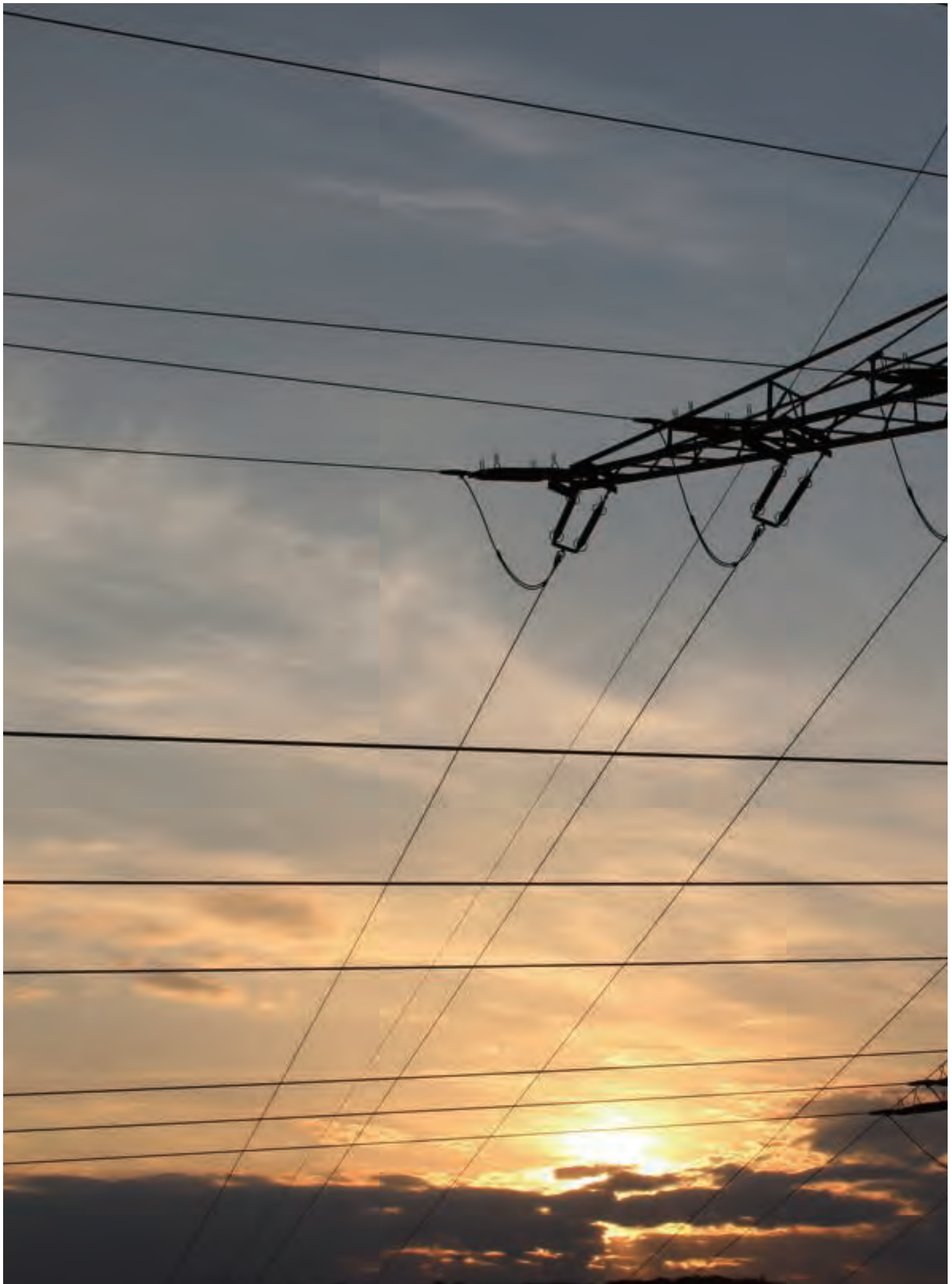




PRODUCT CATALOGUE

China's Leading Export Enterprise
In Power And Communication Industry.



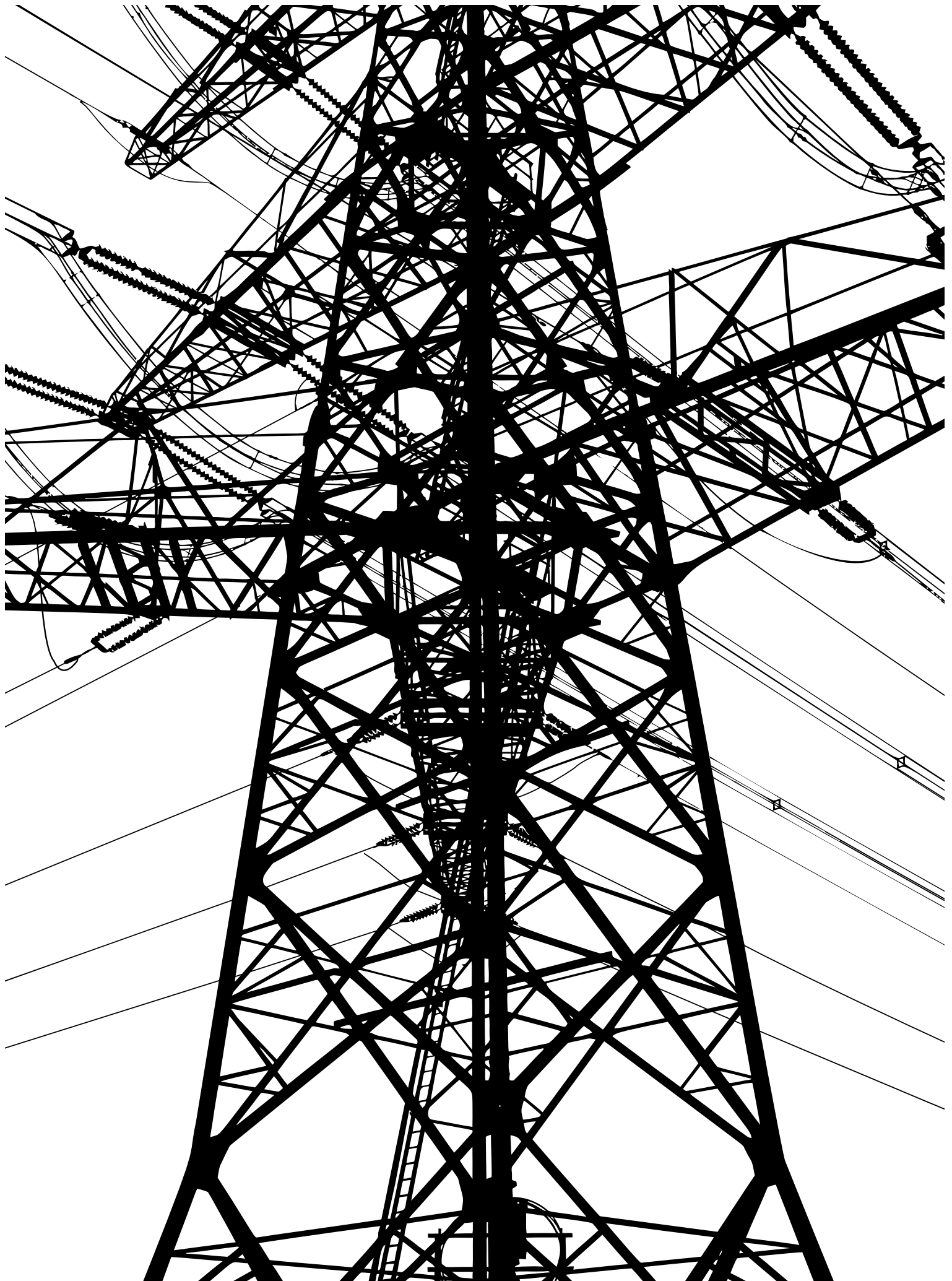


TTF ELECTRIC POWER TECHNOLOGY CO.,LTD. was founded in Tianjin City, China in 2000 to supply Pole line Hardware for the growing electrical utility and communication markets. TTF POWER operates from a stand-alone 20,000 square meters facility, Hebei Province, 100km from Tianjin and Beijing.

We serve the electrical utility and communication market with a complete line of distribution, EHV Transmission and other poleline hardware as well as Substation and structural steelwork.

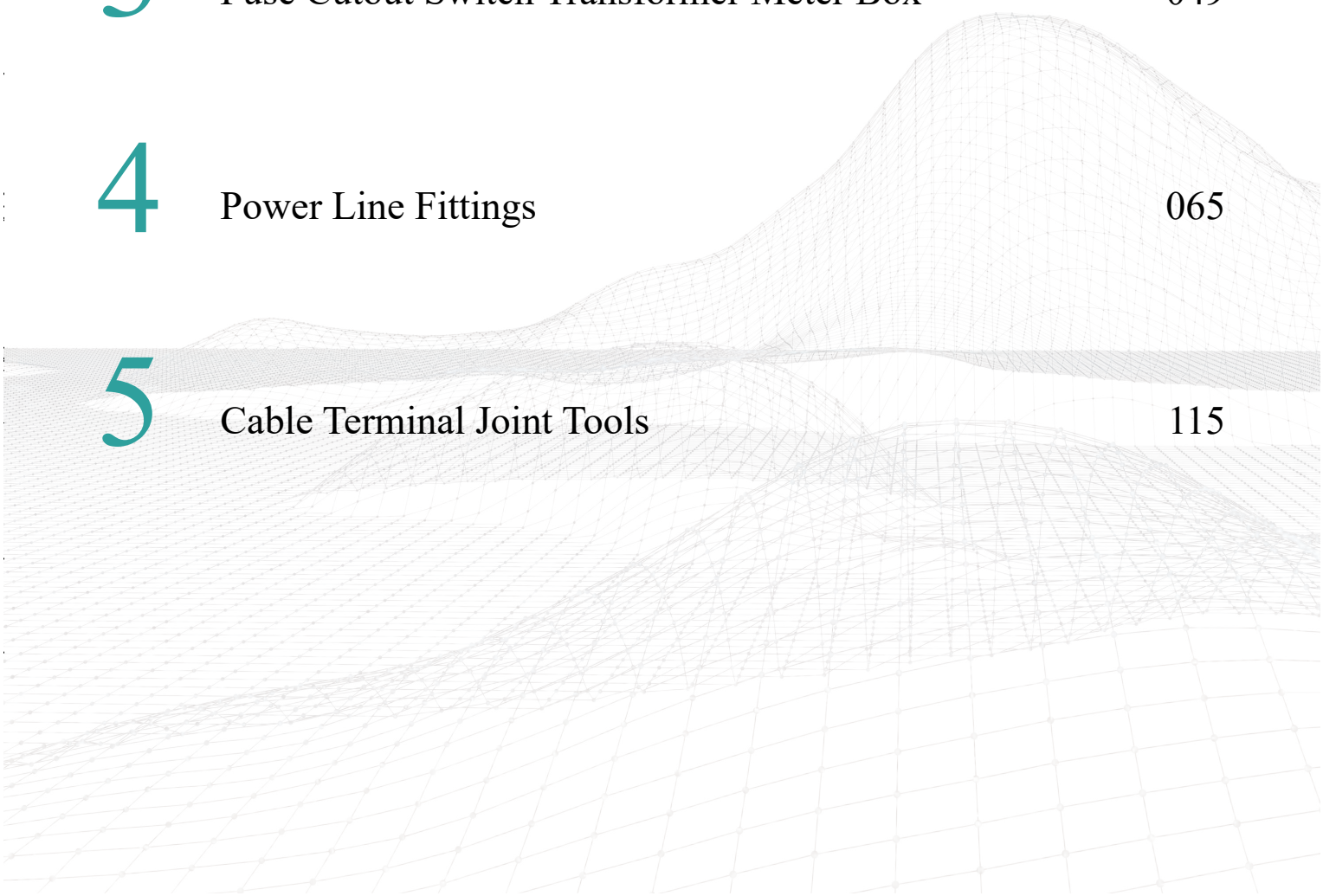
Our main focus continues to be the highest quality line hardware supplier. Knowledge gained from over 20 years of forging, stamping, welding, casting and machining has provided the opportunity for entry into many other markets. Our OEM focus is power line equipment and construction industry, although several other markets are served. TTF POWER expanded its product line into assembly of polymer insulators, cutout(-drop-out)fuses, arresters and manufacture by taking shares in partner manufacturers. This complements the manufacture of distribution equipment, transmission line equipment and substation equipment and other structural transmission components such as steel crossarms, davit arms and anchoring assemblies.

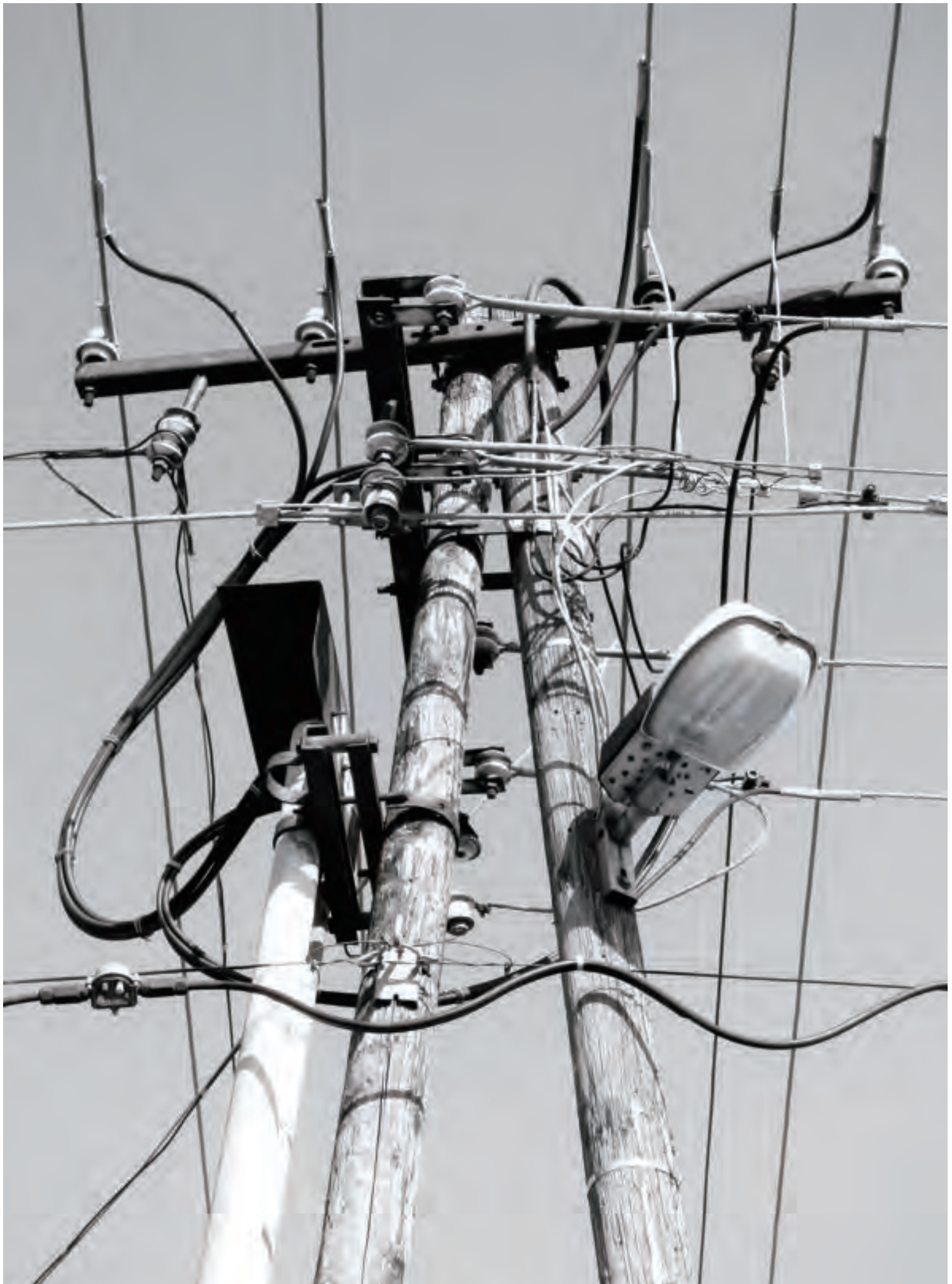
TTF POWER Quality Management System is registered by ZCHX to ISO 9001:2015,. TTF POWER also maintains ISO45001:2018 of occupational health and safety management system certificate.



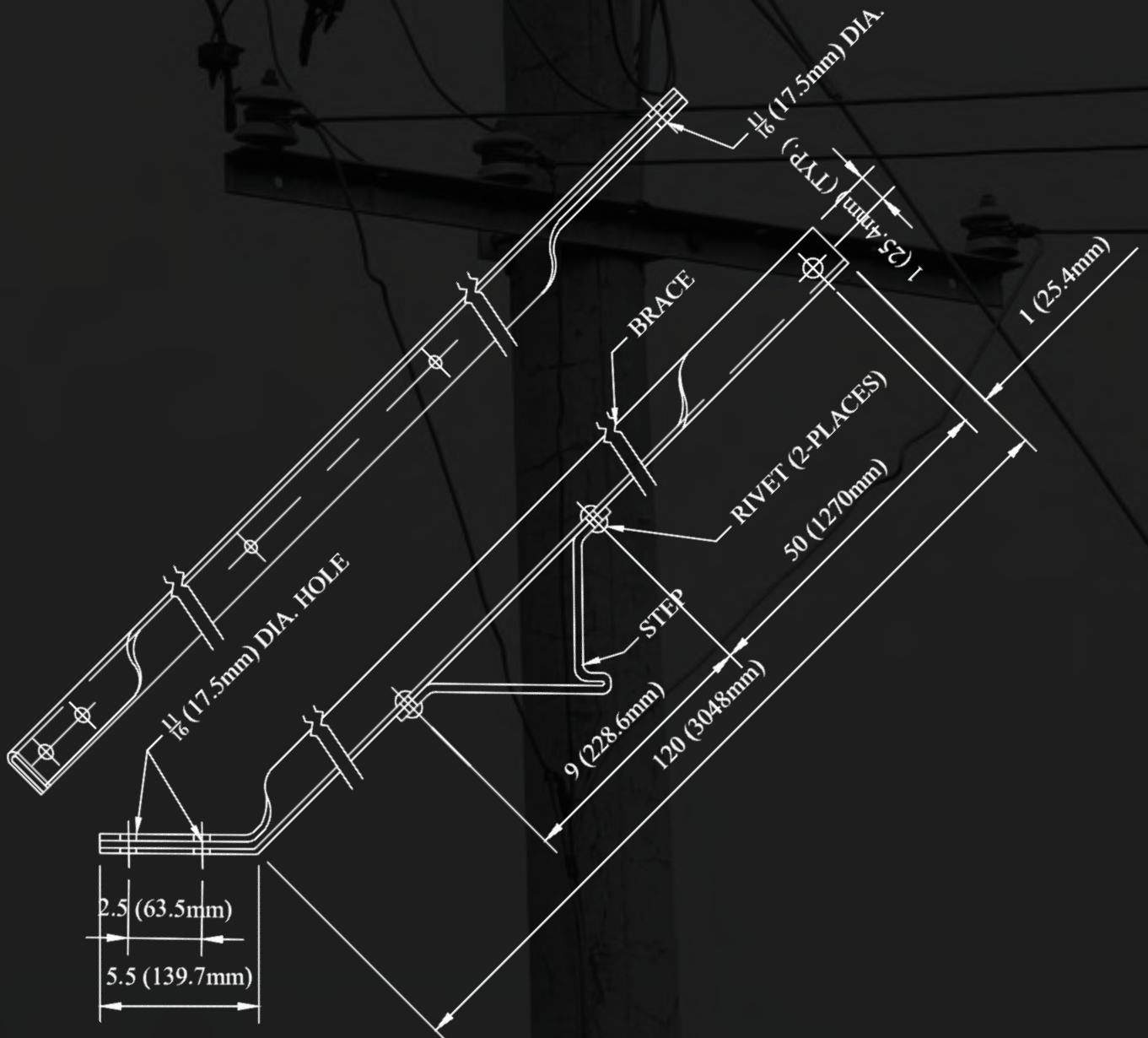
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POLE LINE HARDWARE



Cable Extension Arm

For suspending cables at a distance from the pole, Cable Suspension Clamp is usually used under the arm, attached through the center slot to a 5/8" machine bolt with a washer under the bolt head. Cable extension from the pole is 23" for No. TCEA01, 41" for No. TCEA02. Cable clamp with attachment bolt and pole mounting bolts, or lag screws, must be ordered separately. Hot dip galvanized.



Type	Weight (Lbs) 100
TCEA01	2900
TCEA02	6200

Pole Bands Adjustable

Use steel Pole Bands on wood poles. Take-offs for guy and insulation attachments can be made by using connecting links (see below). Bands are shipped unassembled.



Type	Pole Dia.	Size Stud	Lag Hole Size	Size Steel	Weight (Lbs) 100
TPBA01	6" - 11 1/2"	3/4 x 6"	9/16"	1/4 x 4"	1560
TPBA02	9 1/2" - 14"	3/4 x 6"	9/16"	1/4 x 4"	2360
TPBA03	9 1/2" - 16"	3/4 x 8"	9/16"	1/4 x 4"	2820

Pole Bands Secondary Rack

For attaching secondary racks to tubular metal poles. Bands are equipped with 5/8" x 2" carriage bolts for attaching the racks, and 1/2" x 15/8" oval-shoulder clamp bolts for tightening bands on pole. Hot dip galvanized 1/4" x 11/2" steel. Made in two styles, the single type for attaching one rack and the double type for two racks.



Series	Type	Dimension Inch (mm)	Rangc (mm)	Inch	Width (mm)	Gauge (mm)
RL	TRL01	8(203)	178-203	7-8	64/50	8/6
	TRL02	9(229)	203-229	8-9	64/50	8/6
	TRL03	10(254)	229-254	9-10	64/50	8/6
	TRL04	11(279)	254-279	10-11	64/50	8/6
CA	TCA01	8(203)	178-203	7-8	64/50	8/6
	TCA02	9(229)	203-229	8-9	64/50	8/6
	TCA03	10(254)	229-254	9-10	64/50	8/6
DEG	TDEG01	8(203)	178-203	7-8	64/50	8/6
	TDEG02	9(229)	203-229	8-9	64/50	8/6
	TDEG03	10(254)	229-254	9-10	64/50	8/6
GCA	TGCA01	8(203)	178-203	7-8	64/50	8/6
	TGCA02	9(229)	203-229	8-9	64/50	8/6
	TGCA03	10(254)	229-254	9-10	64/50	8/6

Carriage Bolts

Carriage Bolts have square nuts, finished points and rolled threads. Standard heads have square shoulders. Open-hearth steel. Hot dip galvanized.



Type	Bolt Length	Thread Length	Weight (Lbs) 100
3/8-Inch Diameter			
TCB-A01	4	1 3/4	15.6
TCB-A02	4 1/2	1 3/4	17
TCB-A03	5	1 3/4	17.6
TCB-A04	6	1 3/4	21.6
TCB-A05	7	1 3/4	22
1/2-Inch Diameter			
TCB-B01	5	3	31
TCB-B02	5 1/2	3	37.5
TCB-B03	6	3	38
TCB-B04	7	4	44

Clevis Bolts

For supporting crossarm suspension insulator strings. Cotter bolt is 23/4" long and comes with cotter pin and hex nut. Clevis Bolts are drop-forged steel. Hot dip galvanized.



Type	Weight (Lbs) 100
TCB01	150
TCB02	199
TCB03	217
TCB04	220
TCB05	200
TCB06	257
TCB07	280
TCB08	304

Double Arming Eye Bolts

Bolts have a cone type point and are threaded to M within 2" of the 1 1/2" x 2" eye. Three Square Nuts. Drop-forged steel. Hot dip galvanized.



Type	B length	Weight (Lbs) 100
TDAEB01	14	196
TDAEB02	16	220
TDAEB03	18	232
TDAEB04	20	256
TDAEB05	22	260

Double Arming Full Thread Bolts

Bolts permit replacement ease in double arms and offer added flexibility of use. Cone type point for easy starting and driving-out without damage to threads. Each bolt provided with four square nuts. Hot dip galvanized steel.

Type	Length	Weight (Lbs) 100
1/2-Inch Shank Diameter		
TDAFTB-A1	16	117
TDAFTB-A2	18	125
3/4-Inch Diameter		
TDAFTB-B01	6	128
TDAFTB-B02	8	150
TDAFTB-B03	12	234
TDAFTB-B04	14	240
TDAFTB-B05	16	248
TDAFTB-B06	18	272
TDAFTB-B07	20	292
TDAFTB-B08	22	316
TDAFTB-B09	24	328
TDAFTB-B10	26	365
5/8-Inch Diameter		
TDAFTB-C01	12	126
TDAFTB-C02	14	156
TDAFTB-C03	16	176
TDAFTB-C04	18	196
TDAFTB-C05	20	204
TDAFTB-C06	22	220
TDAFTB-C07	24	240
TDAFTB-C08	26	256
TDAFTB-C09	28	268
TDAFTB-C10	30	270
TDAFTB-C11	32	280

Machine Bolts

Are also called crossarm bolts or through bolts. Bolts have rolled threads and one square nut. Bolts six inches or longer have cone-type points. Hot dip galvanized.



Type	Bolt Length	Thread Length	Weight (Lbs) 100
3/8-Inch Diameter			
TMB-A1	4	3	15
TMB-A2	4 1/2	3	17.2
TMB-A3	5	3	18.8
TMB-A4	5 1/2	3	19.6

Machine Bolts

Type	Bolt Length	Thread Length	Weight (Lbs) 100
1/2-Inch Diameter			
TMB-B01	1 1/2	1 1/4	17.6
TMB-B02	4 1/2	3	33
TMB-B03	5	3	35
TMB-B04	6	3	39
TMB-B05	7	3	48
TMB-B06	8	4	49
TMB-B07	9	4	57
TMB-B08	10	4	60
TMB-B09	12	6	71
TMB-B10	14	6	73
5/8-Inch Diameter			
TMB-C01	5	3	60
TMB-C02	6	3	69
TMB-C03	7	4	75
TMB-C04	8	4	78
TMB-C05	9	4	84
TMB-C06	10	6	99
TMB-C07	12	6	112
TMB-C08	14	6	126
TMB-C09	16	6	134
TMB-C10	18	6	149
TMB-C11	20	6	164
TMB-C12	22	6	176
TMB-C13	24	6	194
3/4-Inch Diameter			
TMB-D01	8	4	126
TMB-D02	10	6	154
TMB-D03	12	6	166
TMB-D04	14	6	188
TMB-D05	16	6	225
TMB-D06	18	6	232
TMB-D07	20	6	252
TMB-D08	22	6	268
TMB-D09	24	6	304
TMB-D10	26	6	308
7/8-Inch Diameter			
TMB-E1	14	6	284
TMB-E2	16	6	316
TMB-E3	18	6	352
TMB-E4	20	6	390
TMB-E5	22	6	425

Ovaleye Bolts

Bolts with 5/8" and 3/4" shanks have 1 1/2" x 2" ovaleyes. Drop-forged, galvanized steel bolts have cone type points and rolled threads.



Type	Bolt Length	Thread Length	Weight (Lbs) 100
3/4-Inch Diameter			
TMB-D01	8	4	126
TMB-D02	10	6	154
TMB-D03	12	6	166
TMB-D04	14	6	188
TMB-D05	16	6	225
TMB-D06	18	6	232
TMB-D07	20	6	252
TMB-D08	22	6	268
TMB-D09	24	6	304
TMB-D10	26	6	308
7/8-Inch Diameter			
TMB-E1	14	6	284
TMB-E2	16	6	316
TMB-E3	18	6	352
TMB-E4	20	6	390
TMB-E5	22	6	425

Screw Eye Bolts

Gimlet-point lag-screw thread. Drop-forged except 8777. Hot dip galvanized.



Type	Size of Eye	Dia.	Length Under Eye	Weight (Lbs) 100
TSEB1	1 1/4 X 1 5/8	1/2	6	65
TSEB2	1 1/4 X 1 5/8	1/2	4	54
TSEB3	3/4	3/8	3 1/2	16

Thimble Eye Bolts

Bolts with 5/8" and 3/4" shanks have 1 1/2" x 2" ovaleyes. Drop-forged, galvanized steel bolts have cone type points and rolled threads.



Type	Size Inches	Thread Length	Weight (Lbs) 100
TTEB1	5/8 X 8	4	112
TTEB2	5/8 X 10	4	148
TTEB3	5/8 X 12	6	176
TTEB4	5/8 X 14	6	188
TTEB5	5/8 X 16	6	195
TTEB6	5/8 X 18	6	200
TTEB7	3/4 X 10	4	228
TTEB8	3/4 X 12	6	244
TTEB9	3/4 X 14	6	264

Double Upset Bolts

Bolts with 5/8" and 3/4" shanks have 1 1/2" x 2" ovaleyes. Drop-forged, galvanized steel bolts have cone type points and rolled threads.



