ZHEJIANG SEATRUST POWER CO., LTD

Electric Power Fitting Product Catalogue

ZHEJIANG SEATRUST IMP.& EXP CO., LTD
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"Outstanding people driving superior process"

Production Equipment

CONVENTIONAL MACHINING CENTER

High-strength Aluminum alloy anneating equipment

Certification System

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

is in confonmity with GB/T24001-2004/IS0 9001:2000

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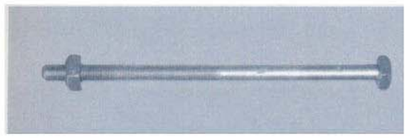


MACHINE BOLT
Hot Dip Galvanized
Square Head and Square Nut

All VIC Machine Bolts are hot dip galvanized, with rolled threads and lineman preferred head and nut. Bolts more than 6 inches in length are made with buf fer point. Manufactured in accordance ANSI standards C135.1-1979.

Stock No.	Bolt Length Inch (mm)	Thread Length Inch (mm)	Approximately Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
1 /2 Inch Diameter Minimum Tensile Strength: 35,000kg.				
A0112-1.5	1-1/2(38)	1-1/4(32)	7.70	250
A0112-02	2(50)	1-3/4(44)	8.70	200
A0112-2.5	2-1/2(63)	2-1/4(58)	10.00	200
A0112-03	3(75)	2-3/4(69)	11.00	200
A0112-04	4(100)	3(75)	13.00	200
A0112-05	5(125)	3(75)	15.00	200
A0112-06	6(150)	3(75)	17.00	100
A0112-08	8(200)	4(100)	21.00	100
A0112-10	10(250)	4(100)	25.00	100
A0112-12	12(300)	6(150)	29.00	100
A0112-14	14(350)	6(150)	33.00	75
A0112-16	16(400)	6(150)	37.00	75
A0112-18	18(450)	6(150)	41.00	80
5/8 Inch Diameter Minimum Tensile Strength: 5,680Kg.				
A0158-05	5(125)	6(150)	25.00	100
A0158-06	6(150)	6(150)	29.00	60
A0158-08	8(200)	6(150)	35.00	65
A0158-10	10(250)	6(150)	42.00	50
A0158-12	12(300)	6(150)	48.00	50
A0158-14	14(350)	6(150)	53.00	50
A0158-16	16(400)	6(150)	61.00	50
A0158-18	18(450)	6(150)	68.00	50
A0158-20	20(500)	6(150)	74.00	50
A0158-22	22(550)	6(150)	81.00	50
A0158-24	24(600)	6(150)	86.25	50
A0158-26	26(650)	6(150)	93.50	10/bundle
A0158-28	28(700)	6(150)	96.50	10/bundle

Stock No.	Bolt Length Inch (mm)	Thread Length Inch (mm)	Approximately Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
3 /4 Inch Diameter Minimum Tensile Strength: 8,340Kg.				
A0134-08	8(200)	4(100)	51.00	50
A0134-10	10(250)	4(100)	61.00	45
A0134-12	12(300)	6(150)	71.00	60
A0134-14	14(350)	6(150)	80.00	40
A0134-16	16(400)	6(150)	90.00	40
A0134-18	18(450)	6(150)	100.00	40
A0134-20	20(500)	6(150)	110.00	40
A0134-22	22(550)	6(150)	116.00	40
A0134-24	24(600)	6(150)	122.00	40
A0134-26	26(650)	6(150)	128.00	40
7/8 Inch Diameter Minimum Tensile Strength: 11,550Kg.				
A0178-14	14(350)	6(150)	129.00	25
A0178-16	16(400)	6(150)	137.00	25
A0178-18	18(450)	6(150)	145.00	25
A0178-20	20(500)	6(150)	153.00	25
A0178-22	22(550)	6(150)	161.00	25

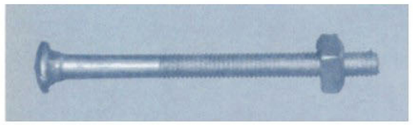
A2

BRACE BOLT
Hot Dip Galvanized

VIC Brace Bolt is used in place of a carriage bolt for fastening a brace to a cross arm. Minimum Tensile Strength 4,250 lbs. Available in special order in production quantities.

Stock No.	Diameter (inch)	Bolt Length Inch (mm)	Thread Length Inch (mm)	Approximately Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
A0238-4.5	3/8	4-1/2(113)	2(50)	9.60	250
A0212-4.5	1 /2	4-1/2(113)	2(50)	18.10	250

A3

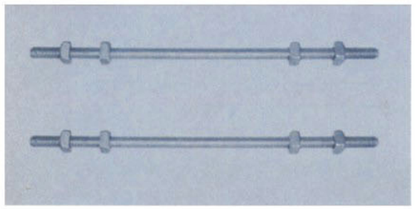


CARRIAGE BOLT
Hot Dip Galvanized

VIC hot dip galvanized Carriage Bolts are rolled threaded with square shoulder and square nut. Manufactured in accordance with ANSI standards.

Stock No.	Bolt Length Inch (mm)	Thread Length Inch (mm)	Approximately Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
3/8 Inch Diameter Minimum Tensile Strength: 3,500Kg.				
A0338-03	3(75)	2(50)	7.00	150
A0338-04	4(100)	3(75)	6.10	150
A0338-4.5	4-1/2(113)	3(75)	6.70	150
A0338-05	5(125)	3(75)	7.10	150
A0338-5.5	5-1/2(138)	3(75)	9.20	150
A0338-06	6(150)	3(75)	8.30	150
1 /2 Inch Diameter Minimum Tensile Strength: 1,930Kg.				
A0312-4.5	4-1/2(113)	3(75)	13.00	200
A0312-05	5(125)	3(75)	13.50	200
A0312-5.5	5-1/2(138)	3(75)	15.60	200
A0312-06	6(150)	3(75)	16.30	200
A0312-07	7(175)	4(100)	18.60	200
A0312-08	8(200)	4(100)	20.90	200

A4



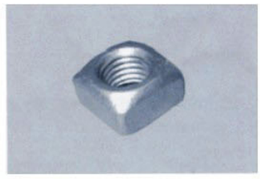
DOUBLE ARMING BOLT
Hot Dip Galvanized

VIC double Arming Bolts are rolled threaded with buffer points at both ends. Manufactured in accordance with ANSI standards.

"DA" bolts are furnished with four square nuts. Other lengths for 1/2-inch and 7/8-inch diameter are available on special order in production quantities.

Stock No.	Bolt Length Inch (mm)	Approximately Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
1 /2 Inch Diameter Minimum Tensile Strength: 3,500Kg.			
A0412-10	10(250)	24.50	75
A0412-12	12(300)	28.50	70
A0412-14	14(350)	32.50	65
A0412-16	16(400)	36.40	65

Stock No.	Bolt Length Inch (mm)	Approximately Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
5/8 Inch Diameter Minimum Tensile Strength: 5,680Kg.			
A0458-10	10(250)	49.00	40
A0458-12	12(300)	56.00	50
A0458-14	14(350)	62.00	35
A0458-16	16(400)	69.00	40
A0458-18	18(450)	75.00	40
A0458-20	20(500)	82.00	40
A0458-22	22(550)	88.00	40
A0458-24	24(600)	95.00	40
A0458-26	26(650)	101.00	10/bundle
A0458-28	28(700)	108.00	10/bundle
A0458-30	30(750)	114.00	10/bundle
A0458-32	32(800)	121.00	10/bundle
3 /4 Inch Diameter Minimum Tensile Strength: 8,340Kg.			
A0434-12	12(300)	58.00	35
A0434-14	14(350)	66.00	30
A0434-16	16(400)	77.00	35
A0434-18	18(450)	86.00	35
A0434-20	20(500)	96.00	35
A0434-22	22(550)	105.00	35
A0434-24	24(600)	115.00	30
A0434-26	26(650)	124.00	10/bundle
A0434-28	28(700)	134.00	10/bundle
A0434-30	30(750)	143.00	10/bundle

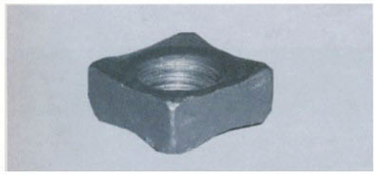


SQUARE NUT
Hot Dip Galvanized

A5

VIC Square Nuts are manufactured in accordance with American National standards institute. Specification B18.2.2 and tapped Unified National Coarse Thread Series Class 2B, oversize for galvanized bolts and rods.

Stock No.	Bolt Length Inch (mm)	Thread Length Inch (mm)	Approximately Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
REGULAR				
A0538R	0.375(9)	16(400)	1.20	2,000
A0512R	0.5(13)	13(325)	2.50	1,000
A0558R	0.625(16)	11(275)	4.20	500
A0534R	0.75(19)	10(250)	6.50	400
A0578R	0.875(22)	9(225)	11.00	250
HEAVY				
A0558H	0.625(16)	11(275)	5.80	500
A0534H	0.75(19)	10(250)	10.90	250
A0578H	0.875(22)	9(225)	19.50	150
A0510H	1(25)	8(200)	23.50	100

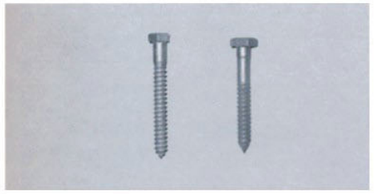


MF N O.1 LOCK NUTS-REGULAR BOLT
Hot Dip Galvanized

A6

The MF square lock nut when tightened with a wrench-firmly grip the bolt thread the securely locks the bolt nut.

Stock No.	Nominal Size Inch (mm)	Thread Length Inch (mm)	Approximately Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
A0638	3/8(9)	16(400)	7.90	1,000
A0612	1 /2(13)	13(325)	8.80	1,000
A0658	5/8(16)	11(275)	9.90	1,000
A0634	3/4(19)	10(250)	10.80	1,000

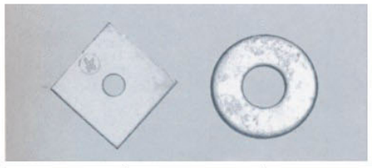


LAG SCREW
Hot Dip Galvanized

A7

VIC Lag Screws are available in several types either Fetter Drive or Gimlet Point Drive. All VIC lag screw have rolled threads and ANSI B18.2.2 standard square heads. Manufactured in accordance with ANSI standards.

Stock No.	Diameter	Bolt Length Inch (mm)	Thread Length Inch (mm)	Approximately Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
GIMLET DRIVE POINT					
A0712G3	1 /2	3(75)	2(50)	8.50	350
A0712G4	1 /2	4(100)	2-1/2(63)	10.80	250
A0712G5	1 /2	5(125)	3(75)	12.60	250
FETTER DRIVE REGULAR POINT					
A0712F3	1 /2	3(75)	2(50)	8.60	350
A0712F4	1 /2	4(100)	2-1/2(63)	10.80	250
A0712F5	1 /2	5(125)	3(75)	12.70	250
A0758F5	5/8	5(125)	3(75)	20.00	250

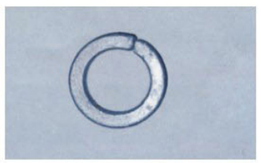


WASHERS
Hot Dip Galvanized

A8

Stock No.	Outside Diameter Inch	Thickness Gauge B.W.	Hole Diameter Inch	For Bolt Diameter Inch	Approximately Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
ROUND WASHER						
A0838R	1	14	7/16	3/8	0.93	1,000
A0838R1	1-1 /4	14	9/16	3/8	1.52	1,000
A0812R	1-3/8	12	9/16	1/ 2	2.00	1,000
A0858R	3-3 /4	10	11/16	5/8	4.00	500
A0834R	2	9	13/16	3/ 4	5.10	700

Stock No.	Size Inch	Hole Diameter Inch	For Bolt Diameter Inch	Approximately Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
SQUARE FLAT WASHER					
A08F2-01	2×2×1/8	9/16	1/2	5.70	400
A08F2-02	2×2×1/8	11/16	5/8	5.40	400
A08F2-03	2×2×3/16	11/16	5/8	8.10	400
A08F2-04	2×2×3/16	13/16	3/4	7.90	400
A08F2-05	2-1/2×2-1/2×3/16	11/16	5/8	14.00	300
A08F2-06	2-1/2×2-1/2×3/16	13/16	3/4	13.50	300
A08F2-07	2-1/4×2-1/4×3/16	11/16	5/8	11.00	300
A08F2-08	2-1/4×2-1/4×3/16	13/16	3/4	10.60	300
A08F3-01	3×3×3/16	11/16	5/8	19.50	150
A08F3-02	3×3×3/16	13/16	3/4	19.20	150
A08F4-01	4×4×1/4	11/16	5/8	47.00	450
A08F4-02	4×4×1/4	13/16	3/4	46.60	450
A08F4-03	4×4×1/2	11/16	5/8	94.00	450
A08F4-04	4×4×1/2	13/16	3/4	93.40	450
A08F4-05	4×4×3/16	11/16	5/8	34.48	450
A08F4-06	4×4×3/16	13/16	3/4	34.15	450
SQUARE CURVE WASHER					
A08C2-01	2×2×1/8	9/16	1/2	5.70	400
A08C2-02	2×2×1/8	11/16	5/8	5.40	400
A08C2-03	2×2×3/16	11/16	5/8	8.10	400
A08C2-04	2×2×3/16	13/16	3/4	7.90	400
A08C2-05	2-1/2×2-1/2×3/16	11/16	5/8	14.00	300
A08C2-06	2-1/2×2-1/2×3/16	13/16	3/4	13.50	300
A08C2-07	2-1/4×2-1/4×3/16	11/16	5/8	11.00	300
A08C2-08	2-1/4×2-1/4×3/16	13/16	3/4	10.60	300
A08C3-01	3×3×3/16	11/16	5/8	19.50	150
A08C3-02	3×3×3/16	13/16	3/4	19.20	150
A08C4-01	4×4×1/4	11/16	5/8	47.00	450
A08C4-02	4×4×1/4	13/16	3/4	46.60	450
A08C4-03	4×4×1/2	11/16	5/8	94.00	450
A08C4-04	4×4×1/2	13/16	3/4	93.40	450
A08C4-05	4×4×3/16	11/16	5/8	34.48	450
A08C4-06	4×4×3/16	13/16	3/4	34.15	450



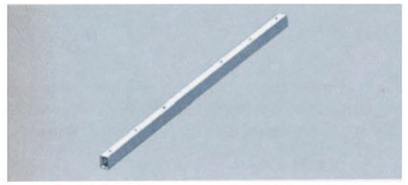
SPRING LOCK WASHER

A9

Hot Dip Galvanized

VIC Spring Lock Washers are made of high-grade spring steel to keep a bolt nut in tension, insuring a tight assembly under all temperatures.

Stock No.	Size Inch	For Bolt Diameter Inch	Approximately Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
A0938LW	0.141×0.094	3/8	3.60	5,000
A0912LW	0.171×0.125	1/2	5.00	3,500
A0958LW	0.203×0.156	5/8	1.00	2,000
A0934LW	0.234×0.188	3/4	1.40	1,250



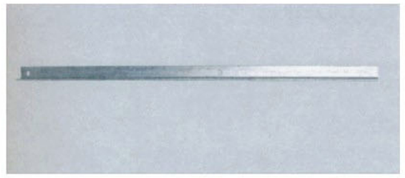
RECTANGULAR STEEL CROSSARM

B1

Hot Dip Galvanized

The B01 series VIC Steel Cross Arm are used either for cross arm construction or sidearm construction for single phase to three phase circuit application(13.8 kV to 69 kV), mounting holes are pre-drilled with the power utility cross arm-driling guide.

Stock No.	Size mm	Length mm	Approximately Ship Weight kg. / Pc.	Standard Pkg. Qty./ Carton
B0110	75×100	1,700	14.70	50
B0111	75×100	2,400	17.10	50
B0112	75×100	3,000	21.20	50



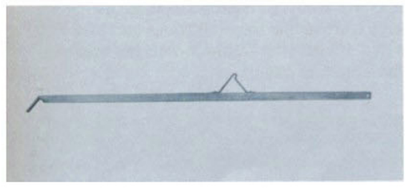
VERTICAL SIDEARM BRACE

B2

Hot Dip Galvanized

Three VIC braces are used for sidearm construction and double primary support either for 13.2 kV to 69 kV circuit application.

Stock No.	Size mm	Length mm	Hole Diameter mm	Mounting End mm	Approximately Ship Weight kg. / Pc.
B0209	L38×L38×5	1,270	14	25	3.80
B0207	L50×L50×8	1,030	14	60	6.50
B0205	L50×L50×8	1,320	14	60	8.30
B0203	L50×L50×8	1,940	14	60	12.20
B0201	L50×L50×8	2,520	14	60	15.80



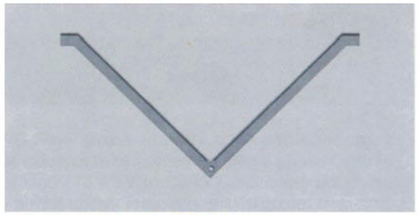
ALLEY ARM BRACE

B3

Hot Dip Galvanized

Alley Arms, cross arms mounted to one side of the pole, mount at a 45-degree angle and come complete with solidly riveted lineman step. These braces are mounted to the side of the arm by a machine bolt and attached to the pole with two 1/2 inch machine bolt or lag screw.

Stock No.	Angle Size mm	Length Feet Ft.(mm)	Dimension		Approximately Ship Weight kg. / Pc.
			A	B	
B0320-01	L45×L45×5	7(2,100)	2,075	25	7.73
B0320-02	L50×L50×5	7(2,100)	2,075	25	8.87
B0321	L50×L50×6	8(2,275)	2,250	25	11.42
B0322	L50×L50×8	10(2,875)	2,850	25	19.00



B4

ANGLE BRACE
Hot Dip Galvanized

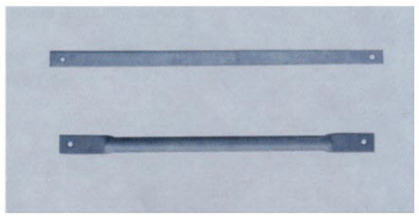
The VIC tow-piece and one-piece double span angle brace are used to support heavy cross arm construction. Braces are attached to the undersize of the cross arm with 1 /2 inch bolts or lag screws and fastened to the pole with a 5/8 inch bolt.

TWO PIECE SPAN BRACE

Stock No.	Span Inch (mm)	Gauge (mm)	Angle Size mm	Approximately Ship Weight kg. / Pc.
TYPE I				
B0440	1,500	450	L38×L38×5	5.14
B0440-01	60(1,524)	18(457)	L38×L38×5	5.30
TYPE II				
B0441	940	450	L38×L38×5	3.32
B0441-01	38(965)	18(450)	L38×L38×5	3.95
TYPE III				
B0442	Are used as tension member on the side of the arm opposite the odd conductor to compensate for the unbalanced load. The pole mounting end is flattened so the brace can be used as either a right hand or left hand member.			

ONE PIECE ANGLE BRACE

Stock No.	Dimensions, Inch Hole Diameter	Dimension		Angle Size mm	Approximately Ship Weight kg. / Pc.
		A Span	B Drop		
TYPE III					
B0442	11/16	42	27	L40×L40×5	3.64

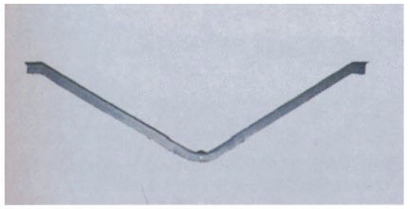


B5

FLAT CROSSARM BRACES
Hot Dip Galvanized

Flat cross arm braces, used in pairs, are an inexpensive means of aligning and supporting cross arms. Mounting hole diameters are 7/16 inch for 3/8 inch cross arm mounting bolts and 9/16 inch for pole mounting with a 1 /2 inch lag screw or machine bolt. Hole centers are 1 inch from the brace ends.

