	0.30	0.08
UP-FL3H-2	2	0.50	0.75	0.30	0.08
UP-FL3H-3	3	0.50	0.75	0.30	0.08
UP-FL3H-4	4	0.50	0.75	0.30	0.08
UP-FL3H-5	5	0.50	0.75	0.30	0.08
UP-FL3H-6	6	0.50	0.75	0.30	0.08
UP-FL3H-8	8	0.50	0.75	0.30	0.08
UP-FL3H-10	10	0.50	0.75	0.30	0.08
UP-FL3H-12	12	0.50	0.75	0.30	0.08
UP-FL3H-15	15	0.50	0.75	0.30	0.08
UP-FL3H-20	20	0.50	0.75	0.30	0.08
UP-FL3H-25	25	0.50	0.75	0.30	0.08
UP-FL3H-30	30	0.50	0.75	0.30	0.08
UP-FL3H-40	40	0.50	0.75	0.30	0.08
UP-FL3H-50	50	0.50	0.75	0.30	0.16
UP-FL3H-65	65	0.75		0.40	0.16
UP-FL3H-80	80	0.75		0.40	0.16
UP-FL3H-100	100	0.75		0.40	0.16
UP-FL3H-140	140	1.00			0.16
UP-FL3H-200	200	1.00			0.16

DESIGN FEATURES

- Swaged compressed terminals—no welding
- High mechanical resistance
- Efficient short circuit current interruption
- High thermal and chemical stability
- Minimum variation of time x current characteristics during lifetime

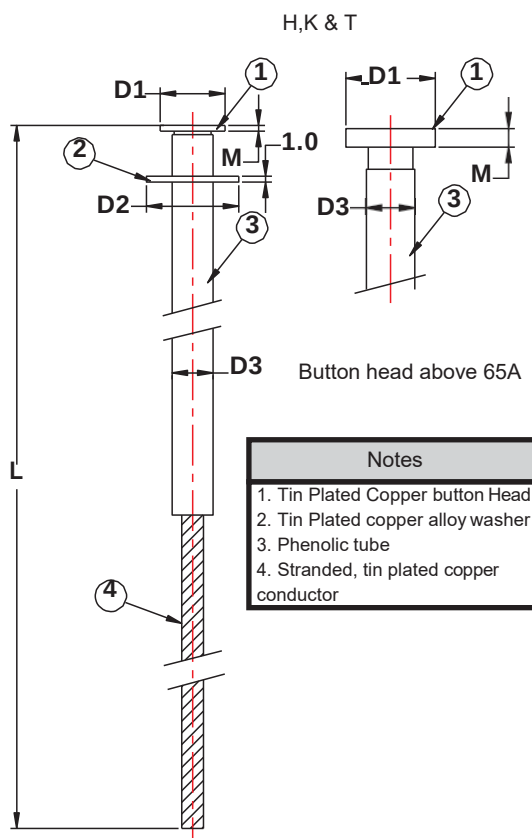
All UP-FL3H are type H (high surge) removable button head Fuse Links. For Fuse Links with non-removable button head use item prefix: UP-FL11H-XX where XX is the desired amperage.



FUSE LINKS TYPE T

Type T (Slow) Fuse Links For Distribution Systems through 27kV 23 Inch Length

Quality is important in the protection of overhead distribution systems and their equipment, particularly expensive transformers. These „NLBC“ fuse links incorporate the most advanced technology available to yield a high quality, consistent product. These fuse links use approved and pre-tested materials and are the result of years of research in manufacturing and testing. These fuse links are manufactured as per the ABNT/ANSI/NEMA standards and tested with new state of the art procedures to ensure total quality and performance.



Catalog Number	AMPS	Dimension (Inches)			
		D1	D2	D3	M
UP-FL3T-1	1	0.50	0.75	0.30	0.08
UP-FL3T-2	2	0.50	0.75	0.30	0.08
UP-FL3T-3	3	0.50	0.75	0.30	0.08
UP-FL3T-4	4	0.50	0.75	0.30	0.08
UP-FL3T-5	5	0.50	0.75	0.30	0.08
UP-FL3T-6	6	0.50	0.75	0.30	0.08
UP-FL3T-8	8	0.50	0.75	0.30	0.08
UP-FL3T-10	10	0.50	0.75	0.30	0.08
UP-FL3T-12	12	0.50	0.75	0.30	0.08
UP-FL3T-15	15	0.50	0.75	0.30	0.08
UP-FL3T-20	20	0.50	0.75	0.30	0.08
UP-FL3T-25	25	0.50	0.75	0.30	0.08
UP-FL3T-30	30	0.50	0.75	0.30	0.08
UP-FL3T-40	40	0.50	0.75	0.30	0.08
UP-FL3T-50	50	0.50	0.75	0.30	0.16
UP-FL3T-65	65	0.75		0.40	0.16
UP-FL3T-80	80	0.75		0.40	0.16
UP-FL3T-100	100	0.75		0.40	0.16
UP-FL3T-140	140	1.00			0.16
UP-FL3T-200	200	1.00			0.16

DESIGN FEATURES

- Swaged compressed terminals—no welding
- High mechanical resistance
- Efficient short circuit current interruption
- High thermal and chemical stability
- Minimum variation of time x current characteristics during lifetime

All UP-FL3T are type T (slow) removable button head Fuse Links. For Fuse Links with non-removable button head use item prefix: UP-FL11T-XX where XX is the desired amperage.

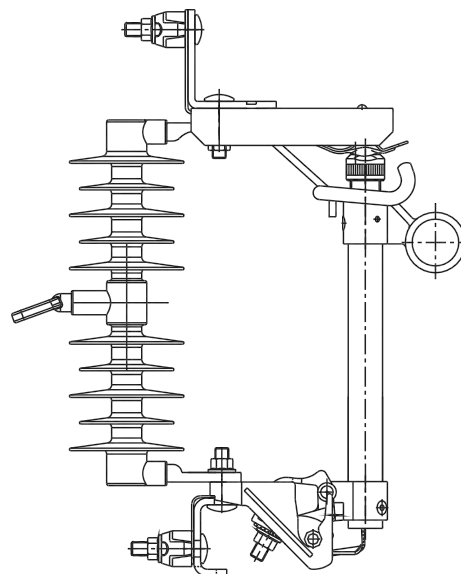


POLYMER FUSE CUTOUTS 15 KV

The “PNLBC” fuse cutout is designed for the most severe working conditions, where stress from interruption in short circuits is a relevant factor. Designed for outdoor use, the “PNLBC” fuse cutout is equipped with husky steel parts to support high torsion forces in closing and opening with use of “Load Buster” tools. Designed with a fuse link guide which also acts as a fuse holder locking device (flipper) thus reducing the tension on the fuse link during the closing operations. Fast expulsion of the link after melting within the fuse tube, makes the “PNLBC” fuse cutout very efficient in low short circuit currents. Approved in all of the tests specified by ABNT/IEC/ANSI standards, the “PNLBC” fuse cutout is a proven product.

DESIGN FEATURES

- * High mechanical strength insulator.
- * Tin plated parallel connectors.
- * Stainless steel spring.
- * “Load Buster” hook.
- * Silver plated contacts.
- * Fuse Tube and cutout cast components in bronze.
- * Steel hardware and NEMA bracket are galvanized per ANSI/IEEE/ASTM standards.



15KV(110KV) BIL

CATALOG NUMBER	MAXIMUM DESIGN VOLTAGE	CONTINUOUS CURRENT (AMPS)	INTERRUPTING CAPACITY (ASYM AMPS)	BIL	WEIGHT
PNLBC-15-100P	15KV	100	10000	110KV	9.6LBS/4.4KG
PNLBC-15-100/16P	15KV	100	16000	110KV	9.8LBS/4.5KG
PNLBC-15-200P	15KV	200	12000	110KV	10.4LBS/4.7KG
PNLBC-15-300P	15KV	300	12000	110KV	9.9LBS/4.5KG

ALL GPP Cutouts use standard interchangeable fuse barrels.

To order with a NEMA bracket, add a “B” to the end of the catalog number.

(Example: NLBC-15-100PB)

To order with an extended type bracket, add an “X” to the end of the catalog number.

(Example: NLBC-15-100PX)

This extended type bracket adds 2-5/8” more distance than the NEMA B bracket.

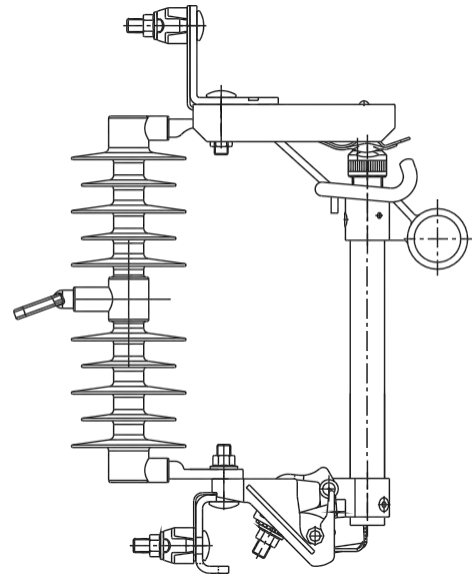


POLYMER FUSE CUTOUTS 27 KV

The “PNLBC” fuse cutout is designed for the most severe working conditions, where stress from interruption in short circuits is a relevant factor. Designed for outdoor use, the “PNLBC” fuse cutout is equipped with husky steel parts to support high torsion forces in closing and opening with use of “Load Buster” tools. Designed with a fuse link guide which also acts as a fuse holder locking device (flipper) thus reducing the tension on the fuse link during the closing operations. Fast expulsion of the link after melting within the fuse tube, makes the “PNLBC” fuse cutout very efficient in low short circuit currents. Approved in all of the tests specified by ABNT/IEC/ANSI standards, the “PNLBC” fuse cutout is a proven product.

DESIGN FEATURES

- * High mechanical strength insulator.
- * Tin plated parallel connectors.
- * Stainless steel spring.
- * “Load Buster” hook.
- * Silver plated contacts.
- * Fuse Tube and cutout cast components in bronze.
- * Steel hardware and NEMA bracket are galvanized per ANSI/IEEE/ASTM standards.



27 kV (125kV BIL)

Catalog Number**	Maximum Design Voltage	Continuous Current (Amps)	Interrupting Capacity (Asym Amps)	BIL	Weight
PNLBC-27-100P	27 kV	100	8,000	125 kV	11.0lbs /5.0kg
PNLBC-27-100/12P	27kV	100	12,000	125 kV	11.0lbs /5.0kg
PNLBC-27-200P	27 kV	200	10,000	125 kV	11.6lbs /5.3kg
PNLBC-27-300P	27 kV	300	12,000	125 kV	11.2lbs /5.1kg

ALL GPP Cutouts use standard interchangeable fuse barrels.

To order with a NEMA bracket, add a “B” to the end of the catalog number.

(Example: NLBC-27-100PB)

To order with an extended type bracket, add an “X” to the end of the catalog number.

(Example: NLBC-27-100PX)

This extended type bracket adds 2-5/8” more distance than the NEMA B bracket.

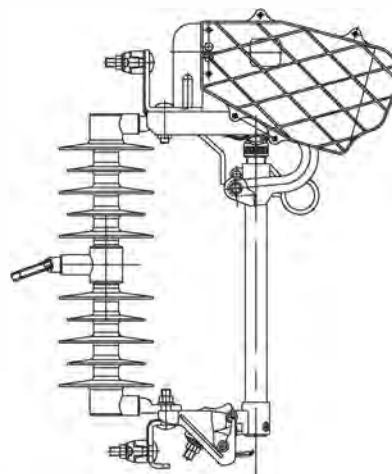


POLYMER LOADBREAK CUTOUTS 15 KV

The "PLBC" fuse cutout is designed for the most severe working conditions, where stress from interruption in short circuits is a relevant factor. Designed for outdoor use, the "PLBC" fuse cutout is equipped with husky steel parts to support high torsion forces in closing and opening with use of "Load Buster" tools. Designed with a fuse link guide which also acts as a fuse holder locking device (flipper) thus reducing the tension on the fuse link during the closing operations. Fast expulsion of the link after melting within the fuse tube, makes the "PLBC" fuse cutout very efficient in low short circuit currents. Approved in all of the tests specified by ABNT/IEC/ANSI standards, the "PLBC" fuse cutout is a proven product.

DESIGN FEATURES

- High mechanical strength insulator.
- Tin plated parallel connectors.
- Stainless steel spring.
- "Load Buster" hook.
- Silver plated contacts.
- Fuse tube and cutout cast components in bronze.
- Steel hardware and NEMA bracket are galvanized per ANSI/IEEE/ASTM standards.



15 kv (110KV BIL)

Catalog Number**	Maximum Design Voltage	Continuous Current (Amps)	Interrupting Capacity (Asym Amps)	BIL	ARC ROD*
PLBC-15-100P	15KV	100	10000	110 kV	NO
PLBC-15-100/16P	15KV	100	16000	110 kV	YES
PLBC-15-200P	15KV	200	12000	110 kV	YES
PLBC-15-300P	15KV	300	12000	110 kV	NO

ALL GPP Cutouts use standard interchangeable fuse barrels.

**Suffix: P = Parallel Groove Clamps; N = NEMA Bracket

To order small eyebolt (No. 8 sol. through 2/0 str.) change "P" to "E" (example: PLBC-15-100 E).

To order with NEMA Bracket add the suffix "B" to the catalog number. (example: PLBC-15-100PB).

To order the Extended Type Bracket add the suffix "X" . (2-5/8" Longer than the "B" bracket.)

(Example: PLBC-15-100-PX).

Cat. numbers PLBC-15-100/16P and PLBC-15-200P requires an Arc Shortening Rod*.

Leakage Distance for 110 kV BIL = 12.6".

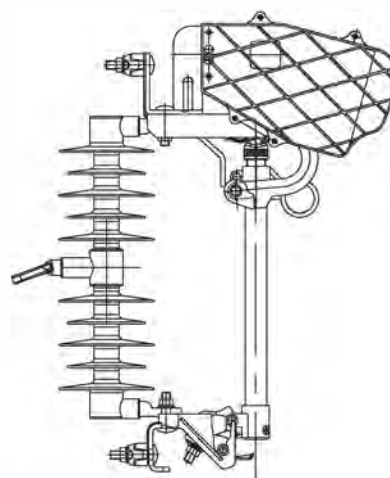


POLYMER LOADBREAK CUTOUTS 15/27 KV

The "PLBC" fuse cutout is designed for the most severe working conditions, where stress from interruption in short circuits is a relevant factor. Designed for outdoor use, the "PLBC" fuse cutout is equipped with husky steel parts to support high torsion forces in closing and opening with use of "Load Buster" tools. Designed with a fuse link guide which also acts as a fuse holder locking device (flipper) thus reducing the tension on the fuse link during the closing operations. Fast expulsion of the link after melting within the fuse tube, makes the "PLBC" fuse cutout very efficient in low short circuit currents. Approved in all of the tests specified by ABNT/IEC/ANSI standards, the "PLBC" fuse cutout is a proven product.

DESIGN FEATURES

- High mechanical strength insulator.
- Tin plated parallel connectors.
- Stainless steel spring.
- "Load Buster" hook.
- Silver plated contacts.
- Fuse tube and cutout cast components in bronze.
- Steel hardware and NEMA bracket are galvanized per ANSI/IEEE/ASTM standards.



15/27 kV (125KV BIL)

Catalog Number**	Maximum Design Voltage	Continuous Current (Amps)	Interrupting Capacity (Asym Amps)	BIL	ARC ROD*
PLBC-15/27-100P	15/27KV	100	8000	125 kV	NO
PLBC-15/27-100/12P	15/27KV	100	12000	125 kV	YES
PLBC-15/27-200P	15/27KV	200	10000	125 kV	YES
PLBC-15/27-300P	15/27KV	300	12000	125 kV	NO

ALL GPP Cutouts use standard interchangeable fuse barrels.

**Suffix: P = Parallel Groove Clamps; N = NEMA Bracket

To order small eyebolt (No. 8 sol. through 2/0 str.) change "P" to "E" . (example: PLBC-15/27-100 E).

To order with NEMA Bracket add the suffix "B" to the catalog number. (example: PLBC-15/27-100PB).

To order the Extended Type Bracket add the suffix "X" . (2-5/8" Longer than the "B" bracket.)
(Example: PLBC-15/27-100-PX).

Cat. Numbers PLBC-15/27-100/12P requires an Arc Shortening Rod*.

Leakage Distance for 125 kV BIL = 17.1".



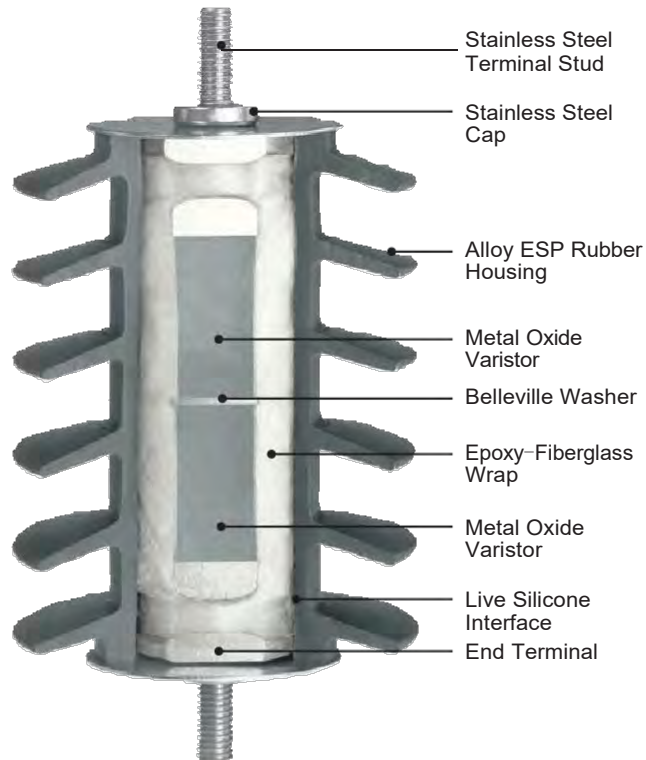
INDEX

SECTION 8 - SURGE ARRESTERS

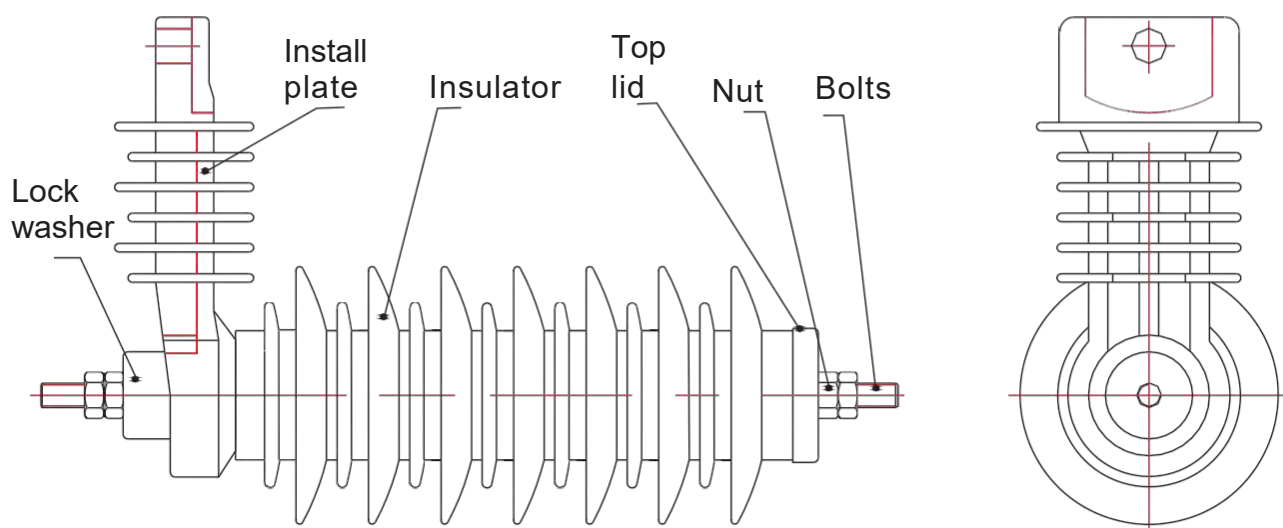
TYPICAL CUTAWAY ARRESTER-----	8-0
POLYMERIC HOUSED METAL-OXIDE SURGE ARRESTERS WITHOUT GAPS	
NORMINAL DISCHARGE CURRENT 5KA -----	8-1
POLYMERIC HOUSED METAL-OXIDE SURGE ARRESTERS WITHOUT GAPS	
NORMINAL DISCHARGE CURRENT 10KA-----	8-2
TYPICAL MOUNTING CONFIGURATIONS AND HARDWARE -----	8-3



Typical Cutaway (Arrester Only)



Diagram





Polymeric Housed Metal-oxide Surge Arresters Without Gaps Nominal Discharge Current 5KA



Electrical Characteristics

Catalog Number	MOA Rated voltage	MCOV	Current impulse Residual Voltage			2ms Rectangular current impulse withstand	4/10 us High current impulse withstand
			1/4 us Lightning current impulse	8/20 us Lightning current impulse	30/60 us Switching current impulse		
	kV(rms)	kV(rms)	kV(crest)	kV(crest)	kV(crest)	A(crest)	kA(crest)
YH5W-3	3	2.55	11.3	9	8.9	150	65
YH5W-6	6	5.1	22.6	18	16.8	150	65
YH5W-9	9	7.65	33.7	27	23.8	150	65
YH5W-10	10	8.4	36	30	23	150	65
YH5W-11	11	9.4	40	33	30	150	65
YH5W-12	12	10.2	42.2	36	27	150	65
YH5W-15	15	12.7	51	45	38.5	150	65
YH5W-18	18	15.3	61.5	54	46.2	150	65
YH5W-21	21	17	71.8	63	54.2	150	65
YH5W-24	24	19.5	82	72	62	150	65
YH5W-27	27	22	92	81	69.8	150	65
YH5W-30	30	24.4	102	90	79	150	65
YH5W-33	33	27.5	112	99	86.7	150	65
YH5W-36	36	29	123	108	92.4	150	65



Polymeric Housed Metal-oxide Surge Arresters Without Gaps Nominal Discharge Current 10KA



Electrical Characteristics

Catalog Number	MOA Rated voltage	MCOV	Current impulse Residual Voltage			2ms Rectangular current impulse withstand	4/10 us High current impulse withstand
			1/4 us Lightning current impulse	8/20 us Lightning current impulse	30/60 us Switching current impulse		
	kV(rms)	kV(rms)	kV(crest)	kV(crest)	kV(crest)	A(crest)	kA(crest)
YH10W-3	3	2.55	11.3	9	8.9	250	100
YH10W-6	6	5.1	22.6	18	16.8	250	100
YH10W-9	9	7.65	33.7	27	23.8	250	100
YH10W-10	10	8.4	36	30	23	250	100
YH10W-11	11	9.4	40	33	30	250	100
YH10W-12	12	10.2	42.2	36	27	250	100
YH10W-15	15	12.7	51	45	38.5	250	100
YH10W-18	18	15.3	61.5	54	46.2	250	100
YH10W-21	21	17	71.8	63	54.2	250	100
YH10W-24	24	19.5	82	72	62	250	100
YH10W-27	27	22	92	81	69.8	250	100
YH10W-30	30	24.4	102	90	79	250	100
YH10W-33	33	27.5	112	99	86.7	250	100
YH10W-36	36	29	123	108	92.4	250	100



TYPICAL MOUNTING CONFIGURATIONS AND HARDWARE

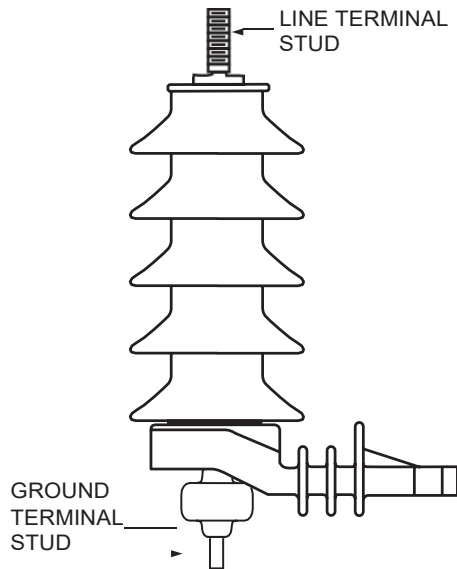


Figure 1

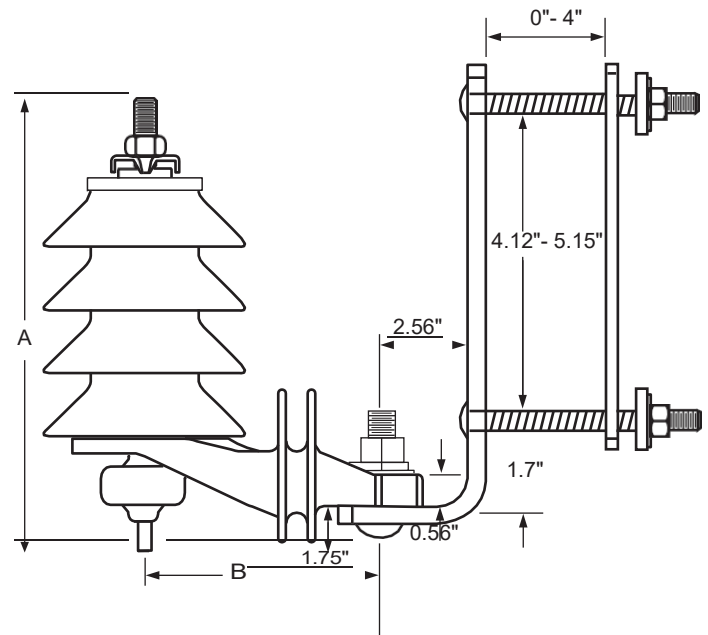


Figure 2

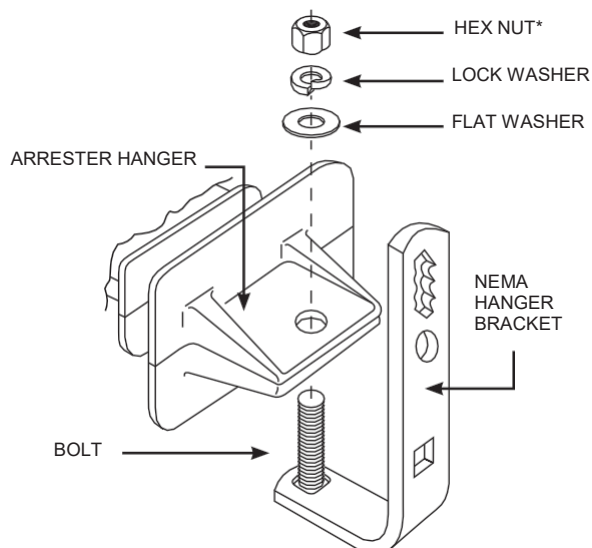


Figure 3

Standard Mounting Brackets

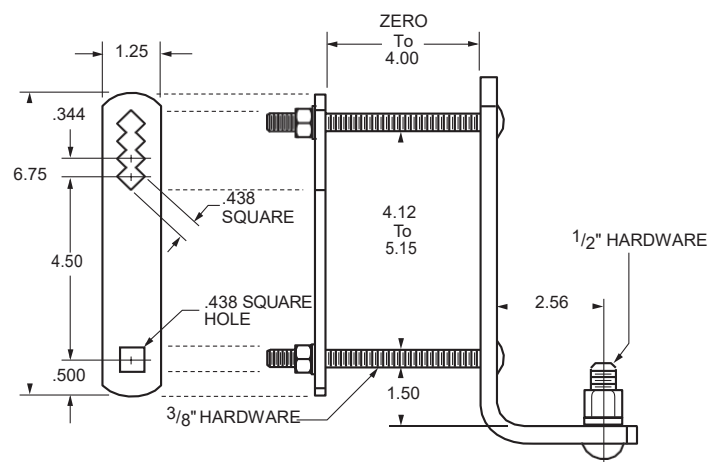


Figure 4



INDEX

SECTION 9 - FIBERGLASS GUY STRAIN INSULATORS

CATALOG NUMBER SYSTEM -----	9-0
FIBERGLASS GUY STRAIN INSULATORS 15,000 POUND RATING CLEVIS THIMBLE EYE -----	9-1
FIBERGLASS GUY STRAIN INSULATORS 21,000 POUND RATING CLEVIS THIMBLE EYE -----	9-2
FIBERGLASS GUY STRAIN INSULATORS 30,000 POUND RATING CLEVIS THIMBLE EYE -----	9-3
FIBERGLASS GUY STRAIN INSULATORS 15,000 POUND RATING CLEVIS THIMBLE -----	9-4
FIBERGLASS GUY STRAIN INSULATORS 21,000 POUND RATING CLEVIS THIMBLE -----	9-5
FIBERGLASS GUY STRAIN INSULATORS 30,000 POUND RATING CLEVIS THIMBLE -----	9-6
FIBERGLASS GUY STRAIN INSULATORS 15,000 POUND RATING CLEVIS CLEVIS ROLLER -----	9-7
FIBERGLASS GUY STRAIN INSULATORS 21,000 POUND RATING CLEVIS CLEVIS ROLLER -----	9-8
FIBERGLASS GUY STRAIN INSULATORS 30,000 POUND RATING CLEVIS CLEVIS ROLLER -----	9-9
FIBERGLASS GUY STRAIN INSULATORS 15,000 POUND RATING THIMBLE EYE THIMBLE EYE ---	9-10
FIBERGLASS GUY STRAIN INSULATORS 21,000 POUND RATING THIMBLE EYE THIMBLE EYE ---	9-11
FIBERGLASS GUY STRAIN INSULATORS 30,000 POUND RATING THIMBLE EYE THIMBLE EYE ---	9-12
FIBERGLASS GUY STRAIN INSULATORS 15,000 POUND RATING THIMBLE THIMBLE -----	9-13
FIBERGLASS GUY STRAIN INSULATORS 21,000 POUND RATING THIMBLE THIMBLE -----	9-14
FIBERGLASS GUY STRAIN INSULATORS 30,000 POUND RATING THIMBLE THIMBLE -----	9-15



Catalog Number System

Catalog Series	GL	15	-	12	-	C	-	T	End Fitting, 2nd
Fiberglass Guy Strain Insulators									C = Clevis
									CR = Clevis with Roller
									TE = Thimble Eye
									T = Thimble
									E = Eye
Minimum Ultimate Strength Rating (lbs.)									End Fitting, 1st
15 = 15,000									C = Clevis
21 = 21,000									CR = Clevis with Roller
30 = 30,000									TE = Thimble Eye
									T = Thimble
									E = Eye
Nominal Length									
12 = 12"									
18 = 18"									
24 = 24"									
36 = 36"									
42 = 42"									
54 = 54"									
60 = 60"									
78 = 78"									
96 = 96"									
120 = 120"									
144 = 144"									



Thimble



Clevis with Roller



Eye



Clevis



Thimble Eye



FIBERGLASS GUY STRAIN INSULATORS

**15,000 Pound Rating:
Clevis & Thimble Eye**



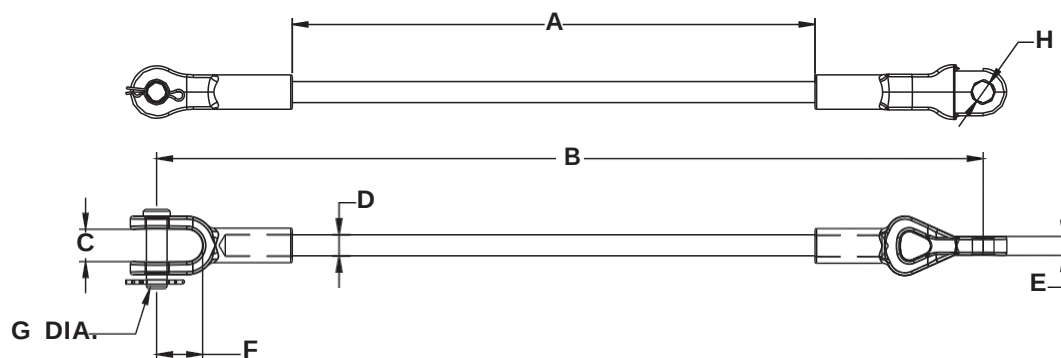
SPECIFICATIONS:

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)								STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E	F	G	H		
GL15-12C-TE	12	21.1	0.965	0.625	0.562	1.378	0.625	0.65	15,000	Clevis-Thimble Eye
GL15-18C-TE	18	27.1	0.965	0.625	0.562	1.378	0.625	0.65	15,000	Clevis-Thimble Eye
GL15-24C-TE	24	33.1	0.965	0.625	0.562	1.378	0.625	0.65	15,000	Clevis-Thimble Eye
GL15-36C-TE	36	45.1	0.965	0.625	0.562	1.378	0.625	0.65	15,000	Clevis-Thimble Eye
GL15-42C-TE	42	51.1	0.965	0.625	0.562	1.378	0.625	0.65	15,000	Clevis-Thimble Eye
GL15-54C-TE	54	63.1	0.965	0.625	0.562	1.378	0.625	0.65	15,000	Clevis-Thimble Eye
GL15-60C-TE	60	69.1	0.965	0.625	0.562	1.378	0.625	0.65	15,000	Clevis-Thimble Eye
GL15-78C-TE	78	87.1	0.965	0.625	0.562	1.378	0.625	0.65	15,000	Clevis-Thimble Eye
GL15-96C-TE	96	105.1	0.965	0.625	0.562	1.378	0.625	0.65	15,000	Clevis-Thimble Eye
GL15-120C-TE	120	129.1	0.965	0.625	0.562	1.378	0.625	0.65	15,000	Clevis-Thimble Eye
GL15-144C-TE	144	153.1	0.965	0.625	0.562	1.378	0.625	0.65	15,000	Clevis-Thimble Eye

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**21,000 Pound Rating:
Clevis & Thimble Eye**



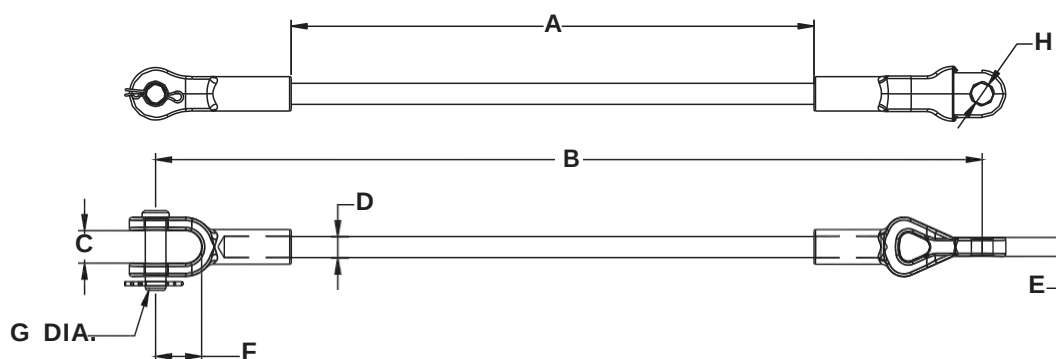
SPECIFICATIONS:

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)								STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E	F	G	H		
GL21-12C-TE	12	22.2	1.024	0.75	0.63	1.693	0.75	0.811	21,000	Clevis-Thimble Eye
GL21-18C-TE	18	28.2	1.024	0.75	0.63	1.693	0.75	0.811	21,000	Clevis-Thimble Eye
GL21-24C-TE	24	34.2	1.024	0.75	0.63	1.693	0.75	0.811	21,000	Clevis-Thimble Eye
GL21-36C-TE	36	46.2	1.024	0.75	0.63	1.693	0.75	0.811	21,000	Clevis-Thimble Eye
GL21-42C-TE	42	52.2	1.024	0.75	0.63	1.693	0.75	0.811	21,000	Clevis-Thimble Eye
GL21-54C-TE	54	64.2	1.024	0.75	0.63	1.693	0.75	0.811	21,000	Clevis-Thimble Eye
GL21-60C-TE	60	70.2	1.024	0.75	0.63	1.693	0.75	0.811	21,000	Clevis-Thimble Eye
GL21-78C-TE	78	88.2	1.024	0.75	0.63	1.693	0.75	0.811	21,000	Clevis-Thimble Eye
GL21-96C-TE	96	106.2	1.024	0.75	0.63	1.693	0.75	0.811	21,000	Clevis-Thimble Eye
GL21-120C-TE	120	130.2	1.024	0.75	0.63	1.693	0.75	0.811	21,000	Clevis-Thimble Eye
GL21-144C-TE	144	154.2	1.024	0.75	0.63	1.693	0.75	0.811	21,000	Clevis-Thimble Eye

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**30,000 Pound Rating:
Clevis & Thimble Eye**



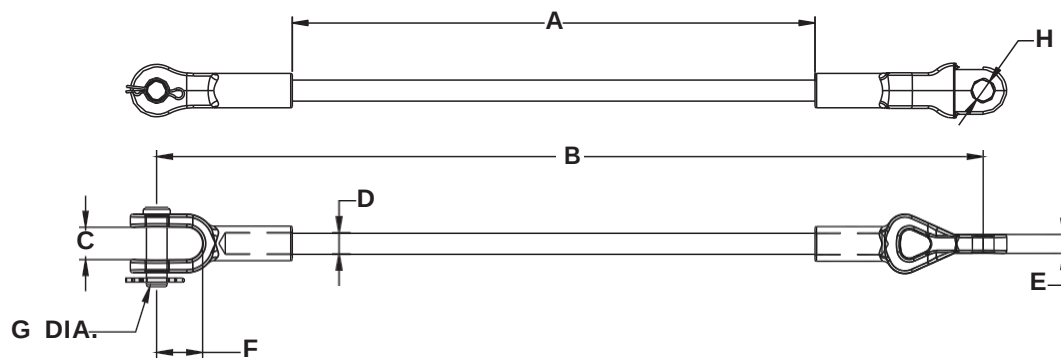
SPECIFICATIONS:

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)								STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E	F	G	H		
GL30-12C-TE	12	23.7	1.024	0.875	0.886	1.772	0.75	0.811	30,000	Clevis-Thimble Eye
GL30-18C-TE	18	29.7	1.024	0.875	0.886	1.772	0.75	0.811	30,000	Clevis-Thimble Eye
GL30-24C-TE	24	35.7	1.024	0.875	0.886	1.772	0.75	0.811	30,000	Clevis-Thimble Eye
GL30-36C-TE	36	47.7	1.024	0.875	0.886	1.772	0.75	0.811	30,000	Clevis-Thimble Eye
GL30-42C-TE	42	53.7	1.024	0.875	0.886	1.772	0.75	0.811	30,000	Clevis-Thimble Eye
GL30-54C-TE	54	65.7	1.024	0.875	0.886	1.772	0.75	0.811	30,000	Clevis-Thimble Eye
GL30-60C-TE	60	71.7	1.024	0.875	0.886	1.772	0.75	0.811	30,000	Clevis-Thimble Eye
GL30-78C-TE	78	89.7	1.024	0.875	0.886	1.772	0.75	0.811	30,000	Clevis-Thimble Eye
GL30-96C-TE	96	107.7	1.024	0.875	0.886	1.772	0.75	0.811	30,000	Clevis-Thimble Eye
GL30-120C-TE	120	131.7	1.024	0.875	0.886	1.772	0.75	0.811	30,000	Clevis-Thimble Eye
GL30-144C-TE	144	155.7	1.024	0.875	0.886	1.772	0.75	0.811	30,000	Clevis-Thimble Eye

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**15,000 Pound Rating:
Clevis & Thimble**



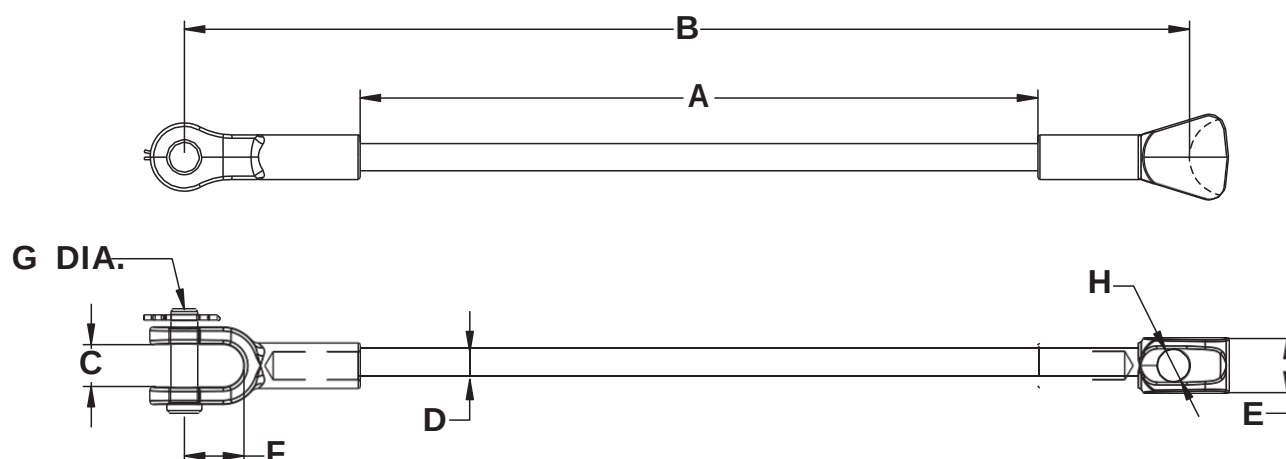
SPECIFICATIONS:

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)								STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E	F	G	H		
GL15-12C-T	12	20.1	0.965	0.625	1.25	1.378	0.625	0.75	15,000	Clevis-Thimble
GL15-18C-T	18	26.1	0.965	0.625	1.25	1.378	0.625	0.75	15,000	Clevis-Thimble
GL15-24C-T	24	32.1	0.965	0.625	1.25	1.378	0.625	0.75	15,000	Clevis-Thimble
GL15-36C-T	36	44.1	0.965	0.625	1.25	1.378	0.625	0.75	15,000	Clevis-Thimble
GL15-42C-T	42	50.1	0.965	0.625	1.25	1.378	0.625	0.75	15,000	Clevis-Thimble
GL15-54C-T	54	62.1	0.965	0.625	1.25	1.378	0.625	0.75	15,000	Clevis-Thimble
GL15-60C-T	60	68.1	0.965	0.625	1.25	1.378	0.625	0.75	15,000	Clevis-Thimble
GL15-78C-T	78	86.1	0.965	0.625	1.25	1.378	0.625	0.75	15,000	Clevis-Thimble
GL15-96C-T	96	104.1	0.965	0.625	1.25	1.378	0.625	0.75	15,000	Clevis-Thimble
GL15-120C-T	120	128.1	0.965	0.625	1.25	1.378	0.625	0.75	15,000	Clevis-Thimble
GL15-144C-T	144	152.1	0.965	0.625	1.25	1.378	0.625	0.75	15,000	Clevis-Thimble

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**21,000 Pound Rating:
Clevis & Thimble**

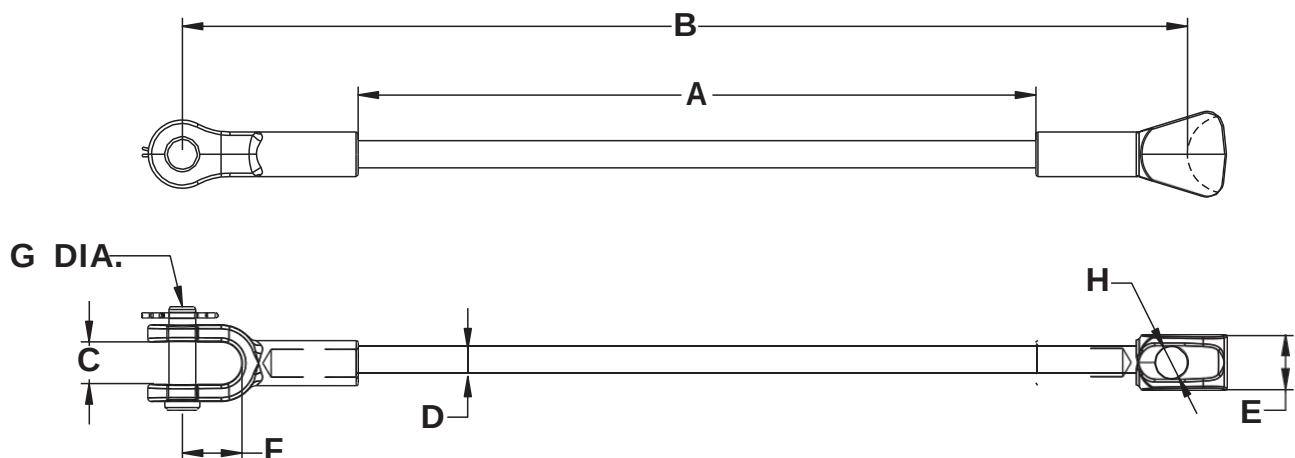
**SPECIFICATIONS:**

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)								STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E	F	G	H		
GL21-12C-T	12	20.3	1.024	0.75	1.443	1.693	0.75	0.89	21,000	Clevis-Thimble
GL21-18C-T	18	26.3	1.024	0.75	1.443	1.693	0.75	0.89	21,000	Clevis-Thimble
GL21-24C-T	24	32.3	1.024	0.75	1.443	1.693	0.75	0.89	21,000	Clevis-Thimble
GL21-36C-T	36	44.3	1.024	0.75	1.443	1.693	0.75	0.89	21,000	Clevis-Thimble
GL21-42C-T	42	50.3	1.024	0.75	1.443	1.693	0.75	0.89	21,000	Clevis-Thimble
GL21-54C-T	54	62.3	1.024	0.75	1.443	1.693	0.75	0.89	21,000	Clevis-Thimble
GL21-60C-T	60	68.3	1.024	0.75	1.443	1.693	0.75	0.89	21,000	Clevis-Thimble
GL21-78C-T	78	86.3	1.024	0.75	1.443	1.693	0.75	0.89	21,000	Clevis-Thimble
GL21-96C-T	96	104.3	1.024	0.75	1.443	1.693	0.75	0.89	21,000	Clevis-Thimble
GL21-120C-T	120	128.3	1.024	0.75	1.443	1.693	0.75	0.89	21,000	Clevis-Thimble
GL21-144C-T	144	152.3	1.024	0.75	1.443	1.693	0.75	0.89	21,000	Clevis-Thimble

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**30,000 Pound Rating:
Clevis & Thimble**



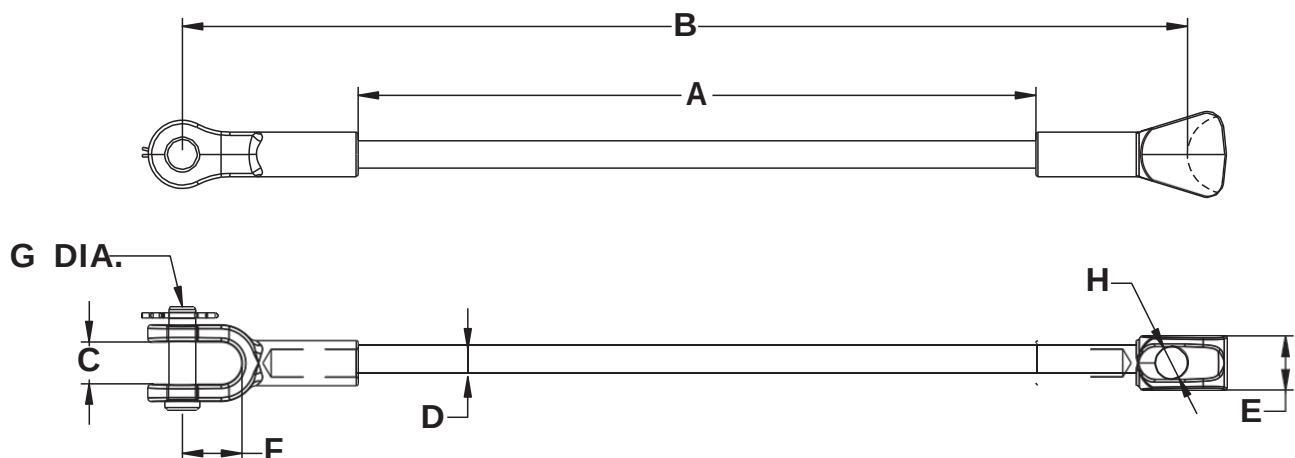
SPECIFICATIONS:

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)								STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E	F	G	H		
GL30-12C-T	12	21.7	1.024	0.875	1.5	1.772	0.75	0.89	30,000	Clevis-Thimble
GL30-18C-T	18	27.7	1.024	0.875	1.5	1.772	0.75	0.89	30,000	Clevis-Thimble
GL30-24C-T	24	33.7	1.024	0.875	1.5	1.772	0.75	0.89	30,000	Clevis-Thimble
GL30-36C-T	36	45.7	1.024	0.875	1.5	1.772	0.75	0.89	30,000	Clevis-Thimble
GL30-42C-T	42	51.7	1.024	0.875	1.5	1.772	0.75	0.89	30,000	Clevis-Thimble
GL30-54C-T	54	63.7	1.024	0.875	1.5	1.772	0.75	0.89	30,000	Clevis-Thimble
GL30-60C-T	60	69.7	1.024	0.875	1.5	1.772	0.75	0.89	30,000	Clevis-Thimble
GL30-78C-T	78	87.7	1.024	0.875	1.5	1.772	0.75	0.89	30,000	Clevis-Thimble
GL30-96C-T	96	105.7	1.024	0.875	1.5	1.772	0.75	0.89	30,000	Clevis-Thimble
GL30-120C-T	120	129.7	1.024	0.875	1.5	1.772	0.75	0.89	30,000	Clevis-Thimble
GL30-144C-T	144	153.7	1.024	0.875	1.5	1.772	0.75	0.89	30,000	Clevis-Thimble

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**15,000 Pound Rating:
Clevis & Clevis Roller**



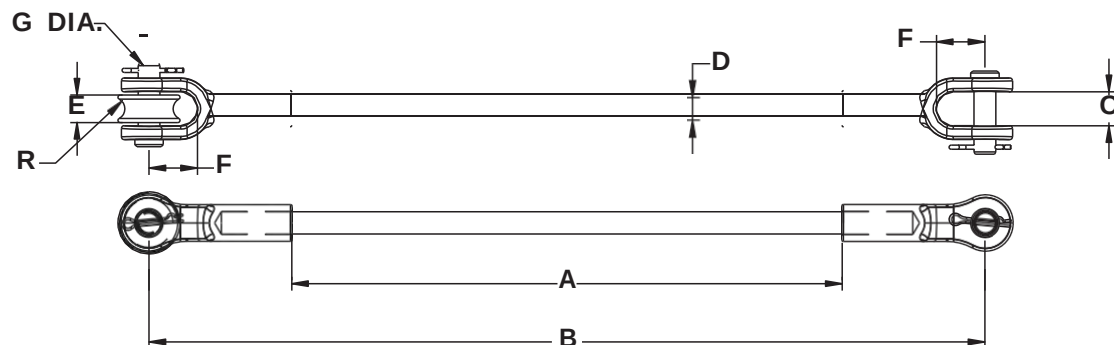
SPECIFICATIONS:

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)								STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E	F	G	R		
GL15-12C-CR	12	20.1	0.965	0.625	0.781	1.378	0.625	0.312	15,000	Clevis-Clevis Roller
GL15-18C-CR	18	26.1	0.965	0.625	0.781	1.378	0.625	0.312	15,000	Clevis-Clevis Roller
GL15-24C-CR	24	32.1	0.965	0.625	0.781	1.378	0.625	0.312	15,000	Clevis-Clevis Roller
GL15-36C-CR	36	44.1	0.965	0.625	0.781	1.378	0.625	0.312	15,000	Clevis-Clevis Roller
GL15-42C-CR	42	50.1	0.965	0.625	0.781	1.378	0.625	0.312	15,000	Clevis-Clevis Roller
GL15-54C-CR	54	62.1	0.965	0.625	0.781	1.378	0.625	0.312	15,000	Clevis-Clevis Roller
GL15-60C-CR	60	68.1	0.965	0.625	0.781	1.378	0.625	0.312	15,000	Clevis-Clevis Roller
GL15-78C-CR	78	86.1	0.965	0.625	0.781	1.378	0.625	0.312	15,000	Clevis-Clevis Roller
GL15-96C-CR	96	104.1	0.965	0.625	0.781	1.378	0.625	0.312	15,000	Clevis-Clevis Roller
GL15-120C-CR	120	128.1	0.965	0.625	0.781	1.378	0.625	0.312	15,000	Clevis-Clevis Roller
GL15-144C-CR	144	152.1	0.965	0.625	0.781	1.378	0.625	0.312	15,000	Clevis-Clevis Roller

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**21,000 Pound Rating:
Clevis & Clevis Roller**



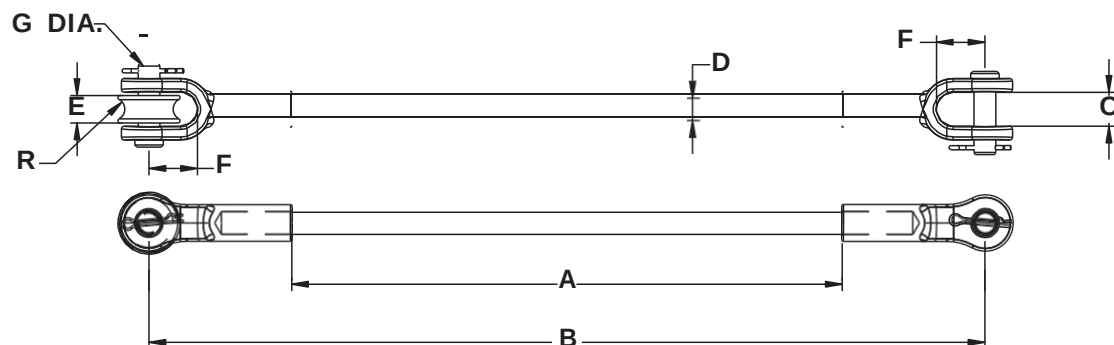
SPECIFICATIONS:

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)								STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E	F	G	R		
GL21-12C-CR	12	21	1.024	0.75	0.875	1.693	0.75	0.375	21,000	Clevis-Clevis Roller
GL21-18C-CR	18	27	1.024	0.75	0.875	1.693	0.75	0.375	21,000	Clevis-Clevis Roller
GL21-24C-CR	24	33	1.024	0.75	0.875	1.693	0.75	0.375	21,000	Clevis-Clevis Roller
GL21-36C-CR	36	45	1.024	0.75	0.875	1.693	0.75	0.375	21,000	Clevis-Clevis Roller
GL21-42C-CR	42	51	1.024	0.75	0.875	1.693	0.75	0.375	21,000	Clevis-Clevis Roller
GL21-54C-CR	54	63	1.024	0.75	0.875	1.693	0.75	0.375	21,000	Clevis-Clevis Roller
GL21-60C-CR	60	69	1.024	0.75	0.875	1.693	0.75	0.375	21,000	Clevis-Clevis Roller
GL21-78C-CR	78	87	1.024	0.75	0.875	1.693	0.75	0.375	21,000	Clevis-Clevis Roller
GL21-96C-CR	96	105	1.024	0.75	0.875	1.693	0.75	0.375	21,000	Clevis-Clevis Roller
GL21-120C-CR	120	129	1.024	0.75	0.875	1.693	0.75	0.375	21,000	Clevis-Clevis Roller
GL21-144C-CR	144	153	1.024	0.75	0.875	1.693	0.75	0.375	21,000	Clevis-Clevis Roller

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**30,000 Pound Rating:
Clevis & Clevis Roller**