Type	A Length	L Length	B Length	Weight (Lbs) 100
TDUB1	8	13 3/4	6	166
TDUB2	9	14 3/4	6	162
TDUB3	10	15 3/4	6	168
TDUB4	12	17 3/4	6	186
TDUB5	14	19 3/4	6	204

Single Upset Bolts

Gimlet-point lag-screw thread. Drop-forged except 8777. Hot dip galvanized.



Type	A Length	L Length	B Length	Weight (Lbs) 100
TSUB1	8	12 3/4	4	138
TSUB2	9	13 3/4	4	144
TSUB3	10	14 3/4	4	170
TSUB4	12	16 3/4	6	186
TSUB5	14	18 3/4	6	196

Alley Arm Braces Crossarm

Used for side-arm construction. Furnished with lineman's steps. Hot dip galvanized.



Type	Length Feet	Angle Size Inches	Weight (Lbs) 100
TAABC1	5	1 3/4 X 1 3/4 X 3/16	1300
TAABC2	7	1 3/4 X 1 3/4 X 3/16	1788
TAABC3	10	2 X 2 X 1/4	1780

Side Arm Braces Crossarm

Used on three-phase medium-voltage lines, brace is placed on side op_x0002_posite odd conductor to support the unbalanced load. Can be used for either right or left support. Hot dip galvanized.



Type	Length Feet	Angle Size Inches	Weight (Lbs) 100
TSABC1	5	1 3/4 X 1 3/4 X 3/16	1200
TSABC2	7	1 3/4 X 1 3/4 X 3/16	1688
TSABC3	10	2 X 2 X 1/4	1680

“V” Braces Crossarm

Furnished with 9/16" holes for crossarm mounting. 11/16" holes for pole mounting. The “1” series has a 9/16" x 1" slot in place of the 9/16" diam_x0002_eter crossarm mounting holes. Hot dip galvanized.



Type	Size of Angle	Weight (Lbs) 100
TVBC1	1 1/2 X 1 1/2 X 3/16	820
TVBC2	1 1/2 X 1 1/2 X 3/16	980
TVBC3	1 1/2 X 1 1/2 X 3/16	1100
TVBC4	1 1/2 X 1 1/2 X 3/16	920
TVBC5	1 1/2 X 1 1/2 X 3/16	1340
TVBC6	1 1/2 X 1 1/2 X 3/16	1600
TVBC7	1 1/2 X 1 1/2 X 3/16	820
TVBC8	1 1/2 X 1 1/2 X 3/16	1120

Flat Braces Crossarm

Have rounded ends and are punched at one end with a 9/16" hole, with a 7/16" hole at the other end. Holes punched 1-inch from brace end to center of hole. Hot dip galvanized.



Type	Size of Angle	Weight (Lbs) 100
7/32" x 17/32" Braces		
TFBC-A1	18	140
TFBC-A2	24	185
TFBC-A3	26	200
TFBC-A4	28	215
TFBC-A5	30	225
1/4" x 11/4" Braces		
TFBC-B1	24	230
TFBC-B2	26	240
TFBC-B3	28	255
TFBC-B4	30	275
TFBC-B5	32	295
TFBC-B6	34	315
TFBC-B7	36	335

Crossarm

Used for side-arm construction. Furnished with lineman's steps. Hot dip galvanized.



Type	h	b	L	Weight (kg)
TC1	5	50	2000	10.00
TC2	6	60	2000	12.00
TC3	8	80	2000	16.50
TC4	10	100	2000	21.00
TC5	12	125	2000	26.50

Stay Rod

This stay rod is used for connecting the stay wire to the ground anchor. It is also known as the stay set. It ensures that the wire is firmly rooted to the ground and everything remains stable. Tubular stay rod is adjustable through its turnbuckle. On the other hand, bow type stay rod is further divided into different categories which include stay thimble, stay rod and stay plate. The steel is galvanized hence is free from rust and corrosion. The pole line accessory cannot be damaged by various elements.



Type	M	L	R	Weight (kg)
TSR1	M16	1800	10	4.5
TSR2	M18	2000	10	5.2
TSR3	M20	2200	10	5.8
TSR4	M25	2500	10	7.5

Aluminum Alloy Strain Clamp

Aluminum Alloy Strain Clamp is one type of single tension hardware that used for completing the tensional connection on a conductor or cable, and it provides mechanical support to the insulator and conductor. It is usually used with fitting like clevis and socket eye on the overhead transmission lines or distribution lines.



Type	Suitable conductor Dia (mm)	L	L1	C	M	Bolt of M1	Specified Failure Load (kN)	Weight (kg)
NLL01	5.0-10.0	100	135	17.5	16	2-M12	40	0.702
NLL02	10.1-14.0	115	165	18.5	16	2-M12	40	0.824
NLL03	14.1-18.0	150	235	27	18	3-M14	70	1.714
NLL04	18.1-23.0	155	255	27	18	3-M14	90	2.237
NLL05	23.1-29.0	180	255	30	18	4-M14	100	2.428
NLL06	5.0-10.0	120	140	21	16	2-M12	40	0.831
NLL07	10.1-14.0	150	170	22	16	2-M12	40	1.008
NLL08	14.1-18.0	170	252	25	16	3-M14	70	1.83
NLL09	18.1-30.0	230	265	31.5	18	3-M14	90	2.42
NLL10	5.0-16.0	100	110	20.5	16	2-M12	40	0.734
NLL11	5.0-16.0	120	140	19	16	2-M12	40	0.835
NLL12	14.0-23.0	160	195	25	16	2-M12	70	1.331
NLL13	11.4-23.0	170	185	24.5	16	2-M12	60	1.144
NLL14	18.0-23.0	195	210	27	16	2-M12	60	1.403
NLL15	12.7-26.5	205	265	28	16	3-M14	70	1.714
NLL16	18.0-29.0	180	265	30	18	4-M14	100	2.428

Aluminum Suspension Clamp

Suspension clamp is mainly used for overhead power lines. The conductor and lightning conductor are suspended on the insulator string or the lightning conductor is suspended on the pole tower through the connection of metal fittings. It is made of High-strength aluminum alloy.



Type	Applicable Conductor dia (mm)	H	C	M	R	L	Weight (kg)
CGH Series							
CGH1	5.1~12.5	55	17	16	7	170	0.71
CGH2	12.4~18.5	62	22	16	10.5	180	1.1
CGH3	17.8~26.0	62	27	16	13	203	1.55
CGH4	25.0~35.0	68	37	16	18	216	2
CGH5	25.0~35.0	68	37	16	18	216	2
CGH6	30.0~42.5	85	47	16	23	245	2.15
CGF Series							
CGF1	23~32	147	20	16	17	300	3.55
CGF2	33~43	168	20	18	23	300	4
CGF3	40~52	182	20	18	27	350	4.5

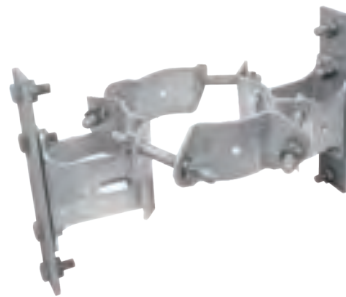
Transformer Mounting Brackets

These easy-to-install cluster mounts have a curved back to fit round, tapered poles from 6" (15.2 cm) to 10 1/2" (26.7 cm) in diameter. Manufactured of high-strength steel, galvanized per ASTM A-153. Standard duty mounts have one set of four 6" long clamping bolts. Heavy-duty mounts have two sets of bolts. Lag screws can be used to position the mounting bracket before tightening clamping bolts. Support rating, however, does not depend on the use of lag screws. All banding hardware for mounting to the pole, hardware to attach transformer to mounting bracket, ground clamp and installation instructions are included. The Banded Cluster Mounts may be ordered in packages (recommended), or by components (not recommended). Brackets provide 6 3/8" of pole clearance.



Horizontal Adapter Plate

Two bracket assemblies, can be used for mounting 167 KVA to 500 KVA by adding horizontal adapter plates. Plates should be used with two brackets to make a complete assembly. Two plates are required for each transformer. Each plate is furnished with one 5/8" x 13/4" machine bolt.



Vertical Adapter Plate

One plate is required for each transformer. Plates furnished with three 5/8" x 13/4" machine bolts.



Guy Clamp

Parallel grooves trap strand tightly without marring. Plate halves align evenly for easy application. Each bolt has a shoulder to prevent turning while tightening. Hot dip galvanized.



Type	Bolts	Length	Width	Accepts Strand Size	Weight (Lbs) 100
5/8" Clamp Bolts					
TGC-A1	3	6	2 1/8	3/8 thru 5/8	390
TGC-A2	3	6	1 21/32	5/16 thru 1/2	252
TGC-A3	2	4	1 21/32	5/16 thru 1/2	178
1/2" Clamp Bolts					
TGC-B1	2	3 3/8	1 9/16	1/4 thru 7/16	132
TGC-B2	3	4	1 9/16	1/4 thru 7/16	162
TGC-B3	3	6	1 9/16	1/4 thru 7/16	228

Messenger Suspension Clamp

Clamps are used with through bolts to support cable at poles. Through bolt also serves as clamping member. One or more nuts and/or washers are used between the pole and clamp for required spacing. No. 7901 is used on very light cables. This one bolt clamp consists of the two clamping members only. Nos. 7902L and 7902R are used at corners and angles. Nos. 7903 and 7904 are used on straight runs.

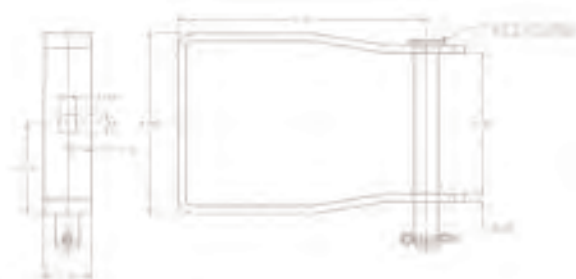
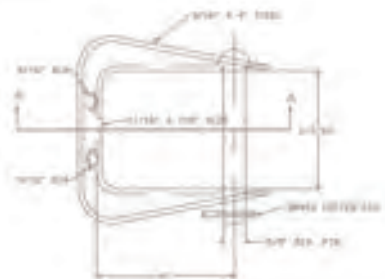
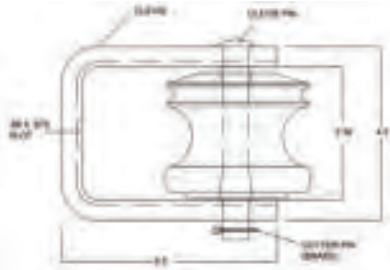
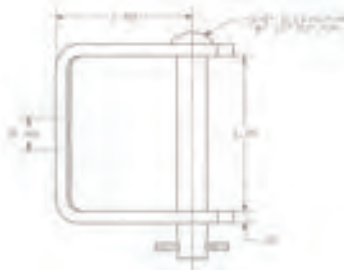


Type	Bolts	Length	Center Hole Dia.	Accepts Strand Size	Weight (Lbs) 100
TSC01	1	2 1/2	11/16	1/4 thru 7/16	75
TSC02	3	7	11/16	1/4 thru 7/16	232
TSC03	3	7	13/16	1/4 thru 7/16	232
TSC04	3	5 5/8	11/16	1/4 thru 7/16	178
TSC05	3	5 5/8	11/16	1/4 thru 7/16	177
TSC06	3	5 5/8	13/16	1/4 thru 7/16	212

Clevises

Clevis bracket for spool insulators used in secondary deadend applications. Minimum ultimate deadend strength is 2,000 lbs or 4000lbs. Used with spool insulators.





Wire Rope Guy Wire Clips

Body of each clip is galvanized ductile iron designed to fit the strand, which is protected by smooth-rounded contact surfaces. Bolts are made of high-strength steel.



Type	Size of Strand, In.	Weight (Lbs) 100
TWRGWC1	1/4	12.5
TWRGWC2	5/16	13.5
TWRGWC3	3/8	22.5
TWRGWC4	1/2	56.3
TWRGWC5	5/8	111

Thimble Clevis

Combines a steel-attachment clevis with a wire-rope thimble. Thimble has 2" diameter wire groove for dead-ending strand and swings free for flexibility. Hot dip galvanized.



Type	Steel Gauge	Cotter Bolt Diameter	Weight (Lbs) 100
TTC01	10	5/8	94

Standard Eyenuts

Most commonly used for deadending, back-guying, and attaching pole head guys on the threaded ends of crossarm bolts. Drop-forged hot dip galvanized steel.

Type	For Bolt Dia	Weight (Lbs) 100
TSE1	1/2	51
TSE2	5/8	46
TSE3	5/8	51
TSE4	3/4	54



Thimble Eyenuts

For attaching to thru-bolts or threaded end of straight or angle-Thimbleye bolts for straight-away head guys. Drop-forged galvanized steel. Nuts are contoured to minimize bending and kinking of guy strand.

Type	For Bolt Dia	Weight (Lbs) 100
TTE1A	5/8	78
TTE2A	3/4	72



Twin Eyenuts

Used for head or stub guying of two strands, Twineye Nuts can be attached to thru-bolts or threaded end of straight or angle Thimble eye bolts. Grooves are contoured to protect guy strands. Drop-Forged galvanized steel.

Type	For Bolt Dia	Weight (Lbs) 100
TTE1B	5/8	190
TTE2B	3/4	184
TTE3B	1	188



Angle Eyelet

Used for attaching to thru-bolt or threaded end of straight or angle Thimble eye bolt for down guying. Rounded groove protects guy strand from sharp bending and kinking. Drop-forged galvanized steel.

Type	For Bolt Dia	Weight (Lbs) 100
TAE1	5/8	120
TAE2	3/4	132



Thimble Eyelet

Used on ordinary machine bolts for straight-away guys. Rounded groove protects guy strand from sharp kinks and bends. Drop-forged galvanized steel. Construction for high strength applications.

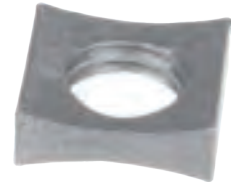
Type	For Bolt Dia	Weight (Lbs) 100
TAE1C	5/8	123
TAE2C	3/4	130



Nuts

M-F Curved Lock Nuts

Type	Bolt Size	Weight (Lbs) 100
TNM1	3/8	1.25
TNM2	1/2	2.6
TNM3	5/8	4.44



Palnut Lock Nuts

Type	Bolt Size	Width	Weight (Lbs) 100
TNP1	3/8	5/8	0.39
TNP2	1/2	13/16	0.92
TNP3	5/8	1	1.34
TNP4	3/4	1 1/8	1.73



Square Nuts

Type	Bolt Size	Weight (Lbs) 100
TNS1A	3/8	2.6
TNS2A	1/2	8
TNS3A	5/8	10.4
TNS4A	3/4	14.4
TNS5A	7/8	30
TNS6A	1	50
TNS1B	1/2	12.5
TNS2B	5/8	12.8
TNS3B	3/4	22
TNS4B	1	50
TNS5B	1 1/4	100



Washer Nuts

Type	Bolt Size	Weight (Lbs) 100
TNW1	5/8	38



Hex Nuts

Forged Steel Pins

Made with 1" lead thread for 1" pin-type insulators. 1/2" and 5/8" dia. shank pins are furnished with 2" x 2" x 1/8" square washers, and the 3/4" pins with 2 1/4" x 3/16" square washers. These pins come with square nut and curved lock nut. Short shank pins come with spring lock-washer and square nut only. Hot dip galvanized.



Type	Length	Weight (Lbs) 100
For Wood Crossarms — Flat-Base Long-Shank Series		
TFSP01	10 3/4	180
TFSP02	11 1/2	192
TFSP03	12 1/2	196
TFSP04	11 3/4	184
TFSP05	12 1/2	264
TFSP06	13 5/8	290
TFSP07	15 5/8	340
For Steel Crossarms — Flat-Base Short-Shank Series		
TFSP1	6 1/2	124
TFSP2	7 1/2	136
TFSP3	7 3/4	184

High Voltage Forged Steel Pins

Use with pin-type insulators. Each pin is forged from a single steel piece. Lead threads are free of fins and mold-marks, perfect insulator seating. Made for wood crossarms, the long-shank type pins have a 3" x 3" x 3/16" square washer, square nut, curved locknut.



Type	Length	Weight (Lbs) 100
For Wood Crossarms — 1" Lead Thread Series		
THV01	11 1/2	232
THV02	11 1/2	276
For Wood Crossarms — 13/8" Lead Thread Series		
THV1	14	377
THV2	14	450
THV3	15	460
THV4	17	558

Nylon Thread Crossarm Insulator Pins

Nylon threads are an alternative to lead threads on steel pins. These forged steel pins are hot-dip galvanized. Available on 5/8" dia. shanks. Furnished with one each, 2" x 2" x 1/8" square washer, square nut and curved lock nut.



Type	Length	Weight (Lbs) 100
For Wood Crossarms — Flat-Base Long-Shank Series		
TNTCIP1A	10 3/4	180
TNTCIP2A	11 1/2	192
TNTCIP3A	12 1/2	196
TNTCIP4A	11 3/4	184
For Steel Crossarms — Flat-Base Short-Shank Series		
TNTCIP1B	6 1/2	124
TNTCIP2B	7 1/2	136

Pole Top Pins

Hot dip galvanized pressed steel, 1" lead thread. When no A dimension is given, the pin has two mounting holes only.



Type	Length	Weight (Lbs) 100
Straight Base Pins — 1" Threads Series		
TPTP1A	15	268
TPTP2A	18	320
TPTP3A	18	332
TPTP4A	21	460
TPTP5A	20	408
TPTP6A	20	416
TPTP7A	24	550
TPTP8A	24	600
TPTP9A	24	530
Straight Base Pins — 13/8" Threads Series		
TPTP1B	20	541
TPTP2B	24	541
Straight Base Pins — 13/8" Threads Series		
TPTP1C	21	580

Nylon Thread Pole Top Insulator Pins

Nylon threads are an alternative to lead threads on Chance hot-dip galvanized pole top pins. Mounting holes are 11/16" diameter. Bottom slot is 11/16" x 11/4".



Type	Length	Weight (Lbs) 100
TNTP TIP1	15	268
TNTP TIP2	18	320
TNTP TIP3	18	332
TNTP TIP4	21	460
TNTP TIP5	20	408
TNTP TIP6	20	416
TNTP TIP7	24	550
TNTP TIP8	24	600
TNTP TIP9	24	530

Crossarm Reinforcing Plates

Reinforcing plates prevent damage to the crossarm from tightened nuts. Pressed rib are normally used on the side of the crossarm to prevent the tightened nut from causing checking or splitting. Used on top or bottom of flat-top crossarms to impede the strain from forged steel pins.



Type	Steel Thickness	Crossarm Size	Hole Dia.	Weight (Lbs) 100
TCRP1	3/16	4 X 5	13/16	166
TCRP2	1/4	6 X 8	15/16	276
TCRP3	7	3 3/4 X 4 3/4	13/16	115

Double Arming Plats

Attached to the crossarm through the slots provided. Suspension at_x0002_tachment is made through center hole. Hot dip galvanized.



Type	Steel Size	Overall Length	Weight (Lbs) 100
Center-Suspension Series			
TDAP1	1/4 X 4	17	460
Clevis Connections Series			
TDAP2	1/2 X 4	24	1200

Lift and Load Plates

Used to protect poles on heavy down guying when Thimbleye, Angle_x0002_Thimbleye or Oval-Eye bolts are used through the pole. Hot dip galvanized.



Type	Description	Top	Bottom	Plate Size,Inches	Weight (Lbs) 100
TLaLP1	2-Hole Lift	9/16	3/4 X 1	3/16 x 21/2 x 7	98
TLaLP2	2-Hole Lift	9/16	7/8 X 1	1/4 x 21/2 x 7	126
TLaLP3	3-Hole Lift	9/16	3/4 X 1	3/16 x 21/2 x 7	97
TLaLP4	3-Hole Lift	9/16	7/8 X 1	1/4 x 21/2 x 7	126

Strain Plates

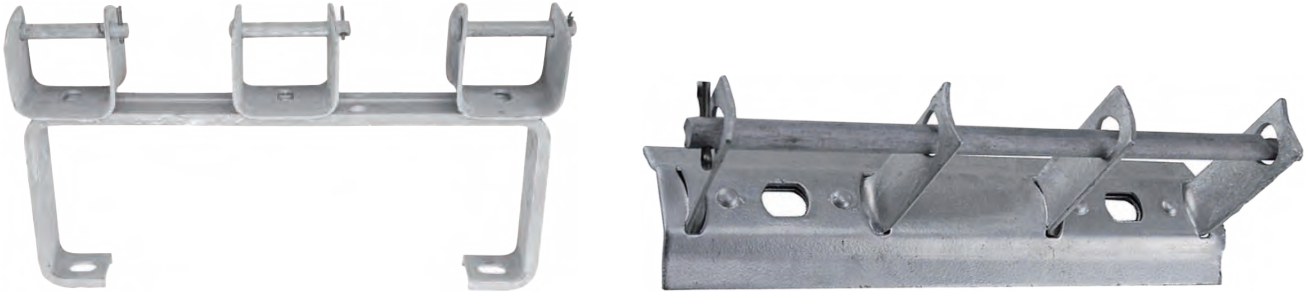
Strain Plates are used to prevent pole from being damaged by guy wire. Nail holes at corners are 3/16" diameter. Hot dip galvanized steel plates are formed to 5" radius.



Type	Dimensions,Inches	Weight (Lbs) 100
TSP1	4 x 8 x 14 Ga.	116

Secondary Racks

These racks have fabricated steel points that are permanently welded to the rack bases. The entire unit is hot dip galvanized. Insulators are not included.



Type	Wires	End Mtg. Hole Spacing	Overall Length, Back	Width of Back	Weight (Lbs) 100
Medium Type, Extended Back, 12 Gauge Series					
TSRA1	2	16	18	2 7/8	460
TSRA2	3	24	26	2 7/8	660
TSRA3	4	32	34	2 7/8	880
Heavy Type, Nonextended Back, 9 Gauge Series					
TSRB1	3	16	21 3/4	3 1/4	700
TSRB2	4	24	29 3/4	3 1/4	1020
Heavy Type, Extended Back, 9 Gauge Series					
TSRC1	3	24	26	3 1/4	800

Cable Racks

Hot dip galvanized racks with hook holes 11/2" apart. Fasten to manhole or interior walls with 1/2" x 4" expansion bolts (not included). Mounting slots 5/8" x 3/4" at top and bottom of 15", 24" and 30" lengths overlap for assembly in combinations for overall length desired.



Type	Hook Holes	Height	Width	Weight (Lbs) 100
TCR1	8	15	13 1/2	132
TCR2	14	24	22 1/2	230
TCR3	18	30	28 1/2	280
TCR4	37	55 1/4	-	570
TCR5	47	70 1/4	-	720

Cable Rack Hooks

Cable rack support hooks (stanchions) are installed in cable racks to support cable in underground vault applications.



Type	Length from Face of Rack	Channel Steel Size, Inches	Weight (Lbs) 100
TCRH01	4	11/2 x 11/8 x 3/16	42
TCRH02	4	11/2 x 11/8 x 3/16	42
TCRH03	7 1/2	11/2 x 11/8 x 3/16	96
TCRH04	7 1/2	11/2 x 11/8 x 3/16	108
TCRH05	10	11/2 x 11/8 x 3/16	116
TCRH06	10	11/2 x 11/8 x 3/16	136
TCRH07	10	11/2 x 21/16 x 13/64	175
TCRH08	14	11/2 x 135/64 x 3/16	204
TCRH09	14	11/2 x 135/64 x 3/16	204
TCRH10	18	11/2 x 135/64 x 3/16	260
TCRH11	18	11/2 x 135/64 x 3/16	260

Ground Rods

Hot dip galvanized racks with hook holes 11/2" apart. Fasten to manhole or interior walls with 1/2" x 4" expansion bolts (not included). Mounting slots 5/8" x 3/4" at top and bottom of 15", 24" and 30" lengths overlap for assembly in combinations for overall length desired.



Type	Pigtail Length, Inches	Dia., Inches	Length	Weight (Lbs) 100
TGGR01	28	1/2	5	340
TGGR02	18	1/2	5	340/350
TGGR03	-	1/2	5	400
TGGR04	-	5/8	5	600/626
TGGR05	48	5/8	8	800/820/860
TGGR06	-	5/8	7	940
TGGR07	-	5/8	10	1000
TGGR08	48	3/4	8	1200/1220
TGGR09	-	3/4	10	1460
TGGR10	-	1	10	2670
TGGR11	15	5/8	15	1620

Sectional Galvanized Ground Rods

Cable rack support hooks (stanchions) are installed in cable racks to support cable in underground vault applications.



Type	Description	Dia.,Inches	Length	Weight (Lbs) 100
TGGR01	Cone Point with 5/8" Thread	5/8	5	520
TGGR02	Cone Point with 5/8" Thread	5/8	8	860
TGGR03	Cone Point with 5/8" Thread	5/8	10	1043
TGGR04	Extension, 5/8" Thread, both ends	5/8	6	625
TGGR05	Coupling for above	5/8	2	18
TGGR06	Threadless Sectional Rod	5/8	8	800
TGGR07	Threadless Sectional Rod	5/8	10	1000
TGGR08	Threadless Coupling	5/8	-	150

Ground Rod Clamp

Heavy duty forged steel clamps provide secure, low resistance connections. One piece bodies. Hot dip galvanized. 1/2" square-head cup point set screw is hot dip galvanized.



Type	Rod Dia.,Inches	Wire Dia.Min.	Wire Dia.Max.	Weight (Lbs) 100
TGRC1	5/8	0.128	0.460	34
TGRC2	3/4	0.128	0.460	30

Lag Screws

Gimlet-point lag-screw thread. Drop-forged except 8777. Hot dip galvanized.



Type	Dia.	Length	Weight (Lbs) 100
Gimlet Point Series			
TLS01	1/4	1 1/2	2
TLS02	1/4	2	3.2
TLS03	1/4	2 1/2	4.4
TLS04	1/4	3	5.6
TLS05	3/8	3	9
Twist-Drive Pilot Point Series			
TLS06	1/2	4	22.8
Fetter Drive Pilot-Point Series			
TLS07	3/8	3	10.4
TLS08	3/8	4	13.6
TLS09	1/2	3	19.6
TLS10	1/2	4	24
TLS11	1/2	4 1/2	27
TLS12	1/2	5	28

Static Wire Supports

Designed to carry static wires. Load plate is welded to the rods, while the back plate can be adjusted to fit the pole. Hot dip galvanized. In_x0002_cludes 1/2" link for wire-clamp attachment.



Type	For Pole Diameter	Steel Size	Weight (Lbs) 100
TSWS1	8 to 10	5/8	630
TSWS2	10 to 12	5/8	646
TSWS3	12 to 14	5/8	660

Guy Wire Thimbles

Chance Guy-Wire Thimbles are primarily used with Ovaley anchor rods and bolts. Grooved to fit various strand sizes, they are made from crescent-shaped stock to prevent abrupt, strand-weakening kinks. Open end for slipping over rod or eye. Hot dip galvanized steel.