Stock No.	Length Inch	Gauge (mm)	Approximately Ship Weight kg. / Pc.	Standard Pkg. Qty./ Bundle
LIGHT TYPE				
B0526L	26	6	1.13	10
B0528L	28	6	1.20	10
B0530L	30	6	1.23	10
HEAVY TYPE				
B0526H	26	4.5	1.05	10
B0528H	28	4.5	1.20	10
B0530H	30	4.5	1.30	10



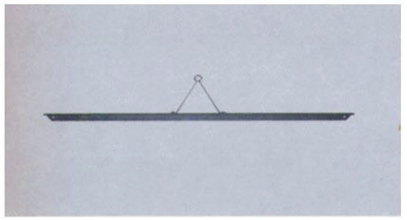
B6

ANGLE BRACE DOUBLE SPAN
Hot Dip Galvanized

The VIC one piece double span brace are used to support heavy cross arm construction. Braces are attached to the underside of the cross arm with 1 /2 inch machine bolt or lag screw and fastened to the pole with a 5/8 inch machine bolt.

ONE PLECE DOUBLE SPAN BRACE

Stock No.	Span Inch (mm)	Gauge (mm)	Angle Size mm	Approximately Ship Weight kg. / Pc.
TYPE IV				
B0641	48(1,219)	14(366)	L40×L40×5	4.14
B0644	48(1,219)	18(457)	L40×L40×5	4.40
B0668	60(1,524)	18(457)	L45×L45×5	6.85
B0682	72(1,829)	22(559)	L50×L50×5	8.20

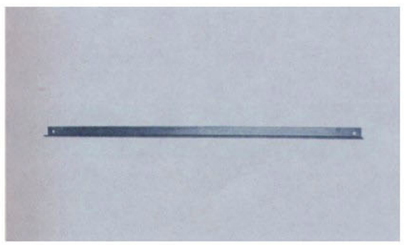


B7

DIAGONAL BRACE
Hot Dip Galvanized

The VIC Diagonal and Back Braces are extension fixtures used as tension member of alley arms to compensate for unbalanced load.

Stock No.	Length mm	Angle Size mm	Approximately Ship Weight kg. / Pc.
B0725	2,100	L50×L50×6	9.30



B8

BACK BRACE
Hot Dip Galvanized

Stock No.	Length mm	Angle Size mm	Approximately Ship Weight kg. / Pc.
B0826	1,685	L50×L50×6	7.62

C1

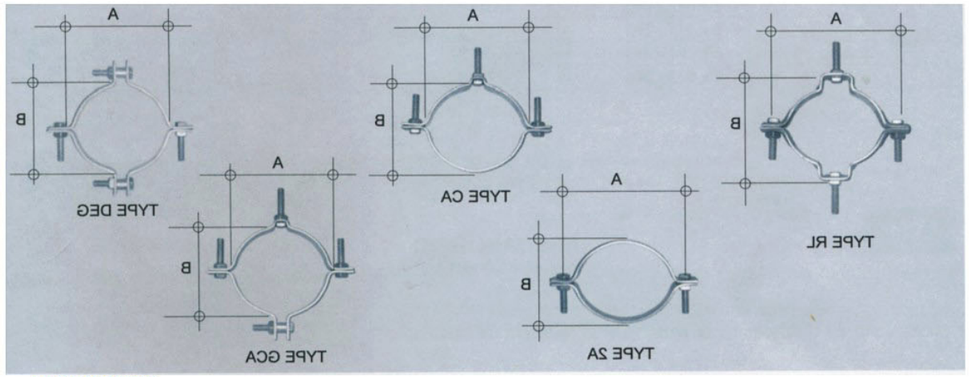
MOUNTING CLAMP ADAPTER
Hot Dip Galvanized

These Clamps are designed to adapt to circular and octagonal concrete steel pole. Alternatively can be adapted to wood poles at the end user option.

The C0150H clamps are heavy duty type band. They are designed with forged reinforcing rib/stiffener on its corner bond for extra flexural strength, used for attaching brace for heavy primary line cross arm of side arm construction.

The C0150 series are used for light cross arm or side arm primary line construction.

Both clamps can be used for attaching extension arm, aerial cable attachment on straight run, attaching cable on corner run, down guying or deadend guying application.

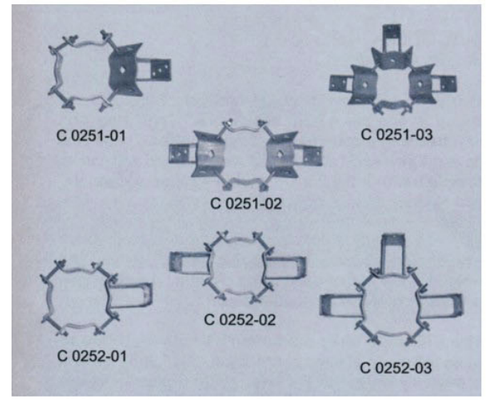


LIGHT DUTY

Stock No.	Range mm	Inch	Dimension				Standard Pkg. Qty./ Bundle
			A mm	B mm	Width mm	Gauge mm	
C0150L-06	127-152	5-6	152	127	50	6	5
C0150L-07	152-178	6-7	178	152	50	6	5
C0150L-08	178-203	7-8	203	178	50	6	5
C0150L-09	203-229	8-9	229	203	50	6	5
C0150L-10	229-254	9-10	254	229	50	6	5
C0150L-11	254-279	10-11	279	254	50	6	5
C0150L-12	279-305	11-12	305	279	50	6	5
C0150L-14	330-356	13-14	356	330	50	6	5
C0150L-15	356-381	14-15	381	356	50	6	5

HEAVY DUTY

Stock No.	Clamp Range			Width mm	Gauge mm	Standard Pkg. Qty./ Bundle
	Diameter Inch mm	Range mm	Inch			
C0150H-08	8(203)	178-203	7-8	64	6	5
C0150H-09	9(229)	203-229	8-9	64	6	5
C0150H-10	10(254)	229-254	9-10	64	6	5
C0150H-11	11(279)	254-279	10-11	64	6	5
C0150H-12	12(305)	279-305	11-12	64	6	5
C0150H-13	13(330)	305-330	12-13	64	6	5
C0150H-14	14(356)	330-356	13-14	64	6	5



C2

TRANSFORMET POLE
MOUNTING BRACKET
Hot Dip Galvanized

Each VIC brackets are provided with corresponding mounting segments(dummy plate) to accordance one, two or three to 167 kVA transformer to a 6-1 /2 inch to 11 inch diameter pole. Comes complete with segment mounting bolt 5/8 "X4" .

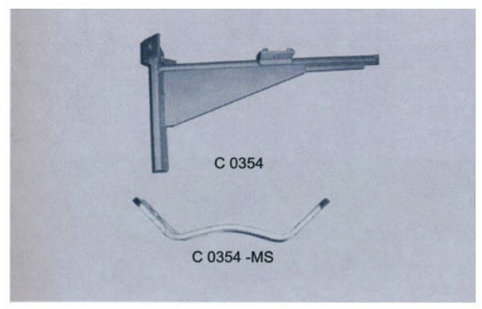
The C0251 and C0251-UT brackets are provided with three 5/8 inch and two 3 /4 inch mounting holes respectively.

A.FOR MOUNTING OF 3 TO 50 KVA TRANSFORMER

Stock No.	No. Of Transformer	No. Of Bracket	No.Of Dummy Plate	Approximate Shipping Weight kg. / Pc.	Standard Pkg. Qty./ Bundle
C0251-01	1	1	3	7.00	1
C0251-02	2	2	2	9.70	1
C0251-03	3	3	1	12.40	1

B.FOR MOUNTING OF 75 TO 167 KVA TRANSFORMER

Stock No.	No. Of Transformer	No. Of Bracket	No.Of Dummy Plate	Approximate Shipping Weight kg. / Pc.	Standard Pkg. Qty./ Bundle
C0252-01	1	2	6	7.20	1
C0252-02	2	4	4	10.10	1
C0252-03	3	6	2	13.00	1



C3

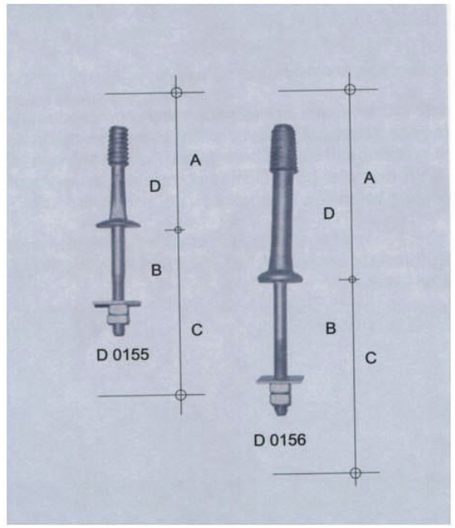
MOUNTING BRACKET FOR
FUSE CUT OUT ARRESTER, 27KV
Hot Dip Galvanized

The mounting bracket assembles are used for simultaneous attachment of fuse cutout and arrester for single or cluster pole mounted type distribution transformer.

Mounting segment for cluster type of application of bracket are ordered separately.

Stock No.	Description	Approximate Shipping Weight kg. / Pc.	Standard Pkg. Kg./Pc.
C0354-MB	Mounting bracket	9.00	1
C0354-MS	Mounting segment	5.08	10

D1



INSULATOR PIN
& ACCESSORIES
Hot Dip Galvanized

The VIC forge low voltage insulator steel pin are forged in one piece from basic open hearth steel and provided with a square wrenching shoulder. These pins have a 1 inch ANSI standard cast lead thread and comes complete with 2×2×1/8 square washer, square nut, and MF lock nut.

The high voltage steel pin comes into two piece open-heart steel. The stud bolt shank is deeply screwed and welded to the forged base of the pin arm. The pins have a 1-3/8 inch ANSI cast lead threads.

The VIC wide base clamp pins 1 inch lead thread sizes are made of open hearth steel. The forged pin arm is securely welded to the base plate. Comes complete with 5/8 "X7" machine bolt and a clamping plate. D0157-01 can be adapted to cross arm size of 3-1 /2×4-1/2 or 3-3 /4×4-3 /4.

LOW VOLTAGE STEEL PIN

Stock No.	A Inch	B Inch	C Inch	D Inch	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
D0155-01	5	5-3/4	5/8	5/8	81.80	40
D0155-02	5	6-1/2	5/8	5/8	86.30	30
D0155-03	5	5-3/4	3/4	3/4	83.50	30
D0155-04	5	6-1/2	3/4	3/4	89.50	30
D0155-05	6	5-3/4	5/8	5/8	89.00	30
D0155H-01	7-7/8	5-3/4	5/8	7/8	179.00	30
D0155H-02	7-7/8	5	5/8	7/8	193.00	30
D0155H-03	7-7/8	5	3/4	7/8	197.00	30
D0155H-04	7-7/8	6-1/2	3/4	7/8	201.00	30

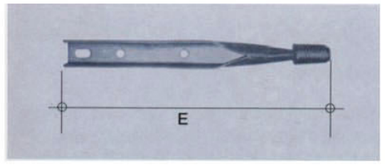
HIGH VOLTAGE STEEL PIN

Stock No.	A Inch	B Inch	C Inch	D Inch	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
D0156-01	9	7	3/4	1-1/8	295.00	15
D0156-02	9	6-1/2	3/4	1	210.00	15

WIDE BASE CLAMP STEEL PIN

Stock No.	A Inch	B Inch	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
D0157-01	6	7/8	159.00	10

D2



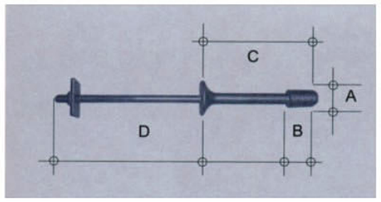
POLE TOP PIN
Hot Dip Galvanized

VIC pole top pin has ANSI standard cast lead thread. These pressed steel pins are mounted with the flat side of the channel section against the pole with 5/8 inch machine bolt.

LOW VOLTAGE STEEL PIN

Stock No.	A Inch Lead Thread	B mm	C mm	D mm	E Inch (mm)	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
D0258-01	1	279	127	76	20(508)	140.00	15
D0258-02	1-3/8	279	127	76	20(508)	180.00	15

D3



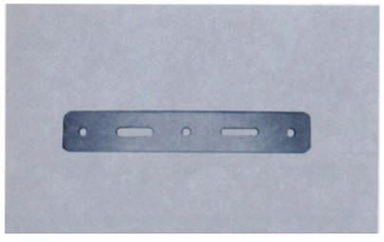
TRANSFORMER LEAD PIN
Hot Dip Galvanized

This pin is used for carrying the lead to the transformer. It has a cast lead thread for insulators with ANSI standard 1 inch and 1-3/8 inch threaded pin holes.

STAND–OFF PIN

Stock No.	A Inch Lead Thread	B mm	C mm	D mm	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
D0359-01	1	44	203	305	220.00	10
D0359-02	1-3/8	54	254	305	184.00	10

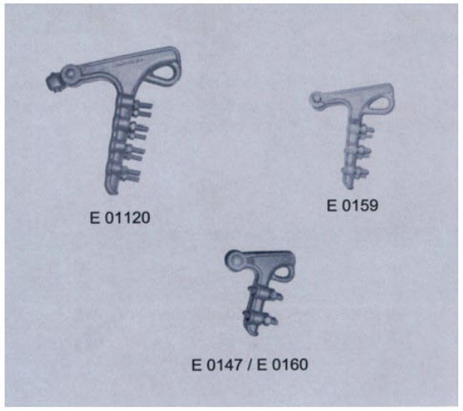
D4



DOUBLE ARMING PLATE
Hot Dip Galvanized

These plates are used on top of the arms in double cross arm construction for mounting insulator pins and deadending. Slotted holes allow mounting on different pole diameters.

Stock No.	Steel Size Inch	Length Inch	Mounting Hole		Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Bundle
			Hole	Slot		
D0400-01	4×1/2	24	13/16	13/16×3/12	563.00	5
D0400-02	4×1/4	17	11/16	11/16×3	210.00	10



E1

CLAMP, DEADEND, STRAIN, AL
Hot Dip Galvanized

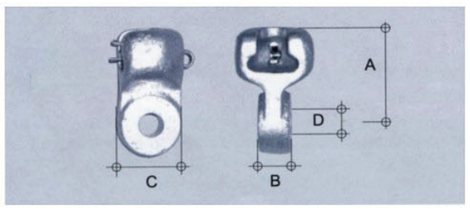
Clamp bodies and keeper pieces are cast in high strength aluminum alloy that is non-copper bearing. U-Bolts, Clevis Pin and associated components are steel. Cotter Keys are stainless steel.

Socket Eye and Clevis used as connectors are ductile iron of great strength and maybe ordered inclusive or separately from the clamp.

Ball Clevis is drop-forged steel. Shank diameter of ANSI Class 52-3 and 52-5 pin is consistent with ANSI insulator M&E strength ratings of 15,000 and 25,000 lbs. respectively.

STRAIN CLAMP

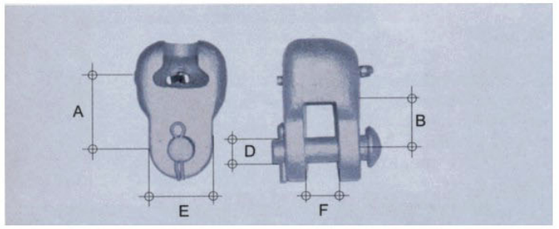
Stock No.	Connector Included		Conductor Dia. Inch		U-Bolt		Ultimate Strength lbs.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
	Type	Stock No.	Min.	Max.	No.	Size Inch			
E0147-01	Socket	E0212	0.20	0.47	2	1/2	7,000	153.00	25
E0147	none							100.00	25
E0160-01	socket	E0258	0.30	0.60	2	1/2	15,000	182.00	25
E0160	none							110.00	25
E0159-01	socket	E0258	0.20	0.59	3	1/2	15,000	191.00	25
E0159-02	clevis	E0259						130.00	25
E0159	none							380.00	12
E0186-01	socket	E0234	0.48	0.86	4	1/2	23,000	380.00	12
E0186-02	clevis	E0278						300.00	12
E0186	none							740.00	6
E01120-01	socket	E0225	0.71	1.20	5	5/8	30,000	580.00	6
E01120	none								



E2

SOCKET EYE
Malleable Iron

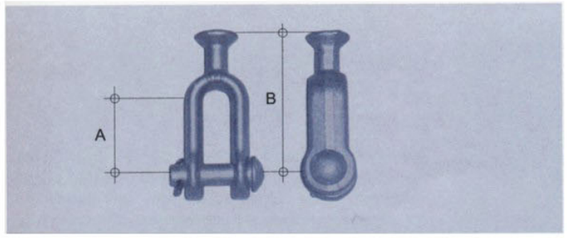
Stock No.	Ansi Class	Dimension Inch				Ultimate Strength lbs.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
		A	B	C	D			
E0212	52-3 only	2-1/8	1/2	1-3/4	11/16	16,000	53.00	50
E0258	52-3 only	2-1/8	5/8	1-5/8	11/16	16,000	72.00	40
E0234	52-3 & 52-5	2-1/8	3/4	1-3/4	11/16	25,000	81.00	40
E0278	52-3 & 52-5	2-1/8	7/8	1-5/8	11/16	25,000	81.00	40
E0225	52-3 & 52-5	3	1-1/4	2	11/16	30,000	104.00	35



E3

SOCKET CLEVIS
Malleable Iron

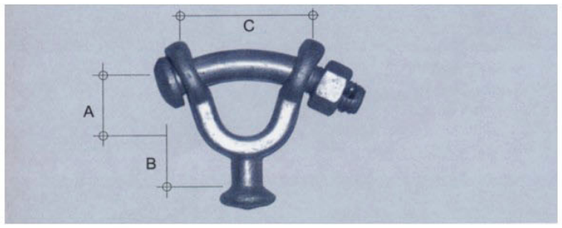
Stock No.	Ansi Class	Dimension Inch						Ultimate Strength lbs.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
		A	B	C	D	E	F			
E0310	52-3 only	2-1/8	7/8	3/4	5/8	1-1/2	13/16	18,000	80.00	30
E0311	52-3 & 52-5	2-5/8	1-5/16	7/8	5/8	1-3/4	13/16	30,000	120.00	30



E4

BALL CLEVIS
Drop Forged

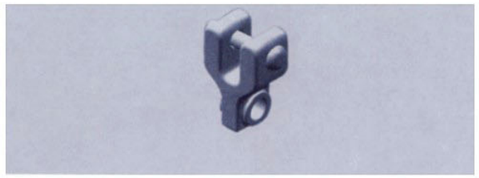
Stock No.	Ansi Class	Dimension Inch			Ultimate Strength lbs.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
		A	B	C			
E0458-01	52-3	2-1/2	4	5/8	30,000	56.30	35
E0458-02	52-3	2-1/2	4	23/32	30,000	56.35	35
E0458-03	52-3	2-1/2	3	5/8	30,000	48.10	35
E0458-04	52-3	2-1/2	3	23/32	30,000	48.15	35



E5

BALL Y CLEVIS
Drop Forged

Stock No.	Ansi Class	Dimension Inch			Ultimate Strength lbs.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
		A	B	C			
E0559	52-3	1-1/2	3-1/16	1-3/4	30,000	48.00	25

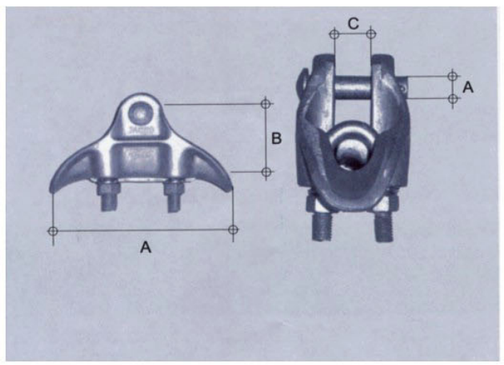


E6

CLEVIS EYE

Malleable Iron

Stock No.	Dimension Inch							Ultimate Strength lbs.	Approx. Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
	A	B	C	D	E	F	G			
E0613	2-1/2	5/8	1-3/4	11/16	7/8	13/16	1-1/8	20,000	65.00	40
E0614	2-5/8	7/8	1-1/2	11/16	7/8	13/16	1-1/16	25,000	70.00	40
E0615	3-1/8	5/8	1-5/8	11/16	7/8	13/16	1-1/12	30,000	75.00	40

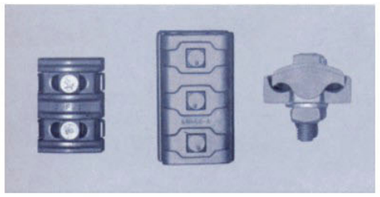


E7

CLAMP SUSPENSION CLEVIS

Aluminum Suspension Clamp bodies and keeper pieces are cast in high strength,heat-treated silicon aluminum alloy. Compatible with any aluminum or aluminum covered conductor. Ground wire Suspension Clamp bodies and keeper pieces are ductile iron cast of great strength.All ductile iron and steel parts are hot-dip galvanized.Cotter Keys are stainless steel.