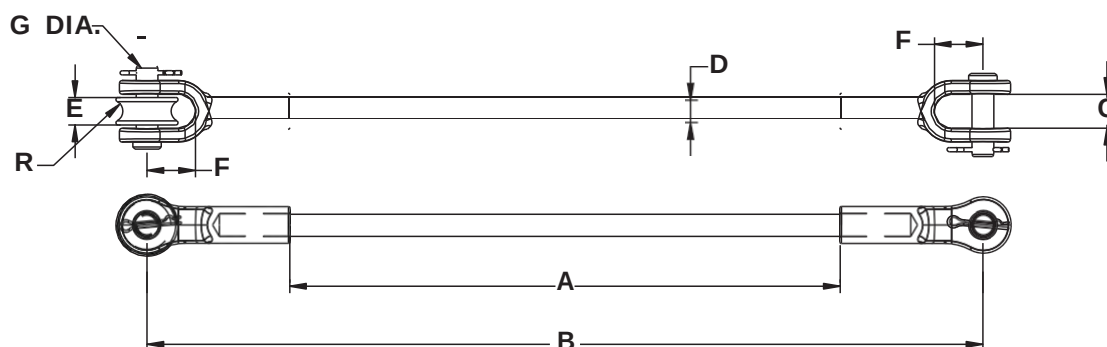
**SPECIFICATIONS:**

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)								STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E	F	G	R		
GL30-12C-CR	12	22.4	1.024	0.875	0.875	1.772	0.75	0.375	30,000	Clevis-Clevis Roller
GL30-18C-CR	18	28.4	1.024	0.875	0.875	1.772	0.75	0.375	30,000	Clevis-Clevis Roller
GL30-24C-CR	24	34.4	1.024	0.875	0.875	1.772	0.75	0.375	30,000	Clevis-Clevis Roller
GL30-36C-CR	36	46.4	1.024	0.875	0.875	1.772	0.75	0.375	30,000	Clevis-Clevis Roller
GL30-42C-CR	42	52.4	1.024	0.875	0.875	1.772	0.75	0.375	30,000	Clevis-Clevis Roller
GL30-54C-CR	54	64.4	1.024	0.875	0.875	1.772	0.75	0.375	30,000	Clevis-Clevis Roller
GL30-60C-CR	60	70.4	1.024	0.875	0.875	1.772	0.75	0.375	30,000	Clevis-Clevis Roller
GL30-78C-CR	78	88.4	1.024	0.875	0.875	1.772	0.75	0.375	30,000	Clevis-Clevis Roller
GL30-96C-CR	96	106.4	1.024	0.875	0.875	1.772	0.75	0.375	30,000	Clevis-Clevis Roller
GL30-120C-CR	120	130.4	1.024	0.875	0.875	1.772	0.75	0.375	30,000	Clevis-Clevis Roller
GL30-144C-CR	144	154.4	1.024	0.875	0.875	1.772	0.75	0.375	30,000	Clevis-Clevis Roller

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**15,000 Pound Rating:
Thimble Eye & Thimble Eye**



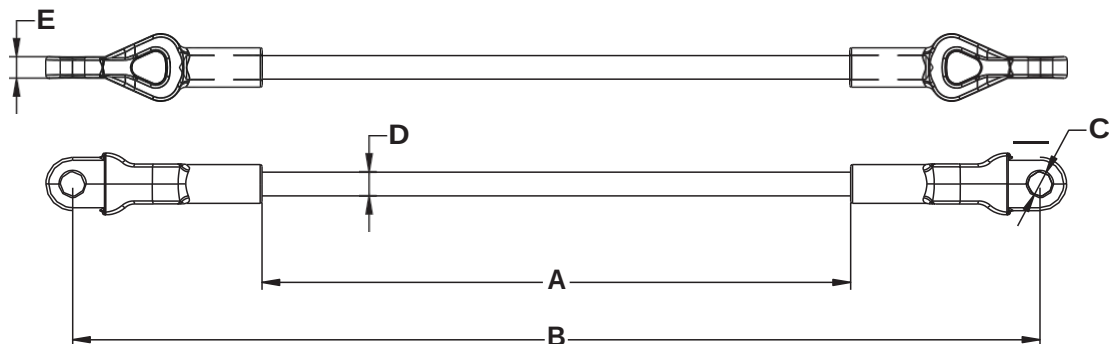
SPECIFICATIONS:

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)					STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E		
GL15-12TE-TE	12	22.1	0.65	0.625	0.563	15,000	Thimble Eye-Thimble Eye
GL15-18TE-TE	18	28.1	0.65	0.625	0.563	15,000	Thimble Eye-Thimble Eye
GL15-24TE-TE	24	34.1	0.65	0.625	0.563	15,000	Thimble Eye-Thimble Eye
GL15-36TE-TE	36	46.1	0.65	0.625	0.563	15,000	Thimble Eye-Thimble Eye
GL15-42TE-TE	42	52.1	0.65	0.625	0.563	15,000	Thimble Eye-Thimble Eye
GL15-54TE-TE	54	64.1	0.65	0.625	0.563	15,000	Thimble Eye-Thimble Eye
GL15-60TE-TE	60	70.1	0.65	0.625	0.563	15,000	Thimble Eye-Thimble Eye
GL15-78TE-TE	78	88.1	0.65	0.625	0.563	15,000	Thimble Eye-Thimble Eye
GL15-96TE-TE	96	106.1	0.65	0.625	0.563	15,000	Thimble Eye-Thimble Eye
GL15-120TE-TE	120	130.1	0.65	0.625	0.563	15,000	Thimble Eye-Thimble Eye
GL15-144TE-TE	144	154.1	0.65	0.625	0.563	15,000	Thimble Eye-Thimble Eye

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**21,000 Pound Rating:
Thimble Eye & Thimble Eye**

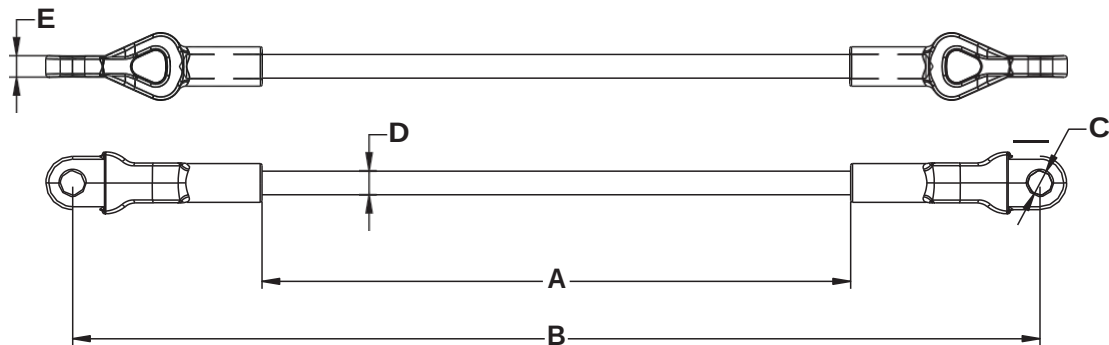
**SPECIFICATIONS:**

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)					STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E		
GL21-12TE-TE	12	23.4	0.811	0.75	0.63	21,000	Thimble Eye-Thimble Eye
GL21-18TE-TE	18	29.4	0.811	0.75	0.63	21,000	Thimble Eye-Thimble Eye
GL21-24TE-TE	24	35.4	0.811	0.75	0.63	21,000	Thimble Eye-Thimble Eye
GL21-36TE-TE	36	47.4	0.811	0.75	0.63	21,000	Thimble Eye-Thimble Eye
GL21-42TE-TE	42	53.4	0.811	0.75	0.63	21,000	Thimble Eye-Thimble Eye
GL21-54TE-TE	54	65.4	0.811	0.75	0.63	21,000	Thimble Eye-Thimble Eye
GL21-60TE-TE	60	71.4	0.811	0.75	0.63	21,000	Thimble Eye-Thimble Eye
GL21-78TE-TE	78	89.4	0.811	0.75	0.63	21,000	Thimble Eye-Thimble Eye
GL21-96TE-TE	96	107.4	0.811	0.75	0.63	21,000	Thimble Eye-Thimble Eye
GL21-120TE-TE	120	131.4	0.811	0.75	0.63	21,000	Thimble Eye-Thimble Eye
GL21-144TE-TE	144	155.4	0.811	0.75	0.63	21,000	Thimble Eye-Thimble Eye

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**30,000 Pound Rating:
Thimble Eye & Thimble Eye**



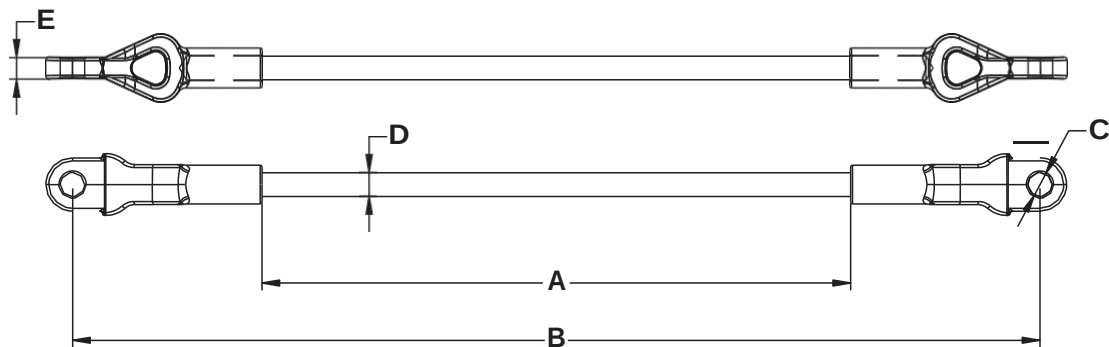
SPECIFICATIONS:

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)					STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E		
GL30-12TE-TE	12	25	0.811	0.875	0.886	30,000	Thimble Eye-Thimble Eye
GL30-18TE-TE	18	31	0.811	0.875	0.886	30,000	Thimble Eye-Thimble Eye
GL30-24TE-TE	24	37	0.811	0.875	0.886	30,000	Thimble Eye-Thimble Eye
GL30-36TE-TE	36	49	0.811	0.875	0.886	30,000	Thimble Eye-Thimble Eye
GL30-42TE-TE	42	55	0.811	0.875	0.886	30,000	Thimble Eye-Thimble Eye
GL30-54TE-TE	54	67	0.811	0.875	0.886	30,000	Thimble Eye-Thimble Eye
GL30-60TE-TE	60	73	0.811	0.875	0.886	30,000	Thimble Eye-Thimble Eye
GL30-78TE-TE	78	91	0.811	0.875	0.886	30,000	Thimble Eye-Thimble Eye
GL30-96TE-TE	96	109	0.811	0.875	0.886	30,000	Thimble Eye-Thimble Eye
GL30-120TE-TE	120	133	0.811	0.875	0.886	30,000	Thimble Eye-Thimble Eye
GL30-144TE-TE	144	157	0.811	0.875	0.886	30,000	Thimble Eye-Thimble Eye

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**15,000 Pound Rating:
Thimble & Thimble**



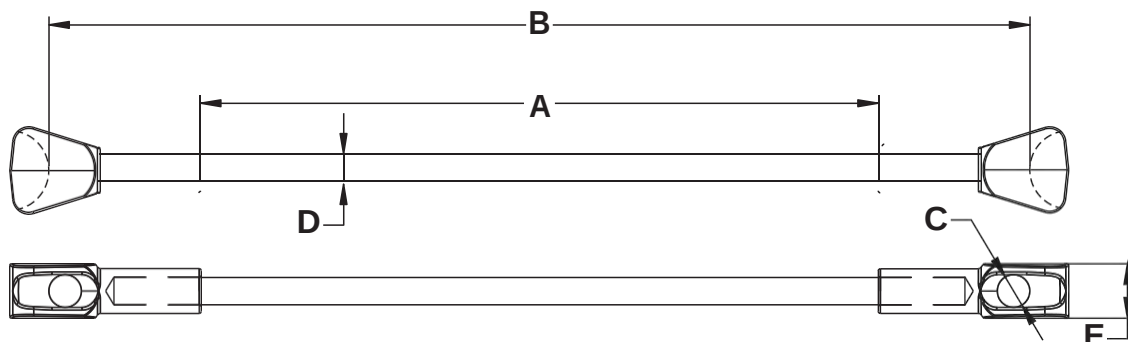
SPECIFICATIONS:

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)					STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E		
GL15-12T-T	12	18.9	0.75	0.625	1.25	15,000	Thimble-Thimble
GL15-18T-T	18	24.9	0.75	0.625	1.25	15,000	Thimble-Thimble
GL15-24T-T	24	30.9	0.75	0.625	1.25	15,000	Thimble-Thimble
GL15-36T-T	36	42.9	0.75	0.625	1.25	15,000	Thimble-Thimble
GL15-42T-T	42	48.9	0.75	0.625	1.25	15,000	Thimble-Thimble
GL15-54T-T	54	60.9	0.75	0.625	1.25	15,000	Thimble-Thimble
GL15-60T-T	60	66.9	0.75	0.625	1.25	15,000	Thimble-Thimble
GL15-78T-T	78	84.9	0.75	0.625	1.25	15,000	Thimble-Thimble
GL15-96T-T	96	102.9	0.75	0.625	1.25	15,000	Thimble-Thimble
GL15-120T-T	120	126.9	0.75	0.625	1.25	15,000	Thimble-Thimble
GL15-144T-T	144	150.9	0.75	0.625	1.25	15,000	Thimble-Thimble

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**21,000 Pound Rating:
Thimble & Thimble**

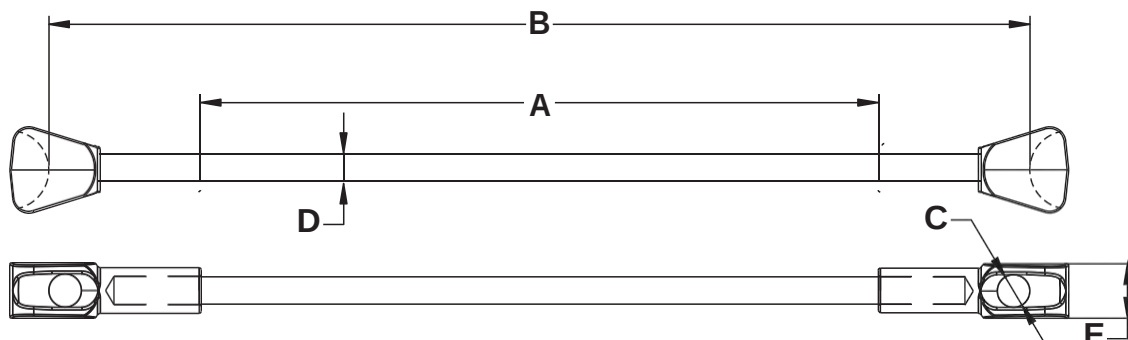
**SPECIFICATIONS:**

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)					STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E		
GL21-12T-T	12	19.6	0.89	0.75	1.443	21,000	Thimble-Thimble
GL21-18T-T	18	25.6	0.89	0.75	1.443	21,000	Thimble-Thimble
GL21-24T-T	24	31.6	0.89	0.75	1.443	21,000	Thimble-Thimble
GL21-36T-T	36	43.6	0.89	0.75	1.443	21,000	Thimble-Thimble
GL21-42T-T	42	49.6	0.89	0.75	1.443	21,000	Thimble-Thimble
GL21-54T-T	54	61.6	0.89	0.75	1.443	21,000	Thimble-Thimble
GL21-60T-T	60	67.6	0.89	0.75	1.443	21,000	Thimble-Thimble
GL21-78T-T	78	85.6	0.89	0.75	1.443	21,000	Thimble-Thimble
GL21-96T-T	96	103.6	0.89	0.75	1.443	21,000	Thimble-Thimble
GL21-120T-T	120	127.6	0.89	0.75	1.443	21,000	Thimble-Thimble
GL21-144T-T	144	151.6	0.89	0.75	1.443	21,000	Thimble-Thimble

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



FIBERGLASS GUY STRAIN INSULATORS

**30,000 Pound Rating:
Thimble & Thimble**



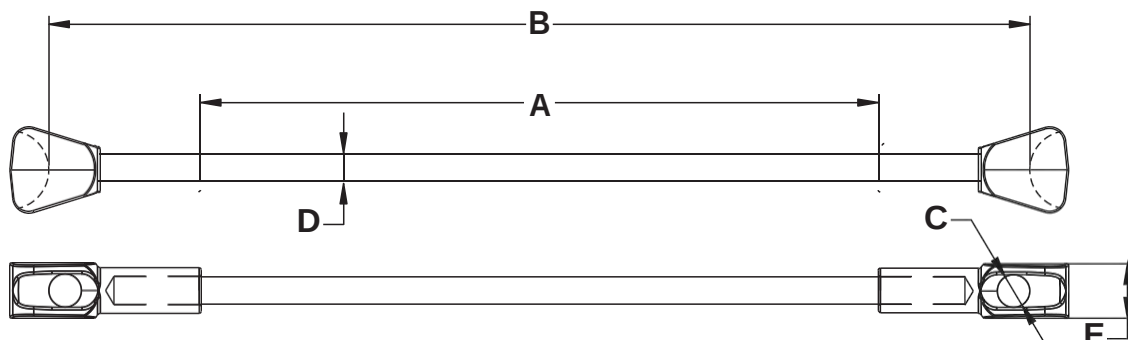
SPECIFICATIONS:

FITTINGS: DUCTILE IRON HOT DIP GALVANIZED ASTM-A-153

FIBERGLASS ROD: PROPRIETARY VEILED GRAY POLYESTER WITH ADDED ULTRAVIOLET PROTECTION

HARDWARE: STEEL HOT DIP GALVANIZED ASTM-A-153

COTTER PIN: STAINLESS STEEL



CATALOG NUMBER	DIMENSION(INCHES)					STRENGTH (Lbs.)	FITTINGS
	A	B	C	D	E		
GL30-12T-T	12	21	0.89	0.875	1.5	30,000	Thimble-Thimble
GL30-18T-T	18	27	0.89	0.875	1.5	30,000	Thimble-Thimble
GL30-24T-T	24	33	0.89	0.875	1.5	30,000	Thimble-Thimble
GL30-36T-T	36	45	0.89	0.875	1.5	30,000	Thimble-Thimble
GL30-42T-T	42	51	0.89	0.875	1.5	30,000	Thimble-Thimble
GL30-54T-T	54	63	0.89	0.875	1.5	30,000	Thimble-Thimble
GL30-60T-T	60	69	0.89	0.875	1.5	30,000	Thimble-Thimble
GL30-78T-T	78	87	0.89	0.875	1.5	30,000	Thimble-Thimble
GL30-96T-T	96	105	0.89	0.875	1.5	30,000	Thimble-Thimble
GL30-120T-T	120	129	0.89	0.875	1.5	30,000	Thimble-Thimble
GL30-144T-T	144	153	0.89	0.875	1.5	30,000	Thimble-Thimble

To add Roller to Clevis, use suffix "CR" (For example GL21-12CR-TE)



INDEX

SECTION 10 – FIBERGLASS PRODUCTS

SINGLE PHASE JUMPER BRACKETS STRAIGHT PIN	10-1
SINGLE PHASE JUMPER BRACKETS VERTICAL PIN.....	10-2
CROSSARM JUMPER PINS	10-3
POLE TOP PINS	10-4
POLE TOP PINS - LINE POST INSULATORS.....	10-5
SINGLE PHASE / POSITION APPARATUS BRACKETS	10-6
SINGLE PHASE / POSITION CUTOUT / ARRESTER BRACKETS 15° UPSWEEP	10-7
SINGLE PHASE / POSITION CUTOUT / ARRESTER BRACKETS HORIZONTAL.....	10-8
SINGLE PHASE 2 POSITION CUTOUT / ARRESTER BRACKETS 15° UPSWEEP	10-9
SINGLE PHASE 2 POSITION CUTOUT / ARRESTER BRACKETS HORIZONTAL.....	10-10
SINGLE PHASE 3 POSITION CUTOUT / ARRESTER BRACKETS 15° UPSWEEP	10-11
SINGLE PHASE POST INSULATORS BRACKETS 15° UPSWEEP.....	10-12
SINGLE PHASE POST INSULATORS BRACKETS HORIZONTAL	10-13
SINGLE PHASE STANDOFF BRACKETS STRAIGHT PIN	10-14
SINGLE PHASE STANDOFF BRACKETS VERTICAL PIN.....	10-15
TWO PHASE SINGLE POSITION CUTOUT / ARRESTER BRACKETS.....	10-16
TWO PHASE SINGLE POSITION APPARATUS BRACKETS	10-17
TWO PHASE SINGLE POSITION CUTOUT / ARRESTER BRACKETS.....	10-18
TWO PHASE SINGLE POSITION CUTOUT / ARRESTER BRACKETS.....	10-19
TWO PHASE BRACKETS FOR LINE POST INSULATORS.....	10-20
TWO PHASE INSULATORS BRACKETS STRAIGHT PIN	10-21



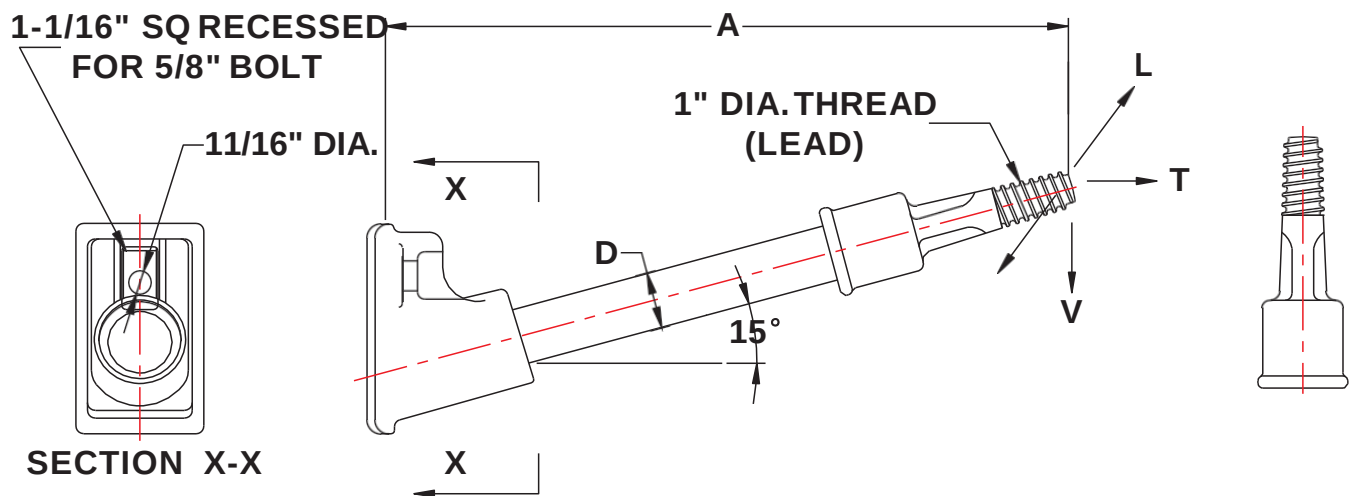
INDEX

SECTION 10 – FIBERGLASS PRODUCTS

TWO PHASE INSULATORS BRACKETS VERTICAL PIN-----	10-22
THREE PHASE SINGLE POSITION CUTOUT / ARRESTER BRACKETS -----	10-23
THREE PHASE 2 POSITION CUTOUT / ARRESTER BRACKETS -----	10-24
THREE PHASE 2 POSITION CUTOUT / ARRESTER BRACKETS -----	10-25
THREE PHASE 2 POSITION CUTOUT / ARRESTER BRACKETS -----	10-26
THREE PHASE 3 POSITION CUTOUT / ARRESTER BRACKETS -----	10-27
DOUBLE PHASE VERTICAL PIN ALLEY ARMS -----	10-28
DEADEND CROSSARMS-----	10-29



SINGLE PHASE JUMPER BRACKETS STRAIGHT PIN



CATALOG NUMBER	DIM IN INCHES		MINIMUM RATING(LBS)		
	A	D	VERT.-V	LONG.-L	TRANS.-T
SPHJ-1.5-12	12	1 1/2	1000	800	1500
SPHJ-1.5-14	14	1 1/2	900	700	1500
SPHJ-1.5-16	16	1 1/2	800	600	1500
SPHJ-1.5-18	18	1 1/2	700	500	1500

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

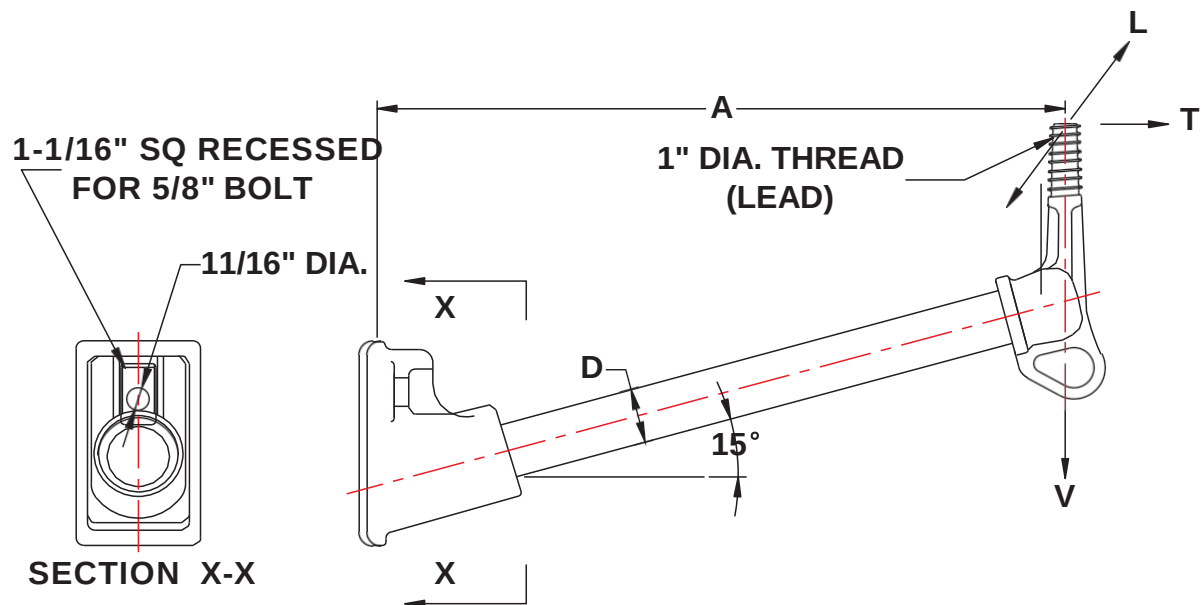
(EXAMPLE: FOR 19" LENGTH: SPHJ-1.5-19)

THREADS:FOR 1-3/8" THREADS,ADD SUFFIX "1.375" TO CATALOG NUMBER.

(EXAMPLE:SPHJ-1.5-19-1.375)



SINGLE PHASE JUMPER BRACKETS VERTICAL PIN



CATALOG NUMBER	DIM IN INCHES		MINIMUM RATING(LBS)		
	A	D	VERT.-V	LONG.-L	TRANS.-T
SPVJ-1.5-12	12	1 1/2	1000	800	1500
SPVJ-1.5-13	13	1 1/2	900	700	1500
SPVJ-1.5-15	15	1 1/2	800	600	1500
SPVJ-1.5-18	18	1 1/2	700	500	1500

NOTES:

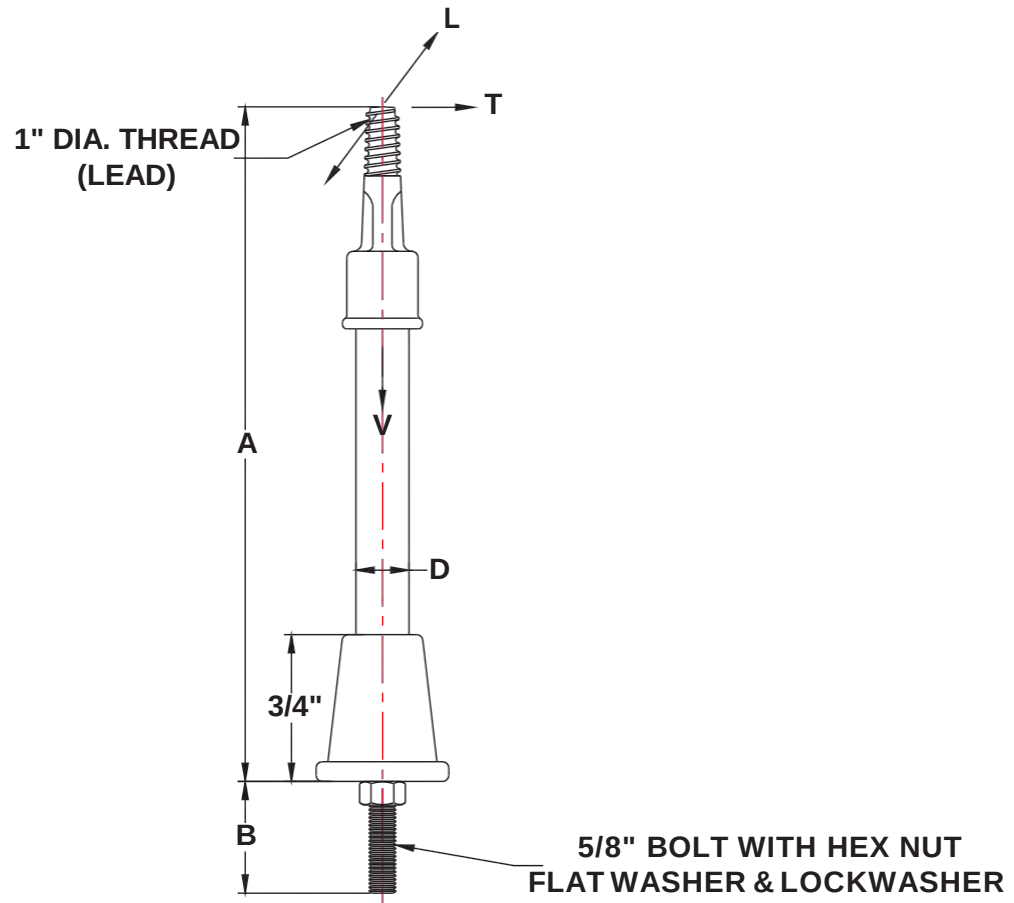
ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.
(EXAMPLE: FOR 19" LENGTH: SPVJ-1.5-19)THREADS:FOR 1-3/8" THREADS,ADD SUFFIX "1.375" TO CATALOG NUMBER.
(EXAMPLE:SPVJ-1.5-19-1.375)



JUMPER PINS



CATALOG NUMBER	DIM IN INCHES			MINIMUM RATING(LBS)		
	A	B	D	VERT.-V	LONG-L	TRANS.-T
GJP-1.5-13-2	13	2	1 1/2	2500	1200	1200
GJP-1.5-13-7	13	7	1 1/2	2500	1200	1200
GJP-1.5-18-2	18	2	1 1/2	2500	1000	1000
GJP-1.5-18-7	18	7	1 1/2	2500	1000	1000

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

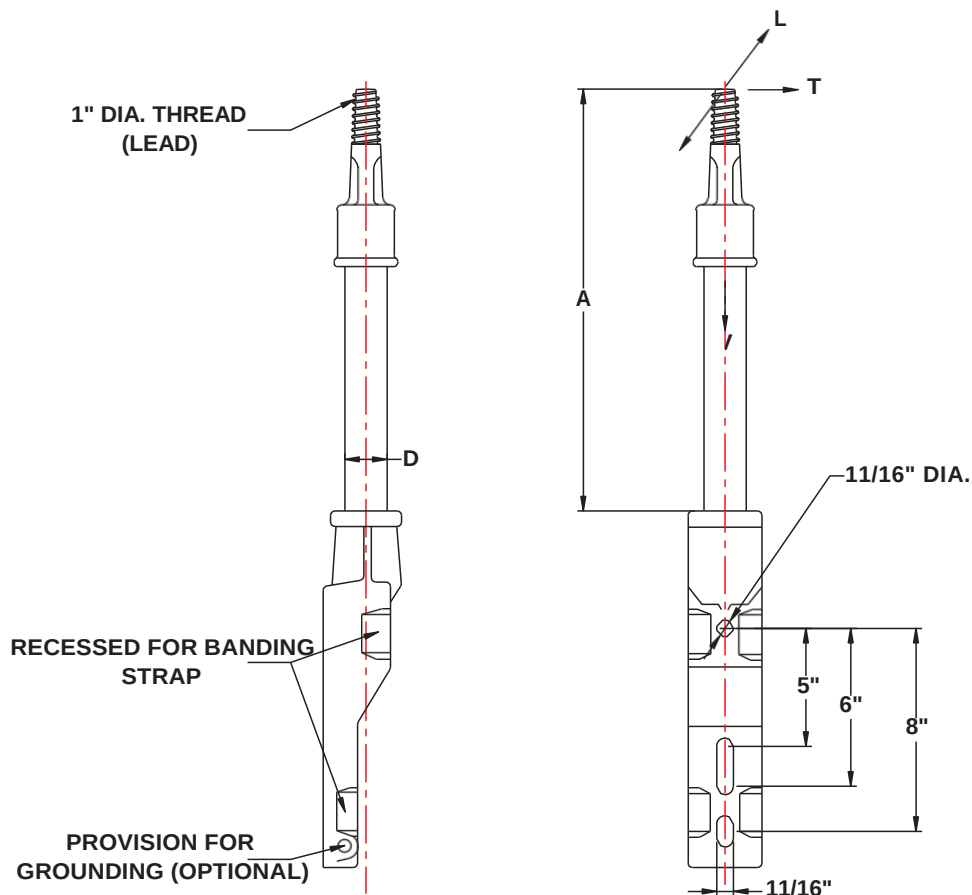
LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: FOR 19" LENGTH: GJP-1.5-19-7)

THREADS:FOR 1-3/8" THREADS,ADD SUFFIX "1.375" TO CATALOG NUMBER.(EXAMPLE:GJP-1.5-19-7-1.375)



POLE TOP PINS



CATALOG NUMBER	DIM IN INCHES		MINIMUM RATING(LBS)		
	A	D	VERT.-V	LONG.-L	TRANS.-T
PTP -1.5 -13	13	1 1/2	2500	1600	1600
PTP -1.5 -15	15	1 1/2	2500	1500	1500
PTP -1.5 -18	18	1 1/2	2500	1400	1400
PTP - 2 -18	18	2	2500	2150	2150
PTP - 2 -24	24	2	2500	1750	1750
PTP - 2 -30	30	2	2500	1300	1300
PTP - 2 -36	36	2	2500	1100	1100

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

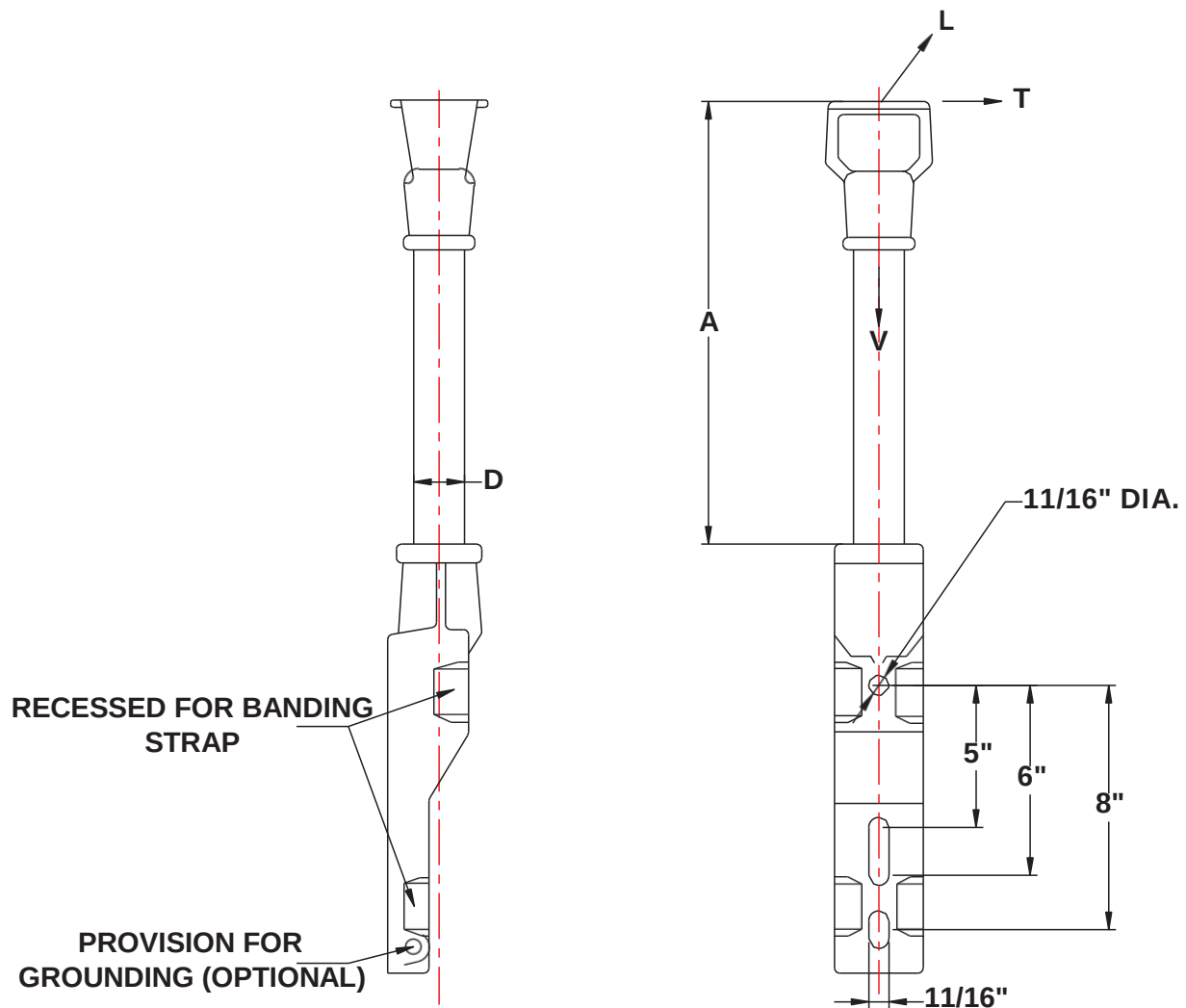
(EXAMPLE: FOR 25" LENGTH: PTP-2-25)

THREADS:FOR 1-3/8" THREADS,ADD SUFFIX "1.375" TO CATALOG NUMBER.(EXAMPLE:PTP-2-25-1.375)

GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO CATALOG NUMBER.(EXAMPLE: PTP-2-25-4-13)



POLE TOP PINS FOR LINE POST INSULATORS



CATALOG NUMBER	DIM IN INCHES		MINIMUM RATING(LBS)		
	A	D	VERT.-V	LONG.-L	TRANS.-T
GPTB-2-19	19	2	2500	2100	2100
GPTB-2-24	24	2	2500	1750	1750
GPTB-2-27	27	2	2500	1400	1400

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

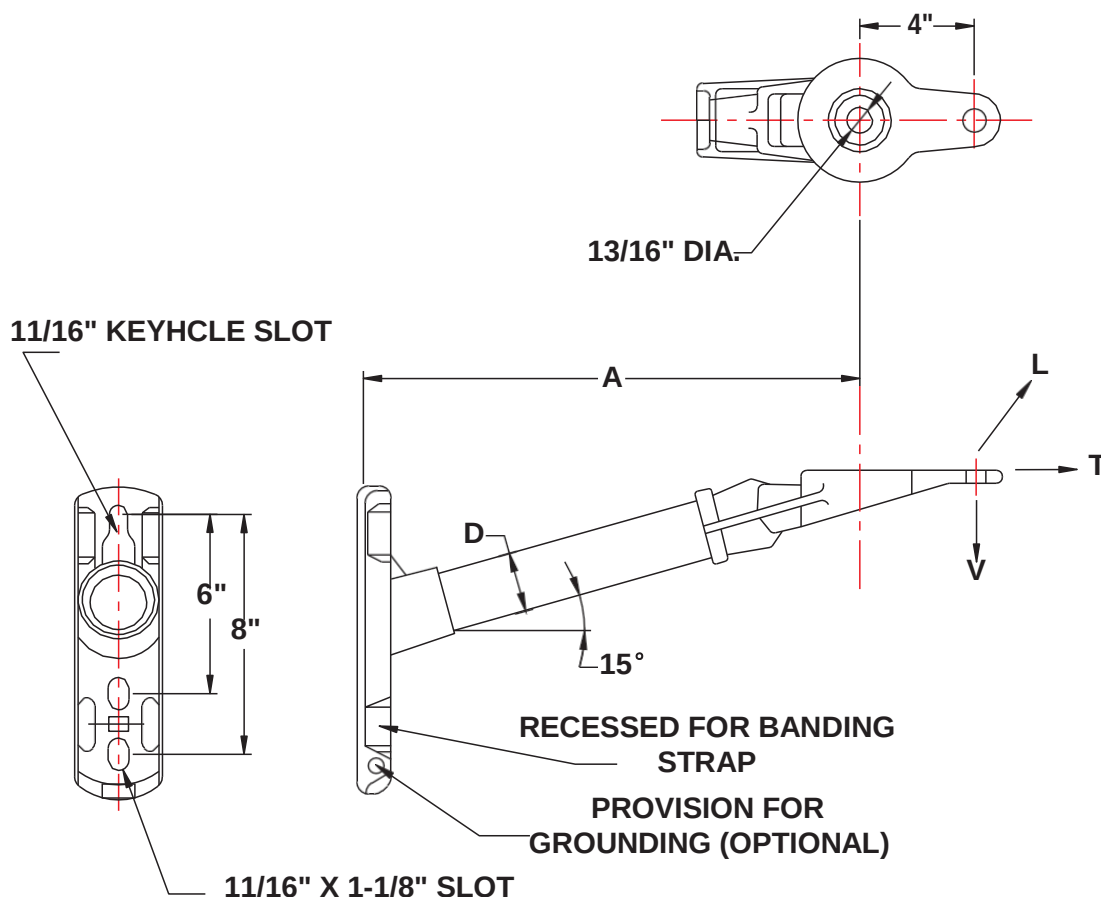
LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: FOR 30" LENGTH: GPTB-2-30)

GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO CATALOG NUMBER.(EXAMPLE: GPTB-2-30-4-13)



SINGLE PHASE SINGLE POSITION APPARATUS BRACKETS



CATALOG NUMBER	DIM IN INCHES		MINIMUM RATING (LBS)		
	A	D	VERT.-V	LONG.-L	TRANS.-T
SPAB-1.5 -18	18	1.5	1200	900	10000
SPAB-1.5 -21	21	1.5	1050	800	10000
SPAB-1.5 -24	24	1.5	900	700	10000

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: FOR 20" LENGTH: SPAB-1.5-20)

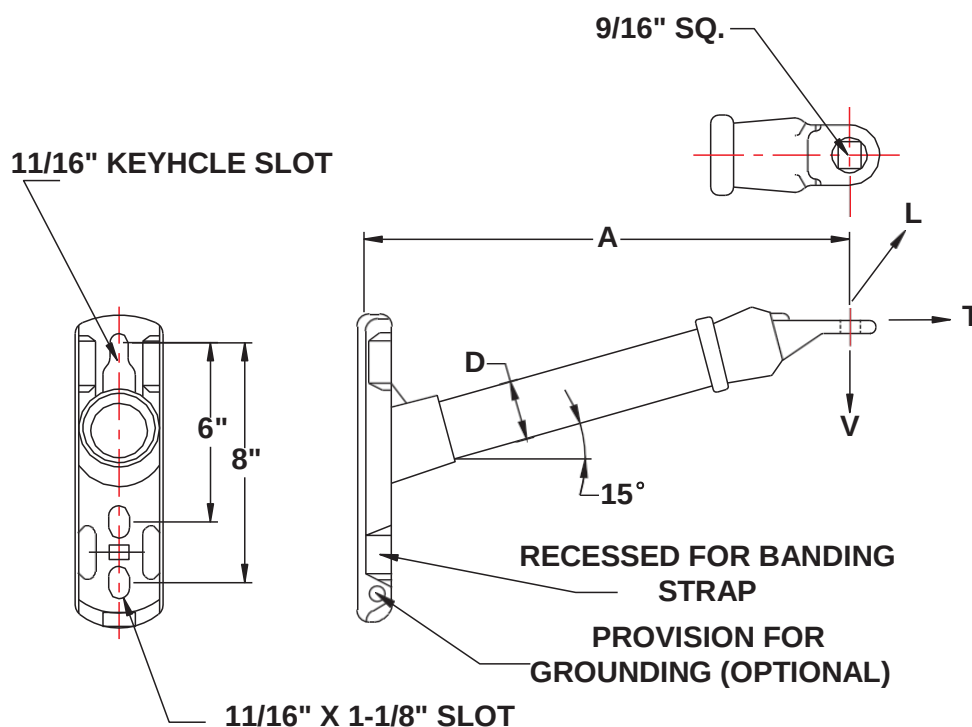
GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO

CATALOG NUMBER.(EXAMPLE: SPAB-1.5-20-4-13)

TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER.(EXAMPLE: SPAB-1.5-20-C)



SINGLE PHASE SINGLE POSITION CUTOUT AND ARRESTER BRACKETS 15° UPSWEEP



CATALOG NUMBER	DIM IN INCHES		MIN. RATING (LBS)		
	A	D	VERT.-V	LONG.-L	TRANS.-T
SPCA1-1.5 -12	12	1 1/2	1800	1400	10000
SPCA1-1.5 -15	15	1 1/2	1500	1200	10000
SPCA1-1.5 -18	18	1 1/2	1200	900	10000
SPCA1-1.5 -24	24	1 1/2	900	700	10000

NOTES:

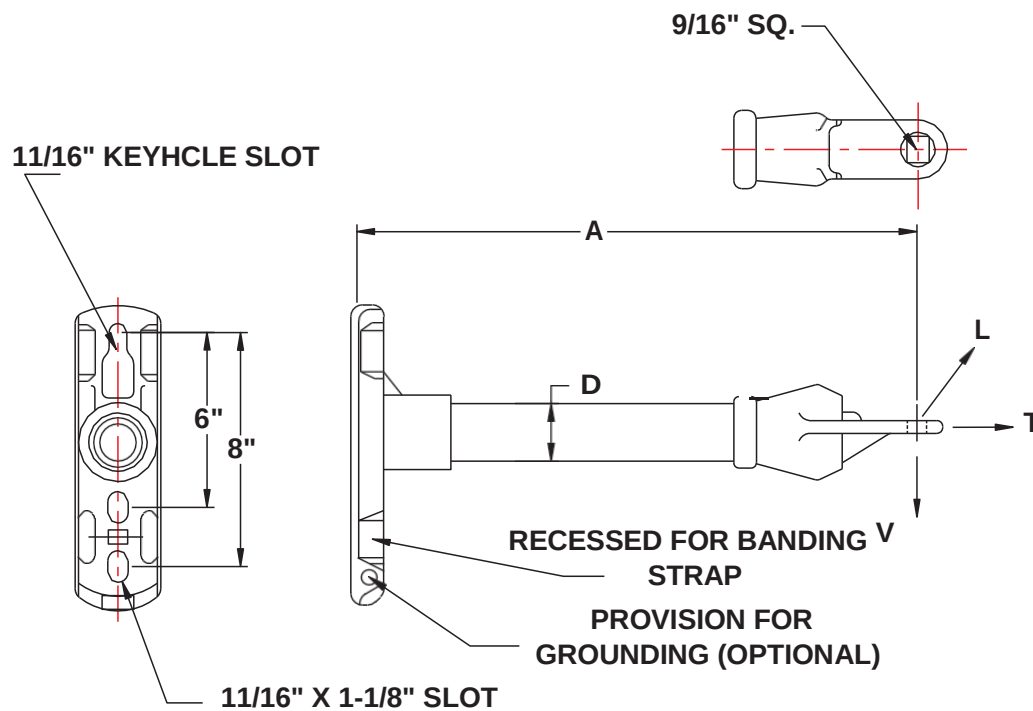
ROD: FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING: DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS: FOR OTHER LENGTHS (A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.
(EXAMPLE: FOR 21" LENGTH: SPCA1-1.5-21)GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING, ADD SUFFIX "4-13". TO
CATALOG NUMBER. (EXAMPLE: SPCA1-1.5-21-4-13)TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER.
(EXAMPLE: SPCA1-1.5-21-C)



SINGLE PHASE SINGLE POSITION CUTOUT AND ARRESTER BRACKETS HORIZONTAL



CATALOG NUMBER	DIM IN INCHES		MIN. RATING (LBS)		
	A	D	VERT.-V	LONG.-L	TRANS.-T
SPCA-1.5 -12	12	1 1/2	1800	1500	5000
SPCA-1.5 -15	15	1 1/2	1500	1400	5000
SPCA-1.5 -18	18	1 1/2	1200	1200	5000
SPCA-1.5 -24	24	1 1/2	900	900	5000

NOTES:

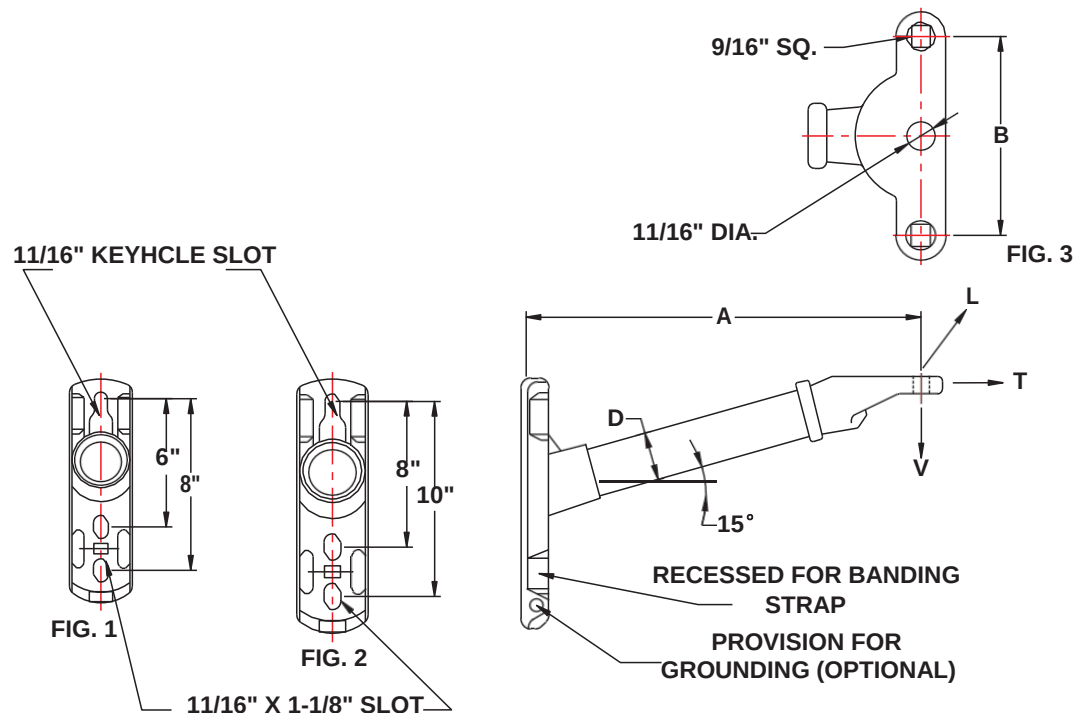
ROD: FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING: DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS: FOR OTHER LENGTHS (A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.
(EXAMPLE: FOR 21" LENGTH: SPCA-1.5-21)GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING, ADD SUFFIX "4-13". TO
CATALOG NUMBER. (EXAMPLE: SPCA-1.5-21-4-13)TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER.
(EXAMPLE: SPCA-1.5-21-C)



SINGLE PHASE TWO POSITION CUTOUT AND ARRESTER BRACKETS 15° UPSWEEP



CATALOG NUMBER	BASE	END FITTING	DIM IN INCHES			MIN.RATING(LBS)
	FIG.	FIG.	A	D	B	VERT.-V
SPCA2-1.5-12	1	3	12	1 1/2	12	1800
SPCA2-1.5-14	1	3	14	1 1/2	12	1600
SPCA2-1.5-15	1	3	15	1 1/2	12	1500
SPCA2-1.5-18	1	3	18	1 1/2	12	1200
SPCA2-1.5-24	1	3	24	1 1/2	12	900
SPCA2 -2-16	2	3	16	2	12	2600
SPCA2 -2-18	2	3	18	2	12	2400
SPCA2 -2-20	2	3	20	2	12	2500
SPCA2 -2-24	2	3	24	2	12	2200

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: FOR 19" LENGTH: SPCA2-2-19)

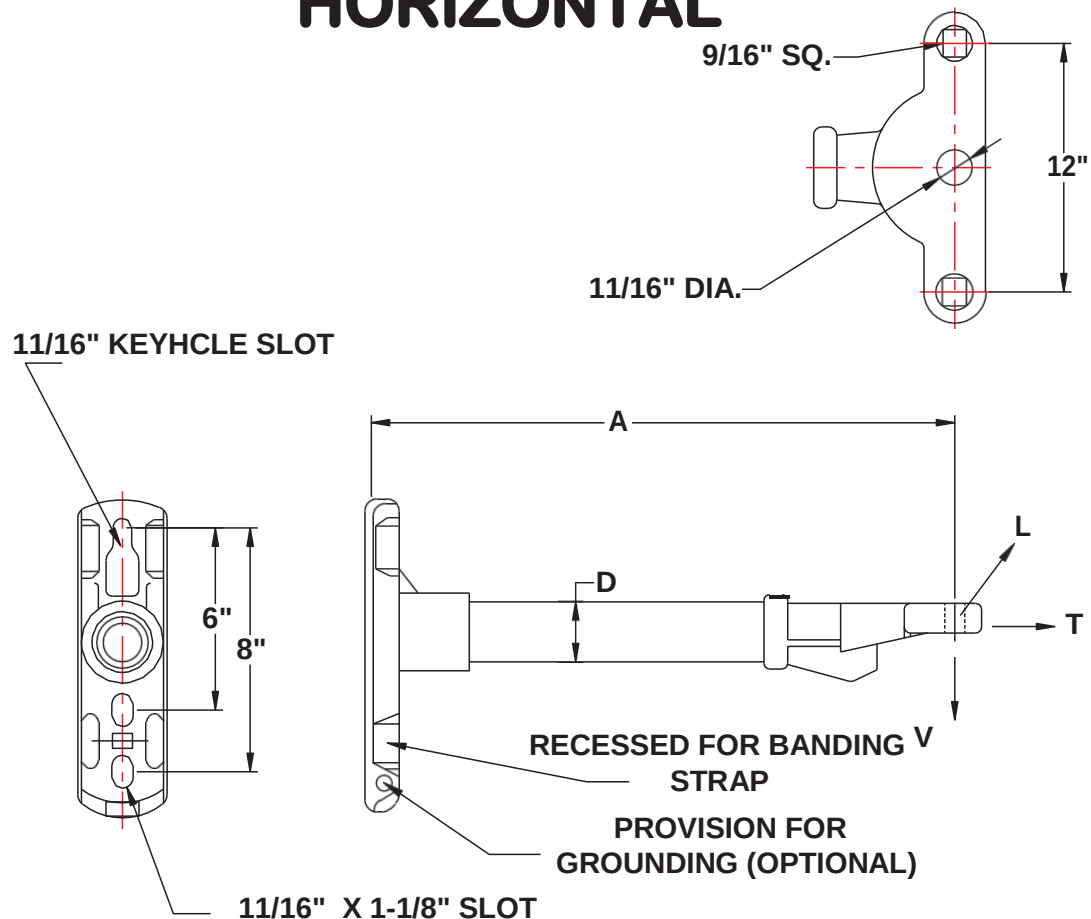
GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO CATALOG NUMBER.(EXAMPLE: SPCA2-2-19-4-13)

TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER.