Type	Strand Size	Clearance	Weight (Lbs) 100
TSWS1	3/8	1/2 and 5/8	8.2
TSWS2	1/2	5/8 and 3/4	15.6
TSWS3	5/8	1	40

Washers



Type	Size	Hole	Bolt	Weight (Lbs) 100
Galvanized Square Curved Washers				
TWA1	4 x 4 x 1/4	15/16	7/8	120
TWA2	2 1/4 x 2 1/4 x 3/16	11/16	5/8	31
TWA3	2 1/2 x 2 1/2 x 3/16	11/16	5/8	36
TWA4	3 x 3 x 1/4	13/16	3/4	66
TWA5	3 x 3 x 1/4	7/16	3/4	62
TWA6	3 x 3 x 1/4	11/16	5/8	62
TWA7	3 1/4 x 3 1/4 x 1/4	13/16	3/4	76
TWA8	4 x 4 x 3/16	13/16	3/4	82
Square Washers				
TWB01	2 x 2 x 1/8	9/16	1/2	13
TWB02	2 x 2 x 1/8	11/16	5/8	12
TWB03	2 1/4 x 2 1/4 x 3/16	11/16	5/8	24
TWB04	2 1/4 x 2 1/4 x 3/16	13/16	3/4	23
TWB05	3 x 3 x 3/16	13/16	3/4	51
TWB06	3 x 3 x 1/4	13/16	3/4	64
TWB07	4 x 4 x 3/16	13/16	3/4	87
TWB08	4 x 4 x 1/4	7/8	3/4	120
TWB09	4 x 4 x 1/4	15/16	5/8	118
TWB10	4 x 4 x 1/2	13/16	3/4	236
TWB11	4 x 4 x 1/2	1 1/8	1	228
Round Washers				
TWC1	1 O.D. x 14 Ga.	7/16	3/8	1.64
TWC2	1 1/4 O.D. x 14 Ga.	9/16	3/8	2.84
TWC3	1 3/8 O.D. x 12 Ga.	9/16	1/2	4.50
TWC4	1 3/4 O.D. x 10 Ga.	11/16	5/8	8.50
TWC5	2 O.D. x 9 Ga.	13/16	3/4	11.80
Spring Clip Washers				
TWD1	5/32" x 1"	9/16	1/2	22
TWD2	1/4" x 13/4"	11/16	5/8	93
TWD3	1/4" x 13/4"	13/16	3/4	91
TWD4	1/4" x 13/4"	15/16	7/8	89
Spring Lock Washers				
TWE1	1/8 x 3/32	7/16	3/8	1
TWE2	11/64 x 1/8"	9/16	1/2	1.5
TWE3	13/64 x 5/32	11/16	5/8	2.4
TWE4	1/4 x 3/16	13/16	3/4	4.8
Double Coil Spring Lockwasher				
TWF1	5/32" x 1"	9/16	1/2	4
TWF2	3/16" x 13/16"	11/16	5/8	6.6
TWF3	7/32" x 13/8"	13/16	3/4	10.4
TWF4	7/64" x 3/4"	7/16	3/8	1.5



Pigtail Hook



Turnbuckle



Turnbuckle



Turnbuckle



Turnbuckle



U-Bolt



Socket Clevis



Ball Eye



Yoke Plate



Stainless Steel Banding



Stockbridge Dampers



Adjustable Nut Clamp



Crossarm Grid Gain



Messenger Hanger



Guy Hook



Pole Eye Plate



Cross Plate Anchor



Cross Plate Anchor



Horizontal Expanding Anchor



Pole Key Anchor



No Wrench Anchor



Adapter Anchor



Adapter Anchor



Dywidag Adapter



Threaded Stud Adapter



Anchor Lead



Shoulder Eye Bolt



Double End Bolt



Extension Link



Extension Bracket



Pole Dating Nail



Breaker Lock



Push Pole Brace



Point Staple



Strap Kit



Reinforcing Strap



Wall Strap



Detachable Type Step



Pole Step



Spike Type Step



Extension Ring



Y Type Ball Clevis



Guard Arm Brace



Bracket



Bracket



Bracket



Bracket



Bracket



Insulator Pin



Insulator Pin



Insulator Pin



Insulator Pin



Insulator Pin



Insulator Pin



Insulator Pin



Arrester Bracket



Cutout Bracket



Cutout Bracket



Anchor Rod Bonding



Anchor Rod Bonding



Crossovers Clamp



Crossovers Clamp



Messengers Clamp



Messengers Clamp



Drop Wire Clamp



Drop Wire Clamp



Span Clamp



Span Clamp



High Strength Shackles



Clamp Loop Dead -end



Over Line Clamp Hot Line Clamp



HorizOver Line Clamp Hot Line Clamp



Oem Hot Dip Galvanized Ball Hook



Accessories Hydraulic Strain Clamp



Steel Lighting Arm Pole Bracket



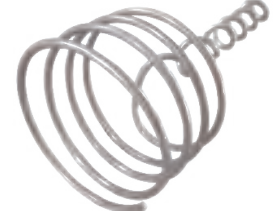
Angle Screw



Serving Sleeve



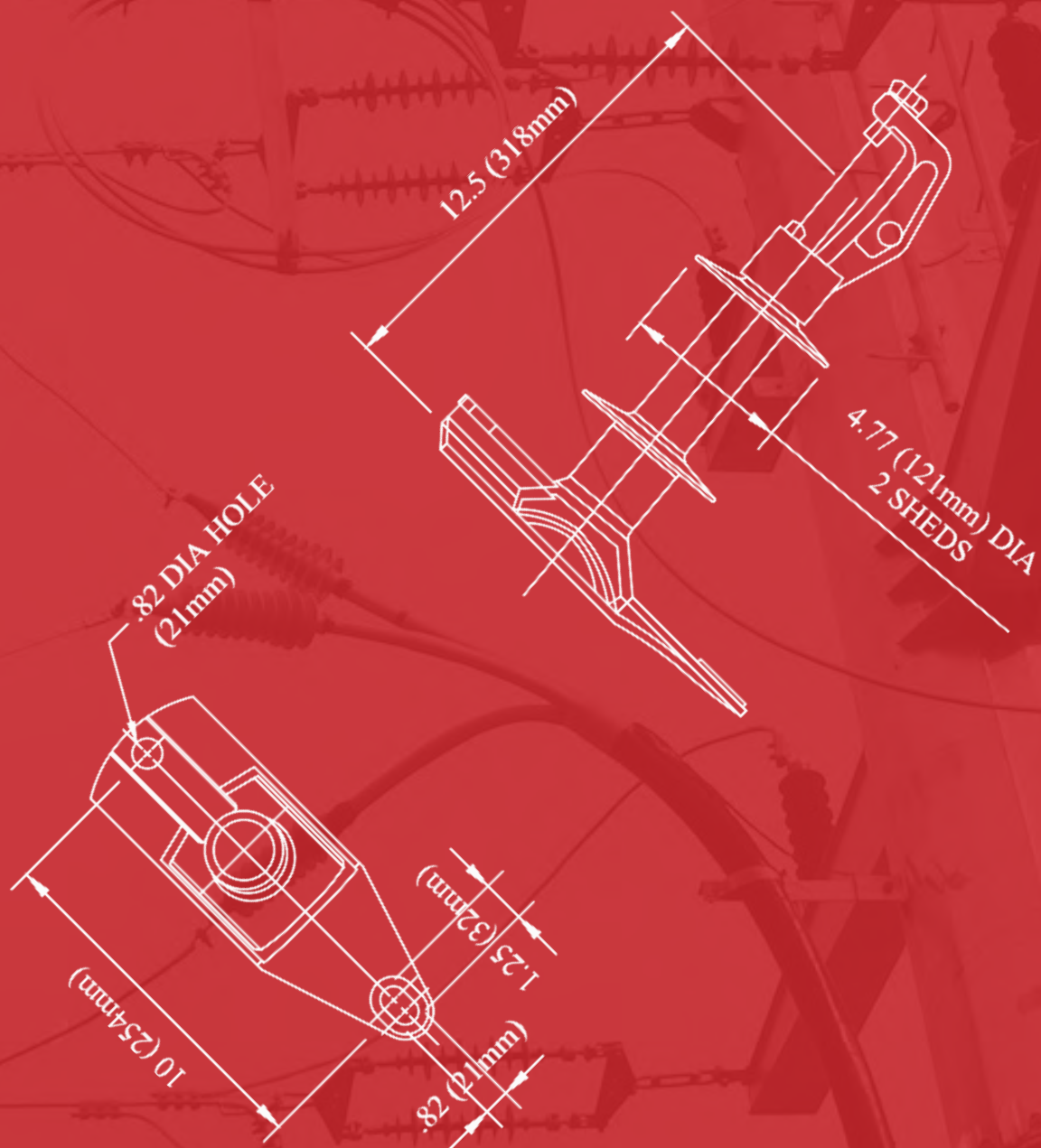
U-Shackle



Anticorona Ring



INSULATOR ARRESTER



Zno Varistor/Block

TTF zinc oxide varistor elements, developed by TTF Corporation over many years of research, are composed of a specially formulated compound of zinc oxide and small amounts of other selected metal oxides. After a series of process, these ingredients result in polycrystalline ceramic. TTF zinc oxide varistor elements are tested in accordance with the latest standard IEC 60099-4 for metal oxide arresters, and consistently maintain a stable characteristic. Accelerated life tests show that arrester losses will not increase during an arrester's service life at a maximum continuous operating voltage. Electric tests are a very critical part of zinc oxide varistor elements production. A sample is selected from each batch of varistor elements and subjected to an accelerated life test. If the test is successful each varistor element receives a two long-duration test, a discharge current test at 2.5kA, 5kA, 10kA and 20kA, and a reference voltage test to sort the elements.

Application

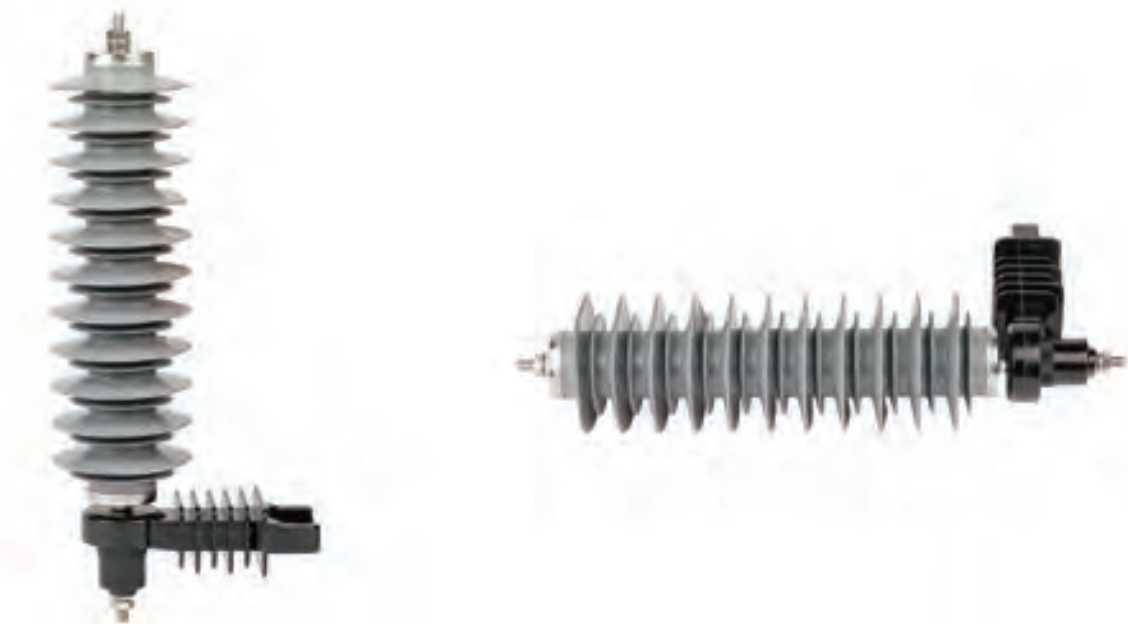
- Arrester use under oil-immersed transformer.
- GIS arrester.
- Railway arrester (DC substation use, mount on rolling stock).
- Polymeric and Porcelain surge arrester.
- Cable sheath protection arrester.
- Low voltage surge absorber.



Application for IEC Standard	Recommended UR (kV rms)	Model	Dimensions (mm)	Range of critical operating voltage V1mA-DC,kV-DC	Max. residual voltage ratio (VX kV/V1mA) (at 8/20μs)	Current withstand capability	
						4/10ms(kV)	2ms(A)
Distribution 5kA	3.0	ZV30-20-32	21±1.0	4.55-5.40	1.78	65	100
	4.5	ZV45-30-32	31±1.0	6.80-8.10	1.78	65	100
	6.0	ZV60-40-32	41±1.0	9.10-10.80	1.78	65	100
Distribution & Class1 10kA	3.0	ZV30-20-42	21±1.0	4.55-5.40	1.83	100	400
	4.5	ZV45-30-42	31±1.0	6.80-8.10	1.83	100	400
	6.0	ZV60-40-42	41±1.0	9.10-10.80	1.83	100	400
Class 3 10kA	1.5	ZV15-12-52	12±1.0	2.10-2.40	1.79	100	600
	3.0	ZV30-23-52	24±1.0	4.18-4.82	1.79	100	600
	5.0	ZV50-38-52	41±1.0	6.97-8.03	1.79	100	600
Class 4 10kA	1.5	ZV15-12-62	12±1.0	2.10-2.40	1.69	100	1000
	3.0	ZV30-23-62	24±1.0	4.18-4.82	1.69	100	1000
	6.0	ZV60-45-62	45±1.0	6.97-8.03	1.69	100	1000
Class 4 10kA	3.0	ZV30-23-75	24±1.0	4.18-4.82	1.78	100	1300

Zinc Oxide Lighting Arrester

zinc oxide arrester is the high-tech products . The overall silicon rubber molding, good sealing performance, explosion-proof performance, resistance to the filthy no-clean, and can reduce the fog, the wet flash, electrical erosion resistance aging, small size, light weight, crashworthiness, and ease of installation and maintenance. Porcelain bushing arrester replacements.



Nominal Discharge Current 5kA Metal-oxide Lightning Arrester Without Gaps

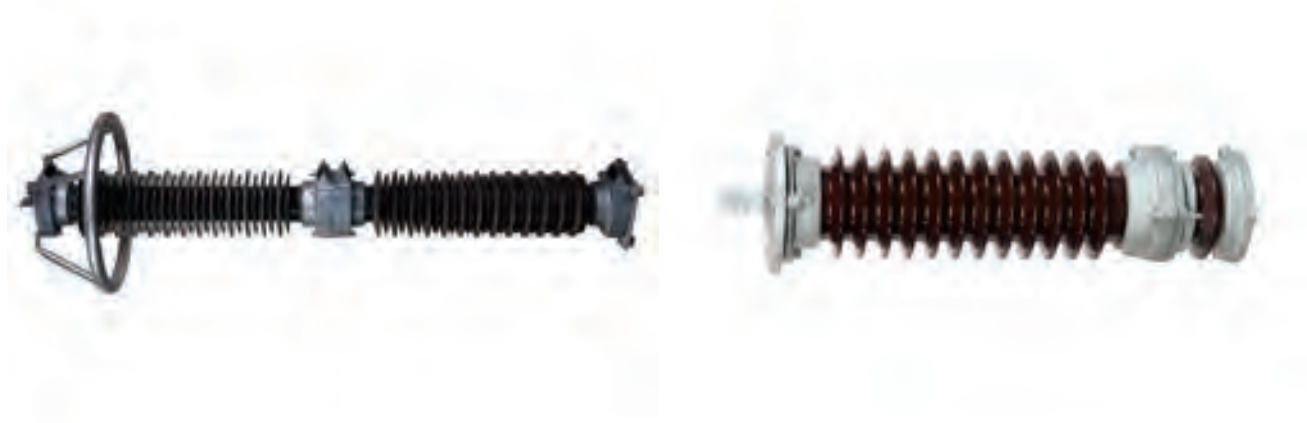
Type	Rated voltage kV (rms)	Minimum continuous operation voltage kV (rms)	Steep current impulse kV (crest)	Switching current impulse kV (crest)	Lighting current impulse kV (crest)	Square wave current impulse withstand A (crest)	High current impulse kA (crest)
YH5W-3	3	2.55	9.5	7.7	9	100	65
YH5W-6	6	5.1	19.0	15.7	18	100	65
YH5W-9	9	7.65	28.5	23.1	27	100	65
YH5W-10	10	8.3	36.0	27.0	30	100	65
YH5W-11	11	9.5	38.5	30.0	33	100	65
YH5W-12	12	10.2	38.0	30.8	36	100	65
YH5W-15	15	12.7	47.5	38.5	45	100	65
YH5W-18	18	15.3	57.0	46.2	54	100	65
YH5W-21	21	17.0	66.5	53.9	63	100	65
YH5W-24	24	19.5	76.0	61.6	72	100	65
YH5W-27	27	21.9	85.5	69.3	91	100	65
YH5W-30	30	24.4	95.0	76.5	90	100	65
YH5W-33	33	26.8	104.0	84.7	99	100	65
YH5W-36	36	29.0	114.0	92.7	108	100	65
YH5W-42	42	34.1	132.3	100.1	126	100	65

Nominal Discharge Current 5kA Metal-oxide Lightning Arrester Without Gaps

Type	Rated voltage kV (rms)	Minimum continuous operation voltage kV (rms)	Steep current impulse kV (crest)	Switching current impulse kV (crest)	Lighting current impulse kV (crest)	Square wave current impulse withstand A (crest)	High current impulse kA (crest)
YH10W-3	3	2.55	9.5	7.7	9	250	100
YH10W-6	6	5.1	19.0	15.4	18	250	100
YH10W-9	9	7.65	28.5	23.1	27	250	100
YH10W-10	10	8.3	36.0	27.0	30	250	100
YH10W-11	11	9.5	38.5	30.0	33	250	100
YH10W-12	12	10.2	38.0	30.8	36	250	100
YH10W-15	15	12.7	47.5	38.5	45	250	100
YH10W-18	18	15.3	57.0	46.2	54	250	100
YH10W-21	21	17.0	66.5	53.9	63	250	100
YH10W-24	24	19.5	76.0	61.6	72	250	100
YH10W-27	27	21.9	85.5	69.3	81	250	100
YH10W-30	30	24.4	95.0	76.5	90	250	100
YH10W-33	33	26.8	104.0	84.7	99	250	100
YH10W-36	36	29.0	114.0	92.7	108	250	100
YH10W-42	42	34.1	133.0	100.0	126	250	100
YH10W-48	48	39.0	152.0	126.0	150	400	100
YH10W-54	54	43.0	171.0	139.0	162	400	100
YH10W-60	60	48.0	208.0	160.0	180	400	100
YH10W-66	66	53.4	230.0	172.0	198	400	100

Porcelain Lighting Arrester

Porcelain Lighting Arrester adopts double sealing structure, the core encapsulates by molded silicone rubber which completely solves the sealing problem of porcelain housed products. It has a two-way pressure release structure. Its core component ZnO varistor has good pressure ratio, consistency, large flow capacity and high reliability. Creepage distance of porcelain housed products is wide which is suitable for IV level heavy pollution areas.



Nominal Discharge Current 5kA Metal-oxide Lightning Arrester Without Gaps

Type	Rated voltage kV (rms)	Minimum continuous operation voltage kV (rms)	Steep current impulse kV (crest)	Switching current impulse kV (crest)	Lighting current impulse kV (crest)	Square wave current impulse withstand A (crest)	High current impulse kA (crest)
Y5C-3	3	2.55	5.0	7.8	9	100	65
Y5C-6	6	5.1	10.0	15.5	18	100	65
Y5C-9	9	7.65	16.5	24.5	27	100	65
Y5C-10	10	8.4	18.0	27.2	30	100	65
Y5C-12	12	10.2	21.0	32.6	36	100	65
Y5C-15	15	12.7	25.0	38.8	45	100	65
Y5C-18	18	15.3	31.0	48.1	54	100	65
Y5C-21	21	17.0	34.0	52.7	63	100	65
Y5C-24	24	19.2	39.0	60.5	75	100	65
Y5C-27	27	21.9	45.0	69.8	81	100	65
Y5C-30	30	24.4	50.0	77.5	90	100	65
Y5C-33	33	26.8	55.0	85.3	99	100	65
Y5C-36	36	29.0	60.0	93.0	108	100	65
Y5C-42	42	34.1	70.0	108.5	126	100	65

Nominal Discharge Current 5kA Metal-oxide Lightning Arrester Without Gaps

Type	Rated voltage kV (rms)	Minimum continuous operation voltage kV (rms)	Steep current impulse kV (crest)	Switching current impulse kV (crest)	Lighting current impulse kV (crest)	Square wave current impulse withstand A (crest)	High current impulse kA (crest)
Y10C-3	3	2.55	5.0	7.8	9	100	65
Y10C-6	6	5.1	10.0	15.5	18	100	65
Y10C-9	9	7.65	16.5	24.5	27	100	65
Y10C-10	10	8.4	18.0	27.2	30	100	65
Y10C-12	12	10.2	21.0	32.6	36	100	65
Y10C-15	15	12.7	25.0	38.8	45	100	65
Y10C-18	18	15.3	31.0	48.1	54	100	65
Y10C-21	21	17.0	34.0	52.7	63	100	65
Y10C-24	24	19.2	39.0	60.5	75	100	65
Y10C-27	27	21.9	45.0	69.8	81	100	65
Y10C-30	30	24.4	50.0	77.5	90	100	65
Y10C-33	33	26.8	55.0	85.3	99	100	65
Y10C-36	36	29.0	60.0	93.0	108	100	65
Y10C-42	42	34.1	70.0	108.5	126	100	65

Surge Arrester Monitor & Discharge Counter

Discharge Counter is used for recording the discharge times of surge arrester in operation. Monitor is connected in series with surge arrester and operates in power system. It measures on-line real-time leakage current of surge arresters and records the monitor discharging times. It is used for all kinds of metal oxide surge arrester in the voltage of 220kV and below, the service conditions is the same with the surge arrester connected.



Surge Arrester Disconnect

Arrester disconnect is a device for disconnecting an arrester from the system in the event of arrester failure, to prevent a persistent fault on the system and to give visible indication of the failed arrester, TL-1 is a thermal explode disconnect, our products as per IEC60099-4 Standard.



Composite Insulator Fibre Glass Rod

The designation of the above end-fittings are in accordance with IEC61466-1. The ANSI classes are also available. The epoxy fiberglass guiding and pulling rod is composed of untwisted and alkali-free fiberglass yarn impregnated with epoxy adhesive. After vacuum continuous winding and solidification. The products have good electrical performance and mechanical strength, along with high-temperature and stress corrosion resistance performance.



Description	Unitg	Data
density(20±2°C)	g/cm2	≥ 2.0
water absorption	%	≤ 0.05
tensile strength	Mpa	≥ 1690
bend strength	Mpa	≥ 965
absorb test	min	≥ 50
Water Diffusion test(1%NaCl Boiled 100h,12kV,1min)	uA	≤ 50
Layl shear strength	Mpa	≥ 50
power frequency puncture voltage	kV/cm	≥ 50
impulse voltage	kV/cm	≥ 95
hot bending strength	Mpa/150°C	≥ 300
stress corrosion(1mol/1HNO3,316Mpa Stress)	h	>200

Composite Insulator

This new generation of Polymer Insulator characterized with:

- Small
- Light
- High mechanical strength
- High performance against pollution
- No need zero value detection
- Easy installation
- Less maintenance

The polymer insulator produced by our company has applied whole injection technique, the crimping of hardware fittings and glass-fiber core are employed compression technique, which is equipped with fully-automatic detection damage inspection system. The terminals of hardware fitting have four layer sealing to eliminate the key-problem influencing the reliability of composite insulator : interface brittle fracture. Therefore, advanced equipment and strict production procedure ensure our polymer insulator meet the technical requirements of IEC61952 and IEC61109.

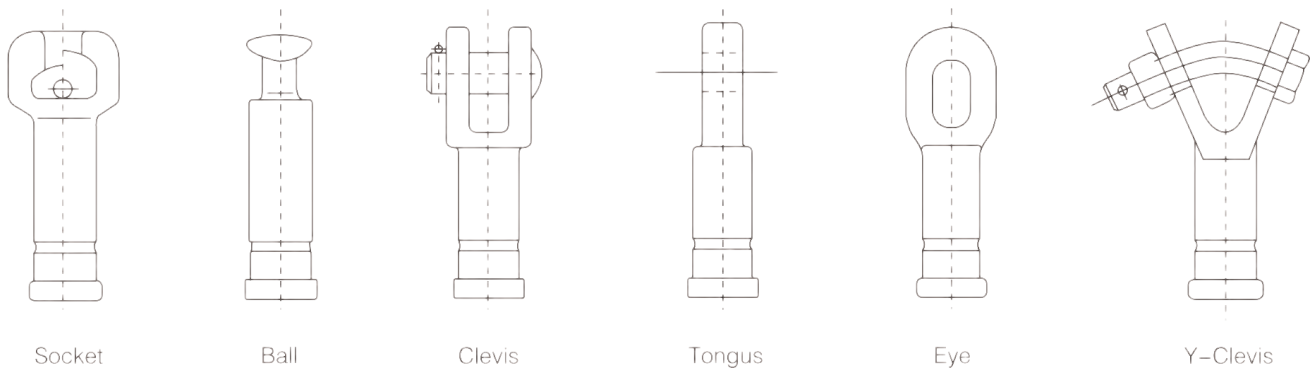
Application

1. Ambient temperature: -40°C ~ +40°C.
2. Altitude: up to 3000m.
3. Relative humidity: less than 100%.
4. Thickness of ice: no more than 10mm.
5. wind velocity: 35m/s.
6. Earthquake intensity: 8 degree.



Configuration of End-Fittings

1. The structural design of ZONRI Composite insulator consists of these basic parts:
2. CORE - is fiberglass reinforced epoxy resin rod which produced from the highest quality materials. It is the component to bear mechanical load and has minimum tension strength at 1000Mpa.
3. END FITTINGS - are made of steel with hot-dip galvanized. They are compressed directly to the rod by a special process.
4. high, long-term hydrophobicity, high aging resistance, high corona resistance and low permeability to moisture. SHEATH & WEATHERSHEDS - are produced with High Temperature Vulcanized silicone rubber compound which exhibit.
5. INTERFACES - between the fiberglass rod, rubber sheath, and rubber sheds are laid on a special adhesive that compound on the basis of silicone rubber and then vulcanized. This firmly bonds the rubber to the rod and bonds the rubber sheds to the rubber sheath so that the joint between sheds and sheath is stronger than the rubber.
6. For suspension insulator with SML on or above 120KN, the interface between the metal fittings and the sheath is fitted on an additional o-ring seal beside of the special sealant.
7. CORONA RING - is made of aluminum. The corong ring is necessary at 220KV system and above. For application at 220KV and 230KV, one corona ring should be assembled at the line end of the suspension insulator; For application at 345KV and greater, two corona rings should be assembled at both end of insulators.



Composite Suspension Insulator

This product is special for badly polluted areas, high mechanical tension load, long span and compact power line. And have features of light weight, small volume, unbreakable, anti-bend, high strength for anti-twist and strong explosion protection.

Type	Rated Voltage (kV)	Rated mechanical bending load (kN)	Structure Height	Minimum Arc Distance Li	Min. creepage Distance Lc	Diameter of shed D	Lightning impulse withstand voltage	P.F. 1min wet withstand voltage
TCSI01	11	70	350	180	420	92	95	45
TCSI02	11	80	450	280	550	148/118	125	65
TCSI03	24	70	425	230	575	98/88	125	65
TCSI04	24	100	440	270	850	130/100	125	65
TCSI05	24	120	545	320	900	115/85	145	65
TCSI06	33	70	505	330	900	92	200	95
TCSI07	33	80	720	555	1650	148/118	250	135
TCSI08	33	100	570	385	1050	11/75	200	95
TCSI09	36	120	670	430	1400	130/100	185	95
TCSI10	132	120	1240	1240	1240	-	125	65

Composite Insulator

This product is special for badly polluted areas, high mechanical tension load, long span and compact power line. And have features of light weight, small volume, unbreakable, anti-bend, high strength for anti-twist and strong explosion protection.



Type	Rated Voltage (kV)	Rated mechanical bending load (kN)	Structure Height	Minimum Arc Distance Li	Min. creepage Distance Lc	Diameter of shed D	Lightning impulse withstand voltage	P.F. 1min wet withstand voltage
TCI1	11	5	280	180	380	90	105	45
TCI2	11	10	300	165	420	140/114	105	45
TCI3	11	12.5	320	195	450	110	95	45
TCI4	15	12.5	280	160	665	130/100	145	65
TCI5	24	8	315	200	450	120/100	145	65
TCI6	24	11	476	165	610	135/105	145	65
TCI7	33	10	406	280	940	122/92	200	95
TCI8	33	12.5	425	320	1200	122/92	230	95
TCI9	36	12.5	545	405	1650	150/120	265	135

Composite Line Post Insulator

This product is special for badly polluted areas, high mechanical tension load, long span and compact power line. And have features of light weight, small volume, unbreakable, anti-bend, high strength for anti-twist and strong explosion protection.