Stock No.	Connector Included		Conductor Dia. Inch		Dimension Inch			U-Bolt Inch	Ultimate Strength lbs.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
	Type	Stock No	Min	Max	A	B	C				
ALUMINUM SUSPENSION CLAMP											
E0765-01	Socket	E0258	0.25	0.65	7	2-1/8	1-3/16	1/ 2	18,000	145.00	24
E0765	none									95.00	24
E0785-01	socket	E0234	0.40	0.85	7-1/2	2-2/4	7/8	1/ 2	18.000	165.00	24
E0785	none									114.00	24
E07117-01	socket	E0278	0.70	1.17	8	27/16	1-3/16	5/8	25,000	254.00	24
E07117	none									186.00	24
***GROUND WIRE SUSPENSION CLAMP, DUCTILE IRON**											
E0746-01	Socket	E0212	0.12	0.46	5-3/4	2-1/8	5/8	1/2	16,000	150.00	15
E0746	none									105.00	15
E0760-01	socket	E0258	0.20	0.60	6-3/4	2-1/4	11/16	1/2	16.000	180.00	15
E0760	none									132.00	15

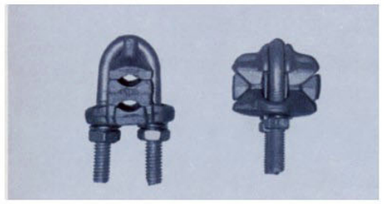


E8

PARALLEL CLAMP

VIC Parallel Groove Clamp is recommended for tap or parallel connectors. High strength, high conductivity aluminum body. Long contact surface provides excellent contact and assures conductivity.

Stock No.	Conductor				Figure No.	Dimension mm			Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
	Groove A		Groove B							
	ACSR	Copper	ACSR	Copper		L	H	W		
E0820	#2/0	#4/0	#2/0	#4/0	1	89	54	64	40.00	60
E0840	#4/0	#250	#4/0	#250	2	114	54	60	55.00	75
E08336	#336.4	#350	#336.4	#350	2	138	70	78	100.00	25

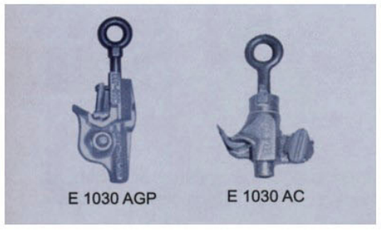


E9

CLAMP LOOP DEAD-END

High Strength Aluminum casting with galvanized steel U-Bolt, extra long soft aluminum spacer and caps that confine strands. Holding strength using two deadend clamps exceeds rated breaking strength of conductors.

Stock No.	Conductor		Dimension mm			Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
	Run A	Tap B	L	H	W		
E0961	#6-1/0 ACSR	#6-1/0 ACSR			38	6.25	300
E0962	#6 stranded 2/0 stranded aluminum	#6 stranded 2/0 stranded aluminum	52	47	77	14.30	100

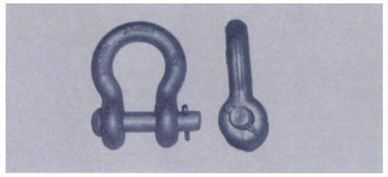


E10

CLAMP, HOT LINE

VIC Hot Line Clamps are cast with high conductivity aluminum alloy compatible with any aluminum or aluminum covered conductor. An enclosed compression spring on the eye screw thread in clamp run provides vibration resistant connections.

Stock No.	Type of Connection		Conductor Range				Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
			Run		Tap			
	Run	Tap	Diameter Inch	AWG/MCM	Diameter Inch	AWG/MCM		
E1030-AGP	Al	Al OR Cu	0.745-0.162	336.4-#6ACSR	0.547-0.162	#4/0-#6ACSR	30.00	50
E1030-AC	Al	Cu	0.447-0.198	#2/0-#6	0.398-0.198	#1/0-#6ACSR	25.00	100

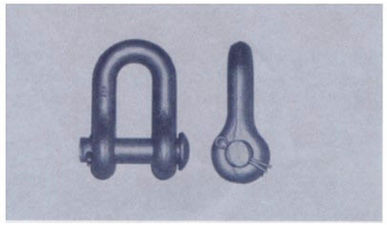


E11

ANCHOR SHACKLE

VIC Anchor and Chain Shackles are Drop forged steel and supplied with loose clevis pin and locked with stainless or hard brass cotter key.

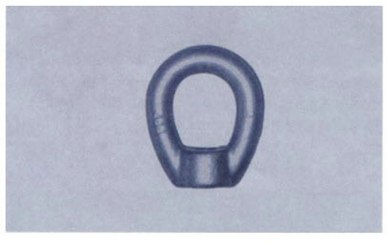
Stock No.	Dimension mm						Ultimate Strength lbs.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
	A	B	C	D	E	F			
E1112	52	12	18	12	32	12	10,000	20.00	60
E1116	69	16	27	16	40	16	25,000	75.00	50
E1119	89	19	22	19	44	19	35,000	99.00	40
E1122	89	22	28	19	44	22	60,000	104.00	30



E12

CHAIN SHACKLE

Stock No.	Dimension mm						Ultimate Strength lbs.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
	A	B	C	D	E	F			
E1201	76	22	35	25	52	22	35,000	130.00	20
E1202	60	16	27	19	38	16	40,000	140.00	20



E13

OVAL EYE NUT

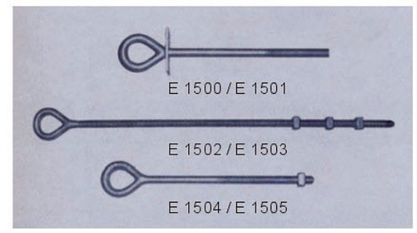
Oval Eye Nut and Bolt Eye Long are drop forged steel material and are used for deadending with suspension or strain insulator.

Stock No.	Bolt Dimension Inch	Dimension mm					Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
		A	B	C	D	E		
E1358	5/8	13.5	44.5	38	65	80	30.00	50
E1334	3 /4	13.5	44.5	38	65	80	30.00	50

E14

BOLT EYE LONG

Stock No.	Bolt Dia. Inch	Slotted Hole Inch	Dimension mm				Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
			A	B	C	D		
E1458	5/8	17×25	13.5	77	16	58	52.00	50
E1434	3 /4	21×26	13.5	77	16	58	52.00	50



E15

SHOULDER EYE BOLT

Hot Dip Galvanized

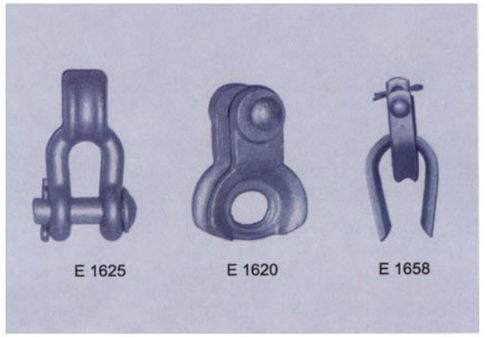
VIC Forged Oval Eye Bolts are used to attached Suspension Insulators and other pole line hardware to Cross arm and pole. Similarly they are commonly used for primary and deadend construction and for overhead guying.

Bolt Diameter Inch	Ultimate Strength, Min Kg.
5/8	5,680
3 /4	8,360

Bolt Diameter Inch	Thread Per Inch
5/8	11
3 /4	10

Stock No.	Dimension Inch						Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
	A	B	C	D	L	T		
SHOULDER EYE BOLT								
E1500-06	5/8	1-1/2	2	5/8	6	4	66.50	15
E1500-08	5/8	1-1/2	2	5/8	8	4	73.20	15
E1500-10	5/8	1-1/2	2	5/8	10	6	79.80	10
E1500-12	5/8	1-1/2	2	5/8	12	6	86.40	10
E1501-08	3/ 4	1-1/2	2	3/4	8	4	102.50	10
E1501-10	3/ 4	1-1/2	2	3/4	10	6	112.20	10
E1501-12	3/ 4	1-1/2	2	3/4	12	6	121.50	10
DOUBLE ARMING EYE BOLT								
E1502-12	5/8	1-1/2	2	5/8	12	10	75.00	30
E1502-14	5/8	1-1/2	2	5/8	14	12	80.00	30
E1502-16	5/8	1-1/2	2	5/8	16	14	86.00	30
E1503-12	3/ 4	1-1/2	2	3/4	12	10	117.60	25
E1503-14	3/ 4	1-1/2	2	3/4	14	12	127.20	25
E1503-16	3/ 4	1-1/2	2	3/4	16	14	136.50	25
OVAL EYE BOLT								
E1504-08	5/8	1-1/2	2	5/8	8	4	66.00	35
E1504-10	5/8	1-1/2	2	5/8	10	6	69.50	30
E1504-12	5/8	1-1/2	2	5/8	12	6	78.50	30
E1505-08	3/ 4	1-1/2	2	3/ 4	8	4	96.50	30
E1505-10	3/ 4	1-1/2	2	3/ 4	10	6	105.50	20
E1505-12	3/ 4	1-1/2	2	3/ 4	12	6	114.50	25

E16



THIMBLE CLEVIS
Hot Dip Galvanized

VIC Thimble Clevises are used for deadening conductors to Suspension Insulators. The groove diameter will fit the eyes of standard Eyebolt up to and including 3 /4 inch diameter.

The E1658 is made of gauge #8 steel U-clevis and 5/8 inch closed guy thimble, gauge #10.

The E1620 is made of malleable iron with notches to facilitate tying in conductors.

DROP FORGED

Stock No.	Pin Diameter Inch	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
E1625	1/ 2	47.50	50.00
E1626	5/8	50.00	50.00

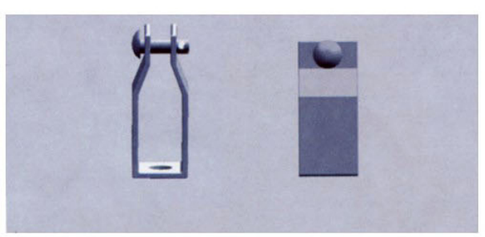
PRESS STEEL, 2–PIECE

Stock No.	Pin Diameter Inch	Clevis Opening Inch	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
E1658	5/8	1	40.00	45

MALLEABLE IRON

Stock No.	Pin Diameter Inch	Clevis Opening Inch	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
E1620	5/8	1	58.00	35.00

E17

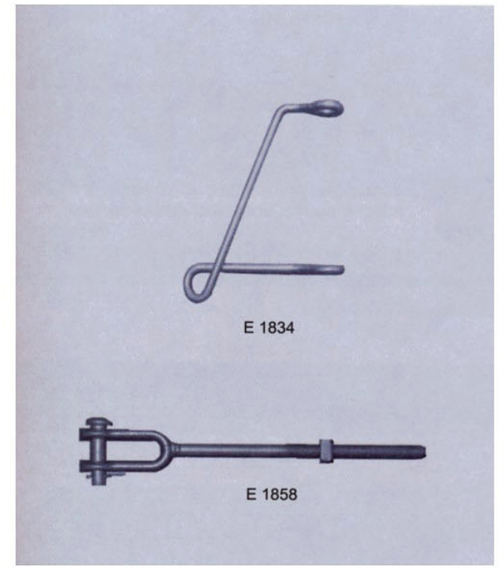


EYE CLEVIS DEAD-END
Hot Dip Galvanized

VIC Eyelet Clevises are used under a bolt or nut for deadending insulator.

Stock No.	Width	Gauge	Bolt Diameter	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
E1711	1-1/2	3/16	5/8	72.00	300
E1712	2	1/4	3 /4	81.50	100

E18



ANGLE BRACKET

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

The E1800 and E1801 bracket clips are mounted directly to either steel or wood pole or cross arm with a 3/ 4 inch machine bolt and 7/8 inch cotter bolt respectively.

DROP FORGED

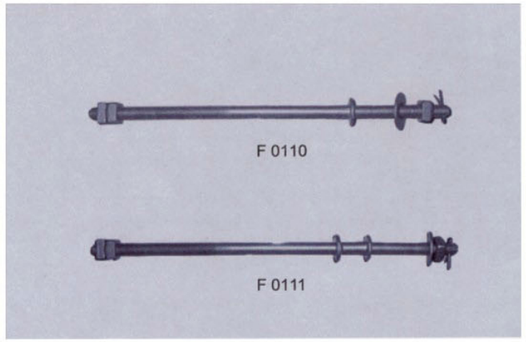
Stock No.	Description	Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
E1800A	Welded Bracket with Clip only	345.00	5
E1800B	Welded Bracket only	245.00	5
E1800-01	Clip only	51.50	5
E1801	Welded Bracket with Clip only	161.20	5

CLEVIS BOLT MOUNTED STYLE BRACKET

Stock No.	Rod Diameter Inch	Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
E1834	3/4	236.00	5

CLEVIS BOLT

Stock No.	Rod Diameter Inch			Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
	A	L	T		
E1858-08	5/8	8	4	68.00	20
E1858-10	5/8	10	4	78.00	20
E1858-12	5/8	12	6	87.00	20
E1858-14	5/8	14	6	95.00	20
E1858-16	5/8	16	6	102.00	20



F1

SPOOL BOLT
Hot Dip Galvanized

VIC Spool Bolts are used either to support neutral conductor in single phase to three phase cross arm construction or secondary service wire.

These Spool Bolts are forged from open-hearth carbon steel with either a single phase or double integral washer upset at the insulator end.

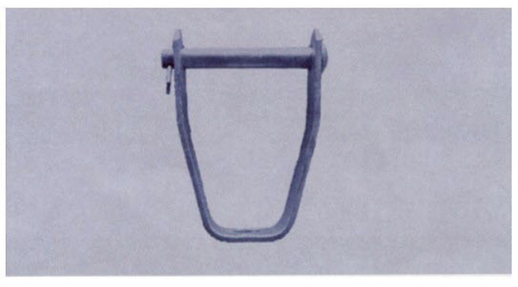
Rolled thread and are furnished complete as illustrated.

SINGLE UPSET BOLT, 5/8"

Stock No.	Rod Diameter Inch			Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
	L	A	B		
F0110-08	8	12-1/2	4	63.00	35
F0110-09	9	13-1/3	4	68.00	30
F0110-10	10	14-1/2	4	60.00	30
F0110-12	12	16-1/2	6	80.00	30
F0110-14	14	18-1/2	6	90.00	35

DOUBLE UPSET BOLT, 5/8"

F0111-08	8	14	4	73.00	30
F0111-09	9	15	4	77.00	30
F0111-10	10	16	4	65.00	35
F0111-12	12	18	6	72.00	35
F0111-14	14	20	6	80.00	35



F2

CROSS ARM CLEVIS
Hot Dip Galvanized

VIC Cross Arm type Clevises are used on the end of single spool bracket bolt for right angle pull-off in rural line neutral line constructors.

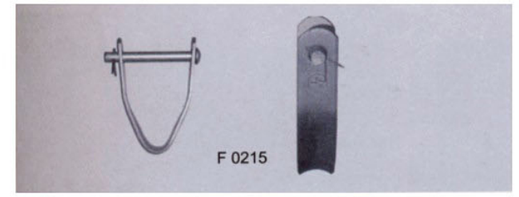
Secondary Swinging Clevis is used for attaching to oval eye bolt or eye nut giving a flexible mounting for equalizing strain at corners.

DEADEND CLEVIS

Stock No.	Clevis Opening mm	Ansi Insulator	Dimension mm	Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
F0213	85.7	53-2 & 53-3	126	49.00	50

DEADEND SERVICE CLEVIS

F0214	60	53-1	106	42.00	50



F3

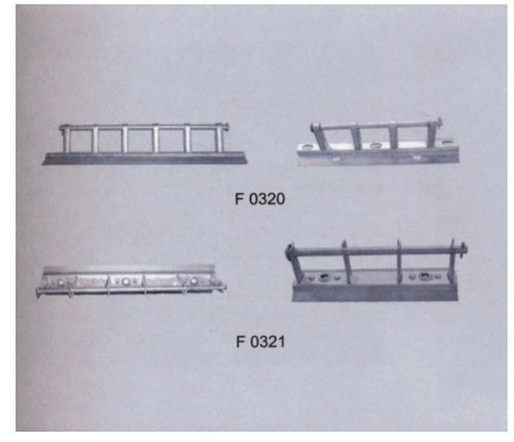
SECONDARY CLEVIS
Hot Dip Galvanized

SECONDARY SWINGING CLEVIS

Stock No.	Dimension mm					Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
	A	B	C	D	E		
F0215	126	16	38	88	4.5	60.00	50

SERVICE SWINGING CLEVIS

Stock No.	Dimension mm					Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
	A	B	C	D	E		
F0216	68	9.5	19	60	4.5	17.00	200



F4

SECONDARY RACK
Hot Dip Galvanized

VIC Secondary Rack comes in three different class and type of application; either single, two or three spool type for light, medium and heavy duty class respectively.

Insulator post struts are rounded to assure it will not damage insulation when stringing secondary. Struts are electricity arc welded and riveted for heavy and medium duty class respectively.

ANSI class 52-3 and 52-2 insulator will fit the heavy and medium duty rack respectively.

SECONDARY RACK, HEAVY DUTY (EXTENDED BACK)

Stock No.	No. Of Wire mm	Wire Spacing mm	Length mm	Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
F0320-H3	3	200	605	360.00	5
F0320-H2	2	200	450	204.00	5

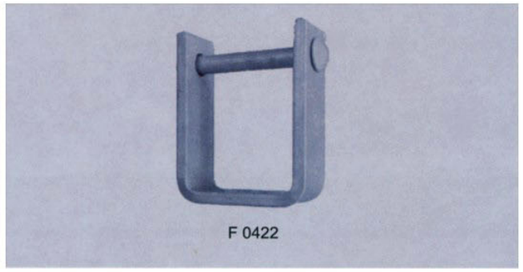
SECONDARY RACK, MEDUIM DUTY

F0321-M3	3	200	524	250.00	5
F0321-M2	2	200	340	160.00	5

SECONDARY RACK, LIGHT DUTY

F0321-L3	3	200	524	250.00	5
F0321-L2	2	200	340	160.00	5

F5

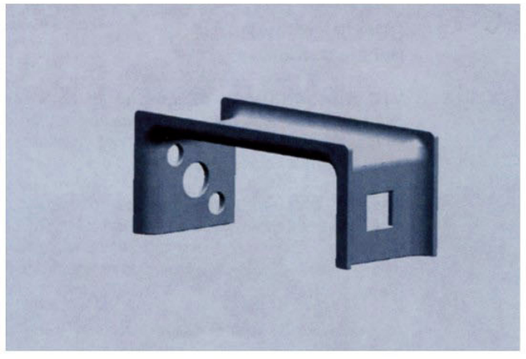


SINGLE SPOOL,
SECONDARY RACK
Hot Dip Galvanized

VIC Single Spool, Secondary Rack are designed for use both as stringing pulley on deadend / corner run and as secondary clevises, making them especially useful for stringing and sagging conductors.

Stock No.	Description	Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
F0422	Flat steel per ASTM A36	125.00	15

F6



SECONDARY RACK,
EXTENSION RACKET
Hot Dip Galvanized

VIC Rack Extension Bracket comes complete with a 5/8×2 Cariage bolt for attaching the rack. Two brackets are required for installation. The bracket will provide additional clearance between secondary rack and the pole surface.

The 4.5mm gauge × 1-1/4 inch wide steel bracket back is curved to fit the pole and has three staggered hole for 5/8 inch bolt or two 1/2 inch lag screw for mounting.