(EXAMPLE: SPCA2-2-19-C)



SINGLE PHASE TWO POSITION BRACKETS HORIZONTAL



CATALOG NUMBER	DIM IN INCHES		MIN.RATING(LBS)
	A	D	VERT.-V
SPOCA2-1.5 -12	12	1 1/2	1800
SPOCA2-1.5 -14	14	1 1/2	1600
SPOCA2-1.5 -15	15	1 1/2	1500
SPOCA2-1.5 -18	18	1 1/2	1200
SPOCA2-1.5 -24	24	1 1/2	900

NOTES:

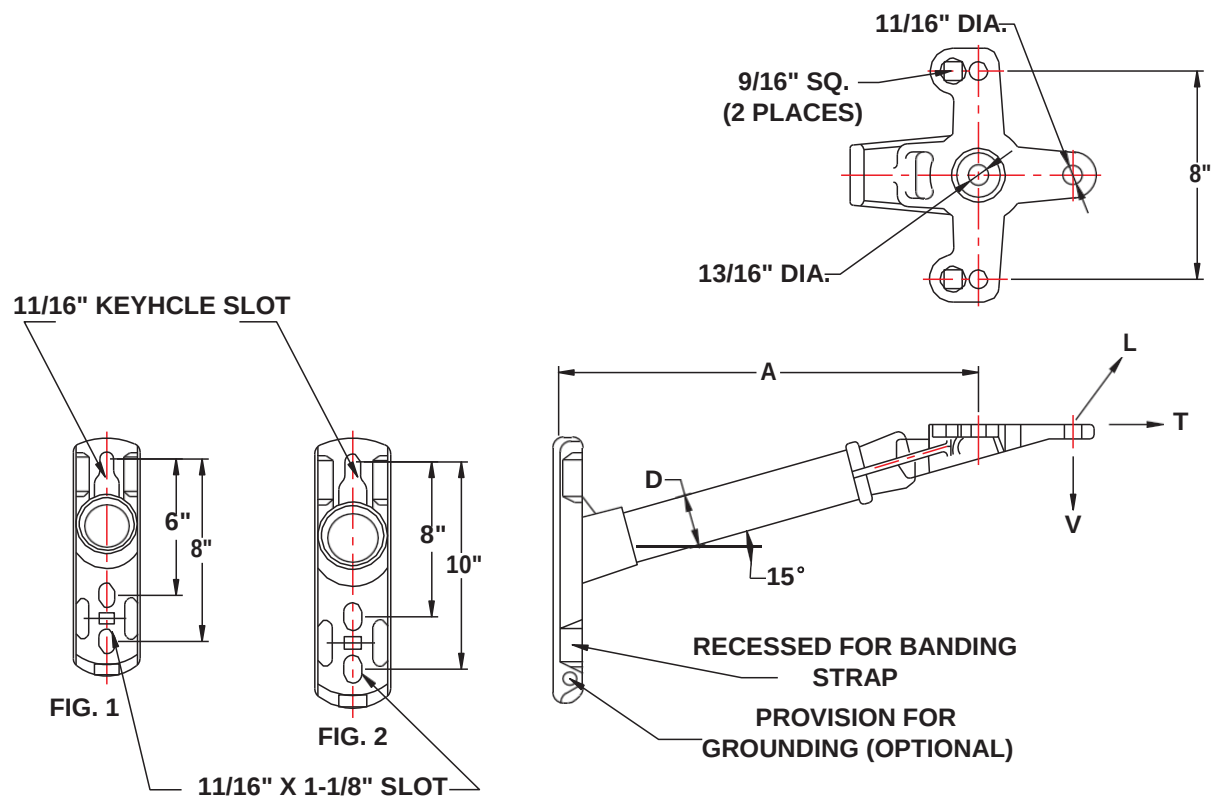
ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.
(EXAMPLE: FOR 19" LENGTH: SP0CA2-2-19)GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO
CATALOG NUMBER.(EXAMPLE: SP0CA2-2-19-4-13)TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER.(EXAMPLE:
SP0CA2-2-19-C)



SINGLE PHASE THREE POSITION CUTOUT AND ARRESTER BRACKETS 15° UPSWEEP



CATALOG NUMBER	BASE	DIM IN INCHES		MIN. RATING(LBS)		
	FIG.	A	D	VERT.-V	LONG.-L	TRANS.-T
SPCC-1.5-12	1	12	1 1/2	1800	1400	10000
SPCC-1.5-18	1	18	1 1/2	1200	900	10000
SPCC-1.5-24	1	24	1 1/2	900	700	10000
SPCC-2-12	2	12	2	3000	1800	10000
SPCC-2-18	2	18	2	2250	1500	10000
SPCC-2-24	2	24	2	1750	1100	10000

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

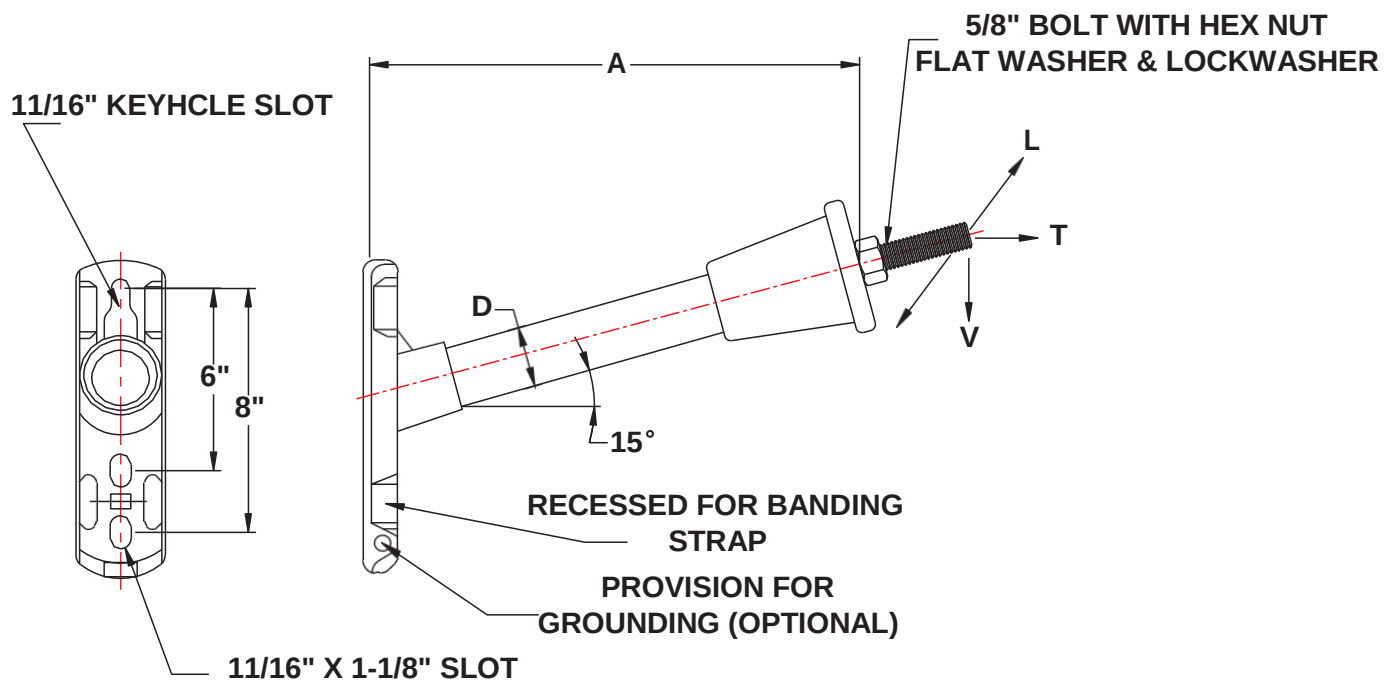
(EXAMPLE: FOR 15" LENGTH: SPCC-2-15)

GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO CATALOG NUMBER.(EXAMPLE: SPCC-2-15-4-13)

TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER.(EXAMPLE: SPCC-2-15-C)



SINGLE PHASE POST INSULATOR BRACKETS 15° UPSWEEP



CATALOG NUMBER	DIM IN INCHES		MINIMUM RATING (LBS)		
	A	D	VERT.-V	LONG-L	TRAN.-T
SPPB-1.5-16	16	1 1/2	1400	1400	1500
SPPB-1.5-18	18	1 1/2	1200	1200	1500
SPPB-1.5-24	24	1 1/2	950	950	1500
SPPB-1.5-30	30	1 1/2	750	750	1500
SPPB-1.5-36	36	1 1/2	500	500	1500

NOTES:

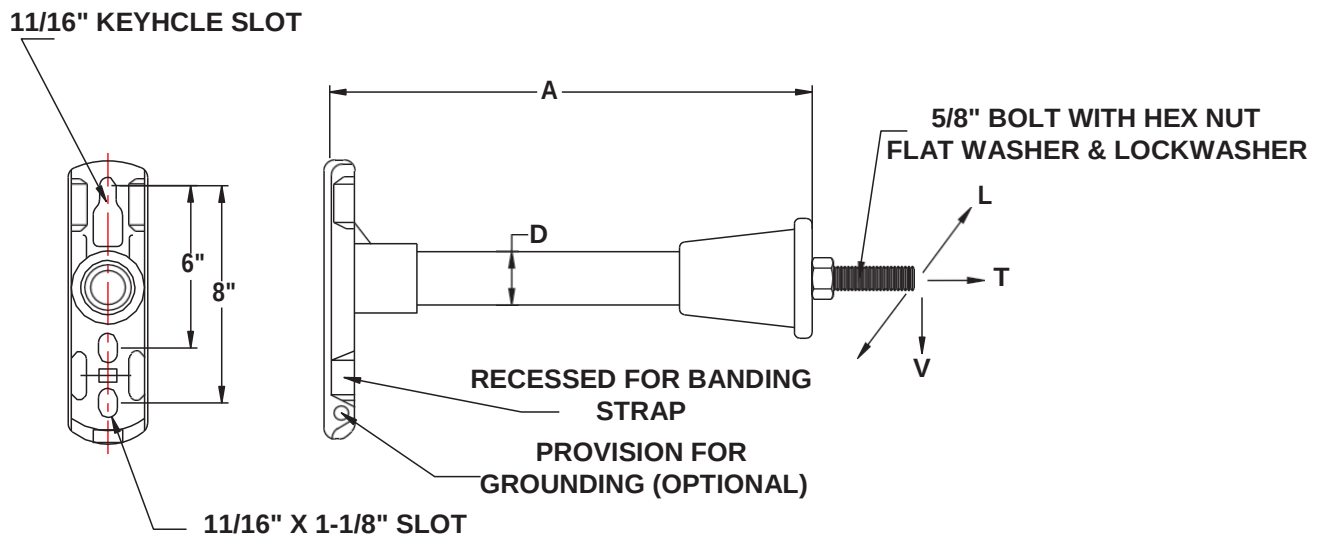
ROD: FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING: DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS: FOR OTHER LENGTHS (A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.
(EXAMPLE: FOR 20" LENGTH: SPPB-1.5-20)GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING, ADD SUFFIX "4-13". TO
CATALOG NUMBER. (EXAMPLE: SPPB-1.5-20-4-13)



SINGLE PHASE POST INSULATOR BRACKETS HORIZONTAL



CATALOG NUMBER	DIM IN INCHES		MINIMUM RATING (LBS)		
	A	D	VERT.-V	LONG-L	TRAN.-T
SPPB-0-1.5-16	16	1 1/2	1400	1300	1500
SPPB-0-1.5-18	18	1 1/2	1200	1150	1500
SPPB-0-1.5-24	24	1 1/2	950	850	1500
SPPB-0-1.5-30	30	1 1/2	750	700	1500
SPPB-0-1.5-36	36	1 1/2	500	500	1500

NOTES:

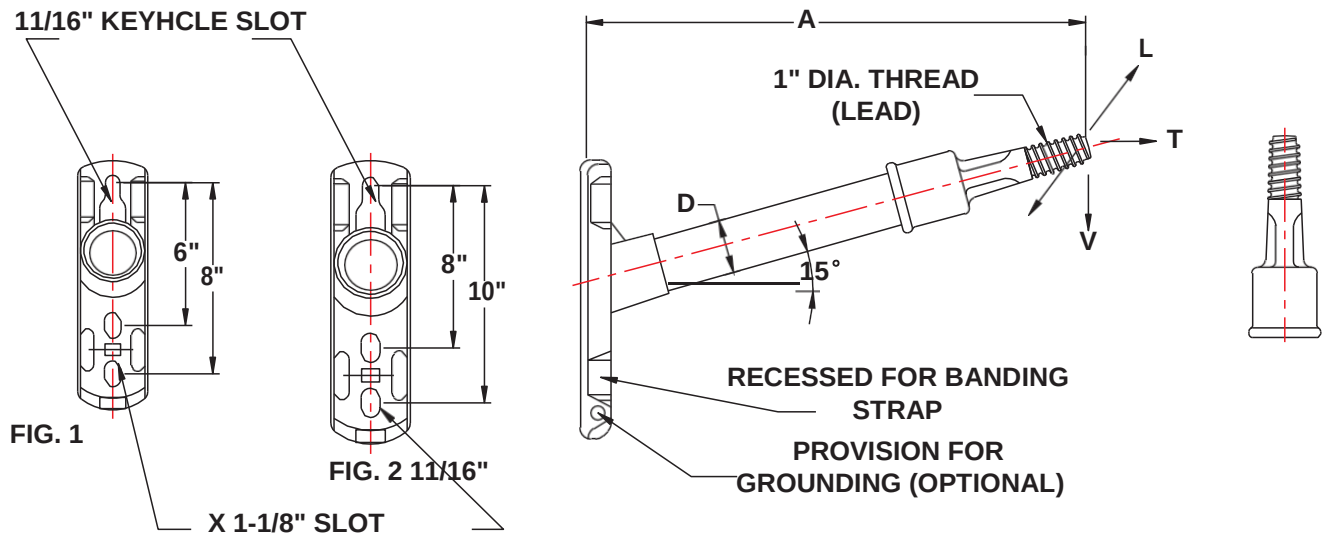
ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.
(EXAMPLE: FOR 20" LENGTH: SPPB-0-1.5-20)GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO
CATALOG NUMBER.(EXAMPLE: SPPB-0-1.5-20-4-13)



SINGLE PHASE STANDOFF BRACKETS STRAIGHT PIN



CATALOG NUMBER	FIG	DIM IN INCHES		MINIMUM RATING(LBS)		
		A	D	VERT.-V	LONG-L	TRANS.-T
SPHP-1.5-12	1	12	11/2	1800	1700	1500
SPHP-1.5-14	1	14	11/2	1600	1600	1500
SPHP-1.5-16	1	16	11/2	1400	1400	1500
SPHP-1.5-18	1	18	11/2	1200	1200	1500
SPHP-1.5-20	1	20	11/2	1100	1100	1500
SPHP-1.5-24	1	24	11/2	1050	900	1500
SPHP-2-18	2	18	2	2300	1400	2500
SPHP-2-21	2	21	2	2100	1350	2500
SPHP-2-24	2	24	2	1750	1200	2500
SPHP-2-27	2	27	2	1550	1050	2500
SPHP-2-30	2	30	2	1400	950	2500

NOTES:

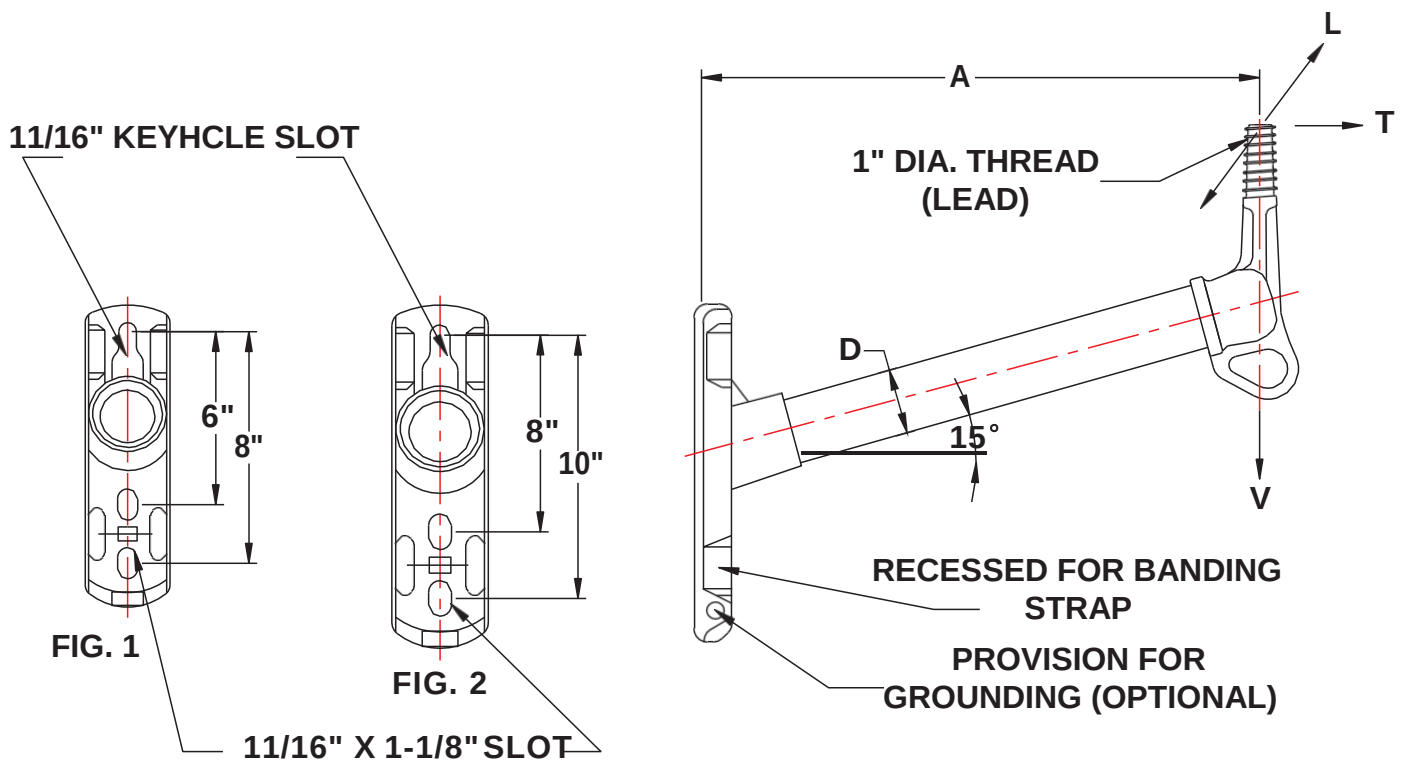
ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.
(EXAMPLE: FOR 19" LENGTH: SPPB-0-1.5-20)GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO
CATALOG NUMBER.(EXAMPLE: SPPB-0-1.5-20-4-13)



SINGLE PHASE STANDOFF BRACKETS VERTICAL PIN



CATALOG NUMBER	FIG	DIM IN INCHES		MINIMUM RATING(LBS)		
		A	D	VERT.-V	LONG-L	TRANS.-T
SPVP-1.5-12	1	12	1.5	2200	1300	2000
SPVP-1.5-14	1	14	1.5	2000	1200	2000
SPVP-1.5-16	1	16	1.5	1600	1000	2000
SPVP-1.5-18	1	18	1.5	1500	900	2000
SPVP-1.5-20	1	20	1.5	1250	800	2000
SPVP-1.5-24	1	24	1.5	1000	700	2000
SPVP-1.5-26	1	26	1.5	750	600	2000
SPVP-2-12	2	112	2	2550	2000	2500
SPVP-2-15	2	15	2	2400	1950	2500
SPVP-2-18	2	18	2	2250	1900	2500
SPVP-2-20	2	20	2	2100	1850	2500
SPVP-2-24	2	24	2	2100	1850	2500
SPVP-2-26	2	26	2	1950	1800	2500
SPVP-2-30	2	30	2	1800	1750	2500

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTINGS:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTH:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

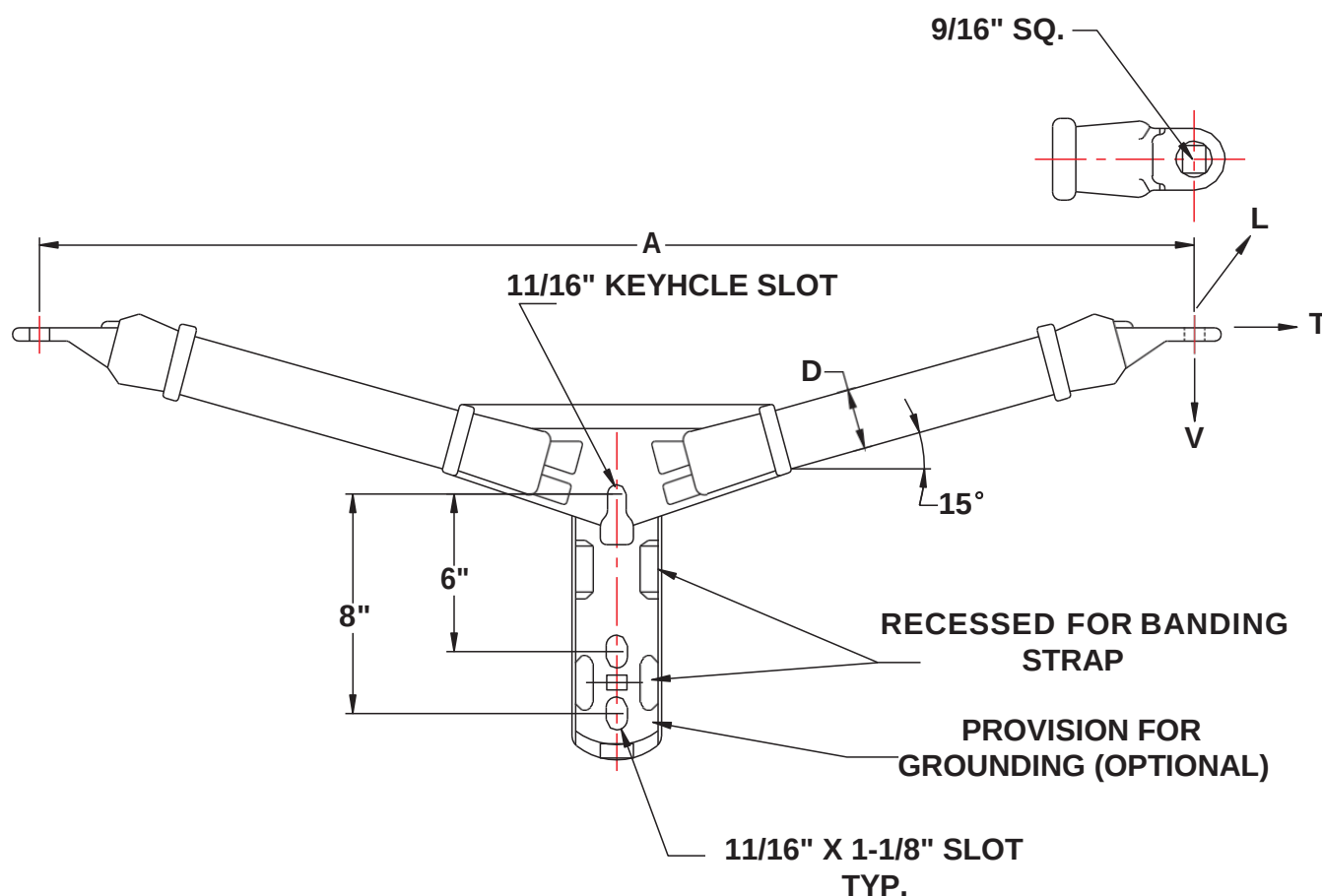
(EXAMPLE: FOR 19" LENGTH: SPVP-2-19)

THREADS:FOR 1-3/8" THREADS,ADD SUFFIX "1.375" TO CATALOG NUMBER.(EXAMPLE:SPVP-2-19-1.375)

GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO CATALOG NUMBER.(EXAMPLE: SPVP-2-19-4-13)



TWO PHASE SINGLE POSITION CUTOUT AND ARRESTER BRACKETS



CATALOG NUMBER	DIM IN INCHES		MIN. RATING (LBS)		
	A	D	VERT.-V	LONG-L	TRANS.-T
TP1CAB-1.5-36	36	1 1/2	1200	1200	10000
TP1CAB-1.5-42	42	1 1/2	950	950	10000
TP1CAB -1.5-48	48	1 1/2	900	900	10000

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: FOR 15" LENGTH: SPCC-2-15)

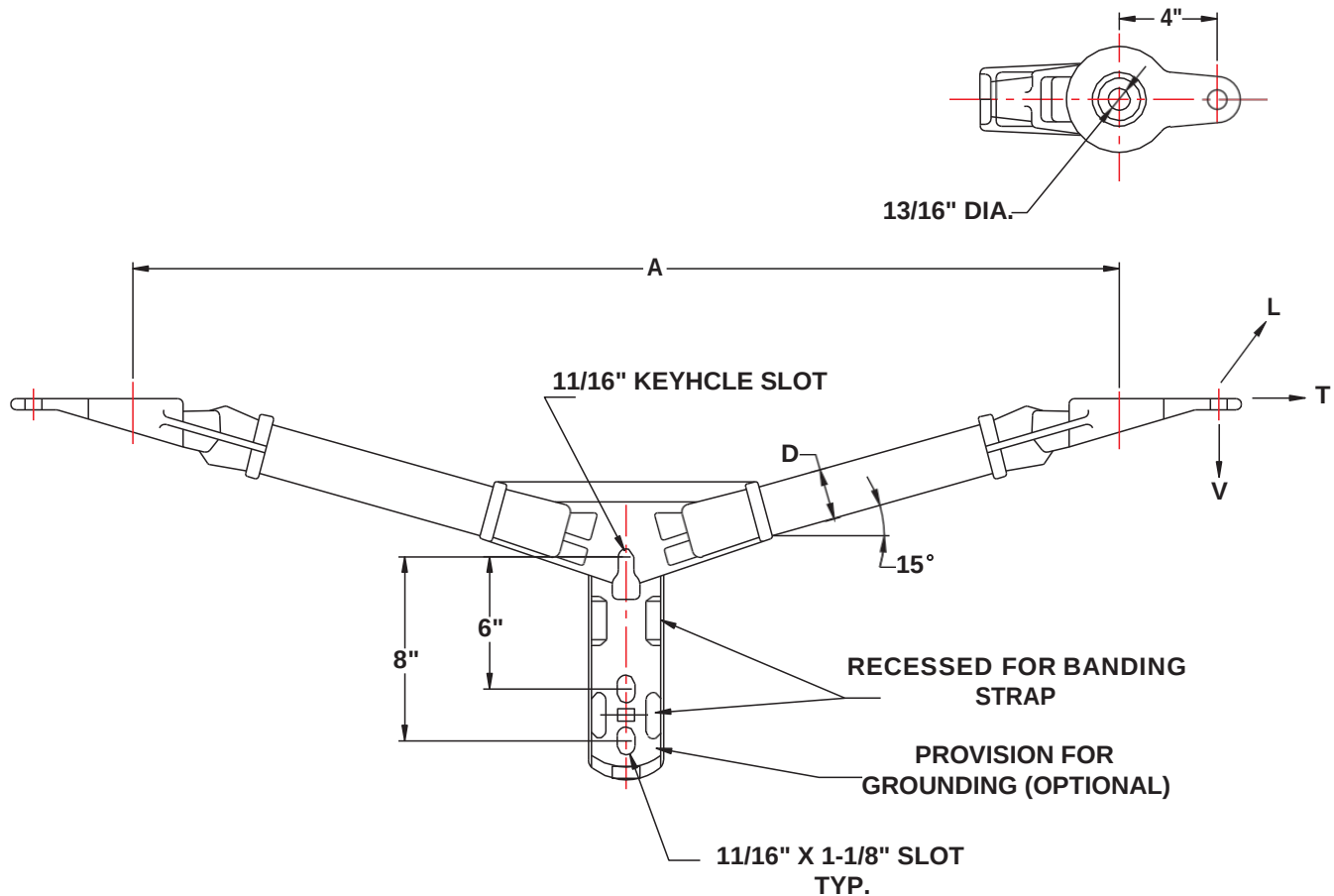
GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO

CATALOG NUMBER.(EXAMPLE: SPCC-2-15-4-13)

TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER.(EXAMPLE:
SPCC-2-15-C)



TWO PHASE SINGLE POSITION APPARATUS BRACKETS



CATALOG NUMBER	DIM IN INCHES		MIN. RATING (LBS)		
	A	D	VERT.-V	LONG-L	TRANS.-T
TPSP-1.5- 36	36	1 1/2	1200	950	10000
TPSP-1.5- 42	42	1 1/2	1050	800	10000
TPSP-1.5- 48	48	1 1/2	900	700	10000

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: FOR 30" LENGTH: TPSP-1.5-30)

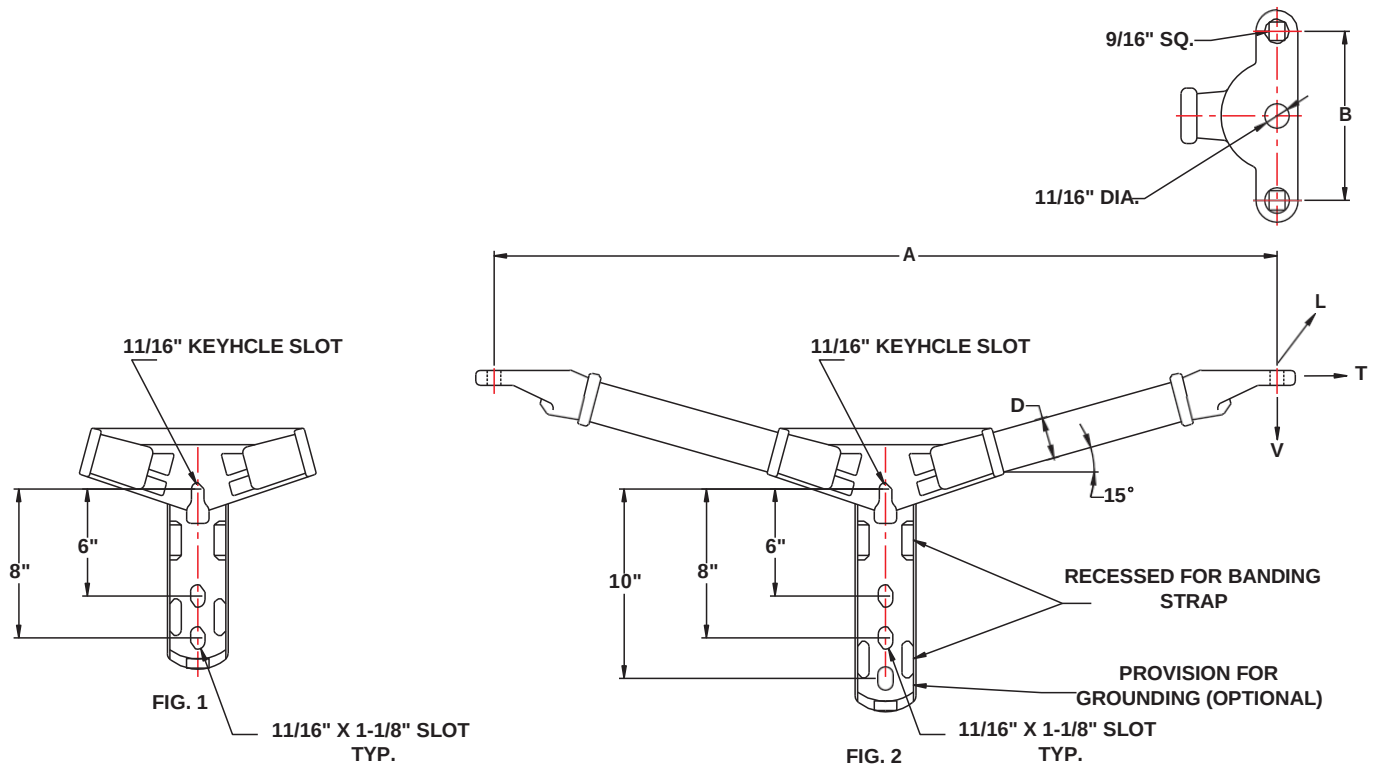
GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO

CATALOG NUMBER.(EXAMPLE: TPSP-1.5-30-4-13)

TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER.(EXAMPLE: TPSP-1.5-30-C)



TWO PHASE SINGLE POSITION CUTOUT AND ARRESTER BRACKETS



CATALOG NUMBER	BASE	END FITTING	DIM IN INCHES			MIN. RATING (LBS)
	FIG.	FIG.	A	D	B	VERT.-T
TPTP-1.5-36	1	3	36	1 1/2	12	1200
TPTP-1.5-42	1	3	42	1 1/2	12	950
TPTP-1.5-48	1	3	48	1 1/2	12	900
TPTP-2- 36	2	3	36	2	12	2300
TPTP-2- 42	2	3	42	2	12	2000
TPTP-2- 48	2	3	48	2	12	1750

NOTES:

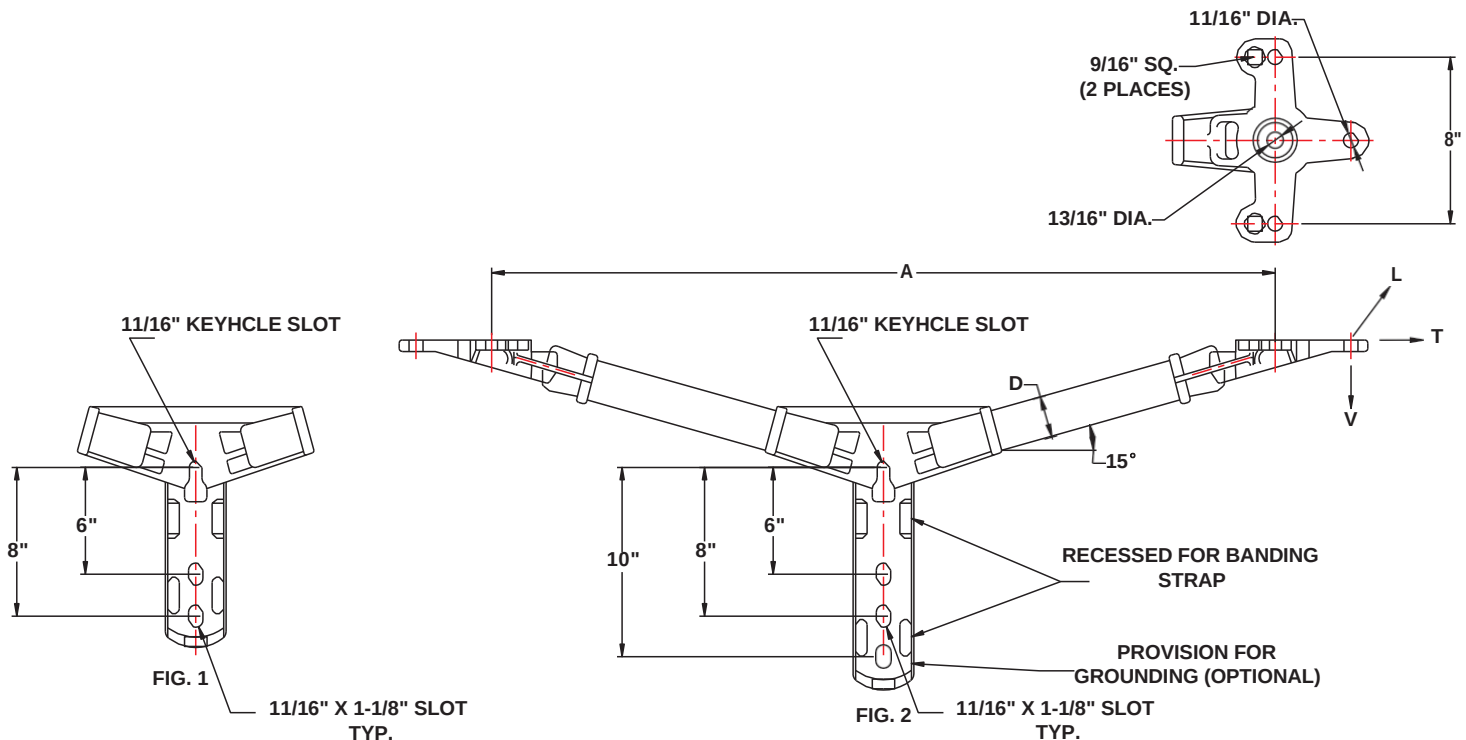
ROD: FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING: DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS: FOR OTHER LENGTHS (A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.
(EXAMPLE: FOR 30" LENGTH: TPTP-2-30)GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING, ADD SUFFIX "4-13". TO
CATALOG NUMBER. (EXAMPLE: TPTP-2-30-4-13)TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER. (EXAMPLE:
TPTP-2-30-C)



TWO PHASE SINGLE POSITION CUTOUT AND ARRESTER BRACKETS



CATALOG NUMBER	BASE	END FIT- TING	DIM IN INCHES		MIN. RATING(LBS)		
	FIG.	FIG.	A	D	VERT.-V	LONG-L	TRANS.-T
TPCC-1.5-36	1	3	36	1 1/2	1200	900	10000
TPCC-1.5-42	1	3	42	1 1/2	950	800	10000
TPCC-1.5-48	1	3	48	1 1/2	900	700	10000
TPCC- 2-36	2	3	36	2	2200	1500	10000
TPCC- 2-42	2	3	42	2	1900	1300	10000
TPCC-2-48	2	3	48	2	1650	1100	10000

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

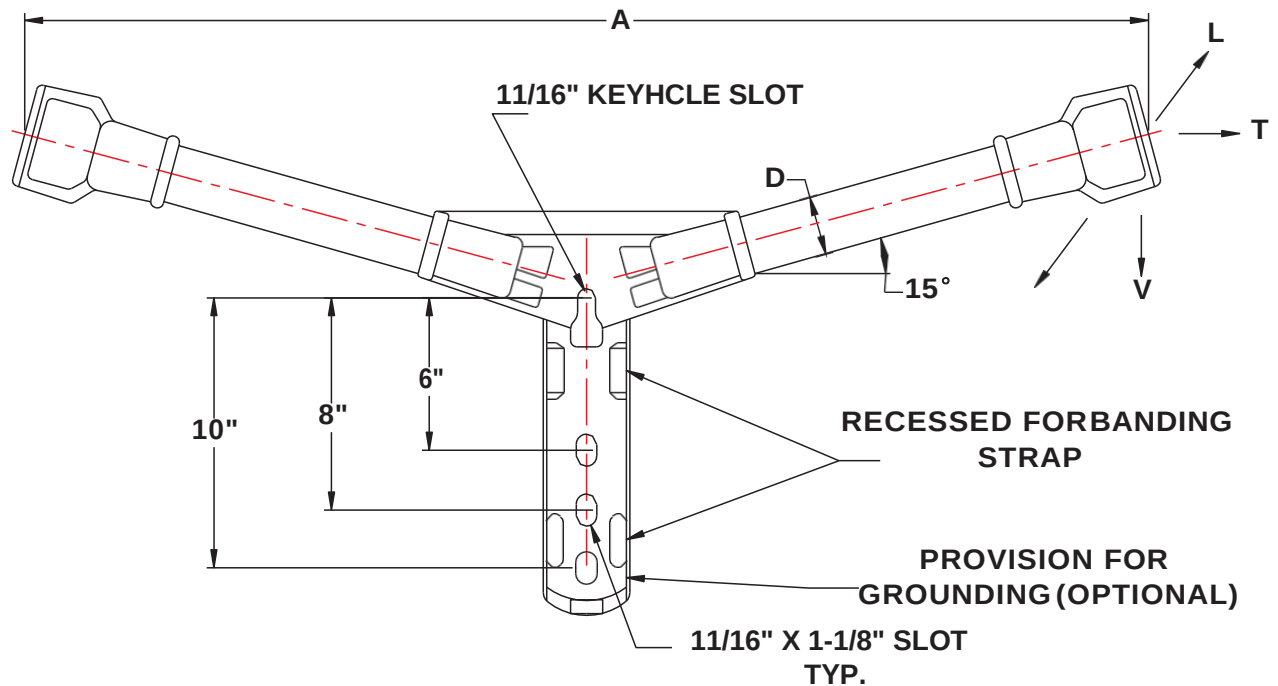
(EXAMPLE: FOR 30" LENGTH: TPCC-2-30)

GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO CATALOG NUMBER.(EXAMPLE: TPCC-2-30-4-13)

TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER.(EXAMPLE: TPCC-2-30-C)



TWO PHASE BRACKETS FOR LINE POST INSULATORS BRACKETS



CATALOG NUMBER	DIM IN INCHES		MINIMUM RATING (LBS)		
	A	D	VERT.-V	LONG-L	TRANS.-T
TPLP-2-24	24	2	2400	1850	2500
TPLP-2-28	28	2	2250	1700	2500
TPLP-2-34	34	2	2100	1500	2500
TPLP-2-42	42	2	1850	1250	2500

NOTES:

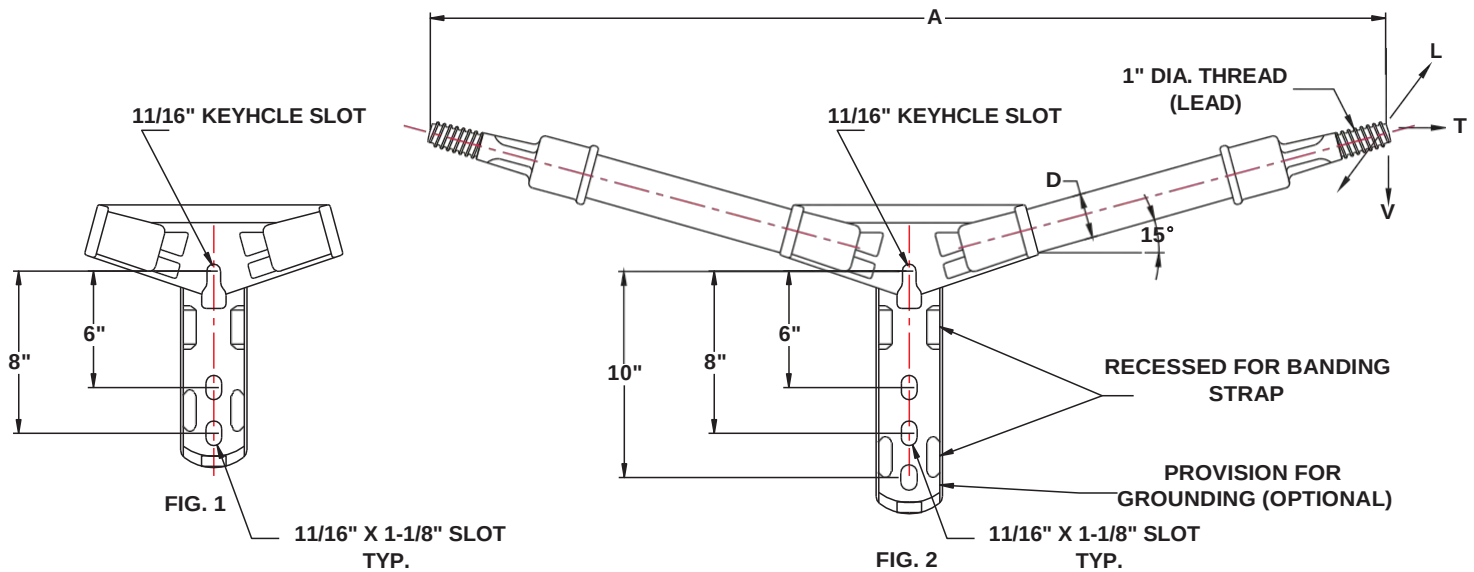
ROD: FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING: DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS: FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.
(EXAMPLE: FOR 30" LENGTH: TPLP-2-30)GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING, ADD SUFFIX "4-13". TO
CATALOG NUMBER. (EXAMPLE: TPLP-2-30-4-13)



TWO PHASE INSULATOR BRACKETS STRAIGHT PIN



CATALOG NUMBER	FIG.	DIM IN INCHES		MINIMUM RATING (LBS)		
		A	D	VERT.-V	LONG-L	TRANS.-T
TPHP-1.5-30	1	30	1 1/2	1500	1500	1500
TPHP-1.5-36	1	36	1 1/2	1200	1200	1500
TPHP-1.5-40	1	40	1 1/2	1000	1000	1500
TPHP-1.5-48	1	48	1 1/2	900	900	1500
TPHP-2-36	2	36	2	2550	2000	2500
TPHP-2-48	2	48	2	2250	1900	2500
TPHP-2-54	2	54	2	2100	1850	2500

NOTES:

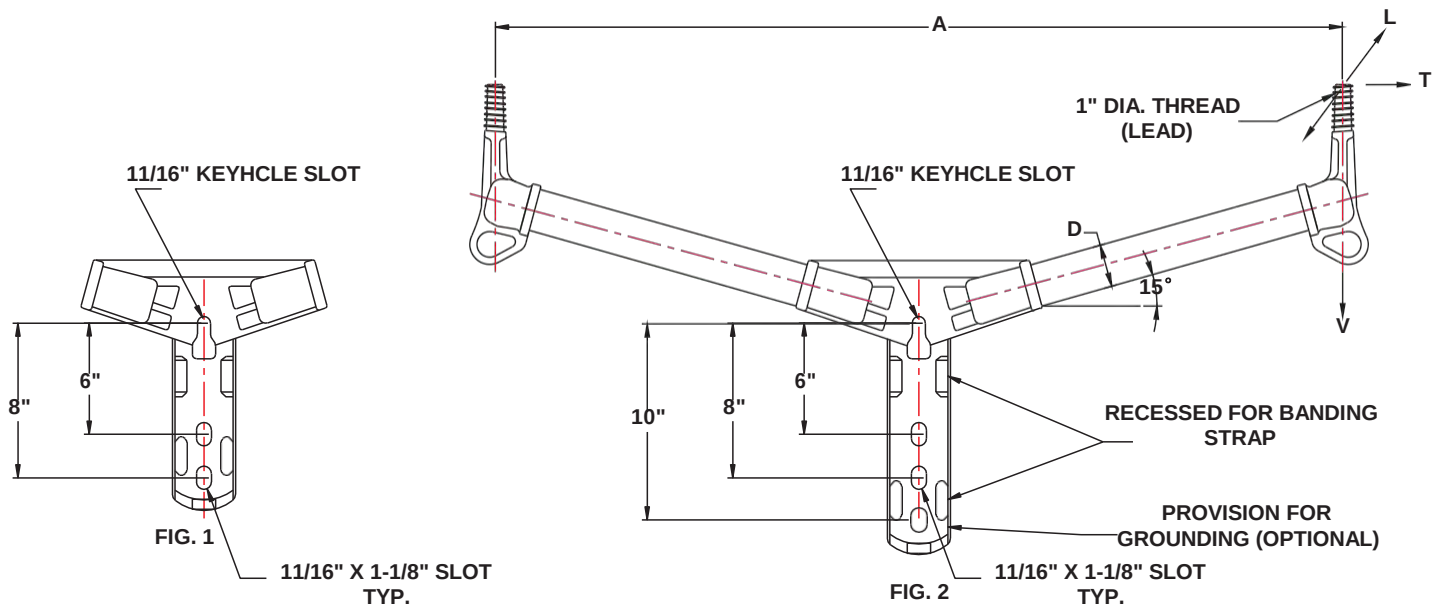
ROD: FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING: DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS: FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.
(EXAMPLE: FOR 60" LENGTH: TPHP-2-60)THREADS: FOR OTHER LENGTHS(A-DIM.) SUBSTITUTE LENGTH DESIRED FOR SUFFIX
NO. (EXAMPLE: TPHP-2-60-1.375)GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING, ADD SUFFIX "4-13". TO
CATALOG NUMBER. (EXAMPLE: TPHP-2-60-4-13)



TWO PHASE INSULATOR BRACKETS VERTICAL PIN



CATALOG NUMBER	FIG	DIM IN INCHES		MINIMUM RATING (LBS)		
		A	D	VERT.-V	LONG-L	TRANS.-T
TPVP-1.5-30	1	30	1.5	1700	1100	2000
TPVP-1.5-36	1	36	1.5	1500	900	2000
TPVP-1.5-40	1	40	1.5	1300	850	2000
TPVP-1.5-48	1	48	1.5	1000	700	2000
TPVP-1.5-60	1	60	1.5	800	550	2000
TPVP-2-36	2	36	2	2550	2000	2500
TPVP-2-42	2	42	2	2400	1950	2500
TPVP-2-48	2	48	2	2400	2000	2500
TPVP-2-54	2	54	2	2200	1900	2500
TPVP-2-60	2	60	2	2000	1850	2500
TPVP-2-72	2	72	2	1800	1750	2500

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTINGS:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTH:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: FOR 60" LENGTH: TPHP-2-60)

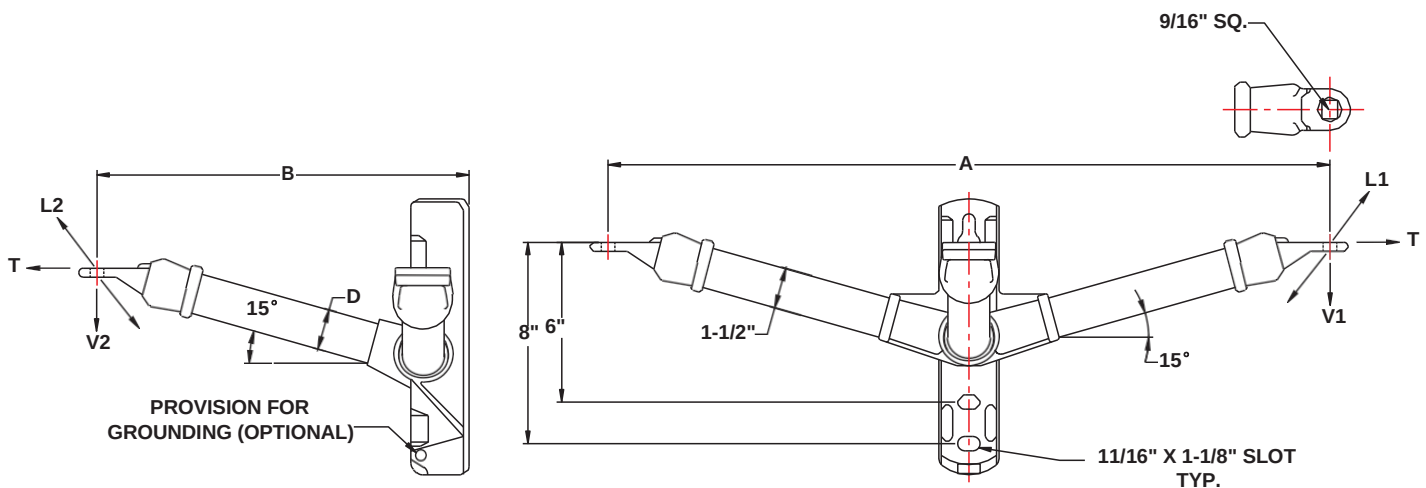
THREADS: FOR OTHER LENGTHS(A-DIM.) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: TPHP-2-60-1.375)

GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO CATALOG NUMBER.(EXAMPLE: TLP-2-60-4-13)



THREE PHASE SINGLE POSITION CUTOUT AND ARRESTER BRACKETS



CATALOG NUMBER	DIM IN INCHES		MIN. RATING (LBS)				
	A	B	VERT. -V		LONG-V		TRANS.-T
			V1	V2	L1	L2	T
TP1CA-1.5-36	36	12 3/4	1200	1700	1200	1700	10000
TP1CA-1.5-42	42	12 3/4	900	1700	900	1700	10000
TP1CA-1.5-48	48	12 3/4	600	1700	600	1700	10000

NOTES:

ROD: FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING: DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS: FOR OTHER LENGTHS (A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: FOR 30" LENGTH: TP1CA-1.5-30)

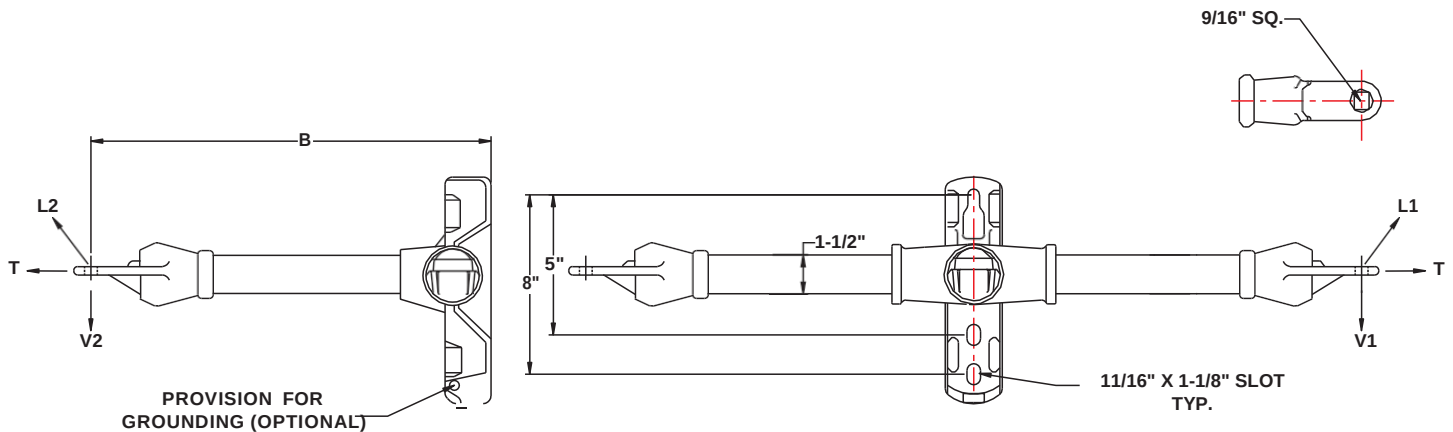
GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING, ADD SUFFIX "4-13". TO

CATALOG NUMBER. (EXAMPLE: TP1CA-1.5--30-4-13)

TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER. (EXAMPLE: TP1CA-1.5-30-C)



THREE PHASE TWO POSITION CUTOUT AND ARRESTER BRACKETS



CATALOG NUMBER	DIM IN INCHES		MIN. RATING (LBS)				
	A	B	VERT. -V		LONG-V		TRANS.-T
			V1	V2	L1	L2	T
TP1CA-0-1.5-36	36	12 3/4	1200	1700	1200	1700	10000
TP1CA-0-1.5-42	42	12 3/4	950	1700	900	1700	10000
TP1CA-0-1.5-48	48	12 3/4	600	1700	600	1700	10000

NOTES:

ROD: FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING: DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS: FOR OTHER LENGTHS (A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: FOR 30" LENGTH: TP1CA-0-1.5-30)

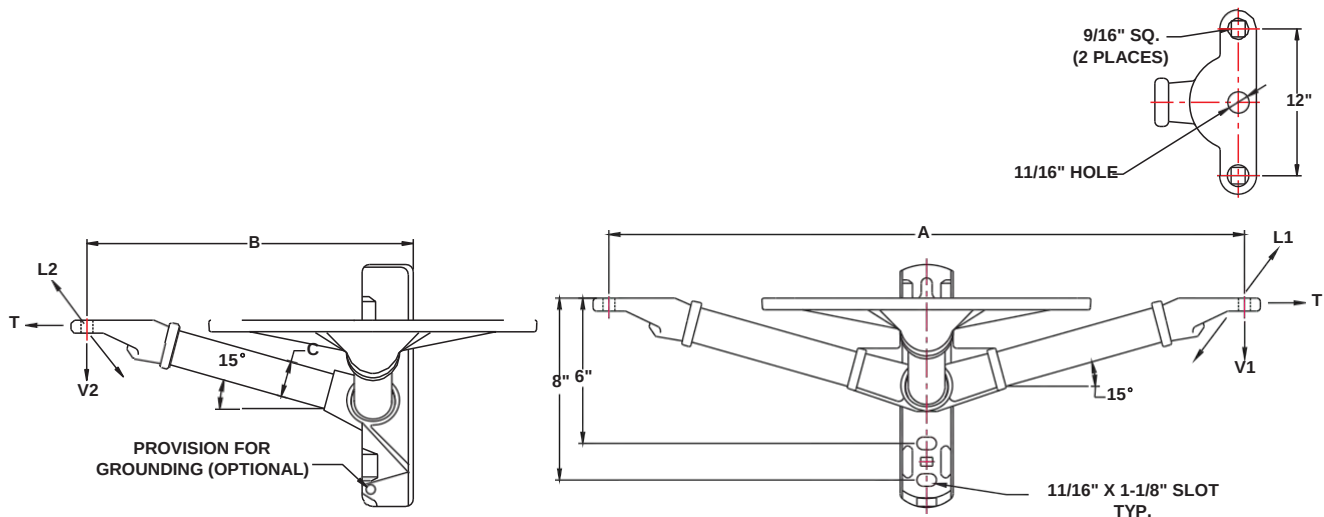
GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING, ADD SUFFIX "4-13". TO CATALOG NUMBER. (EXAMPLE: TP1CA-0-1.5-30-4-13)

TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER.