Type	Rated Voltage (kV)	Rated mechanical bending load (kN)	Structure Height	Minimum Arc Distance Li	Min. creepage Distance Lc	Diameter of shed D	Lightning impulse withstand voltage	P.F. 1min wet withstand voltage
TCLPI1	11	10	225	135	300	100/90	95	45
TCLPI2	15	12.5	285	170	600	138/118	105	50
TCLPI3	25	12.5	450	320	700	138	125	65
TCLPI4	35	12.5	580	405	1650	150/120	265	135
TCLPI5	69	12.5	760	630	1950	215/165	350	150

Porcelain Post Insulator For High Voltage



Type	Creepage distance (mm)	Drt arcing distance (mm)	Cantilever strenght (kn)	Low frequency dry flash over (KV)	Low frequency wet flash over(KV)	Criticalimpulse flashover Positive (KV)	Critical impulse flashover Negative (KV)	Test voltage to ground (KV)	Maximum RIV at 1000 KHZ(UV)10 00KHZ	Weight (kg)
57-1S 57-1L	356	165	12.5	80	60	130	155	15	100	5.0
57-2S 57-2L	559	241	12.5	110	85	180	205	22	100	9.5
57-3S 57-3L	737	311	12.5	125	100	210	260	30	200	11
57-4S 57-4L	1015	368	12.5	150	125	255	340	44	200	16
57-5S 57-5L	1143	438	12.5	175	150	290	380	44	200	15

Porcelain Stay Insulator



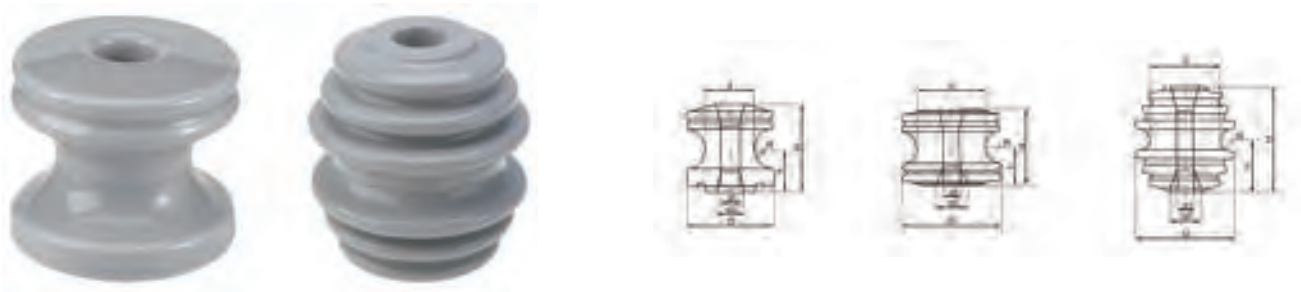
Type	H	h	h1	D	d	d1	Mechanical Failing Load (kN)	Creepage distance (mm)	Weight (kg)
54-1	88	44	64	64	44	16	44	41	0.43
54-2	108	57	76	73	54	22	53	47	0.63
54-3	140	79	103	86	60	25	89	57	1.2
54-4	171	69	114	89	60	25	89	76	2

Porcelain Shackle Insulator



Type	H	D	d	d1	d2	R	Mechanical Failing Load (kN)	Weight (kg)
ED-1	90	100	95	50	22	12	1200	0.75
ED-2	75	80	75	42	20	10	1000	0.40
ED-3	65	70	65	36	16	8	800	0.25
ED-4	50	60	55	30	16	6	500	0.15
ED-2(B)	76/3	89/3	83/3	24	21	10	1300	0.48
ED-2(B)1	76/3	89/3	83/3	24	17.5	10	1300	0.50
ED-2(C)	86/3	86/3	-	25	22	24	1350	0.47

Spool Insulator



Type	H	h	D	d	d1	D2	R	Mechanical Failing Load (kN)	Weight (kg)
53-1	54	27	57	45	18	22	11	907	0.22
53-2	76	38	79	45	18	24	18	1360	0.55
53-3	81	40.5	76	45	18	24	11	1814	0.60
53-4	76	38	105	73	18	24	16	2041	1.15
53-5	105	52.5	102	73	18	24	11	2722	1.20

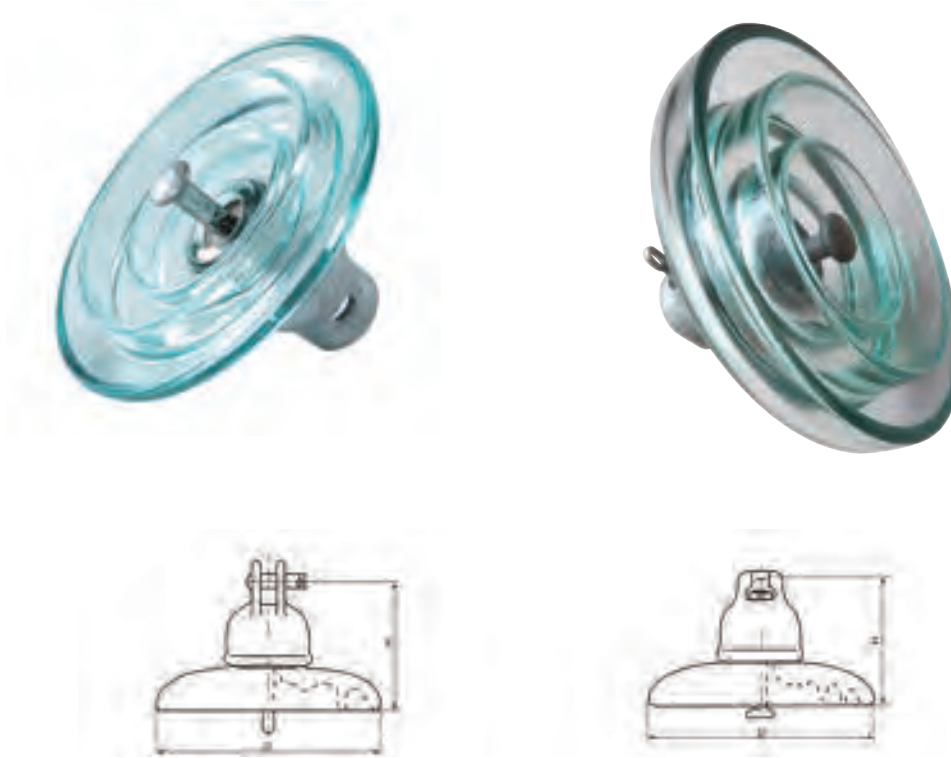
Porcelain Disc Insulator



Type		52-1	52-2	52-3	52-4	52-5	52-6	52-9	52-10	
Main dimensions	D	165	190.5	254	254	254	254	114	2794	
	H	139.7	146	145	145	145	145	160	165	
Creepage distance(mm)		178	210	292	292	279	2779	171	279	
Power-frequency puncture voltage(KV)		80	90	110	110	110	110	80	110	
Average flashover voltage	Power_x0002_frequency	Dry	60	65	80	80	80	80	60	80
		Wet	30	35	50	50	50	50	30	50
	Critical-impulse 15×40μs wave	Positive	100	115	125	125	125	125	90	125
		Negative	100	115	130	130	130	130	100	130
Radio influence voltage data	Test voltage to ground (KV)		7.5	7.5	10	10	10	10	7.5	10
	Macimum riv at 1000khz (μV)		50	50	50	50	50	50	50	50
Electromechanical failing load(kn)		44	67	67	67	111	111	44	60	
Mechanical pressure strength(n.m)		5	5.5	5.5	6	7	7	5	10	
Timeload test (kn)		27	44	44	44	67	67	27	107	

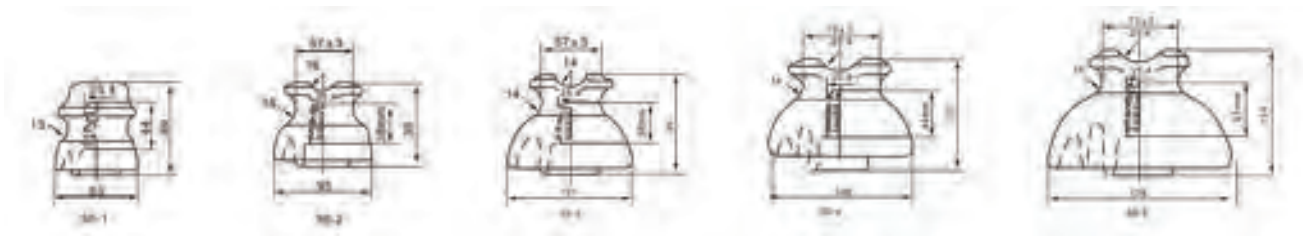
Glass Suspension Insulator

Suspension insulators are robust, high resistivity insulators, perfectly designed to withstand higher voltage loads in a variety of electrical systems operating in the full spectrum of climatic conditions.



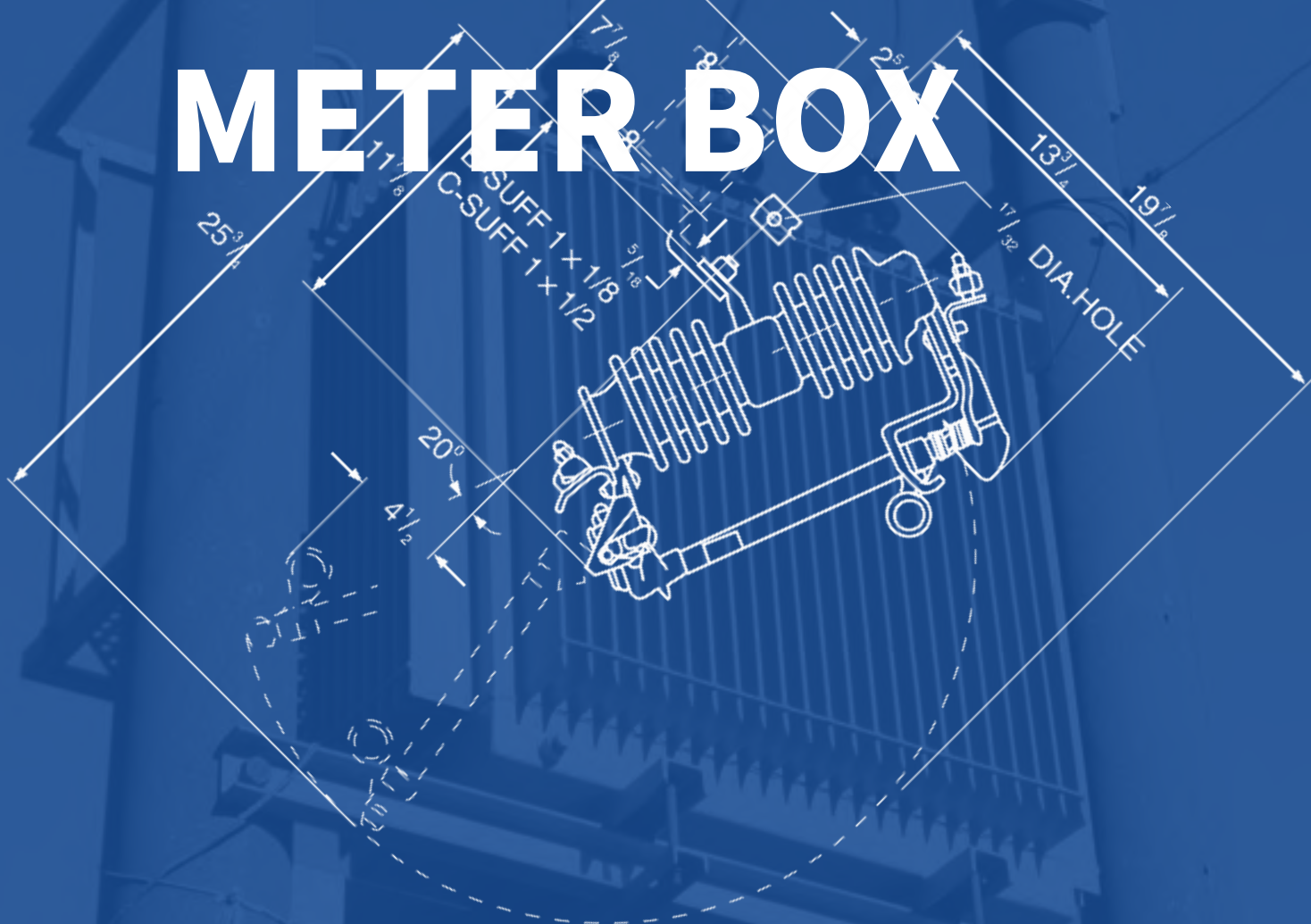
Type	Minimum mechanical failing load (kN)	Nominal diameter D(mm)	Spacing P (mm)	Nominal creepage distance (mm)	Standard coupling	Dry, lightning impulse withstand voltage(kV)	Puncture withstand voltage (kV)	weight (kg)
U40B	40	175	110	190	11	75	90	2.0
U70BS	70	255	127	320	16	100	130	3.8
U70BL	70	255	146	320	16	100	130	3.85
U100BS	100	255	127	320	16	100	130	4.1
U100BL	100	255	146	320	16	100	130	4.2
U120B	120	255	146	320	16	100	130	4.3
U160BS	160	280	146	400	20	110	130	6.3
U160BM	160	280	155	400	20	125	130	6.4
U160BL	160	280	170	400	20	110	130	6.7
U210B	210	280	170	400	20	110	130	7.0
U240B	240	280	170	400	20	110	130	7.5
U300B	300	330	195	490	24	130	130	10.7
U420B	420	380	205	550	24	140	140	14.8
U530B	530	380	240	600	32	140	140	19.2
U550B	550	380	240	600	32	140	130	19.2

Pin Insulator



Type	55-1	55-2	55-3	55-4	55-5
Creepage distance(mm)	102	127	178	229	305
Dry arcing distance(mm)	57	86	114	127	159
Cantileven strength(KN)	13	11	11	13	13
Low frequency dry flashover voltage(KV)	35	45	56	65	80
Low frequency dry flashover voltage(KV)	20	25	30	35	45
Critical impulse flashover, positive(KV)	50	70	90	105	130
Critical impulse flashover,negative(KV)	70	85	110	130	150
Power-frequency puncture voltage(KV)	50	70	90	95	115
Test voltage to ground (KV)	5	5	10	10	15
Maximum riv at 1000khz(u v)	60	50	50	50	100
Net weight each approx (kg)	0.5	0.65	1	1.55	2.75
Number in standard package	-	40	30	16	12

FUSE CUTOUT SWITCH TRANSFORMER METER BOX



Drop-out Fused Cut Out

Drop-out fused cut out and load switching fuse cutout are of outdoor used high voltage protective device. To be connected with incoming feeder of distribution transformer or distribution line it mainly protect transformer or lines from short circuit and overload, and on/off loading current.

Drop-out fuse cutout is composed of insulator supports and fuse tube, static contacts is fixed on two sides of insulator support and moving contact is installed on two ends of fuse tube. Fuse tube is composed of inside arc-extinguishing tube, outer phenolic compound paper tube or epoxy glass tube, Load switching fuse cutout provides enforced elastic auxiliary contacts and arc-extinguishing enclosure for switching on/off loading current. At normally working via fuselink tightened the fuse tube is fixed to form up of close position.

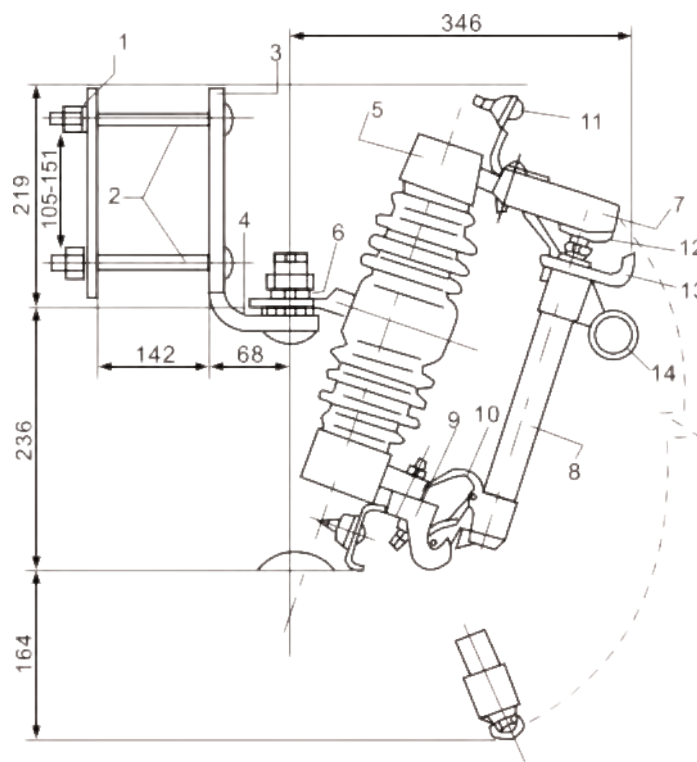
In case system occur faults, fault current result in fuse melt immediately and take place electric arc, which let arc-extinguishing tube being heated and explode a lot of gas. This will produce high pressure and blow off the arc along with tube.

After fuselink melt moving contact has no tightened strength again, mechanism is locked and fuse tube dropout. Cutout now is in open position.

When it needs to switch off during cut out loading. operator shall via insulating operating bar pull the moving contact, at its beginning main contact and auxiliary static contact is contacted still.

Whiling pulling the auxiliary contact is separated between auxiliary contacts there occur electric arc and the arc will be lengthened in arc-extinguishing enclosure gap and meanwhile arc-extinguishing explode gas to blow off the arc during current passing zero.

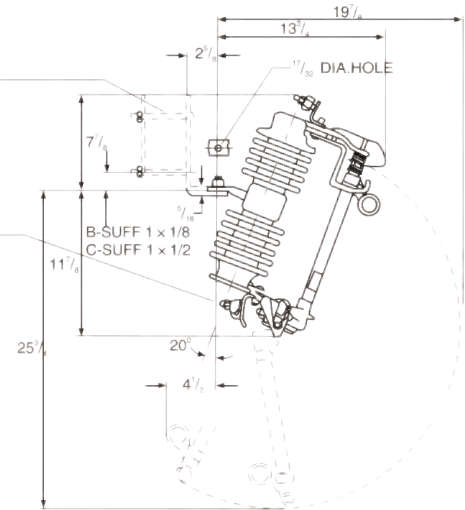
- 1.Back Plate
- 2.Long Bolts
- 3.Mounting bracket
- 4.Mounting bracker
- 5.Porcelain Insulator
- 6.Spring Washer
- 7.Upper Housing
- 8.Fuse Tube
- 9.Lower Housing
- 10.Toggle Joint
- 11.Connector
- 12.Upper Contacts
- 13.Attachment Hooks
- 14.Operation Ring



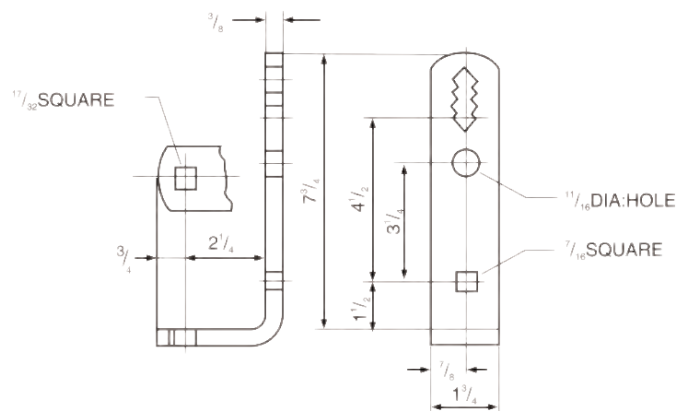
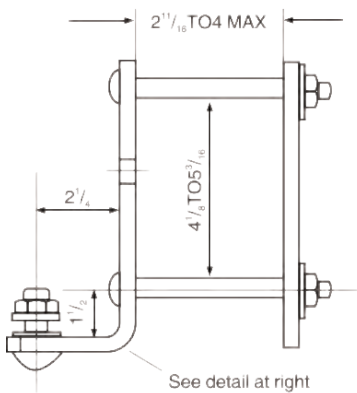
Mounting bracket. Adjustable for 3" x 4" to 4" x 5" crossarm.
 Furnished only when catalog number suffix "boris" specified.

Optional parallel groove connector shown furnished only when
 catalog number suffix , d , is specified.

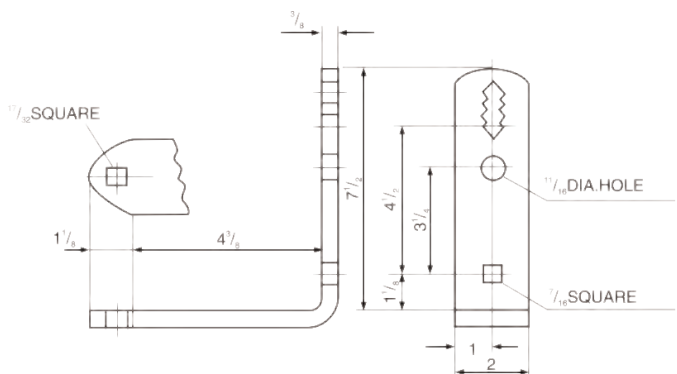
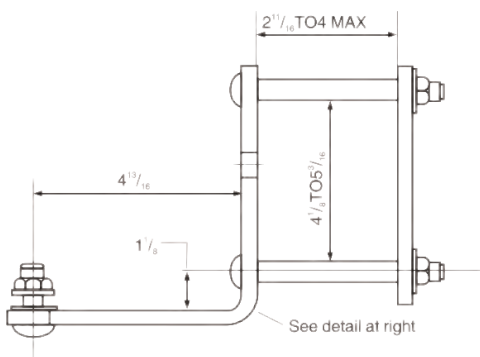
1. add connector suffix per table.
2. dimension shown is for ' c suffix (nema b'bracket).
3. dimension is 53 / 16 for ' b' suffix fuerte extended bracket. d' duffix only.



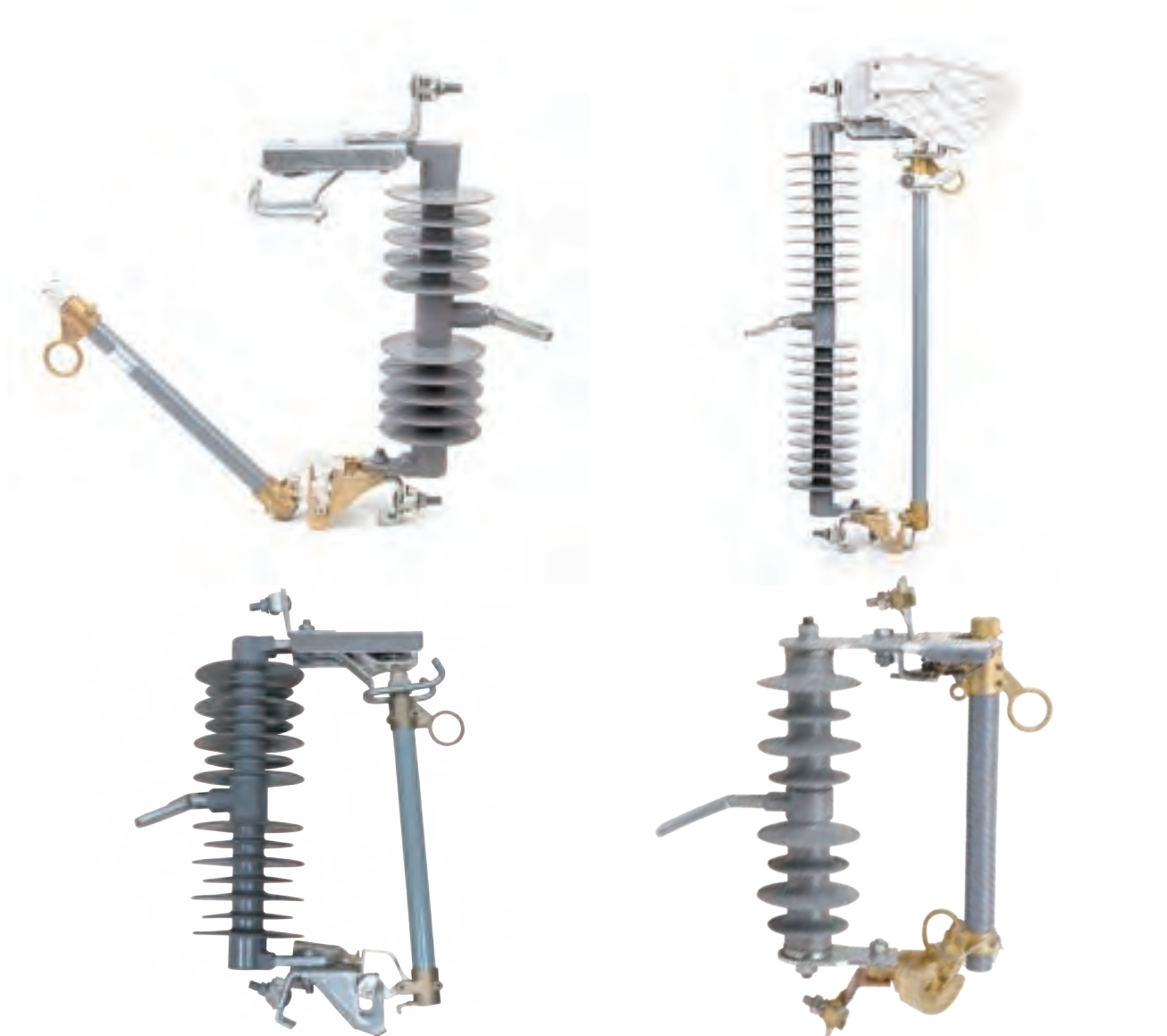
Type B Mounting Braket Adjustable for 3" x 4" to 4" x 5" Crossarm



Extended Mounting Braket Adjustable for 3" x 4" to 4" x 5" Crossarm



Rubber Series Drop-out Fused Cutout



Type	Rated Voltage (kN)	Rated Current (A)	Breaking Current (A)	Impulse Voltage Bil (A)	Power-frequency Withstand Voltage (KV)	Creepage Distance (mm)	Weight (kg)
10kV-15kV							
THRW-12A	12	100	10000	110	45	380	3.5
THRW-12B	12	200	12000	110	45	380	3.5
10kV-15kV							
THRW-24A	27	100	6000	150	65	620	4.3
THRW-24B	27	200	8000	150	65	620	4.3
33kV-36kV							
THRW-33A	33	100	6000	185	75	1100	5.8
THRW-33B	33	200	8000	185	75	1100	5.8

Porcelain Series Drop-out Fused Cutout



Type	Rated Voltage (kV)	Rated Current (A)	Breaking Current (A)	Impulse Voltage Bil (A)	Power-frequency Withstand Voltage (KV)	Creepage Distance (mm)	Weight (kg)
10kV-15kV							
TRW-12A	12	100	10000	110	40	250	7.3
TRW-12B	12	200	12000	110	40	250	7.3
15kV-27kV							
TRW-15A	15	100	10000	125	45	355	8.8
TRW-15B	15	200	12000	125	45	355	8.8
24kV-27kV							
TRW-24A	24	100	8000	150	65	505	12
TRW-24B	24	200	10000	150	65	505	12
24kV-27kV							
TRW-25A	25	100	8000	150	65	540	12
TRW-25B	25	200	10000	150	65	540	12
24kV-27kV							
TRW-27A	27	100	8000	150	65	470	13
TRW-27B	27	200	10000	150	65	470	13
33kV-36kV							
TRW-33A	33	100	6000	170	70	660	15
TRW-33B	33	200	8000	170	70	660	15
33kV-36kV							
TRW-22A	36	100	6000	170	70	720	15.5
TRW-22B	36	200	8000	170	70	720	15.5

High-voltage Fuse Series Link

The single-phase pole-mounted type distribution transformer is especially suitable for economizing energy in town and countryside. It is an ideal energy-saving product in the lighting circuits of urban and rural residential areas and for power applications.



Rubber/Porcelain Isolator Switch Silicone

Rubber/Porcelain Isolator Switch Silicone is an outdoor high-voltage air insulating disconnecting switch, that used in MV power networks for switching them on and off. And that provide support for a reliable and safe operation of networks. They are suitable for preserves with strict ecological regulations.

The Rubber/Porcelain Isolator Switch Silicone disconnectors are used to achieve a clearly visible disconnection of parts of power distribution networks, passing through a process of repairs, revisions and other works which necessitate to have the line in a non-live state.