Stock No.	Description	Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
F0523-01	150	50.50	40
F0523-02	225	65.50	35

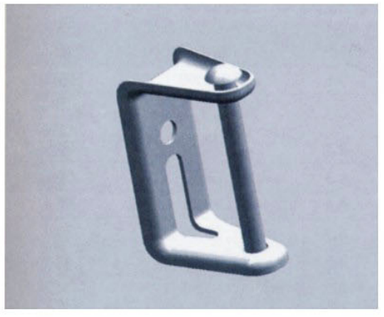
F7

SECONDARY BRACKET
Hot Dip Galvanized

VIC secondary bracket is used for secondary line deadends or line pull. It has a mouting hole for one 5/8 inch machine bolt and two staggered side holes for 1/2 inch lag screw.

Stock No.	Description	Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
F0610	For use with ANSI insulators class 53-2,53-3,&53-4	60.00	10

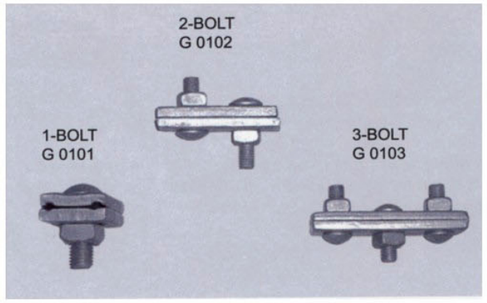
F8



SECONDARY PULLEY
BRACKET
Hot Dip Galvanized

These Secondary Pulley Brackets used in the downright pulley position for stringing of secondary line conductors. The 90 degree slot in the base make it possible to rotate the bracket into the clevis position before or after the conductor is tied to the spool.

Stock No.	Clevis Opening	Width	Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
F0710	For use with ANSI insulators class 53-2	66	67.00	25



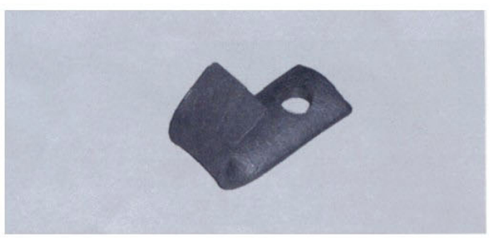
G1

GUY CLAMP

VIC Guy Clamp is used to secure / hold the ends of the guy strand wires. Clamps are shipped with bolts assembled, and clamping bolts have oval shoulder to prevent turning when nuts are tightened.

VIC heavy duty clamps are drop forged from basic open hearth carbon steel material with straight parallel groove.

Stock No.	No. of Bolt	Bolt Diameter Inch	Clamp Dimension mm			Approximate Ship Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
			Length	Width	Thickness		
HEAVY DUTY–DROP FORGED							
*G0101-H1	1	1/2	42	44	9.1	30.50	50
*G0101-H2	1	5/8	50	44	9.1	35.00	50
*G0102-H1	2	1/2	62	44	9.1	60.00	50
*G0102-H2	2	5/8	70	44	9.1	64.50	50
*G0103-H1	3	1/2	100	44	9.1	103.50	40
G0103-H2	3	5/8	152	44	9.1	122.00	30
LIGHT DUTY–PRESS FORGED							
G0101-L1	1	1/2	42	44	8.3	24.40	50
G0101-L2	1	5/8	50	44	8.3	28.50	50
G0102-L1	2	1/2	62	44	8.3	48.40	50
G0102-L2	2	5/8	70	44	8.3	52.00	50
G0103-L1	3	1/2	100	44	8.3	83.00	40
G0103-L2	3	5/8	152	44	8.3	97.50	30

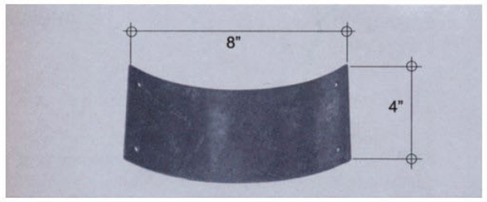


G2

GUY HOOK
Hot Dip Galvanized

VIC Guy Hook is used to prevent guy wire strand from slipping on the pole. The half oval side of clamp prevents damage to the guy stand.

Stock No.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
G0205	Press steel	50
G0206	43	60



G3

GUY STRAIN PLATE
Hot Dip Galvanized

VIC Guy Strain plate are used simultaneously with guy hook to provide a wide bearing surface for the strand during wrapped around installation.

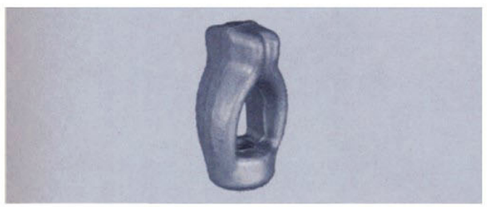
Stock No.	Approximatel Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
G0348	40.00	60

G4

GUY CLIP
Hot Dip Galvanized

VIC Guy Clips comes either with forged steel or malleable iron base. It is the most economical way of securing down guy and a clamping piece to clamp ground wire to ground rod.

Stock No.	Strand Size Inch	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
G04516	5/16	8.65	200
G0438	3/8	13.60	200
G0412	1/2	22.00	100
G0458	5/8	27.30	100
G0434	3/4	41.00	50



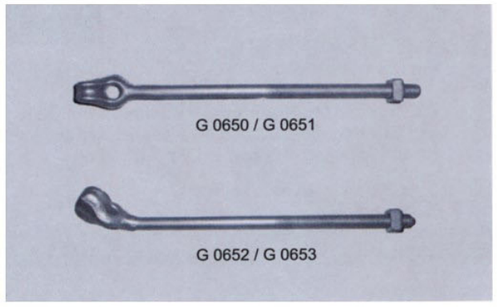
G5

THIMBLE EYE NUT
Hot Dip Galvanized

VIC Eye Nuts are forged from basic open hearth carbon steel tapped to fit HDG bolts made to ANSI specification with relative strength rating consistent with the bolt where they are installed.

Stock No.	Bolt Diameter Inch	Strand Size Inch	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
THIMBLE EYE NUT				
G0531-58	5/8	1/2	40.00	100
G0531-34	3/4	1/2	40.00	100
***TWIN EYE NUT**				
G0532-58	5/8	1/2	83.50	30
G0532-34	3/4	1/2	79.10	30

G6



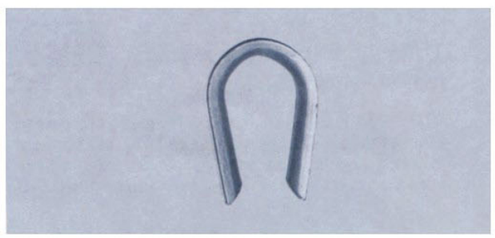
FORGED THIMBLE
EYE BOLT
Hot Dip Galvanized

VIC Thimble Eye Bolts are forged from rolled bars open hearth carbon steel with the same strength of machine bolt manufactured in accordance with ANSI standards. C135.1-79.

Eye dimension is the same as shown on page G7 for thimble eye anchor rod.

Straight Type		Angle Type		Dimension			Thread Per Inch	Standard Pkg. Qty./ Carton
Stock No.	Approx.Shipping Weight kg./100 Pcs.	Stock No.	Approx.Shipping Weight kg./100 Pcs.	D	L	T		
G0650-08	52.50	G0652-08	52.50	5/8	8	4	11	30
G0650-10	55.00	G0652-10	58.00	5/8	10	4	11	30
G0650-12	65.00	G0652-12	65.00	5/8	12	6	11	30
G0650-14	70.00	G0652-14	75.00	5/8	14	6	11	30
G0650-16	77.00	G0652-16	81.00	5/8	16	6	11	30
G0651-10	80.00	G0653-10	90.00	3/4	10	4	10	25
G0651-12	90.00	G0653-12	100.00	3/4	12	6	10	25
G0651-14	100.00	G0653-14	110.00	3/4	14	6	10	25
G0651-16	113.00	G0653-16	113.00	3/4	16	6	10	25

G7

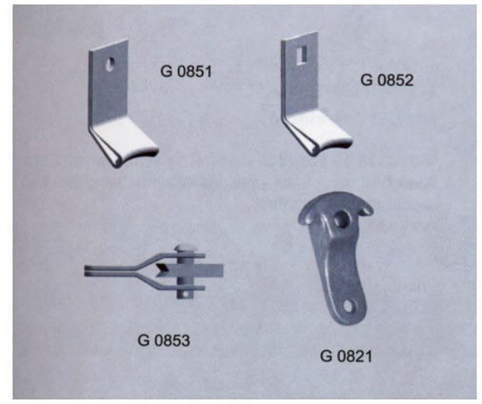


GUY THIMBLE
Hot Dip Galvanized

VIC Guy Thimble has open ends for use with oval eyebolt in guying assemblies.

Stock No.	Strand Size Inch	Dimension mm			Thickness mm	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
		A	B	L			
G0750-38	3/8	20	30	55	3.0	10.00	250
G0750-12	1/2	25	40	80	3.0	12.40	150
G0750-58	5/8	35	50	90	3.0	15.00	150

G8



GUY ATTACHMENT
Hot Dip Galvanized

VIC Guy Attachment provides an economical and efficient means of fastening guy to pole, either steel or wood poles.

The press formed steel guy attachment has a well rounded strand groove that would protect the strand from damage.

The G0851 are used with 4 inch wide universal pole band.

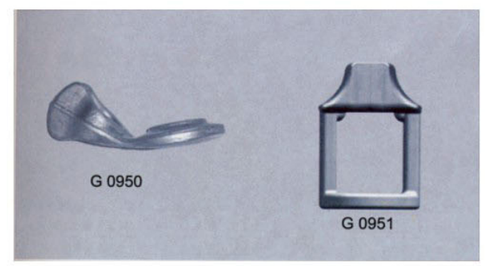
PRESS FORMED STEEL

Stock No.	Steel Size mm	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
G0851	75×6	145.00	50
G0852	50×6	71.00	50
G0853	44×6	147.00	20

DROP FORGED

Stock No.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
G0821	47.50	50

G9



GUY ATTACHMENT
Hot Dip Galvanized

VIC Eyelet are drop forged from rolled basic open hearth steel and compatible with the strength of the bolts used with them.

Angle Thimble Eyelet are used for down guys and straight thimble eyelet is used for span guys.

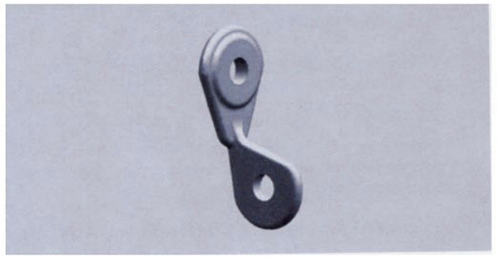
ANGLE THIMBLE EYELET

Stock No.	Bolts Diameter Inch	Strand Size Inch	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
G0950-58	5/8	1/2	60.00	50
G0950-34	3/4	1/2	60.00	50

*STRAIGHT THIMBLE EYELET

G0951-58	5/8	1/2	61.50	50
G0951-34	1/2	1/2	59.10	50

G10

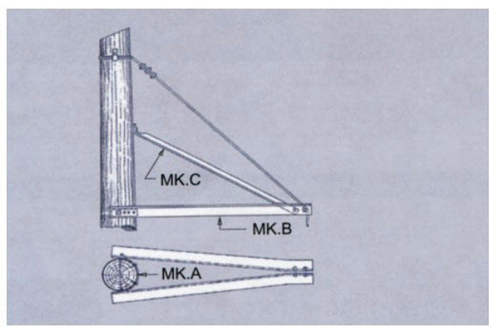


GUY ATTACHMENT
STRAIN INSULATOR
Hot Dip Galvanized

VIC G1052 forged steel Guy Attachment are designed for direct pole installation for glass and wood strain insulators.

Stock No.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
G1052	34.50	75

G11



TRUSS GUY
Hot Dip Galvanized

VIC Distribution Truss Guy are used where normal gripings techniques cannot be used making the pole to be self-supporting.

LIGHT GUYING

Extension From Pole, Inch(mm)	Stock No./ Set Order	Component Part		Angle Bar Aize mm	
		Angle Arm Make"B"	Angle Arm Make"C"	Make"B"	Make"C"
24(610)	G1124L	G1101-01	G1104-01	50×50×6	38×38×5
36(914)	G1136L	G1101-02	G1104-02	50×50×6	50×50×5
48(1,219)	G1148L	G1102-03	G1104-03	75×75×5	50×50×5

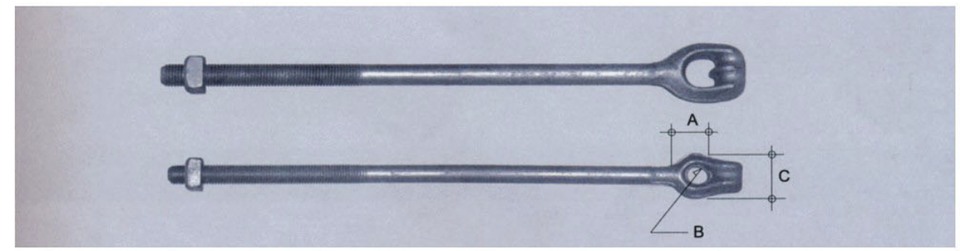
HEAVY GUYING

36(914)	G1136H	G1102-05	G1104-04	75×75×5	50×50×5
48(1,219)	G1148H	G1105-06	G1104-05	100×100×6	50×50×6
54(1,370)	G1154H	G1105-07	G1104-06	100×100×7	50×50×6

G12

ANCHOR ASSEMBLE
Hot Dip Galvanized

VIC forged thimble eye, Twin Eye and Triple Eye Anchor Rods are used for guying with expanding, cross plate, cone and screw anchors as well as anchor log assemblies.

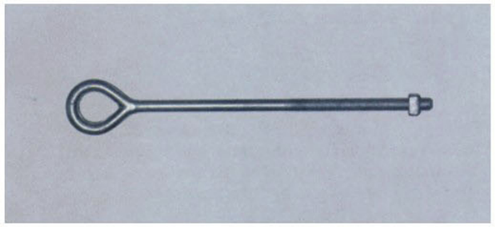


EYE DIMENSION

Rod Diameter Inch	Thimble Eye mm			Twin Eye mm			Triple Eye mm		
	A	B	C	A	B	C	A	B	C
5/8	18	14	38	24	6	46	40	6	67
3/4	21	18	41	25	6	50	40	6	69
1	28	24	50	32	8	60	40	6	75

D Inch	Length Ft.	TPI	Thimble Eye			Twin Eye			Triple Eye		
			S/No.	Approx. Ship wt. Kg./100	Std. Pkg. Qty./ Bdl.	S/No.	Approx. Ship wt. Kg./100	Std. Pkg. Qty./ Bdl.	S/No.	Approx. Ship wt. Kg./100	Std. Pkg. Qty./ Bdl.
5/8	6	11	G1258-06	270.00	5	G1258E-06	272.00	5	ϕ	ϕ	ϕ
	7		G1258-07	310.00	5	G1258E-07	312.00	5	ϕ	ϕ	ϕ
	8		G1258-08	340.00	5	G1258E-08	351.00	5	ϕ	ϕ	ϕ
	9		G1258-09	388.00	5	G1258E-09	390.00	5	ϕ	ϕ	ϕ
3/4	6	10	G1234-06	387.00	5	G1234E-06	396.00	5	G1234E2-06	412.00	5
	7		G1234-07	443.00	5	G1234E-07	453.00	5	G1234E2-07	476.00	5
	8		G1234-08	501.00	5	G1234E-08	510.00	5	G1234E2-08	530.00	5
	9		G1234-09	559.00	5	G1234E-09	567.00	5	G1234E2-09	608.00	4
	10		G1234-10	616.00	5	G1234E-10	624.00	5	G1234E2-10	670.00	4
1	8	8	G1210-08	935.00	5	G1210E-08	973.00	3	ϕ	ϕ	ϕ
	9		G1210-09	1,056.00	5	G1210E-09	1,090.00	3	ϕ	ϕ	ϕ
	10		G1210-10	1,168.00	5	G1210E-10	1,207.00	3	ϕ	ϕ	ϕ

G13

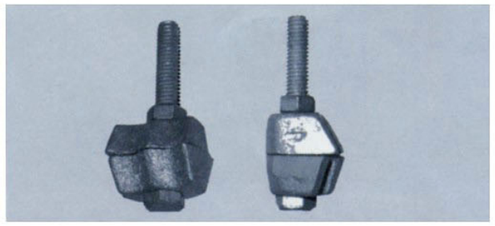


ANCHOR ASSEMBLE
Hot Dip Galvanized

OVAL EYE ANCHOR ROD

Diameter Inch	Length Feet	Stock No.	TPI	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
5/8	6	G1358-06	11	260.00	5
	7	G1358-07		310.00	5
	8	G1358-08		350.00	5
3/4	7	G1334-07	10	398.00	5
	8	G1334-08		456.00	5
	9	G1334-09		512.00	5

G14

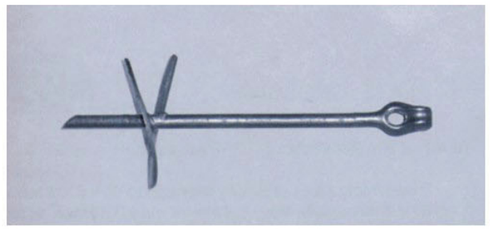


GUY BONDING CLAMP
Hot Dip Galvanized

VIC Guy Bonding Clamps are used when down guy also serves as ground. It maintains a firm contact between the guy strand and the anchor rod.

Rod Diameter D Inch	Single Eye Stock No.	Twin Eye Stock No.
5/8	G1458	G1458E
3/4	G1434	G1434E
1	G1411	G1411E

G15

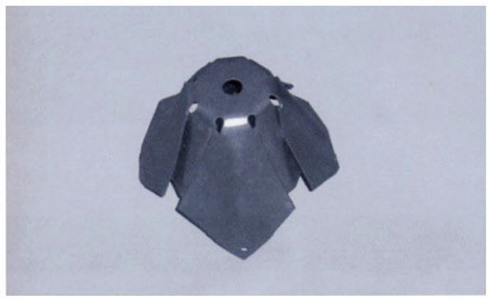


FORGED EYE SHAFT
SCREW ANCHOR
Hot Dip Galvanized

VIC Forged Eye Shaft Screw Anchors can be installed manually by inserting a bar through the eye and screwing the anchor down. The eye dimension is the same as given on item G15.

Shaft Diameter Inch	Length Feet	Helix Diameter Inch	Thimble Eye		Twin Eye		Triple Eye	
			S/No.	Approx. Ship wt. Kg./100	S/No.	Approx. Ship wt. Kg./100	S/No.	Approx. Ship wt. Kg./100
3/4	6	6	G1501-06	474.00	G1504-06	464.00	G1507-06	ϕ
	7		G1501-07	530.00	G1504-07	540.00	G1507-07	ϕ
	8		G1501-08	588.00	G1504-08	598.00	G1507-08	ϕ
	6	8	G1502-06	543.00	G1505-06	552.00	G1508-06	568.00
	7		G1502-07	598.00	G1505-07	609.00	G1508-07	632.00
	8		G1502-08	657.00	G1505-08	665.00	G1508-08	685.00
1	7	8	G1503-07	918.00	G1506-07	1,012.00	G1509-07	ϕ
	8		G1503-08	1,091.00	G1506-08	1,129.00	G1509-08	ϕ
	9		G1503-09	1,212.00	G1506-09	1,245.00	G1509-09	ϕ
	10		G1503-10	1,324.00	G1506-10	1,362.00	G1509-10	ϕ

G16



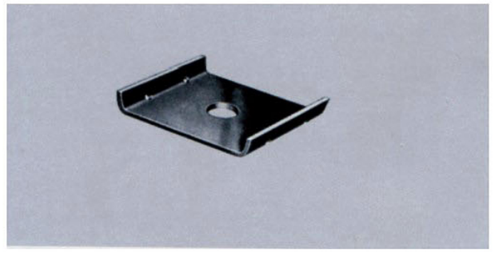
ANCHOR EXPANDING
8-WAY
Hot Dip Galvanized

VIC eight point top plate blade expands with the base plate upon screwing the anchor rod down to form a cone shaped square which distribute the anchor's holding power into the ground.

*Assembly does not include the anchor rod.