(EXAMPLE: TP1CA-0-1.5-30-C)



THREE PHASE TWO POSITION CUTOUT AND ARRESTER BRACKETS



CATALOG NUMBER	DIM IN INCHES			MIN. RATING (LBS)				
	A	C	B	VERT. -V		LONG-V		TRANS.-T
				V1	V2	L1	L2	T
TP2CA-1.5-36	36	1 1/2	12	1200	1700	900	1400	10000
TP2CA-1.5-42	42	1 1/2	12	950	1700	800	1400	10000
TP2CA-1.5-48	48	1 1/2	12	900	1700	700	1400	10000

NOTES:

ROD: FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING: DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS: FOR OTHER LENGTHS (A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: FOR 30" LENGTH: TP2CA-1.5-30)

GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING, ADD SUFFIX "4-13". TO

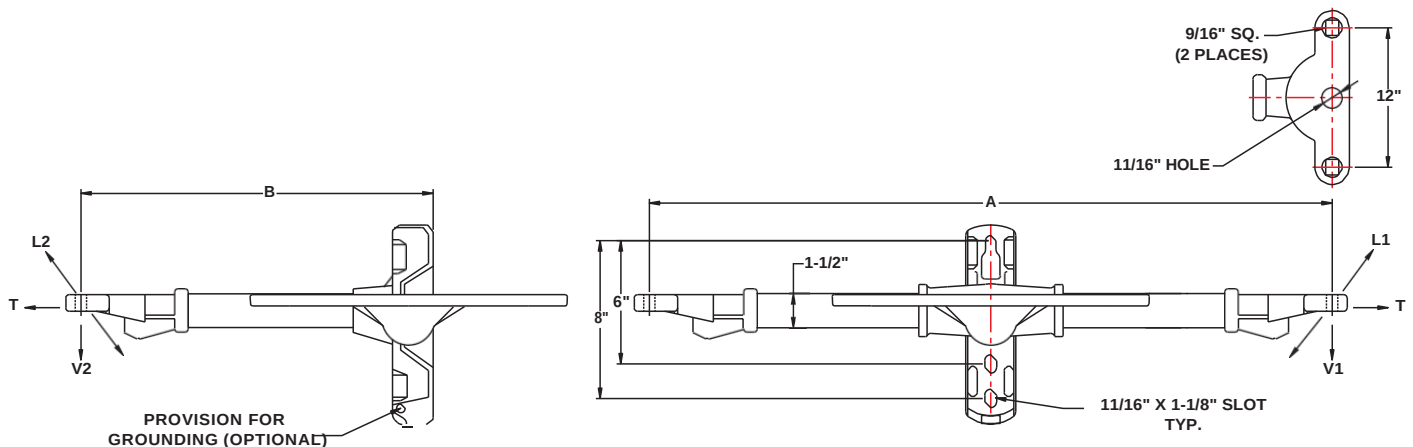
CATALOG NUMBER. (EXAMPLE: TP2CA-1.5--30-4-13)

TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER.

(EXAMPLE: TP2CA-1.5-30-C)



THREE PHASE TWO POSITION CUTOUT AND ARRESTER BRACKETS



CATALOG NUMBER	DIM IN INCHES		MIN. RATING (LBS)				
	A	B	VERT.		LONG.		TRANS.
			V1	V2	L1	L2	T
TP2CA-0-1.5-36	36	12	1200	1700	900	1400	10000
TP2CA-0-1.5-42	42	12	950	1700	800	1400	10000
TP2CA-0-1.5-48	48	12	900	1700	700	1400	10000

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: FOR 30" LENGTH: TP2CA-0-1.5-30)

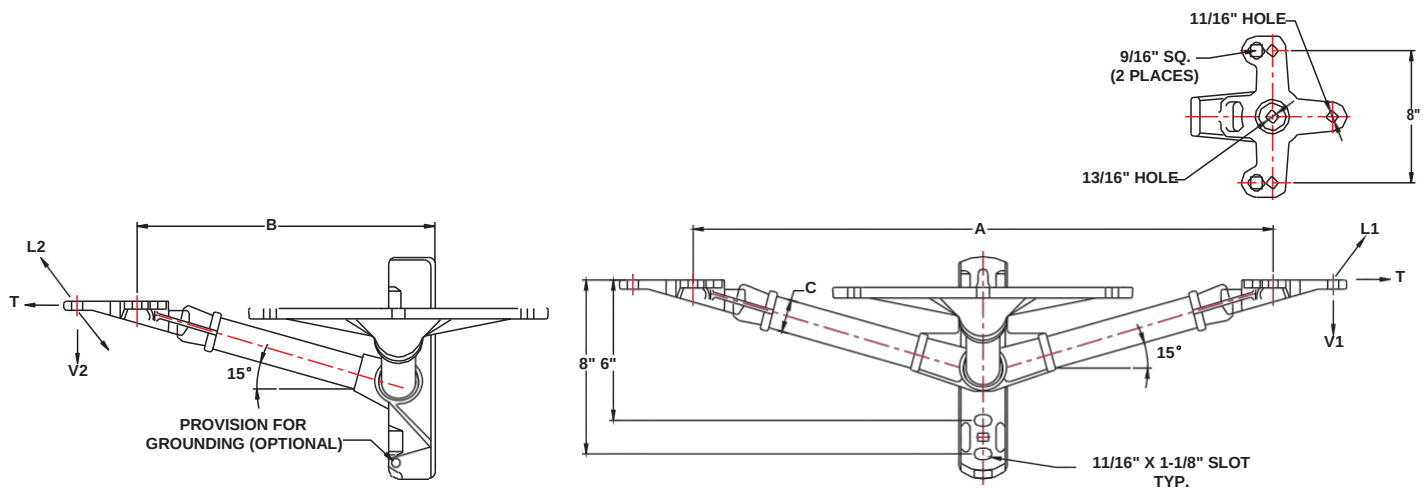
GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO
CATALOG NUMBER.(EXAMPLE: TP2CA-0-1.5--30-4-13)

TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER.

(EXAMPLE: TP2CA-0-1.5-30-C)



THREE PHASE THREE POSITION CUTOUT AND ARRESTER BRACKETS



CATALOG NUMBER	DIM IN INCHES			MIN. RATING (LBS)				
	A	C	B	VERT. -V		LONG-V		TRANS.-T
				V1	V2	L1	L2	T
TP3CA-1.5-36	36	1 1/2	12	1200	1700	900	1400	10000
TP3CA-1.5-42	42	1 1/2	13	900	1600	700	1300	10000
TP3CA-1.5-48	48	1 1/2	24	900	900	700	700	10000

NOTES:

ROD:FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING:DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS:FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: FOR 30" LENGTH: TP3CA-1.5-30)

GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING,ADD SUFFIX"4-13".TO

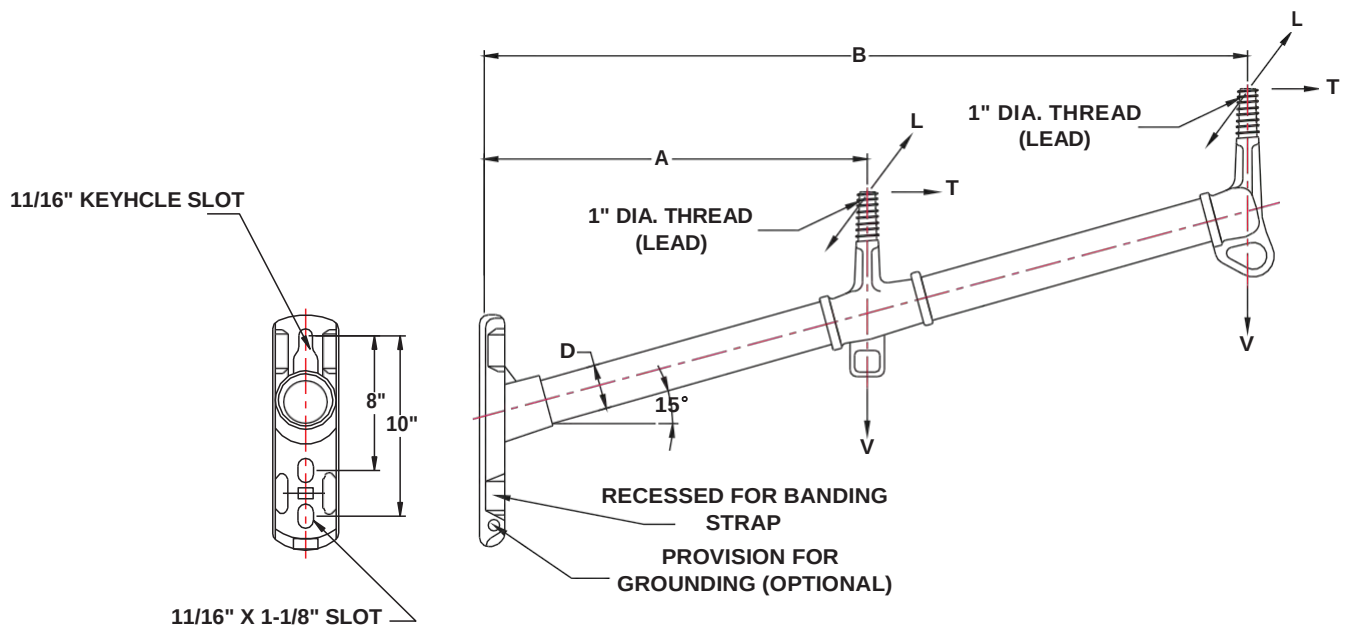
CATALOG NUMBER.(EXAMPLE: TP3CA-1.5--30-4-13)

TO SPECIFY CAPTIVE CARRIAGE BOLTS, ADD SUFFIX "C" TO CATALOG NUMBER.(EXAMPLE:

TP3CA-1.5-30-C)



DOUBLE PHASE VERTICAL PIN ALLEY ARMS



CATALOG NUMBER	DIM IN INCHES		
	A	B	D
DVP-2-38	14	38	2.0
DVP-2-42	12	42	2.0

NOTES:

ROD: FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING: DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS: FOR OTHER LENGTHS(A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO.

(EXAMPLE: FOR 30" LENGTH: DVP-2-30)

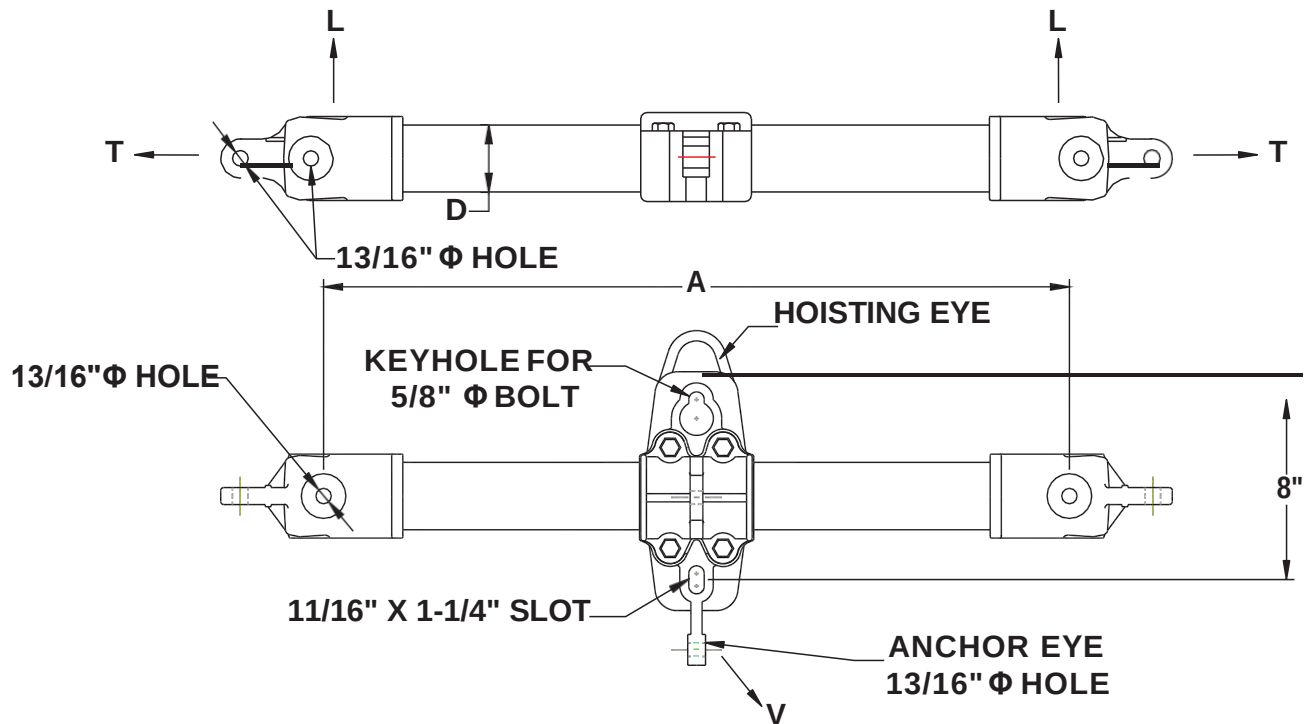
THREADS: FOR OTHER LENGTHS(A-DIM.) SUBSTITUTE LENGTH DESIRED FOR SUFFIX

NO. GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING, ADD

SUFFIX "4-13". TO CATALOG NUMBER.



DEADEND CROSSARMS



CATALOG NUMBER	ROD OR TUBE	DIM IN INCHES		MINIMUM RATING (LBS)		
		A	D	ANCHOR EYE	LONG-L	TRANS.-T
DEX3-36R	ROD	36	3	25000	12000	10000
DEX3-42R	ROD	36	3	25000	10000	10000
DEX3-48R	ROD	40	3	25000	9500	10000
DEX3-54R	ROD	48	3	25000	9000	10000
DEX3-60R	ROD	60	3	25000	8500	10000
DEX3-36T	TUBE	36	3	25000	7000	10000
DEX3-42T	TUBE	42	3	25000	6000	10000
DEX3-48T	TUBE	48	3	25000	5000	10000
DEX3-54T	TUBE	54	3	25000	4500	10000
DEX3-60T	TUBE	60	3	25000	4000	10000

NOTES:

ROD: FIBERGLASS WITH ULTRAVIOLET PROTECTIVE COATING-MUNSEL GRAY.

CASTING: DUCTILE IRON GRADE 654512 HOT DIP GALVANIZED PER ASTM A-153.

LENGTHS: FOR OTHER LENGTHS (A-DIM) SUBSTITUTE LENGTH DESIRED FOR SUFFIX NO. (EXAMPLE: FOR 42" LENGTH: DEX3-42R)

GROUNDING: TO SPECIFY 1/2-13 TAPPED HOLE FOR GROUNDING, ADD SUFFIX "4-13". TO CATALOG NUMBER. (EXAMPLE: DEX3-42R-4-13)



INDEX

SECTION 11 - FORMED WIRE PRODUCTS

ARMOR RODS: ALUMINUM (AAR)-----	11-1A
ARMOR RODS: ALUMINUM (AAR)-----	11-1B
LINE GUARDS: ALUMINUM (LG)-----	11-2A
LINE GUARDS: ALUMINUM (LG)-----	11-2B
GUY DEAD-ENDS GALVANIZED STEEL (GG) -----	11-3
GUY DEAD-ENDS FOR ALUMINUM CLAD STEEL (AGG) -----	11-4
GUY DEAD-ENDS: COPPERWELD (CDE)-----	11-5
DISTRIBUTION-GRIPS DEAD-END (DG)-----	11-6
DISTRIBUTION-GRIPS DEAD-END (GALVANIZED STEEL) (DGP)-----	11-7
OVERHEAD DEAD-ENDS (OHDE) -----	11-8
COATED DEAD-ENDS (CDG)-----	11-9
SERVICE-GRIP DEAD-ENDS (SG)-----	11-10
HELICAL SUSPENSION UNITS (HSU) -----	11-11A
HELICAL SUSPENSION UNITS (HSU) -----	11-11B
HELICAL SUSPENSION UNITS (HSU) -----	11-11C
HELICAL SUSPENSION UNITS (HSU) -----	11-11D
HELICAL SUSPENSION UNITS (HSU) -----	11-11E
HELICAL SUSPENSION UNITS (HSU) -----	11-11F
DISTRIBUTION TIES (UTC / UTF / UTJ / UTK)-----	11-12A
DISTRIBUTION TIES (UTC / UTF / UTJ / UTK)-----	11-12B
DISTRIBUTION TIES (UTC / UTF / UTJ / UTK)-----	11-12C
DISTRIBUTION TIES (UTC / UTF / UTJ / UTK)-----	11-12D
SIDE TIES - GROOVE FORMED (STC / STF / STJ) -----	11-13A
SIDE TIES - GROOVE FORMED (STC / STF / STJ) -----	11-13B
SIDE TIES - GROOVE FORMED (STC / STF / STJ)-----	11-13C
DOUBLE SIDE TIES (DBST)-----	11-14A



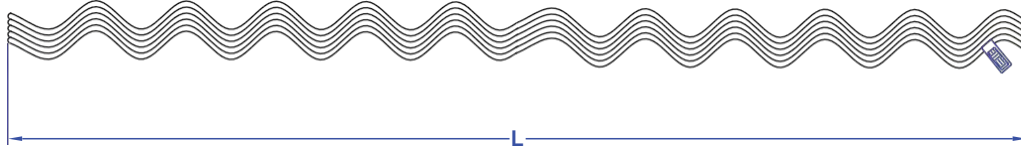
DOUBLE SIDE TIES (DBST)-----	11-14B
DOUBLE SIDE TIES (DBST)-----	11-14C
LONGSPAN TIES (LTC / LTF / LTJ)-----	11-15A
LONGSPAN TIES (LTC / LTF / LTJ)-----	11-15B
LONGSPAN TIES (LTC / LTF / LTJ)-----	11-15C
LONGSPAN TIES (LTC / LTF / LTJ)-----	11-15D
LONGSPAN TIES (LTC / LTF / LTJ)-----	11-15E
QUICK WRAP SIDE TIES (EZSTC / EZSTF / EZSTJ) -----	11-16A
QUICK WRAP SIDE TIES (EZSTC / EZSTF / EZSTJ) -----	11-16B
QUICK WRAP SIDE TIES (EZSTC / EZSTF / EZSTJ)-----	11-16C
DOUBLE SUPPORT TIES (DST) -----	11-17A
DOUBLE SUPPORT TIES (DST) -----	11-17B
SPIRAL VIBRATION DAMPERS (SVD)-----	11-18



ARMOR RODS: ALUMINUM

For use on:

ACSR, Compacted ACSR, Aluminum Alloy All-Aluminum, ACAR, ACSS (AW & TW)



CATALOG NUMBER	DIAMETER RANGE (INCHES)		NOMINAL CONDUCTOR SIZE	UNITS	WT/LBS	LENGTH (INCHES)	ROD DIAMETER (INCHES)	RODS PER SET	COLOR CODE
	MIN.	MAX.							
AAR207 AAR207D	.194	.207	#6, 7W Alum. Alloy #6, 6/1	100 100	35 45	40(S) 52(D)	.121	7	Blue
AAR219 AAR219D	.208	.219	#4, 7W, Comp.	100 100	35 45	40(S) 52(D)	.121	7	Black
AAR228 AAR228D	.220	.228	#5, 3-7W Alum. Alloy #5, 6/1	100 100	40 51	40(S) 52(D)	.121	8	White
AAR243 AAR243D	.229	.243	#4, 7W All-Alum. #4, 6/1-7/1 Comp.	100 100	40 51	40(S) 52(D)	.121	8	Brown
AAR259 AAR259D	.244	.259	#4, 6/1, 7/1 #4, 7W, Alum. Alloy	50 50	25 32	40(S) 52(D)	.146	7	Orange
AAR273 AAR273D	.260	.273	#3, 7W All-Alum. #2, 7W Comp.	50 50	26 34	42(S) 54(D)	.146	7	Green
AAR289 AAR289D	.274	.289	#3, 7W, Alum. Alloy	50 50	30 38	42(S) 54(D)	.146	8	Yellow
AAR308 AAR308D	.290	.308	#2, 7W All-Alum. #2, 6/1 Comp.	50 50	30 38	42(S) 54(D)	.146	8	Purple
AAR326 AAR326D	.309	.326	#2, 6/1, 7/1 #2, 7W Alum. Alloy	50 50	32 40	44(S) 56(D)	.136	9	Red
AAR346 AAR346D	.327	.346	#1, 7W All-Alum. #1/0, 7W-19W Comp.	50 50	38 46	46(S) 58(D)	.146	9	Blue
AAR366 AAR366D	.347	.366	#1, 6/1 #1, 7W Alum. Alloy	50 50	40 49	48(S) 60(D)	.146	9	Green
AAR389 AAR389D	.367	.389	1/0, 7W All-Alum. 2/0, 7W Comp.	50 50	45 55	50(S) 62(D)	.146	10	Black
AAR413 AAR413D	.390	.413	1/0, 6/1 1/0, 7W Alum. Alloy	50 50	55 67	52(S) 64(D)	.167	9	Yellow
AAR436 AAR436D	.414	.436	2/0, 7W-19W All-Alum. 3/0, 7W Comp.	50 50	48 58	52(S) 64(D)	.146	10	Brown
AAR463 AAR463D	.437	.463	2/0, 6/1 3/0, 6/1 Comp.	50 50	64 76	54(S) 66(D)	.167	10	Blue
AAR490 AAR490D	.464	.490	3/0, 7W-19W All Alum.	50 50	64 76	54(S) 66(D)	.167	10	Green
AAR521 AAR521D	.491	.521	3/0, 6/1 3/0, 7W Alum. Alloy 4/0, 6/1 Comp.	25 25	37 46	56(S) 68(D)	.167	11	Orange
AAR551 AAR551D	.522	.551	4/0, 7W-19W All-Alum.	25 25	38 46	58(S) 70(D)	.167	11	Black

Right-hand lay standard

(Continued on next page)

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) Single Support Length (S) and Double Support Length (D) are described on the first page of the Armor Rod section.
- (3) Reference O.D. Calculations for: APPLIED O.D. Calculations.



ARMOR RODS: ALUMINUM

CATALOG G NUMBER	EHV ARMOR ROD CATALOG NUMBER	DIAMETER RANGE (INCHES)		NOMINAL CONDUCTOR SIZE	UNITS	WT/LB S	LENGTH (INCHES)	ROD DIAMETER (INCHES)	RODS PER SET	COLOR CODE
		MIN.	MAX.							
AAR585		0.552	0.585	4/0, 6/1	25	46	60(S)	0.182	11	Red
AAR585D					25	55	72(D)			
AAR606		0.586	0.606	266.8 kcmil, 19W	25	52	62(S)	0.182	12	Black
AAR606D					25	61	74(D)			
AAR630		0.607	0.63	266.8 kcmil, 18/1	25	54	64(S)	0.182	12	Purple
AAR630D					25	63	76(D)			
AAR655		0.631	0.655	266.8 kcmil, 26/7	25	54	64(S)	0.182	12	Yellow
AAR655D					25	63	76(D)			
AAR679		0.656	0.679	336.4 kcmil, 19W	18	43	66(S)	0.182	13	Brown
AAR679D					18	51	78(D)			
AAR703		0.68	0.703	300 kcmil, 26/7	18	52	68(S)	0.204	12	Blue
AAR703D					18	60	80(D)			
AAR740		0.704	0.74	336.4 kcmil, 26/7	18	54	72(S)	0.204	12	Green
AAR740D					18	64	84(D)			
AAR782		0.741	0.782	397.5 kcmil, 18/1	18	59	72	0.204	13	Orange
AAR814		0.783	0.814	397.5 kcmil, 26/7	15	66	76	0.25	11	Purple
AAR845		0.815	0.845	636 kcmil, 19W Comp.	15	66	76	0.25	11	Red
AAR907		0.846	0.907	477 kcmil, 26/7	15	74	78	0.25	12	Blue
AAR929		0.908	0.929	636 kcmil, 37W	12	66	80	0.25	13	Green
AAR976		0.93	0.976	605 kcmil, 26/7	12	72	88	0.25	13	White
AAR1016	AAR1016E	0.977	1.016	636 kcmil, 26/7	9	50	92	0.31	11	Yellow
AAR1035	AAR1035E	1.017	1.035	795 kcmil, 37-61W	6	55	94	0.31	12	Brown
AAR1064	AAR1064E	1.036	1.064	715.5 kcmil, 26/7	6	56	96	0.31	12	Blue
AAR1098	AAR1098E	1.065	1.098	795 kcmil, 24/7	6	56	96	0.31	12	Green
AAR1139	AAR1139E	1.099	1.139	795 kcmil, 26/7	6	62	100	0.31	12	Orange
AAR1161	AAR1161E	1.14	1.161	954 kcmil, 36/1	6	63	100	0.31	13	Purple
AAR1208	AAR1208E	1.162	1.208	954 kcmil, 45/7 954 kcmil, 54/7 1033.5 kcmil, 37-61W	6	69	100	0.31	13	Red
AAR1269	AAR1269E	1.209	1.269	1113 kcmil, 45/7	6	81	100	0.365	12	Black
AAR1327	AAR1327E	1.27	1.327	1192.5 kcmil, 45/7	6	81	100	0.365	12	White
AAR1390	AAR1390E	1.328	1.39	1272 kcmil, 45/7	3	45	100	0.365	13	Yellow
AAR1440	AAR1440E	1.391	1.44	1431 kcmil, 45/7	3	54	100	0.436	11	Brown
AAR1508	AAR1508E	1.441	1.508	1590 kcmil, 45/7	3	58	100	0.436	12	Blue
AAR1578	AAR1578E	1.509	1.578	1590 kcmil, 54/19	3	58	100	0.436	12	Green
AAR1651	AAR1651E	1.579	1.651	1780 kcmil, 84/19	3	60	100	0.436	13	Orange
AAR1728	AAR1728E	1.652	1.728	2000 kcmil, 9/W	3	60	100	0.436	13	Purple
AAR1809	AAR1809E	1.729	1.809	2156 kcmil, 84/19	3	64	100	0.436	14	Red
AAR1898	AAR1898E	1.81	1.898	2500 kcmil, 91W	3	64	100	0.436	14	Black
AAR1991	AAR1991E	1.899	1.991		3	68	100	0.436	15	White
AAR2090	AAR2090E	1.992	2.09	3500 kcmil, 127W	3	68	100	0.436	15	Yellow
AAR2193	AAR2193E	2.091	2.193	3500 kcmil, 127W	3	80	100	0.468	15	Brown

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) Single Support Length (S) and Double Support Length (D) are described on the first page of the Armor Rod section.
- (3) Reference O.D. Calculations for: APPLIED O.D. Calculations.

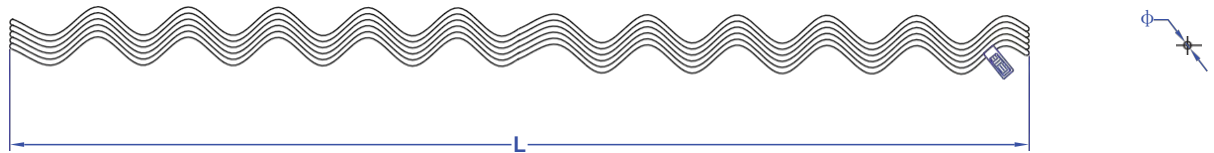


LINE GUARDS: ALUMINUM

For use on:

ACSR, Compacted ACSR, Aluminum Alloy All-Aluminum, AWAC®

Compacted All-Aluminum, ACAR



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Length (Inches)	Rod Diameter (Inches)	Rods Per Set	Color Code
	Min.	Max.		Per Carton					
LG-0122 LG-0122D	.182	.193	#6, 7W All-Alum.	100	12 19	17(S) 29(D)	.102	7	Purple
LG-0123 LG-0123D	.194	.207	#6, 6/1 #6, 7W Alum. Alloy	100	12 19	17(S) 29(D)	.102	7	Blue
LG-0125 LG-0125D	.220	.228	#5, 6/1 #5, 7W Alum. Alloy	100	16 26	17(S) 29(D)	.121	7	White
LG-0126 LG-0126D	.229	.243	#4, 7W All-Alum. #4, 6/1, 7/1 Comp.	100	20 32	19(S) 31(D)	.121	8	Brown
LG-0127 LG-0127D	.244	.259	#4, 6/1, 7/1 #4, 7W Alum. Alloy	100	20 32	19(S) 31(D)	.121	8	Orange
LG-0128 LG-0128D	.260	.273	#3, 7W All-Alum. #2, 7W Comp.	100	20 32	19(S) 31(D)	.121	8	Green
LG-0129 LG-0129D	.274	.289	#3, 7W Alum. Alloy	100	25 38	21(S) 33(D)	.121	9	Yellow
LG-0130 LG-0130D	.290	.308	#2, 7W All-Alum.	100	25 38	21(S) 33(D)	.121	9	Purple
LG-0131 LG-0131D	.309	.326	#2, 6/1, 7/1 #2, 7W Alum. Alloy	100	25 38	21(S) 33(D)	.121	9	Red
LG-0132 LG-0132D	.327	.346	#1, 7W All-Alum. 1/0, 7W-19W Comp.	100	28 42	21(S) 33(D)	.121	10	Blue
LG-0133 LG-0133D	.347	.366	#1, 6/1 1/0, 6/1 Comp.	100	30 44	23(S) 35(D)	.121	10	Green
LG-0134 LG-0134D	.367	.389	1/0, 7W All-Alum. 2/0, 7W-19W Comp.	100	32 46	23(S) 35(D)	.121	11	Black
LG-0135 LG-0135D	.390	.413	1/0, 6/1 1/0, 7W Alum. Alloy	100	35 50	25(S) 37(D)	.121	11	Yellow
LG-0136 LG-0136D	.414	.436	2/0, 7W All-Alum. 3/0, 7W-19W Comp.	50	20 29	25(S) 37(D)	.121	12	Brown
LG-0137 LG-0137D	.437	.463	2/0, 6/1, 7/1 2/0, 7W Alum. Alloy	50	23 32	27(S) 39(D)	.121	13	Blue
LG-0138 LG-0138D	.464	.490	3/0, 7W-19W All-Alum.	50	24 32	27(S) 39(D)	.121	13	Green
LG-0139 LG-0139D	.491	.521	3/0, 6/1 3/0, 7W Alum. Alloy	50	26 36	29(S) 41(D)	.121	14	Orange
LG-0140 LG-0140D	.522	.551	4/0, 7W-19W All-Alum.	50	26 36	29(S) 41(D)	.121	14	Black
LG-0141 LG-0141D	.552	.585	4/0, 6/1 4/0, 7W Alum. Alloy	50	30 40	31(S) 43(D)	.121	15	Red
LG-0142 LG-0142D	.586	.606	266.8, 7W-19W, 37W All-Alum.	50	40 54	31(S) 43(D)	.146	14	Black

Right-hand lay standard

(Continued on next page)

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) Single Support Length (S) and Double Support Length (D) are described on the first page, this section.
- (3) AWAC is a registered trademark of the Copperweld Co.



LINE GUARDS: ALUMINUM

CATALOG NUMBER	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Length (Inches)	Rod Diameter (Inches)	Rods Per Set	Color Code
	Min.	Max.		Per Carton					
LG-0143 LG-0143D	.607	.630	266.8, 18/1 300, 19W-37 All-Alum.	50	42 57	33(S) 45(D)	.146	14	White
LG-0144 LG-0144D	.631	.655	266.8, 19W Alum. Alloy (6201)	50	42 57	33(S) 45(D)	.146	14	Yellow
LG-0145 LG-0145D	.656	.679	336.4, 19W-37W All-Alum.	50	48 62	35(S) 47(D)	.146	15	Brown
LG-0146 LG-0146D	.680	.703	336.4, 18/1 350, 37W All-Alum.	50	48 62	35(S) 47(D)	.146	15	Blue
LG-0147 LG-0147D	.704	.740	336.4, 26/7 19W Alum. Alloy (6201)	50	54 70	37(S) 49(D)	.146	16	Green
LG-0148 LG-0148D	.741	.792	397.5, 18/1 26/7, 24/7	50	60 77	39(S) 51(D)	.146	17	Orange
LG-0149 LG-0149D	.793	.840	477, 18/1 477, 19W-37W All-Alum.	50	64 82	39(S) 51(D)	.146	18	Purple
LG-0150 LG-0150D	.841	.898	477, 24/7, 26/7 30/7	25	36 45	41(S) 53(D)	.146	19	Blue
LG-0151 LG-0151D	.899	.954	556.5, 24/7, 26/7 30/7	25	46 58	43(S) 55(D)	.167	18	Green
LG-0152 LG-0152D	.955	.986	605, 26/7 636, 24/7	25	54 68	45(S) 57(D)	.182	17	White
LG-0153 LG-0153D	.987	1.016	636, 26/7 666.6, 24/7	25	58 72	45(S) 57(D)	.182	18	Yellow
LG-0154 LG-0154D	1.017	1.064	715.5, 24/7 26/7	25	60 74	47(S) 59(D)	.182	18	Brown
LG-0155 LG-0155D	1.065	1.098	874.5, 37W-61W All-Alum.	15	44 55	49(S) 61(D)	.204	17	Green
LG-0156 LG-0156D	1.099	1.153	795, 26/7 30/19	15	58 72	49(S) 61(D)	.250	15	Orange
LG-0157 LG-0157D	1.154	1.208	954, 45/7 54/7	15	62 75	51(S) 63(D)	.250	15	Purple
LG-0158 LG-0158D	1.209	1.268	1192.5, 61W All-Alum.	15	68 82	53(S) 65(D)	.250	16	Black
LG-0159 LG-0159D	1.269	1.327	1113 ACSR 45/7, 1192.5, 45/7	10	48 58	53(S) 65(D)	.250	17	White
LG-0160 LG-0160D	1.328	1.390	1351.5, 61W All-Alum.	10	50 60	55(S) 67(D)	.250	17	Yellow
LG-0161 LG-0161D	1.391	1.440	1431, 45/7	5	36 44	57(S) 69(D)	.310	15	Brown
LG-0162 LG-0162D	1.441	1.508	1431, 54/19	5	40 48	59(S) 71(D)	.310	16	Blue

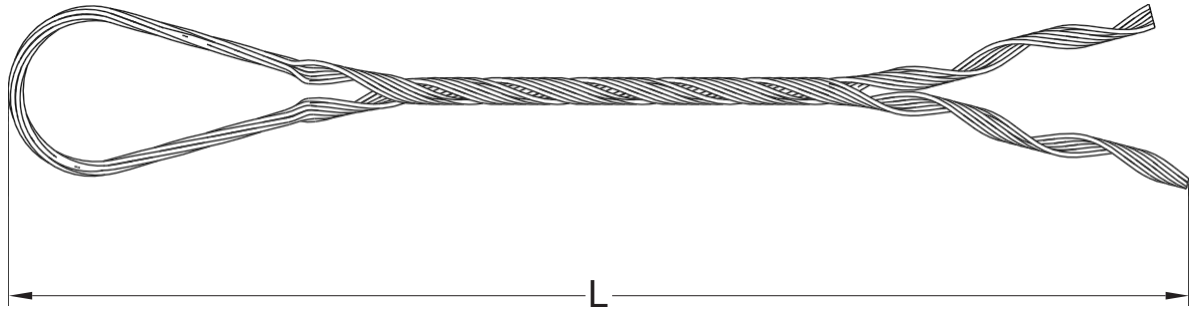
Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) Single Support Length (S) and Double Support Length (D) are described on the first page, this section.
- (3) AWAC is a registered trademark of the Copperweld Co.



GUY DEAD-ENDS: GALVANIZED STEEL



For use on:

Extra High Strength, High Strength, Siemens Martin, Utilities Grade

B-COAT

CATALOG NUMBER	STRAND			UNITS	WT./LBS.	LENGTH (INCHES)	COLOR CODE
	SIZE (INCHES)	CONSTRUCTION	MEAN DIAMETER (INCHES)	PER CARTON			
GG18B	1/8		.125	100	11	13	Green
GG316B	3/16	7W 7W	.186 .195	100	30	20	Red
GG732B	7/32	7W	.216	50	19	24	Green
GG14B	1/4	3W 7W	.259 .240	50	24	25	Yellow
GG932B	9/32	7W	.279	50	26	28	Blue
GG516B	5/16	3W 7W 7W	.312 .312 .327	50	39	31	Black
GG38B	3/8	3W 7W	.356 .360	50	51	35	Orange
GG716B	7/16	7W	.435	25	40	38	Green

C-COAT

CATALOG NUMBER	STRAND			UNITS	WT./LBS.	LENGTH (INCHES)	COLOR CODE
	SIZE (INCHES)	CONSTRUCTION	MEAN DIAMETER (INCHES)	PER CARTON			
GG18C	1/8		.125	100	11	13	Green
GG316C	3/16	7W 7W	.186 .195	100	30	20	Red
GG732C	7/32	7W	.216	50	19	24	Green
GG14C	1/4	3W 7W	.259 .240	50	24	25	Yellow
GG932C	9/32	7W	.279	50	26	28	Blue
GG516C	5/16	3W 7W 7W	.312 .312 .327	50	39	31	Black
GG38C	3/8	3W 7W	.356 .360	50	51	35	Orange
GG716C	7/16	7W	.435	25	40	38	Green

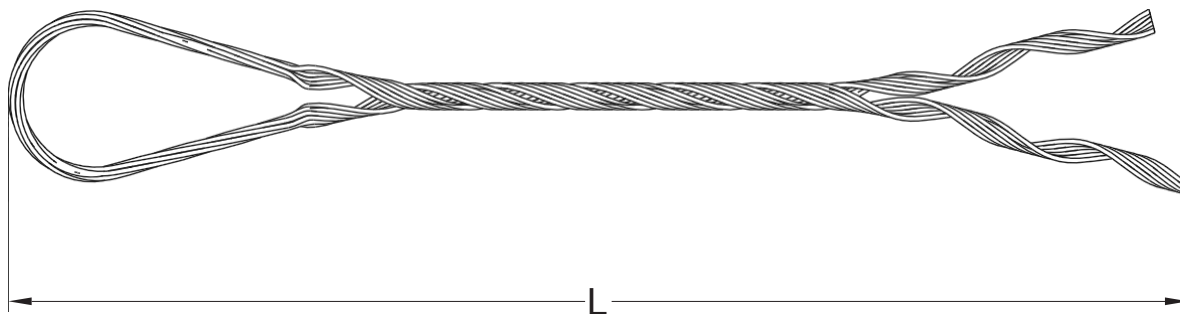
Left-hand lay standard

EXPLANATORY NOTES:

- (1) Big-Grip dead-end is recommended as an alternative product for guying multiple pole structures or metal towers associated with transmission construction.
- (2) Refer to Hardware Considerations for acceptable fittings. Cabled Loop design furnished as standard, all sizes.
- (3) Rated holding strength is 100% of published rating for all grades of galvanized strand.



GUY DEAD-ENDS



For use on:

Aluminum Clad Steel Strand

CATALOG NUMBER	MEAN DIAMETER (INCHES)	NOMINAL STRAND SIZE	UNITS	WT./LBS.	LENGTH (INCHES)	COLOR CODE
			PER CARTON			
AGG312	.174	3 # 12	100	21	18	Orange
AGG4M	.220 .220	4M 3 # 10	50	20	21	Green
AGG6M	.247 .242	3 # 9 6M	50	20	24	Yellow
AGG8M	.277 .272	3 # 8 8M	50	22	24	Blue
AGG10M	.311 .306 .306	3 # 7 10M 5/16" - 7 # 10	50	29	26	Black
AGG11.5M	.330	11.5M	50	30	26	Green
AGG12.5M	.349 .343 .343	3 # 6 12.5M 11/32" - 7 # 9	50	41	29	Yellow
AGG14M	.363	14M	50	53	31	Blue
AGG16M	.392 .385 .386	3 # 5 3/8" - 7 # 8 16M	50	55	32	Orange
AGG18M	.417	18M	25	37	34	Black
AGG716	.433	7/16" - 7 # 7	25	40	36	Green
AGG20M	.444	20M	10	22	37	Yellow
AGG12	.486	1/2" - 7 # 6	10	23	39	Blue
AGG25M	.519	25M	10	31	43	Red
AGG75	.546	7 # 5	10	32	44	Yellow

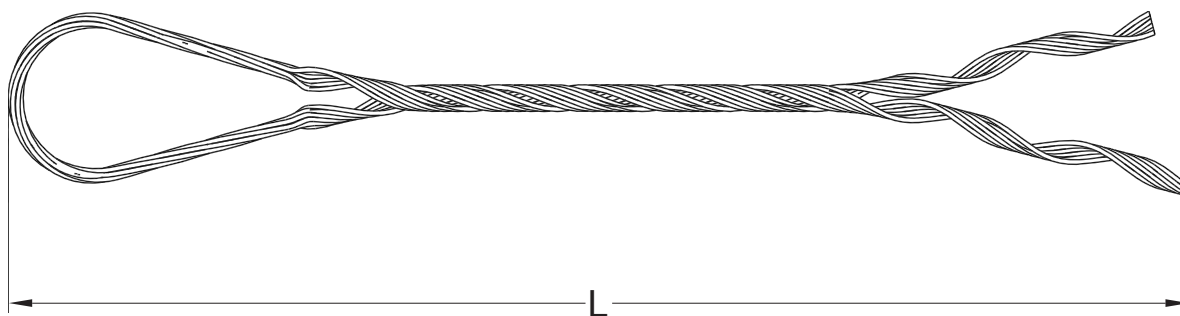
Left-Hand Lay standard

EXPLANATORY NOTES:

- (1) Big-Grip dead-end is recommended as an alternative product for guying multiple pole structures or metal towers associated with transmission construction.
- (2) Refer to Hardware Considerations for acceptable fittings. Cabled Loop design furnished as standard, all sizes.
- (3) Published rating of rated holding strength is 100% of all grades of galvanized strand
- (4) Consult GPP for sizes and stranding not shown.



GUY DEAD-ENDS: COPPERWELD



For use on:
Copperweld Strand

CATALOG NUMBER	MEAN DIAMETER (INCHES)	NOMINAL STRAND SIZE	UNITS	WT./LBS.	LENGTH (INCHES)	COLOR CODE
			PER CARTON			
CDE2.2M	.164	2.2M	100	19	17	Orange
CDE312	.174	3 # 12	100	24	17	Red
CDE4M	.209	4M	100	32	18	White
CDE310	.220	3 # 10	100	44	20	Green
CDE6M	.247 .237	3 # 9 6M	50	24	21	Yellow
CDE6M3	.258	6M3	50	25	22	White
CDE8M	.276 .277	8M 3 # 8	50	26	23	Blue
CDE10M	.303 .306 .311	10M 7 # 10 - 5/16" 3 # 7	50	34	25	Red
CDE12.5M	.343 .345 .349	7 # 9 - 11/32" 12.5M 3 # 6	50	46	27	Green
CDE14M	.360	14M	50	64	30	Blue
CDE16M	.385 .386 .392	7 # 8 - 3/8" 16M 3 # 5	50	65	31	White
CDE18M	.414	18M	25	46	34	Orange
CDE20M	.438 .433	20M 7 # 7 - 7/16"	25	47	35	Yellow
CDE12	.486	7 # 6 - 1/2"	25	65	39	Blue
CDE25M	.525	25M	10	37	43	Green
CDE916	.546	7 # 5 - 9/16"	10	38	44	Yellow

Left-Hand Lay standard

EXPLANATORY NOTES:

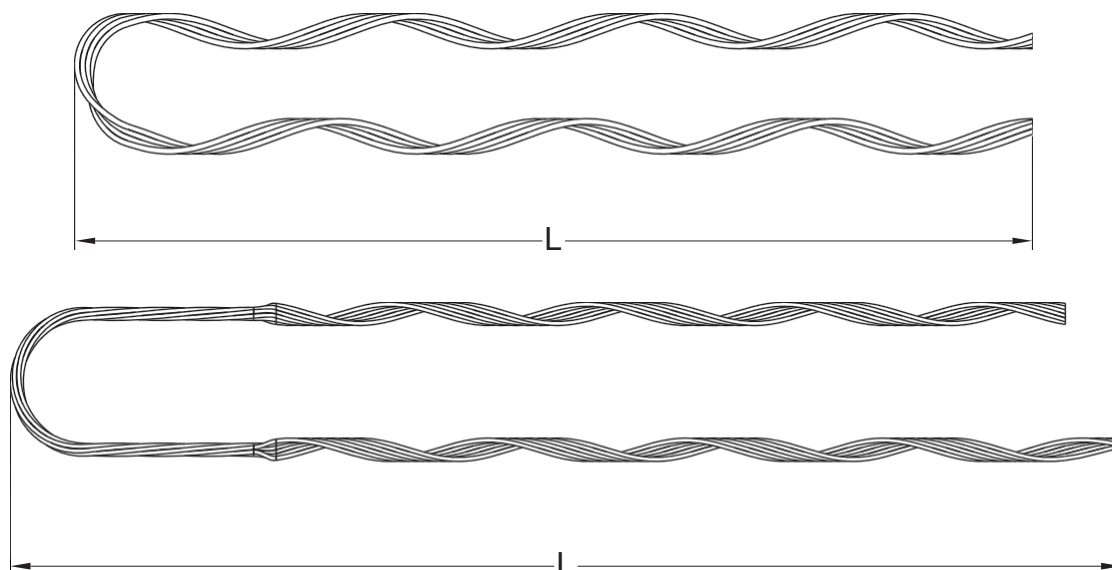
- (1) Big-Grip dead-end is recommended as an alternative product for guying multiple pole structures or metal towers associated with transmission construction.
- (2) Refer to Hardware Considerations for acceptable fittings. Cabled Loop design furnished as standard, all sizes.
- (3) Refer to General Information for material selection.
- (4) Rated holding strength is 100% of the published rating of the strand
- (5) Consult GPP for sizes and stranding not shown.
- (6) Copperweld is a registered trademark of the Copperweld Co.



DISTRIBUTION-GRIP DEAD-ENDS

For use on:

ACSR, All-Aluminum Aluminum Alloy, AWAC® Compacted ACSR



CATALOG NUMBER	DIAMETER RANGE (INCHES)		NOMINAL CONDUCTOR SIZES					UNITS	WT./LBS.	LENGTH (INCHES)	COLOR CODE
	MIN.	MAX.	ACSR	ALL- ALUM.	ALUM. ALLOY	COMP. ACSR	AWAC 6/1	PER CARTON			
DG-6	.182	.203	#6, 6/1	#6, 7W	#6, 7W	#6, 6/1		100	14	16	Blue
DG-4	.229	.257	#4, 6/1 #4, 7/1	#4, 7W	#4, 7W	#4, 6/1	#4	100	20	17	Orange
DG-2	.290	.325	#2, 6/1 #2, 7/1	#2, 7W	#2, 7W	#2, 6/1	#2	100	33	24	Red
DG-1	.326	.364	#1, 6/1	#1, 7W	#1, 7W	#1, 6/1	#1	100	44	26	Green
DG-10	.365	.409	1/0, 6/1	1/0, 7W	1/0, 7W	1/0, 6/1	1/0	50	31	26	Yellow
DG-20	.410	.460	2/0, 6/1	2/0, 7W	2/0, 7W	2/0, 6/1	2/0	50	31	28	Blue
DG-30	.461	.516	3/0, 6/1	3/0, 7W	3/0, 7W	3/0, 6/1	3/0	25	22	32	Orange
DG-40	.517	.577	4/0, 6/1	4/0, 7W	4/0, 7W	4/0, 6/1	4/0	25	32	34	Red
DG-266	.578	.653	266.8, 18/1	266.8, 19W	266.8, 19W	336.4, 18/1	-	25	39	35	Black
DG-336	.654	.739	336.4, 18/1	336.4, 19W	336.4, 19W	397.5, 18/1	-	25	53	39	Green

Right-hand lay standard

EXPLANATORY NOTES:

(1) Nominal conductor size indicates a few of the various conductors within each range. Consult GPP for sizes or strandings not shown.

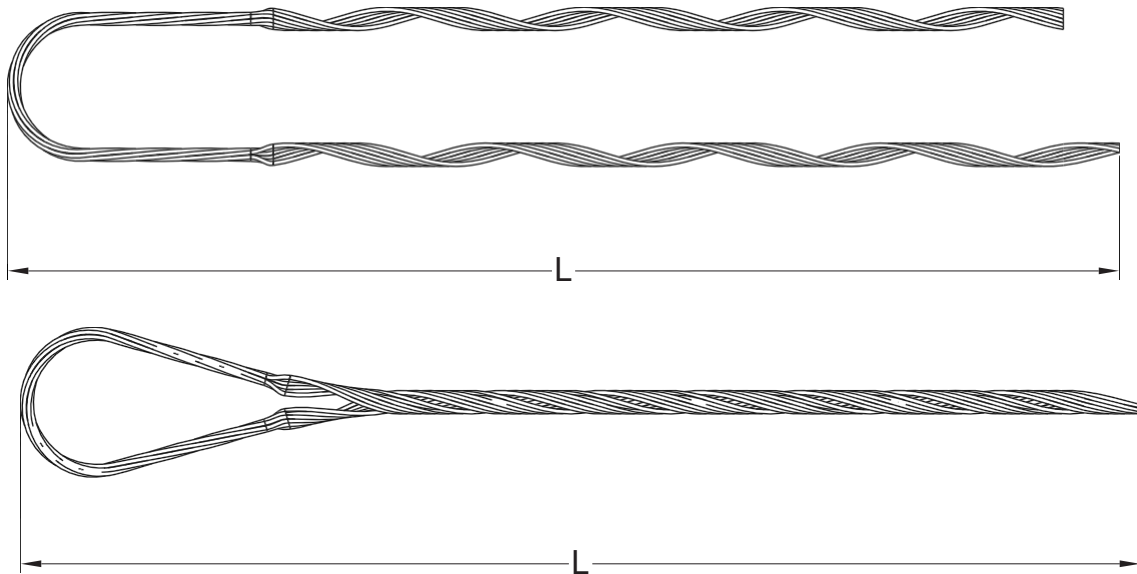
(2) AWAC is a registered trademark of the Copperweld Co.



DISTRIBUTION-GRIP DEAD-ENDS

LARGE SIZES for use on:

ACSR, All-Aluminum Aluminum Alloy, Compacted ACSR Compacted All-Aluminum



CATALOG NUMBER	DIAMETER RANGE (INCHES)		NOMINAL SIZES				UNITS	WT./LBS.	LENGTH (INCHES)	COLOR CODE
	MIN.	MAX.	ACSR	ALL- ALUMINUM	ALUMINUM ALLOY	COMPACTED	PER CARTON			
DG-477	.740	.837	397.5, 18/1 477, 36/1 477, 18/1	450, 19W 477, 19W 500, 37W	397.5, 19W	477, 18/1 556, 19W	10	43	50	Orange
DG-636	.838	.947	556.5, 36/1 605, 36/1 636, 18/1	556.5, 37W 636, 37W 650, 61W	477, 19W 556.5, 19W	636, 18/1 795, 19W	10	50	55	Blue
DG-795	.948	1.071	666.6, 36/1 715.5, 36/1 795, 36/1	715.5, 37W 750, 61W 795, 61W	636, 37W	874.5, 37W 954, 37W	10	67	62	Brown
DG-954	1.072	1.212	874.5, 36/1 954, 36/1 1033.5, 36/1	874.5, 61W 954, 61W 1033.5, 61W	795, 37W	–	5	48	70	Orange

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Distribution-Grip dead-ends, manufactured of aluminum covered steel, are designed to meet the requirements of primaries and sub-station feeders.
- (2) Nominal conductor size indicates a few of the various conductors within each range. Consult GPP for sizes or strandings not shown.
- (3) For quantities less than 25 pieces, consult GPP.

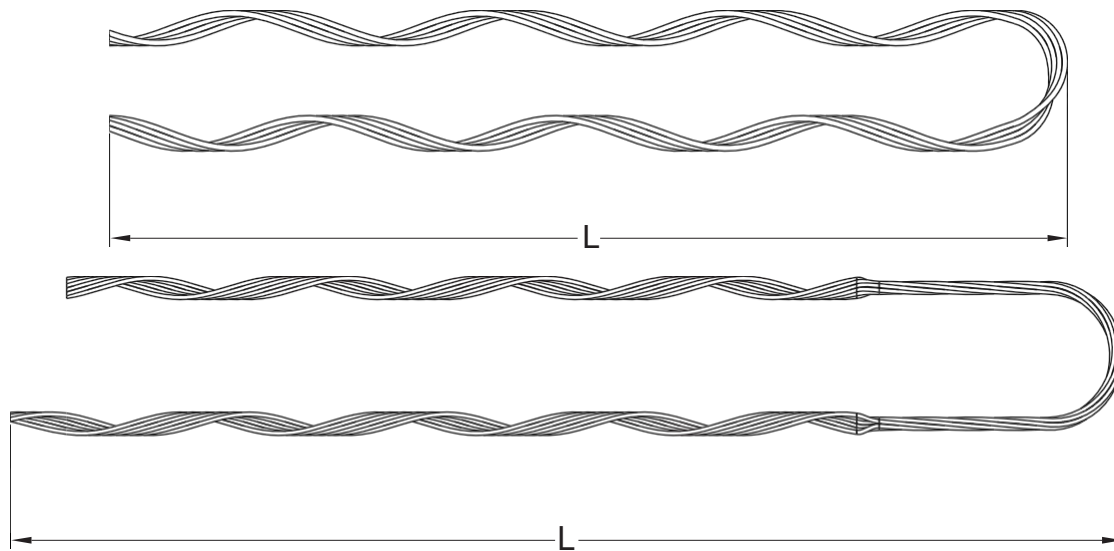


DISTRIBUTION-GRIP DEAD-ENDS

(GALVANIZED STEEL)

For use on:

Plastic Jacketed Conductors, Polyethylene, Neoprene, Vinyl, Rubber



CATALOG NUMBER	DIAMETER RANGE (INCHES)		NOMINAL CONDUCTOR SIZE	UNITS	WT./LBS.	LENGTH (INCHES)	COLOR CODE
	MIN.	MAX.					
DGP-2510	.229	.257	#6, 7W, 2/64s #6, Solid, 3/64s	100	20	18	Orange
DGP-2511	.258	.289	#4, Solid, 2/64s #6, 7W, 3/64s	100	35	21	Yellow
DGP-2512	.290	.325	#6, 7W, 4/64s #4, 7W, 2/64s	100	40	26	Red
DGP-2513	.326	.364	#4, 7W, 3/64s #4, 7W, 4/64s	100	60	27	Green
DGP-2514	.365	.409	#2, 7W, 3/64s #4, 7W, 5/64s	100	60	27	Yellow
DGP-2515	.410	.460	#2, 7W, 5/64s #2, 7W, 4/64s	50	45	29	Blue
DGP-2516	.461	.516	#1, 19W, 5/64s 1/0, 7W, 4/64s	50	45	31	Orange
DGP-2517	.517	.577	1/0, 19W, 5/64s 1/0, 19W, 6/64s	50	65	34	Purple

(Continued on next page)

Conductor may be right-hand lay or left-hand lay

EXPLANATORY NOTES:

- (1) Nominal conductor size indicates one of various combinations of conductor sizes and jacket thickness within each range.
- (2) Rated holding strengths for all sizes are not practical to publish, due to the multiple combinations of conductor, jacket thickness and type. As a general guide, Distribution Grip dead-ends are expected to approximate the typical test results for coated dead-ends.



DISTRIBUTION-GRIP DEAD-ENDS

(GALVANIZED STEEL)

CATALOG NUMBER	DIAMETER RANGE (INCHES)		NOMINAL CONDUCTOR SIZE	UNITS	WT./LBS.	LENGTH (INCHES)	COLOR CODE
	MIN.	MAX.		PER CARTON			
DGP-2100	.578	.653	3/0, 7W, 4/64s 4/0, 7W, 4/64s	25	45	35	Blue
DGP-2101	.654	.739	250, 19W, 4/64s 266.8, 19W, 4/64s	25	60	38	Red
DGP-2102	.740	.837	300, 19W, 5/64s 336.4, 19W, 8/64s	10	40	40	Brown
DGP-2103	.838	.947	336.4, 19W, 8/64s 397.5, 19W, 6/64s	10	45	40	Green
DGP-2104	.948	1.071	477, 37W, 5/64s 500, 37W, 8/64s	10	50	40	Black
DGP-2105	1.072	1.212	350, 19W, 12/64s 500, 37W, 12/64s	10	70	40	Purple

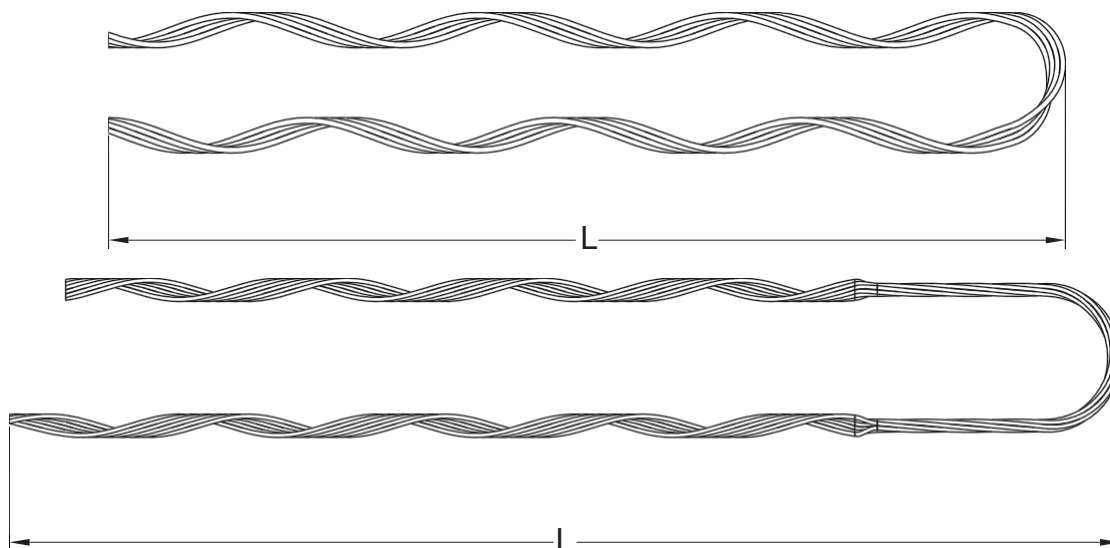
Conductor may be right-hand lay or left-hand lay.