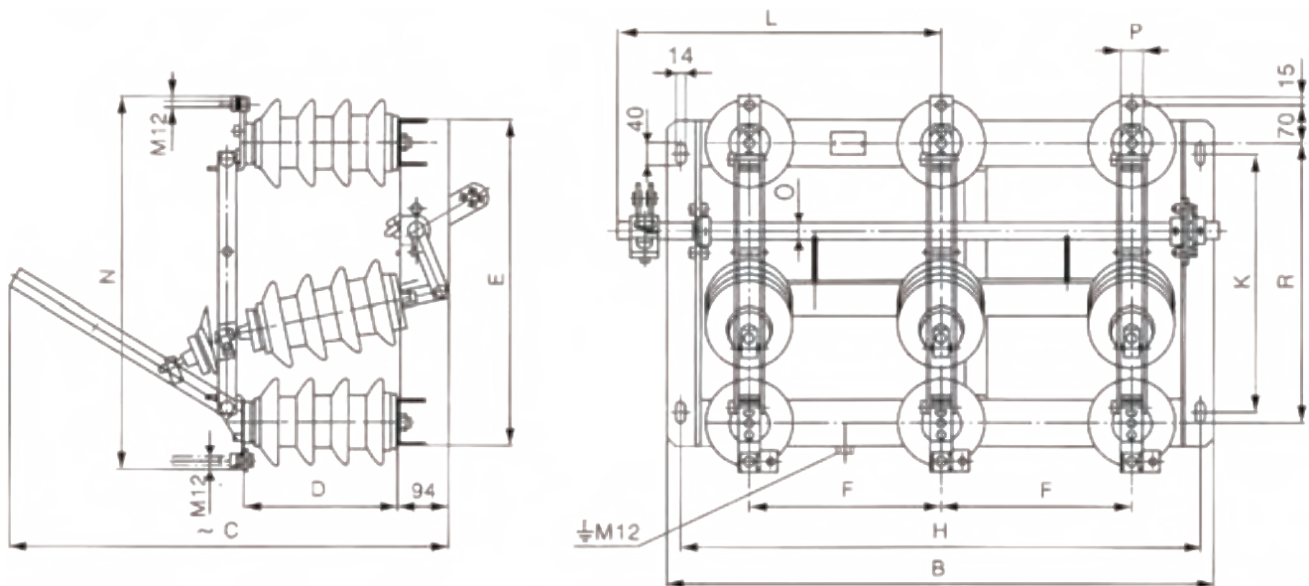


Gw1 Type Air Breaker/Isolator Switch Silicone Rubber/Porcelain

GW1 Series is an outdoor high-voltage air insulating disconnecting switch, that used in MV power networks for switching them on and off. And that provide support for a reliable and safe operation of networks. They are suitable for preserves with strict ecological regulations.

The GW1 disconnectors are used to achieve a clearly visible disconnection of parts of power distribution networks, passing through a process of repairs, revisions and other works which necessitate to have the line in a non-live state.

- Airtemperature: Maximum temperature: +50°C ; Minimum temperature:-50°C .
- Humidity: Monthly average humidity 95%; Daily average humidity 90%.
- Altitude above sea level: Maximum installation altitude: 2500m.
- Ambient air not apparently polluted by corrosive and flammable gas, vapor etc.
- No frequent violent shake.



Description	Unit	Data
density(20±2°C)	g/cm ²	≥ 2.0
water absorption	%	≤ 0.05
tensile strength	Mpa	≥ 1690
bend strength	Mpa	≥ 965
absorb test	min	≥ 50
Water Diffusion test(1%NaCl Boiled 100h,12kV,1min)	uA	≤ 50
Layl shear strength	Mpa	≥ 50
power frequency puncture voltage	kV/cm	≥ 50
impulse voltage	kV/cm	≥ 95
hot bending strength	Mpa/150°C	≥ 300
stress corrosion(1mol/1HNO ₃ ,316Mpa Stress)	h	>200

GW4 Type Disconnecting Switch Silicone Rubber/Porcelain

GW4-40.5,72.5,126(W)/630,1250,1600,2000 Distylell fracture level rotation outdoor three phase ac high voltage disconnecting switch (hereinafter called switch)is supplied to high voltage circuitry for throwover under no load condition. And is used as electric disconnect for overhauled high voltage bus, breaker and such high voltage electric device and high voltage circuitry with electricity.

GW4 III Outdoor AC high voltage disconnecting switch conforms to the following standards. Gb1984-89 "ac high voltage disconnecting switch and earthing switch" iec129(1984) "ac high voltage disconnecting switch and earthing switch' IEC 694(1980)"Shared terms for high voltage switch devices and control devices standards".

- Ambient temperature : $-40^{\circ}\text{C} \sim +40^{\circ}\text{C}$.
- Altitude: not over 3000m.
- Pollution degree: II 、III、IV.
- Thickness of icing: not over 10m.
- Wind pressure not over 700Pa.
- earhquake degree: not over 8 degree.
- The place where it is used is free from flammable and explosive danger, chemical corrosion and frequent intense vibration.



Type	GW4-40.5 III				GW4-72.5 III				GW4-126 III				
Rated voltage	40.5				72.5				126				
Rated current	630	1250	1600	2000	630	1250	1600	2000	630	1250	1600	2000	
Rated withstand current (peak value)	50	80	100	100	50	80	100	100	50	80	100	100	
Rated short time withstand current (effective value) kA	20	31.5	40	40	20	31.5	40	40	20	31.5	40	40	
Duration of rated short circuit (s)	4												
Rated withstand current (peak value)	25												
Rated short-time withstand current (effective value) kA	10												
Duration of rated short circuit (s)	4												
Rated withstand current (peak value)	100												
Rated short-time withstand current (effective value) kA	40												
Rated withstand current (peak value)	4												
Rated short-time power frequency withstand voltage (effective value)kV	To earth	95				160				230			
	Isolating distance	118				197				265			
Rated lightning impulse withstand voltage (effective value)kV	To earth	185				350				550			
	Isolating distance	215				385				630			
Rated terminal static mechanical load N	Level vertical	750				750				750			
	Level horizontal	500				500				500			
	Vertical force	500				500				500			
Switch generator conversion current (generatrix conversion voltage 100V)A	504	1000	1280	1600	504	1000	1280	1600	504	1000	1280	1600	
Mechanical endurance	3000				3000				3000				
Fracture insulation distance of disconnecting switch after switch-off (\geq mm)	400				600				1000				
To earth insulation distance of conductive part (\geq mm)	400				600				1000				
Main circuit resistance ($\leq \mu\Omega$)	200	150	95	75	220	155	100	80	245	170	110	90	
Closing and opening-simultaneity of 3 phase of main knife (\leq mm)	5				8				12				
Weight of single poles (kg)	120		150		160		190		200		240		

Vcb-40.5kv Outdoor Vacuum Circuit Breaker

- RVB-40.5N Spring mechanism, 20,000 reliable operations.
- High capacity , High performance. 2000A, 31.5kA.
- Environmental-friendly products, Non gas, Non Oil.
- Ambient temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$, the daily average temperature: 25°C ;
- Altitude: $\leq 3000\text{m}$ (in excess of the value of technical discussions with the Division I) ;
- Wind speed: 35m/s;
- Earthquake intensity: not more than 8 degrees;
- Degree of ambient air contamination level not greater than: III level;
- Daily average ambient air relative humidity $\leq 95\%$, on average $\leq 90\%$;
- Saturated vapor pressure of daily mean values $\leq 2.2 \times 10^{-3}\text{Mpa}$, on average $\leq 1.8 \times 10^{-3}\text{Mpa}$.



Name		Unit	Parameter		
Rated voltage		kV	12	24	40.5
Power frequencyWet	Wet		42	60	95
	Dry		49	65	110
Lingthning impluse withstand voltage(peak value)			75/95	125/145	185/200
Rated current		A	1250/1600/2000/2500		
Rated short circuit breaking current		kA	25/31.5		
Rated capacitor bank breaking current		A	400/600/800		
Rated short circuit breaking times		times	30		
Rated making current		kA	63/80		
Rated short circuit peak withsatnd current			25/31.5		
Rated short ciecuit withstand current			4		
Rated short time duration time		S	20000(Normal)	100000(Magnetic actuator)	
Mechanical life			20000(Normal)	20000(Frequent)	
Electrical life(Rated onload switching)			O-0.3-CO-180s-CO		
Rated operte sequence			O-0.3-CO-180s-CO		
Weight		kg	≤ 250		

Single Phase Oil Immersed Distribution Transformer

The single-phase pole-mounted type distribution transformer is especially suitable for economizing energy in town and countryside. It is an ideal energy-saving product in the lighting circuits of urban and rural residential areas and for power applications.



Rate Capacity	Voltage Ratio		HV Tapping Range	Connection Vector	Load Loss (w)	No Load Loss (w)	No Load Current (%)	Short Circuit Impedance (%)	
	HV (kV)	LV (kV)							
6-15kV									
5	6	0.22-0.24	5%,0 2x2.5%, 0	116	35	145	4.0	3.5	
10					55	260	3.5		
15					65	365	3.2		
25					90	545	3.0		
37.5					6.3	120	740		2.6
50					10	150	950		2.3
63					11	180	1135		2.1
75					15	190	1335		2.0
100					240	1650	1.9		
125					285	1950	1.8		
150					350	2255	1.7		
167					375	2445	1.6		
30-36kV									
5	30	0.22-0.24	5%,0 2x2.5%, 0	116	40	200	4.0	4.0	
10					60	360	3.5		
15					65	495	3.2		
25					85	75	3.0		
37.5					1156	995	2.6		
50					33	145	1280		2.3
63					35	165	1530		2.1
75					36	170	1735		2.0
100					215	2145	1.9		
125					255	2535	1.8		
150					315	2930	1.7		
167					335	3170	1.6		

Three Phase Oil Immersed Distribution Transformer

The three-phase oil-immersed transformer applies new type insulation structure and improves the ability of short-circuit resistance.



Rate Capacity	Voltage Ratio		HV Tapping Range	Connection Vector	Load Loss (w)	No Load Loss (w)	No Load Current (%)	Short Circuit Impedance (%)		
	HV (kV)	LV (kV)								
30-36kV										
25	30	0.4	±5%,0 ±2x2.5%,0	Dyn 11 Yyn 10	125	755	2.3	4.5-6.5		
50					210	1270	2.0			
100					290	2120	1.8			
125					340	2500	1.7			
160					360	2970	1.6			
200					430	3500	1.5			
250					510	4160	1.4			
315					33	0.415	610		5010	1.4
400					35	0.433	730		6050	1.3
500					36	860	7280		1.2	
630					1040	8280	1.1			
800					1230	9900	1.0			
1000					1440	12150	1.0			
1250					1760	14670	0.9			
1600					2120	17550	0.8			
2500					3150	23000	0.8			

Rate Capacity	Voltage Ratio		HV Tapping Range	Connection Vector	Load Loss (w)	No Load Loss (w)	No Load Current (%)	Short Circuit Impedance (%)
	HV (kV)	LV (kV)						
6-12kV								
25	6 6.3 10 11	0.4 0.415 0.433	5%,0 2x2.5%,0	Dyn 11 Yyn 10	115	550	2.3	3.5-4.5
50					170	910	2.0	
100					290	1580	1.8	
125					340	1890	1.7	
160					400	2310	1.6	
200					480	2730	1.5	
250					560	3200	1.4	
315					670	3830	1.4	
400					800	4520	1.3	
500					960	5410	1.2	
630					1200	6200	1.1	
800					1400	7500	1.0	
1000					1700	10300	1.0	
1250					1950	12000	0.9	
1600					2400	14500	0.8	
2000					2840	17200	0.5	
2500					3350	20300	0.4	
20-25kV								
25	20 22 24 25	0.4 0.415 0.433	5%,0 2x2.5%,0	Dyn 11 Yyn 10	80	600	2.3	4.5-6.0
50					130	1010	2.0	
100					200	1730	1.6	
125					240	2080	1.5	
160					290	2540	1.4	
200					340	3000	1.3	
250					400	3520	1.2	
315					480	4210	1.1	
400					570	4970	1.0	
500					680	5940	1.0	
630					810	6820	0.9	
800					980	8250	0.8	
1000					1150	11330	0.7	
1250					1380	13200	0.7	
1600					1660	15950	0.6	
2000					1950	19140	0.6	
2500					2320	22220	0.5	

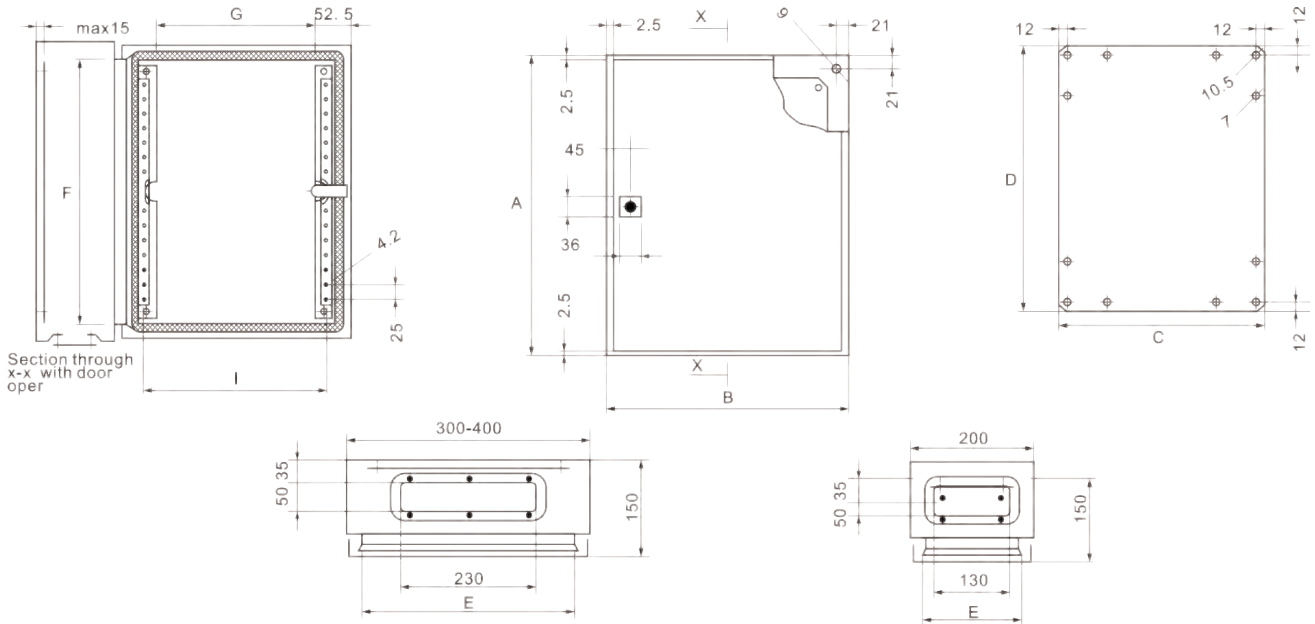


Meter Box

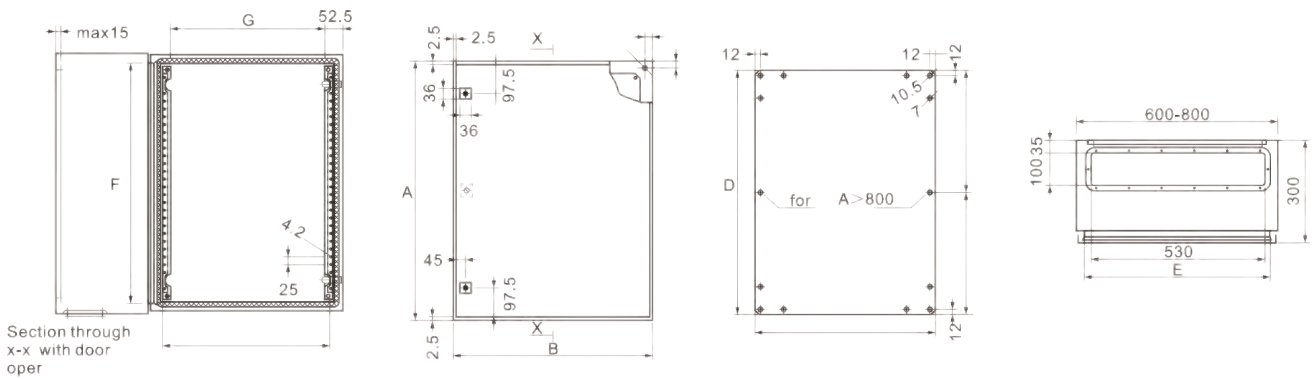
Body and door manufactured in 1.5 mm sheet steel. Flat mounting plate in 2.5mm sheet steel. DKL standard cycle thermosetting epoxy polyester powder coating. Case and door RAL 7032 textured finish. Mounting plate in RAL 2004 smooth finish.



ST Boxes 150 Deep Dimensions



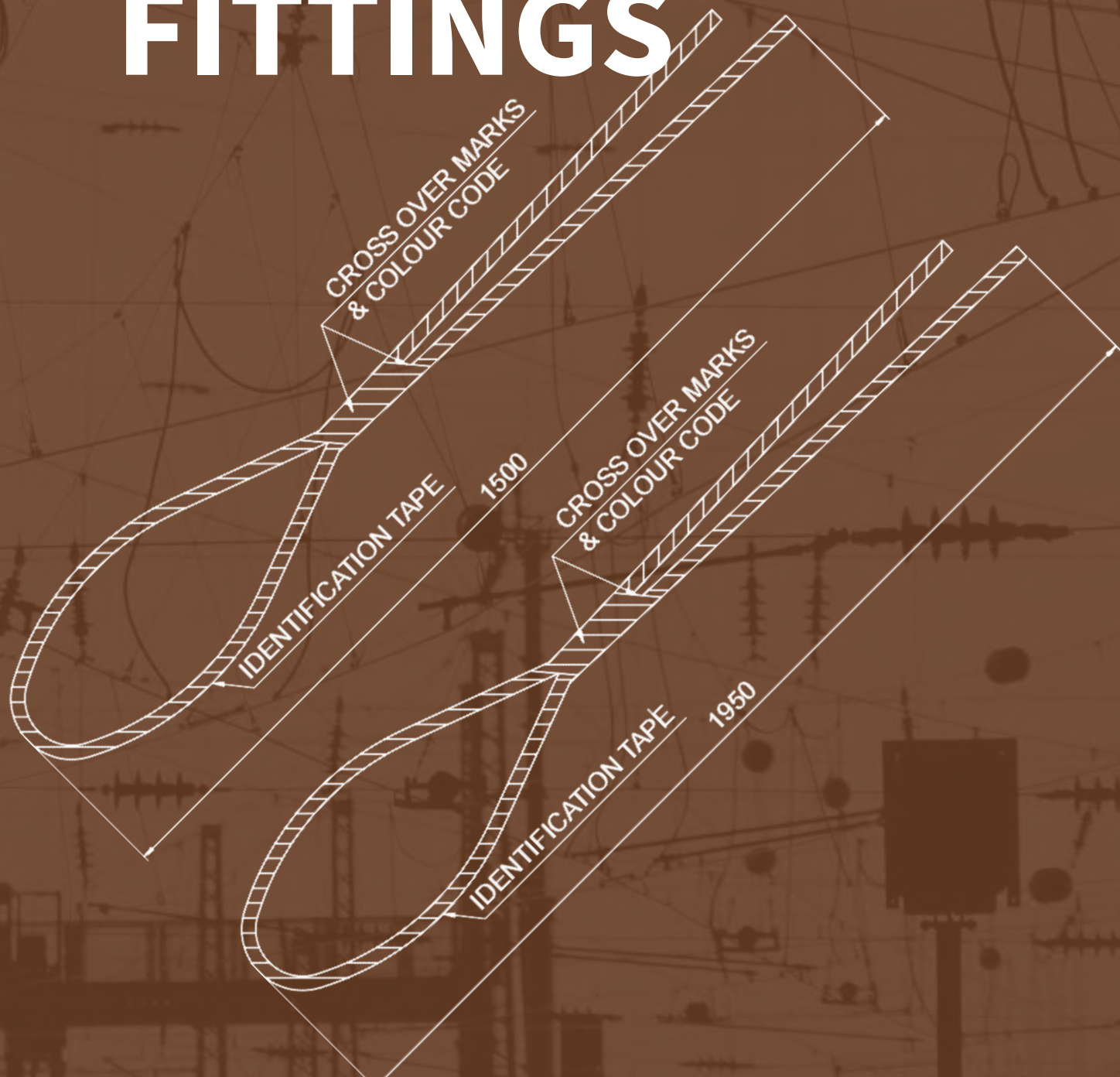
Type	ART.	A	B	C	D	E	F	G	I
ST2	315	300	200	150	250	154	254	90	-
ST3	315	300	300	250	250	254	254	190	226
ST3	415	400	300	250	350	254	354	190	226
ST3	515	500	300	250	450	254	454	190	226
ST4	315	300	400	250	250	254	254	290	326



Type	ART.	A	B	C	D	E	F	G	I
ST6	430	400	600	550	350	554	354	490	526
ST6	630	600	600	550	550	554	554	490	526
ST6	830	800	600	550	750	554	754	490	526
ST6	1030	1000	600	550	950	554	954	490	526
ST6	1230	1200	600	550	1150	554	1154	490	526
ST8	830	800	800	750	950	754	754	690	726
ST8	1030	1000	800	750	950	754	954	690	726
ST8	1230	1200	800	750	1150	754	1154	690	726



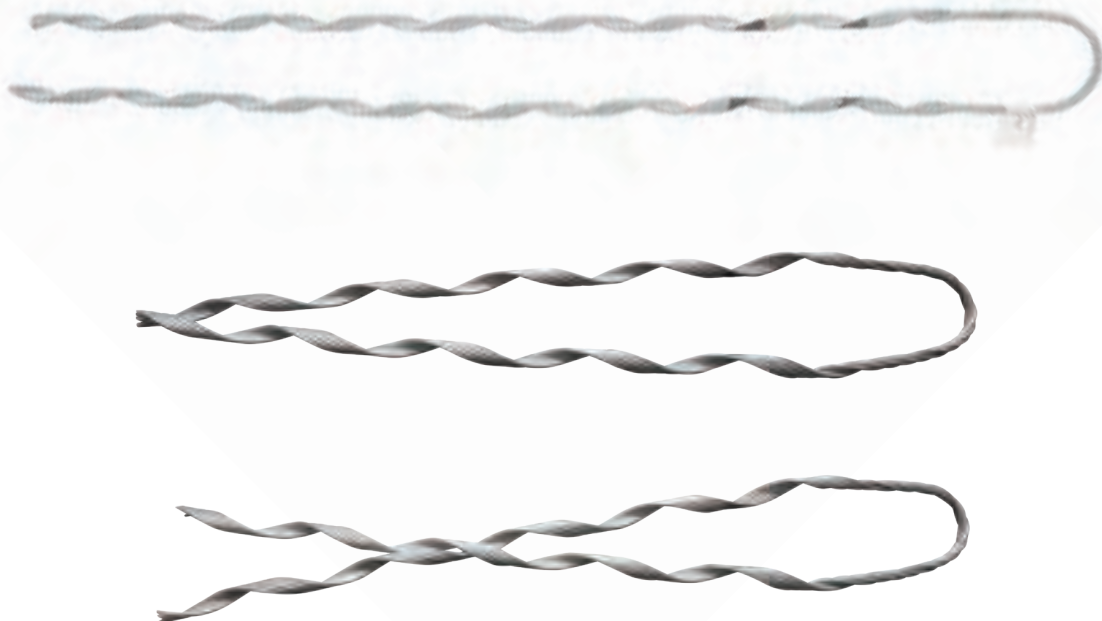
POWER LINE FITTINGS



ACSR Conductor

The overhead Dead ends have been designed as a simple and cost effective method of carrying out terminations on overhead distribution networks incorporating AAC, AAAC and ACSR Conductors. Also it has been used for 1 KV and 10KV insulated conductors. Their unique single piece design, provides uniform application pressure to the conductor, and eliminates cumbersome hardware and other components, which may be lost or damaged during installation or in service. An entire range of fittings, have been developed, to cover the smallest earth wires, right up to the largest transmission conductors. Each fitting has a specific application range, as indicated in the following tables.

- Dead ends: Aluminum covered steel or galvanized steel
- Thimble: iron hot dip galvanized
- Open looped: it was suitable for small size conductors.
- Cable looped: it was suitable for big size conductors.
- Crossover Marks: Indicate starting point for application on conductor.
- Color Code and Length: Assist in identification of conductor diameter range.
- Identification Tag: Identifies conductor type, and diameter range.



Type	Section (mm ²)	O.D (mm)	Length	Pieces
TNL-16/3	16/3	5.55	444	3
TNL-25/4	25/4	6.96	546	3
TNL-35/6	35/6	8.16	622	3
TNL-50/8	50/8	9.60	685	3
TNL-70/10	70/10	11.4	736	3
TNL-95/15	95/15	13.61	876	4
TNL-95/20	95/20	13.87	876	4
TNL-120/7	120/7	14.5	876	4
TNL-120/20	120/20	15.07	889	4
TNL-120/25	120/25	15.74	889	4
TNL-150/8	150/8	16.00	889	4
TNL-150/20	150/20	16.67	1016	5
TNL-150/25	150/25	17.10	1016	5
TNL-150/35	150/35	17.5	1016	5
TNL-185/10	185/10	18.00	1016	5
TNL-185/25	185/25	18.88	1155	6
TNL-185/30	185/30	18.90	1155	6
TNL-185/45	185/45	19.00	1155	6
TNL-210/10	210/10	19.60	1155	6
TNL-210/25	210/25	19.98	1155	6
TNL-210/35	210/35	20.38	1155	6
TNL-210/50	210/50	20.86	1155	6
TNL-240/30	240/30	21.60	1270	8
TNL-240/40	240/40	21.66	1270	8
TNL-300/15	300/15	23.04	1270	8
TNL-300/20	300/20	23.43	1270	8
TNL-300/25	300/25	23.76	1442	10
TNL-300/40	300/40	26.94	1442	10
TNL-300/50	300/50	24.26	1442	10

FYH Pre-formed Armour Rod



Type	d (mm)	Length	Weight (kg)
TFYH-70/10	3.6	1300	0.33
TFYH-95/15	3.6	1400	0.53
TFYH-95/20	3.6	1400	0.54
TFYH-95/55	3.6	1500	0.62
TFYH-120/7	3.6	1400	0.55
TFYH-120/20	3.6	1400	0.57
TFYH-120/25	3.6	1400	0.58
TFYH-120/70	4.6	1800	0.75
TFYH-150/8	3.6	1500	0.62
TFYH-150/20	3.6	1500	0.65
TFYH-150/25	3.6	1500	0.64
TFYH-150/35	3.6	1500	0.66
TFYH-185/10	4.6	1800	1.24
TFYH-185/25	4.6	1800	1.25
TFYH-185/30	4.6	1800	1.26
TFYH-185/45	4.6	1800	1.26
TFYH-210/10	4.6	1800	1.27
TFYH-210/25	4.6	1800	1.28
TFYH-210/35	4.6	1800	1.28
TFYH-210/50	4.6	1800	1.30
TFYH-240/30	4.6	1900	1.44
TFYH-240/40	4.6	1900	1.44
TFYH-240/55	4.6	1900	1.50
TFYH-300/15	6.3	2000	2.30
TFYH-300/20	6.3	2000	2.30
TFYH-300/25	6.3	2000	2.33
TFYH-300/40	6.3	2000	2.34
TFYH-300/50	6.3	2000	2.34
TFYH-300/70	6.3	2000	2.54
TFYH-400/20	6.3	2200	2.80
TFYH-400/25	6.3	2200	2.80
TFYH-400/35	6.3	2200	2.80
TFYH-400/50	6.3	2200	2.80
TFYH-400/65	6.3	2200	2.83
TFYH-400/95	6.3	2200	2.85
TFYH-500/35	6.3	2500	3.48
TFYH-500/45	6.3	2500	3.48
TFYH-500/65	6.3	2500	3.50
TFYH-630/45	7.8	2500	5.32
TFYH-630/55	7.8	2500	5.40
TFYH-630/80	7.8	2500	5.40
TFYH-720/50	7.8	3000	6.20
TFYH-800/55	7.8	2500	6.02
TFYH-800/70	7.8	2500	6.10
TFYH-800/100	7.8	2500	6.20

ADSS/OPGW Dead-end Clamp



Type	Slip strength (KN)	Suitable fiber cable's dia.Range (mm)	Inner-layer Armor Rod	Outer-laver Armor Rod
ADSS				
ADSS1	15	100	1100	800
ADSS2	15	101-200	1250	850
ADSS3	25	201-300	1600	1200
ADSS4	30	301-400	1700	1350
OPGW				
OPGW1	40	401-500	1900	1500
OPGW2	50	501-600	2200	1700
OPGW3	60	601-700	2300	1850
OPGW4	70	701-800	2600	2100
OPGW5	80	801-1000	2800	2300
OPGW6	70	9.5-17.5	2000	1600
OPGW7	100	12.5-21.0	2500	1900
OPGW8	120	13.5-21.0	2800	2000

Earth Wire / Stay Wire

- Galvanised steel wire in mild steel, medium carbon and high carbon steel are available with Eritech as individual wires & also in stranded forms. Individual wires are supplied in each coil weighing 70 to 135 kg or as prescribed by the customer.
- Stranded wire are produced as Overhead Groundwire or static wire for earthing of the electrical Power Transmission lines. Stay or Guy wire strands are produced for use with poles, towers or any other form of guying and can be used for telephone, power & CATV sets.
- Stranded wires are packed in steel drums if required by the customer, otherwise in coils wrapped and palletised for exports.
- These wires are available as per ASTM-A-475 & BS-183 specification.