Stock No.	Base Plate Inch	Rod Diameter Inch	Area Expand Top Plate Sq. Inch	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
G1658-06	6	5/8	64	231.00	5
G1658-07	7	5/8	92	310.00	5
G1658-08	8	5/8	135	390.00	5
G1634-08	8	3/4	135	435.00	5
G1611-08	8	1	135	435.00	5

G17

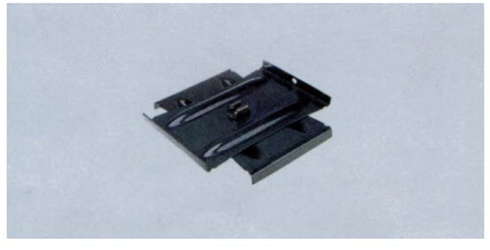


PLATE, CROSSARM, REINFORCING
Hot Dip Galvanized

Reinforcing plate prevents damage to 4″×5″or wood 6″×8″ crossarm from tightened nuts. The design has a pressed rib and is normally used on the side of the crossarm.

Stock No.	Crossarm Size	Hole Diameter(s)	Steel Size	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
G1745	4″ ×5″	13/16″	3/16″	74.00	25
G1768	6″ ×8″	15/16″	1/4″	123.00	25

G18



CROSS-PLATE ANCHOR
Hot Dip Galvanized

Cross-plate anchor for 16″ (406mm) hole used with 0.625″ (15.9mm) or 0.75″ (19.1mm) diameter rod

Stock No.	Anchor Style	Rod Diameter-Order Separately	Anchor Hole Size	Area	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
G1816	Bust Anchor, Expanding Anchor	0.625″ (15.9mm) 0.75″ (19.1mm)	16″ (406mm)	150 sq in (968 sq cm)	463.00	6

H1

GROUND RODS
Hot Dip Galvanized

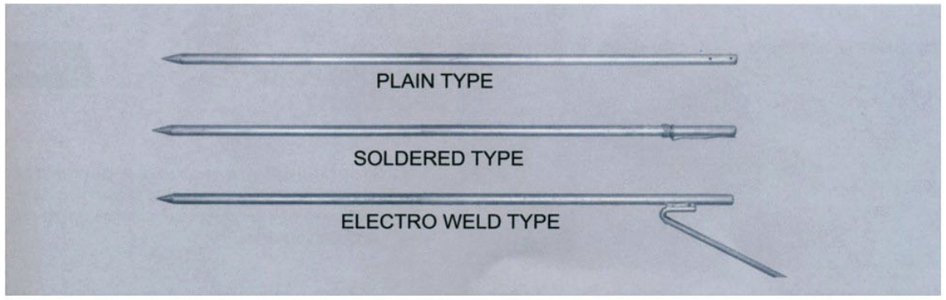
VIC ground rod comes in three different types of various diameter and length and has a cone point for easy driving.

The plain rods are used with ground rod clamps for proper electrical contact.

The soldered type has five turns of #12 soft annealed copper wire soldered at the upper end.

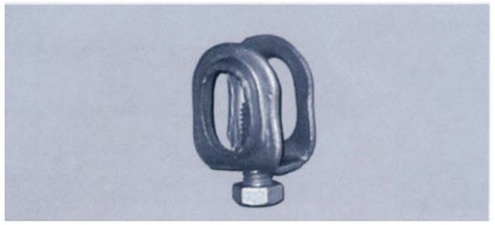
The electro-weld type has a 3/8 Inch round bar welded to the upper end portion of the rod.

Length and distance of pigtail from upper end of the rod.



Rod Size D Inch	Length L Feet	Plain Type			Soldered Type			Electro-Weld Type		
		S/No.	Approx. Ship wt. Kg./100	Std. Pkg. Qty./ Bdl.	S/No.	Approx. Ship wt. Kg./100	Std. Pkg. Qty./ Bdl.	S/No.	Approx. Ship wt. Kg./100	Std. Pkg. Qty./ Bdl.
1/2	3	H0111-03	78.20	10	H0112-03	78.20	10	**H0113-03**	**103.00**	**10**
	4	H0111-04	104.50	10	H0112-04	104.50	10	**H0113-04**	**129.00**	**10**
	5	H0111-05	130.50	10	H0112-05	130.50	10	**H0113-05**	**154.00**	**10**
	6	H0111-06	156.50	10	H0112-06	156.50	10	**H0113-06**	**180.00**	**10**
5/8	5	H0115-05	197.50	10	H0116-05	197.50	10	**H0117-05**	**221.00**	**5**
	6	H0115-06	236.00	10	H0116-06	236.00	10	**H0117-06**	**260.00**	**5**
	8	H0115-08	315.00	5	H0116-08	315.00	5	**H0117-08**	**340.00**	**5**
	10	H0115-10	394.00	5	H0116-10	394.00	5	**H0117-10**	**415.00**	**5**
3/4	7	H0120-07	399.00	5	H0121-07	399.00	5	**H0122-07**	**421.00**	**5**
	8	H0120-08	456.00	5	H0121-08	456.00	5	**H0122-08**	**480.00**	**5**
	10	H0120-10	570.00	5	H0121-10	570.00	5	**H0122-10**	**590.00**	**5**

H2

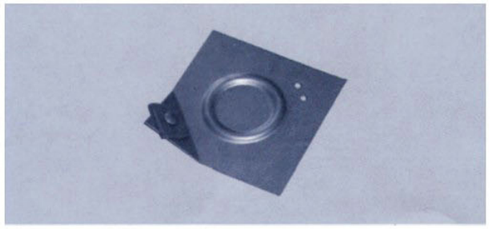


GROUND ROD
CLAMP
Hot Dip Galvanized

VIC steel clamps are used with galvanized and copper clad ground rods. Furnished with a 3/8 inch cap screw.

Stock No.	Rod Diameter Inch	Wire Size With Rod	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
H0212	1/2	3/0 to 8	3.50	200t
H0258	5/8	1/0 to 14	6.25	200

H3

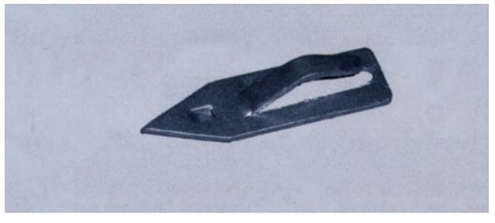


GROUND PLATE
POLE BUTT
Hot Dip Galvanized

VIC Grounding Plate features a galvanized steel clamp for galvanized iron grounding wire. The embossed ring on the plate assures a firm and positive contact with earth.

Stock No.	Plate Size mm	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
H0340	#16 gange×187.5×187.5	66.00	40

H4



GROUND WIRE
CLIP
Hot Dip Galvanized

VIC Ground Wire Clips are used in lien of ground wire staples. Made from 16 gauge steel plate.

Stock No.	Dimension mm		Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
	L	W		
H0410	64	18	10.00	1,000

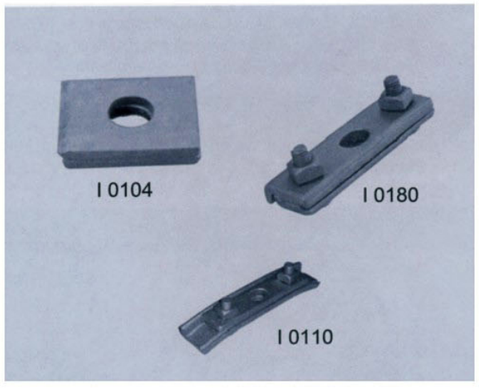
H5

STAPLE GROUND WIRE
Hot Dip Galvanized

VIC Staple Ground Wire is used to secure ground wire to wood pole.

Stock No.	Plate Size mm	Approximate Shipping Weight kg./100 Pcs.	Standard Packaging Qty./ Carton
H0580	2×1/2×0.158(50×12×4mm)	80.00	2,000

I1

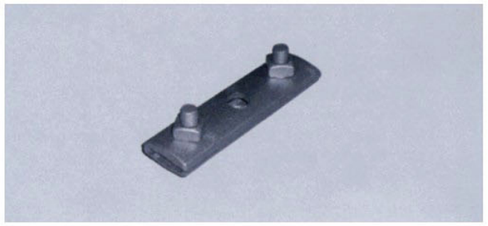


CABLE SUSPENSION
CLAMP
Hot Dip Galvanized

VIC Drop Forged Suspension Clamp is made from hot rolled open hearth steel used to securely grip messenger wire.

The I0110 and I0180 are furnished with 2-1/2 Inch track bolts and a center hole for mounting with an 5/8 Inch bolt.

Stock No.	No.of Bolts	Clamp Bolts Diameter Inch	Clamp Length mm	Mtg.Hole Dia. mm	Strand Diameter mm	Approx. ShipWt. Kg./ 100 Pcs.	Standard Packaging. Qty./ Carton
I0110	3	1/2	188	18×23	6 to 11	100.00	35
I0180	3	1/2	144	18×23	6 to 11	80.00	35



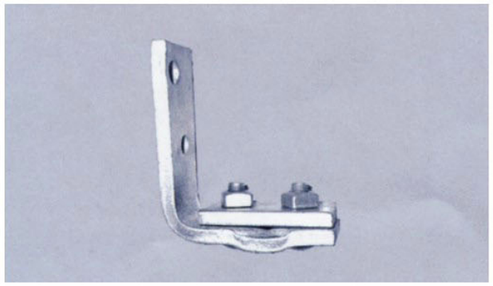
I2

FIGURE 8
SUSPENSION CLAMP
Hot Dip Galvanized

VIC Drop Forged type Figure 8 Clamp are used to securely grip the messenger wire over the insulation without damage to the insulation web of the integrated messenger telephone distribution wire.

Furnished with two 1/2 Inch track bolt.

Stock No.	No.of Parts	Clamp Blot Dia.Inch	Dimension mm		Mtg.Hole Dia. Inch	Approx. Ship Wt. Kg./100 Pcs.	Standard Pkg. Qty./ Carton
			Length	Width			
I0260	3	1/2	152	42	5/8	60.00	40



I3

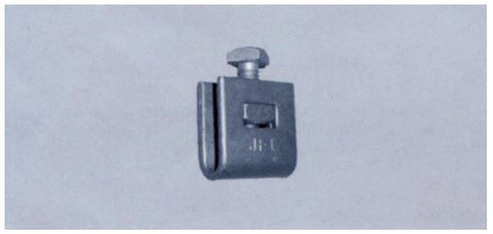
CABLE MESSENGER
HANGER
Hot Dip Galvanized

The VIC Cable Messenger Hanger is press forged from 1/2×2 Inch open hearth steel and are used on corner and straight runs installation.

Furnished with two 1/2 Inch track bolts.

Mounting holes are for 1/2 Inch lag screw and 5/8 Inch machine bolt.

Stock No.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
I0315	147.50	20

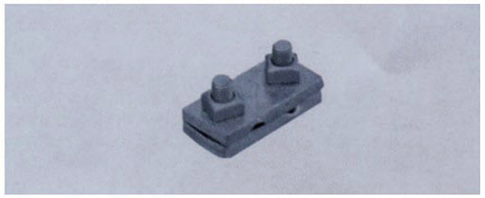


I4

GROUND STRAND
CLAMP
Hot Dip Galvanized

The VIC I0417 body is made of 1-3/4×3/16 Inch steel plate with a keeper inside riding on the end of the bolt. The clamp is used to bond the cable sheath to the messenger strand.

Stock No.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
I0417	30.00	100



I5

CROSSOVER CLAMP
Hot Dip Galvanized

The VIC Cross Over Clamp is used to clamp two messenger wires where they cross at right angles.

Two 1/2 Inch diameter track bolts are furnished with the clamp.

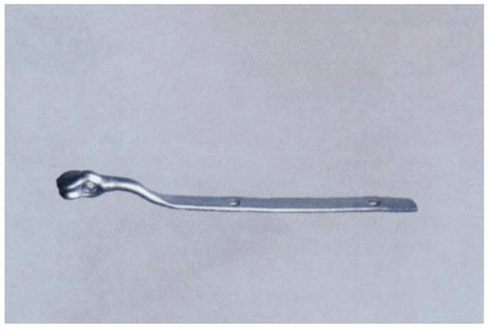
Stock No.	Dimension mm			Approximate Shipping Weight Kg./100 Pcs.	Standard Pkg. Qty./ Carton
	Length	Width	Thick		
I0560	83	38	12	60.00	35

I6

CABLE REINFORCING
LINK
Hot Dip Galvanized

The VIC Reinforcing Links are used in conjunction with cable suspension clamp to relieved side strains resulting at corners of messenger lines.

Stock No.	Steel Diameter Inch (mm)	Length Inch (mm)	Approximate Shipping Weight Kg./100 Pcs.	Standard Pkg. Qty./ Carton
I0653	1/2(12)	8-3/8(213)	53.00	50



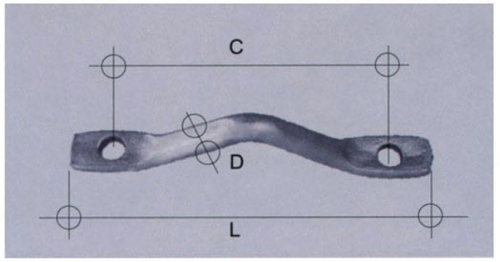
I7

WALL STRAP GUY
EYE TYPE
Hot Dip Galvanized

The VIC Wall Straps are made from hot rolled basic open hearth steel and are used for guying and deadending messenger strand to building wall.

Wall strap comes with a forged thimble eye and has two or three mounting holes each at spaced 8 Inch from center to center.

Stock No.	Mtg.Hole Dia.mm	No.of Mtg.Hole	Dimension mm					Approximate Ship Weight Kg./100 Pcs.	Standard Pkg. Qty./ Carton
			L	T	W	C	D		
I0701	14	2	422	8	34	203	18	104	25
I0702	14	3	610	8	34	203	18	150	20

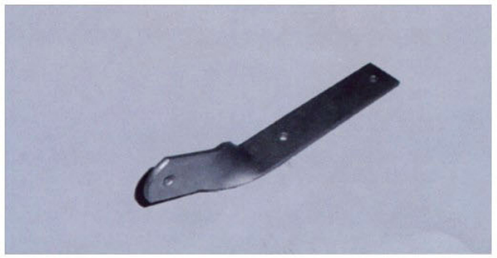


I8

WALL STRAP LOOP TYPE
Hot Dip Galvanized

The VIC I0836 formed as shown from 16mm diameter hot rolled basic open hearth steel is used to terminate strand at right angle to the building wall.

Stock No.	Mtg.Hole Diameter mm	Dimension mm					Approx. Shipping Weight Kg./100 Pcs.	Standard Pkg. Qty./ Carton
		L	T	W	C	D		
I0836	14	203	8	32	152	16	40.00	50

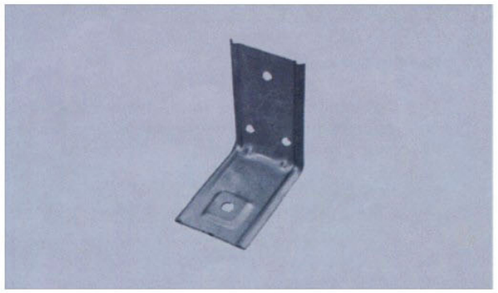


I9

WALL BRACKET
Hot Dip Galvanized

VIC I0956 wall bracket is used when leads from the pole reach the building at an angle or are carried around corners.

Stock No.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
I0956	27.00	100



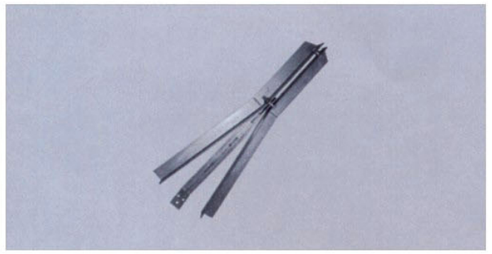
I10

HOUSE BRACKET
Hot Dip Galvanized

VIC I1001 and I1002 are made from no. 16 and 8# gauge steel respectively and are used with porcelain knobs for telephone service drops.

The I1001 is provided with reinforcing rib and web for extra flexural strength.

Stock No.	Steel Gauge No.	Dimension mm			Approx. Shipping Weight Kg./100 Pcs.	Standard Pkg. Qty./ Carton
		L1	L2	L3		
I1001	#16	98	77	52	10.60	250
I1002	#16	89	70	52	9.90	250



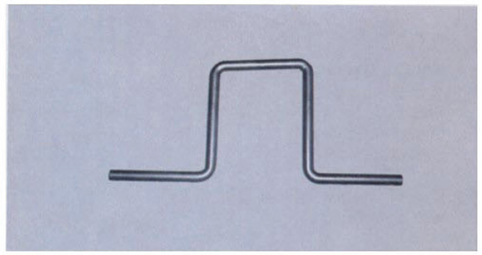
I11

CABLE EXTENSION ARM
Hot Dip Galvanized

The VIC Cable Extension is used to support a telephone cable at a distance from the pole.

Mounting to the pole is accomplished by a two 5/8 Inch bolt at 280mm opening of the arm and a two 1/2 Inch lag screw or 5/8 Inch bolt at the lower leg of the tee support.

Stock No.	Steel Size mm	Extension From Pole Inch (mm)	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
I1144	75×75×6	44-1/2(1,130)	1,440.00	1
I1126	75×75×6	26(660)	780.00	1

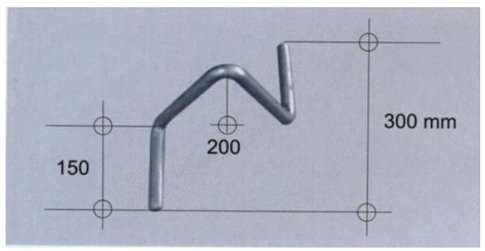


I12

CABLE HANGER
Hot Dip Galvanized

The VIC I1216 and I1219 is formed from hot rolled open hearth steel and used as support for underground cable splicing activities.

Stock No.	Rod Diameter mm	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
I1216	16	170.00	5
I1219	19	230.00	5



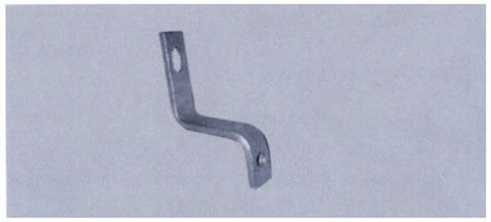
I13

PULLING-IN IRON
Hot Dip Galvanized

The VIC I1319 and I1322 is installed inside manholes and cable vaults to serve as support/anchor during cable pulling operations.

Stock No.	Rod Diameter mm	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Carton
I1319	19	158.00	5
I1322	22	215.00	5

I14

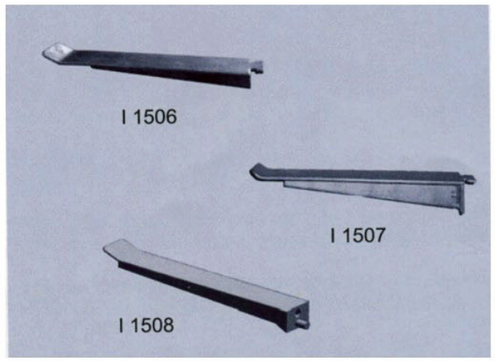


CABLE RACK SUPPORT
Hot Dip Galvanized

VIC cable rack support is used to extend racks away from the wall to avoid obstruction or water see page.

Stock No.	Steel Size mm	Dimension mm			Approx. Shipping Weight Kg./100 Pcs.	Standard Pkg. Qty./ Bundle
		A	B	C		
I1401	12×32	133	47	165	106.00	25
I1402	12×25	95	44	92	55.00	50

I15



A.CABLE HOOK RACK
Hot Dip Galvanized

The VIC underground cable hook rack is used to support cable and cable splices in manholes and cable vaults.

Cable hook racks are formed from 3/16 Inch steel with smooth surfaces to protect cable from damage.