EXPLANATORY NOTES:

- (1) Nominal conductor size indicates one of various combinations of conductor sizes and jacket thickness within each range.
- (2) Rated holding strengths for all sizes are not practical to publish, due to the multiple combinations of conductor, jacket thickness and type. As a general guide, Distribution Grip dead-ends are expected to approximate the typical test results for coated dead-ends.



OVERHEAD DEAD-ENDS



For use on:

ACSR, Aluminum Alloy

All Aluminum, AWAC (6/1)

Compacted ACSR

CATALOG NUMBER	CONDUCTOR (INCHES)		PER CARTON		LENGTH (INCHES)	COLOR CODE
	RANGE	NOMINAL SIZE	UNITS	WT./LBS.		
OHDE4	.229-.257	#4	100	31	24	Orange
OHDE2	.290-.325	#2	100	59	30	Red
OHDE1	.326-.364	#1	75	60	34	Green
OHDE10	.365-.409	1/0	50	47	38	Yellow
OHDE20	.410-.460	2/0	50	60	38	Blue
OHDE30	.461-.516	3/0	50	71	45	Orange
OHDE40	.517-.577	4/0	25	57	52	Red

Right-hand lay standard

EXPLANATORY NOTES:

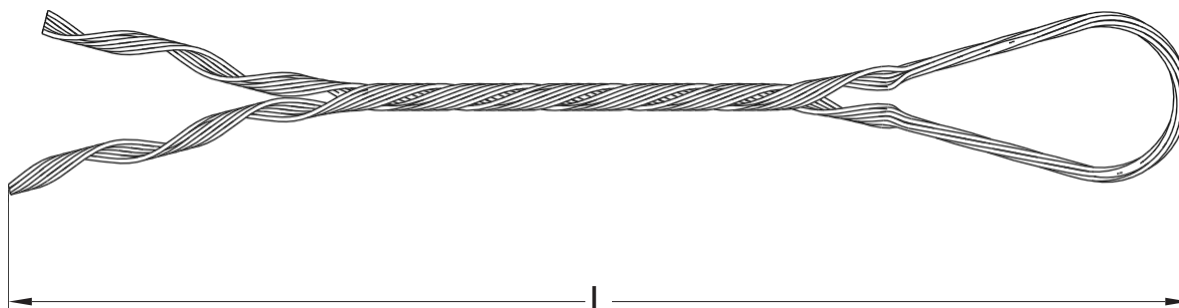
- (1) Nominal conductor size indicates one of various combinations of conductor sizes and jacket thickness within each range.
- (2) When in doubt about dimensions, fittings, installations, or unusual applications, consult GPP.



COATED DEAD-ENDS

For use on:

Plastic Jacketed Conductors Polyethylene, Neoprene Vinyl, Rubber



CATALOG NUMBER	DIAMETER RANGE (INCHES)		NOMINAL CONDUCTOR SIZE	UNITS	WT./LBS.	LENGTH (INCHES)	COLOR CODE
	MIN.	MAX.	AWG or MCM	PER CARTON			
CDG-0500	.243	.253	#6, 7W, 2/64s	100	13	16	Green
CDG-0501	.254	.264	#6, Solid, 3/64s #6, 6/1, 2/64s	100	14	17	Red
CDG-0502	.265	.272	#4, Solid, 2/64s	100	14	17	Blue
CDG-0503	.273	.284	#6, 7W, 3/64s	100	14	18	Orange
CDG-0100	.285	.297	#6, 6/1, 3/64s #4, 7W, 2/64s	100	15	19	Black
CDG-0101	.298	.310	#4, Solid, 3/64s #6, 7W, 4/64s	100	17	19	Yellow
CDG-0102	.311	.323	#4, 7W, 2/64s Al. Alloy #4, 6/1, 2/64s	100	18	20	Blue
CDG-0103	.324	.338	#6, 7W, 4/64s, Al. Alloy #4, 7W, 3/64s	100	18	20	Orange
CDG-0104	.339	.354	#4, 7W, 3/64s, Al. Alloy #4, 6/1, 3/64s	100	20	21	Black
CDG-0105	.355	.374	#4, 7W, 4/64s	100	20	22	Yellow
CDG-0106	.375	.397	#4, 7W, 4/64s #4, 7W, 5/64s	100	25	23	Red
CDG-0107	.398	.420	#2, 6/1, 3/64s #2, 7/1, 3/64s	100	26	24	Green
CDG-0108	.421	.445	#2, 7W, 4/64s, Al. Alloy #1, 7W, 3/64s	50	20	27	Black
CDG-0109	.446	.475	#1, 7W, 4/64s #4, 7W, 8/64s	50	22	28	Orange

Conductor may be right-hand lay or left-hand lay.

EXPLANATORY NOTES:

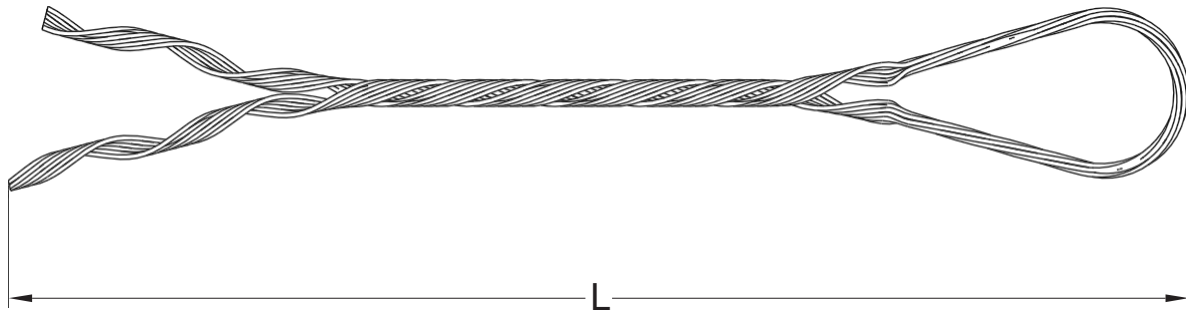
- (1) Nominal conductor size indicates one of various combinations of conductor sizes and jacket thickness within each range.
- (2) Holding strength values for representative sizes appear on the reverse side of this page.



COATED DEAD-ENDS

For use on:

Plastic Jacketed Conductors Polyethylene, Neoprene Vinyl, Rubber



CATALOG NUMBER	SIZE	JACKETING	OUTSIDE DIAMETER (INCHES)	SUSTAINED LOAD TEST RESULTS (LBS.)	PERCENT OF BREAKING STRENGTH
CDG-0500	#6, 7W, 2/64s	Poly.*	.246	450	89%
CDG-0100	#4, 7W, 2/64s	Poly.*	.294	750	95%
CDG-0102	#4, 6/1, 2/64s	Poly.*	.313	800	46%
	#4, 7/1, 2/64s	Poly. (.929)	.320	850	39%
CDG-0103	#4, 7W, 3/64s	Neoprene	.326	800	108%
CDG-0104	#4, 6/1, 3/64s	Neoprene	.344	750	43%
CDG-0106	#2, 7W, 3/64s	Neoprene	.386	600	52%
	#2, 7W, 3/64s	Poly.*	.386	750	62%
CDG-0107	#2, 6/1, 3/64s	Poly.*	.410	900	34%
	#2, 6/1, 3/64s	Neoprene	.410	900	34%
	#2, 7/1, 3/64s	Poly.*	.419	1,200	35%
	#2, 7/1, 3/64s	Neoprene	.419	1,000	30%

* Low density or medium density polyethylene per ASTM D-1243-58T.

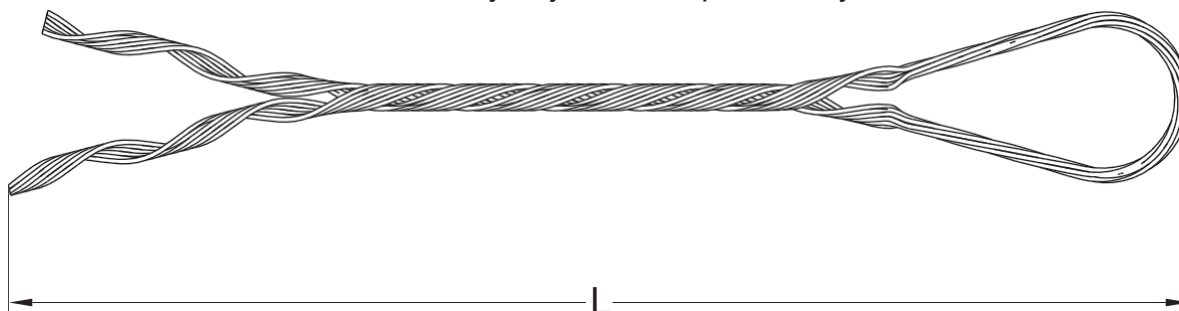
This table is based on actual results of long term sustained load tests and may be considered representative of the cables described. Refer earlier in this section for an explanation of the multiple factors affecting holding strength of Dead-end: Coated.



COATED DEAD-ENDS

For use on:

Plastic Jacketed Conductors Polyethylene, Neoprene Vinyl, Rubber



CATALOG NUMBER	DIAMETER RANGE (INCHES)		NOMINAL CONDUCTOR SIZE	UNITS	WT./LBS.	LENGTH (INCHES)	COLOR CODE
	MIN.	MAX.					
CDG-0110	.476	.507	#1, 19W, 5/64s 1/0, 7W, 4/64s	50	30	30	Blue
CDG-0111	.508	.536	1/0, 19W, 6/64s 1/0, 19W, 5/64s	50	29	30	Red
CDG-0112	.537	.571	2/0, 7W, 4/64s 2/0, 19W, 6/64s, Comp.	50	34	31	Black
CDG-0113	.572	.608	3/0, 19W, 4/64s 2/0, 19W, 5/64s	50	36	33	Yellow
CDG-0114	.609	.648	1/0, 7W, 8/64s 4/0, 7W, 4/64s	25	24	33	Red
CDG-0115	.649	.690	1/0, 7W, 10/64s 4/0, 19W, 4/64s	25	26	34	Green
CDG-0116	.691	.735	250, 19W, 4/64s 266.8, 18/1, 4/64s	25	30	35	Black
CDG-0117	.736	.783	3/0, 7W, 10/64s	25	32	36	Orange
CDG-0118	.784	.834	300, 19W, 5/64s 336.4, 19W, 5/64s	25	34	38	Blue
CDG-0119	.835	.888	350, 19W, 5/64s 300, 19W, 10/64s Comp.	25	40	40	Black
CDG-0120	.889	.945	250, 19W, 10/64s 300, 19W, 10/64s	25	44	42	Yellow
CDG-0121	.946	1.005	450, 37W, 6/64s 500, 37W, 6/64s	25	52	44	Green
CDG-0122	1.006	1.070	450, 37W, 8/64s 336.4, 19W, 12/64s	10	24	45	Red
CDG-0123	1.071	1.138	350, 19W, 12/64s 500, 37W, 10/64s	10	24	47	Blue
CDG-0124	1.139	1.212	636, 37W, 10/64s Comp. 500, 37W, 12/64s	10	30	48	Orange
CDG-0125	1.213	1.288	795, 61W, 6/64s 795, 37W, 10/64s Comp.	10	30	49	Black
CDG-0126	1.289	1.372	1033.5, 61W, 6/64s	10	32	51	Yellow
CDG-0127	1.373	1.458	715, 37W, 14/64s	10	38	53	Green
CDG-0128	1.459	1.550	795, 37W, 14/64s	10	40	56	Red

Right-hand or left-hand lay standard

EXPLANATORY NOTES:

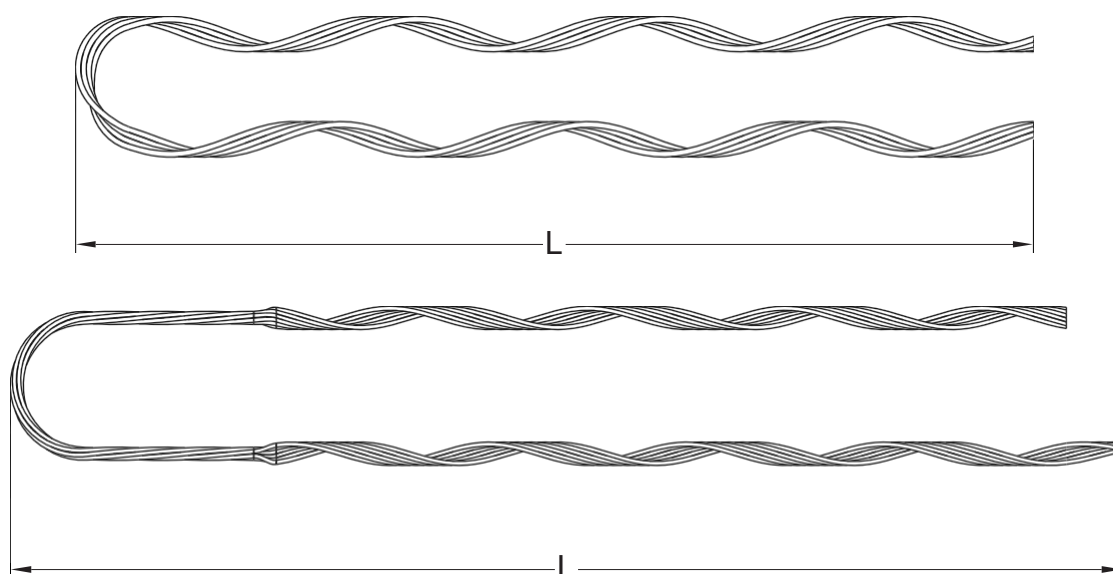
- (1) Nominal conductor size indicates one of various combinations of conductor sizes and jacket thickness within each range.
- (2) Cabled loop design furnished for all sizes on this page. See reference chart in this section for acceptable fittings.
- (3) Holding strength values for representative sizes appear on the reverse side of this page.



SERVICE-GRIP DEAD-ENDS

For use on:

ACSR, All-Aluminum Aluminum Alloy, Compacted ACSR Compacted All-Aluminum



CATALOG NUMBER	DIAMETER RANGE (INCHES)		NOMINAL CONDUCTOR SIZES				UNITS	WT./LBS.	LENGTH (INCHES)	COLOR CODE	MAX. NECK DIA. (INCHES)
	MIN.	MAX.	ACSR	ALL- ALUM.	ALUM. ALLOY	COMP.	PER CARTON				
SG-6	.169	.198	#6, 6/1	#6, 7W	#6, 7W	#6, 6/1 #6, 7W	300	24	11	Blue	2-3/8
SG-5	.199	.224	#5, 6/1	#4, Solid	#5, 7W	#4, 7W	300	27	12	White	2-3/8
SG-4	.225	.257	#4, 6/1 #4, 7/1	#4, 7W	#4, 7W	#4, 6/1 #4, 7/1	300	29	13	Orange	2-3/8
SG-3	.258	.289	#3, 6/1	#3, 7W #2, Solid	#3, 7W	#3, 6/1 #2, 7W	200	27	14	Black	2-5/8
SG-2	.290	.325	#2, 6/1 #2, 7/1	#2, 7W	#2, 7W	#2, 6/1 #1, 7W	200	28	15	Red	2-5/8
SG-1	.326	.360	#1, 6/1	#1, 7W	#1, 7W	#1, 6/1 1/0, 7W	200	31	17	Green	2-5/8
SG-10	.361	.400	1/0, 6/1	1/0, 7W	1/0, 7W	1/0, 6/1 2/0, 7W	100	28	19	Yellow	2-7/8
SG-20	.401	.450	2/0, 6/1	2/0, 7W	2/0, 7W	2/0, 6/1 3/0, 7W	100	31	21	Blue	2-7/8
SG-30	.451	.510	3/0, 6/1	3/0, 7W	3/0, 7W	4/0, 7W	100	33	23	Orange	2-7/8
SG-40	.511	.580	4/0, 6/1 4/0, 18/1	4/0, 7W	4/0, 7W	4/0, 6/1	100	37	26	Red	3

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal conductor size indicates a few of the various conductors within each range. Refer to the following page for additional conductor sizes interchangeable with the same dead-end. Consult GPP for sizes or strandings not shown.
- (2) Refer earlier in this section for acceptable fittings.
- (3) Rated Holding Strengths are listed on the following page.



HELICAL SUSPENSION UNITS

For use on:

ACSR, All-Aluminum, Aluminum Alloy,
Compacted ACSR, ACSS (AW & TW)
for Continuous Operating Temperatures
up to 200° C



CATALOG NUMBER	DIAMETER RANGE (INCHES)		NOMINAL CONDUCTOR SIZE	HSU RODS				HSU HARDWARE	HSU RODS & HARDWARE WT./LBS. PER CARTON	COLO COD
	MIN.	MAX.		LENGTH (INCHES)	ROD DIAMETER (INCHES)	RODS PER SET	SETS PER CARTON	SETS PER CARTON		
HSU315	.304	.315	#4, 3/4AWAC	26	.102	10	24	24	55	Brown
HSU327	.316	.327	#2, 6/1	26	.102	11	24	24	56	Red
HSU342	.328	.342	#4, 2/5AWAC	26	.102	11	24	24	57	Orange
HSU355	.343	.355	#3, 3/4AWAC	26	.102	11	24	24	58	Black
HSU374	.356	.374	#1, 5/2AWAC	26	.102	12	24	24	59	Green
HSU389	.375	.389	#3, 2/5AWAC	26	.102	12	24	24	59	Purple
HSU404	.390	.404	1/0, 6/1	36	.128	11	24	24	79	Yellow
HSU418	.405	.418	1/0, 5/2AWAC	36	.128	11	24	24	79	Brown
HSU434	.419	.434	#1, 3/4AWAC	36	.128	11	24	24	79	Green
HSU450	.435	.450	2/0, 6/1	36	.128	11	24	24	79	Blue
HSU470	.451	.470	2/0, 5/2AWAC	36	.128	12	24	24	83	White
HSU481	.471	.481	110.8, 12/7	36	.128	12	24	24	83	Green
HSU499	.482	.499	#1, 2/5AWAC	40	.167	10	18	18	44	Red
HSU512	.500	.512	3/0, 6/1	40	.167	10	18	18	44	Blue
HSU530	.513	.530	4/0, 7W All-Alum.	41	.167	11	18	18	47	Green
HSU542	.531	.542	159, 12/7AWAC	41	.167	11	18	18	47	Yellow
HSU555	.543	.555	2/0, 3/4AWAC	44	.182	10	18	18	53	Black
HSU573	.556	.573	4/0, 6/1	44	.182	11	18	18	55	White
HSU594	.574	.594	266.8, 7-19W All-Alum.	45	.182	11	18	18	56	Brown
HSU606	.595	.606	266.8, 18/1AWAC	46	.182	11	18	18	53	Orange
HSU619	.607	.619	266.8, 18/1	46	.182	11	18	18	56	Purple
HSU645	.620	.645	266.8, 26/7	50	.182	12	18	18	61	Red
HSU673	.646	.673	336.4, 17-37W All-Alum.	54	.204	11	15	15	60	Blue

(Continued on next page)

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal Conductor Size indicates one of various conductors within each range.
- (2) Reference general dimensional information for physical dimensions other than length.



HELICAL SUSPENSION UNITS

CATALOG NUMBER	DIAMETER RANGE (INCHES)		NOMINAL CONDUCTOR SIZE	HSU RODS				HSU HARDWARE	HSU RODS & HARDWARE WT./LBS. PER CARTON	COLOR CODE
	MIN.	MAX.		LENGTH (INCHES)	ROD DIAMETER (INCHES)	RODS PER SET	SETS PER CARTON	SETS PER CARTON		
HSU690	.674	.690	300, 26/7	54	.204	11	15	15	61	Green
HSU710	.691	.710	300, 30/7	54	.204	12	15	15	64	Yellow
HSU731	.711	.731	336.4, 26/7	55	.204	12	15	15	65	Black
HSU750	.732	.750	336.4, 30/7	56	.204	12	15	15	66	White
HSU768	.751	.768	397.5, 26/7AWAC	60	.250	10	12	12	68	Brown
HSU795	.769	.795	397.5, 26/7	60	.250	11	12	12	68	Orange
HSU824	.796	.824	477, 18/1	61	.250	11	12	12	73	Purple
HSU845	.825	.845	477, 26/7AWAC	64	.250	11	12	12	76	Red
HSU870	.846	.870	477, 26/7	64	.250	11	12	12	76	Blue
HSU893	.871	.893	600, 37W All-Alum.	65	.250	12	12	12	81	Green
HSU907	.894	.907	500, 30/7	65	.250	12	12	12	82	Green
HSU920	.908	.920	556.5, 24/7	66	.250	12	12	9	81	Yellow
HSU937	.921	.937	556.5, 26/7	66	.250	12	9	9	81	Black
HSU962	.938	.962	605, 24/7	67	.250	12	9	9	81	White
HSU986	.963	.986	636, 24/7	68	.250	13	9	9	87	Brown
HSU1005	.987	1.005	636, 26/7	69	.250	13	9	9	87	Orange
HSU1022	1.006	1.022	636, 30/19	80	.310	11	6	6	73	Purple
HSU1040	1.023	1.040	795, 37-61W All-Alum.	82	.310	11	6	6	75	Red
HSU1074	1.041	1.074	715.5, 26/7	82	.310	11	6	6	75	Blue
HSU1090	1.075	1.090	874.5, 37W	82	.310	12	6	6	78	Green
HSU1118	1.091	1.118	795, 26/7	82	.310	12	6	6	78	Yellow
HSU1136	1.119	1.136	954, 37W All-Alum.	82	.310	12	6	6	78	Black

(Continued on next page)

Right-hand lay standard
EXPLANATORY NOTES:

- (1) Nominal Conductor Size indicates one of various conductors within each range.
- (2) Reference general dimensional information for physical dimensions other than length.



HELICAL SUSPENSION UNITS

For use on:

ACSR, All-Aluminum, Aluminum Alloy,
Compacted ACSR, ACSS (AW & TW)
for Continuous Operating Temperatures
up to 200° C



Catalog Number	Diameter Range (Inches) Min. Max.		Nominal Conductor Size	HSU Rods				HSU Hardware Sets Per Carton	HSU Rods & Hardware Wt./lbs. Per Carton	Color Code
				Length (Inches)	Rod Diameter (Inches)	Rods Per Set	Sets Per Carton			
HSU1152	1.137	1.152	795, 30/19	82	.310	12	6	6	78	White
HSU1175	1.153	1.175	954, 45/7	82	.310	12	6	6	79	Brown
HSU1208	1.176	1.208	954, 54/7	82	.310	12	6	6	79	Orange
HSU1226	1.209	1.226	1113, 61W	88	.365	11	3	3	55	Purple
HSU1259	1.227	1.259	1192.5, 61W All-Alum.	88	.365	11	3	3	55	Red
HSU1286	1.260	1.286	1113, 48/7	88	.365	12	3	3	58	Blue
HSU1314	1.287	1.314	1272, 61W	88	.365	12	3	3	58	Green
HSU1355	1.315	1.355	1272, 45/7	88	.365	12	3	3	58	Yellow
HSU1394	1.356	1.394	1272, 54/19	88	.365	12	3	3	60	Black
HSU1416	1.395	1.416	1351.5, 54/19 AWAC	88	.365	13	3	3	61	White
HSU1442	1.417	1.442	1510, 5, 61W	88	.365	13	3	3	62	Brown
HSU1477	1.443	1.477	1431, 54/19	88	.365	13	3	3	64	Orange
HSU1516	1.478	1.516	1590, 45/7	88	.365	13	3	3	64	Purple
HSU1557	1.517	1.557	1590, 54/19	88	.365	13	3	3	64	Red
HSU1579	1.558	1.579	1780, 72/7	100	.365	14	3	3	78	Blue
HSU1612	1.580	1.612	1780, 84/19	100	.365	14	3	3	78	Green
HSU1650	1.613	1.650	2000, 91W	100	.365	14	3	3	79	Yellow
HSU1688	1.651	1.688	2000, 72/7	100	.365	15	3	3	83	Black
HSU1711	1.689	1.711	2000, 84/19	100	.365	15	3	3	83	White
HSU1752	1.712	1.752	2129, 84/19	100	.365	15	3	3	83	Brown
HSU1790	1.753	1.790	2156, 84/19	100	.365	15	3	3	83	Orange
HSU1828	1.791	1.828	2300, 84/19	100	.365	15	3	3	83	Purple
HSU1882	1.829	1.882	2515MCM76/19	100	.365	16	3	3	85	Red
HSU2233	2.193	2.233		100	.365	18	3	3	88	Red

Right-hand lay standard

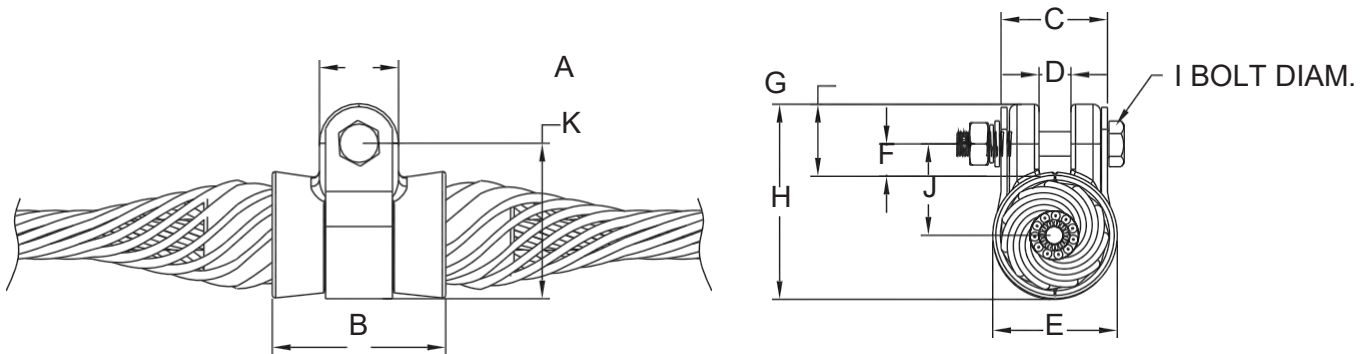
EXPLANATORY NOTES:

- (1) Nominal Conductor Size indicates one of various conductors within each range.
- (2) Reference general dimensional information for physical dimensions other than length.



HELICAL SUSPENSION UNIT FITTINGS

DIMENSIONAL TABLES



CATALOG NUMBER	CONDUCTOR RANGE (INCHES)		DIMENSION(INCHES)											VERTICAL ULTIMATE STRENGTH (POUNDS)
	MIN	MAX.	A	B	C	D	E	F	G	H	I	J	K	
HOU-60	.304	.389	1-3/4	2-1/4	1-1/4	11/16	2-1/16	1-5/32	2-1/32	4-3/32	5/8	2-1/32	3-7/32	15,000
HOU-66	.390	.481	1-3/4	2-1/2	1-5/16	11/16	2-1/4	1-3/32	1-31/32	4-3/32	5/8	2-3/32	3-7/32	15,000
HOU-80	.482	.542	1-5/8	3	2-3/32	21/32	2-13/32	1	1-13/16	4	5/8	1-31/32	3-3/16	10,000
HOU-90	.543	.645	1-3/4	3-1/2	2-5/32	23/32	2-5/8	1-1/32	1-29/32	4-3/16	5/8	1-15/16	3-1/4	10,000
HOU-95	.646	.750	1-3/4	3-3/4	2-1/4	3/4	2-13/16	1	1-7/8	4-7/16	5/8	2-5/32	3-9/16	15,000
HOU-114	.751	.907	2	4-17/32	2-11/16	7/8	3-5/16	1	2	5	5/8	2-11/32	4	20,000
HOU-125	.908	1.005	2	5	2-15/16	7/8	3-11/16	1	2	5-3/8	5/8	2-17/32	4-3/8	20,000
HOU-135	1.006	1.208	2-1/4	5-1/2	3-1/2	1-3/16	4-5/32	1	2-1/8	5-29/32	5/8	2-45/64	4-25/32	25,000
HOU-155	1.209	1.355	2-1/4	6	3-5/8	1-1/4	4-13/16	1-1/4	2-3/8	6-11/16	3/4	3-5/32	5-9/16	25,000
HOU-165	1.356	1.557	2-1/4	6-1/2	4-1/8	1-3/8	5-1/16	1-1/8	2-1/4	6-5/8	3/4	2-31/32	5-1/2	25,000
HOU-180	1.558	1.882	2-1/2	7	4-11/16	2-1/4	5-19/32	1-1/8	2-3/8	7-1/4	3/4	3-3/16	6	25,000
HOU-190	1.883	2.233	2-1/2	7-1/2	5-7/32	2-13/32	6-1/16	1-3/16	2-7/16	7-25/32	3/4	3-1/2	6-17/32	30,000(2)

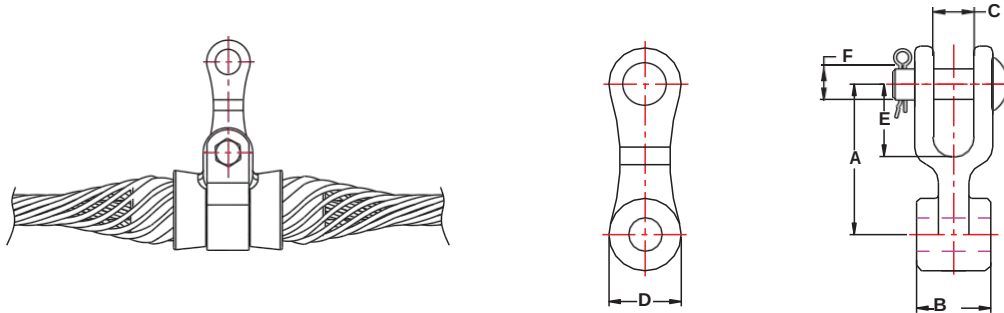
EXPLANATORY NOTE:

(1) HSU Rod length and diameter for individual sizes can be taken from the catalog number tables.



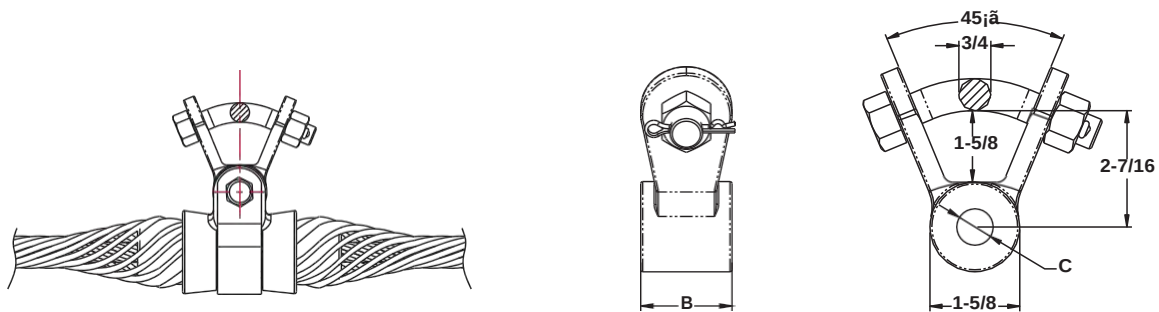
HELICAL SUSPENSION UNIT FITTINGS

HSU CLEVIS EYE*



CATALOG NUMBER	CONDUCTOR DIA. RANGE (INCHES)		GENERAL DIMENSIONS							VERTICAL ULTIMATE STRENGTH (POUNDS)	WT. PER 100 UNITS (POUNDS)
	MIN.	MAX.	A IN.	B IN.	C IN.	D IN.	E IN.	F IN.	G IN.		
CE-5259	.272	.750	3-1/8	1/2	11/16	1-1/2	1-1/2	5/8	13/16	15,000	104
CE-5261	.751	1.005	3-1/8	3/4	11/16	1-1/2	1-1/2	5/8	13/16	20,000	104
CE-5105	1.006	1.557	3-1/8	1-1/16	13/16	1-1/2	1-1/2	5/8	13/16	25,000	178
CE-5106	1.558	2.233	3-1/8	2-1/8	13/16	1-1/2	1-1/2	5/8	13/16	25,000	178

HSU Y CLEVIS EYE*



CATALOG NUMBER	CONDUCTOR DIA. RANGE (INCHES)		GENERAL DIMENSIONS		VERTICAL ULTIMATE STRENGTH (POUNDS)
	MIN.	MAX.	B IN.	C IN.	
YC-5206	.272	.750	5/8	11/16	15,000
YC-5207	.751	1.005	3/4	11/16	20,000
YC-5209	1.006	1.557	1-1/16	13/16	25,000
YC-5211	1.558	2.233	2-1/8	13/16	25,000

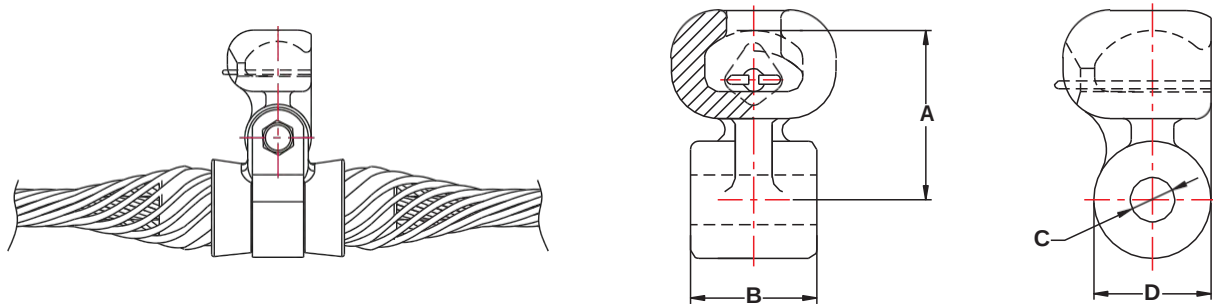
EXPLANATORY NOTE:

*When ordered, HSU FITTINGS will be packed separately from the standard Helical Suspension Unit.



HELICAL SUSPENSION UNIT FITTINGS

HSUSOCKETEYE*



CATALOG NUMBER	CONDUCTOR DIA. RANGE		GENERAL DIMENSIONS				VERTICAL ULTIMATE STRENGTH (POUNDS)	WT. PER 100 UNITS POUNDS
	MIN	MAX	A IN	B IN	C IN	D IN		
SE-5150	.272	.750	2-5/16	1/2	11/16	1-1/2	15,000	165
SE-5152	.751	1.005	2-5/16	3/4	11/16	1-1/2	20,000	165
SE-5154	1.006	1.557	2-5/16	1-1/16	13/16	1-1/2	25,000	178
SE-5155	1.558	2.233	2-5/16	2-1/8	13/16	1-1/2	30,000	178

EXPLANATORY NOTE:

*When ordered, HSU FITTINGS will be packed separately from the standard Helical Suspension Unit.



DISTRIBUTION TIES

For use on:

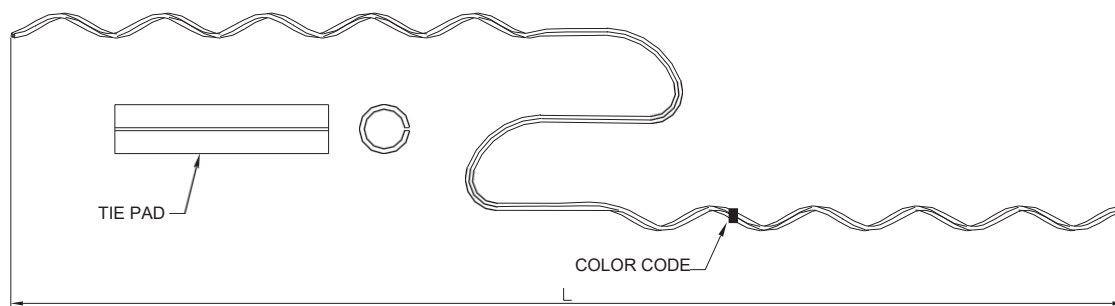
ACSR, Compacted ACSR, Aluminum Alloy, All-Aluminum, AWAC®

Compacted All-Aluminum C-Neck Interchangeable Headstyle Insulators

ANSI 55-2 Pin

2-1/4" Neck Diameter

ANSI 55-3 Pin



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 2)								
UTC6	.190	.215	#6, 6/1 – #4, 7W Comp.	100	17	24	Black	Blue
UTC4A	.216	.244	#4, 7W All Alum. – #4, 6/1, 7/1 Comp.	100	18	25	Black	Brown
UTC4	.245	.277	#4, 6/1, 7/1 – #4, 7W Alum. Alloy	100	18	26	Black	Orange
UTC3	.278	.315	#3, 7W Alum. Alloy – #2, 7W All Alum.	100	18	26	Black	Purple
UTC2	.316	.357	#2, 6/1, 7/1 – #2, 7W Alum. Alloy #1, 6/1	100	19	28	Black	Red
UTC10	.358	.405	1/0, 7W All Alum. 1/0, 6/1 1/0, 7W Alum. Alloy	100	20	30	Black	Yellow
UTC20	.406	.459	2/0, 7W All Alum. 2/0, 6/1 2/0, 7W Alum. Alloy	50	17	25	Black	Blue
UTC30	.460	.520	3/0, 7W All Alum. 3/0, 6/1 3/0, 7W Alum. Alloy	50	17	25	Black	Orange
UTC40	.521	.588	4/0, 7W All Alum. 4/0, 6/1 4/0, 7W Alum. Alloy	50	18	28	Black	Red
UTC266	.589	.665	266.8, 37W All Alum. 266.8, 18/1	50	18	30	Black	Purple
9/16" R. GROOVE (See Note 2)								
UTC336	.666	.755	336.4, 19W All Alum. 336.4, 18/1 397.5, 19W All Alum.	50	19	31	Black	Brown
UTC477	.756	.858	477, 19W, 37W All Alum. 477, 18/1, 24/7, 26/7	50	19	32	Black	Red
5/8" R. GROOVE (See Note 2)								
UTC556	.859	.968	556.5, 26/7 636, 18/1 700, 37W, 61W All Alum.	50	20	34	Black	Blue
3/4" R. GROOVE (See Note 2)								
UTC795	.969	1.096	795, 37W All Alum. 795, 61W All Alum. 715.5, 24/7 795, 54/7	50	21	37	Black	Green
UTC954	1.097	1.240	954, 36/1, 54/7 1033.5, 37W, 61W All Alum.	50	22	40	Black	Yellow

Right-hand lay standard

(Continued on next page)

EXPLANATORY NOTES:

- (1) "Nominal Conductor Size" indicates one or more of various conductors within each range.
- (2) For the succeeding ranges the insulator's top groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.

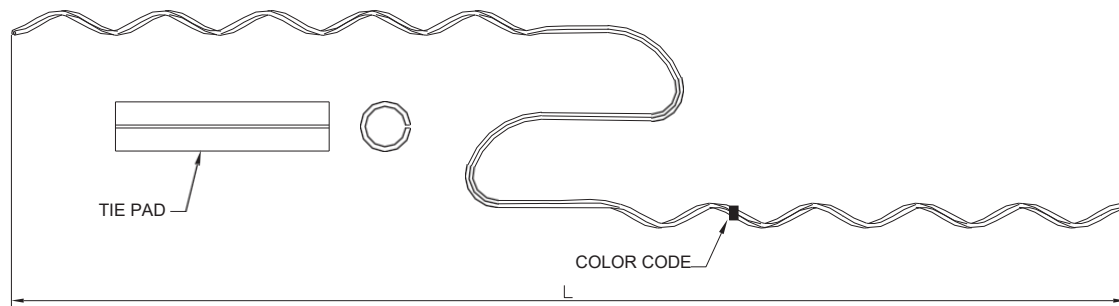


DISTRIBUTION TIES

For use on:

ACSR, Compacted ACSR, Aluminum Alloy, All-Aluminum, AWAC®
Compacted All-Aluminum F-Neck Interchangeable Headstyle Insulators

ANSI 55-4 Pin ANSI 55-5 Pin
ANSI 57-1 Pin ANSI 57-2 Pin
ANSI 57-3 Pin 2-7/8" Neck Diameter



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 2)								
UTF6	.190	.215	#6, 6/1 #4, 7W Comp.	100	18	25	Yellow	Blue
UTF4A	.216	.244	#4, 7W All Alum. #4, 6/1, 7/1 Comp.	100	19	26	Yellow	Brown
UTF4	.245	.277	#4, 6/1, 7/1 #4, 7W Alum. Alloy	100	19	27	Yellow	Orange
UTF3	.278	.315	#3, 7W Alum. Alloy #2, 7W All Alum.	100	20	29	Yellow	Purple
UTF2	.316	.357	#2, 6/1, 7/1 #2, 7W Alum. Alloy #1, 6/1	100	20	31	Yellow	Red
UTF10	.358	.405	1/0, 7W All Alum. 1/0, 6/1 1/0, 7W Alum. Alloy	100	21	32	Yellow	Yellow
UTF20	.406	.459	2/0, 7W All Alum. 2/0, 6/1 2/0, 7W Alum. Alloy	50	18	26	Yellow	Blue
UTF30	.460	.520	3/0, 7W All Alum. 3/0, 6/1 3/0, 7W Alum. Alloy	50	18	27	Yellow	Orange
UTF40	.521	.588	4/0, 7W All Alum. 4/0, 6/1 4/0, 7W Alum. Alloy	50	19	29	Yellow	Red
UTF266	.589	.665	266.8, 37W All Alum. 266.8, 18/1	50	19	32	Yellow	Purple
9/16" R. GROOVE (See Note 2)								
UTF336	.666	.755	336.4, 19W All Alum. 336.4, 18/1 397. 5, 19W All Alum.	50	20	32	Yellow	Brown
UTF477	.756	.858	477, 19W, 37W All Alum. 477, 18/1, 24/7, 26/7	50	20	33	Yellow	Red
5/8" R. GROOVE (See Note 2)								
UTF556	.859	.968	556.5, 26/7 636, 18/1 700, 37W, 61W All Alum.	50	21	35	Yellow	Blue
3/4" R. GROOVE (See Note 2)								
UTF795	.969	1.096	795, 37W All Alum. 795, 61W All Alum. 715.5, 24/7 795, 54/7	50	22	38	Yellow	Green
UTF954	1.097	1.240	954, 36/1 1033.5, 37W, 61W All Alum. 954, 54/7	50	23	41	Yellow	Yellow
1" R. GROOVE (See Note 2)								
UTF1033	1.241	1.402	1033.5, 54/7 1272, 45/7	50	25	43	Yellow	Orange
UTF1351	1.403	1.585	1351.5, 54/19 1590. 45/7	50	26	45	Yellow	Black

Right-hand lay standard

EXPLANATORY NOTES:

- (1) "Nominal Conductor Size" indicates one or more of various conductors within each range.
- (2) For the succeeding ranges the insulator's top groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.



DISTRIBUTION TIES

For use on:

ACSR, Compacted ACSR, Aluminum Alloy, All-Aluminum, AWAC®

Compacted All-Aluminum J-Neck Interchangeable

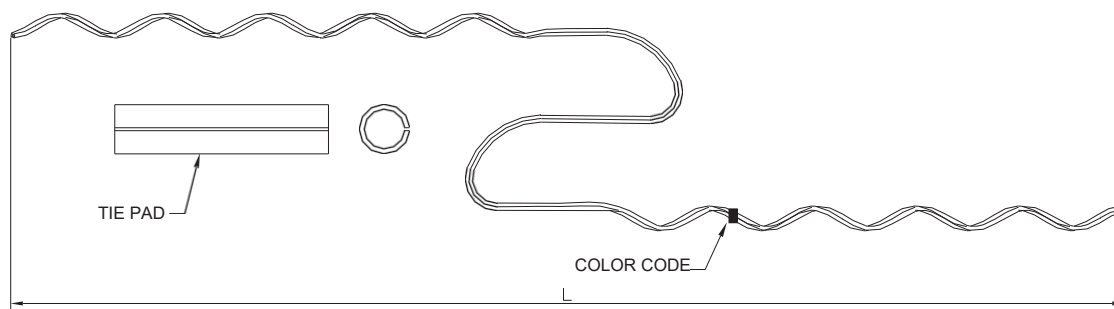
Headstyle Insulators

ANSI 55-6 Pin

ANSI 55-7 Pin

ANSI 56-1 Pin

3-1/2" Neck Diameter



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 2)								
UTJ6	.190	.215	#6, 6/1 #4, 7W Comp.	100	24	26	Green	Blue
UTJ4A	.216	.244	#4, 7W All Alum. #4, 6/1, 7/1 Comp.	100	24	27	Green	Brown
UTJ4	.245	.277	#4, 6/1, 7/1 #4, 7W Alum. Alloy	100	25	28	Green	Orange
UTJ3	.278	.315	#3, 7W Alum. Alloy #2, 7W All Alum.	100	27	30	Green	Purple
UTJ2	.316	.357	#2, 6/1, 7/1 #2, 7W Alum. Alloy #1, 6/1	100	29	32	Green	Red
UTJ10	.358	.405	1/0, 7W All Alum. 1/0, 6/1, 1/0, 7W Alum. Alloy	100	31	33	Green	Yellow
UTJ20	.406	.459	2/0, 7W All Alum. 2/0, 6/1, 2/0, 7W Alum. Alloy	50	20	27	Green	Blue
UTJ30	.460	.520	3/0, 7W All Alum. 3/0, 6/1, 3/0, 7W Alum. Alloy	50	21	28	Green	Orange
UTJ40	.521	.588	4/0, 7W All Alum. 4/0, 6/1, 4/0, 7W Alum. Alloy	50	22	30	Green	Red
UTJ266	.589	.665	266.8, 37W All Alum. 266.8, 18/1	50	22	33	Green	Purple
9/16" R. GROOVE (See Note 2)								
UTJ336	.666	.755	336.4, 19W All Alum. 336.4, 18/1 397.5, 19W All Alum.	50	23	33	Green	Brown
UTJ477	.756	.858	477, 19W, 37W All Alum. 477, 18/1, 24/7, 26/7	50	27	34	Green	Red
5/8" R. GROOVE (See Note 2)								
UTJ556	.859	.968	556.5, 26/7 636, 18/1 700, 37W, 61W All Alum.	50	27	36	Green	Blue
3/4" R. GROOVE (See Note 2)								
UTJ795	.969	1.096	795, 37W All Alum. 795, 61W All Alum. 715.5, 24/7 795, 54/7	50	30	39	Green	Green
UTJ954	1.097	1.240	954, 36/1 954, 54/7 1033.5, 37W, 61W All Alum.	50	31	42	Green	Yellow

Right-hand lay standard

EXPLANATORY NOTES:

- (1) "Nominal Conductor Size" indicates one or more of various conductors within each range.
- (2) For the succeeding ranges the insulator's top groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.



DISTRIBUTION TIES

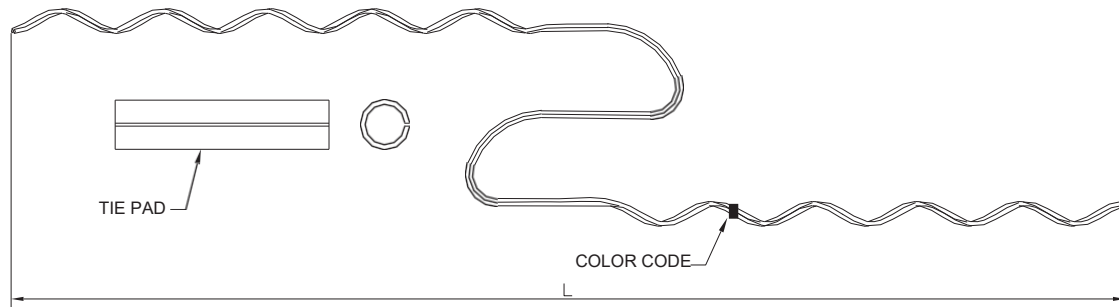
For use on:

ACSR, Compacted ACSR, Aluminum Alloy, All-Aluminum, AWAC® Compacted All-Aluminum
K-Neck Interchangeable Headstyle Insulators

ANSI 56-2 Pin

ANSI 56-3 Pin

4" Neck Diameter



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 2)								
UTK4	.245	.277	#4, 6/1 #4, 7W AAC	100	27	32	Blue	Orange
UTK2	.316	.357	#2, 6/1, 7/1 #2, 7W AAAC #1, 6/1	100	31	36	Blue	Red
UTK10	.358	.405	1/0, 7W AAC 1/0, 6/1, 1/0, 7W AAAC	100	31	38	Blue	Yellow
UTK20	.406	.459	2/0, 7W AAC 2/0, 6/1, 2/0, 7W AAAC	50	21	31	Blue	Blue
UTK30	.460	.520	3/0, 7W AAC 3/0, 6/1, 3/0, 7W AAAC	50	22	32	Blue	Orange
UTK40	.521	.588	4/0, 7W AAC 4/0, 6/1, 4/0, 7W AAAC	50	23	34	Blue	Red
UTK266	.589	.665	266.8, 37W AAC 266.8, 18/1	50	25	36	Blue	Purple
UTK336	.666	.755	336.4, 19W AAC 336.4, 18/1 397. 5, 19W AAC	50	25	37	Blue	Brown
UTK477	.756	.858	477, 19W, 37W AAC 477, 18/1, 24/7, 26/7	50	27	38	Blue	Red
5/8", R. GROOVE (See Note 2)								
UTK556	.859	.968	556.5, 26/7 636, 18/1 700, 37W, 61W AAC	50	27	40	Blue	Blue
3/4", R. GROOVE (See Note 2)								
UTK795	.969	1.096	795, 37W, 61W AAC 715.5, 24/7 795, 54/7	50	29	43	Blue	Green
UTK954	1.097	1.240	954, 36/1, 54/7 1033.5, 37W, 61W, AAC	50	30	46	Blue	Yellow

Right-hand lay standard

EXPLANATORY NOTES:

- (1) "Nominal Conductor Size" indicates one or more of various conductors within each range.
- (2) For the succeeding ranges the insulator's top groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.



SIDE TIES - GROOVE FORMED

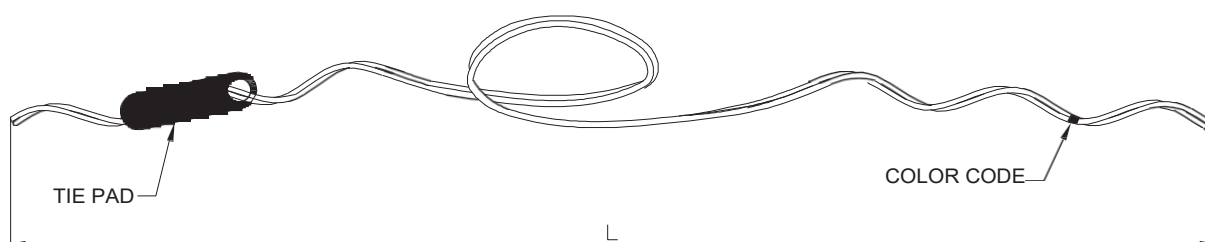
For use on:

ACAR, ACSR, All-Aluminum, AWAC® Compacted ACSR, Aluminum Alloy
C-Neck Interchangeable Headstyle Insulators

ANSI 55-2 Pin

2-1/4" Neck Diameter

ANSI 55-3 Pin



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 2)								
STC6P	.190	.215	#6, 6/1 – #4, 7W Comp.	100	19	16	Black	Blue
STC4AP	.216	.244	#4, 7W All Alum. – #4, 6/1, 7/1 Comp.	100	20	17	Black	Brown
STC4P	.245	.277	#4, 6/1, 7/1 – #4, 7W Alum. Alloy	100	22	19	Black	Orange
STC3P	.278	.315	#3, 7W Alum. Alloy – #2, 7W All Alum.	50	11	21	Black	Purple
STC2P	.316	.357	#2, 6/1, 7/1 – #2, 7W Alum. Alloy – #1, 6/1	50	16	24	Black	Red
STC10P	.358	.405	1/0, 7W All Alum. 1/0, 6/1 1/0, 7W Alum. Alloy	50	17	26	Black	Yellow
STC20P	.406	.459	2/0, 7W All Alum. 2/0, 6/1 2/0, 7W Alum. Alloy	50	20	28	Black	Blue
STC30 P	.460	.520	3/0, 7W All Alum. 3/0, 6/1 3/0, 7W Alum. Alloy	50	21	31	Black	Orange
STC40P	.521	.588	4/0, 7W All Alum. 4/0, 6/1 4/0, 7W Alum. Alloy	50	22	32	Black	Red
STC266P	.589	.665	266.8, 37W All Alum. 266.8, 18/1 336.4, 19W All Alum.	50	24	23	Black	Purple
STC336P	.666	.755	336.4, 18/1 397.5, 19W All Alum. 400, 19W, 37W, All Alum.			25	Black	Brown
STC477 P	.756	.858	477, 19W, 37W, All Alum. 477, 18/1, 24/7, 26/7			26	Black	Red
5/8" R. GROOVE (See Note 2)								
STC556P	.859	.968	556.5, 26/7 636, 18/1 700, 37W, 61W, All Alum.			28	Black	Blue
11/16" R. GROOVE (See Note 2)								
STC795P	.969	1.096	795, 37W, 61W, All Alum. 715.5, 24/7 795, 54/7			29	Black	Green
3/4" R. GROOVE (See Note 2)								
STC954P	1.097	1.240	954, 36/1, 54/7 1033.5, 37W, 61W, All Alum.			33	Black	Yellow

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) For the succeeding ranges, the insulator's side groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.



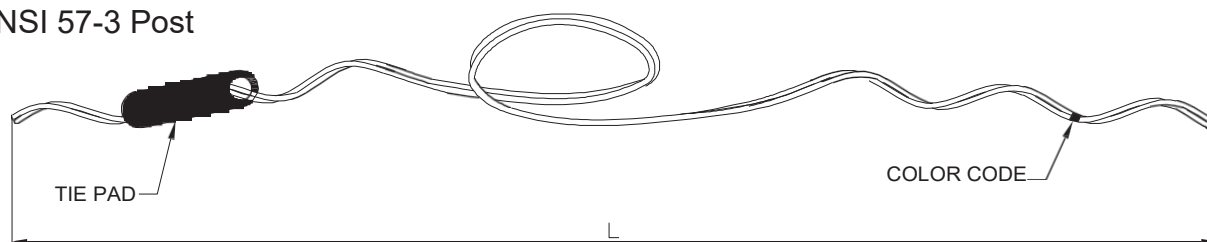
SIDE TIES - GROOVE FORMED

For use on:

ACAR, ACSR, All-Aluminum, AWAC® Compacted ASCR,
Aluminum Alloy F-Neck Interchangeable
Headstyle Insulators

ANSI 53-4 Spool ANSI 53-5 Spool
ANSI 55-4 Pin ANSI 55-5 Pin
ANSI 57-1 Post ANSI 57-2 Post
ANSI 57-3 Post

2-7/8"
Neck Diameter



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 2)								
STF6 P	.190	.215	#6, 6/1 #4, 7W Comp.	100	16	16	Yellow	Blue
STF4AP	.216	.244	#4, 7W All Alum. #4, 6/1, 7/1 Comp.	100	17	17	Yellow	Brown
STF4 P	.245	.277	#4, 6/1, 7/1 #4, 7W Alum. Alloy	100	19	19	Yellow	Orange
STF3 P	.278	.315	#3, 7W Alum. Alloy #2, 7W All Alum.	50	12	21	Yellow	Purple
STF2 P	.316	.357	#2, 6/1, 7/1 #2, 7W Alum. Alloy #1, 6/1	50	17	24	Yellow	Red
STF10 P	.358	.405	1/0, 7W All Alum. 1/0, 6/1 1/0, 7W Alum. Alloy	50	17	26	Yellow	Yellow
STF20 P	.406	.459	2/0, 7W All Alum. 2/0, 6/1 2/0, 7W Alum. Alloy	50	21	28	Yellow	Blue
STF30P	.460	.520	3/0, 7W All Alum. 3/0, 6/1 3/0, 7W Alum. Alloy	50	22	30	Yellow	Orange
STF40 P	.521	.588	4/0, 7W All Alum. 4/0, 6/1 4/0, 7W Alum. Alloy	50	24	32	Yellow	Red
STF266 P	.589	.665	266.8, 37W All Alum. 266.8, 18/1 336.4, 19W All Alum.	50	24	23	Yellow	Purple
STF336 P	.666	.755	336.4, 18/1 397. 5, 19W All Alum. 400, 19W, 37W, All Alum.	50	33	25	Yellow	Brown
STF477P	.756	.858	477, 19W, 37W, All Alum. 477, 18/1, 24/7, 26/7	50	30	26	Yellow	Red
5/8" R. GROOVE (See Note 2)								
STF556 P	.859	.968	556.5, 26/7 636, 18/1 700, 37W, 61W, All Alum.	50	36	28	Yellow	Blue
11/16" R. GROOVE (See Note 2)								
STF795 P	.969	1.096	795, 37W, 61W, All Alum. 715.5, 24/7 795, 54/7	50	36	29	Yellow	Green
3/4" R. GROOVE (See Note 2)								
STF954 P	1.097	1.240	954, 36/1, 54/7 1033.5, 37W, 61W, All Alum.	50	39	33	Yellow	Yellow

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) For the succeeding ranges, the insulator's side groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.