Type	Construction Number of wires/wire diameter	Approximate Strand Diameter (mm)	Simens Martin Grade (KN)	High Strength Grade (KN)	Extra-high Strength Grade (KN)	Weight (kg/km)
TW01	3/2.64	5.56	10.409	15.569	21.796	131
TW02	3/3.05	6.35	13.523	21.040	29.981	174
TW03	3/3.05	6.35	-	-	-	174
TW04	3/3.30	7.14	15.035	23.398	33.362	204
TW05	3/3.68	7.94	18.193	28.246	40.479	256
TW06	3/4.19	9.25	24.732	37.187	52.489	328
TW07	7/1.04	3.18	4.048	5.916	8.140	49
TW08	7/1.32	3.97	6.539	9.519	13.078	76
TW09	7/1.57	4.76	8.452	12.677	17.748	108
TW10	7/1.65	4.76	-	-	-	118
TW11	7/1.83	5.56	11.387	17.126	24.020	145
TW12	7/2.03	6.35	14.012	21.129	29.581	181
TW13	7/2.36	7.14	18.905	28.469	39.812	243
TW14	7/2.64	7.94	23.798	35.586	49.820	305
TW15	7/2.77	7.94	-	-	-	335
TW16	7/3.05	9.52	30.915	48.040	68.503	407
TW17	7/3.68	11.11	41.591	64.499	92.523	594
TW18	7/4.19	12.70	53.823	83.627	119.657	768
TW19	7/4.78	14.29	69.837	108.981	155.688	991
TW20	7/5.26	15.88	84.961	131.667	188.605	1211
TW21	19/2.54	12.70	56.492	84.961	118.768	751
TW22	19/2.87	12.49	71.616	107.202	149.905	948
TW23	19/3.18	15.88	80.513	124.995	178.819	1184
TW24	19/3.81	19.05	116.543	181.487	259.331	1719
TW25	19/4.50	22.22	159.691	248.211	354.523	2352
TW26	19/5.08	25.40	209.066	325.610	464.839	2384
TW27	37/3.63	25.40	205.508	319.827	456.832	2061
TW28	37/4.09	28.58	262	409.457	581.827	4006
TW29	37/4.55	31.75	324.72	505.318	721.502	4833

Steel Core Aluminum Stranded Wire

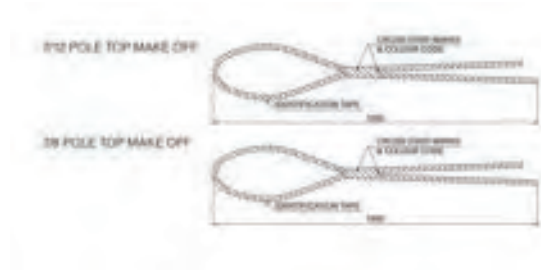
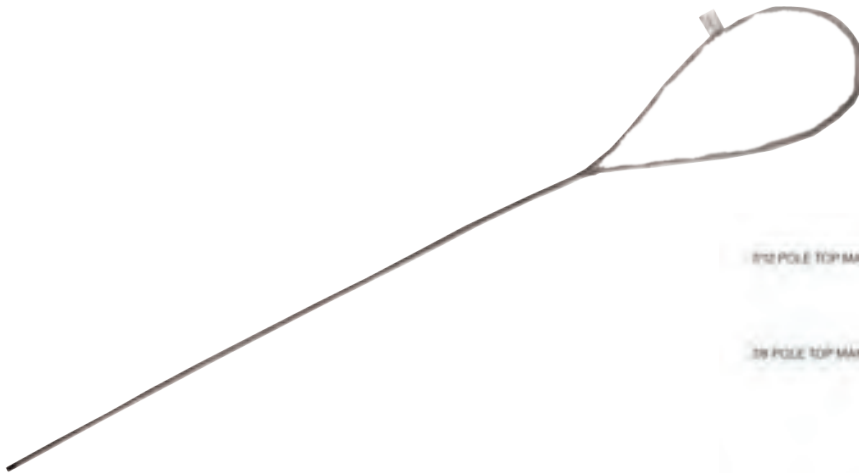
ACSR is widely used in overhead power transmission and distribution lines. Steel-cored aluminum stranded wire is formed by twisting aluminum wire and steel wire, and is suitable for overhead transmission lines. It is a steel "core" inside, and an aluminum wire is wrapped around the steel core by twisting on the outside; the steel core mainly plays the role of increasing the strength, and the aluminum stranded wire mainly plays the role of transmitting electric energy.



Nominal Area Aluminum/Steel (mm ²)	Stranding No./Dia. No./mm				Calculated Area (mm ²)			Overall Diameter (mm)	D.C. Resistance (Ω/km)	Calculated Breaking Load (N)	Calculated Weight (kg/km)	Continuous Carrying Capacity(A)		
	Aluminum		Steel		Aluminum	Steel	Total					70 °C	80 °C	90 °C
10/2	6/1.50	1.5	1/1.50	1.5	10.60	1.77	12.37	4.50	2.70600	4120	42.9	66	78	87
16/3	6/1.85	1.85	1/1.85	1.85	16.13	2.69	18.82	5.55	1.77900	6130	65.2	85	100	113
25/4	6/2.32	2.32	1/2.32	2.32	25.36	4.23	29.59	6.96	1.13100	9290	102.6	111	131	149
35/6	6/2.72	2.72	1/2.72	2.72	34.86	5.81	40.67	8.16	0.82300	12630	141.0	134	158	180
50/8	6/3.20	3.2	1/3.20	3.2	48.25	8.04	56.29	9.60	0.59460	16870	195.1	161	191	218
50/30	12/2.32	2.32	7/2.32	2.32	50.73	29.59	80.32	11.60	0.56920	42620	372.0	166	195	218
70/10	6/3.80	3.8	1/3.80	3.8	68.05	11.34	79.39	11.40	0.42170	23390	275.2	194	232	266
70/40	12/2.72	2.72	7/2.72	2.72	69.73	40.67	110.40	13.60	0.41410	58300	511.3	196	230	257
95/15	26/2.15	2.15	7/1.67	1.67	94.39	15.33	109.72	13.61	0.30580	35000	380.8	252	306	351
95/20	7/4.16	4.16	7/1.85	1.85	95.14	18.82	113.96	13.87	0.30190	37200	408.9	253	277	319
95/55	12/3.20	3.2	7/3.20	3.2	96.51	56.30	152.81	16.00	0.29920	78110	707.7	250	270	301
120/7	18/2.90	2.9	1/2.90	2.9	118.89	6.61	125.50	14.50	0.24220	27570	379.0	287	350	401
120/20	26/2.38	2.38	7/1.85	1.85	115.67	18.82	134.49	15.07	0.24960	41000	466.8	285	348	399
120/25	7/4.72	4.72	7/2.10	2.1	122.48	24.25	149.73	15.74	0.23450	47880	526.6	265	315	385
120/70	12/3.60	3.6	7/3.60	3.6	122.15	71.25	193.40	18.00	0.23640	98370	895.6	258	301	335
150/8	18/3.20	3.2	1/3.20	3.2	144.76	8.04	152.80	16.00	0.19890	32860	461.4	323	395	454
150/20	24/2.78	2.78	7/1.85	1.85	145.68	18.82	164.50	16.67	0.19800	46630	549.4	326	400	461
150/25	26/2.70	2.7	7/2.10	2.1	148.86	24.25	173.11	17.10	0.19390	54110	601.0	331	407	469
150/35	30/2.50	2.5	7/2.50	2.5	147.26	34.36	181.62	17.50	0.19620	65020	676.2	331	407	469
18/10	18/3.60	3.6	1/3.60	3.6	183.22	10.18	193.40	18.00	0.15720	40880	584.0	372	458	528
185/25	24/3.15	3.15	7/2.10	2.1	187.04	24.25	211.29	18.90	0.15420	59420	706.1	379	468	540
185/30	26/2.98	2.98	7/2.32	2.32	181.34	29.59	210.93	18.88	0.15900	64320	732.6	373	480	531
185/45	30/2.80	2.8	7/2.80	2.8	184.73	43.10	227.83	19.60	0.15640	80190	848.2	379	489	541
210/10	18/3.80	3.8	1/3.80	3.8	204.14	11.34	215.48	19.00	0.14110	45140	650.7	397	490	565
210/25	24/3.33	3.33	7/2.22	2.22	209.02	27.10	236.12	19.98	0.13800	65990	789.1	405	501	579
210/35	26/3.22	3.22	7/2.50	2.5	211.73	34.36	246.09	20.38	0.13630	74250	853.9	409	507	586
210/50	30/2.98	2.98	7/2.98	2.98	209.24	48.82	258.06	20.86	0.13810	90830	960.8	409	507	586
240/30	24/3.60	3.6	7/2.40	2.4	244.29	31.67	275.96	21.60	0.11810	75620	922.2	445	552	639
240/40	26/3.42	3.42	7/2.66	2.66	238.85	38.90	277.75	21.66	0.12090	83370	964.3	440	546	633
240/55	30/3.20	3.2	7/3.20	3.2	241.27	56.30	297.57	22.40	0.11980	102100	1108.0	445	554	641
300/15	42/3.00	3	7/1.67	1.67	296.88	15.33	312.21	23.01	0.09721	68060	939.8	495	615	711
300/20	45/2.93	2.93	7/1.95	1.95	303.42	20.91	324.33	23.43	0.09520	75650	1002.0	502	624	722
300/25	48/2.85	2.85	7/2.22	2.22	306.21	27.10	333.31	23.76	0.09433	83410	1058.0	505	628	726
300/40	24/3.99	3.99	7/2.66	2.66	300.09	38.90	338.99	23.94	0.09614	92220	1133.0	503	628	728
300/50	26/3.83	3.83	7/2.98	2.98	299.54	48.82	348.36	24.26	0.09636	103400	1210.0	504	629	730
300/70	30/3.60	3.6	7/3.60	3.6	305.36	71.25	376.61	25.20	0.09463	128000	1402.0	512	641	745
400/20	42/3.51	3.51	7/1.95	1.95	406.40	20.91	427.31	26.91	0.07104	88850	1286.0	595	746	884
400/25	45/3.33	3.33	7/2.22	2.22	391.91	27.10	419.01	26.64	0.07370	95940	1295.0	584	730	845
400/35	48/3.22	3.22	7/2.50	2.5	390.88	34.36	425.24	26.82	0.07389	103900	1349.0	583	729	844
400/50	54/3.07	3.07	7/3.07	3.07	399.73	51.82	451.55	27.63	0.07232	123400	1511.0	592	741	857
400/65	26/4.42	4.42	7/3.44	3.44	398.94	65.06	464.00	28.00	0.07236	135200	1611.0	597	752	876
400/95	30/4.16	4.16	19/2.50	2.5	407.75	93.27	501.02	29.14	0.07087	171300	1860.0	608	767	895
500/35	45/3.75	3.75	7/2.50	2.5	497.01	34.36	531.37	30.00	0.05812	119500	1642.0	670	842	977
500/45	48/3.60	3.6	7/2.80	2.8	488.58	43.10	531.68	30.00	0.05912	128100	1688.0	664	834	967
500/65	54/3.44	3.44	7/3.44	3.44	501.88	65.06	566.94	30.96	0.05760	154000	1897.0	667	850	983
630/45	45/4.2	4.2	7/2.80	2.8	623.45	43.10	666.55	33.60	0.04633	148700	2060.0	763	964	1120
630/55	48/4.12	4.12	7/3.20	3.2	639.92	56.30	696.22	34.32	0.04514	164400	2209.0	775	979	1136
630/80	54/3.87	3.87	19/2.32	2.32	635.19	80.32	715.51	34.82	0.04551	192900	2388.0	774	977	1131
720/50	45/4.53	4.53	-	-	-	-	-	36.24	0.0249	170600	2397	830	1040	1220
800/55	45/4.80	4.8	7/3.20	-	814.30	56.30	870.60	38.40	0.03547	191500	2690.0	887	1126	1310
800/70	48/4.63	4.63	7/3.60	-	808.15	71.25	879.40	38.58	0.03574	207000	2791.0	884	1121	1301
800/100	54/4.33	4.33	19/2.60	-	795.17	100.88	896.05	38.98	0.03635	241100	2991.0	878	1113	1288

Preformed Pole Top Make Off Used For Stay Wire

The products are made of high-strength steel wire and products of different specification may meet work environment with requirements of various strength. Strong corrosion resistance: After galvanization treatment, the thickness of galvanized zinc layer meets IEC standards.



Rubber Insulated Cable



Rubber Insulated Cable



Electric Wire



Bare conductor



Control Cable



Rubber Insulated Cable



Solar cable



Concentric Cable



cathodic protection cable



instrument cable



Communication Cable



ABC cable



Aluminium Lugs DL Series

Connecting terminals are suitable for the conjunction of wires, cables in the distribution equipment and the electrical equipment. Aluminum connecting terminals are pressed with aluminium bar.

Type	ϕ	D	d	L	L1	B	Weight (kg)
DL16	8.5	10	6	70	36	16	0.01
DL25	8.5	12	7	75	37	18	0.01
DL35	10.5	14	8.5	85	43	20	0.02
DL50	10.5	16	9.5	90	44	23	0.03
DL70	12.5	18	11.5	102	50	26	0.04
DL95	12.5	21	13.5	112	55	28	0.06
DL120	14.5	23	15	120	58	30	0.07
DL150	14.5	25	16.5	126	60	34	0.09
DL185	16.5	27	18.5	133	61	37	0.10
DL240	16.5	30	21	140	63	40	0.14
DL300	21	34	23	165	70	45	0.21
DL400	21	38	26.5	170	72	50	0.21
DL500	-	42	29.5	190	80	60	0.42
DL630	-	54	34	225	87	80	0.84
DL800	-	60	38	270	105	100	1.20

Copper Lugs DT Series

These products are applicable to the connection of wires in distribution equipment power supply cable with electronic apparatus, it is made of (T2) copper tube by die cast and coated tin.



Type	ϕ	D	d	L	L1	B	Weight (kg)
DT10	8.5	9	5.5	67	34	16	0.02
DT16	8.5	10	6	67	34	16	0.03
DT25	8.5	11	7	70	34	18	0.03
DT35	10.5	12	8.5	79	38	20	0.04
DT50	10.5	14	9.5	87	43	23	0.06
DT70	12.5	16	11.5	95	45	26	0.08
DT95	12.5	18	13.5	105	50	28	0.10
DT120	14.5	20	15	112	53	30	0.14
DT150	14.5	22	16.5	118	56	34	0.18
DT185	16.5	25	18.5	125	57	37	0.25
DT240	16.5	27	21	136	61	40	0.30
DT300	21	30	23	160	75	45	0.45
DT400	21	34	26	165	77	50	0.58
DT500	-	38	29	190	80	60	0.98
DT630	-	45	34	220	90	80	1.77
DT800	-	50	38	260	105	100	2.70

Aluminum Lugs AU Series

AU series Aluminum lugs used for transition connection of aluminum cable or aluminum alloy cable with aluminum end of electrical equipment in low voltage.

- Material:Al \geq 99.5%.
- Surface:tin plated.
- Oil blocking structure.
- Prefilled with jointing compound.



Type	$\phi\pm 0.5$	$d\pm 0.3$	$L\pm 2$	$L1\pm 2$
AU16	8.4	5.8	60	29
AU25	10.5	6.8	62.5	29
AU35	10.5	8	77	41
AU50	10.5	9.8	78.5	42
AU70	10.5	11.5	85	51
AU95	13	13.5	90	55
AU120	13	14.7	96	55
AU150	13	16.3	106	59
AU185	13	18.3	108	59
AU240	17	21	124	69
AU300	17	23.3	125	69

Aluminum Lugs GL Series

GL series suitable for connecting the circular wire and hemicycle wire in distribution equipment or power supply cables.

- Material: Al \geq 99.5%.
- GL1 The barrels capped are filled with joint compound to avoid oxidization.
- GL2 Oil and water stop.



Type	D \pm 0.5	d \pm 0.3	L \pm 2	L1 \pm 2
GL110	8	5	53	-
GL116	10	5.5	67	-
GL125	12	7.5	67	-
GL135	14	8.5	74	-
GL150	16	10	80	-
GL170	18.9	11.5	90	-
GL195	21	13	95	-
GL1120	23	15	99	-
GL1150	25	16.5	105	-
GL1185	27	18	110	-
GL1240	30	21	119	-
GL1300	34	22.5	131	-
GL1400	38	25.5	141	-
GL216	11	6.1	70	30
GL225	12	7.1	75	32
GL235	14	8.5	85	37
GL250	16	9.8	95	43
GL270	18	11.5	105	47
GL295	21	13.5	110	50
GL2120	23	15	115	53
GL2150	25	16.5	120	55
GL2185	27	18.5	125	57
GL2240	30	21	130	60
GL2300	34	23.5	140	65
GL2400	38	26	160	70

Aluminum Lugs BLMT Series

BLMT Mechanical aluminum lug used for connection of copper cable, aluminium cable or aluminium alloy cable with aluminium end of electrical equipment in medium voltage.

- Body: High strength aluminum alloy.
- Bolts: Brass or aluminum alloy.
- Surface: tin plated.



Type	Cross section (mm ²)	$\phi \pm 0.3$	$D \pm 0.2$	$d \pm 0.2$	$L \pm 2$	$L1 \pm 2$	Bolt
BLMT1	25-95	13,17	24	12	73	32	1
BLMT2	35-150	13,17	28	16.5	100	44	1
BLMT3	95-240	13,17,21	33	19.5	129	64	2
BLMT4	120-300	13,17	37	24	133	62	2

Aluminum Lugs BSMB Series

BSMB Mechanical aluminum lug used for intermediate connection of copper cable, aluminium cable and aluminium alloy cable in medium voltage.

- Body: High strength aluminum alloy.
- Bolts: Brass or aluminum alloy.
- Surface: tin plated.



Type	Cross section (mm ²)	AF	D	d	L	L1	Bolt
BSMB1	25-95	13	24	12.5	66	32	2
BSMB2	35-150	17	28	16.5	110	44	2
BSMB3	95-240	19	33	20	125	59	4
BSMB4	120-300	22	37	24.5	139	65	4

Aluminum Lugs GLB Series

GLB aluminum connector used for intermediate connection of aluminum cable, aluminum alloy cable in medium voltage.

- Material: Al \geq 99.5%.



Type	L (mm)	D (mm)	d (mm)
GLB16	86	10	6
GLB25	86	11	7
GLB35	86	12	8
GLB50	96	15	10
GLB70	96	17	11
GLB95	96	19	13
GLB120	133	24	15
GLB150	133	24	17
GLB185	139	25	19
GLB240	139	28	21
GLB300	200	34	24
GLB400	200	45	30
GLB500	200	55	45

Copper Lugs DTG Series

DTG series copper lugs are suitable for the connection of wires in distribution equipment power supply cable with electronic apparatus. It is made of copper tube by die cast and coated tin.

- Have a viewing window to check the location of the conductor.
- Cable area is identified clearly on the lug.



Type	$\phi\pm 0.5$	$D\pm 0.5$	$d\pm 0.5$	$L\pm 2$	$W\pm 0.5$	$S\pm 0.5$
DTG10	8	8	5.8	50	11.3	2.2
DTG16	8	9	6.5	55	12.7	2.5
DTG25	8	10	7.6	62	14.2	2.5
DTG35	10	11	8.5	66	16	2.5
DTG50	10.5	13	10	70	18.5	2.7
DTG70	12.5	16	12	80	23	4
DTG95	12.5	18	14	87	26	4
DTG120	14.5	20	15.5	96	29	4.5
DTG150	14.5	22	17.5	101	32	4.5
DTG185	16.5	24	19	113	35	5
DTG240	16.5	26	21	116	38	5
DTG300	16.5	30	24	133	43	6
DTG400	18.5	33	26	153	47.5	7
DTG500	20.5	40	31.7	170	58	8.5
DTG630	20.5	45	36	210	65	9.2

Copper Lugs SCJGK Series

Used for connection of copper cable with copper end of electrical equipment in low voltage.

There is an arc-shaped viewing window on bevel for checking the location of conductor.

- Material:Cu \geq 99.9%.
- Surface:tin plated.

Type	$\phi\pm 0.5$	$D\pm 0.5$	$d\pm 0.5$	$L\pm 2$	$L1\pm 2$	$S\pm 0.2$	$W\pm 1.5$
SCJGK6	$\phi 6.5$	6	4.8	24.5	8	1.2	9
SCJGK6	$\phi 8.5$	6	4.8	24.5	8	1.2	9
SCJGK10	$\phi 6.5$	6.7	5.7	25	10	1	11.5
SCJGK10	$\phi 8.5$	6.7	5.7	25	10	1	11.5
SCJGK16	$\phi 6.5, \phi 8.5$	8	6.4	31	11	1.6	11.8
SCJGK16	$\phi 10.5$	8	6.4	31	11	1.6	14
SCJGK25	$\phi 6.5, \phi 8.5, \phi 10.5$	9	7.2	33	13	1.8	13
SCJGK35	$\phi 6.5, \phi 8.5, \phi 10.5$	10.5	8.5	38	15.5	2	15.5
SCJGK35	$\phi 12.5$	10.5	8.5	38	15.5	2	16.5
SCJGK50	$\phi 8.5, \phi 10.5, \phi 12.5$	12.5	10.2	45	17	2.3	18.3
SCJGK70	$\phi 8.5, \phi 10.5, \phi 12.5$	14.5	11.5	48	18	3	21
SCJGK95	$\phi 8.5, \phi 10.5, \phi 12.5, \phi 14.5$	17	14	55	22	3	25
SCJGK120	$\phi 10.5, \phi 12.5$	19	15	64	22	3.5	27.5
SCJGK150	$\phi 10.5, \phi 12.5, \phi 14.5, \phi 16.5$	21	17	68	26	4	31
SCJGK185	$\phi 12.5, \phi 14.5, \phi 16.5$	23	19	75	28	4	33.5
SCJGK240	$\phi 12.5, \phi 14.5, \phi 16.5$	26	21	89	32	5	38
SCJGK300	$\phi 16.5$	30	24	99	37	6	44
SCJGK400	$\phi 16.5$	31.9	25.7	110	41	6	47
SCJGK500	$\phi 20.5$	38	30	116	42	8	55
SCJGK630	$\phi 20.5$	45	36.3	135	53.5	8.6	65

Copper Lugs SCJGY Series

Used for connection of copper cable with copper end of electrical equipment in low voltage.

There is an arc-shaped viewing window on bevel for checking the location of conductor.

- Material:Cu \geq 99.9%.
- Surface:tin plated.



Type	$\phi\pm 0.5$	$D\pm 0.5$	$d\pm 0.5$	$L\pm 2$
SCJGY6	$\phi 5.2, \phi 6.2, \phi 8.2$	5.5	4.1	24
SCJGY10	$\phi 6.2, \phi 8.2$	6.5	5.1	28
SCJGY16	$\phi 6.2, \phi 8.2, \phi 10.5$	8	6.4	33
SCJGY25	$\phi 6.2, \phi 8.2, \phi 10.5$	9	7	36
SCJGY35	$\phi 6.2, \phi 8.2, \phi 10.5, \phi 12.5$	10.5	8.5	42
SCJGY50	$\phi 8.2, \phi 10.5, \phi 12.5$	12	9.8	49
SCJGY70	$\phi 8.2, \phi 10.5, \phi 12.5$	14.5	11.9	55
SCJGY95	$\phi 10.5, \phi 12.5$	16	13	60
SCJGY120	$\phi 12.5, \phi 16.5$	19	15.4	67
SCJGY150	$\phi 12.5, \phi 16.5$	20.5	16.7	73
SCJGY185	$\phi 16.5$	23.5	19.3	78
SCJGY240	$\phi 16.5$	26	21.1	92
SCJGY300	$\phi 16.5, \phi 20.5$	30	24	102
SCJGY400	$\phi 16.5, \phi 20.5$	34	27.6	113
SCJGY500	$\phi 16.5, \phi 20.5$	38	31.6	123
SCJGY630	$\phi 20.5$	45	37.6	145

Copper Lugs SCJGA Series

Used for connection of copper cable with copper end of electrical equipment in low voltage.

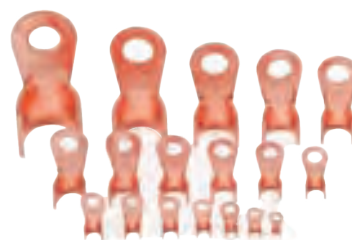
- Material:Cu \geq 99.9%.
- Surface:tin plated.



Type	$\phi \pm 0.5$	$D \pm 0.5$	$d \pm 0.5$	$L \pm 2$
SCJGA6	$\phi 6.5, \phi 8.5$	6	4.8	24.5
SCJGA10	$\phi 6.5, \phi 8.5$	8	5.8	39
SCJGA16	$\phi 6.5, \phi 8.5, \phi 10.5$	9	6.5	42
SCJGA25	$\phi 6.5, \phi 8.5, \phi 10.5$	10	7.6	47
SCJGA35	$\phi 6.5, \phi 8.5, \phi 10.5$	11	8.5	52
SCJGA35	$\phi 12.5$	11	8.8	52
SCJGA50	$\phi 8.5, \phi 10.5, \phi 12.5$	13	10	54
SCJGA70	$\phi 8.5, \phi 10.5, \phi 12.5$	16	12	62
SCJGA95	$\phi 8.5, \phi 10.5, \phi 12.5, \phi 14.5$	18	14	64
SCJGA120	$\phi 10.5, \phi 12.5$	19	15	72
SCJGA150	$\phi 10.5, \phi 12.5, \phi 14.5, \phi 16.5$	21	16.8	68
SCJGA185	$\phi 12.5, \phi 14.5, \phi 16.5$	24	18.8	86
SCJGA240	$\phi 12.5, \phi 14.5, \phi 16.5$	26	21	91
SCJGA300	$\phi 16.5$	30	24	99
SCJGA400	$\phi 16.5$	31.9	25.7	110
SCJGA500	$\phi 20.5$	38	30	116
SCJGA630	$\phi 20.5$	45	36.3	135

Copper Lugs OT Series

Suitable for the connection of copper conductors in distribution equipment.



Type	ϕ	$\phi 1$	L	L1	H	S
OT5	8.3	5	16.3	5.2	4.3	0.5
OT10	9.3	5.2	19.3	5.8	6.4	0.7
OT20	11.4	6.2	23	6.8	7.1	0.65
OT30	11.7	6.3	24.5	8.3	8.2	0.9
OT40	13	6.5	26.2	8.7	8.3	1
OT50	13.5	6.3	29	9	8.6	1.1
OT60	14.5	8.2	30.2	9.9	9	1.2
OT80	15.8	8.5	32.7	10.5	10.5	1.3
OT100	17.3	8.3	37	11.2	11.8	1.4
OT150	17.8	10.5	39.3	11.7	13.4	1.5
OT200	20.4	10.5	42.8	13.5	14.8	1.7
OT250	21.4	10.5	47.4	15	15.6	1.8
OT300	22.8	12.5	49	15.7	17.3	1.9
OT400	25.2	14.5	54.2	17.3	17.3	2.1
OT500	28	14.5	60.5	19.6	18.5	2.3
OT600	30	16.5	65	22	21	2.5
OT800	34	18.5	75	26.5	27.3	2.9
OT1000	40	18.5	85	32.5	35.5	3.4

Copper Lugs GT Series

Suitable for the connecting the circular wire and hemicycle-sector wire in distribution equipment of power supply cables. Keeps wire strands together and prevents strands from being severely damaged.

· Material:CU \geq 99.9%.



Type	D \pm 0.5	d \pm 0.3	L \pm 2
GT10	8	6	51
GT16	9	7	56
GT25	10.5	8.2	68
GT35	11	8.6	64
GT50	12.5	10	70
GT70	16	13	78
GT95	18	14.8	87
GT120	19	15.2	92
GT150	22	17.5	97
GT185	24	19	100
GT240	26	21	110
GT300	30	24	12
GT400	32	26	139

Copper Lugs GTY Series

GTY cable link used for intermediate connection of copper cables in low voltage.

· Material:CU \geq 99.9%.

· Surface:tin plated.



Type	D \pm 0.5	d \pm 0.3	L \pm 2
GTY1.5	3.7	1.8	20
GTY2.5	4	2.5	20
GTY4	4.8	3.1	20
GTY6	5.5	3.8	25
GTY10	6.5	5.4	25
GTY16	7.5	6.1	35
GTY25	9	7.5	40
GTY35	10.5	8.9	44
GTY50	12.5	10.5	45
GTY70	14.5	11.9	50
GTY95	17	13.9	60
GTY120	19.5	16	65
GTY150	20.5	17	70
GTY185	24	19.5	75
GTY240	25	20.5	79
GTY300	30	25.4	85
GTY400	34	28.6	90
GTY500	38	32	100
GTY630	45	35	110

Copper Lugs AUS Series

Used for connection of copper cable with copper end of electrical equipment in low voltage.