A. Man Hole

Stock No.	Extension from Face of Rack "A"	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty. / Bundle
I1506-06	153(6)	34.50	100
I1506-10	254(10)	58.50	50

Stock No.	Extension from Face of Rack "B"	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty. / Bundle
I1507-12	305(12)	91.50	25
I1507-17	432(17)	127.50	20
I1507-21	534(21)	148.50	20

B. Cable vault

Stock No.	Approximate Shipping Weight kg./100 Pcs.	Standard Pkg. Qty./ Bundle
I1508	248.00	10

GYB-100 (2 EXIT)

GYB-100 (1EXIT)

GSR1 GSR2

GYB-100 Round Meter Sockets

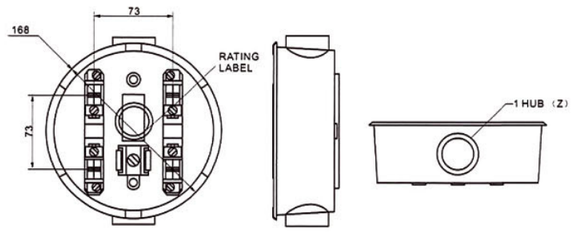
Application
- ◇ Temporary Service
- ◇ Outdoor Advertising
- ◇ Small Customer Service
- ◇ Other Low Amperage Requirements

Features
Our enclosure is made of die cast aluminum.The electrostatically applied epoxy and polyester resins,which are baked on,form a durable,light gray exterior,The current carrying parts are of copper alloy.The ground connector is designed to insure a positive lelctrical connectionby effectively clamping the conductor

Specification

Product Number	Description	Fixed Hubs Size
GYB-100B	1Phase,100A,120/240Vac,4 jaw	1/2"
GYB-100C	1Phase,100A,120/240Vac,4 jaw	3/4"
GYB-100D	1Phase,100A,120/240Vac,4 jaw	1"
GYB-100E	1Phase,100A,120/240Vac,4 jaw	1-1/4"

Dimensions



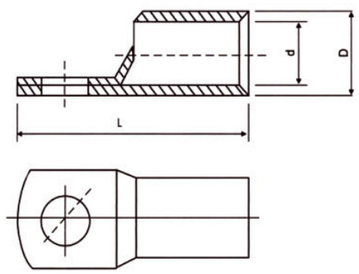
Stainless Steel Sealing Ring

Product Number	Descriotion	Thickness
GSR-1	Slip lock type	0.35mm
GSR-2	Screw type	0.35mm

SC (JGK) SC (JGA) Import Copper Terminals

Application

These products are suitable for the connection of copper conductors (section 1.5-100mm²)in power cable with electronic equipment .They are made of with higher 99.9 percent pure copper tube T2 and coated with tin. Working temperature-55℃~150℃.



Type	ϕ	D	D	L
SC (JGK)-1.5	ϕ4.2, ϕ5.2	3.5	1.8	18
SC (JGK)-2.5	ϕ4.2ϕ,5.2,ϕ6.2	4	2.5	19
SC (JGK)-4	ϕ5.2, ϕ6.2,	4.8	3.1	21
SC (JGK)-6	ϕ5.2, ϕ6.2, ϕ8.2	5.5	3.8	24
SC (JGK)-10	ϕ6.2, ϕ8.2	6.8	4.8	25.5
SC (JGK)-16	ϕ6.2, ϕ8.2, ϕ10.5	7.5	5.5	30.5
SC (JGK)-25	ϕ6.2, ϕ8.2, ϕ10.5	9	7	34
SC (JGK)-35	ϕ6.2, ϕ8.2, ϕ10.5, ϕ12.5	10.5	8.2	38
SC (JGK)-50	ϕ8.2, ϕ10.5, ϕ12.5	12.5	9.8	45
SC (JGK)-70	ϕ8.2, ϕ10.5, ϕ12.5	14.5	11.5	50
SC (JGK)-95	ϕ10.5, ϕ12.5	17.5	13.8	55.5
SC (JGK)-120	ϕ12.5, ϕ16.5	19.5	15.5	63
SC (JGK)-150	ϕ12.5, ϕ16.5	21	16.5	71
SC (JGK)-185	ϕ16.5	23.5	18.8	78
SC (JGK)-240	ϕ16.5	26.5	21	92
SC (JGK)-300	ϕ16.5, ϕ20.5	30	24	102
SC (JGK)-400	ϕ16.5, ϕ20.5	34	26.5	113
SC (JGK)-500	ϕ16.5, ϕ20.5	38	30	123
SC (JGK)-630	ϕ20.5	45	35	135
SC (JGK)-800	ϕ22.5	50	39	170
SC (JGK)-1000	ϕ22.5	56	44	200

JGK

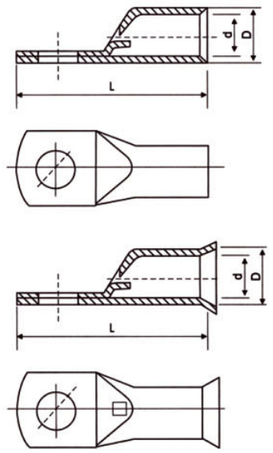
JGA

Type	ϕ	D	d	L
TSC (JGA)-1.5	ϕ4.2, ϕ5.2	3.5	1.8	18
SC (JGA)-2.5	ϕ4.2ϕ,5.2,ϕ6.2	4	2.5	19
SC (JGA)-4	ϕ5.2, ϕ6.2,	4.8	3.1	21
SC (JGA)-6	ϕ5.2, ϕ6.2, ϕ8.2	5.5	3.8	24
SC (JGA)-10	ϕ6.2, ϕ8.2	6.8	4.8	25.5
SC (JGA)-16	ϕ6.2, ϕ8.2, ϕ10.5	7.5	5.5	30.5
SC (JGA)-25	ϕ6.2, ϕ8.2, ϕ10.5	9	7	34
SC (JGA)-35	ϕ6.2, ϕ8.2, ϕ10.5, ϕ12.5	10.5	8.2	38
SC (JGA)-50	ϕ8.2, ϕ10.5, ϕ12.5	12.5	9.8	45
SC (JGA)-70	ϕ8.2, ϕ10.5, ϕ12.5	14.5	11.5	50
SC (JGA)-95	ϕ10.5, ϕ12.5	17.5	13.8	55.5
SC (JGA)-120	ϕ12.5, ϕ16.5	19.5	15.5	63
SC (JGA)-150	ϕ12.5, ϕ16.5	21	16.5	71
SC (JGA)-185	ϕ16.5	23.5	18.8	78
SC (JGA)-240	ϕ16.5	26.5	21	92
SC (JGA)-300	ϕ16.5, ϕ20.5	30	24	102
SC (JGA)-400	ϕ16.5, ϕ20.5	34	26.5	113
SC (JGA)-500	ϕ16.5, ϕ20.5	38	30	123
SC (JGA)-630	ϕ20.5	45	35	135
SC (JGA)-800	ϕ22.5	50	39	170
SC (JGA)-1000	ϕ22.5	56	44	200

SC (JGK) SC (JGB)Imported Spy Triangle, Bell Muth Coppter Connection Terminals

Application

These products ard suitable for the connection of copper conductors (section 1.5-100mm2)in power cable with electronic equipment .They are made of with higher 99.9 percent pure copper tube T2 and coated with tin. Working temperature-55℃~150℃.



Type	ϕ	D	D	L
SC (JGY)-1.5	ϕ4.2, ϕ5.2	3.5	1.8	18
SC (JGY)-2.5	ϕ4.2ϕ,5.2,ϕ6.2	4	2.5	19
SC (JGY)-4	ϕ5.2, ϕ6.2,	4.8	3.1	21
SC (JGY)-6	ϕ5.2, ϕ6.2, ϕ8.2	5.5	3.8	24
SC (JGY)-10	ϕ6.2, ϕ8.2	6.8	4.8	25.5
SC (JGY)-16	ϕ6.2, ϕ8.2, ϕ10.5	7.5	5.5	30.5
SC (JGY)-25	ϕ6.2, ϕ8.2, ϕ10.5	9	7	34
SC (JGY)-35	ϕ6.2, ϕ8.2, ϕ10.5, ϕ12.5	10.5	8.2	38
SC (JGY)-50	ϕ8.2, ϕ10.5, ϕ12.5	12.5	9.8	45
SC (JGY)-70	ϕ8.2, ϕ10.5, ϕ12.5	14.5	11.5	50
SC (JGY)-95	ϕ10.5, ϕ12.5	17.5	13.8	55.5
SC (JGY)-120	ϕ12.5, ϕ16.5	19.5	15.5	63
SC (JGY)-150	ϕ12.5, ϕ16.5	21	16.5	71
SC (JGY)-185	ϕ16.5	23.5	18.8	78
SC (JGY)-240	ϕ16.5	26.5	21	92
SC (JGY)-300	ϕ16.5, ϕ20.5	30	24	102
SC (JGY)-400	ϕ16.5, ϕ20.5	34	26.5	113
SC (JGY)-500	ϕ16.5, ϕ20.5	38	30	123
SC (JGY)-630	ϕ20.5	45	35	135
SC (JGY)-800	ϕ22.5	50	39	170
SC (JGY)-1000	ϕ22.5	56	44	200

JGY

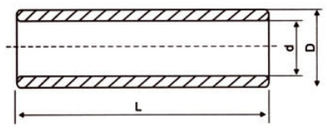
JGB

Type	ϕ	D	d	L
SC(JGA)-1.5	ϕ4.2, ϕ5.2	3.5	1.8	18
SC(JGB)-2.5	ϕ4.2ϕ,5.2,ϕ6.2	4	2.5	19
SC(JGB)-4	ϕ5.2, ϕ6.2,	4.8	3.1	21
SC(JGB)-6	ϕ5.2, ϕ6.2, ϕ8.2	5.5	3.8	24
SC(JGB)-10	ϕ6.2, ϕ8.2	6.8	4.8	25.5
SC(JGA)-16	ϕ6.2, ϕ8.2, ϕ10.5	7.5	5.5	30.5
SC(JGB)-25	ϕ6.2, ϕ8.2, ϕ10.5	9	7	34
SC(JGB)-35	ϕ6.2, ϕ8.2, ϕ10.5, ϕ12.5	10.5	8.2	38
SC(JGB)-50	ϕ8.2, ϕ10.5, ϕ12.5	12.5	9.8	45
SC(JGB)-70	ϕ8.2, ϕ10.5, ϕ12.5	14.5	11.5	50
SC(JGB)-95	ϕ10.5, ϕ12.5	17.5	13.8	55.5
SC(JGB)-120	ϕ12.5, ϕ16.5	19.5	15.5	63
SC(JGB)-150	ϕ12.5, ϕ16.5	21	16.5	71
SC(JGB)-185	ϕ16.5	23.5	18.8	78
SC(JGB)-240	ϕ16.5	26.5	21	92
SC(JGB)-300	ϕ16.5, ϕ20.5	30	24	102
SC(JGB)-400	ϕ16.5, ϕ20.5	34	26.5	113
SC(JGB)-500	ϕ16.5, ϕ20.5	38	30	123
SC(JGB)-630	ϕ20.5	45	35	135
SC(JGB)-800	ϕ22.5	50	39	170
SC(JGB)-1000	ϕ22.5	56	44	200

Gty Copper Connecting Tube

GTY-1

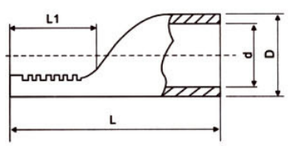
GTY-2

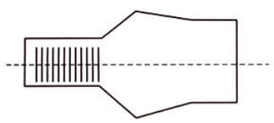


These products are applicable for the connection to the circular wire. Hemicyde wire with power supply cable in distributrion equipment, they are made of higher 99.9 percent pure T2 copper tube and coated tin.

Type	D(mm)	d(mm)	L(mm)
GTY-1.5	3.7	1.8	20
GTY-2.5	4	2.5	20
GTY-4	4.8	3.1	20
GTY-5.5	5.5	3.8	25
GTY-10	6.8	4.8	30
GTY-16	7.5	5.5	35
GTY-25	9	7	40
GTY-35	10.5	8.2	45
GTY-50	12.5	9.8	50
GTY-70	14.5	11.5	55
GTY-95	17.5	13.5	60
GTY-120	19.5	15.	65
GTY-150	21	16.5	70
GTY-185	23.5	18.5	75
GTY-240	26.5	21	80
GTY-300	30	24	85
GTY-400	34	27	90
GTY-500	38	30	100
GTY-630	45	35	110
GTY-800	50	39	150
GTY-1000	56	44	170

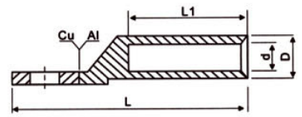
C45 Plug-in Needle

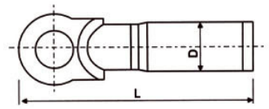


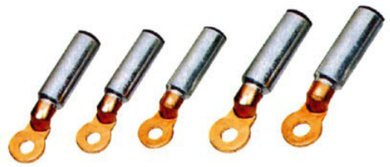


Mode	D	d	L	L1
10^2	7.5	5	34	13.5
16^2	8.5	6	35	14
25^2	10	7	36	14.5
35^2	11	8	37	15
50^2	13	10	41	15.5
70^2	16	12	45	16
95^2	18	14	50	18
120^2	20	15	57	20
150^2	22	17	67	24
185^2	24	19	77	28
240^2	26	21	85	31

DTL Copper-aluminium Connecting Terminals



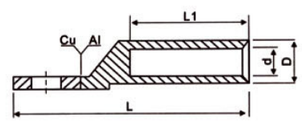


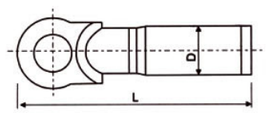


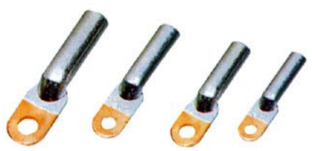
DTL-2

DTL series of copper-aluminium wiring terminals are suitable for transition connection of circular aluminium wires, hemicycle-sector aluminium wires, power supply cables in the distribution equipment and copper terminals of the electrical equipment.The material of aluminium and cppper is that of L3 and T2 respectively. The technology of friction welding is wonderfully adopted.. Therefore they have distinguishing features of strong weld intensity, good nature in electrification, galvanic corrosion resistant and long service life.

Type	Φ	D	d	L	L1
DTL-2-16	13	16	5.5	87	42
DTL-2- 25	13	16	6.5	87	42
DTL-2-35	13	16	8	87	42
DTL-2-50	13	20	9	87	43
DTL-2-70	13	20	11	87	43
DTL-2-95	13	20	12.5	87	43
DTL-2-120	13	25	13.5	111	60
DTL-2-150	13	25	15.5	111	60
DTL-2-185	13	32	17.5	116	60
DTL-2-240	13	32	19.5	116	60
DTL-2-300	13	34	22.5	120	62





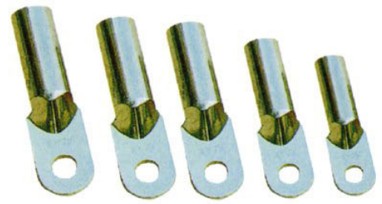


DTL-1

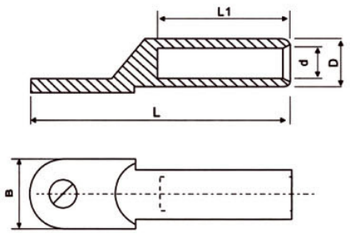
Type	Φ	D	d	L	L1	B
DTL-1-10	8.5	10	6	68	28	16
DTL-1-16	8.5	11	6	70	30	16
DTL-1-25	8.5	12	7	75	34	18
DTL-1-35	10.5	14	8.5	85	38	20.5
DTL-1-50	10.5	16	9.8	90	40	23
DTL-1-70	12.5	18	11.5	102	48	26
DTL-1-95	12.5	21	13.5	112	50	28
DTL-1-120	14.5	23	15	120	53	30
DTL-1-150	14.5	25	16.5	126	56	34
DTL-1-185	16.5	27	18.5	133	58	37
DTL-1-240	16.5	30	21	140	60	40
DTL-1-300	21	34	23.5	160	65	50
DTL-1-400	21	38	27	170	70	50
DTL-1-500	21	47	29	225	75	60
DTL-1-630	-	54	35	245	80	80
DTL-1-800	-	60	38	270	90	100

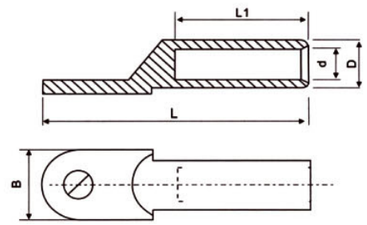
Copper-aluminium Connecting Terminals of DT DL Series

DT



DL





Connecting terminals are suitable for the conjunction of wires, cables in the distribution equipment and the electrical equipment. DL series of aluminum connecting terminals are pressed with aluminium bar(L3),DT series of copper connecting terminals with copper bar(T2).

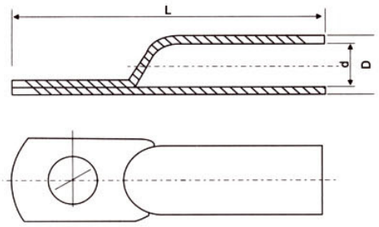
Type	Dimensions(mm)					
	ϕ	D	d	L	L1	B
DT-10	8.5	9	5.3	62	28	16
DT-16	8.5	10	6.5	68	30	16
DT-25	8.5	11	7	70	33	18
DT-35	10.5	12	8.5	80	36	20.5
DT-50	10.5	14	9.5	85	38	23
DT-70	12.5	16	11.5	95	43	26
DT-95	12.5	18	13.5	104	46	28
DT-120	14.5	20	15	112	49	30
DT-150	14.5	22	16.5	120	51	34
DT-185	16.5	25	18.5	125	55	37
DT-240	16.5	27	21	136	60	40
DT-300	18	31	23	155	66	50
DT-400	21	34	26.5	170	75	50
DT-500	21	38	29	190	75	60
DT-630	21	45	35	220	85	80
DT-800	21	50	38	260	85	100

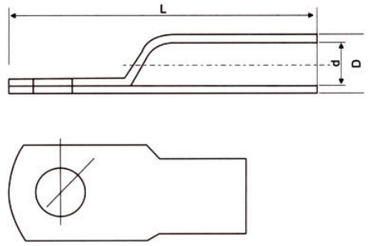
Type	Dimensions(mm)					
	ϕ	D	d	L	L1	B
DT-10	8.5	9	6	68	28	16
DT-16	8.5	10	6	70	30	16
DT-25	8.5	12	7	75	34	18
DT-35	10.5	14	8.5	85	38	20.5
DT-50	10.5	16	9.5	90	40	23
DT-70	12.5	18	11.5	102	48	26
DT-95	12.5	21	13.5	112	51	28
DT-120	14.5	23	15	120	53	30
DT-150	14.5	25	16.5	126	56	34
DT-185	17	27	18.5	133	58	37
DT-240	17	30	21	140	60	40
DT-300	21	34	24	160	65	50
DT-400	21	38	26	170	80	50
DT-500	21	47	29	190	75	60
DT-630	21	54	35	220	85	80
DT-800	21	60	38	250	100	100

DT JG Copper Series Connecting Terminals

DT(G)

JG





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
DT(G)-10	6.2	8	5	52
DT(G)-16	6.2	9	6	57
DT(G)-25	6.2	10	7	62
DT(G)-35	8.5	11	8	66
DT(G)-50	8.5	13	10	72
DT(G)-70	10.5	16	12	80
DT(G)-95	10.5	18	14	85
DT(G)-120	12.5	20	15	96
DT(G)-150	12.5	23	17	102
DT(G)-185	14.5	25	19	114
DT(G)-240	16.5	27	21	120
DT(G)-300	16.5	31	24	135
DT(G)-400	18.5	34	26	150
DT(G)-500	20.5	38	30	170
DT(G)-630	22.5	45	35	210
DT(G)-800	22.5	50	40	270

Type	ϕ	D	d	L
JG-10	6.2	8	5	38
JG-16	6.2	9	6	41
JG-25	6.2	10	7	46
JG-35	8.5	11	8	52
JG-50	8.5	13	10	54
JG-70	10.5	16	12	61
JG-95	10.5	18	14	66
JG-120	12.5	20	15	73
JG-150	12.5	23	17	77
JG-185	14.5	25	19	86
JG-240	16.5	27	21	93
JG-300	16.5	31	24	103
JG-400	18.5	34	26	113
JG-500	20.5	38	30	124
JG-630	22.5	45	35	140
JG-800	22.5	50	40	170

OT Copper Open Connecting Nose
GT-1 GL-1 Connecting Tube (passing Through)

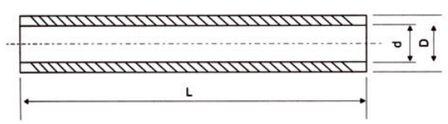
GL-1 GT-1

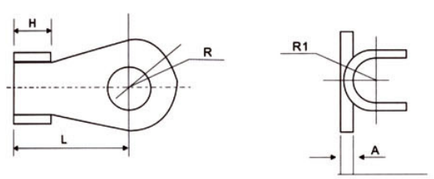
These products are applicable to connect the circular wire and hemicycle-sector GT series hole-passing connection tube is made of T2 copper tube. GL series hole-passing connection tube is made of L3 aluminium tube, both top quality.