SIDE TIES - GROOVE FORMED

For use on:

ACSR, ACAR, All-Aluminum, AWAC®, Compacted ACSR,
Aluminum Alloy J-Neck Interchangeable

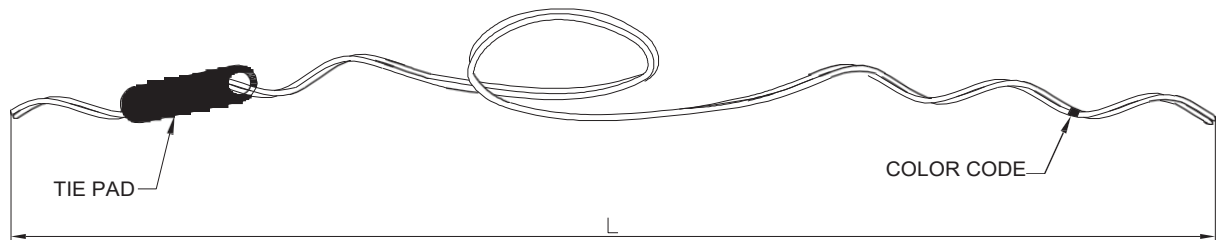
Headstyle Insulators

ANSI 55-6 Single Skirt Pin

ANSI 55-7 Single Skirt Pin

ANSI 56-1 Double Skirt Pin

3-1/2"
Neck Diameter



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Approx. Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 2)								
STJ6P	.190	.215	#6, 6/1	100	19	16	Green	Blue
STJ4AP	.216	.244	#4, 7W, All Alum.	100	21	17	Green	Brown
STJ4P	.245	.277	#4, 6/1 - 7/1 #3, 7W, All Alum.	100	23	19	Green	Orange
STJ3P	.278	.315	#3, 7W, Alum. Alloy #2, 7W, All Alum.	100	28	21	Green	Purple
STJ2P	.316	.357	#2, 6/1 - 7/1 #2, 7W, Alum. Alloy #1, 6/1	100	32	24	Green	Red
STJ10P	.358	.405	1/0, 7W-19W All Alum. 1/0, 6/1 1/0, 7W, Alum. Alloy	100	33	26	Green	Yellow
STJ20P	.406	.459	2/0, 7W-19W, All Alum. 2/0, 6/1	50	24	31	Green	Blue
STJ30 P	.460	.520	3/0, 7W-19W, All Alum. 3/0, 6/1 3/0, 7W, Alum. Alloy	50	24	32	Green	Orange
STJ40P	.521	.588	4/0, 6/1 4/0, 7W, All Alum. 4/0, 7W, Alum Alloy 250, 19W-37W All Alum.	50	25	34	Green	Red
STJ266P	.589	.665	266.8, 19W-37W All Alum. 300, 19W37W, All Alum. 266.8, 26/7	50	27	23	Green	Purple
5/8" R. GROOVE (See Note 2)								
STJ336 P	.666	.755	336.4, 37W, All Alum. 397. 5, 19W-37W, All Alum.	50	33	25	Green	Brown
STJ477P	.756	.858	397.5, 24/7, 26/7 477, 19W, 37W, All Alum. 477, 18/1, 24/7, 26/7	50	35	26	Green	Red
STJ556 P	.859	.968	556.5, 61W All Alum. 556.5, 26/7 636, 18/1	25	19	28	Green	Blue
STJ795 P	.969	1.096	636, 24/7, 26/7, 30/19 715.5, 36/1, 24/7, 26/7	25	19	29	Green	Green
STJ954 P	1.097	1.240	954, 54/7 1033.5, 45/7 1113, 61W All Alum. 954, 37W Alum. Alloy	25	22	33	Green	Yellow

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) For the succeeding ranges, the insulator's side groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.



DOUBLE SIDE TIES

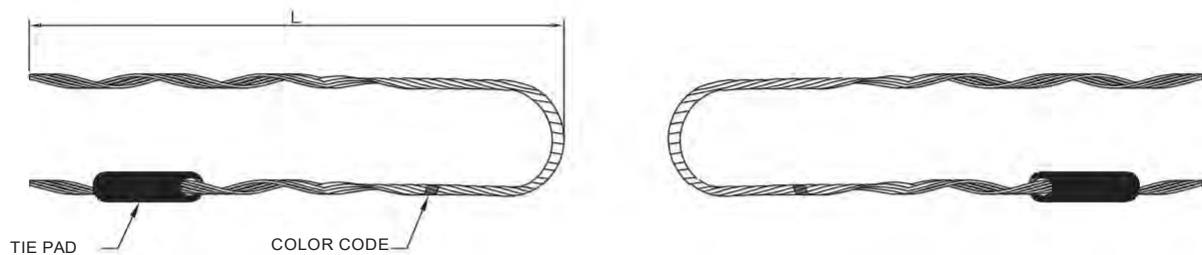
For use on:

ACSR, All-Aluminum, AWAC®, Aluminum Alloy Compacted ACSR, ACAR

C-Neck & F-Neck Interchangeable

Headstyle Insulators

ANSI 55-2 PIN	ANSI 55-3 PIN	2-1/4" & 2-7/8" Neck Diameters
ANSI 55-4 PIN	ANSI 55-5 PIN	
ANSI 57-1 POST	ANSI 57-2 POST	
ANSI 57-3 POST		



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 2)								
DBST4CF	.245	.277	#4, 6/1- 7/ 1 – #4, 7W Alum. Alloy	50	21	16	Black/Yellow	Orange
DBST3CF	.278	.315	#3, 7W Alum.Alloy #2, 7W All Alum.	50	21	16	Black/Yellow	Purple
DBST2CF	.316	.357	#2, 6/1, 7/1 – #2, 7W Alum. Alloy – #1, 6/1	50	21	17	Black/Yellow	Red
DBST10CF	.358	.405	1/0, 7W All Alum. 1/0, 6/1 1/0, 7W Alum. Alloy	50	21	16	Black/Yellow	Yellow
DBST20CF	.406	.459	2/0, 7W All Alum. 2/0, 6/1 2/0, 7W Alum. Alloy	50	21	18	Black/Yellow	Blue
DBST30CF	.460	.520	3/0, 7W All Alum. 3/0, 6/1 3/0, 7W Alum. Alloy	50	36	19	Black/Yellow	Orange
DBST40CF	.521	.588	4/0, 7W All Alum. 4/0, 6/1 4/0, 7W Alum. Alloy	50	36	19	Black/Yellow	Red
DBST266CF	.589	.665	266.8, 37W All Alum. 266.8, 18/1	50	38	20	Black/Yellow	Purple
DBST336CF	.666	.755	336.4, 18/1 336.4, 19W All Alum. 397.5, 19W, All Alum.	50	39	20	Black & Yellow	Brown
DBST477CF	.756	.858	477, 19W, 37W, All Alum. 477, 18/1, 24/7, 26/7	50	39	20	Black & Yellow	Red
5/8" R. GROOVE (See Note 2)								
DBST556CF	.859	.968	556.5, 26/7 636, 18/1 700, 37W, 61W, All Alum.	50	42	22	Black & Yellow	Blue
11/16" R. GROOVE (See Note 2)								
DBST795CF	.969	1.096	795, 37W, 61W, All Alum. 715.5, 24/7 795, 54/7	50	44	24	Black & Yellow	Green
3/4" R. GROOVE (See Note 2)								
DBST954CF	1.097	1.240	954, 36/1, 54/7 1033.5, 37W, 61W, All Alum.	50	44	24	Black & Yellow	Yellow

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Diameter Range indicates the size of conductors that utilize the same tie.
- (2) For the succeeding ranges, the insulator's side groove radius should be at least as large as shown above.
- (3) The loop of the Double Side Ties on this page can accommodate either C or F neck insulators.
- (4) Nominal Conductor size indicates one of various conductors within each range.
- (5) AWAC is a registered trademark of the Copperweld Co.



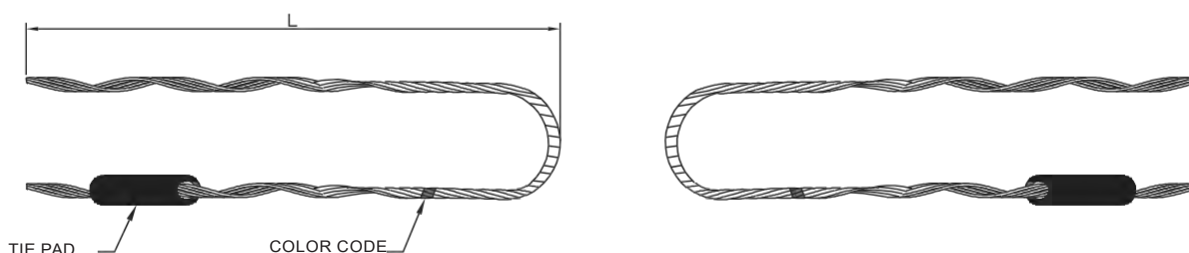
DOUBLE SIDE TIES

For use on:

ACSR, All-Aluminum, AWAC®, Aluminum Alloy Compacted ACSR, ACAR
J-Neck Interchangeable Headstyle Insulators

ANSI 55-6 Single Skirt Pin
ANSI 55-7 Single Skirt Pin
ANSI 56-1 Double Skirt Pin

3-1/2"
Neck Diameter



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 2)								
DBST4J	.245	.277	#4, 6/1- 7/ 1 – #4, 7W Alum. Alloy	50	24	19	Green	Orange
DBST3J	.278	.315	#3, 7W Alum.Alloy – #2, 7W All Alum.	50	21	17	Green	Purple
DBST2J	.316	.357	#2, 6/1, 7/1 – #2, 7W Alum. Alloy – #1, 6/1	50	27	22	Green	Red
DBST10J	.358	.405	1/0, 7W - 19W All Alum. 1/0, 6/1 1/0, 7W Alum. Alloy	50	26	21	Green	Yellow
DBST20J	.406	.459	2/0, 7W - 19W All Alum. 2/0, 6/1 2/0, 7W Alum. Alloy	50	36	19	Green	Blue
DBST30J	.460	.520	3/0, 7W All Alum. 3/0, 6/1 3/0, 7W Alum. Alloy	50	37	20	Green	Orange
DBST40J	.521	.588	4/0, 7W All Alum. 4/0, 6/1 4/0, 7W Alum. Alloy	50	39	21	Green	Red
DBST266J	.589	.665	266.8, 37W All Alum. 266.8, 18/1	50	45	24	Green	Purple
DBST336J	.666	.755	336.4, 18/1 336.4, 19W All Alum. 397.5, 19W, All Alum.	50	46	25	Green	Brown
DBST447J	.756	.858	477, 19W, 37W, All Alum. 477, 18/1, 24/7, 26/7	50	44	24	Green	Red
5/8" R. GROOVE (See Note 2)								
DBST556J	.859	.968	556.5, 26/7 636, 18/1 700, 37W, 61W, All Alum.	50	43	23	Green	Blue
11/16" R. GROOVE (See Note 2)								
DBST795J	.969	1.096	795, 37W, 61W, All Alum. 715.5, 24/7 795, 54/7	50	43	23	Green	Green
DBST954J	1.097	1.240	954, 36/1, 54/7 1033.5, 37W, 61W, All Alum.	50	48	25	Green	Yellow

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Diameter Range indicates the size of conductors that utilize the same tie.
- (2) For the succeeding ranges, the insulator's side groove radius should be at least as large as shown above.
- (3) The loop of the Double Side Ties on this page can accommodate J-neck insulators.
- (4) Nominal Conductor size indicates one of various conductors within each range.
- (5) AWAC is a registered trademark of the Copperweld Co.



LONGSPAN TIES

For use on:

ACSR, Compacted ACSR, Aluminum Alloy All-Aluminum,

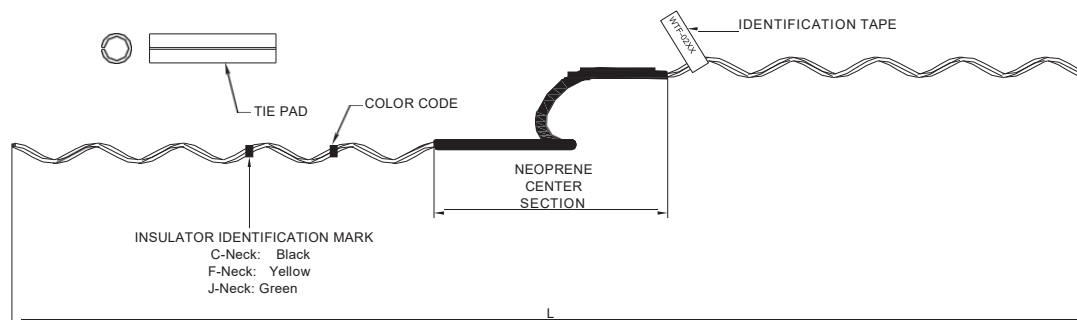
AWAC® Compacted All-Aluminum

C-Neck Interchangeable Headstyle Insulators

ANSI 55-2 Pin

2-1/4" Neck Diameter

ANSI 55-3 Pin



Catalog Number	Diameter Range (inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R Groove (See Note 2)								
LTC-0100	.248	.259	#4, 6/1- 7/ 1 #4, 7W Alum. Alloy	100	21	19	Black	Orange
LTC-0101	.260	.269	#4, AWAC, 5/2 #3, 7W, All-Alum. #2, 7W, Comp.	100	21	19	Black	Green
LTC-0102	.270	.280	#3, 7W, Alum. Alloy #3, AWAC, 6/1	100	21	19	Black	Yellow
LTC-0103	.281	.291	#4, AWAC, 4/3 #3, 6/1 #2, 6/1, Comp.	100	24	20-1/2	Black	White
LTC-0104	.292	.303	#3, AWAC, 5/2 #2, 7W, All-Alum. #2, 7/1, Comp.	100	24	20-1/2	Black	Purple
LTC-0105	.304	.314	#4, AWAC, 3/4 #2, AWAC, 6/1	100	24	21-1/2	Black	Brown
LTC-0106	.315	.327	#2, 6/1- 7/ 1 #2, 7W, Alum. Alloy	100	24	21-1/2	Black	Red
LTC-0107	.328	.340	#2, AWAC, 5/2 #1, 7W, All-Alum. 1/0, 7W, Comp.	100	25	22-1/2	Black	Blue
LTC-0108	.341	.353	#3, AWAC, 3/4 #1, 7W, Alum. Alloy	100	25	22-1/2	Black	Orange
LTC-0109	.354	.367	#2, AWAC, 4/3 #1, 6/1, 1/0, 6/1, Comp.	100	26	23-1/2	Black	Green
LTC-0110	.368	.381	1/0, 7W, All-Alum. 2/0, 7W, Comp.	100	26	20	Black	Black
LTC-0111	.382	.394	#2, AWAC, 3/4 1/0, AWAC, 6/1	100	27	21	Black	White
LTC-0112	.395	.411	1/0, 6/1 1/0, 7W, Alum. Alloy	100	27	21	Black	Yellow
LTC-0113	.412	.437	2/0, 7W-19W, All-Alum. 3/0, 7W-19W, Comp.	100	27	22	Black	Brown
LTC-0114	.438	.463	2/0, 6/1- 7/ 1 2/ 0, 7W, Alum. Alloy	100	28	23	Black	Blue
LTC-0115	.464	.492	3/0, 7W-19W, All-Alum. 4/0, 7W-19W, Comp.	50	18	24-1/2	Black	Green
LTC-0116	.493	.522	3/0, 6/1 3/0, 7W, Alum. Alloy 4/0, 7W, All-Alum.	50	18	24-1/2	Black	Orange
LTC-0117	.523	.554	3/0, AWAC, 5/2 4/0, 19W, All-Alum. 266.8, 7W-19W, Comp.	50	18	26-1/2	Black	Black
LTC-0118	.555	.594	4/0, 6/1 4/0, 7W, Alum. Alloy 266.8, 7W-19W, All-Alum.	50	19	27-1/2	Black	Red
LTC-0119	.595	.630	266.8, 18/1 300, 18W-37W, All-Alum.	50	21	28-1/2	Black	Purple

Right-hand lay standard

(Continued on next page)

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) For the succeeding conductors ranges, the insulator's top groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.



LONGSPAN TIES

For use on:

ACSR, Compacted ACSR, Aluminum Alloy

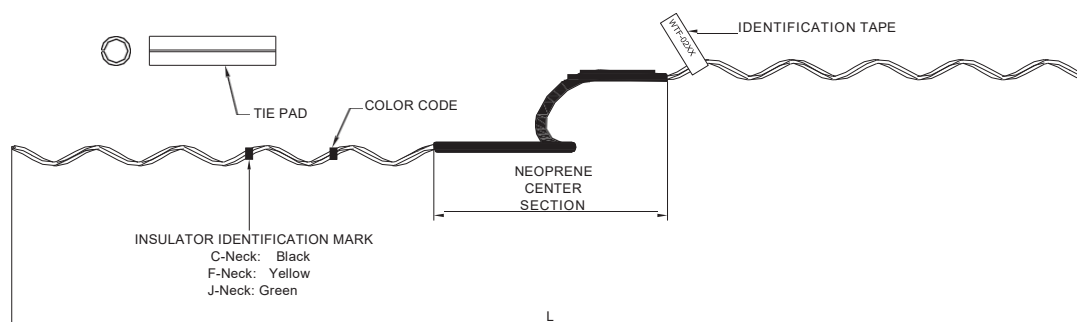
All-Aluminum, AWAC® Compacted All-Aluminum

C-Neck Interchangeable Headstyle Insulators

ANSI 55-2 Pin

2-1/4" Neck Diameter

ANSI 55-3 Pin



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
5/8", R. Groove (See Note 2)								
LTC-0120	.631	.664	266.8, 26/7 266.8, 19W, Alum. Alloy	50	21	28-1/2	Black	Yellow
LTC-0121	.665	.705	336.4, 18/1- 36/1 336.4, 19W, All-Alum. 350, 19W-37W, All-Alum.	50	21	29-1/2	Black	Brown
LTC-0122	.706	.747	336.4, 26/7- 30/7 397. 5, 19W, All-Alum.	50	22	30-1/2	Black	Green
3/4" R. Groove (See Note 2)								
LTC-0123	.748	.795	397.5, 24/7, 26/7 397. 5, 19W, Alum. Alloy 477, 19W, 37W, All-Alum.	50	20	33	Black	Orange
LTC-0124	.796	.846	477, 18/1, 36/1 500, 19W, All-Alum.	50	21	37	Black	Purple
LTC-0125	.847	.900	556.5, 18/1, 36/1 556.5, 19W, 37W All-Alum.	50	21	39	Black	Blue
LTC-0126	.901	.958	636, 18/1, 36/1 636, 37W All-Alum. 556.5M, 19W Alum. Alloy	50	22	41	Black	Green
LTC-0127	.959	1.018	666.6, 24/7, 54/7 750, 37W All-Alum. 636, 37 Alum. Alloy	50	23	43	Black	White
13/16" R. Groove (See Note 2)								
LTC-0128	1.019	1.083	795, 36/1, 45/7 795, 37W Alum. Alloy	50	24	45	Black	Brown
7/8" or 1" R. Groove (See Note 2)								
LTC-0129	1.084	1.151	954, 36/1 954, 37W All-Alum. 795, 37W Alum. Alloy	50	25	47	Black	Orange
LTC-0130	1.152	1.223	954, 45/7, 54/7 1033.5, 37W All-Alum. 954, 37W Alum.Alloy	50	27	49	Black	Purple
LTC-0131	1.224	1.240		50	29	59	Black	Black

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) For the succeeding conductors ranges, the insulator's top groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.



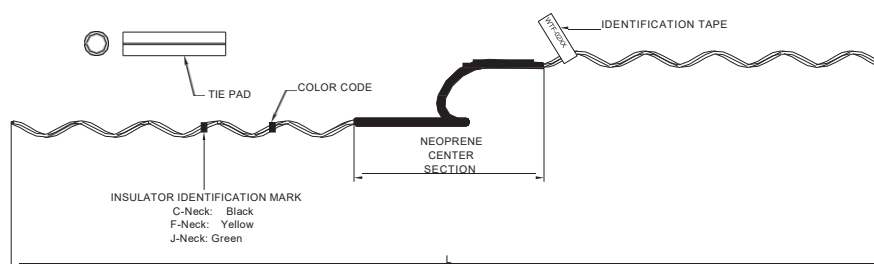
LONGSPAN TIES

For use on:

ACSR, Compacted ACSR, Aluminum Alloy All-Aluminum, AWAC®

Compacted All-Aluminum F-Neck Interchangeable Headstyle Insulators

ANSI 55-4 Pin ANSI 55-5 Pin 2-7/8"
ANSI 57-1 Post ANSI 57-2 Post Neck Diameter
ANSI 57-3 Post



Catalog Number	Diameter Range (inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R Groove (See Note 2)								
LTF-0200	.248	.259	#4, 6/1- 7/ 1 – # 4, 7W, Alum. Alloy	100	24	20-3/4	Yellow	Orange
LTF-0201	.260	.269	#4, AWAC, 5/2 – #3, 7W, All-Alum. – #2, 7W, Comp.	100	24	20-3/4	Yellow	Green
LTF-0202	.270	.280	#3, 7W, Alum. Alloy – #3, AWAC, 6/1	100	24	20-3/4	Yellow	Yellow
LTF-0203	.281	.291	#4, AWAC, 4/3 – #3, 6/1 – #2, 6/1, Comp.	100	26	21-3/4	Yellow	White
LTF-0204	.292	.303	#3, AWAC, 5/2 – #3, 7W, All-Alum. – #2, 7/1, Comp.	100	26	21-3/4	Yellow	Purple
LTF-0205	.304	.314	#4, AWAC, 3/4 – #2, AWAC, 6/1	100	27	22-3/4	Yellow	Brown
LTF-0206	.315	.327	#2, 6/1- 7/ 1 – #2, 7W, Alum. Alloy	100	27	22-3/4	Yellow	Red
LTF-0207	.328	.340	#2, AWAC, 5/2 – #1, 7W, All-Alum. 1/0, 7W, Comp.	100	27	23-3/4	Yellow	Blue
LTF-0208	.341	.353	#3, AWAC, 3/4 – #1, 7W, Alum. Alloy	100	27	23-3/4	Yellow	Orange
LTF-0209	.354	.367	#2, AWAC, 4/3 – #1, 6/1 1/0, 6/1, Comp.	100	28	24-3/4	Yellow	Green
LTF-0210	.368	.381	1/0, 7W, All-Alum. – 2/0, 7W, Comp.	100	29	21-1/2	Yellow	Black
LTF-0211	.382	.394	#2, AWAC, 3/4 – 1/0, AWAC, 6/1	100	29	22-1/2	Yellow	White
LTF-0212	.395	.411	1/0, 6/1 1/0, 7W, Alum. Alloy	100	29	22-1/2	Yellow	Yellow
LTF-0213	.412	.437	2/0, 7W-19W, All-Alum. 3/0, – 7W-19W, Comp.	100	30	23-1/2	Yellow	Brown
LTF-0214	.438	.463	2/0, 6/1- 7/ 1 2/ 0, – 7W, Alum. Alloy	100	31	24-1/2	Yellow	Blue
LTF-0215	.464	.492	3/0, 7W-19W, All-Alum. 4/0, – 7W-19W, Comp.	50	20	25-1/2	Yellow	Green
LTF-0216	.493	.522	3/0, 6/1 3/0, 7W, Alum. Alloy 4/0, – 7W, All-Alum.	50	20	25-1/2	Yellow	Orange
LTF-0217	.523	.554	3/0, AWAC, 5/2 4/0, 18/1 4/0, 19W, All-Alum. 266.8, 7W-19W, Comp.	50	20	25-1/2	Yellow	Black
LTF-0218	.555	.594	4/0, 6/1 4/0, 7W, Alum. Alloy 266.8, 7W-19W, All-Alum.	50	20	26-1/2	Yellow	Red
LTF-0219	.595	.630	266.8, 18/1 300,– 19W-37W, All-Alum.	50	22	28	Yellow	Purple
5/8", R. Groove (See Note 2)								
LTF-0220	.631	.664	266.8, 26/7 266.8, 19W, Alum. Alloy	50	22	29	Yellow	Yellow
LTF-0221	.665	.705	336.4, 18/1- 36/1 336.4, 19W, All-Alum. 350, 19W-37W, All-Alum.	50	22	29	Yellow	Brown
LTF-0222	.706	.747	336.4, 26/7- 30/7 397. 5, 19W, All-Alum.	50	23	30	Yellow	Green
3/4" R. Groove (See Note 2)								
LTF-0223	.748	.795	397.5, 24/7- 26/7 397. 5, 19W, Alum. Alloy 477, 19W-37W, All-Alum.	50	24	32-1/2	Yellow	Orange

Right-hand lay standard

(Continued on next page)

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) For the succeeding conductors ranges, the insulator's top groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.



LONGSPAN TIES

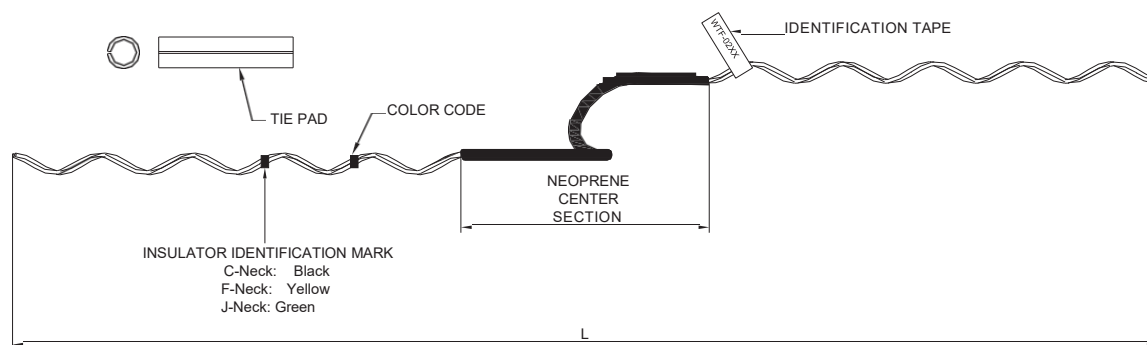
For use on:

ACSR, Compacted ACSR, Aluminum Alloy All-Aluminum, AWAC®

Compacted All-Aluminum F-Neck Interchangeable

Headstyle Insulators

ANSI 55-4 Pin	ANSI 55-5 Pin	
ANSI 57-1 Post	ANSI 57-2 Post	2-7/8"
ANSI 57-3 Post		Neck Diameter



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
LTF-0224	.796	.846	477, 18/1, 36/1 500, 19W, All-Alum.	50	20	37	Yellow	Purple
LTF-0225	.847	.900	556.5, 18/1, 36/1 556.5, 19W, 37W All-Alum	50	21	39	Yellow	Blue
LTF-0226	.901	.958	636, 18/1, 36/1 636, 37W All-Alum. 556.5, 19W Alum. Alloy	50	22	41	Yellow	Green
LTF-0227	.959	1.018	666.6, 24/7, 54/7 750, 37W, All-Alum. 636, 37W, Alum. Alloy	50	22	43	Yellow	White
13/16" R. Groove (See Note 2)								
LTF-0228	1.019	1.083	795, 36/1, 45/7 795, 37W, All-Alum.	50	23	45	Yellow	Brown
7/8" R. or 1" R. Groove (See Note 2)								
LTF-0229	1.084	1.151	954, 36/1 954, 37W, All-Alum. 795, 37W, Alum. Alloy	50	24	47	Yellow	Orange
LTF-0230	1.152	1.223	954, 45/7, 54/7 1033.5, 37W, All-Alum. 954, 37W, Alum. Alloy	50	25	49	Yellow	Purple
LTF-0231	1.224	1.240		50	29	59	Yellow	Black

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) For the succeeding conductors ranges, the insulator's top groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.

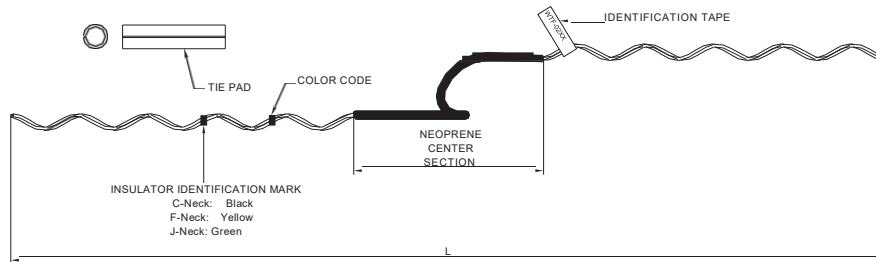


LONGSPAN TIES

For use on:

ACSR, Compacted ACSR, Aluminum Alloy All-Aluminum, AWAC® Compacted All-Aluminum
J-Neck Interchangeable Headstyle Insulators

ANSI 55-6	Single Skirt Pin	3-1/2" Neck Diameter
ANSI 55-7	Single Skirt Pin	
ANSI 56-1	Double Skirt Pin	



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R Groove (See Note 2)								
LTJ-0400	.248	.259	#4, 6/1- 7/ 1 – # 4, 7W, Alum. Alloy	100	29	21	Green	Orange
LTJ-0401	.260	.269	#4, AWAC, 5/2 – #3, 7W, All-Alum. – #2, 7W, Comp.	100	29	21	Green	Green
LTJ-0402	.270	.280	#3, 7W, Alum. Alloy – #3, AWAC, 6/1	100	29	21	Green	Yellow
LTJ-0403	.281	.291	#4, AWAC, 4/3 – #3, 6/1 – #2, 6/1Comp.	100	32	21	Green	White
LTJ-0404	.292	.303	#3, AWAC, 5/2 – #2, 7W, All-Alum. – #2, 7/1, Comp.	100	32	22	Green	Purple
LTJ-0405	.304	.314	#4, AWAC, 3/4 – #2, AWAC, 6/1	100	33	22	Green	Brown
LTJ-0406	.315	.327	#2, 6/1- 7/ 1 – #2, 7W, Alum. Alloy	100	33	23	Green	Red
LTJ-0407	.328	.340	#2, AWAC, 5/2 – #1, 7W, All-Alum. 1/0, 7W, Comp.	100	33	23	Green	Blue
LTJ-0408	.341	.353	#3, AWAC, 3/4 – #1, 7W, Alum. Alloy	100	33	24	Green	Orange
LTJ-0409	.354	.367	#2, AWAC, 4/3 – #1, 6/1 1/0, 6/1, Comp.	100	33	24	Green	Green
LTJ-0410	.368	.381	1/0, 7W, All-Alum. 2/0, 7W, Comp.	100	33	25	Green	Black
LTJ-0411	.382	.394	#2, AWAC, 3/4 1/0, AWAC, 6/1	100	34	23	Green	White
LTJ-0412	.395	.411	1/0, 6/1 1/0, 7W, Alum. Alloy	100	34	24	Green	Yellow
LTJ-0413	.412	.437	2/0, 7W-19W, All-Alum. 3/0, 7W-19W, Comp.	100	35	25	Green	Brown
LTJ-0414	.438	.463	2/0, 6/1- 7/ 1 2/ 0, 7W, Alum. Alloy	100	35	26	Green	Blue
LTJ-0415	.464	.492	3/0, 7W-19W, All-Alum. 4/0, 7W-19W, Comp.	50	21	28	Green	Green
LTJ-0416	.493	.522	3/0, 6/1 3/0, 7W, Alum. Alloy 4/0, 7W, All-Alum.	50	21	28	Green	Orange
LTJ-0417	.523	.554	3/0, AWAC, 5/2 4/0, 18/1 4/0, 19W, All-Alum. 266.8, 7W-19W, Comp.	50	21	28	Green	Black
LTJ-0418	.555	.594	4/0, 6/1 4/0, 7W, Alum. Alloy 266.8, 7W-19W, All-Alum.	50	22	29	Green	Red
LTJ-0419	.595	.630	266.8, 18/1 300, 19W-37W, All-Alum.	50	24	30	Green	Purple
5/8" R Groove (See Note 2)								
LTJ-0420	.631	.664	266.8, 26/7 266.8, 19W, Alum. Alloy	50	24	31	Green	Yellow
LTJ-0421	.665"	.705"	336.4, 18/1- 36/1 336.4, 19W, All-Alum. 350, 19W-37W, All-Alum.	50	24	31	Green	Brown
LTJ-0422	.706"	.747"	336.4, 26/7- 30/7 397. 5, 19W, All-Alum.	50	25	32	Green	Green
3/4" R Groove (See Note 2)								
LTJ-0423	.748"	.795"	397.5,24/7- 26/7 397. 5, 19W, Alum. Alloy 477M, 19W-37W, All-Alum.	50	26	34	Green	Orange
LTJ-0424	.796	.846	477, 18/1, 36/1 500, 19W, All-Alum.	50	32	39-1/2	Green	Purple
LTJ-0425	.847	.900	556.5, 18/6, 36/1 556.5, 19W, 37W, All-Alum.	50	33	41	Green	Blue
LTJ-0426	.901	.958	636, 18/1, 36/1 636, 37W, All-Alum. 556.5, 19W, Alum. Alloy	25	18	43	Green	Green
LTJ-0427	.959	1.018	666.6, 24/7, 54/7 750, 37W, All-Alum. 636, 37W, Alum. Alloy	50	35	45	Green	White
13/16" R Groove (See Note 2)								
LTJ-0428	1.019	1.083	795, 36/1, 45/7 795, 37W, All-Alum.	25	18	47	Green	Brown
7/8" or 1" Groove (See Note 2)								
LTJ-0429	1.084	1.151	954, 36/1 954, 37W, All-Alum. 795, 37W, Alum. Alloy	25	19	49	Green	Orange
LTJ-0430	1.152	1.223	954, 45/7, 54/7 1033.5, 37W, All-Alum.	25	19	51	Green	Purple
LTJ-0431	1.224	1.240		25	20	59-1/2	Green	Black

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) For the succeeding conductors ranges, the insulator's top groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.

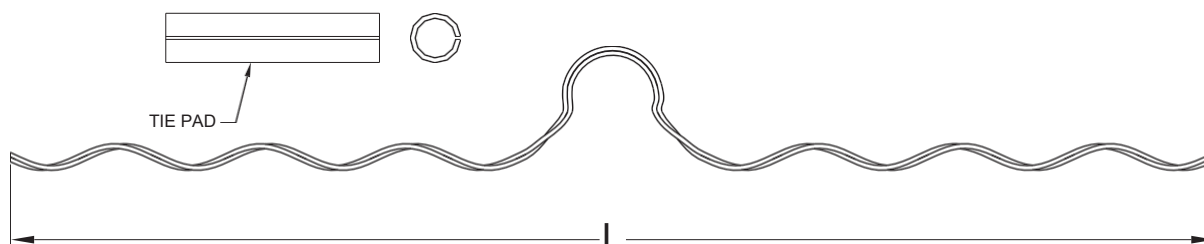


QUICK WRAP SIDE TIES

For use on:

ACAR, ACSR, All-Aluminum, AWAC® Compacted ACSR,
Aluminum Alloy C-Neck Interchangeable
Headstyle Insulators

ANSI 55-2 PIN 2-1/4" Neck Diameter
ANSI 55-3 PIN



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Approx. Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 2)								
EZSTC6	.190	.215	#6, 6/1 #4, 7W Comp.	100	16	21	Black	Blue
EZSTC4A	.216	.244	#4, 7W, All Alum. #4, 6/1, 7/1 Comp.	100	17	22	Black	Brown
EZSTC4	.245	.277	#4, 6/1 7/1 #4, 7W, Alum. Alloy	100	18	23	Black	Orange
EZSTC3	.278	.315	#3, 7W, Alum. Alloy #2, 7W, All Alum.	100	18	24	Black	Purple
EZSTC2	.316	.357	#2, 6/1 - 7/1 #2, 7W, Alum. Alloy #1, 6/1	100	19	25	Black	Red
EZSTC10	.358	.405	1/0, 7W All Alum. 1/0, 6/1 1/0, 7W, Alum. Alloy	100	21	23	Black	Yellow
EZSTC20	.406	.459	2/0, 7W All Alum. 2/0, 6/1 2/0, 7W Alum. Alloy	100	22	25	Black	Blue
EZSTC30	.460	.520	3/0, 7W All Alum. 3/0, 6/1 3/0, 7W, Alum. Alloy	100	24	27	Black	Orange
EZSTC40	.521	.588	4/0, 7W All Alum. 4/0, 6/1 4/0 7W, Alum Alloy	100	30	28	Black	Red
EZSTC266	.589	.665	266.8, 37W All Alum. 266.8, 18/1 336.4, 19W All Alum.	100	34	31	Black	Purple
EZSTC336	.666	.755	336.4, 37W All Alum. 336.4, 18/1 397.5, 19W All Alum. 400, 19W, 37W All Alum.	100	35	33	Black	Brown
EZSTC477	.756	.858	477, 19W, 37W, All Alum. 477, 18/1, 24/7, 26/7	50	29	35	Black	Red
5/8" R. GROOVE (See Note 2)								
EZSTC556	.859	.968	556.5, 26/7, 636, 18/1 700, 37W, 61W, All Alum.	50	35	36	Black	Blue
11/16" R. GROOVE (See Note 2)								
EZSTC795	.969	1.096	795, 37W, 61W, All Alum. 715.5, 24/7 795, 54/7	50	38	38	Black	Green
3/4" R. GROOVE (See Note 2)								
EZSTC954	1.097	1.240	954, 36/1, 54/7 1033.5, 37W, 61W, All Alum.	50	38	39	Black	Yellow

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) For the succeeding ranges, the insulator's side groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.



QUICK WRAP SIDE TIES

For use on:

ACAR, ACSR, All-Aluminum, AWAC® Compacted ASCR,

Aluminum Alloy F-Neck Interchangeable

Headstyle Insulators

ANSI 53-4 Spool ANSI 53-5 Spool

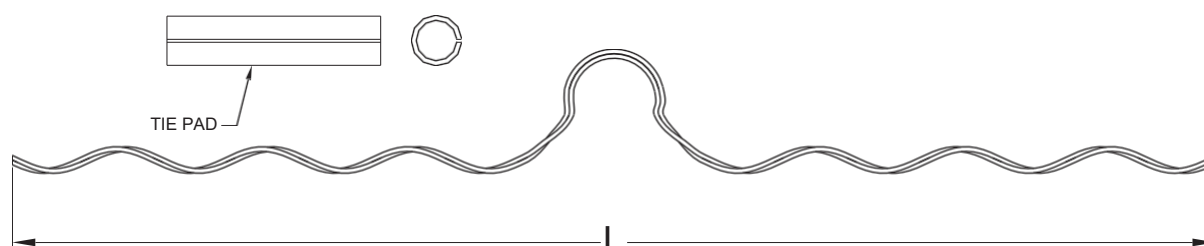
ANSI 55-4 Pin ANSI 55-5 Pin

ANSI 57-1 Post ANSI 57-2 Post

ANSI 57-3 Post

2-7/8"

Neck Diameter



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 2)								
EZSTF6	.190	.215	#6, 6/1 – #4, 7W Comp.	100	16	21	Yellow	Blue
EZSTF4A	.216	.244	#4, 7W All Alum. – #4, 6/1, 7/1 Comp.	100	17	22	Yellow	Brown
EZSTF4	.245	.277	#4, 6/1, 7/1 – #4, 7W Alum. Alloy	100	18	23	Yellow	Orange
EZSTF3	.278	.315	#3, 7W Alum. Alloy – #2, 7W All Alum.	100	18	24	Yellow	Purple
EZSTF2	.316	.357	#2, 6/1, 7/1 – #2, 7W Alum. Alloy #1, 6/1	100	19	25	Yellow	Red
EZSTF10	.358	.405	1/0, 7W All Alum. 1/0, 6/1 1/0, 7W Alum. Alloy	100	21	23	Yellow	Yellow
EZSTF20	.406	.459	2/0, 7W All Alum. 2/0, 6/1 2/0, 7W Alum. Alloy	100	22	25	Yellow	Blue
EZSTF30	.460	.520	3/0, 7W All Alum. 3/0, 6/1 3/0, 7W Alum. Alloy	100	24	27	Yellow	Orange
EZSTF40	.521	.588	4/0, 7W All Alum. 4/0, 6/1 4/0, 7W Alum. Alloy	100	30	28	Yellow	Red
EZSTF266	.589	.665	266.8, 37W All Alum. 266.8, 18/1 336.4, 19W All Alum.	100	34	31	Yellow	Purple
EZSTF336	.666	.755	336.4, 37W All Alum. 336.4, 18/1 397. 5, 19W All Alum. 400, 19W, 37W All Alum.	100	34	34	Yellow	Brown
EZSTF477	.756	.858	477, 19W, 37W, All Alum. 477, 18/1, 24/7, 26/7	50	54	36	Yellow	Red
5/8" R. GROOVE (See Note 2)								
EZSTF556	.859	.968	556.5, 26/7, 636, 18/1 700, 37W, 61W, All Alum.	50	36	37	Yellow	Blue
11/16" R. GROOVE (See Note 2)								
EZSTF795	.969	1.096	795, 37W, 61W, All Alum. 715.5, 24/7 795, 54/7	50	39	39	Yellow	Green
3/4" R. GROOVE (See Note 2)								
EZSTF954	1.097	1.240	954. 36/1. 54/7 1033.5. 37W. 61W. All Alum.	50	40	40	Yellow	Yellow

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) For the succeeding ranges, the insulator's side groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.



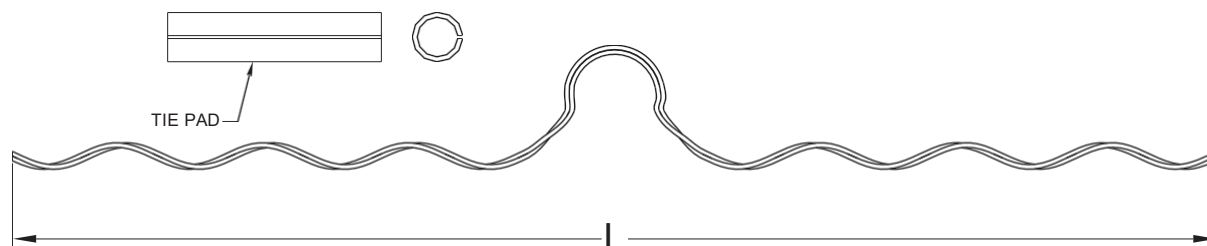
QUICK WRAP SIDE TIES

For use on:

ACSR, ACAR, All-Aluminum, AWAC®, Compacted ACSR, Aluminum Alloy

J-Neck Interchangeable Headstyle Insulators

ANSI 55-6	Single Skirt Pin	
ANSI 55-7	Single Skirt Pin	3-1/2"
ANSI 56-1	Double Skirt Pin	Neck Diameter



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Applied Length (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 2)								
EZSTJ6	.190	.215	#6, 6/1	100	18	24	Green	Blue
EZSTJ4A	.216	.244	#4, 7W, All Alum.	100	19	25	Green	Brown
EZSTJ4	.245	.277	#4, 6/1 - 7/1 #3, 7W, All Alum.	100	19	26	Green	Orange
EZSTJ3	.278	.315	#3, 7W, Alum. Alloy #2, 7W, All Alum.	100	20	27	Green	Purple
EZSTJ2	.316	.357	#2, 6/1 - 7/1 #2, 7W, Alum. Alloy #1, 6/1	100	21	28	Green	Red
EZSTJ10	.358	.405	1/0, 7W-19W All Alum. 1/0, 6/1 1/0, 7W, Alum. Alloy	100	23	26	Green	Yellow
EZSTJ20	.406	.459	2/0, 7W-19W, All Alum. 2/0, 6/1	100	25	28	Green	Blue
EZSTJ30	.460	.520	3/0, 7W-19W, All Alum. 3/0, 6/1 3/0, 7W, Alum. Alloy	100	26	30	Green	Orange
EZSTJ40	.521	.588	4/0, 6/1 4/0, 7W, All Alum. 4/0, 7W, Alum Alloy 250, 19W-37W All Alum.	100	35	31	Green	Red
EZSTJ266	.589	.665	266.8, 19W-37W All Alum. 300, 19W37W, All Alum. 266.8, 26/7	100	38	34	Green	Purple
5/8" R. GROOVE (See Note 2)								
EZSTJ336	.666	.755	336.4, 37W, All Alum. 397. 5, 19W-37W, All Alum.	50	40	36	Green	Brown
EZSTJ477	.756	.858	397.5, 24/7, 26/7 477, 19W, 37W, All Alum. 477, 18/1, 24/7, 26/7	50	31	38	Green	Red
EZSTJ556	.859	.968	556.5, 61W All Alum. 556.5, 26/7 636, 18/1	50	38	39	Green	Blue
EZSTJ795	.969	1.096	636, 24/7, 26/7, 30/19 715.5, 36/1, 24/7, 26/7	50	40	41	Green	Green
EZSTJ954	1.097	1.240	954, 54/7 1033.5, 45/7 1113, 61W All Alum. 954, 37W Alum. Alloy	50	43	42	Green	Yellow

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal Conductor size indicates one of various conductors within each range.
- (2) For the succeeding ranges, the insulator's side groove radius should be at least as large as shown above.
- (3) AWAC is a registered trademark of the Copperweld Co.

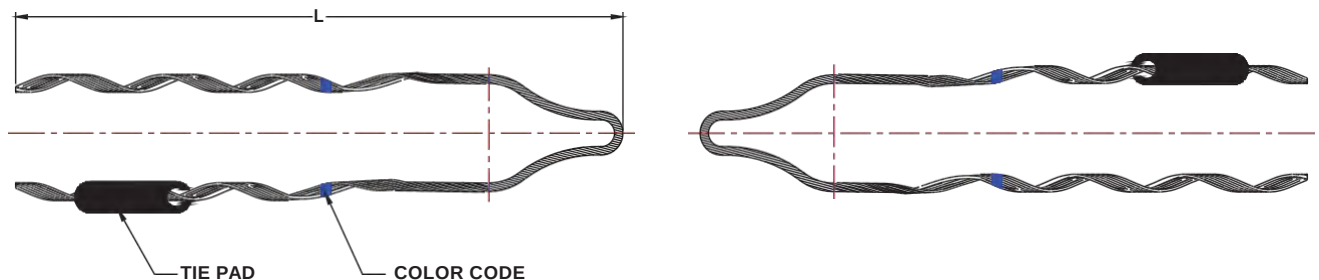


DOUBLE SUPPORT TIES

For use on:

ACSR, All-Aluminum, AWAC®, Aluminum Alloy, Compacted All-Aluminum
Compacted ACSR C-Neck & F-Neck Interchangeable
Headstyle Insulators

ANSI 55-2 Pin ANSI 55-3 Pin
ANSI 55-4 Pin ANSI 55-5 Pin 2-1/4" & 2-7/8"
ANSI 57-1 Post ANSI 57-2 Post Neck Diameters
ANSI 57-3 Post



Catalog Number C & F Neck	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Approx. Applied Length- Each Tie (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 4)								
DST4CF	.245	.277	#4, 6/1, 7/1 #4, 7W Alum. Alloy	50	11	13	Black/Yellow	Orange
DST3CF	.278	.315	#3, 7W Alum. Alloy #2, 7W All Alum.	50	11	13	Black/Yellow	Purple
DST2CF	.316	.357	#2, 6/1, 7/1 #2, 7W Alum. Alloy #1, 6/1	50	15	14	Black/Yellow	Red
DST10CF	.358	.405	1/0, 7W All Alum. 1/0, 6/1 1/0, 7W Alum. Alloy	50	16	14	Black/Yellow	Yellow
DST20CF	.406	.459	2/0, 7W All Alum. 2/0, 6/1 2/0, 7W Alum. Alloy	50	16	15	Black/Yellow	Blue
DST30CF	.460	.520	3/0, 7W All Alum. 3/0, 6/1 3/0, 7W Alum. Alloy	50	23	16	Black/Yellow	Orange
DST40CF	.521	.588	4/0, 7W All Alum. 4/0, 6/1 4/0, 7W Alum. Alloy	50	23	17	Black/Yellow	Red
DST266CF	.589	.665	266.8, 37W All Alum. 266.8, 18/1 336.4, 19W All Alum.	50	26	17	Black/Yellow	Purple
9/16" R. GROOVE (See Note 4)								
DST336CF	.666	.755	336.4, 18/1, 26/7 397. 5, 19W, All Alum. 400, 19W, 37W All Alum.	50	28	18	Black/Yellow	Brown
DST477CF	.756	.858	477, 19W, 37W All Alum. 477, 18/1, 24/7, 26/7	25	21	20	Black/Yellow	Red
5/8" R. GROOVE (See Note 4)								
DST556CF	.859	.968	556.5, 26/7 636, 18/1	25	26	21	Black/Yellow	Blue
3/4" R. GROOVE (See Note 4)								
DST795CF	.969	1.096	795, 37W, 61W All Alum. 715.5, 24/7 795, 54/7	25	28	22	Black/Yellow	Green
DST954CF	1.097	1.240	954, 54/7, 36/1 1033.5, 45/7 795, 26/7 954, 37W All Alum.	25	28	23	Black/Yellow	Yellow

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Diameter Range indicates the size of conductors that utilize the same tie.
- (2) "Nominal Conductor Size" indicates one of various conductors within each range.
- (3) The loop of the Double Support Ties on this page can accommodate either C or F neck insulators.
- (4) For the succeeding ranges, the insulator's top groove radius should be at least as large as shown above.
- (5) AWAC is a registered trademark of the Copperweld Co.



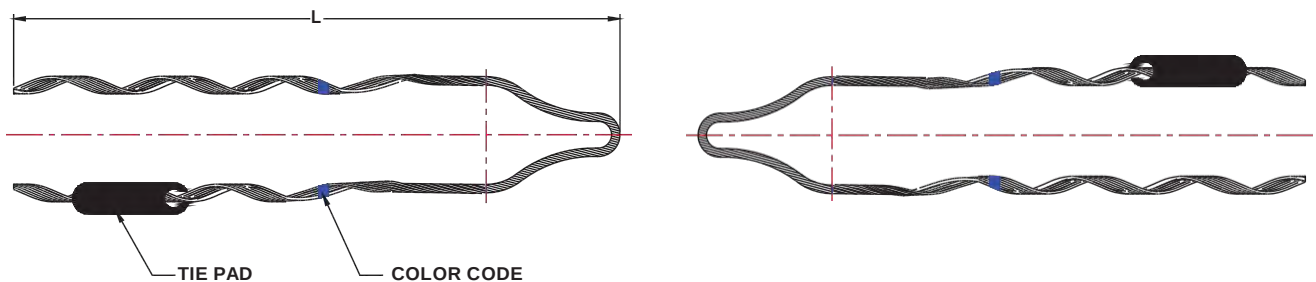
DOUBLE SUPPORT TIES

For use on:

ACSR, All-Aluminum, AWAC®, Aluminum Alloy, Compacted All-Aluminum
Compacted ACSR J-Neck Interchangeable
Headstyle Insulators

ANSI 55-6 Single Skirt Pin
ANSI 55-7 Single Skirt Pin
ANSI 56-1 Double Skirt Pin

3-1/2"
Neck Diameters



Catalog Number J Neck	Diameter Range (Inches)		Nominal Conductor Size	Units	Wt./Lbs.	Approx. Applied Length- Each Tie (Inches)	Insulator Identification Mark	Color Code
	Min.	Max.		Per Carton				
9/16" R. GROOVE (See Note 4)								
DST4J	.245	.277	#4, 6/1, 7/1 – #4, 7W Alum. Alloy	50	12	14	Green	Orange
DST3J	.278	.315	#3, 7W Alum. Alloy – #2, 7W All Alum.	50	12	14	Green	Purple
DST2J	.316	.357	#2, 6/1, 7/1 – #2, 7W Alum. Alloy – #1, 6/1	50	16	15	Green	Red
DST10J	.358	.405	1/0, 7W All Alum. 1/0, 6/1 1/0, 7W Alum. Alloy	50	17	15	Green	Yellow
DST20J	.406	.459	2/0, 7W All Alum. 2/0, 6/1 2/0, 7W Alum. Alloy	50	17	16	Green	Blue
DST30J	.460	.520	3/0, 7W All Alum. 3/0, 6/1 3/0, 7W Alum. Alloy	50	25	16	Green	Orange
DST40J	.521	.588	4/0, 7W All Alum. 4/0, 6/1 4/0, 7W Alum. Alloy	50	25	18	Green	Red
DST266J	.589	.665	266.8, 37W All Alum. 266.8, 18/1 336.4, 19W All Alum.	50	30	18	Green	Purple
9/16" R. GROOVE (See Note 4)								
DST336J	.666	.755	336.4, 18/1, 26/7 397. 5, 19W, All Alum. 400, 19W, 37W All Alum.	50	30	19	Green	Brown
DST477J	.756	.858	477, 19W, 37W All Alum. 477, 18/1, 24/7, 26/7	50	33	21	Green	Red
5/8" R. GROOVE (See Note 4)								
DST556J	.859	.968	556.5, 26/7 636, 18/1	25	26	22	Green	Blue
3/4" R. GROOVE (See Note 4)								
DST795J	.969	1.096	795, 37W, 61W All Alum. 715.5, 24/7 795, 54/7	25	28	23	Green	Green
DST954J	1.097	1.240	954, 54/7, 36/1 1033.5, 45/7 795, 26/7 954, 37W All Alum.	25	28	24	Green	Yellow

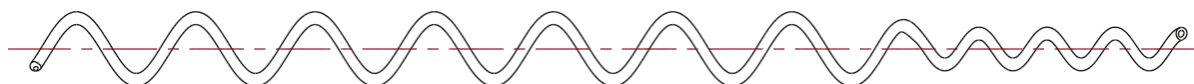
Right-hand lay standard

EXPLANATORY NOTES:

- (1) Diameter Range indicates the size of conductors that utilize the same tie.
- (2) "Nominal Conductor Size" indicates one of various conductors within each range.
- (3) The loop of the Double Support Ties on this page can accommodate J-neck insulators.
- (4) For the succeeding ranges, the insulator's top groove radius should be at least as large as shown above.
- (5) AWAC is a registered trademark of the Copperweld Co.



SPIRAL VIBRATION DAMPERS



For use on:
Bare Conductors, Shield Wires
and OPGW

SPAN LENGTH	800'	801'-1600'	1601'-2400'
STANDARD	2	4	6

CATALOG NUMBER	DIAMETER RANGE (INCHES)		UNITS	WT./LBS.	LENGTH (INCHES)
	MIN.	MAX.	PER CARTON		
SVD64	.174	.249	50	29	46
SVD42	.250	.326	50	31	49
SVD1/0	.327	.461	50	34	51
SVD3040	.462	.563	50	36	53
SVD336397	.564	.760	25	50	65

EXPLANATORY NOTES:

(1) Nominal Conductor size indicates one of various conductors within each range..