Clear markings on barrel to indicate correct crimping location, together with DIN standard crimping die.

- Material: Cu \geq 99.9%.
- Surface: tin plated.



Type	$\phi \pm 0.5$	D \pm 0.5	d \pm 0.5	L \pm 2	C1 \pm 0.5	C2 \pm 0.5	W \pm 1.5
AUS10	$\phi 6.5, \phi 8.5$	6.5	5	29	8	8	9.5
AUS16	$\phi 6.5, \phi 8.5$	8	6	36.5	10	10	11.5
AUS25	$\phi 6.5, \phi 8.5, \phi 10.5$	10.5	8	36.5	12	12	15.3
AUS35	$\phi 8.5, \phi 10.5$	12.5	9.5	41.5	13	13	18
AUS50	$\phi 8.5, \phi 10.5, \phi 12.5$	14.5	11	54	15	15	20.5
AUS70	$\phi 8.5, \phi 10.5, \phi 12.5$	16.5	13	57	15	15	24
AUS95	$\phi 10.5, \phi 12.5, \phi 14.5$	19	14.5	63	15	15	27.5
AUS120	$\phi 10.5, \phi 12.5, \phi 14.5$	20.5	16	68	16	16	30
AUS150	$\phi 10.5, \phi 12.5, \phi 14.5$	23.5	18	79	16	16	34
AUS185	$\phi 10.5, \phi 12.5, \phi 14.5$	26	20.5	82	17	17	38
AUS240	$\phi 10.5, \phi 14.5$	28	22.5	90	21	21	41
AUS300	$\phi 16.5$	30	23.5	99	21	21	43

Copper Lugs CCT Series



Crimp clamp CCT, designed to be gripped in the jaws or dies of installation tool, and then slipped directly over line for easy installation, also used for deadending.

- Made of pure electrolytic copper.
- High withstand to corrosion in or above the ground.
- High capacity to flow fault-currents.
- Available for copper conductors.

Type	Conductor(mm ²)	A	H	L	B	C
CCT16	14.5-16	12	7.4	13	1.7	7.5
CCT20	16.5-20	13	9.7	13	1.8	7
CCT26	21-26	14.7	10.6	16	2.3	7
CCT44	27-44	18.5	14	19	3.7	8.8
CCT60	45-60	21	14.8	20	4	10.8
CCT76	61-76	24.5	18	21	5.3	12
CCT98	77-98	28	18.8	23	5.2	14
CCT122	99-122	30	21	26	5.5	14
CCT154	123-154	34	24	28	6.5	18.5
CCT190	155-190	36.5	24.5	34	5.4	17.2
CCT240	191-240	40	28	38	6.7	19.5
CCT288	141-288	44	31	44	7	22.8
CCT365	289-365	47	33.5	48	6.5	24
CCT450	366-450	57	41	60	10	28
CCT560	451-560	62	45	62	11	31.5
CCT700	561-700	68	50	67	12	34.5



Bimetal Lugs DTL1 Series

Used for transition connection of aluminum cable or aluminum alloy cable with copper end of electrical equipment in low voltage.

- Material: Al ≥ 99.5%, Cu ≥ 99.9%.

Type	$\phi\pm 0.3$	$D\pm 0.2$	$d\pm 0.2$	$L\pm 2$	$L1\pm 2$	$W\pm 0.2$	$S\pm 0.2$
DTL110	10.5	9.2	5.2	66.2	30	16	2.2
DTL116	10.5	10.6	6.2	66.2	30.4	16	2.2
DTL125	10.5	12.4	8	74	35	17.5	2.6
DTL135	10.5	13.6	8	80	37	20	3
DTL150	13	16	10	90.2	44	23	3.4
DTL170	13	18	12	98.4	45	27	3.8
DTL195	13	21	13.8	106.4	49.4	28	4
DTL1120	13	22.4	14.8	114	53.8	30	4.8
DTL1150	13	25	17	126	56	34	5
DTL1185	13	27	19	133.2	59.6	37	5.6
DTL1240	13	29.2	20.8	140	63	40	6
DTL1300	13	33.2	23.2	162	69	50	7
DTL1400	17	38.4	26.8	166	76	50	7.1
DTL1500	17	40.4	28.8	185	75	54.8	7.9
DTL1630	17	54.6	33	201	81	59.6	9

Bimetal Lugs DTL2 Series

Used for transition connection of aluminum cable or aluminum alloy cable with copper end of electrical equipment in low voltage.

· Material: Al \geq 99.5%, Cu \geq 99.9%.



Type	$\phi\pm 0.3$	$D\pm 0.2$	$d\pm 0.2$	$L\pm 2$	$L1\pm 2$	$W\pm 0.2$
DTL210	13	16	5.2	80	44	20
DTL216	13	16	6.5	80	44	20
DTL225	13	16	7.5	80	44	20
DTL235	13	16	9	80	44	20
DTL250	13	20	10	90	44	24
DTL270	13	20	11	90	44	24
DTL295	13	20	12.5	90	44	24
DTL2120	13	25	15	118.5	60	30
DTL2150	13	25	15.5	118.5	60	30
DTL2185	13	32	18.5	120	60	35
DTL2240	13	32	20.5	125	60	35
DTL2300	13	34	22.5	132	72	36
DTL2400	17	40	27	141	72	36
DTL2500	17	40	29.5	141	72	36
DTL2630	17	47	34	185	100	45



Bimetal Lugs DTL5 Series

Used for transition connection of aluminum cable or aluminum alloy cable with copper end of electrical equipment in low voltage.

· Material:Al \geq 99.5%,CU \geq 99.9%.

Type	$\phi\pm 0.3$	D ± 0.2	d ± 0.2	L ± 2	L1 ± 2	W ± 0.2
DTL516	10.5	16	5.5	80	44	20
DTL525	10.5	16	7	80	44	20
DTL535	10.5	16	8	80	44	20
DTL550	13	20	9	92.5	43	25
DTL570	13	20	11	92.5	43	25
DTL595	13	20	12.5	92.5	43	25
DTL5120	13	25	14	111	59	30
DTL5150	13	25	15.5	111	59	30
DTL5185	17	32	18.5	121	60	35
DTL5240	17	32	19.5	121	60	35
DTL5300	13	34	23.5	155	92	35
DTL5400	17	40	26	155	93	35
DTL5500	17	40	29.5	160	93	37



Bimetal Lugs DTL2S Series

Used for connection of copper cable with copper end of electrical equipment in low voltage.

There is an arc-shaped viewing window on bevel for checking the location of conductor.

· Material:Cu \geq 99.9%.

Type	$\phi\pm 0.3$	$D\pm 0.2$	$d\pm 0.2$	$L\pm 2$	$L1\pm 2$	$W\pm 0.2$
DTL2S10	8.5	16	4.8	85.5	43	14
DTL2S16	8.5	16	5.5	85.5	43	14
DTL2S25	8.5	16	7	85.5	43	14
DTL2S35	8.5	16	8.8	85.5	43	14
DTL2S50	10.5	20	9.5	102	50	17.5
DTL2S70	10.5	20	11	102	50	17.5
DTL2S95	10.5	20	12.8	102	50	17.5
DTL2S120	13	25	14.8	123	60	21.5
DTL2S150	13	25	15.8	123	60	21.5
DTL2S185	13	32	18.2	131	62	26
DTL2S240	13	32	20.1	131	62	26
DTL2S300	13	34	22.8	150	67	32

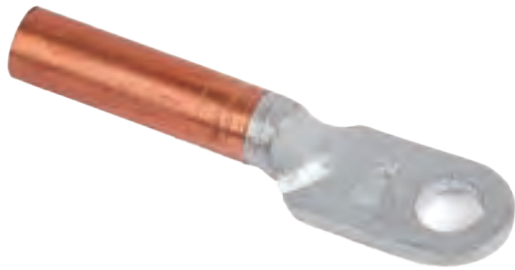
Bimetal Lugs DTL3 Series

Suitable for screwing non-tension aluminum connections.

· Material: Al \geq 99.5%, Cu \geq 99.9%.



Type	$D\pm 0.2$	$d\pm 0.2$	$\phi\pm 0.3$	$C1\pm 1$	$L\pm 2$	$W\pm 0.2$
DTL335	14	8.5	10.5	14.9	82	25
DTL350	16	10	10.5	14.5	87	27
DTL370	18	11.5	13	17.2	102	32
DTL395	21	13.5	13	19.6	106	35
DTL3120	23	15	13	16.5	112	35
DTL3150	25	16.5	13	18.9	125	35
DTL3185	28	18.5	13	22	133	42
DTL3240	32	21	17	26.2	140	46
DTL3300	34	23.5	17	26	155	50
DTL3400	38	26.5	17	30	170	58



Bimetal Lugs DLT Series

Suitable for the connection of the wires in contribution equipment and power supply cables with electronic apparatus.

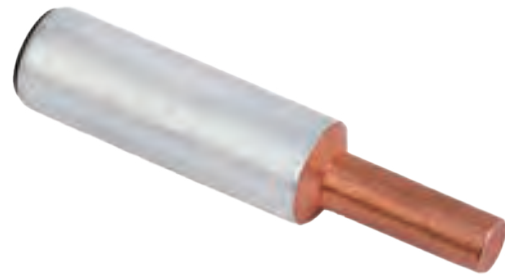
· Material:Al \geq 99.5%,CU \geq 99.9%.

Type	$\phi\pm 0.3$	$D\pm 0.2$	$d\pm 0.2$	$L\pm 2$
DLT10	8.5	9	5.2	66
DLT16	8.5	10	6.1	70
DLT25	8.5	11	7.1	76
DLT35	10.5	12	8.5	83
DLT50	10.5	14	9.8	90
DLT70	12.5	16	11.5	102
DLT95	12.5	18	13.5	112
DLT120	14.5	20	15	120
DLT150	14.5	22	17	126
DLT185	16.5	25	18.6	134
DLT240	16.5	27	21.5	140
DLT300	21	31	24	160
DLT400	21	34	27	178
DLT500	21	38	30	200

Bimetal Lugs GTLZ Series

Suitable for screwing non-tension Al connections in Cu clamps.

- Material:Al \geq 99.5%,CU \geq 99.9%.
- Aluminum barrel is filled by neutral grease and covered by cap.
- Pre-rounded sector shaped conductors.



Type	$d1\pm 0.2$	$D\pm 0.2$	$d2\pm 0.2$	$L1\pm 1$	$L\pm 2$
GTLZ16	6.3	12	6	20	58
GTLZ25	7.1	12	6	20	58
GTLZ35	8.5	14	7	22	71
GTLZ50	10	16	8	25	74
GTLZ70	11.5	18	10	30	87
GTLZ95	13.5	22	12	33	91
GTLZ120	15	23	12	38	98
GTLZ150	18.5	25	12	38	108
GTLZ185	19	27	14	40	118
GTLZ240	21	32	16	40	128

Bimetal Lugs GTL Series

Used for intermediate transition connection of aluminum cable or aluminum alloy cable with copper cable in medium voltage.

· Material:Al \geq 99.5%,CU \geq 99.9%.



Type	D1 \pm 0.2	d1 \pm 0.2	D2 \pm 0.2	d2 \pm 0.2	L1 \pm 2	L2 \pm 2	L \pm 2
GTL-16	9	5.7	10	6.5	25	33	70
GTL-25	10	6.5	12	7.2	28	37	75
GTL-35	11	7.5	14	8.5	29	40	85
GTL-50	12	8.5	16	10.2	34	42	89
GTL-70	14	10	18	11.5	36	46	98
GTL-95	16	11.5	21	13.5	35	54	105
GTL-120	18	13.5	23	15	39	56	109
GTL-150	20	15	25	16.5	43	55	115
GTL-185	22	16.5	27	18.5	45	58	125
GTL-240	24	18.5	30	21	48	61	130
GTL-300	27	21	34	23.5	53	70	145
GTL-400	30	23.5	38	26.5	59	73	155
GTL-500	34	26.5	44	29	64	78	160

Bimetal Lugs OTD Series

Suitable for the connection of the wires in contribution equipment and power supply cables with electronic apparatus.

· Material:Al \geq 99.5%,CU \geq 99.9%.



Bimetal Lugs OTD Series

Type	D±0.5	d±0.3
OTD25	11	7
OTD35	13	9
OTD50	14	10
OTD70	16	12
OTD95	18	13
OTD120	21	15
OTD150	22	16
OTD185	25	18
OTD240	28	20
OTD300	31	23
OTD400	34	26
OTD500	38	29.5

Pre-insulated Lugs MJPT Series

MJPT pre-insulated connectors are designed for LV-ABC systems with neutral messenger. MJPT is used on phase conductor.

- Material: Al ≥ 99.5%.
- Insulation sheath is made of weather and UV resistant material.
- Clear marking on insulation sheath to indicate crimping die, crimping sequence and times, cross-section of conductor and stripping length.
- Elastomeric caps and pre-filled silicone grease ensure superior waterproof.
- Stripping of cable insulation is required before insertion.
- Tested by dielectrical voltage of 6kV for 1minute under water.
- Standard: EN 50483-4, NF C33-021.



Type	Crosssection(mm ²)	A	B	C
MJPT16	16	16	16	20
MJPT25	25	25	16	20
MJPT35	35	35	20	20
MJPT50	50	50	20	20
MJPT50-25	50-25	50	25	20
MJPT50-35	50-35	50	35	20
MJPT54	54	54	20	20
MJPT70	70	70	20	20
MJPT70-35	70-35	70	50	20
MJPT70-50	70-50	70	95	20
MJPT95	95	95	95	20
MJPT95-35	95-35	95	35	20
MJPT95-50	95-50	95	50	20
MJPT95-70	95-70	95	70	20
MJPT120	120	120	120	20

Pre-insulated Lugs CPTAU Series

CPTAU pre-insulated bimetal lugs are used to establish connection between low voltage aerial cable and electrical equipments.

- Material: barrel:Al \geq 99.5% palm:Cu \geq 99.9%.
- Insulation sheath is made of weather and UV resistant material.
- Clear marking on insulation sheath to indicate crimping die, crimping sequence and times, cross-section of conductor and stripping length.
- Elastomeric caps and pre-filled silicone grease ensure superior waterproof.
- Stripping of cable insulation is required before insertion.
- Standard:EN 50483-4,NF C33-021.



Type	ϕ	C	B	L
CPTAU16-10	10.5	16	22	74.5
CPTAU25-12	13	16	22	74.5
CPTAU35-12	13	22	26	99.5
CPTAU50-12	13	22	26	99.5
CPTAU54.6-12	13	22	26	99.5
CPTAU70-12	13	22	26	99.5
CPTAU95-12	13	22	26	99.5
CPTAU120-12	13	25/28	30	118
CPTAU150-12	13	25/28	30	118

Aluminum PG Clamp APG Series

The forged aluminium clamps was for aluminium to aluminium connection throughout the conductor range. The clamps have serrated transverse grooves for maximum conductor contact.

- Select high strength, corrosion-resistant, aluminum 99.5%.
- Teeth-shape structure, touch with lowly resistance, reliable splicing.
- All parts connected with each other, it will not easy lose parts during installation.
- An are embrace the most part, create better electric contact.



Type	Conductor Cross-section(mm ²)	Bolt
APG10840	AL16-70	1*M8*40
APG10845	AL25-150	1*M8*45
APG20635	AL6-35	2*M6*35
APG20845	AL16-70	2*M8*45
APG20850	AL25-150	2*M8*50
APG21060	AL25-240	2*M10*60
APG21070	AL35-300	2*M10*70
APG30845	AL16-70	3*M8*45
APG30850	AL25-150	3*M8*50
APG31060	AL25-240	3*M10*60
APG31070	AL35-300	3*M10*70

Aluminum PG Clamp ALPG Series

The extrude aluminium clamps is suitable for connection of AL conductors of AL conductors was according to DIN 48201&ACSR conductors according to DIN 48204.

- Select high strength, corrosion-resistant, aluminum 99.5%.
- Overtorque breaking shear head allowing a good clamping torque. This system ensures a high quality contact and avoids to damage the conductors strands. After head is sheared, removal is still possible.



Type	Conductor Cross-section(mm ²)	Bolt
ALPG21065	AL16-120	2*M10*65
ALPG21075	AL50-240	2*M10*75

Aluminum PG Clamp JBL Series

JBL series specific forms parallel groove clamp is suitable for unendure force splicing and branch on the aerial wire. It has the function of protection and insulation when it matches insulating sheath.

- Select oxidize-resistance aluminium alloy.
- Teeth-shape structure, touch with lowly resistance, reliable splicing.



Type	Conductor Cross-section(mm ²)	Bolt
JBL20850	AL16-70	2*M8*50
JBL21055	AL16-120	2*M10*55
JBL21070	AL50-240	2*M10*70
JBL31055	AL16-120	3*M10*55
JBL31070	AL50-240	3*M10*70

Aluminum PG Clamp JB Series

JB series main and tap conductor for aluminum, aluminum alloy conductor.

- Body is made of high corrosion resistant aluminium alloy.
- Overtorque breaking shear head allowing a good clamping torque.



Type	Conductor Cross-section(mm ²)	Bolt
JB21045	AL16-25	2*M10*45
JB21245	AL35-50	2*M12*45
JB31245	AL70-95	3*M12*45
JB31665	AL120-150	3*M16*65
JB31670	AL185-240	3*M16*70

Aluminum PG Clamp H Series

H Clamp is suitable for branching identical cross-sections and no need to split the main conductor. It was used for wide range conductor, Connector can be gripped in tool and slipped over line for easier installation.

- Tap grooves function independently of each other. Use of one tap is required. Balance may be used of left empty.



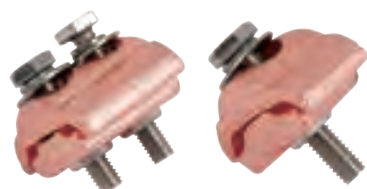
Type	Hole 1 (mm ²)	D1 (mm)	Hole 2 (mm ²)	D2 (mm)	A (mm)	B (mm)	C (mm)	H (mm)	L (mm)
ACHS1	16-35	4.8-8.2	16-35	4.8-8.2	7.1	24.3	41	15	38
ACHS2	50-95	8.3-14.5	16-50	4.8-9.5	13	36.6	60	22.5	48
ACHS3	95-95	10.0-14.5	50-95	10.0-14.5	5.4	36.4	63	22.3	64
ACHS4	95-240	13.0-22.5	16-70	4.8-11.5	14.3	50.5	80.4	30	51
ACHS5	95-240	13.0-22.5	70-150	11.6-16.0	9.4	50	83.5	32	51
ACHS6	150-240	16.2-22.5	150-240	16.2-22.5	5.1	50.5	90.6	30.3	89

Copper PG Clamp CUPG Series

CUPG clamp was designed to connect two parallel bare conductors.

Conductors can be copper stranded or rods. Material is forged copper for copper to copper connection throughout the conductor range. For tap-off connection of copper conductors.

- The clamps have serrated transverse grooves for maximum conductor contact.
- Stainless bolts and utilize Belleville washers to prevent thermal ratcheting under cyclic loads.



Type	Conductor Cross-section (mm ²)	Bolt
CUPG10840	CU16-70	1*M8*40
CUPG10845	CU25-150	1*M8*45
CUPG20635	CU6-35	2*M6*35
CUPG20845	CU16-70	2*M8*45
CUPG20850	CU25-150	2*M8*50
CUPG21060	CU25-240	2*M10*60
CUPG21070	CU35-300	2*M10*70
CUPG30845	CU16-70	3*M8*45
CUPG30850	CU25-150	3*M8*50
CUPG31060	CU25-240	3*M10*60
CUPG31070	CU35-300	3*M10*70

Copper PG Clamp JBT-Y Series

JBT-Y series non conventional type parallel groove clamp is applicable for the unendurable force splicing and branching of aerial line, it has the function of protection and insulation when it matches insulating sheath.

- Select oxidize-resistance cooper alloy.
- Teeth-shape structure, touch with lowly resistance, reliable splicing.



Type	Conductor Cross-section(mm ²)	Bolt
JBT-Y21055	CU16-120	2*M10*55
JBT-Y21070	CU50-240	2*M10*70

Copper PG Clamp JBT Series

JBT series main and tap conductor for copper, copper alloy conductor.

- Body is made of high corrosion resistant copper alloy.
- Overtorque breaking shear head allowing a good clamping torque.



Type	Conductor Cross-section(mm ²)	Bolt
JBT21045	CU16-25	2*M10*45
JBT21245	CU35-50	2*M12*45
JBT31245	CU70-95	3*M12*45
JBT31665	CU120-150	3*M16*65
JBT31670	CU185-240	3*M16*70

Bimetal PG Clamp CAPG Series

CAPG bimetallic parallel groove clamp is suitable for connection of AL conductors & ACSR conductors with copper tap-off conductors .

- Select corrosion-resistance aluminum 99.5% with hot forged bimetallic sheet.
- Teeth-shape structure,touch with lowly resistance,reliable splicing.



Type	Conductor Cross-section(mm ²)	Bolt
CAPG10840	CU6-50,AL16-70	1*M8*40
CAPG10845	CU10-95,AL25-150	1*M8*45
CAPG20845	CU6-50,AL16-70	2*M8*45
CAPG20850	CU10-95,AL25-150	2*M8*50
CAPG21060	CU25-200,AL25-240	2*M10*60
CAPG21070	CU35-240,AL35-300	2*M10*70
CAPG30845	CU6-50,AL16-70	3*M8*45
CAPG30850	CU10-95,AL25-150	3*M8*50
CAPG31060	CU25-200,AL25-240	3*M10*60
CAPG31070	CU35-240,AL35-300	3*M10*70

Bimetal PG Clamp JBTL Series

JBTL bimetallic parallel groove clamp is suitable for connection of AL conductors & ACSR conductors with copper tap-off conductors.

- Body is made of high corrosion resistant copper alloy and aluminium alloy.
- Overtorque breaking shear head allowing a good clamping torque.



Type	Conductor Cross-section(mm ²)	Bolt
JB21045	16-25	2*M10*45
JB21245	35-50	2*M12*45
JB31245	70-95	3*M12*45
JB31665	120-150	3*M16*65
JB31670	185-240	3*M16*70

Bimetal PG Clamp JBTL-Y Series

JBTL-Y series non conventional type parallel groove clamp is applicable for the unendurable force splicing and branching of aerial line, it has the function of protection and insulation when it matches insulating sheath.

- Select oxidize-resistance cooper alloy and aluminum alloy.
- Teeth-shape structure, touch with lowly resistance, reliable splicing.



Type	Conductor Cross-section(mm ²)	Bolt
JBTL-Y20850	16-70	2*M8*50
JBTL-Y21055	16-120	2*M10*55
JBTL-Y21070	50-240	2*M10*70

Bimetal PG Clamp JBTL-Q Series

JBTL-Q series non conventional type parallel groove clamp is applicable for the unendurable force splicing and branching of aerial line, it has the function of protection and insulation when it matches insulating sheath.

- Select oxidize-resistance cooper alloy and aluminum alloy.
- Teeth-shape structure, touch with lowly resistance, reliable splicing.



Type	Conductor Cross-section(mm ²)	Bolt
JBTL-Q20850	16-70	2*M8*50
JBTL-Q21055	16-120	2*M10*55
JBTL-Q21070	50-240	2*M10*70

Bimetal PG Clamp SLPG Series

SLPG series bimetallic parallel groove clamp is suitable for connection of AL conductors & ACSR conductors with copper tap-off conductors. It's applicable for small wire connect.

- Small conductor range suit for connect small wire.
- Teeth-shape structure, touch with lowly resistance, reliable splicing.

Bimetal PG Clamp SLPG Series



Type	Conductor Cross-section(mm ²)	Bolt
SLPG1	CU1.5-10,AL16-70	1
SLPG2	CU1.5-10,AL16-85	2

Bolt Clamp TJ Series

TJ clamp suitable for the sequence and transportation of all kinds of conductor in electric netting.

- Split-bolt has free-running threads and easy to grip wrench flats.
- It was highly resistant to cracking and corrosion.
- Hex head design for maximum tool ease of use.



Type	Conductor Size (mm ²)	H	L	M	S
TJ1	16	5	27	10.8	12
TJ2	25	7	27	13	14
TJ3	35	9.8	34.5	17	18
TJ4	50-70	12.8	42	22	24
TJ5	95-120	14	44.5	23.7	26
TJ6	150-185	18	55	28	30
TJ7	240	19	57	30	32

Bolt Clamp WCJC Series

WCJC suitable for transition connection of the electric appliance with wire and cable in indoor distribution equipment.

- The surface is nickel plated.
- WCJC Brass Jointing Clamp range is from 16 sqmm to 500 sqmm.



Type	Conductor Size (mm ²)	L	A	B	Φ
WCJC1	16-25	37	15	20	7.5
WCJC2	25.35	48	22	23	11
WCJC3	50-95	60	22	31	11
WCJC4	120.-150	73	31	35	15
WCJC5	210.25	90	38	46	17
WCJC6	300	115	56	-	21
WCJC7	400-500	125	62	-	23

Piercing Connector JJC Series

JJC insulation piercing connectors are applicable for all types of LV-ABC conductors as well as connections in service line system, building electrical system and street lighting system. Installation of JJC can be easily done by tightening bolts to force teeth penetrate insulation of main line and tap line simultaneously. Stripping of insulation is avoided for both lines.

- Insulation material made of weather resistant glass fiber reinforced polymer.



Type	Main line section (mm ²)	Branch section (m m ²)	Normal current(A)	Dimensions (m m)	Piercing Depth(mm)	Bolts	Weight (g)
JJC01	0.75-6	0.75-6	41	21*27*23	1-1.5	1	10
JJC02	1.5-25	1.5-10	55	27*41*62	1.5-2	1	55
JJC03	16-95	1.5-10	55	27*41*62	1-2	1	55
JJC04	6-50	4-25	157	42*45*62	2.5-3.5	1	110
JJC05	16-95	4-35 (50)	157	46*52*87	2.5-3.5	1	160
JJC06	50-150	6-35(50)	157	46*52*87	2.5-3.5	1	162
JJC07	25-95	25-95	214	50*61*100	3-4	1	198
JJC08	16-120	16-120	214	50*61*100	3-4	1	198
JJC09	(35) 50-150	(35) 50-150	316	50*61*100	3-4	1	280
JJC10	120-240	25-120	276	52*68*100	3-4	1	360
JJC11	150-240	10-25	102	52*68*100	3-4	1	336
JJC12	95-400	35-300	425	5-6	5-6	2	1050

Piercing Connector 10kV JJC Series

Applicable to branch connection and succession of 10kV overhead insulated lead.



Type	Main line section (mm ²)	Branch section (mm ²)	Norminal current(A)	Piercing Depth(mm)	Bolts
SJ1095/70	25-95	16-70	226	4.5-6	2
SJ10185/50	95-185	16-50	180	4.5-6	2
SJ10240/150	95-240	50-150	366	4.5-6	2
SJ10240/240	95-240	95-240	530	4.5-6	2

Piercing Connector JBC Series

JBC insulation piercing connectors are applicable for all types of LV-ABC conductors as well as connections in service line system, building electrical system and street lighting system. Installation of JBC can be easily done by tightening bolts to force teeth penetrate insulation of main line and tap line simultaneously. Stripping of insulation is avoided for both lines.

- Insulation material made of weather resistant glass fiber reinforced polymer.
- Contact teeth made of tinned brass or copper or aluminum.



Type	Main line section (mm ²)	Branch section (mm ²)	Bolts
JBC1	25-70	6-35	1
JBC2	35-70	6-35	1
JBC3	35-150	35-150	1
JBC4	50-240	50-150	2

Piercing Connector TTD Series

TTD used for branch connection of insulated cable for building distribution system, connection of LV overhead insulated cables, branch connection of LV insulated service-entrance cable, distribution system of streetlight, etc.



Type	Main line section (mm ²)	Branch section (mm ²)	Norminal current (A)	Bolts
TTD041	6-35	1.5-10	86	1*M8*13mm
TTD051	16-95	1.5-10	86	1*M8*13mm
TTD101	6-50	2.5(6)-35	200	1*M8*13mm
TTD151	25-95	2.5(6)-35	200	1*M8*13mm
TTD201	35-95	25-95	377	1*M8*13mm
TTD251	50-150	25-95	377	1*M8*13mm
TTD271	35-120	35-120	377	1*M8*13mm
TTD281	50-185	2.5(6)-35	200	1*M8*13mm
TTD301	25-95	25-95	377	2*M8*13mm
TTD401	50-185	50-150	504	2*M8*13mm
TTD431	70-240	16-95	377	2*M10*17mm
TTD441	95-240	50-150	504	2*M10*17mm
TTD451	95-240	95-240	530	2*M10*17mm
TTD551	120-400	95-240	679	2*M10*17mm

Piercing Connector CD Series

CD insulation piercing connectors are applicable for low voltage aerial cables. These connectors are used to establish T-connections and Joint-connections. Main line is pierced by teeth without being stripped of insulation while tap line should be stripped of insulation before being inserted into the hole. Shear head bolts applied for main line.