Type	D	d	L
GT-1-10	8	5	52
GT-1-16	9	6	56
GT-1-25	10	7	60
GT-1-35	11	8	64
GT-1-50	13	10	72
GT-1-70	16	12	78
GT-1-95	18	13	85
GT-1-120	20	15	90
GT-1-150	23	17	100
GT-1-185	25	19	105
GT-1-240	27	21	110
GT-1-300	31	24	130
GT-1-400	34	26	150
GT-1-500	38	30	170
GT-1-630	45	35	190

OT

Type	D	d	L
GL-1-10	9	5	52
GL-1-16	10	6	56
GL-1-25	11	7	62
GL-1-35	12	8	67
GL-1-50	15	10	76
GL-1-70	17	11	87
GL-1-95	19	13	92
GL-1-120	21	15	98
GL-1-150	23	17	108
GL-1-185	25	19	114
GL-1-240	28	21	118
GL-1-300	34	24	135





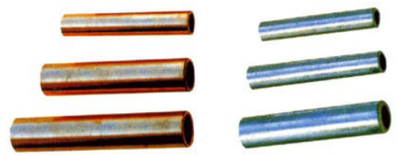
Type	ϕ	H	L	R	R1	A
OT-10A	5.2	6	14.5	4.5	2	0.8
OT-20A	6.2	7	17	5.5	2.5	1
OT-30A	6.2	8.2	19	5.8	3.2	1.2
OT-40A	6.2	9	19.5	6.2	3.5	1.2
OT-50A	6.2	9	21.5	6.5	3.5	1.2
OT-60A	8.2	10	23	7	4	1.4
OT-80A	8.2	11	25	8	4.5	1.5
OT-100A	8.2	12	29	8.5	5	1.5
OT-150A	10.2	12	31	9	5.5	1.6
OT-200A	10.2	14	33	10	6	1.7
OT-250A	10.2	15.5	36	10.5	6.5	2
OT-300A	12.2	16	40	11.5	7	2
OT-400A	14.2	18	43	13	8	2.2
OT-500A	14.2	20	46	14.5	8.5	2.4
OT-600A	16.2	22	50.5	16	10.5	2.8
OT-800A	18.2	26	61	17.5	12.5	3.2
OT-1000A	18.2	33	66	20.5	15.5	3.8

Connection Tube (Oil Seal)

GTL

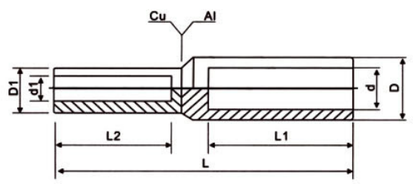
These products are applicable to connect the circular wire and hemicycle-section wire in distribution equipment or power supply cables, GT series connection tube is made of T2 copper tube, GTL series hole-passing connecting tube is made of friction-welding craft, both top quality.

Type	Dimensions (mm)						
	D	d	D1	d1	L1	L2	L
GTL-16	10	6	9	5	30	30	70
GTL-25	12	7	10	6	33	30	75
GTL-35	14	8.5	11	7	40	30	85
GTL-50	16	9.8	13	8.5	42	32	95
GTL-70	18	11.5	15	9.5	50	38	105
GTL-95	21	13.5	17	11.5	50	40	110
GTL-120	23	15	19	13.5	55	42	112
GTL-150	25	17	21	15	55	44	118
GTL-185	27	18.5	23	17	60	46	125
GTL-240	30	21	26	19	60	54	130
GTL-300	34	23	28	21	65	56	145
GTL-400	38	27	30	23	70	60	155
GTL-500	43	29	34	26	75	65	165



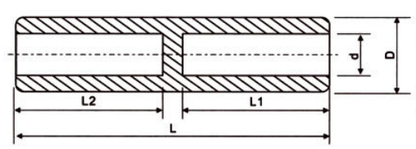
GT-2 GL-2

Type	Dimensions (mm)			
	D	d	L1	L
GT-2-16	10	6.5	30	65
GT-2-25	11	7	32	70
GT-2-35	12	8.5	34	75
GT-2-50	14	9.8	35	80
GT-2-70	16	11.5	42	90
GT-2-95	18	13.5	43	95
GT-2-120	20	15	47	100
GT-2-150	22	17	49	105
GT-2-185	25	19	50	110
GT-2-240	27	21	55	120
GT-2-300	31	23	60	130
GT-2-400	34	26	65	140



GTL

Type	Dimensions (mm)			
	D	d	L1	L
GL-2-16	10	6	30	70
GL-2-25	12	7	32	75
GL-2-35	14	8.5	37	85
GL-2-50	16	9.8	42	95
GL-2-70	18	11.5	47	105
GL-2-95	21	13.5	50	110
GL-2-120	23	15	52	115
GL-2-150	25	16.5	55	120
GL-2-185	27	18.6	57	125
GL-2-240	30	21	60	130
GL-2-300	34	23	64	140
GL-2-400	38	26	70	160



GT-2 GL-2

TJ JTL TL Copper， Copper-Aluminum, Aaluminium Jointing Clamp

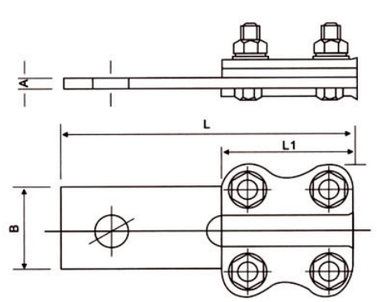
JT

JTL

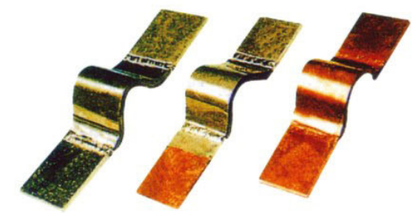
JL

Application:
The series of connecting clamps are suitable for the transition connection of apparatus in the door switching equipment with various kinds of wires and cables here are quite a few sorts of connecting clamps.some of which are JT series of copper connecting clamps JL series of aluminium ones are made in the technology of friction welding.

Type	Φ	L	L1	B	A		
					JT	JTL	JL
JT JTL-100 JL	10.5	76	40	23	2.5	3	3.5
JT JTL-200 JL	12.5	85	52	25	2.8	3.6	4
JT JTL-300 JL	12.5	95	58	29	3	3.8	4.5
JT JTL-400 JL	12.5	105	61	31	3.4	3.8	4.5
JT JTL-500 JL	14.5	110	68	33	3.5	4.2	5
JT JTL-600 JL	14.5	115	68	35	3.8	4.4	5
JT JTL-800 JL	14.5	125	75	35	4	4.5	5.5
JT JTL-1000 JL	14.5	136	75	40	4.2	4.8	6



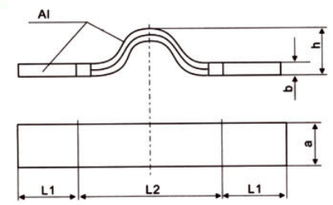
MS MSS MST Bar Expansion Joints



MS MSS MST

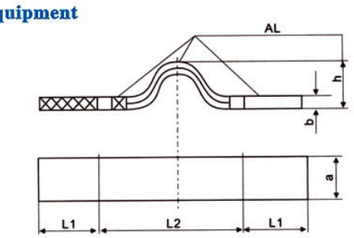
Application:
Aluminium, copper-aluminium bus bar expansion joints are mainly used in transformenr substations for aluminium bus connection or copper-aluminium the copper-aluminium expansion joints adopts flash welding technology.

Bus–bar



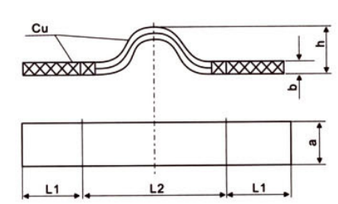
Type	Dimensions (mm)				
	a	d	h	L1	L2
MS-63×6.3	63	6.3	50	73	170
MS-80×6.3	80	6.3	50	90	170
MS-80×8	80	8	50	90	170
MS-100×8	100	8	50	115	170
MS-100×10	100	10	60	115	190
MS-125×8	125	8	50	140	170
MS-125×10	125	10	60	140	190
MS-125×12.5	125	12.5	60	140	190

Bus–equipment



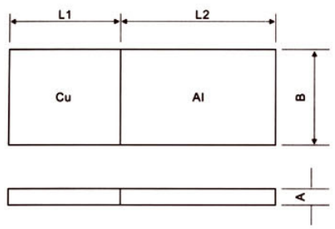
Type	Dimensions (mm)					
	a	d	h	L1	L2	L3
MSS-63×6.3	63	6.3	50	73	170	73
MSS-80×6.3	80	6.3	50	90	170	90
MSS-80×8	80	8	50	90	170	90
MSS-100×8	100	8	50	115	170	115
MSS-100×10	100	10	60	115	190	115
MSS-125×8	125	8	50	140	170	140
MSS-125×10	125	10	60	140	190	140
MSS-125×12.5	125	12.5	60	140	190	140

Copper bus–expansion soint



Type	Dimensions (mm)				
	a	d	h	L1	L2
MST-63×6.3	63	6.3	50	73	170
MST-80×6.3	80	6.3	50	90	170
MST-80×8	80	8	50	90	170
MST-100×8	100	8	50	115	170
MST-100×10	100	10	60	115	190
MST-125×8	125	8	50	140	170
MST-125×10	125	10	60	140	190
MST-125×12.5	125	12.5	60	140	190

MG Series Copper To Aluminium Adapter Board



MG series of copper to aluminium adapter boards apply to the transition connection of a copper bus and aluminium bus. They are made by the technology of flash butt-welding or friction-welding.

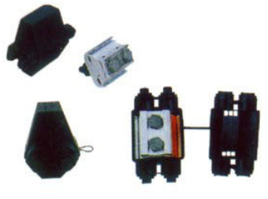
Copper to aluminium adapter board(MG)

Type	Bus width	Dimensions (mm)			
		B	A	L1	L2
MG-50×5	50×5	50	5	50	60
MG-63×6.3	63×6.3	63	6.3	68	85
MG-63×8	63×8	63	8	68	85
MG-63×10	63×10	63	10	68	85
MG-80×6.3	80×6.3	80	6.3	85	100
MG-80×8	80×8	80	8	85	100
MG-80×10	80×10	80	10	85	100
MG-100×8	100×8	100	8	105	120
MG-100×10	100×10	100	10	105	120
MG-125×8	125×8	125	8	130	140
MG-125×10	125×10	125	10	130	140
MG-125×12.5	125×12.5	125	12.5	130	140

JBL(Y) JBTL(Y) JBT(Y) series unparallel-groove clamp and insulating cover

JBL (YH) JBL(YP) JBTL(Y)-1 JBT(Y)

JBTL(Y)-2



JBTL(Y)-2

JBTL(Y) copper-aluminium unparaller-groove clamp

Type	For the type of conductor	L	L1	B
JBTL(Y)-16-120	16-120	45	66	48
JBTL(Y)-50-240	50-240	45	70	60

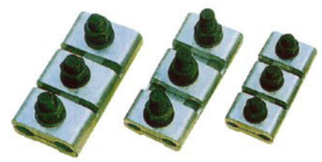
JBT(Y) copperunparallel-groove clamp

Type	For the type of conductor	L	L1	B
JBT (Y)-16-120	16-120	45	55	48
JBT (Y)-50-240	50-240	45	70	60

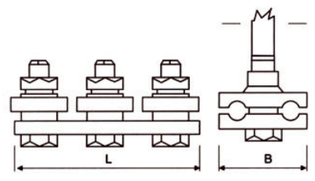
Type		For the type of conductor	L	L1	B
JBL(Y)-50-240	A	JGJ-16-120	45	55	46
	A		64	55	46
JBL(Y)-50-240	A	JGJ-50-240	45	70	60
	B		70	70	60
JBL(Y)-120-300	A	JGJ-120-300	90	75	74
	B				

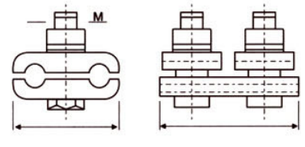
JB JBT JBTL Series Parallel-groove clamp

JBT JB-TL



JB





JB series combined channel connector is applicable to weight-disburdening connection of overhead aluminium wire and splicing steel wire. BTL series copper-aluminium transitional combined channel connecter is applicable to the transitional connection of copper applicable to branching connection of different-section copper wire in section 16-240^2.

JB aluminium parallel-groove clamp

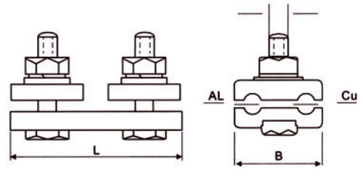
Type	For the type of conductor	B	L1	L2
JB-0	LGJ-16-25	36	70	M10
JB-1	LGJ-35-50	43	80	M12
JB-2	LGJ-70-95	50	112	M12
JB-3	LGJ-120-150	62	138	M16
JB-4	LGJ-185-240	71	142	M16

JBT copper parallel-groove clamp

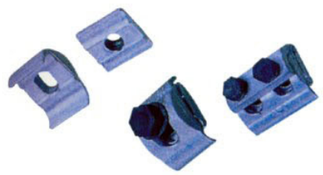
Type	For the type of conductor	B	L1	L2
JBT-0	16-25	35	55	M10
JBT-1	35-50	40	60	M12
JBT-2	70-95	50	65	M12
JBT-3	120-150	58	71	M12
JBT-4	185-240	65	76	M12

JB-TL copper parallel-groove clamp

Type	For aluminium wire	For copper wire	B	L1	L2
JB-TL-0	16-25	16-25	35	60	M10
JB-TL-10	35-50	16-25	40	70	M12
JB-TL-11	35-50	35-50	40	70	M12
JB-TL-21	70-95	35-50	50	100	M12
JB-TL-22	70-95	70-95	50	100	M12
JB-TL-31	120-150	35-50	63	106	M12
JB-TL-32	120-150	70-95	63	106	M12
JB-TL-33	120-150	120-150	63	106	M12
JB-TL-41	185-240	35-50	65	110	M12
JB-TL-42	185-240	70-95	65	110	M12
JB-TL-43	185-240	120-150	65	110	M12
JB-TL-44	185-240	185-240	65	110	M12



CAPG Series Copper-aluminium Aluminium Combined Clamp

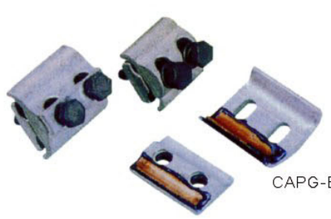


APG

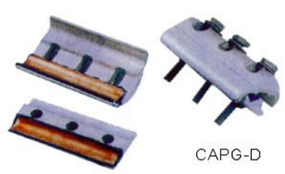
JAPG

CAPG-A

CAPG-C



CAPG-B



CAPG-D

CAPG copper-aluminium PG clamp

CAPG-A1	Cu6-50² A1 16-70/12²	single bolt
CAPG-A2	Cu10-95²A1 25-150²	single bolt
CAPG-B1	Cu6-50²A125-150²	double bolt
CAPG-B2	Cu6-95²A125-150²	double bolt
CAPG-C1	Cu16-120²A1 16-120²	double bolt
CAPG-C2	Cu50-240² A150-240²	double bolt
CAPG-D	Cu35-240² A135-300²	tri-bolt

APG-type aluminum PG clamp

APG-A	A1 16-70²	single bolt
APG-B1	A1 16-35²	double bolt
APG-B2	A1 16-70²	double bolt
APG-B3	A1 16-150²	double bolt
APG-B4	A1 30-300²	double bolt

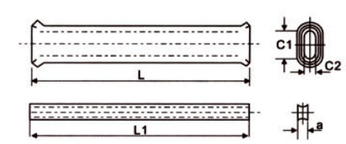
JAPG aluminum PG clamp

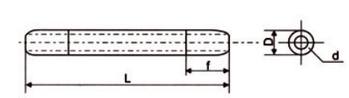
JAPG-1	A1 25-35²
JAPG-2	A1 50-70²
JAPG-3	A1 95-120²

JT JT Splicing Sleeves

JY

JT





Connecting amour are mainly used for connecting and repairing overhead wires of lightning conductors. The products are made of aluminium tube.

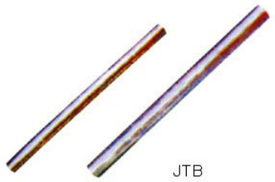
JY splicing sleeves for ACSR

Type	Conductor	Dimensions (mm)			
		D	f	d	L
JY-150L	L J-150	30	60	17.0	280
JY-185L	L J-185	32	60	19.0	310
JY-210L	L J-210	34	70	20.0	330
JY-240L	L J-240	36	70	21.5	350
JY-300L	L J-300	40	80	24.0	390
JY-400L	L J-400	45	90	27.5	450
JY-500L	L J-500	52	100	30.5	510
JY-630L	L J-630	60	110	34.0	570
JY-800L	L J-800	65	130	38.5	650

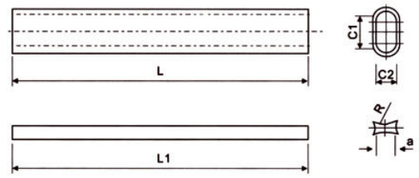
JT splicing sleeves for ACSR

Type	Conductor	Dimensions (mm)						
		a	b	C1	C2	R	LL	L1
JT-10/2	LGJ-10/2	4.0	1.7	11.0	5.0	-	170	180
JT-16/3	LGJ-16/3	5.0	1.7	14.0	6.0	-	210	220
JT-25/4	LGJ-25/4	6.5	1.7	16.0	7.8	-	270	280
JT-35/6	LGJ-35/6	8.0	2.1	18.6	8.8	12.0	340	350
JT-50/8	LGJ-50/8	9.5	2.3	22.0	10.5	13.0	420	430
JT-70/10	LGJ-70/10	11.5	2.6	26.0	12.5	14.0	500	510
JT-95/15	LGJ-95/15	14.0	2.6	31.0	15.0	15.0	690	700
JT-95/20	LGJ-95/20	14.0	2.6	31.5	15.2	15.0	690	920
JT-120/7	LGJ-120/7	15.0	3.1	33.0	16.0	15.0	910	920
JT-120/20	LGJ-120/20	15.0	3.1	35.0	17.0	15.0	910	950
JT-150/8	LGJ-150/8	16.0	3.1	36.0	17.5	17.5	940	950
JT-150/20	LGJ-150/20	17.0	3.1	37.0	18.0	17.5	940	950
JT-150/25	LGJ-150/25	17.5	3.1	39.0	19.0	17.5	940	950
JT-185/10	LGJ-185/10	18.0	3.4	40.0	19.5	18.5	1040	1060
JT-185/25	LGJ-185/25	19.5	3.4	43.0	21.0	18.0	1040	1060
JT-185/30	LGJ-185/30	19.5	3.4	43.0	21.0	18.0	1040	1060
JT-210/10	LGJ-210/10	20.0	3.6	43.0	21.0	19.5	1070	1090
JT-210/25	LGJ-210/25	20.0	3.6	44.0	21.5	19.5	1070	1090
JT-210/35	LGJ-210/35	20.5	3.6	45.0	22.0	19.5	1070	1090
JT-240/30	LGJ-240/30	22.0	3.9	48.0	23.5	20.0	540	550
JT-240/40	LGJ-240/40	22.0	3.9	48.0	23.5	20.0	540	550

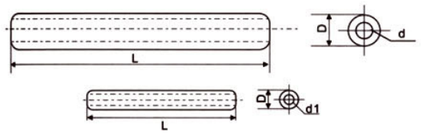
JYB JTB Splicing Sleeves



JTB



Connecting amour damps are mainly used for connection and repaiment of overhead wires of lightning conductors,the products are made of aluminium tube.