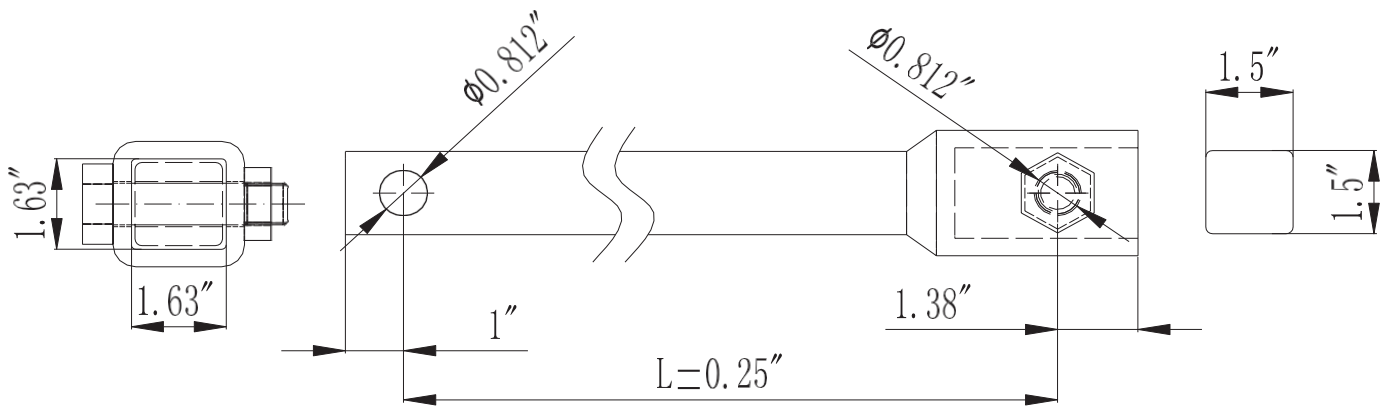
INDEX

SECTION 12 - HELIX ANCHOR PRODUCTS

SQUARE SHANK EXTENSIONS WITHOUT HELIX -----	12-1
SOLID SQUARE HUB SINGLE HELIX POWER DRIVEN ANCHORS-----	12-2
SOLID SQUARE HUB TWIN HELIX POWER DRIVEN ANCHORS -----	12-3
SOCKET ANCHORS 2.25"-----	12-4
SOCKET ANCHORS 2.74"-----	12-5
SOCKET ANCHORS 3.14"-----	12-6



SQUARE SHANK EXTENSIONS WITHOUT HELIX



1.5 Inch (3.8 cm) Square Solid Shaft; 5,500 Ft.-Lb (7,657 n-m) Ultimate Installing Torque (Use with 5,500 ft-lb lead section)		
Catalog Number	Length Inch (mm)	Weight Lbs (kg)
G6616-U	40 (1016)	28.2 (12.8)
G6620-U	58 (1473)	40 (18.1)
G6625-U	82 (2083)	57 (25.9)
G6630-U	118 (2997)	81 (36.7)

Materials: Steel with blue paint

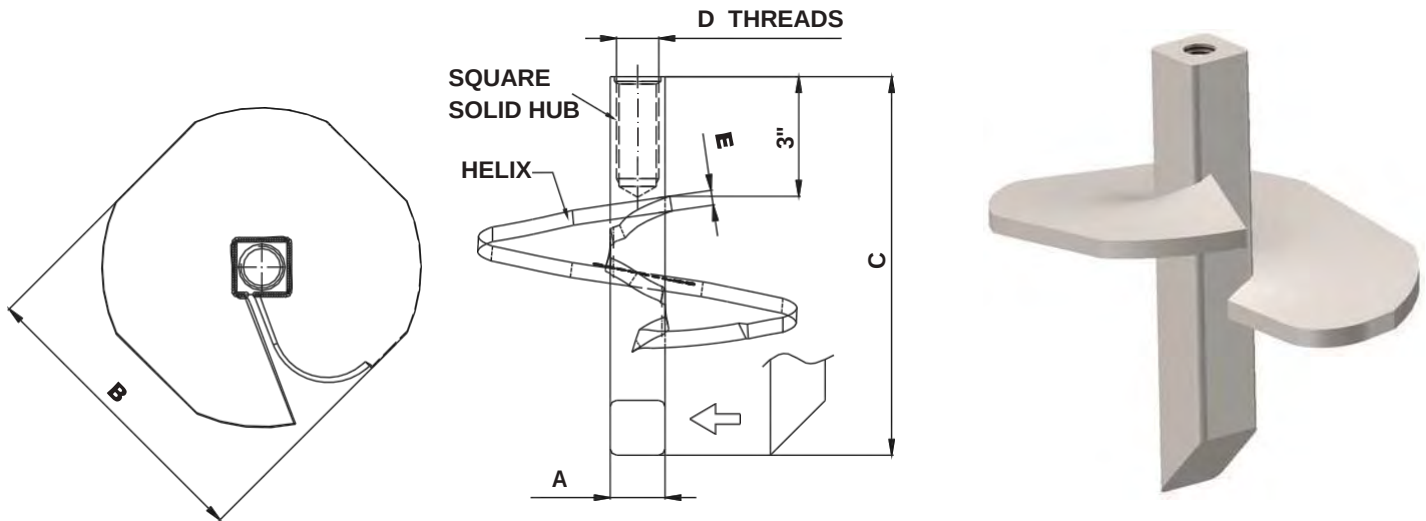
Extensions range from 3.5 feet (1.07 m) to 10 feet (3.0 m) in length

The integral forged socket end is bolted to the installed multi-helix or extension and the anchor installation resumed

The extension torque rating must match the lead section



SOLID SQUARE HUB SINGLE HELIX POWER DRIVEN ANCHORS



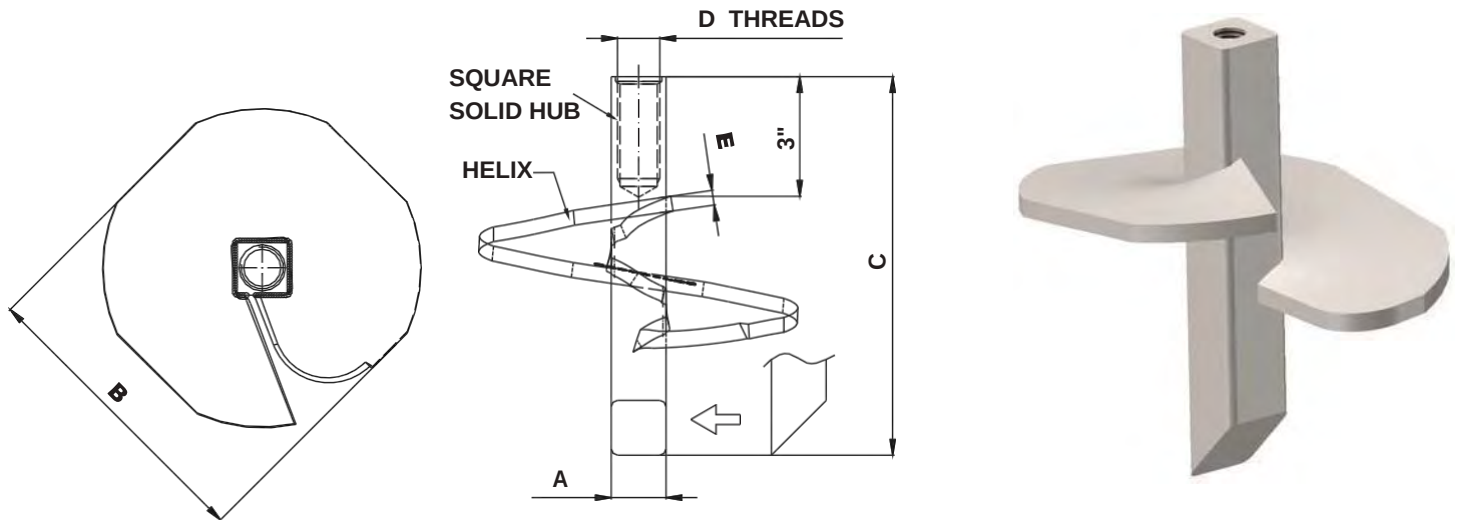
1-3/8" Square Solid Hub - 4000 Ft.Lb. Ultimate Installing Torque For Standard Installing Tool					
Catalog No.	A	B	C	D	E
G82	1-3/8	8	9-1/2	5/8	3/8
G84	1-3/8	8	9-1/2	3/4 or 1	3/8
G102	1-3/8	10	9-1/2	5/8	3/8
G104	1-3/8	10	9-1/2	3/4 or 1	3/8
G112	1-3/8	12	9-1/2	5/8	3/8
G114	1-3/8	12	9-1/2	3/4 or 1	3/8
G134	1-3/8	14	9-1/2	3/4 or 1	3/8

1-3/8" Square Solid Hub - 6000 Ft.Lb. Ultimate Installing Torque For Standard Installing Tool					
Catalog No.	A	B	C	D	E
G826	1-3/8	8	9-1/2	5/8	3/8
G846	1-3/8	8	9-1/2	3/4 or 1	3/8
G1026	1-3/8	10	9-1/2	5/8	3/8
G1046	1-3/8	10	9-1/2	3/4 or 1	3/8
G1126	1-3/8	12	9-1/2	5/8	3/8
G1146	1-3/8	12	9-1/2	3/4 or 1	3/8
G1346	1-3/8	14	9-1/2	3/4 or 1	3/8

Materials: Steel with blue paint



SOLID SQUARE HUB SINGLE HELIX POWER DRIVEN ANCHORS



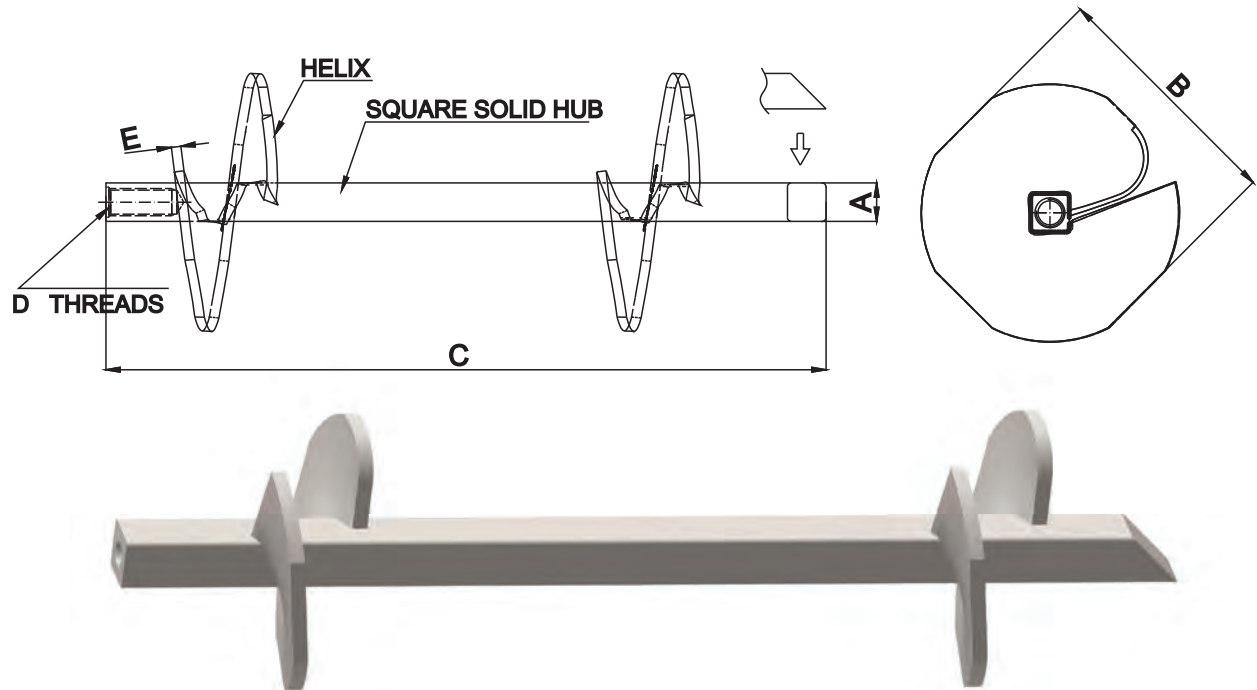
1-1/2" Square Solid Hub - 6000 Ft.Lb. Ultimate Installing Torque For Standard Installing Tool					
Catalog No.	A	B	C	D	E
G182	1-1/2	8	9-1/2	5/8	3/8
G184	1-1/2	8	9-1/2	3/4 or 1	3/8
G1102	1-1/2	10	9-1/2	5/8	3/8
G1104	1-1/2	10	9-1/2	3/4 or 1	3/8
G1114	1-1/2	12	9-1/2	3/4 or 1	3/8
G1134	1-1/2	14	9-1/2	3/4 or 1	3/8

1-1/2" Square Solid Hub - 7000 Ft.Lb. Ultimate Installing Torque For Standard Installing Tool					
Catalog No.	A	B	C	D	E
G1847	1-1/2	8	9-1/2	3/4 or 1	3/8
G11047	1-1/2	10	9-1/2	3/4 or 1	3/8
G11147	1-1/2	12	9-1/2	3/4 or 1	3/8

Materials: Steel with blue paint



SOLID SQUARE HUB TWIN HELIX POWER DRIVEN ANCHORS



1-3/8" Square Solid Hub - 4000 Ft.Lb. Ultimate Installing Torque For Standard Installing Tool					
Catalog No.	A	B	C	D	E
G84-2	1-3/8	(2)8	28	3/4 or 1	3/8
G104-2	1-3/8	(2)10	28	3/4 or 1	3/8

1-3/8" Square Solid Hub - 6000 Ft.Lb. Ultimate Installing Torque For Standard Installing Tool					
Catalog No.	A	B	C	D	E
G84-2-6	1-3/8	(2)8	28	3/4 or 1	3/8
G104-2-6	1-3/8	(2)10	28	3/4 or 1	3/8

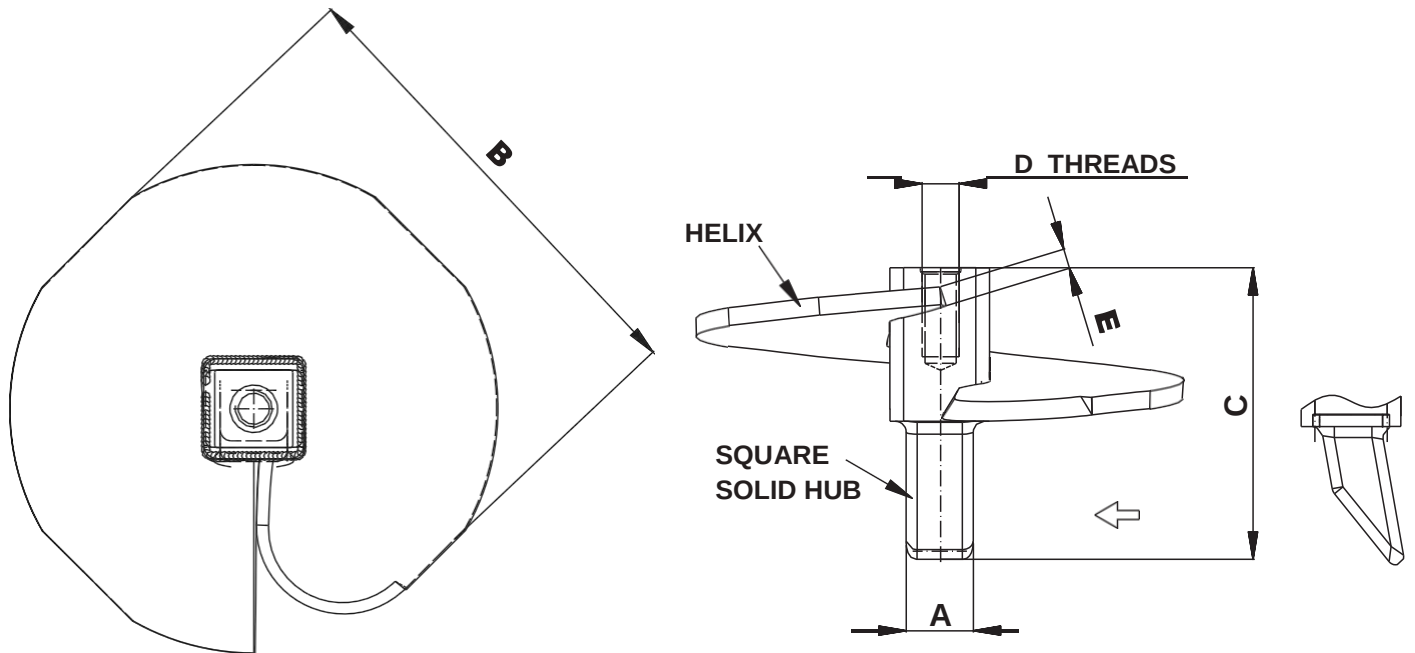
1-1/2" Square Solid Hub - 6000 Ft.Lb. Ultimate Installing Torque For Standard Installing Tool					
Catalog No.	A	B	C	D	E
G284	1-1/2	(2)8	28	3/4 or 1	3/8
G2104	1-1/2	(2)10	28	3/4 or 1	3/8

1-1/2" Square Solid Hub - 7000 Ft.Lb. Ultimate Installing Torque For Standard Installing Tool					
Catalog No.	A	B	C	D	E
G2447	1-1/2	(2)4	28	3/4 or 1	3/8
G2847	1-1/2	(2)8	28	3/4 or 1	3/8
G21047	1-1/2	(2)10	28	3/4 or 1	3/8

Materials: Steel with blue paint



SOCKET ANCHORS

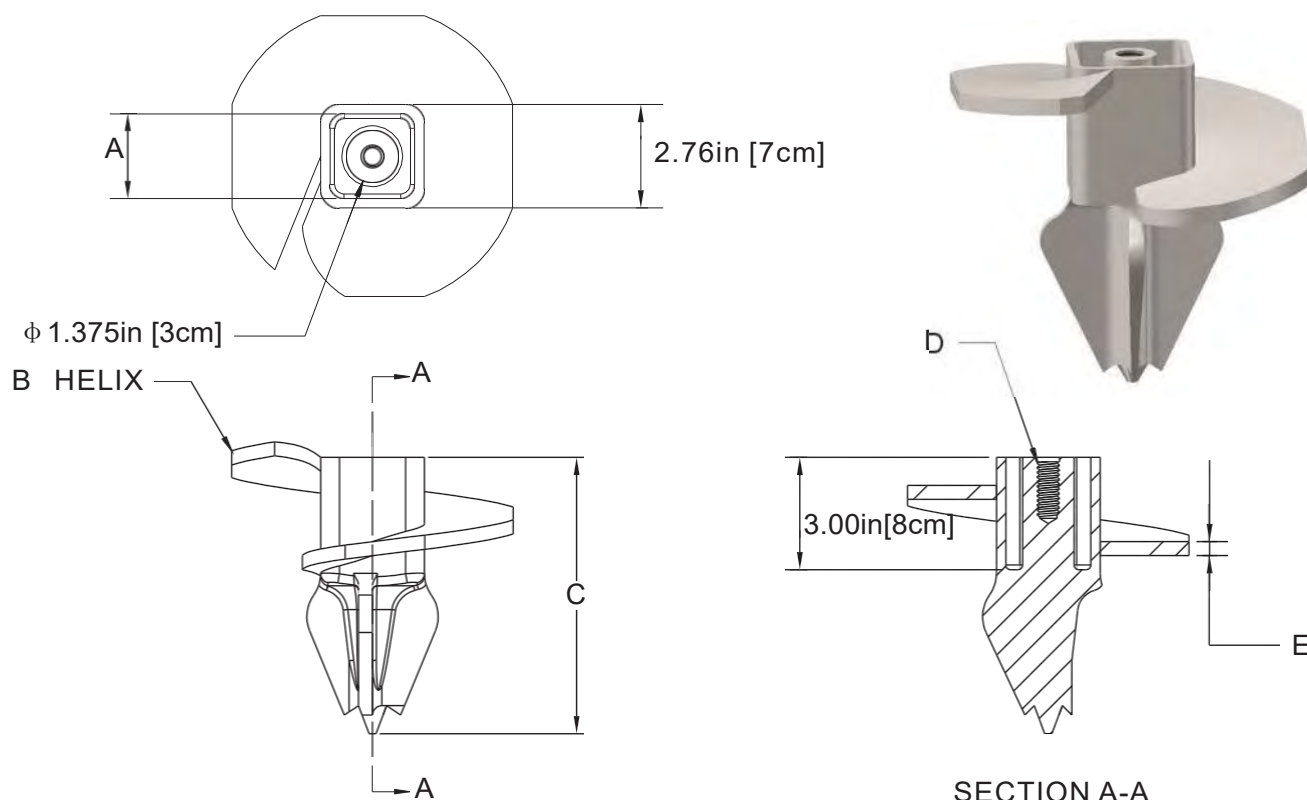


Catalog No.	A	B	C	D	E
GTX-134	2-1/4	14	8-3/8	1	3/8

Materials: Steel with blue paint
2-1/4" Socket anchor, 10000ft.lb. Max Working.



SOCKET ANCHORS



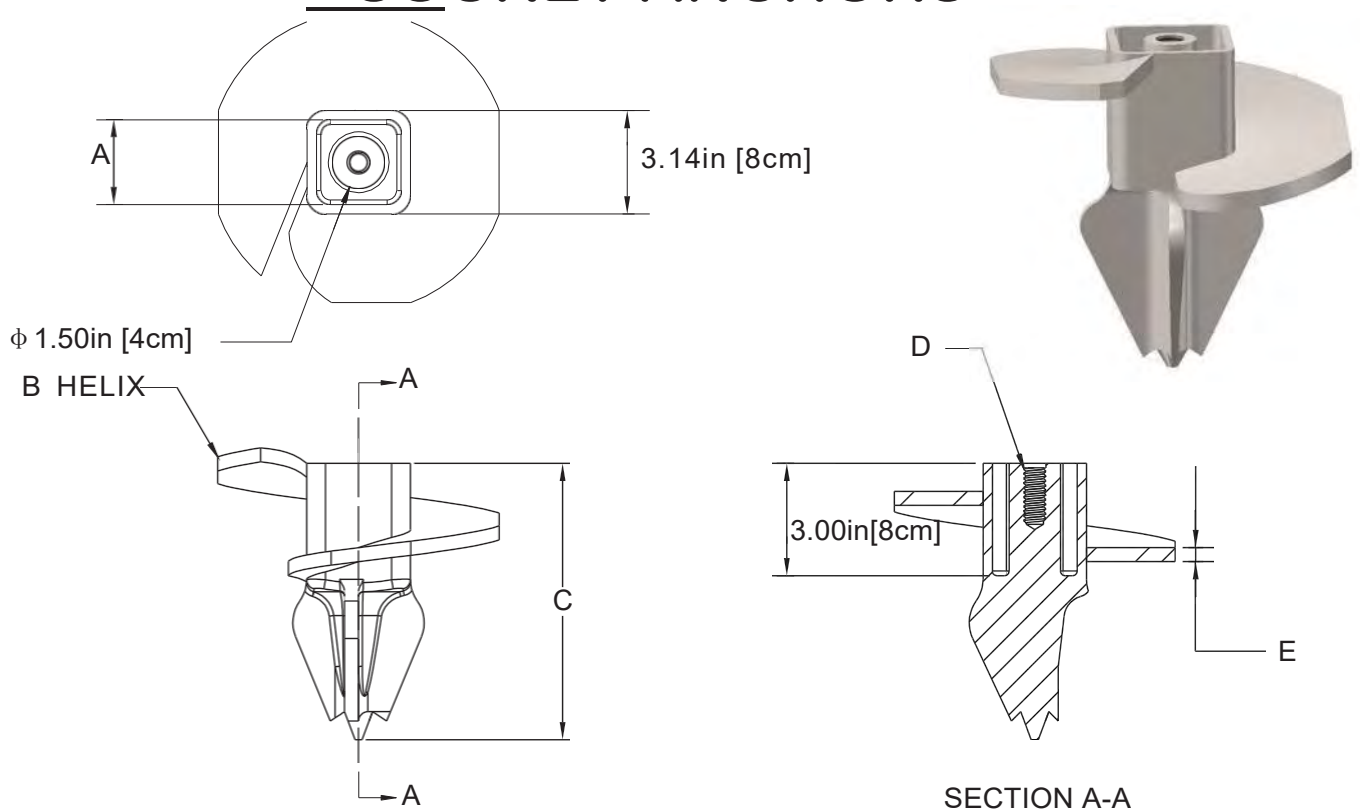
2-1/4" Socket Anchor - 10,000 Ft.Lb. Ultimate Installing Torque, 3/8" helix For Standard Installing Tool					
Catalog No.	A	B	C	D	E
G225-82	2-1/4	8	7-3/8	5/8	3/8
G225-84	2-1/4	8	7-3/8	3/4 or 1	3/8
G225-102	2-1/4	10	7-3/8	5/8	3/8
G225-104	2-1/4	10	7-3/8	3/4 or 1	3/8
G225-112	2-1/4	12	7-3/8	5/8	3/8
G225-114	2-1/4	12	7-3/8	3/4 or 1	3/8
G225-134	2-1/4	14	7-3/8	3/4 or 1	3/8

2-1/4" Socket Anchor - 10,000 Ft.Lb. Ultimate Installing Torque, 1/2" helix For Standard Installing Tool					
Catalog No.	A	B	C	D	E
GH225-82	2-1/4	8	7-3/8	5/8	1/2
GH225-84	2-1/4	8	7-3/8	3/4 or 1	1/2
GH225-102	2-1/4	10	7-3/8	5/8	1/2
GH225-104	2-1/4	10	7-3/8	3/4 or 1	1/2
GH225-112	2-1/4	12	7-3/8	5/8	1/2
GH225-114	2-1/4	12	7-3/8	3/4 or 1	1/2
GH225-134	2-1/4	14	7-3/8	3/4 or 1	1/2

Materials: Steel with blue paint



SOCKET ANCHORS



2-1/2" Socket Anchor - 10,000 Ft.Lb. Ultimate Installing Torque, 3/8" helix For Standard Installing Tool					
Catalog No.	A	B	C	D	E
G250-82	2-1/2	8	8	5/8	3/8
G250-84	2-1/2	8	8	3/4 or 1	3/8
G250-102	2-1/2	10	8	5/8	3/8
G250-104	2-1/2	10	8	3/4 or 1	3/8
G250-112	2-1/2	12	8	5/8	3/8
G250-114	2-1/2	12	8	3/4 or 1	3/8
G250-134	2-1/2	14	8	3/4 or 1	3/8

2-1/2" Socket Anchor - 15,000 Ft.Lb. Ultimate Installing Torque, 1/2" helix For Standard Installing Tool					
Catalog No.	A	B	C	D	E
GH250-82	2-1/2	8	8	5/8	1/2
GH250-84	2-1/2	8	8	3/4 or 1	1/2
GH250-102	2-1/2	10	8	5/8	1/2
GH250-104	2-1/2	10	8	3/4 or 1	1/2
GH250-112	2-1/2	12	8	5/8	1/2
GH250-114	2-1/2	12	8	3/4 or 1	1/2
GH250-134	2-1/2	14	8	3/4 or 1	1/2

Materials: Steel with blue paint



INDEX

SECTION 13 – OPGW / ADSS FITTINGS

FORMED GRIP DEAN-END SHORT SPAN ADSS	13-1
FORMED GRIP DEAD-END MEDIUM SPAN ADSS.....	13-2
FORMED GRIP DEAD-END LONG SPAN ADSS	13-3
SUSPENSION UNITS 100/200m (328/656 FT)	13-4
FORMED GRIP ADSS SUSPENSION UNITS MEDIUM / LONG SPAN	13-5A
FORMED GRIP ADSS SUSPENSION UNITS MEDIUM / LONG SPAN	13-5B
FORMED GRIP ADSS SUSPENSION UNITS MEDIUM / LONG SPAN	13-5C
DOUBLE FORMED GRIP ADSS SUSPENSION UNITS	13-6
FORMED GRIP DEAD-END FOR OPGW.....	13-7
FORMED GRIP SUSPENSION UNITS FOR OPGW	13-8A
FORMED GRIP SUSPENSION UNITS FOR OPGW	13-8B
DOUBLE FORMED GRIP SUSPENSION UNITS FOR OPGW.....	13-9A
DOUBLE FORMED GRIP SUSPENSION UNITS FOR OPGW.....	13-9B
ACCESSORIES	13-10A
ACCESSORIES	13-10B
FASTENING CLAMPS	13-11
SPIRAL VIBRATION DAMPER.....	13-12
STOCKBRIDGE VIBRATION DAMPER & ARMOR GUARDS.....	13-13A
STOCKBRIDGE VIBRATION DAMPER & ARMOR GUARDS.....	13-13B



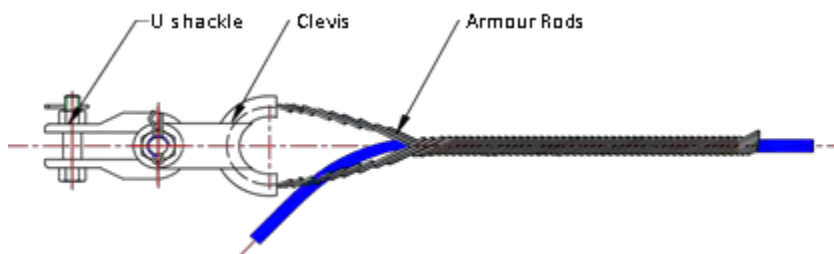
INDEX

SECTION 13 – OPGW / ADSS FITTINGS

JOINT BOXES -----	13-14
CABLE STORAGE ASSEMBLIES -----	13-15
TANGENT SUPPORT CLAMPS -----	13-16



FORMED GRIP DEAD-END SHORT SPAN ADSS



MODEL.	CABLE DIAMETER mm (in)	LENGTH mm(in)	WEIGHT Kg (Lbs)	GENERAL ASSEMBLY	
				U-STYLE	THIMBLE CLEVIS
ANJ 0950	9.0-9.5 (.35-.37)	800mm 31.5"	0.38 kg (0.84 lb)	U-7	XH 020
ANJ 1050	9.6-10.5 (.38-.41)	850mm 33.5"	0.49 kg (1.08 lb)	U-7	XH 020
ANJ 1160	10.6-11.6 (.42-.46)	900mm 35.4"	0.52 kg (1.14 lb)	U-7	XH 020
ANJ 1280	11.7-12.8 (.46-.50)	960mm 37.8"	0.65 kg (1.43 lb)	U-7	XH 020
ANJ 1410	12.9-14.1 (.51-.56)	1080mm 42.5"	0.82 kg (1.80 lb)	U-7	XH 020
ANJ 1560	14.2-15.6 (.56-.61)	1160mm 45.7"	1.22 kg (2.68 lb)	U-7	XH 020

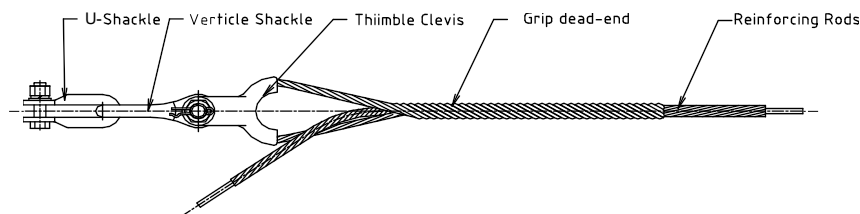
FEATURES: SPAN LENGTH < 100M (328')

MATERIAL:

- * DEAD-END -- ALUMINUM CLAD STEEL RODS
- * THIMBLE – HOT DIPPED GALVANIZED STEEL



FORMED GRIP DEAD-END MEDIUM SPAN ADSS



MODEL.	CABLE DIAMETER mm (in)	STRENGTH kN (Lb)	SPAN m(ft)	GRIP LENGTH mm(in)	ROD LENGTH mm(in)	WEIGHT Kg (Lbs)	GENERAL ASSEMBLY		
							VERTICAL SHACKLE/ EXTENSION LINK	THIMBLE CLEVIS	U- SHACKLE
ANY 0940 20	8.6-9.4 (0.34-0.37")	20kN (4496 Lb)	200/300m 656-984'	800mm 31.5"	1100mm 43.3"	0.88 kg (1.94 lb)	ZH-7	XH 020	U-7
ANY 1010 20	9.5-10.1 (0.37-0.40")	20kN (4496 Lb)	200/300m 656-984'	800mm 31.5"	1100mm 43.3"	1.02 kg (2.24 lb)	ZH-7	XH 020	U-7
ANY 1070 20	10.2-10.7 (0.40-0.42")	20kN (4496 Lb)	200/300m 656-984'	800mm 31.5"	1100mm 43.3"	1.06 kg (2.33 lb)	ZH-7	XH 020	U-7
ANY 1140 20	10.8-11.4 (0.42-0.45")	20kN (4496 Lb)	200/300m 656-984'	800mm 31.5"	1100mm 43.3"	1.08 kg (2.38 lb)	ZH-7	XH 020	U-7
ANY 1220 20	11.5-12.2 (0.45-0.48")	20kN (4496 Lb)	200/300m 656-984'	800mm 31.5"	1100mm 43.3"	1.35 kg (2.97 lb)	ZH-7	XH 020	U-7
ANY 1290 20	12.3-12.9 (0.48-0.51")	20kN (4496 Lb)	200/300m 656-984'	800mm 31.5"	1100mm 43.3"	1.38 kg (3.04 lb)	ZH-7	XH 020	U-7
ANY 1370 20	13.0-13.7 (0.51-.54")	20kN (4496 Lb)	200/300m 656-984'	800mm 31.5"	1100mm 43.3"	1.54 kg (3.39 lb)	ZH-7	XH 020	U-7
ANY 1460 20	13.8-14.6 (0.54-.57")	20kN (4496 Lb)	200/300m 656-984'	800mm 31.5"	1100mm 43.3"	1.54 kg (3.39 lb)	ZH-7	XH 020	U-7
ANY 1550 20	14.7-15.5 (0.58-.61")	20kN (4496 Lb)	200/300m 656-984'	800mm 31.5"	1100mm 43.3"	1.54 kg (3.39 lb)	ZH-7	XH 020	U-7
ANY 0940 30	8.6-9.4 (0.34-0.37")	30kN (6744 Lb)	300/400m 984-1312'	1100mm 43.3"	1400mm 55.1"	1.57 kg (3.46 lb)	ZH-7	XH 020	U-7
ANY 1010 30	9.5-10.1 (0.37-0.40")	30kN (6744 Lb)	300/400m 984-1312'	1100mm 43.3"	1400mm 55.1"	1.6 kg (3.53 lb)	ZH-7	XH 020	U-7
ANY 1070 30	10.2-10.7 (0.40-0.42")	30kN (6744 Lb)	300/400m 984-1312'	1100mm 43.3"	1400mm 55.1"	1.06 kg (2.33 lb)	ZH-7	XH 020	U-7
ANY 1140 30	10.8-11.4 (0.42-0.45")	30kN (6744 Lb)	300/400m 984-1312'	1100mm 43.3"	1400mm 55.1"	1.08 kg (2.38 lb)	ZH-7	XH 020	U-7
ANY 1220 30	11.5-12.2 (0.45-0.48")	30kN (6744 Lb)	300/400m 984-1312'	1100mm 43.3"	1400mm 55.1"	1.35 kg (2.97 lb)	ZH-7	XH 020	U-7
ANY 1290 30	12.3-12.9 (0.48-0.51")	30kN (6744 Lb)	300/400m 984-1312'	1100mm 43.3"	1400mm 55.1"	1.38 kg (3.04 lb)	ZH-7	XH 020	U-7
ANY 1370 30	13.0-13.7 (0.51-.54")	30kN (6744 Lb)	300/400m 984-1312'	1100mm 43.3"	1400mm 55.1"	2.04kg (4.49lb)	ZH-7	XH 020	U-7
ANY 1460 30	13.8-14.6 (0.54-.57")	30kN (6744 Lb)	300/400m 984-1312'	1100mm 43.3"	1400mm 55.1"	2.08kg (4.58lb)	ZH-7	XH 020	U-7
ANY 1550 30	14.7-15.5 (0.58-.61")	30kN (6744 Lb)	300/400m 984-1312'	1100mm 43.3"	1400mm 55.1"	2.12kg (4.66lb)	ZH-7	XH 020	U-7

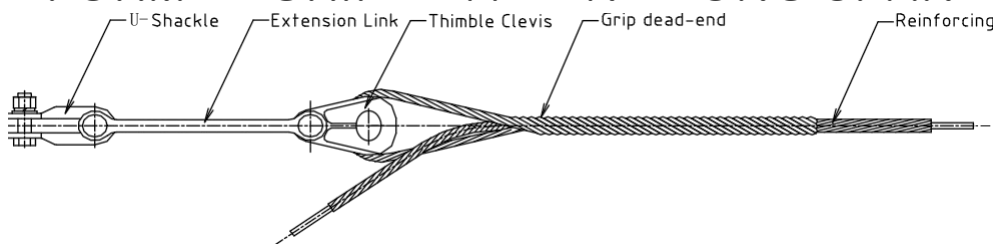
FEATURES: SPAN LENGTH 200m (656') – 400m (1312')

MATERIAL:

- * ARMOR RODS -- ALUMINUM CLAD STEEL RODS
- * DEAD-END -- ALUMINUM CLAD STEEL RODS
- * THIMBLE – HOT DIPPED GALVANIZED DUCTILE IRON (STRENGTH 70Kni/157361Lbs)

ADDITIONAL PRODUCTS AVAILABLE, CONTACT US FOR ANY ITEMS NOT LISTED HERE

FORMED GRIP DEAD-END LONG SPAN



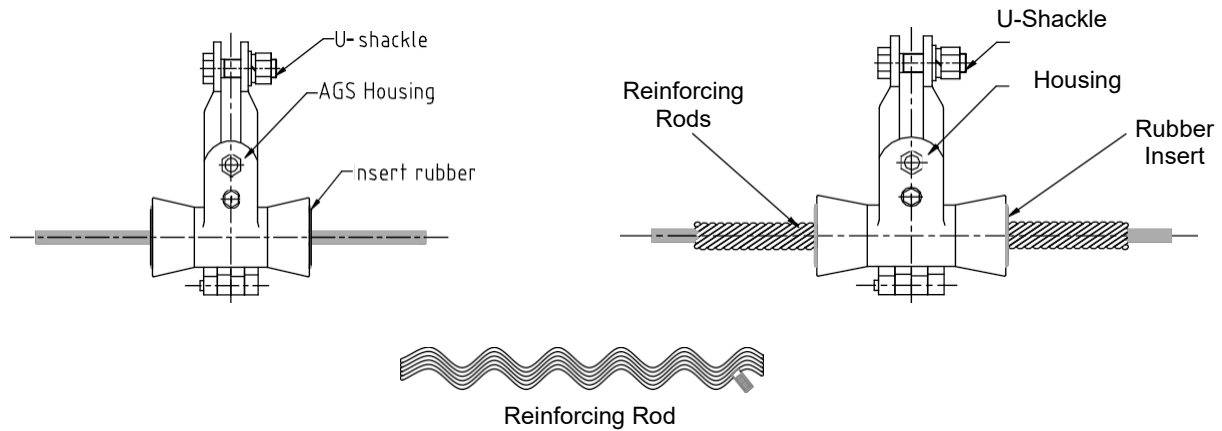
MODEL.	CABLE DIAMETER mm (in)	STRENGTH kN (Lb)	SPAN m(ft)	GRIP LENGTH mm(in)	ROD LENGTH mm(in)	WEIGHT Kg (Lbs)	GENERAL ASSEMBLY		
							VERTICAL SHACKLE/ EXTENSION LINK	THIMBLE CLEVIS	U-SHACKLE
ANY 1220 40	11.5-12.2 (0.45-.48")	40kN (89992 Lb)	400/500m 1312-1640'	1260mm 49.6"	1800mm 70.9"	2.14 kg (4.71 lb)	TYC 300 080	XH 080	U-7
ANY 1290 40	12.3-12.9 (0.48-.51")	40kN (89992 Lb)	400/500m 1312-1640'	1260mm 49.6"	1800mm 70.9"	2.19 kg (4.82 lb)	TYC 300 080	XH 080	U-7
ANY 1370 40	13.0-13.7 (0.51-.54")	40kN (89992 Lb)	400/500m 1312-1640'	1260mm 49.6"	1800mm 70.9"	2.44 kg (5.37 lb)	TYC 300 080	XH 080	U-7
ANY 1460 40	13.8-14.6 (0.54-.57")	40kN (89992 Lb)	400/500m 1312-1640'	1260mm 49.6"	1800mm 70.9"	2.49 kg (5.48 lb)	TYC 300 080	XH 080	U-7
ANY 1550 40	14.7-15.5 (0.58-.61")	40kN (89992 Lb)	400/500m 1312-1640'	1260mm 49.6"	1800mm 70.9"	2.54 kg (5.60 lb)	TYC 300 080	XH 080	U-7
ANY 1650 40	15.6-16.5 (0.61-.65")	40kN (89992 Lb)	400/500m 1312-1640'	1260mm 49.6"	1800mm 70.9"	2.92 kg (6.42 lb)	TYC 300 080	XH 080	U-7
ANY 1370 50	13.0-13.7 (0.51-.54")	50kN (11240 Lb)	500-700m 1640-2296'	1400mm 55.1"	2000mm 78.7"	2.7 kg (5.9 lb)	TYC 300 080	XH 080	U-7
ANY 1460 50	13.8-14.6 (0.54-.57")	50kN (11240 Lb)	500-700m 1640-2296'	1400mm 55.1"	2000mm 78.7"	2.76 kg (6.07 lb)	TYC 300 080	XH 080	U-7
ANY 1550 50	14.7-15.5 (0.58-.61")	50kN (11240 Lb)	500-700m 1640-2296'	1400mm 55.1"	2000mm 78.7"	2.81 kg (6.18 lb)	TYC 300 080	XH 080	U-7
ANY 1650 50	15.6-16.5 (0.61-.65")	50kN (11240 Lb)	500-700m 1640-2296'	1400mm 55.1"	2000mm 78.7"	3.23 kg (7.11 lb)	TYC 300 080	XH 080	U-7
ANY 1370 60	13.0-13.7 (0.51-.54")	60kN (13488 Lb)	600-800m 1968-2624'	1560mm 61.4"	2200mm 86.6"	2.98 kg (6.56 lb)	TYC 300 080	XH 080	U-7
ANY 1460 60	13.8-14.6 (0.54-.57")	60kN (13488 Lb)	600-800m 1968-2624'	1560mm 61.4"	2200mm 86.6"	3.04kg (6.69lb)	TYC 300 080	XH 080	U-7
ANY 1550 60	14.7-15.5 (0.58-.61")	60kN (13488 Lb)	600-800m 1968-2624'	1560mm 61.4"	2200mm 86.6"	3.11kg (6.84lb)	TYC 300 080	XH 080	U-7
ANY 1650 60	15.6-16.5 (0.61-.65")	60kN (13488 Lb)	600-800m 1968-2624'	1560mm 61.4"	2200mm 86.6"	3.57kg (7.85lb)	TYC 300 080	XH 080	U-7
ANY 1460 70	13.8-14.6 (0.54-.57")	70kN (15736 Lb)	700-900m 2296-2952'	1600mm 63.0"	2400mm 94.5"	3.2kg (7.04lb)	TYC 300 080	XH 080	U-7
ANY 1550 70	14.7-15.5 (0.58-.61")	70kN (15736 Lb)	700-900m 2296-2952'	1600mm 63.0"	2400mm 94.5"	3.27kg (7.19lb)	TYC 300 080	XH 080	U-7
ANY 1650 70	15.6-16.5 (0.61-.65")	70kN (15736 Lb)	700-900m 2296-2952'	1600mm 63.0"	2400mm 94.5"	3.77kg (8.29lb)	TYC 300 080	XH 080	U-7
ANY 1750 70	16.6-17.5 (0.65-.69")	70kN (15736 Lb)	700-900m 2296-2952'	1600mm 63.0"	2400mm 94.5"	4.12kg (9.06lb)	TYC 300 080	XH 080	U-7
ANY 1870 70	17.6-18.7 (0.69-.74)	70kN (15736 Lb)	700-900m 2296-2952'	1600mm 63.0"	2400mm 94.5"	4.64kg (10.21lb)	TYC 300 080	XH 080	U-7
ANY 1550 80	14.7-15.5 (0.58-.61")	80kN (17984 Lb)	800-1000m 2624-3280'	2000mm 78.7"	3000mm 118.1"	4.08kg (8.98lb)	TYC 300 120	XH 120	U-10
ANY 1650 80	15.6-16.5 (0.61-.65")	80kN (17984 Lb)	800-1000m 2624-3280'	2000mm 78.7"	3000mm 118.1"	4.71kg (10.36lb)	TYC 300 120	XH 120	U-10
ANY 1750 80	16.6-17.5 (0.65-.69")	80kN (17984 Lb)	800-1000m 2624-3280'	2000mm 78.7"	3000mm 118.1"	5.14kg (11.31lb)	TYC 300 120	XH 120	U-10
ANY 1870 80	17.6-18.7 (0.69-.74)	80kN (17984 Lb)	800-1000m 2624-3280'	2000mm 78.7"	3000mm 118.1"	5.79kg (12.74lb)	TYC 300 120	XH 120	U-10

MATERIAL:

- * ARMOR RODS – ALUMINUM CLAD STEEL RODS
- * DEAD-END – ALUMINUM CLAD STEEL RODS
- * THIMBLE – HOT DIPPED GALVANIZED DUCTILE IRON (STRENGTH 70Kn / 157361 lbs)

FEATURES: SPAN LENGTH 200m (656') – 1000m (3280')

SUSPENSION UNITS 100/200m (328/656')



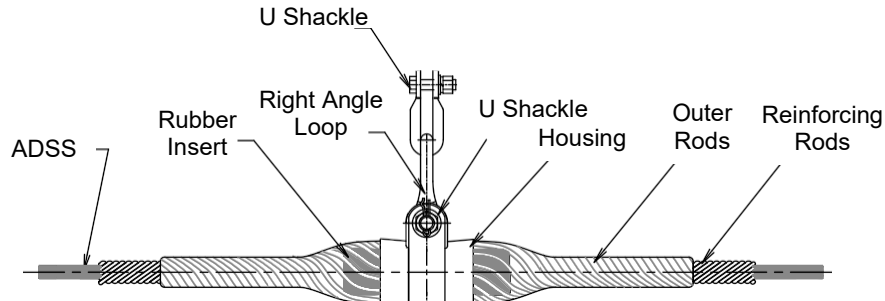
NAME.	SPECIFICATI ON	CABLE DIAMETER mm (in)	SPAN m(ft)	ROD LENGTH mm(in)	WEIGHT Kg (Lbs)	GENERAL ASSEMBLY	
						SUSPENSION WEIGHT	U- SHACKLE
ADSS SUSPENSION UNITS 100m	AXQ 1110	9.0-11.1 (0.35-0.44")	100m 328'	--	--	XGT-02-111 1.08kg (2.38lb)	U-7
	AXQ 1330	11.2-13.3 (0.44-0.52")	100m 328'	--	--	XGT-02-133 1.04kg (2.29lb)	U-7
	AXQ 1550	13.4-15.5 (0.53-0.61")	100m 328'	--	--	XGT-02-155 1.00kg (2.2lb)	U-7
ADSS SUSPENSION UNITS 200m	AXD 1010	9.7-10.1 (0.38-0.40")	200m 656'	800mm 31.5"	0.3 kg (0.66 lb)	XGT-02-197 0.98kg (2.16lb)	U-7
	AXD 1060	10.2-10.6 (0.40-0.42")	200m 656'	800mm 31.5"	0.3 kg (0.66 lb)	XGT-02-197 0.98kg (2.16lb)	U-7
	AXD 1110	10.7-11.1 (0.42-0.44")	200m 656'	800mm 31.5"	0.3 kg (0.66 lb)	XGT-02-197 0.98kg (2.16lb)	U-7
	AXD 1160	11.2-11.6 (0.44-0.46")	200m 656'	800mm 31.5"	0.33 kg (0.73 lb)	XGT-02-219 0.94kg (2.07lb)	U-7
	AXD 1170	11.7-11.7 (0.46-0.46")	200m 656'	800mm 31.5"	0.33 kg (0.73 lb)	XGT-02-219 0.94kg (2.07lb)	U-7
	AXD 1200	11.8-12.0 (0.46-0.47")	200m 656'	860mm 33.9"	0.36 kg (0.79 lb)	XGT-02-219 0.94kg (2.07lb)	U-7
	AXD 1270	12.1-12.7 (0.48-0.5")	200m 656'	860mm 33.9"	0.36 kg (0.79 lb)	XGT-02-219 0.94kg (2.07lb)	U-7
	AXD 1290	12.8-12.9 (0.5-0.51")	200m 656'	900mm 35.4"	0.41 kg (0.9 lb)	XGT-02-219 0.94kg (2.07lb)	U-7
	AXD 1360	13.0-13.6 (0.51-0.54")	200m 656'	900mm 35.4"	0.41 kg (0.9 lb)	XGT-02-219 0.94kg (2.07lb)	U-7
	AXD 1410	13.7-14.1 (0.54-0.56")	200m 656'	900mm 35.4"	0.41 kg (0.9 lb)	XGT-02-241 0.9kg (1.98lb)	U-7
	AXD 1430	14.2-14.3 (0.55-0.55")	200m 656'	1000mm 39.4"	0.5 kg (1.1 lb)	XGT-02-241 0.9kg (1.98lb)	U-7
	AXD 1450	14.4-14.5 (0.56-0.57")	200m 656'	1000mm 39.4"	0.5 kg (1.1 lb)	XGT-02-241 0.9kg (1.98lb)	U-7
	AXD 1510	14.6-15.1 (0.57-0.59")	200m 656'	1000mm 39.4"	0.5 kg (1.1 lb)	XGT-02-241 0.9kg (1.98lb)	U-7

MATERIAL:

- * ARMOR RODS – ALUMINUM ALLOY
- * HOUSING – ALUMINUM ALLOY
- * INSERT – EPDM RUBBER



FORMED GRIP ADSS SUSPENSION UNITS MEDIUM / LONG SPAN



MODEL.	CABLE DIAMETER mm (in)	OUTER ROD LENGTH mm (in)	REINFORCING ROD LENGTH mm(in)	SPAN m(ft)	WEIGHT Kg (Lbs)	GENERAL ASSEMBLY	
						SUSPENSION	U-SHACKLE
AXY 0960 400	9.0-9.6 (0.35-0.38")	1100mm 43.3"	1600mm 63.0"	300/400m 984-1312'	1.53 kg (3.37 lb)	ZH-7	U-7
AXY 1010 400	9.7-10.1 (0.38-0.40")	1100mm 43.3"	1600mm 63.0"	300/400m 984-1312'	1.59 kg (3.51 lb)	ZH-7	U-7
AXY 1060 400	10.2-10.6 (0.40-0.42")	1100mm 43.3"	1600mm 63.0"	300/400m 984-1312'	1.69 kg (3.73 lb)	ZH-7	U-7
AXY 1110 400	10.7-11.1 (0.42-0.44")	1100mm 43.3"	1600mm 63.0"	300/400m 984-1312'	1.69 kg (3.73 lb)	ZH-7	U-7
AXY 1160 400	11.2-11.6 (0.44-0.46")	1100mm 43.3"	1600mm 63.0"	300/400m 984-1312'	1.76 kg (3.88 lb)	ZH-7	U-7
AXY 1170 400	11.7-11.7 (0.46-0.46")	1100mm 43.3"	1600mm 63.0"	300/400m 984-1312'	1.76 kg (3.88 lb)	ZH-7	U-7
AXY 1200 400	11.8-12.0 (0.46-0.47")	1200mm 47.2"	1720mm 67.7"	300/400m 984-1312'	1.9 kg (4.19 lb)	ZH-7	U-7
AXY 1270 400	12.1-12.7 (0.48-0.5")	1200mm 47.2"	1720mm 67.7"	300/400m 984-1312'	1.9 kg (4.21 lb)	ZH-7	U-7
AXY 1290 400	12.8-12.9 (0.5-0.51")	1200mm 47.2"	1720mm 67.7"	300/400m 984-1312'	2.08 kg (4.59 lb)	ZH-7	U-7
AXY 1360 400	13.0-13.6 (0.51-0.54")	1300mm 51.1"	1840mm 72.4"	300/400m 984-1312'	2.25 kg (4.96 lb)	ZH-7	U-7
AXY 1410 400	13.7-14.1 (0.54-0.56")	1300mm 51.1"	1840mm 72.4"	300/400m 984-1312'	2.25 kg (4.96 lb)	ZH-7	U-7
AXY 1430 400	14.2-14.3 (0.55-0.55")	1300mm 51.1"	1840mm 72.4"	300/400m 984-1312'	2.44 kg (5.38 lb)	ZH-7	U-7
AXY 1450 400	14.4-14.5 (0.56-0.57")	1300mm 51.1"	1840mm 72.4"	300/400m 984-1312'	2.44 kg (5.38 lb)	ZH-7	U-7
AXY 1510 400	14.6-15.1 (0.57-0.59")	1300mm 51.1"	1840mm 72.4"	300/400m 984-1312'	2.44 kg (5.38 lb)	ZH-7	U-7

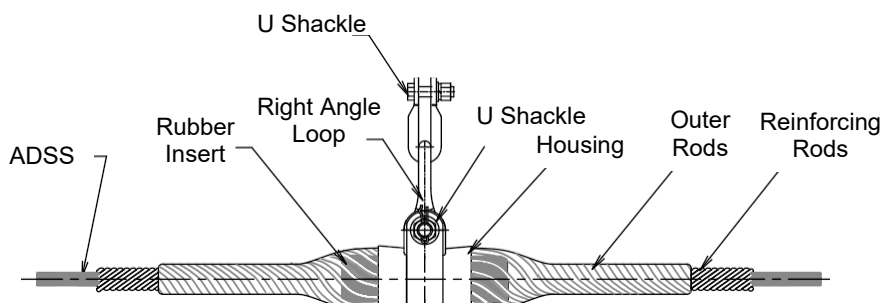
MATERIAL:

- * ARMOR RODS – ALUMINUM ALLOY
- * HOUSING – ALUMINUM ALLOY
- * INSERT – EPDM RUBBER

STRENGTH 70KN (15736LBS). HOLDING STRENGTH NO LESS THAN 10-20% OF ADSS CABLE. SUITABLE FOR ANGLES LESS THAN 30°. FOR ANGLES BETWEEN 30° – 60°, DOUBLE ARMOR GRIP SUSPENSION UNITS ARE RECOMMENDED. FOR GENERAL ASSEMBLY, U-7 AND ZH-7 ARE USUALLY APPLIED. OTHER LINKS FOUND IN APPENDIXES.

ADDITIONAL PRODUCTS AVAILABLE, CONTACT US FOR ANY ITEMS NOT LISTED HERE

FORMED GRIP ADSS SUSPENSION UNITS MEDIUM / LONG SPAN



MODEL.	CABLE DIAMETER mm (in)	OUTER ROD LENGTH mm (in)	REINFORCING ROD LENGTH mm(in)	SPAN m(ft)	WEIGHT Kg (Lbs)	GENERAL ASSEMBLY	
						SUSPENSION	U-SHACKLE
AXY 1270 600	12.1-12.7 (0.48-0.5")	1300mm 51.1"	1800mm 70.9"	500/600m 1640-1968'	2.03 kg (4.48 lb)	ZH-7	U-7
AXY 1290 600	12.8-12.9 (0.5-0.51")	1300mm 51.1"	1800mm 70.9"	500/600m 1640-1968'	2.23 kg (4.92 lb)	ZH-7	U-7
AXY 1360 600	13.0-13.6 (0.51-0.54")	1360mm 53.5"	1920mm 75.6"	500/600m 1640-1968'	2.34 kg (5.16 lb)	ZH-7	U-7
AXY 1410 600	13.7-14.1 (0.54-0.56")	1360mm 53.5"	1920mm 75.6"	500/600m 1640-1968'	2.35 kg (5.18 lb)	ZH-7	U-7
AXY 1430 600	14.2-14.3 (0.55-0.55")	1360mm 53.5"	1920mm 75.6"	500/600m 1640-1968'	2.55 kg (5.62 lb)	ZH-7	U-7
AXY 1450 600	14.4-14.5 (0.56-0.57")	1400mm 55.1"	2000mm 78.7"	500/600m 1640-1968'	2.63 kg (5.8 lb)	ZH-7	U-7
AXY 1510 600	14.6-15.1 (0.57-0.59")	1400mm 55.1"	2000mm 78.7"	500/600m 1640-1968'	2.63 kg (5.8 lb)	ZH-7	U-7
AXY 1580 600	15.2-15.8 (0.60-0.62")	1400mm 55.1"	2000mm 78.7"	500/600m 1640-1968'	2.63 kg (5.8 lb)	ZH-7	U-7
AXY 1600 600	15.9-16.0 (0.63-0.63")	1520mm 59.8"	2120mm 83.5"	500/600m 1640-1968'	2.92 kg (6.44 lb)	ZH-7	U-7
AXY 1690 600	16.1-16.9 (0.64-0.67")	1520mm 59.8"	2120mm 83.5"	500/600m 1640-1968'	2.92 kg (6.44 lb)	ZH-7	U-7

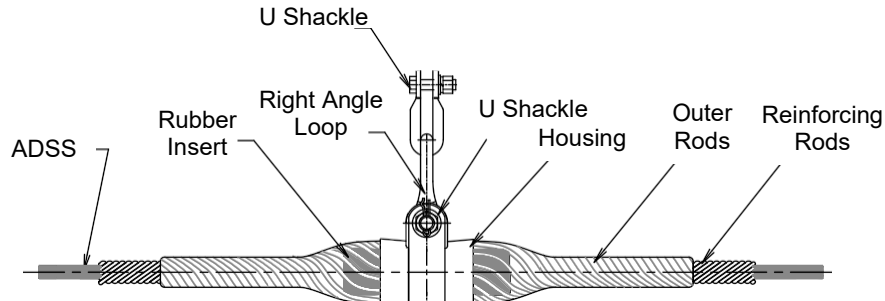
MATERIAL:

- * ARMOR RODS – ALUMINUM ALLOY
- * HOUSING – ALUMINUM ALLOY
- * INSERT – EPDM RUBBER

STRENGTH 70KN (15736LBS). HOLDING STRENGTH NO LESS THAN 10-20% OF ADSS CABLE. SUITABLE FOR ANGLES LESS THAN 30°. FOR ANGLES BETWEEN 30° – 60°, DOUBLE ARMOR GRIP SUSPENSION UNITS ARE RECOMMENDED. FOR GENERAL ASSEMBLY, U-7 AND ZH-7 ARE USUALLY APPLIED. OTHER LINKS FOUND IN APPENDIXES.