- Used for branch connection
- Main line: insulated aluminum cable
- Tap line: bare aluminum cable or bare copper cable
- Connector body is made of aluminum alloy with high mechanical strength and ensures stable performance.
- Special designed shear head bolt allows efficient installation within specific shear-off torque. Constant force ensures teeth penetrate cable without damaging mechanical strength of conductor.
- Insulation sheath provides superior waterproof.
- Standard: EN 50483-4, NF C 33-020, NF C 33-004.

Piercing Connector CD Series



Type	Main line section (mm ²)	Branch section (mm ²)
CD70	16-70	1.5-35
CD150	50-150	4-50

Insulation Dead End Clamp

IDEC1 IDEC5 IDEC6 IDEC7 IDEC8 tension clamp is used to anchor and tighten insulated service line on poles or walls.

IDEC2 tension clamp is used to anchor and tighten insulated service line with 2 conductors.

IDEC3 IDEC4 tension clamp is used to anchor and tighten insulated service line with 4 conductors.

- IDEC tension clamp is made of weather resistant and anti-UV material with high mechanical strength.
- Easy installation without any additional tool.
- No loose parts could fall off during installation.
- Standard: NF C 33-042.



IDEC1



IDEC2



IDEC3



IDEC4



IDEC5



IDEC6



IDEC7



IDEC8

Type	Cross section(mm ²)
IDEC1	1*10/1*16
IDEC2	2*16/2*25
IDEC3	4*16/4*25
IDEC9A	1*16/1*70
IDEC4	4*16/4*25
IDEC9B	2*6/2*16
IDEC5	1*4/1*25
IDEC9C	2*4/2*25
IDEC6	16-25
IDEC7	25-50
IDEC8	54.6-70

Aluminum anchor clamp PAM Series

This anchoring assembly is used for the single anchoring of A.B.C.(Aerial Bundled Conductors) with insulated neutral messenger. It comprises a bracket supporting one or two anchoring clamps.

- Reduced dimensions for easier handling.
- High mechanical and climatic resistance.
- Cable gripping device in insulating material ensures the double insulation of the neutral core and avoids damage to sheath.
- Stainless steel bail with two marbles compressed on the end.
- Standard:NF C 33-041.



PAM1



PAM2



PAM3

Type	Cross section(mm ²)
PAM1	16-20mm ²
PAM2	16-25mm ²
PAM3	16-25mm ²

Aluminum anchor clamp JBG Series

JBG tension clamp are used to anchor and tighten low voltage aerial cables with insulated neutral messenger.

- Body is made of corrosion resistant extruded aluminum alloy.
- Metal support is made of stainless steel or steel.
- Wedges are made of weather resistant and anti-UV material with high mechanical strength.
- Standard:EN 50483-3,NF C33-041.

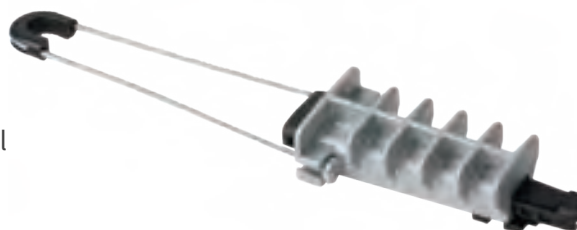


Type	Conductor Cross-section(mm ²)	Breaking load
JBG1000	25-35mm ²	10kN
JBG1500	54.6-70mm ²	15kN
JBG2000	70-95mm ²	20kN

Aluminum anchor clamp PAL Series

PAL tension clamp are used to anchor and tighten low voltage aerial cables with insulated neutral messenger.

- Body is casted of corrosion resistant aluminum alloy with high mechanical strength.
- Metal support is made of stainless steel or steel.
- Wedges are made of weather resistant and anti-UV material with high mechanical strength.
- Standard:EN 50483-3,NF C33-041.



Type	Conductor Cross-section(mm ²)	Breaking load
PAL1000	25-35mm ²	10kN
PAL1500	54.6-70mm ²	15kN
PAL2000	70-95mm ²	20kN

Aluminum anchor clamp PAT Series

PAT tension clamp are applicable to four-core self-supporting low voltage aerial cables. These clamps are used for anchoring and tightening insulated conductors.

- Iron braces are made of steel strap with surface galvanized.
- Wedges are made of weather resistant and anti-UV material with high mechanical strength.
- Equipped with bolts.
- Strong springs between wedges facilitate the insertion of conductors.
- No loose parts could fall off during installation.



Type	Cross section(mm ²)	Messenger DIA.(mm)	Breaking load
PAT15000	4*(35-50)	11-14	15kN
PAT20000	4*(50-120)	11-17	20kN
PAT150007095	4*(70-95)	14-16	15kN

Aluminum anchor clamp RPA Series

RPA dead end clamps are applicable to anchor fastenings for self-support insulated conductor with four bearing wires of same section. And used for the single anchoring of A.B.C. (Aerial Bundled Conductors) with insulated neutral messenger..

- Reinforced polyamide fiberglass body.
- Two clamping steel plates with steel bolts.
- The spring, provide automatic opening of clamp for installation and fastening of wires.



Type	Cross section(mm ²)	Messenger DIA.(mm)	Breaking load
RPA15000	4*(25-50)	10-12	15kN
RPA20000	4*(50-120)	11-17	20kN

Aluminum anchor clamp PA Series

Used for the termination of 2 cores overhead cable to poles or walls by means of standard hooks.

- Material:Mild steel,nylon plus fiberglass.



Type	Cross section(mm ²)	Messenger DIA.(mm)	Breaking load
PA6500	2*(16-35)	3-6	6.5kN
PA8000	2*16-4*35	3-6	8kN

Aluminum anchor clamp PAG Series

Used for the termination of 2 or 4 cores overhead cable to poles or walls by means of standard hooks.

- Reinforced polyamide fiberglass body.
- Two clamping steel plates with steel bolts.
- The spring,provide automatic opening of clamp for installation and fastening of wires.



Type	Cross section(mm ²)	Messenger DIA.(mm)	Breaking load
PAG6000	2*(16-35)	4-8	6kN
PAG8000	4*(16-35)	4-8	8kN

Aluminum anchor clamp PAS Series

Used for the termination of 2 or 4 cores overhead cable to poles or walls by means of standard hooks.

- Reinforced polyamide fiberglass body.
- Two clamping steel plates with steel bolts.
- The spring,provide automatic opening of clamp for installation and fastening of wires.

Type	Cross section(mm ²)	Messenger DIA.(mm)	Breaking load
PAS4000	4*(16-35)	4-11	4kN

Aluminum anchor clamp NXJ Series

NXJ Series clamp is a kind of anchor clamp in distribution line. It is applicable for aerial insulated conductor on the corner or terminal wire pole.

The product is equipped with 1kV 10kV 20kV plastic inner wedge separately according to the voltage standard. The product body is cast with high strength aluminum alloy and has the advantages such as high strength, good holding power, light in weight, no magnetic hysteresis loss and easy of installation.

- The shell made of anti-oxidation high strength aluminum alloy, without waste power.
- The core of wedge made of insulating reinforce plastics, 1-10kV withstand voltage: ≥ 18 kV, not breakdown one min.
- No need to remove the insulation layer, Al-core wire can be used directly.
- Without waste power.
- Wedge structure, easy to install.



TYPE	Insulated Al cable size(mm ²)			core size	grip strength (kN)	breaking load (kN)
	1kV	10kV	20kV			
NXJ1	16-35	-	-	7.1-10	1.6	13.7
NXJ2	50-70	16-25	-	11.7-13.7	2.4	13.7
NXJ3	95	35-50	-	14.8-16.1	4.55	13.7
NXJ4	50-70	10-16	-	11.2-12.8	-	21
NXJ5	70-95	16-35	-	12.6-15.8	-	21
NXJ6	95-120	35-50	-	14.8-16.7	-	21
NXJ7	120-150	70-95	25-35	17.8-19.4	8.9	21
NXJ8	185	120-150	50-70	20.8-22.4	13.65	21
NXJ9	185	120-150	50-70	20.8-22.4	13.65	43.3
NXJ10	240	185-240	95-120	24-26.2	22.5	-
NXJ11	-	300	120-150	28.4	28.2	46.5



Anchor Bracket CS10-CS20 Series

Anchor bracket made of aluminium alloy designed for main cables. or up to. Fixing on poles by 2 bolts (\times 14 or 16 mm) or by 2 steel straps (20mm \times 0.7mm stainless).

Type	Breaking Load (kN)
CS10	15
CS20	20



Anchor Bracket ES Series

Anchor bracket made of aluminium alloy designed for main cables. or up to. Fixing on poles by 2 bolts (\times 14 or 16 mm) or by 2 steel straps (20mm \times 0.7mm stainless). An upper bulge prevents the clamp from turning over on the bracket.

Type	Breaking Load (kN)
ES	15



Anchor Bracket CS1500 Series

Anchor bracket made of aluminium alloy designed for main cables. or up to. Fixing on poles by 2 bolts (\times 14 or 16 mm) or by 2 steel straps (20mm \times 0.7mm stainless). An upper bulge prevents the clamp from turning over on the bracket.

Type	Breaking Load (kN)
CS1500	10

Anchor Bracket CS1200 Series

An anchor bracket made of aluminium alloy designed for main cables or up to. Fixing on poles by 2 bolts ($\times 14$ or 16 mm) or by 2 steel straps ($20\text{mm} \times 0.7\text{mm}$ stainless). An upper bulge prevents the clamp from turning over on the bracket.



Type	Breaking Load (kN)
CS1200	10

Anchor Bracket CA Serie

CA Stainless Steel Anchor Bracket is designed for pulling in overhead cables. It is used for straight lines and small angles up to 30° .



Type	Breaking Load (kN)
CA	2

Suspension Clamp PS Series

PS series suspension clamps are designed for the installation and suspension of four-core self-supporting low voltage aerial cables lines on poles or walls.

- Clamp is made of steel strap with hot-dip galvanized on surface.
- Rubber part is made of weather resistant and anti-UV material.
- Equipped with shear head bolts. Constant installation torque is convenient for installation without any any damage to cable insulation layer.
- No loose parts could fall off during installation.
- Standard: EN 50483-2.

Suspension Clamp PS Series



Type	Cross section (mm ²)	Breaking load(kN)
PS4*25	25	8
PS4*35	35	8
PS4*50	50	8
PS4*70	70	10
PS4*95	95	10
PS4*120	120	10

Suspension Clamp SPD Series

SPD suspension clamps are designed for installation and suspension of four-core self-supporting low voltage aerial cables on poles or walls. For straight lines and angles up to 90°.

- Clamp is made of corrosion resistant aluminum alloy with high mechanical strength.
- Plastic part is made of weather resistant and anti-UV material.
- Shear head bolt and wing nut allow no additional tool during installation.
- Constant installation torque is convenient for installation without any damage to cable insulation layer.
- No loose parts could fall off during installation.
- Standard: EN 50483-2.



Type	Cross section (mm ²)
SPD1	2-4 × (25-50) ≤ 60° / 2-4 × (25-120) ≤ 30°
SPD2	2-4 × (25-120) ≤ 30°
SPD3	2-4 × (25-120) ≤ 90°

Suspension Clamp SJ94 Series

Suspension Clamp SJ94 Series are designed to hang LV-ABC lines with bare neutral messenger. It consists of aluminum alloy clamp body and with plastic mould base.

Type	Cross section (mm ²)	Breaking load(kN)
SJ94	16-95	12

Suspension Clamp SJ95 Series

Suspension Clamp SJ95 Series are used to hang low voltage aerial cables on poles with insulated neutral messenger.

- Made of corrosion resistant aluminum alloy with high mechanical strength and weather resistant and anti-UV material.
- Binding bolt equipped with wing nut allows tool free installation.
- No loose parts could fall off during installation.
- Standard:EN 50483-3,NF C 33-040.

Type	Cross section (mm ²)	Breaking load(kN)
SJ95	16-95	12

Suspension Clamp SJ96 Series

Suspension Clamp SJ96 Series are used to hang low voltage aerial cables on poles with insulated neutral messenger.

Type	Cross section (mm ²)	Breaking load(kN)
SJ96	16-95	12



SJ94



SJ95



SJ96

Suspension Clamp 11A Series

Suspension Clamp 11A Series are used to hang low voltage aerial cables on poles with insulated neutral messenger.

- Clamp and ring pull are made of weather resistant and anti-UV material with high mechanical strength.
- Neutral messenger is placed in the groove and locked by an adjustable grip device to fit different cable sizes.
- Easy installation, without any additional tools.
- No loose parts could fall off during installation.
- Standard: EN 50483-3, NF C33-040.

Type	Cross section (mm ²)	Breaking load(kN)
11A	16-95	12

Suspension Clamp 11B Series

Suspension Clamp 11B Series are used to hang low voltage aerial cables on poles with insulated neutral messenger.

Type	Cross section (mm ²)	Breaking load(kN)
11B	16-95	12

Suspension Clamp 11C Series

Suspension Clamp 11C Series are used to hang low voltage aerial cables on poles with insulated neutral messenger.

- Clamp and ring pull are made of weather resistant and anti-UV material with high mechanical strength.
- Neutral messenger is placed in the groove and locked by an adjustable grip device to fit different cable sizes.
- Easy installation, without any additional tools.
- No loose parts could fall off during installation.
- Standard: EN 50483-3, NF C33-040.

Type	Cross section (mm ²)	Breaking load(kN)
11C	16-95	12



11A



11B



11C

Suspension Clamp PS15001 / PS15002 / CS14

Standard suspension assemblies CS is supplied with preinstalled bracket. The upper bulge of the bracket prevents the clamp from turning over the bracket. The fittings used to support the aerial bundle cable consist of one size of the suspension clamp (according to the range of cable size) and the aluminum alloy bracket which can be bolted with M12 or M16 bolts or strapped to the pole with 2 stainless steel straps 20*0.7mm. No damage shall be made to the insulation of the conductors when clamping the bundle to a suspension assembly.

- Clamp and ring pull are made of weather resistant and anti-UV material with high mechanical strength.
- Neutral messenger is placed in the groove and locked by an adjustable grip device to fit different cable sizes.
- Easy installation, without any additional tools.
- No loose parts could fall off during installation.
- Standard: EN 50483-3, NF C33-040.



PS15001

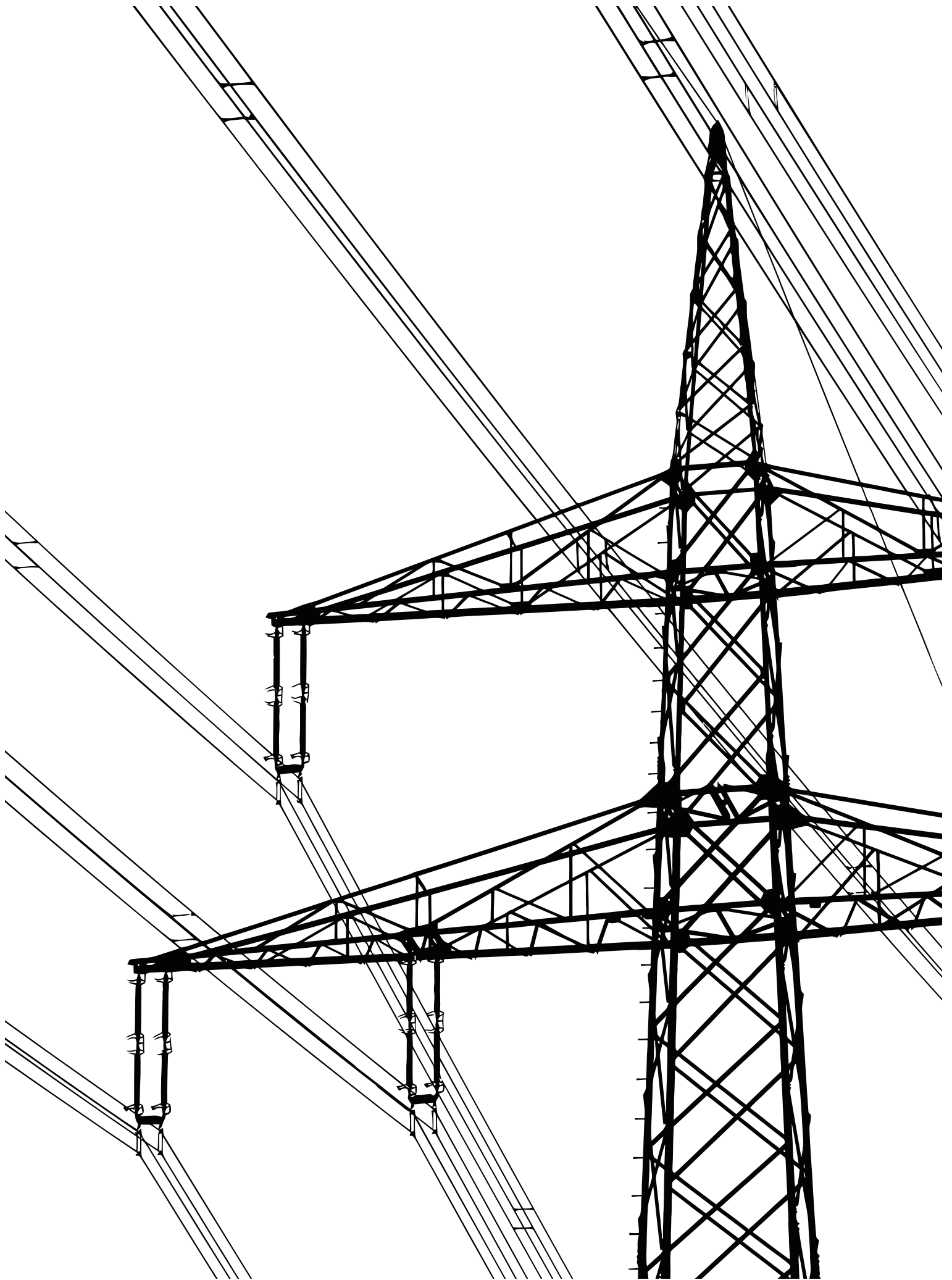


PS15002



CS14

Type	Bracket	Clamp
PS5001	CS1500 12kN	11B
PS5002	ES1500 15kN	11C
CS14	ES1500A 10kN	11B



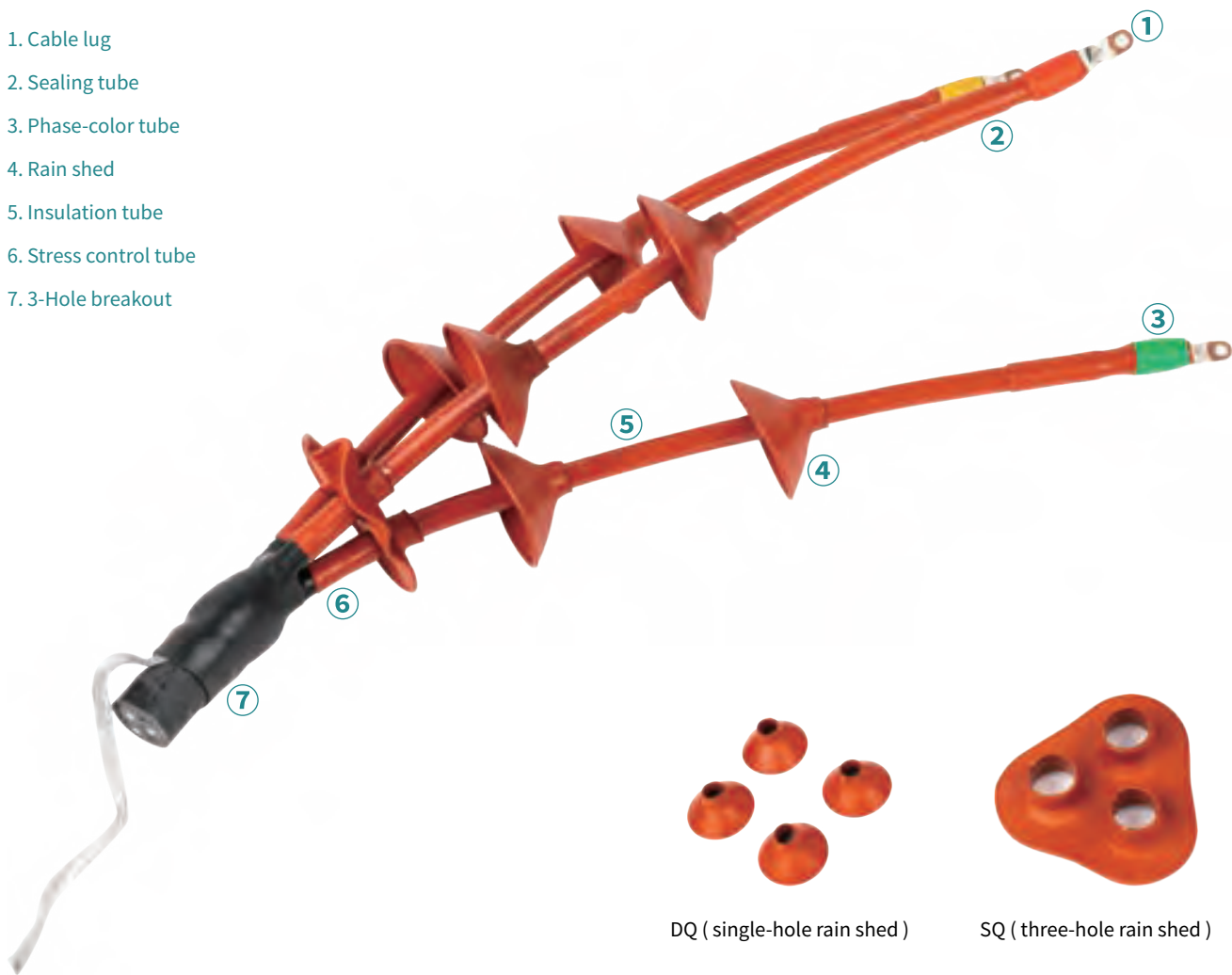
CABLE TERMINAL JOINT TOOLS



1kv. 11kv. 33kv Series Heat-shrinkable Cable Accessories (termination Kit)

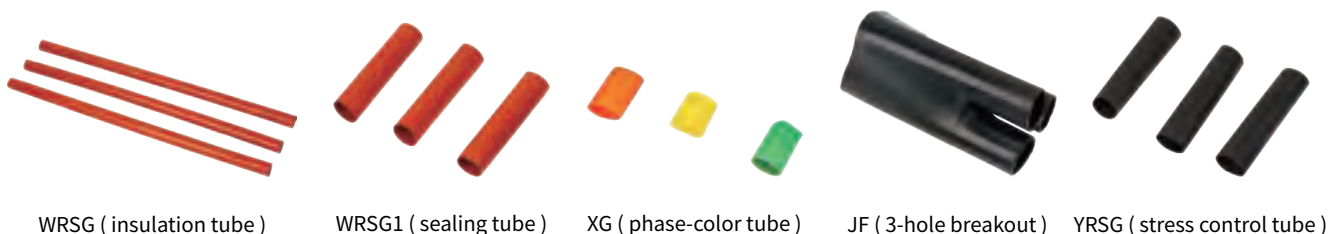
1KV. 11 KV. 33KV series heat-shrinkable cable termination kit and joints have the function of water-proof, stress control and insulation. With the excellent electrical and mechanical function, they can be used in all kinds of conditions for a long time. With light weight and easy mounting, they are widely used in power supply, and petrochemicals, metallurgy, railway station, sea port and other construction.

- 1. Cable lug
- 2. Sealing tube
- 3. Phase-color tube
- 4. Rain shed
- 5. Insulation tube
- 6. Stress control tube
- 7. 3-Hole breakout



DQ (single-hole rain shed)

SQ (three-hole rain shed)



WRSG (insulation tube)

WRSG1 (sealing tube)

XG (phase-color tube)

JF (3-hole breakout)

YRSG (stress control tube)

Connector Press CPTH Series

Radiation cross-linked heat shrinkable polymer materials for power cable engineering indoor and outdoor protection, with excellent Proof Tracking Index and anti-pollution performance, in harsh environments to maintain long-term, safe and stable operation.



Item	Mode & Specification	The Applicable Cable Section
1-core joint	JSY-11/1·1	25-50
	JSY-11/1·2	70-120
	JSY-11/1·3	150-240
	JSY-11/1·4	300-400
3-core joint	JSY-11/3·1	25-50
	JSY-11/3·2	70-120
	JSY-11/3·3	150-240
	JSY-11/3·4	300-400
1-core joint	JSY-24/1·1	25-50
	JSY-24/1·2	70-120
	JSY-24/1·3	150-240
	JSY-24/1·4	300-400
3-core joint	JSY-24/3·1	25-50
	JSY-24/3·2	70-120
	JSY-24/3·3	150-240
	JSY-24/3·4	300-400
1-core joint	JSY-33/1·1	25-50
	JSY-33/1·2	70-120
	JSY-33/1·3	150-240

Hydraulic Crimping Tools

1. The compression pliers are designed for hydraulic crimping on power cable and wire.
2. The crimped conductor is tested in high conductivity and close contact so that it's uneasy to break out and turn hot.
3. The head could be rotated 180° freely for narrow space working. (Uncovering KYQ-300).
4. Fiberglass insulated handles to prevent accidental electric hitting. (CYO-410, CYO-430, CYO-510B).
5. Packing case is made from robust integral plastic box.



Type	Output (T)	Contact Mould (mm ²)	Ram Stroke (mm)	Size (mm)	Weight (kg)
CYO300	12	35-300	30	525x110x80	6.0
CYO400	12	50-400	30	525x110x80	6.2
CYO410	12	35-300	30	620x160x70	6.5
CYO430	12	35-300	30	620x160x70	6.5
CYO510	12	50-400	38	650x150x70	7.2
KYO300	12	16-300	25	520x145x80	7.0
HP150	11	16-150	-	460x130x70	4.1
HP210	12	16-240	-	460x130x70	4.5

Ratchet Cable Cutter

1. Ratchet cable cutter which adopted ratchet and driving unit, could be operated by one hand.
2. Simple and light. It is designed for cutting Cu/Al cable, single strand and multi-strands. Note;
3. Cutting steel wire and hard-drawn copper wire are strictly prohibited.
4. Sharp blade to cut conductor evenly without deform.



Energy Saving Cable Cutter with Long Arm

1. Forged knife edge for long shelf life and easy cutting.
2. High strength Al Alloy handles.
3. Note: Cutting steel rope and hard drawn copper wires are prohibited.



Grip Haven Puller

Tyler Tool Wire Rope & Cable Grip for 3/32" - 5/8" wire rope and cable. Rated Capacity: 1 tons (2004 lbs).

- Parallel jaws provide firm grip without damaging cable.
- Guide prevents the grip from dropping off the cable and allows instant release.
- Made from drop forged alloy steel for durability and toughness.



Hand Winch

- Zinc Plated Heavy Gauge Steel Frame.
- Drop Forged Galvanized Steel Safety-Latch Hook.
- 32.8ft x 13/64" Diameter Heavy Duty Cable.
- Smooth-Action Ratcheting Crank For Easy Pulling Power.
- Contoured, Sure-Grip Crank Handle.
- Installs Quickly With 3Pc 3/8" Bolt And Lock Nut.





Plastic Cladding Earthing Copper Wire



Outdoor Screwed Type Earthing Wire



H.V. Electroscopes



High Altitude Double Back Life Belt



Wood Pole Climber



Safety Helmet



Insulating Boots



Insulated Ladder



Insulating Wire Grip



Insulating Gloves



Lever Hoist



Non Corrosion Chain Block



Wire Rope Winch



Snatch Block



Setting Conductor Block



Cable Reel Trailer



Four Conductor Line Cart



Cable Perforation Device



Hand Puller



Hand Winch



Snatch Block



Running Board For Two Bundle Conductors



Wire Net Coupling



Single Sheave Stringing Cable Pulley Block With Hook For ACSR Conductor



Steel Cable Pulley Block

B U S I N E S S N E G O T I A T I O N

INVITATION

Dear Sir or Madam:

We are very pleased to invite Mr. come to our company for visiting and business negotiation. And because the long business co-operation in future between company. and us, they will come to China for many times. Please note, however, that we don't assume any legal or financial responsibility whatever regarding the presence of in China. All expenses of 'Sjourney to/from China, their stay in China as well as health insurance will be borne by their employers. We send you our kindest regards and best wishes for a pleasant trip.

TTF POWER





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