ADDITIONAL PRODUCTS AVAILABLE, CONTACT US FOR ANY ITEMS NOT LISTED HERE

FORMED GRIP ADSS SUSPENSION UNITS MEDIUM / LONG SPAN



MODEL.	CABLE DIAMETER mm (in)	OUTER ROD LENGTH mm (in)	REINFORCING ROD LENGTH mm(in)	SPAN m(ft)	WEIGHT Kg (Lbs)	GENERAL ASSEMBLY	
						SUSPENSION	U-SHACKLE
AXY 1430 800	14.2-14.3 (0.55-0.55")	1460mm 57.5"	2060mm 78.7"	700/800m 2296-2625'	2.73 kg (6.01 lb)	ZH-7	U-7
AXY 1450 800	14.4-14.5 (0.56-0.57")		2120mm 83.5"		2.77 kg (6.09 lb)		
AXY 1510 800	14.6-15.1 (0.57-0.59")				2.77 kg (6.09 lb)		
AXY 1580 800	15.2-15.8 (0.60-0.62")	1480mm 58.3"			2.79 kg (6.14 lb)		
AXY 1600 800	15.9-16.0 (0.63-0.63")	1580mm 62.2"	2200mm 86.6"		3.04 kg (6.7 lb)		
AXY 1690 800	16.1-16.9 (0.64-0.67")				3.04 kg (6.7 lb)		
AXY 1730 800	17.0-17.3 (0.67-0.68")				3.28 kg (7.22 lb)		
AXY 1800 800	17.4-18.0 (0.69-0.71")				3.28 kg (7.22 lb)		
AXY 1580 1000	15.2-15.8 (0.60-0.62")	1680mm 66.1"	2590mm 102"	900/1000m 2252-3281'	3 kg (6.6 lb)		
AXY 1600 1000	15.9-16.0 (0.63-0.63")				3.37 kg (7.4 lb)		
AXY 1690 1000	16.1-16.9 (0.64-0.67")				3.37 kg (7.4 lb)		
AXY 1730 1000	17.0-17.3 (0.67-0.68")				3.63 kg (7.99 lb)		
AXY 1800 1000	17.4-18.0 (0.69-0.71")				3.63 kg (7.99 lb)		
AXY 1880 1000	18.1-18.8 (0.71-0.74")				3.63 kg (7.99 lb)		

MATERIAL:

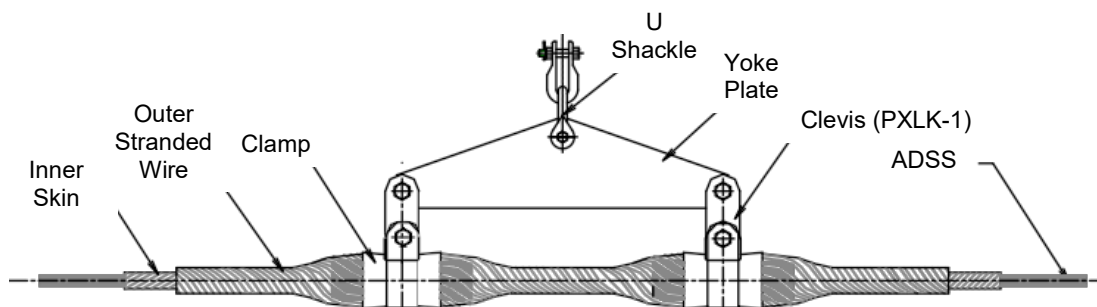
- * ARMOR RODS – ALUMINUM ALLOY
- * HOUSING – ALUMINUM ALLOY
- * INSERT – EPDM RUBBER

STRENGTH 70KN (15736LBS). HOLDING STRENGTH NO LESS THAN 10-20% OF ADSS CABLE. SUITABLE FOR ANGLES LESS THAN 30°. FOR ANGLES BETWEEN 30° – 60°, DOUBLE ARMOR GRIP SUSPENSION UNITS ARE RECOMMENDED.

FOR GENERAL ASSEMBLY, U-7 AND ZH-7 ARE USUALLY APPLIED. OTHER LINKS FOUND IN APPENDIXES.

ADDITIONAL PRODUCTS AVAILABLE, CONTACT US FOR ANY ITEMS NOT LISTED HERE

DOUBLE FORMED GRIP ADSS SUSPENSION UNITS



MODEL.	CABLE DIAMETER mm (in)	OUTER ROD LENGTH mm (in)	REINFORCING ROD LENGTH mm(in)	WEIGHT Kg (Lbs)	GENERAL ASSEMBLY	
					LINK BOARD	LINKS
AXS 0960	9.0-9.6 (0.35-0.38")	1800mm (70.8")	2200mm 86.6"	2.36 kg (5.19 lb)	L-1040	U-7
AXS 1010	9.7-10.1 (0.38-0.40")			2.45 kg (5.39 lb)		
AXS 1060	10.2-10.6 (0.40-0.42")			2.61 kg (5.74 lb)		
AXS 1110	10.7-11.1 (0.42-0.44")			2.61 kg (5.74 lb)		
AXS 1160	11.2-11.6 (0.44-.46")			2.7 kg (5.94 lb)		
AXS 1170	11.7-11.7 (0.46-.46")			2.7 kg (5.94 lb)		
AXS 1200	11.8-12.0 (0.46-.47")	1900mm 74.8"	2400mm 94.5"	2.88 kg (6.34 lb)	SXB-475	
AXS 1270	12.1-12.7 (0.48-0.5")			2.88 kg (6.34 lb)		
AXS 1290	12.8-12.9 (0.5-0.51")			3.15 kg (6.93 lb)		
AXS 1360	13.0-13.6 (0.51-0.54")			3.15 kg (6.93 lb)		
AXS 1410	13.7-14.1 (0.54-0.56")	2100mm 82.7"	2700mm 106.3"	3.5 kg (7.7 lb)	SXB-475	
AXS 1430	14.2-14.3 (0.55-0.55")			3.81 kg (8.38 lb)		
AXS 1450	14.4-14.5 (0.56-0.57")			3.81 kg (8.38 lb)		
AXS 1510	14.6-15.1 (0.57-0.59")			3.81 kg (8.38 lb)		
AXS 1580	15.2-15.8 (0.60-0.62")			3.81 kg (8.38 lb)		
AXS 1600	15.9-16.0 (0.63-0.63")			3.92 kg (8.62 lb)		
AXS 1690	16.1-16.9 (0.64-0.67")	2400mm 94.5"	3000mm 118.1"	4.43 kg (9.75 lb)	SXB-550	
AXS 1730	17.0-17.3 (0.67-0.68")			4.78 kg (10.52 lb)		
AXS 1800	17.4-18.0 (0.69-0.71")			4.78 kg (10.52 lb)		
AXS 1880	18.1-18.8 (0.71-0.74")			4.78 kg (10.52 lb)		

MATERIAL:

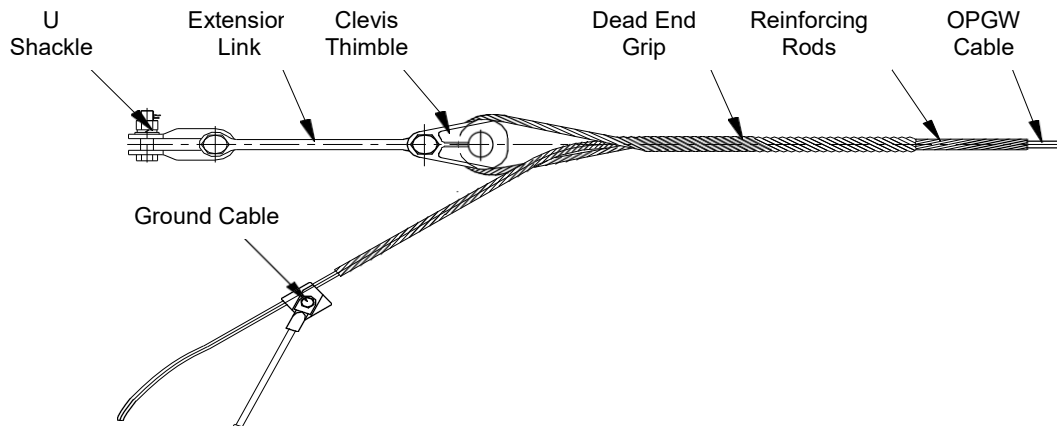
- * ARMOR RODS – ALUMINUM ALLOY
- * HOUSING – ALUMINUM ALLOY
- * INSERT – EPDM RUBBER

HOLDING STRENGTH NO LESS THAN 20% OF ADSS CABLE. FOR ANGLES BETWEEN 30° – 60°, DOUBLE ARMOR GRIP SUSPENSION UNITS ARE RECOMMENDED.
GENERAL ASSEMBLY ITEMS LISTED. OTHER LINKS FOUND IN APPENDIXES.

ADDITIONAL PRODUCTS AVAILABLE, CONTACT US FOR ANY ITEMS NOT LISTED HERE



FORMED GRIP DEAD-END FOR OPGW



MODEL.	CABLE DIAMETER mm (in)	STRENGTH kN (Lb)	OUTER ROD LENGTH mm (in)	REINFORCING ROD LENGTH mm(in)	WEIGHT Kg (Lbs)	GENERAL ASSEMBLY		
						EXTENSION LINK	THIMBLE CLEVIS	U- SHACKLE
ONY 0780	7.2-7.8 (0.28-.31")	70kN (15736 Lb)	1000mm (39.4")	1400mm (55.1")	1.10 kg (2.42 lb)		XH-080	
ONY 0880	7.9-8.8 (0.31-.35")				1.15 kg (2.5 lb)			
ONY 1010	8.9-10.1 (0.35-.40")				1.28 kg (2.82 lb)			
ONY 1140	10.2-11.4 (0.40-.45")	90kN (20235 Lb)	1120mm (44.1")	1540mm 60.6"	1.70 kg (3.74 lb)		XH 120	
ONY 1280	11.5-12.8 (0.45-.50")	112kN (25178 Lb)	1200mm (47.2")	1620mm 63.8"	2.41 kg (5.3 lb)			
ONY 1410	12.9-14.1 (0.51-.56")		1240mm (48.8")	1600mm 65.3"	2.55 kg (5.61 lb)			
ONY 1550	14.2-15.5 (0.56-.61")		1360mm 53.5"	1840mm 72.4"	2.89 kg (6.36 lb)			
ONY 1730	15.6-17.3 (0.61-.68")		1480mm (58.3")	2000mm (78.7")	3.61 kg (7.94 lb)			
ONY 1920	17.4-19.2 (0.69-.76")		1800mm (70.9")	2400mm (94.5")	4.68 kg (10.3 lb)			
ONY 2110	19.3-21.1 (0.76-.83")		2000mm (78.7")	2600mm (102.4")	5.14 kg (11.31 lb)			

MATERIAL:

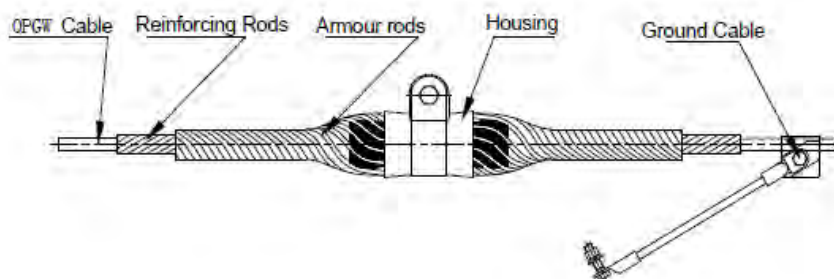
- * ARMOR RODS – ALUMINUM CLAD STEEL RODS
- * DEAD-END – ALUMINUM CLAD STEEL RODS
- * THIMBLE – HOT DIPPED GALVANIZED DUCTILE IRON (STRENGTH 70Kn / 120Kn 157361/269796 lbs)

GENERAL ASSEMBLY ITEMS LISTED. OTHER LINKS FOUND IN APPENDIXES.

ADDITIONAL PRODUCTS AVAILABLE, CONTACT US FOR ANY ITEMS NOT LISTED HERE



FORMED GRIP SUSPENSION UNITS FOR OPGW



MODEL.	CABLE DIAMETER mm (in)	OUTER ROD LENGTH mm (in)	REINFORCING ROD LENGTH mm(in)	WEIGHT Kg (Lbs)	COLOR	GENERAL ASSEMBLY	
						LENGTH mm(in)	SPECIFICATION
OXY 0800	7.4-8.0 (0.29-.31")	1100mm 43.3"	1650mm 65"	1.27 kg (2.8 lb)	Blue	400mm (15.7")	L-1040
OXY 0880	8.1-8.8 (0.32-.35")	1100mm 43.3"	1650mm 65"	1.37 kg (3.01 lb)	Green		
OXY 0960	8.9-9.6 (0.35-.38")	1140mm 44.9"	1690mm 66.5"	1.49 kg (3.28 lb)	Yellow		
OXY 1010	9.7-10.1 (0.38-.40)	1140mm 44.9"	1690mm 66.5"	1.49 kg (3.28 lb)	Black		
OXY 1060	10.2-10.6 (0.40-.42")	1140mm 44.9"	1690mm 66.5"	1.56 kg (3.43 lb)	White		
OXY 1110	10.7-11.1 (0.42-.44")	1140mm 44.9"	1720mm 67.7"	1.57 kg (3.45 lb)	Red		
OXY 1160	11.2-11.6 (0.44-.46")	1180mm 46.5"	1760mm 69.3"	1.72 kg (3.78 lb)	Blue	475mm (18.7")	SXB-475
OXY 1170	11.7-11.7 (0.46-.46")	1240mm 48.8"	1840mm 72.4"	1.88 kg (4.14 lb)	Green		
OXY 1200	11.8-12.0 (0.46-.47")	1240mm 48.8"	1840mm 72.4"	1.88 kg (4.14 lb)	Yellow		
OXY 1270	12.1-12.7 (0.48-.5")	1240mm 48.8"	1860mm 73.2"	1.89 kg (4.16 lb)	Black		
OXY 1290	12.8-12.9 (0.5-.51")	1240mm 48.8"	1960mm 77.2"	2.12 kg (4.66 lb)	White		
OXY 1360	13.0-13.6 (0.51-.54")	1320mm 52"	1960mm 77.2"	2.2 kg (4.84 lb)	Red		
OXY 1410	13.7-14.1 (0.54-.56")	1320mm 52"	2000mm 78.7"	2.22 kg (4.84 lb)	Blue		
OXY 1430	14.2-14.3 (0.55-.55")	1320mm 52"	2000mm 78.7"	2.22 kg (4.84 lb)	Green		

MATERIAL:

- * ARMOR RODS – ALUMINUM ALLOY
- * HOUSING – ALUMINUM ALLOY
- * INSERT – EPDM RUBBER

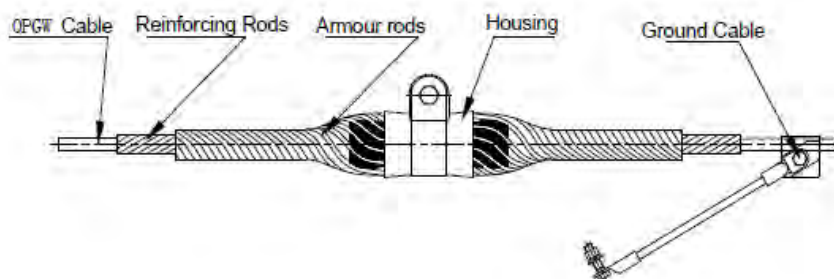
HOLDING STRENGTH NO LESS THAN 18% OF RTS OF CABLE. FOR ANGLES BETWEEN 300 – 600, DOUBLE FORMED GRIP SUSPENSION UNITS ARE RECOMMENDED.

GENERAL ASSEMBLY ITEMS LISTED. OTHER LINKS FOUND IN APPENDIXES.

ADDITIONAL PRODUCTS AVAILABLE, CONTACT US FOR ANY ITEMS NOT LISTED HERE



FORMED GRIP SUSPENSION UNITS FOR OPGW



MODEL.	CABLE DIAMETER mm (in)	OUTER ROD LENGTH mm (in)	REINFORCING ROD LENGTH mm(in)	WEIGHT Kg (Lbs)	COLOR	GENERAL ASSEMBLY	
						LENGTH mm(in)	SPECIFICATION
OXY 1450	14.4-14.5 (0.56-.57")	1440mm 56.7"	2120mm 83.5"	2.61 kg (5.74 lb)	Yellow	475mm (18.7")	SXB-475
OXY 1510	14.6-15.1 (0.57-.59")	1440mm 56.7"	2120mm 83.5"	2.62 kg (5.76 lb)	Black		
OXY 1580	15.2-15.8 (0.60-.62")	1440mm 56.7"	2180mm 85.8"	2.65 kg (5.83 lb)	White		
OXY 1600	15.9-16.0 (0.63-.63")	1620mm 63.8"	2400mm 94.5"	3.05 kg (6.71 lb)	Red	550mm (21.7")	SXB-550
OXY 1690	16.1-16.9 (0.64-.67")	1620mm 63.8"	2400mm 94.5"	3.05 kg (6.71 lb)	Blue		
OXY 1730	17.0-17.3 (0.67-.68")	1620mm 63.8"	2400mm 94.5"	3.2 kg (7.05 lb)	Green		
OXY 1800	17.4-18.0 (0.69-.71")	1620mm 63.8"	2400mm 94.5"	3.3 kg (7.27 lb)	Yellow		
OXY 1840	18.1-18.4 (0.71-.72")	1620mm 63.8"	2400mm 94.5"	3.3 kg (7.27 lb)	Black		
OXY 1880	18.5-18.8 (0.73-.74")	1620mm 63.8"	2400mm 94.5"	3.55 kg (7.83 lb)	White		
OXY 1890	18.9-18.9 (0.74-.74")	1620mm 63.8"	2400mm 94.5"	3.55 kg (7.83 lb)	Red		
OXY 1990	18.9-19.9 (0.75-.78")	1620mm 63.8"	2400mm 94.5"	3.55 kg (7.83 lb)	Blue		

MATERIAL:

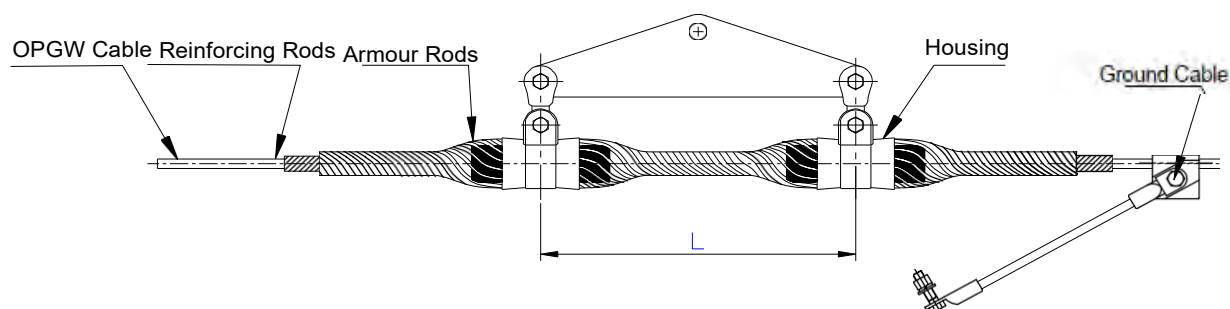
- * ARMOR RODS – ALUMINUM ALLOY
- * HOUSING – ALUMINUM ALLOY
- * INSERT – EPDM RUBBER

HOLDING STRENGTH NO LESS THAN 18% OF RTS OF CABLE. FOR ANGLES BETWEEN 30° – 60°, DOUBLE FORMED GRIP SUSPENSION UNITS ARE RECOMMENDED.
GENERAL ASSEMBLY ITEMS LISTED. OTHER LINKS FOUND IN APPENDIXES.

ADDITIONAL PRODUCTS AVAILABLE, CONTACT US FOR ANY ITEMS NOT LISTED HERE



DOUBLE FORMED GRIP SUSPENSION UNITS FOR OPGW



MODEL.	CABLE DIAMETER mm (in)	OUTER ROD LENGTH mm (in)	REINFORCING ROD LENGTH mm(in)	WEIGHT Kg (Lbs)	COLOR	GENERAL ASSEMBLY	
						LENGTH mm(in)	SPECIFICATION
OXS 0800	7.4-8.0 (0.29-.31")	1600mm 63"	2100mm 82.7"	1.77 kg (3.89 lb)	Blue	400mm (15.7")	L-1040
OXS 0880	8.1-8.8 (0.32-.35")	1600mm 63"	2100mm 82.7"	1.91 kg (4.20 lb)	Green		
OXS 0960	8.9-9.6 (0.35-.38")	1600mm 63"	2200mm 86.6"	2.03 kg (4.47 lb)	Yellow		
OXS 1010	9.7-10.1 (0.38-.40)	1600mm 63"	2200mm 86.6"	2.03 kg (4.47 lb)	Black		
OXS 1060	10.2-10.6 (0.40-.42")	1600mm 63"	2200mm 86.6"	2.12 kg (4.66 lb)	White		
OXS 1110	10.7-11.1 (0.42-.44")	1600mm 63"	2200mm 86.6"	2.12 kg (4.66 lb)	Red		
OXS 1160	11.2-11.6 (0.44-.46")	1600mm 63"	2200mm 86.6"	2.27 kg (4.99 lb)	Blue	475mm (18.7")	SXB-475
OXS 1170	11.7-11.7 (0.46-.46")	1700mm 67"	2300mm 90.6"	2.49 kg (5.48 lb)	Green		
OXS 1200	11.8-12.0 (0.46-.47")	1700mm 67"	2300mm 90.6"	2.49 kg (5.48 lb)	Yellow		
OXS 1270	12.1-12.7 (0.48-.5")	1700mm 67"	2300mm 90.6"	2.49 kg (5.48 lb)	Black		
OXS 1290	12.8-12.9 (0.5-.51")	1700mm 67"	2400mm 94.5"	2.78 kg (6.11 lb)	White		
OXS 1360	13.0-13.6 (0.51-.54")	1800mm 70.9"	2400mm 94.5"	2.89 kg (6.36 lb)	Red		
OXS 1410	13.7-14.1 (0.54-.56")	1800mm 70.9"	2400mm 94.5"	2.89 kg (6.36 lb)	Blue	475mm (18.7")	SXB-475
OXS 1430	14.2-14.3 (0.55-.55")	1800mm 70.9"	2400mm 94.5"	2.89 kg (6.36 lb)	Green		

MATERIAL:

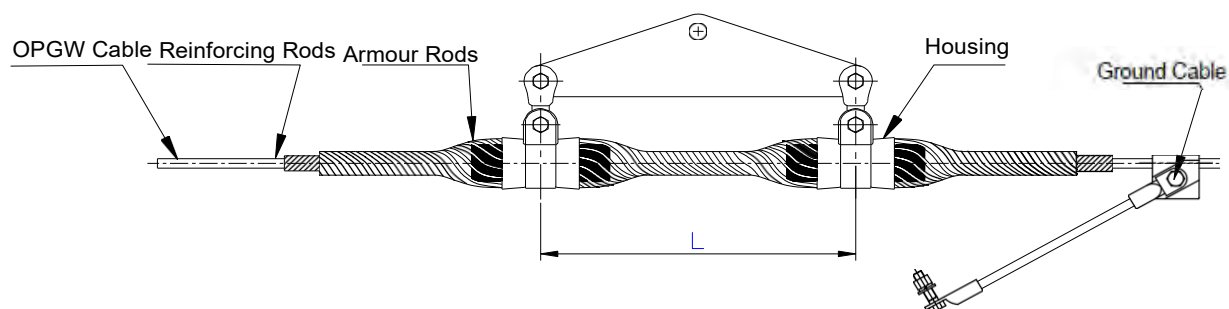
- * ARMOR RODS – ALUMINUM ALLOY
- * HOUSING – ALUMINUM ALLOY
- * INSERT – EPDM RUBBER

HOLDING STRENGTH NO LESS THAN 24% OF RTS OF CABLE. FOR ANGLES BETWEEN 30° – 60°, DOUBLE FORMED GRIP SUSPENSION UNITS ARE RECOMMENDED.
GENERAL ASSEMBLY ITEMS LISTED. OTHER LINKS FOUND IN APPENDIXES.

ADDITIONAL PRODUCTS AVAILABLE, CONTACT US FOR ANY ITEMS NOT LISTED HERE



DOUBLE FORMED GRIP SUSPENSION UNITS FOR OPGW



MODEL.	CABLE DIAMETER mm (in)	OUTER ROD LENGTH mm (in)	REINFORCING ROD LENGTH mm(in)	WEIGHT Kg (Lbs)	COLOR	GENERAL ASSEMBLY	
						LENGTH mm(in)	SPECIFICATION
OXS 1450	14.4-14.5 (0.56-.57")	2000mm 78.7"	2600mm 102.4"	3.46 kg (7.63 lb)	Yellow	475mm (18.7")	SXB-475
OXS 1510	14.6-15.1 (0.57-.59")	2000mm 78.7"	2600mm 102.4"	3.46 kg (7.63 lb)	Black		
OXS 1580	15.2-15.8 (0.60-.62")	2000mm 78.7"	2600mm 102.4"	3.46 kg (7.63 lb)	White		
OXS 1600	15.9-16.0 (0.63-.63")	2400mm 94.5"	3100mm 122"	4.27 kg (9.41 lb)	Red	550mm (21.7")	SXB-550
OXS 1690	16.1-16.9 (0.64-.67")	2400mm 94.5"	3100mm 122"	4.27 kg (9.41 lb)	Blue		
OXS 1730	17.0-17.3 (0.67-.68")	2400mm 94.5"	3100mm 122"	4.49 kg (9.90 lb)	Green		
OXS 1800	17.4-18.0 (0.69-.71")	2400mm 94.5"	3100mm 122"	4.62 kg (10.19 lb)	Yellow		
OXS 1840	18.1-18.4 (0.71-.72")	2400mm 94.5"	3100mm 122"	4.62 kg (10.19 lb)	Black		
OXS 1880	18.5-18.8 (0.73-.74")	2400mm 94.5"	3100mm 122"	4.97 kg (10.96 lb)	White		
OXS 1890	18.9-18.9 (0.74-.74")	2400mm 94.5"	3100mm 122"	4.97 kg (10.96 lb)	Red		
OXS 1990	18.9-19.9 (0.75-.78")	2400mm 94.5"	3100mm 122"	4.97 kg (10.96 lb)	Blue		

MATERIAL:

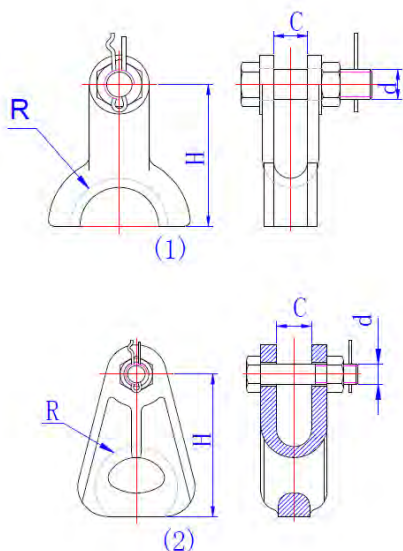
- * ARMOR RODS – ALUMINUM ALLOY
- * HOUSING – ALUMINUM ALLOY
- * INSERT – EPDM RUBBER

HOLDING STRENGTH NO LESS THAN 24% OF RTS OF CABLE. FOR ANGLES BETWEEN 30° – 60°, DOUBLE FORMED GRIP SUSPENSION UNITS ARE RECOMMENDED.
GENERAL ASSEMBLY ITEMS LISTED. OTHER LINKS FOUND IN APPENDIXES.

ADDITIONAL PRODUCTS AVAILABLE, CONTACT US FOR ANY ITEMS NOT LISTED HERE

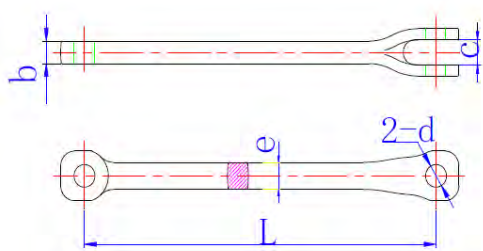


ACCESSORIES



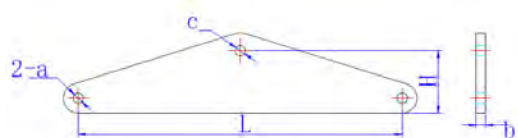
THIMBLE CLEVIS						TABLE 10.1	
MODEL.	FIG.	DIMENSIONS				TENSILE STRENGTH Kn (lb)	WEIGHT Kg (Lbs)
		R	H	C	D		
XH 020	1	50mm 1.97"	80mm 3.14"	17mm 0.67"	16mm 0.63"	30kn (6744lb)	0,5 kg (1.10 lb)
XH 080	2	55mm 2.17"	101mm 3.98"	23mm 0.91"	16mm 0.63"	80 (17985lb)	1.2 kg (2.65 lb)
XH 120	2	60mm 2.36"	116mm 4.57"	26mm 1.02"	18mm 0.71"	120 (26977lb)	1.7 kg (3.75 lb)

* MATERIAL: HOT DIP GALVANIZED DUCTILE IRON



EXTENSION LINK						TABLE 10.2	
MODEL.	DIMENSIONS					TENSILE STRENGTH Kn	WEIGHT Kg (Lbs)
	D	B	C	E	L		
TYC 300 080	18mm 0.71"	16mm 0.63"	16mm 0.63"	16mm 0.63"	300mm 11.81"	80 (17985lb)	0.9 kg (1.98 lb)
TYC 300 120	20mm 0.79"	18mm 0.71"	22mm 0.87"	22mm 0.87"	300mm 11.81"	120 (26977lb)	2.0 kg (4.41 lb)

* MATERIAL: HOT GALVANIZED STEEL

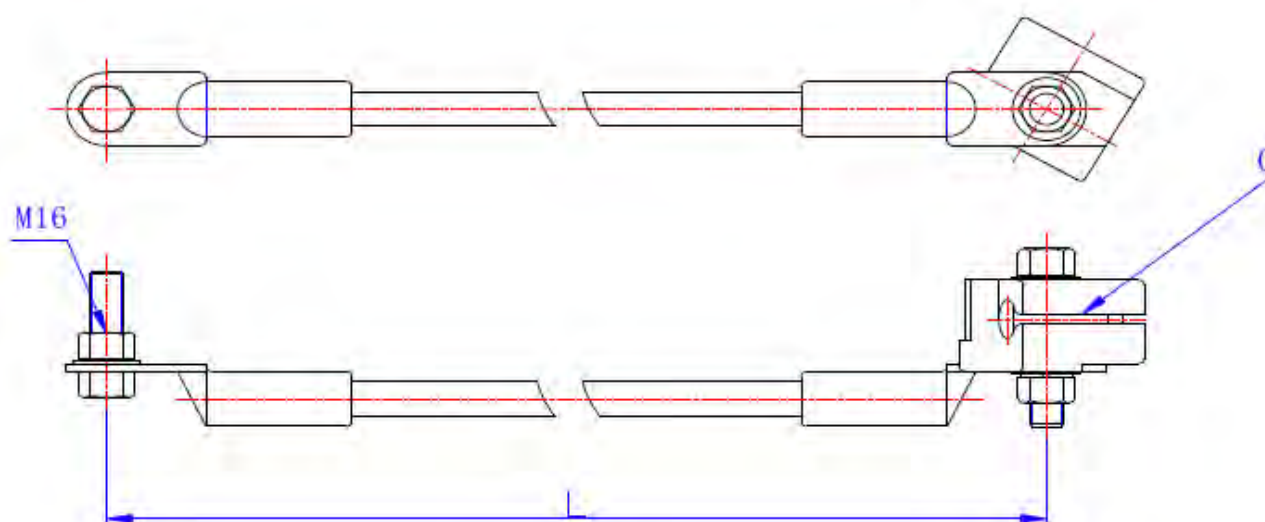


LINK BOARD						TABLE 10.3	
MODEL.	DIMENSIONS					TENSILE STRENGTH Kn	WEIGHT Kg (Lbs)
	A	B	C	H	L		
SXB-475	17.5mm 0.69"	16mm 0.63"	19.5mm 0.77"	110mm 4.33"	475mm 18.71"	120 (26977lb)	5.7 kg (12.57 lb)

* MATERIAL: HOT GALVANIZED STEEL



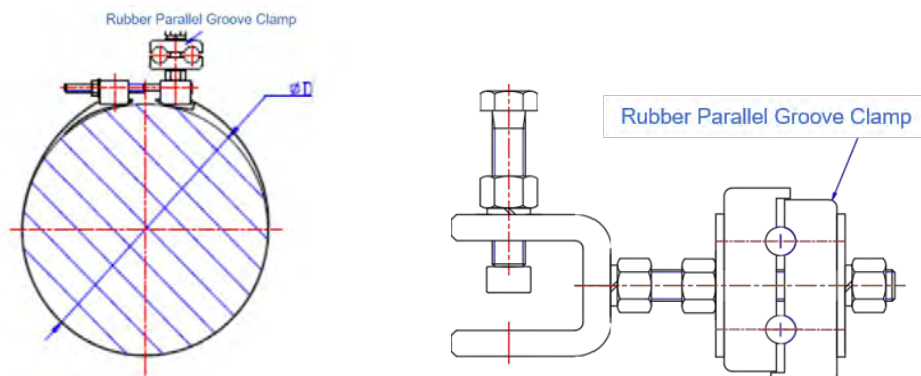
ACCESSORIES



GROUNDING CLAMPS					TABLE 10.4
MODEL	CONDUCTOR DIAMETER mm (in)	CABLE DIAMETER mm (in)	WEIGHT Kg (Lbs)	GENERAL ASSEMBLY	
				LENGTH mm(in)	CLAMP MODEL
JXJ 70-1500	11.40mm (0.45")	7.8-11.5 (0.31-.45")	0.95 kg (2.09 lb)	1500	C-115
JXJ 70-2000			1.09 kg (2.4 lb)	2000	
JXJ 70-2500			1.23 kg (2.71 lb)	2500	
JXJ 70-3000			1.37 kg (3.02 lb)	3000	
JXJ 95-1500	13.61mm (0.54")	11.6-14.7 (0.46-.57")	1.11 kg (2.45 lb)	1500	C-147
JXJ 95-2000			1.30 kg (2.86 lb)	2000	
JXJ 95-2500			1.49 kg (3.24 lb)	2500	
JXJ 95-3000			1.68 kg (3.70 lb)	3000	
JXJ 120-1500	15.75mm (0.62")	14.8-18.0 (0.58-.71")	1.56 kg (3.44 lb)	1500	C-180
JXJ 120-2000			1.82 kg (4.01 lb)	2000	
JXJ 120-2500			2.09 kg (4.61 lb)	2500	
JXJ 120-3000			2.35 kg (5.18 lb)	3000	

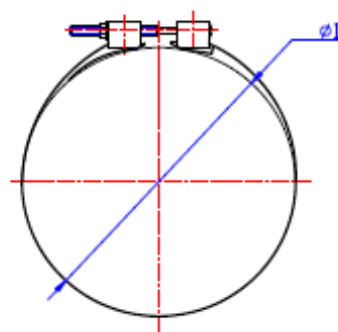


FASTENING CLAMPS



FASTENING CLAMPS				TABLE 11.1
MODEL.	DESCRIPTION	CABLE DIAMETER mm (in)	WEIGHT Kg (Lbs)	REMARKS
TGY 1100-T	POLE FASTENING CLAMPS	9.0-11.1 (0.35-.44")	0.85 kg (1.87 lb)	For ADSS
TGY 1330-T		11.2-13.3 (0.44-.52")	0.85 kg (1.87 lb)	
TGY 1550-T		13.4-15.5 (0.53-.61")	0.85 kg (1.87 lb)	
TGY 1800-T		15.6-18.0 (0.61-.71")	0.85 kg (1.87 lb)	
TGY 115-T	METAL POLE FASTENING CLAMPS	7.0-11.5 (0.28-.45")	0.85 kg (1.87 lb)	For OPGW
TGY 160-T		11.6-16.0 (0.46-.63")	0.85 kg (1.87 lb)	
TGY 200-T		16.1-20.0 (0.64-.79")	0.85 kg (1.87 lb)	
TGY 1100-H*	TOWER FASTENING CLAMPS	9.0-11.1 (0.35-.44")	0.95 kg (2.09 lb)	For ADSS
TGY 1330-H*		11.2-13.3 (0.44-.52")	0.95 kg (2.09 lb)	
TGY 1550-H*		13.4-15.5 (0.53-.61")	0.95 kg (2.09 lb)	
TGY 1800-H*		15.6-18.0 (0.61-.71")	0.95 kg (2.09 lb)	
TGY 115-H*	METAL TOWER FASTENING CLAMPS	7.0-11.5 (0.28-.45")	0.95 kg (2.09 lb)	For OPGW
TGY 160-H*		11.6-16.0 (0.46-.63")	0.95 kg (2.09 lb)	
TGY 200-H*		16.1-20.0 (0.64-.79")	0.95 kg (2.09 lb)	

FASTENING CLAMPS STAINLESS STEEL		TABLE 11.2
MODEL.	MAX POLE DIAMETER mm (in)	WEIGHT Kg (Lbs)
H1	310mm (13.20")	0.45 kg (0.99 lb)
H2	460mm (18.11")	0.50 kg (1.10 lb)
H3	310mm (23.62")	0.55 kg (1.21 lb)
H4	310mm (31.50")	0.60 kg (1.32 lb)

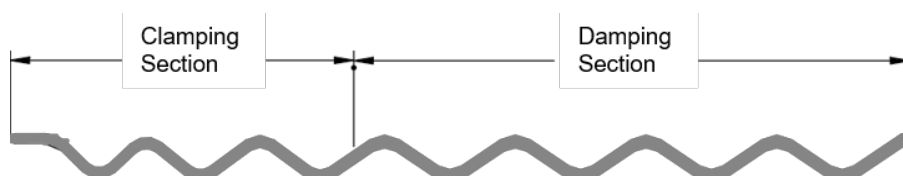


MATERIAL:

- * RUBBER PARELLEL GROOVE CLAMP – EPDM
- * METAL PARELLEL GROOVE CLAMP – ALUMINUM ALLOY



SPIRAL VIBRATION DAMPER



SPAN.	NUMBER/ SPAN
<100m	0
100-250	2
250-400	4
400-800	6
800-1000	8

MODEL.	CABLE DIAMETER mm (in)	FASTENER LENGTH mm(in)	TOTAL LENGTH mm(in)	WEIGHT Kg (Lbs)
FTL 1170 130	8.3-11.7 (.33-.46)	250mm 9.8"	1300mm 51.18"	0.28 kg (0.62 lb)
ANJ 1050	11.7-14.3 (.46-.56)	250mm 9.8"	1350mm 53.15"	0.30 kg (0.66 lb)
ANJ 1160	14.3-19.3 (.56-.76)	330mm 12.99"	1670mm 65.75"	0.66 kg (1.45 lb)

MATERIAL:

- * HIGH IMPACT PVC

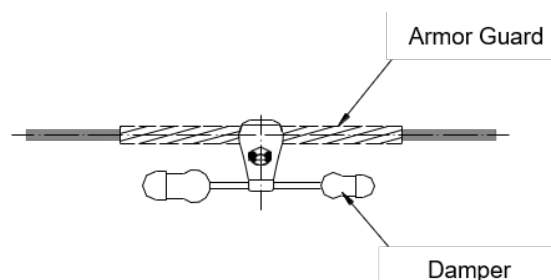
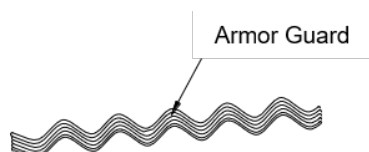
SPIRAL VIBRATION DAMPERS ARE DESIGNED TO CONTROL HIGH FREQUENCY AEOLIAN VIBRATION AND ARE PARTICULARLY EFFECTIVE ON SMALL SIZE EARTH WIRES AND CABLES.

THE DEGREE OF PROTECTION NEEDED ON A SPECIFIC LINE IS DEPENDENT UPON LINE DESIGN, TEMPERATURE, TENSION, EXPOSURE TO WINDFLOW AND VIBRATION HISTORY ON SIMILAR CONSTRUCTION IN THE SAME AREA. THE FOLLOWING RECOMMENDATIONS MAY BE USED AS A GENERAL GUIDE.

- * 100-250M, 2 PER SPAN (ONE ON EACH SIDE OF SUPPORT POINT)
- * 250-400M, 4 PER SPAN (TWO ON EACH SIDE OF SUPPORT POINT)
- * 400-800M, 6 PER SPAN (THREE ON EACH SIDE OF SUPPORT POINT)
- * 800-1000M, 8 PER SPAN (FOUR ON EACH SIDE OF SUPPORT POINT)



STOCKBRIDGE VIBRATION DAMPER & ARMOR GUARDS



THE STOCKBRIDGE VIBRATION DAMPER IS DESIGNED TO CONTROL HIGH FREQUENCY AEOLIAN VIBRATION AND IS SUITABLE FOR OPERATION WITHIN AN ENERGIZED ELECTRIC FIELD. THEY ARE SUPPLIED COMPLETE WITH A SET OF LINE GUARDS FOR DIRECT INSTALLATION OVER THE OPGW OR ADSS OR WITH A SPECIFIC SIZED CLAMP FOR INSTALLATION OVER THE ARMOUR RODS OF SUSPENSION AND DEAD END FITTINGS.

THE DEGREE OF PROTECTION NEEDED ON A SPECIFIC LINE IS DEPENDENT UPON LINE DESIGN, TEMPERATURE, TENSION, EXPOSURE TO WINDFLOW AND VIBRATION HISTORY ON SIMILAR CONSTRUCTION IN THE SAME AREA. THE FOLLOWING RECOMMENDATIONS MAY BE USED AS A GENERAL GUIDE.

- * 100-300M, 2 PER SPAN (ONE ON EACH SIDE OF SUPPORT POINT)
- * 300-600M, 4 PER SPAN (TWO ON EACH SIDE OF SUPPORT POINT)
- * 600-900M, 6 PER SPAN (THREE ON EACH SIDE OF SUPPORT POINT)
- * 900-1200M, 8 PER SPAN (FOUR ON EACH SIDE OF SUPPORT POINT)

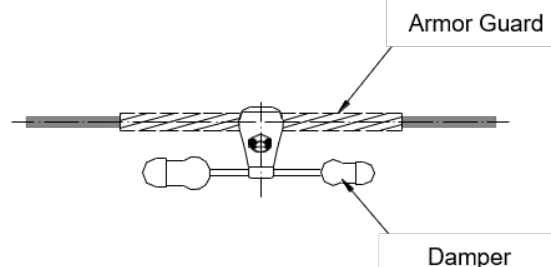
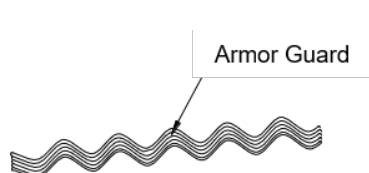
MODEL.	CABLE DIAMETER mm (in)	TOTAL LENGTH mm (in)	CLAMP WIDTH mm(in)	WEIGHT Kg (Lbs)
4D-30-27.0	27.0-22.3 (1.06-.88")	383mm 15.1"	52mm 2.05"	2.5 kg (5.51 lb)
4D-30-23.4	23.4-19.5 (0.92-.77")			
4D-30-20.3	20.3-16.5 (0.80-.65")			
4D-30-18.0	18.0-15.0 (0.71-.59")			
4D-30-16.0	16.0-14.0 (0.63-.55")			
4D-30-14.0	14.0-12.2 (0.55-.48")			
4D-30-27.0	27.0-22.3 (1.06-.88")	330mm 12.99"	52mm 2.05"	1.4 kg (3.09 lb)
4D-30-23.4	23.4-19.5 (0.92-.77")			
4D-30-20.3	20.3-16.5 (0.80-.65")			
4D-30-18.0	18.0-15.0 (0.71-.59")			
4D-30-16.0	16.0-14.0 (0.63-.55")			
4D-30-14.0	14.0-12.2 (0.55-.48")			
4D-30-27.0	27.0-22.3 (1.06-.88")			

MATERIAL:

- * ARMOR GUARDS – ALUMINUM ALLOY
- * SVD – HIGH IMPACT PVC



STOCKBRIDGE VIBRATION DAMPER & ARMOR GUARDS



MODEL.	CABLE DIAMETER mm (in)	TOTAL LENGTH mm (in)	WEIGHT Kg (Lbs)
TFH 0800	7.4-8.0 (0.29-.31")	400mm 15.75"	0.12 kg (0.26 lb)
TFH 0880	8.1-8.8 (0.32-.35")		
TFH 0960	9.0-9.6 (0.35-.38")	450mm 17.72"	0.15 kg (0.33 lb)
TFH 1010	9.7-10.1 (0.38-.40)		0.17 kg (0.37 lb)
TFH 1060	10.2-10.6 (0.40-.42")		
TFH 1110	10.7-11.1 (0.42-.44")		
TFH 1160	11.2-11.6 (0.44-.46")	500mm 12.99"	0.21 kg (0.46 lb)
TFH 1170	11.7-11.7 (0.46-.46")		
TFH 1200	11.8-12.0 (0.46-.47")		
TFH 1270	12.1-12.7 (0.48-.5")		
TFH 1290	12.8-12.9 (0.5-.51")		0.23 kg (0.51 lb)
TFH 1360	13.0-13.6 (0.51-.54")	550mm 21.65"	0.25 kg (0.55 lb)

MODEL.	CABLE DIAMETER mm (in)	TOTAL LENGTH mm (in)	WEIGHT Kg (Lbs)
TFH 1410	13.7-14.1 (0.54-.56")	550mm 21.65"	0.25 kg (0.55 lb)
TFH 1430	14.2-14.3 (0.55-.55")		0.28 kg (0.62 lb)
TFH 1450	14.4-14.5 (0.56-.57")		
TFH 1510	14.6-15.1 (0.57-.59")		
TFH 1580	15.2-15.8 (0.60-.62")	600mm 23.62"	0.30 kg (0.66 lb)
TFH 1600	15.9-16.0 (0.63-.63")		0.33 kg (0.73 lb)
TFH 1690	16.1-16.9 (0.64-.67")		
TFH 1730	17.0-17.3 (0.67-.68")	650mm 25.59"	0.38 kg (0.84 lb)
TFH 1800	17.4-18.0 (0.69-.71")		
TFH 1840	18.1-18.4 (0.71-.72")		
TFH 1880	18.5-18.8 (0.73-.74")		

MATERIAL: ALUMINUM ALLOY

DESIGNED TO CONTROL HIGH FREQUENCY AEOLIAN VIBRATION AND IS SUITABLE FOR OPERATION WITHIN AN ENERGIZED ELECTRIC FIELD.

SUPPLIED COMPLETE WITH A SET OF LINE GUARDS FOR DIRECT INSTALLATION OVER THE OPGW OR ADSS OR WITH A SPECIFIC SIZED CLAMP FOR INSTALLATION OVER THE ARMOUR RODS OF SUSPENSION AND DEAD END FITTINGS.

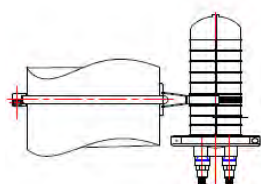
DEGREE OF PROTECTION NEEDED IS DEPENDENT UPON LINE DESIGN, TEMPERATURE, TENSION, EXPOSURE TO WINDFLOW AND VIBRATION HISTORY ON SIMILAR CONSTRUCTION IN THE SAME AREA. THE FOLLOWING RECOMMENDATIONS MAY BE USED AS A GENERAL GUIDE.

- * 100-300M, 2 PER SPAN (ONE ON EACH SIDE OF SUPPORT POINT)
- * 300-600M, 4 PER SPAN (TWO ON EACH SIDE OF SUPPORT POINT)
- * 600-900M, 6 PER SPAN (THREE ON EACH SIDE OF SUPPORT POINT)
- * 900-1200M, 8 PER SPAN (FOUR ON EACH SIDE OF SUPPORT POINT)

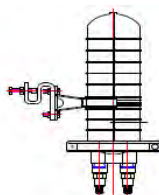


JOINT BOXES

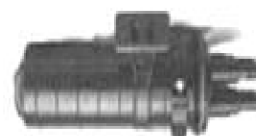
PLASTIC JOINT BOX FOR ADSS



The Plastic Joint Box for pole ADSS

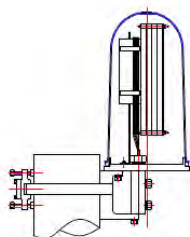


The Plastic Joint Box for tower ADSS

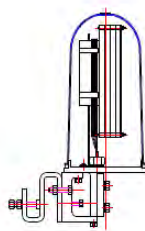


THE PLASTIC JOINT BOX FOR ADSS FEATURES DURABLE HIGH-DENSITY THERMOPLASTIC SHELLS THAT WEIGH LESS THAN THE METAL COUNTERPARTS. FOR LOOSE TUBE BUFFER TYPE FIBER, IT HANDLES UP TO 96 SPLICES. IT INCLUDES 2 PORTS TYPE AND 4 PORTS TYPE FOR SELECTION.

METAL JOINT BOX FOR OPGW AND ADSS



The metal Joint Box for pole



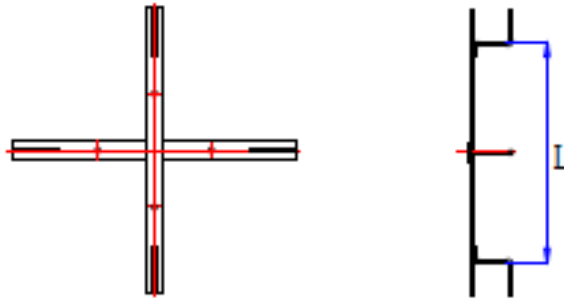
The metal Joint Box for tower



THE METAL JOINT BOX FOR OPGW AND ADSS FEATURES CORROSION-RESISTANT ALUMINUM ALLOY SHELLS. FOR LOOSE TUBE BUFFER TYPE FIBER, IT CAN MANAGE UP TO 114 FIBER SPLICES. THE BOX ALLOWS FUTURE EXPANSION OR "GROWTH" INTO THE BOX WITH MINIMAL COST OR DISRUPTION TO THE EXISTING FIBERS. IT INCLUDES 2 PORTS TYPE AND 3 PORTS TYPE, 4 PORTS TYPE, 5 PORTS TYPE FOR SELECTION.



CABLE STORAGE ASSEMBLIES

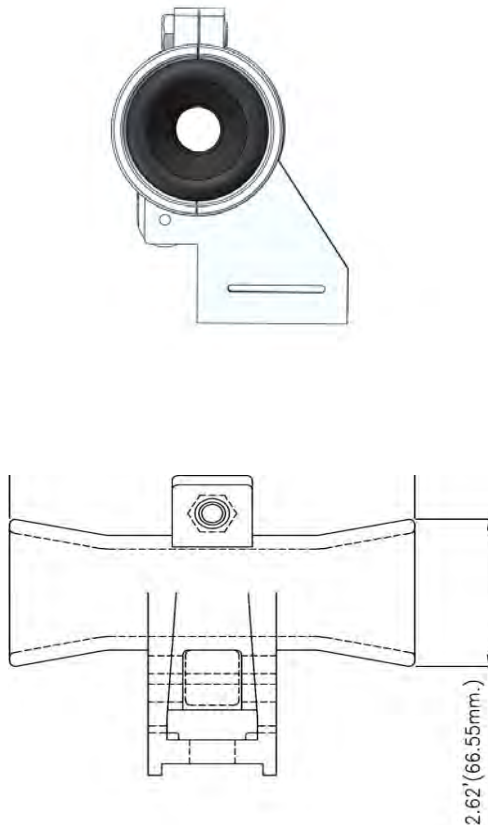


THE CABLE STORAGE ASSEMBLIES PROVIDE A METHOD FOR STORING ADSS OR OPGW CABLE ON WOOD POLES, METAL POLES, CONCRETE POLES, AND LATTICE TOWERS. THE BASIC KITS CAN BE COMBINED INTO VARIOUS CONFIGURATIONS TO SUIT YOUR SPECIFIC APPLICATION.

AVAILABLE LENGTHS: 660mm,1000mm,1200mm



TANGENT SUPPORT CLAMPS



TANGENT SUPPORT CLAMPS ARE SUITABLE FOR USE WITH SPAN LENGTHS UP TO 600', WITH A MAXIMUM LINE ANGLE OF 20°. THE CLAMP MAY BE USED AS A STRINGING DEVICE BY REMOVING THE INSERTS, WITH APPROVAL FROM FIBER OPTIC CABLE SUPPLIER.

RECOMMENDED TORQUE WITH 3/8" BOLT IS 15LBFT (20.3Nm)

MATERIAL:

- * MAIN BODY -- AL ALLOY
- * INSERT -- EPDM RUBBER
- * BOLTS/NUTS -- STAINLESS STEEL

CATALOG NUMBER.	CABLE RANGE mm (in)
TSC 0325	7.0-8.2 (0.28-.32")
TSC 0375	8.3-9.5 (0.33-.37")
TSC 0425	9.6-10.7 (0.38-.42")
TSC 0475	10.8-12.0 (0.43-.47")
TSC 0525	12.1-13.3 (0.48-.52")
TSC 0575	13.4-14.6 (0.53-.57")
TSC 0625	14.7-15.8 (0.58-.62")
TSC 0675	15.9-17.1 (0.63-.67")
TSC 0725	17.2-18.4 (0.68-.72")
TSC 0775	18.5-19.6 (0.73-.77")
TSC 0825	19.7-21.0 (0.78-.82")
TSC 0875	21.1-22.2 (0.83-.87")
TSC 0925	22.3-23.5 (0.88-.92")
TSC 0975	23.6-24.7 (0.93-.97")
TSC 1025	24.8-26.0 (0.98-1.02")
TSC 1075	26.1-27.2 (1.03-1.07")
TSC 1125	27.3-28.7 (1.08-1.12")



MAIN INDEX

AUTOMATIC CONNECTORS -----	1
BOLTED CONNECTORS -----	2
DEADEND AND SUSPENSION CLAMPS -----	3
HARDWARE -----	4
INSULATORS -----	5
TOWER HARDWARE -----	6
PORCELAIN CUTOUTS -----	7
SURGE ARRESTERS -----	8
FIBERGLASS GUY STRAIN INSULATORS -----	9
FIBERGLASS PRODUCTS -----	10
FORMED WIRE PRODUCTS -----	11
HELIX ANCHOR PRODUCTS -----	12
OPGW / ADSS FITTINGS -----	13



GRID Power Products is a global supplier of power line materials used in the utility and telecom industry. With sales made in over 50 countries worldwide, our products continue to be approved at some of the largest utilities in the world.

In an industry of many changes, **GRID Power Products** strives to uphold the service that is necessary for our customers to remain competitive. With over 40 years experience in the utility industry, our staff is very capable of handling your many requirements. GPP products are tested at state of the art independent testing laboratories, meeting the standards set forth by : ANSI, ASTM, IEC, and RUS. Samples from each production run are tested as part of our quality control. Our primary advantage we have over our competition is that we are large enough to supply any volume need, but small enough to supply any custom requirement.

Our goal is simple: *To provide top quality products at a competitive price with a service that is unmatched in the industry.*

Pole line hardware
Bolted connector
Dead-end and suspension clamps
Fiberglass guy strain insulator Cutout and fuse-links
Insulators

Bolts/Nuts Anchor Rods Crossarm Pins
 Dead-end and Suspension Clamps
 Automatic Guy Grips Automatic Splices
 Bolted Connectors Insulators Fiberglass Guy Strain Insulators
 Preformed Line Products ADSS /OPGW Fittings
 Fuse Cutouts and Arresters

Contact Grid **Power** Products

**Mailing Address**

PO BOX 13326
Macon GA 31208

Physical Address

2225 Ronald Ave
Macon GA 31217

Email: Sales@gridpowerproducts.com

Phone: 478-254-2721

Fax: 478-254-3582

<https://www.gridpowerproducts.com/>