Spicing sleeves for ACSR

Type	Conductor	Dimensions (mm)					
		D	D2	d1	d2	L	L1
JYB-300/40	LJG-300/40	40	22	25.5	17	430	120
JYB-300/50	LJG -300/50	40	22	26.0	17	450	140
JYB-30070	LJG -30070	42	24	27.0	19	510	160
JYB-400/50	LJG -400/50	45	22	29.5	17	510	140
JYB-400/65	LJG -400/65	48	26	29.5	21	520	160
JYB-400/95	LJG -400/95	48	28	31.0	22	550	170
JYB-500/65	LJG -500/65	52	24	32.5	19	560	160

Type	Conductor (MM)	Dimensions (mm)						
		a	b	C1	C2	R	L	L1
JTB-35/6	LGJ-35/6	8.0	2.1	18.6	8.8	12.0	170	12.0
JTB-50/8	LGJ-50/8	9.5	2.1	22.0	10.5	13.0	210	16.0
JTB-70/10	LGJ-70/10	11.5	2.1	26.0	12.5	14.0	250	22.2
JTB-95/15	LGJ-95/15	14.0	2.1	31.0	15.0	15.0	260	33.3
JTB-95/20	LGJ-95/20	14.0	2.1	31.5	15.2	15.0	260	35.3
JTB-120/4	LGJ-120/4	15.0	2.1	33.0	16.0	15.0	300	26.2
JTB-120/20	LGJ-120/20	15.5	2.1	35.0	17.0	15.0	300	39.0
JTB-150/8	LGJ-150/8	16.0	2.1	36.0	17.5	17.5	310	31.2
JTB-150/20	LGJ-150/20	17.0	2.1	37.0	18.0	17.5	310	44.3
JTB-150/25	LGJ-150/25	17.5	2.1	39.0	19.0	17.5	310	51.4
JTB-185/10	LGJ-185/10	18.0	2.1	40.0	19.5	18.0	350	38.8
JTB-185/25	LGJ-185/25	19.5	2.1	43.0	21.0	18.0	350	56.4
JTB-185/30	LGJ-185/30	19.5	2.1	43.0	21.0	18.0	350	61.1
JTB-240/30	LGJ-240/30	22.0	2.1	48.0	23.5	20.0	370	71.8
JTB-240/30	LGJ-240/30	22.0	2.1	48.0	23.5	20.0	460	79.2

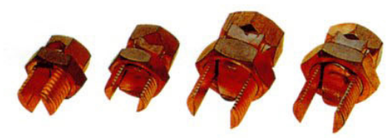
JLL imported aluminium copper double wire connector
T/J imported copper bolt connector

JLL-1 JLL-2

Applications

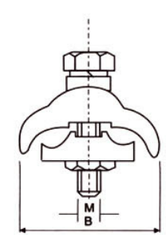
It is suitable for complex-branching connection of different section aluminium wire, it is made of aluminium alloy by die cast.
It is suitabe for the sequence and transportation of all kinds of conductor in electric net,made of copper.

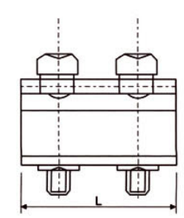
TYPE	B	L	M
AL-16-120	45	50	M8
AL-10-150	50	50	M8
AL-35-185	62	64	M10

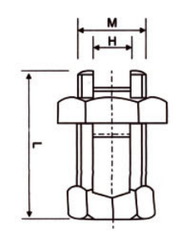


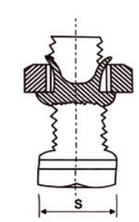
T/J

Type	L	M	H	S
T/J-16	20	M17×2.5	6	18
T/J-25	27	M19×2.5	7	20
T/J-35	35	M21×2.5	7	22
T/J-50-70	42	M23×2.5	11	24
T/J-90-120	45	M25×2.5	14	26
T/J-150-185	60	M29×2.5	17	30
T/J-200-240	60,72	M31×2.5	20	32









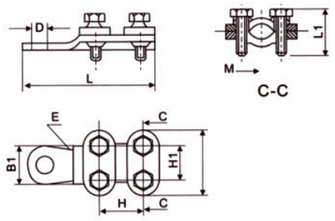
WCJB Imported Wintersweet Type Red Copper Jointing Clamp
WCJC Imported Wintersweet Type Copper Jointing Clamp

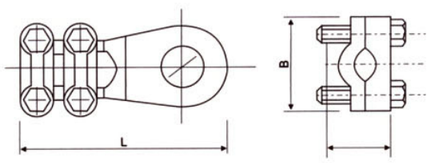
It is suitable for transition connection of the electric appliances of indoors distributing device and kinds of wire and cables. It adopts T2 red copper, the surface nickle plating.

It is suitble for transition connection of the electronic apparatus with wire and cable in indoor distribution equipment,made of brass by die-cast and coated with nickle.

WCJB

WCJC

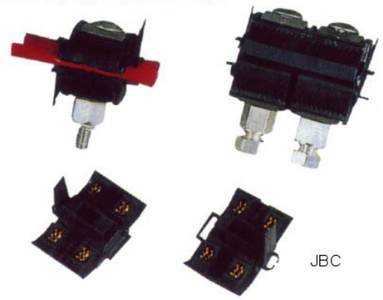




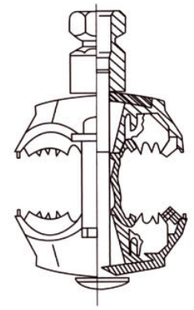
Type	Conducter (mm^2)	Dimensions (mm)							
		L	L1	B	B1	H	H1	D	M
WCJB-1	16~25	39.5	15	25	16.5	13	13	8.5	5
WCJB-2	16~25	45	15	22	18	13	13	8.5	5
WCJB-3	25~35	52.5	15	24.5	21.5	13.5	13.5	10.5	5
WCJB-4	50~70	61	21	31	23	18.5	18.5	10.5	6
WCJB-5	70-95	69	24	35	23.5	20	20	10.5	6
WCJB-6	95~120	74	20.5	42	28.5	22.5	22.5	13.5	7
WCJB-7	120~150	73.5	30	41	27	24	24	13.5	8
WCJB-8	150~185	76	30	42	28	24.5	24.5	13.5	8
WCJB-9	185~240	80	32	44	30	25	25	13.5	8

Type	Conducter (mm^2)	Dimensions (mm)			
		L	A	B	d
WCJC-1	16	37	10	21	7.5
WCJC-2	25~35	48	13	22	11
WCJC-3	50~70	60	17	31	11
WCJC-4	120~150	70	23	35	15
WCJC-5	210~250	90	30	46	17
WCJC-6	300~500	125	35	62	19

JBC insulation piercing clamp



JBC



Application:
In the low-voltage insulation lines, leading the branch connection of the branch conductor from the main conductor, T-connection of low voltage insulation service wire and the branch connection for distribution system cable.

Features:
The clamp has specially designed contact teeth, suitable for the transition connection of cooper and aluminium. outside insulation shield is made of glass fibre reinforce high polymer material. It is unnecessary to remove the insulation layer of the conductor when using. Take the main conductors and branch conductor parallel into the teeth groove of the clamp and tighten the bolt, pierce the insulation of two conductors at same time to make the conductor connect. The insulation conductor is covered with the insulation shield and sealing, functions as the waterproof sealing.

Performance:
Mechanical performance: at the breaking force of the conductor, the clamp should not be broken.Temperature rise performance: at the rated current and short circuit current,the sueface temp. rise of the clamp should be less than that of the connecting conductor. Waterproof insulation performance: under the water 30cm, add 6kV,1min,no breakdown..

Type	Cross section of the main conductor (mm^2)	Cross section of the branch conductor (mm^2)
JBC-1	16~120	16~50
JBC-2	50~240	50~120

NXL series wedge type over-tension resistant resistant clamp and insulating sheath

Application:
NXL series wedge type overtension resistant clamp is applicable for 10KV or not more than 10KV distributing line. It fixes aerial insulating aluminum lead or exposed aluminum lead at the outer corner or the insulator of the terminal overtension resistant pole, so, the aerial lead can be fixed or tightened. Insulating sheath matches with the overtension resistsnt clemp and then be used,so they are insulating and protective.

NXL-1

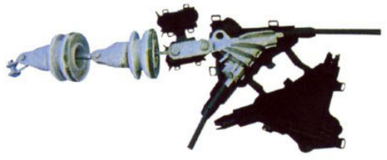
NXL-2

NXL-3

NXZ-1

NXZ-2

NXZ-3



Type	Specification of applicable copper lead	Holding power	Rupturing load	Matching insulating sheath type
NXT-1	70	15.25	28.62	NXZ-1
	95	20.64		
NXT-2	120	25.94	44.55	NXZ-2
	150	32.18		

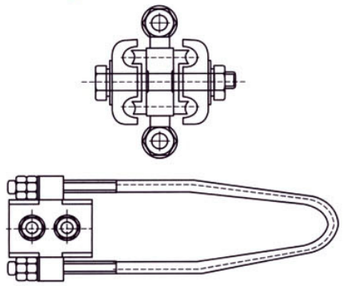
FOUR-CORE COLLECTING STRAIN CLAMP (ANCHOR CLAMP)

Application:
For use with the end of aerial insulation lines up to 1kv, tighten up the insulation conductor.

Features:
The clamp has been designed four core parallel groove, after clamping the four insulation conductor (not remove the insulation layer), tighten up the bolt till stop.

New type	Old type	The retevant type for beaming lead	Conductor section(mm^2)
NES-1A	JNF-1A	BS1-MD-1#	6~10
NES-2A	JNF-2A	BS1-MD-2#	16~25
NES-3A	JNF-3A	BS1-MD-3#	35~50
NES-4A	JNF-4A	BS1-MD-4#	70~95
NES-5A	JNF-5A	BS1-MD-5#	120
NES-1B	JNF-1B		16~50
NES-2B	JNF -2B		70~120

Dimension drawings



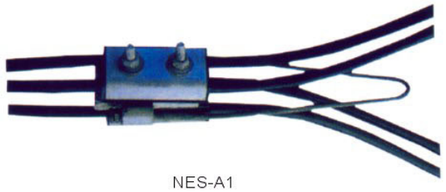
NES-A1

NES-A2

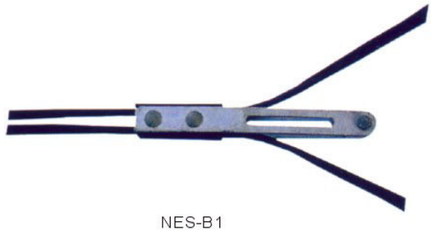
MES-B1

NES-B2

Installation picture

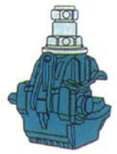


NES-A1

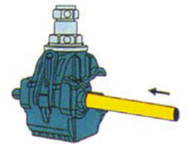


NES-B1

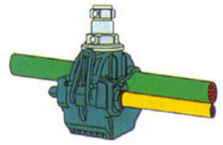
(Simple installation)



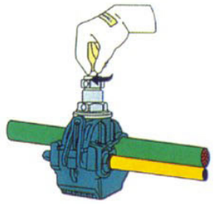
Adjust the connector nut to suitable location



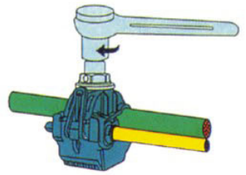
Put the branch wire into the cap sheath fully.



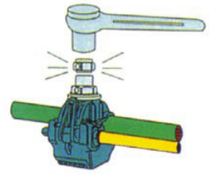
Insert the main wire, if there are two lays of insulated lay in the main cable, should strip a certain length of the first in length of the fist insulated lay from inserted end.



Turn the nut by hand, and fix the connector in suitable location.



Screw the nut with the sleeve spanner.



Screw the nut continually until the top part is cracked and dropped down.

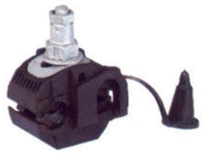
The reason of choosing insulation piecring connector (IPC)

◇Simple installation
Con be branch of cable without striping the insulated coat and the joint is completely insulated. Make branch in the random location of cable without cutting off the main cable. Simple and reliable installation, just need sleeve spanner, can be installed with on live line.
◇Safe use
The joint has good resistance to distortion, quake,fire, wet, electrochemical corrosion and aging, need no maintenance. Has been used successfully for 30 years.
◇Economical cost
Small installation space, save the cost of bridge and land construction. In structural application, there need no terminal box, junction box and return wire of cable, save cable cost. The cost of cables and clamps is lower than other power supply system.

SME Series

Insulation piercing connectors

SXEP



SM2-95

SM3-95

Product type and application scope

1kv Series products (low voltage series)

Type	Main line section	Branch section	Nominal current	Outline size	Weight	Piercing depth
SM756	0.75-6	0.75-6	41	21×27×23	10	1-1.5
SM041	6-10	1.5-6	41	26×39×54	85	1.5-2
SM101	1.5-2.5	1.5-10	55	27×41×62	55	1.5-2
SMEP	16-95	1.5-10	55	27×41×62	55	1-2
SM2-95	16-95	4-35(50)	157	46×52×87	160	1.5-2
SM2-150	50-150	6-35(50)	157	46×52×87	162	1.5-2.5
SM3-95	25-95	25-95	214	50×61×100	198	1.5-2
SM4-150	50-150	50-150	316	50×61×100	219	1.5-2.5
SM6	120-240	25-120	211	52×68×100	360	1.5-2.5
SM7	150-240	10-25	102	52×68×100	336	1.5-2.5
SM240	95-240	95-240	425	83×130×130	1040	1.5-2.5
SM300	300	ANY	425	83×130×130	1040	1.5-2.5
Sm400	400	ANY	425	83×130×130	1040	1.5-2.5

JBC-1

JBC-2

JBC50-240

Type	Conductor Range(mm²)		NO.Bolt
	Main	Tap	
JBC-1	35-70	6-35	1
JBC-2	35-150	35-150	1
JBC50-240	50-240	50-240	2

Insulation piercing connectors

TT2D82F

IPC3.1

IPC3.2

IPC3.3

IPC3.4

TTD121F

TTD151F

TTD201F

TTD281F

TTD451F

Type	Conductor Range(mm²)		NO.Bolt
	Main	Tap	
IPC3.1	95-16	25-10	1
IPC3.2	95-70	95-70	1
IPC3.3	185-120	25-16	1
IPC3.4	185-70	185-70	2
TTD121F	95-25	25-2.5	1
TTD151F	95-25	35-(2.5)6	1
TTD201F	95-35	95-25	1
TTD281F	185-50	35-6	1
TTD282F	95-25	2×（35-2.5）	1
TTD451F	240-95	240-95	2

DCNL-1

DCNL-2

DCNL-3

Type	Conductor Range(mm²)	
	Main (Al/Cu)(mm²)	Tap(Al/Cu)(mm²)
DCNL-1	10-95	1.5-10
DCNL-2	16-95	4-35
DCNL-3	25-120	25-95
	50-240	50-95
DCNL-4	35-150	4-35
DCNL-5	35-150	35-150
	185-240	50-150

Insulation piercing connectors

CT-1

CT-2

CT-3

CT-4

CT-5

Type	Conductor Range(mm²)	
	Main	Tap
CT-1	6-95	1,5-6
CT-2	6-150	2,5-25
CT-3	6-150	4-35
CT-4	25-150	25-95
CT-5	22-150	16-95

YN-1

YN-2

YN-3

YN-4

Type	Conductor Range(mm²)	
	Main	Tap
YN-1	6-25	6-25
YN-2	35-70	6-25
YN-3	35-70	35-70
YN-4/2	35-70	35-70

CT-1

SMMA-2

SMHA

CPA

DP10

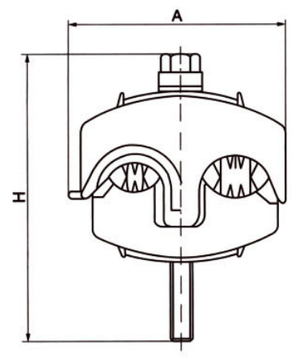
Type	Conductor Range(mm²)	
	Main	Tap
CT-1	25-70	6-35
SMMA-1	16-95	16-25
SMMA-2	70-95	70-95
SMHA	70-185	70-120
CPA	16-70	16-70
DP10	50-70	50-70

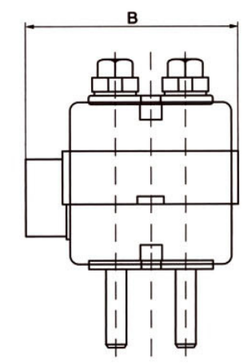
10KV Series products high voltage series

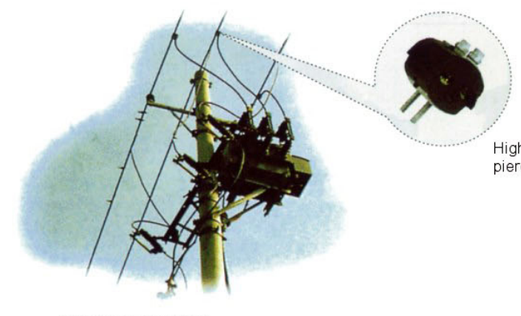
Applicable to branch connection and succession of 10KV overhead insulated lead.

Type	Equivalen ttpe	Applicablead		Main dimensions			Nominal current	Bolt number	Piercing depth
		Main line	Branch line	A	B	H			
SM10-240/240	JJC10-1	95~240	95~240	89	85.5	112.5	530	2	4.5-6
SM10-240/150	JJC10-2	95~240	95~240	84	83	112.5	366	2	4.5-6
SM10-185/50	JJC10-3	95~185	95~185	78.5	77.5	112.5	180	2	4.5-6
SM10-95/70	JJC10-4	25~95	25~95	68	82.5	107.5	226	2	4.5-6
SM10-240/50	JJC10-5	240/50	240/50	88	102	130	503	2	4.5-6

Please phone us for special specification and type







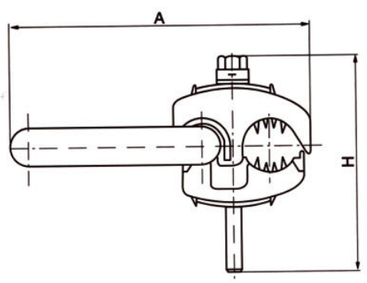
High-voltage insulation piercing connectors(IPC)

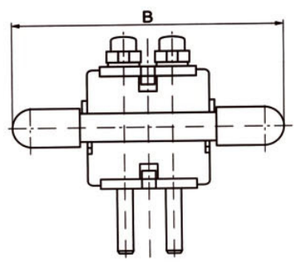
Application legend of high-voltage insulation piercing connectors(IPC)

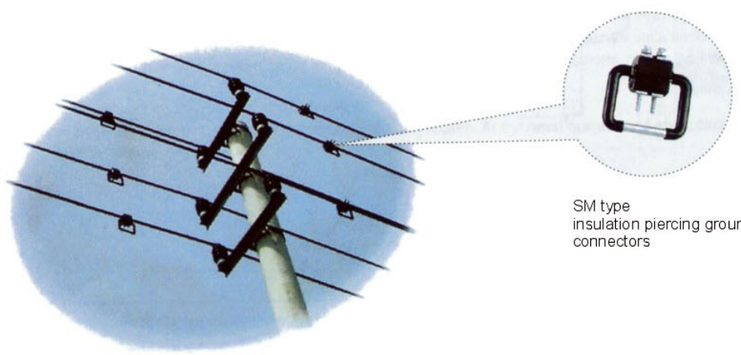
Smf type piercing ground connectors

Applicable to 10KV, following air insulated lead earth protection and temporary prove electricity.

Type	Equivalen ttpe	Applicable voltage	Applicable lead	Main dimensions			Nominal current	Bolt number	Piercing depth
				A	B	H			
SM10-240/150	JJC10-1	10KV 1KV GENERAL	150~240	160	140	112.5	476	2	4.5-6
SM10-185/95	JJC10-2		95~185	152	140	112.5	476	2	4.5-6
SM10-95/25	JJC10-3		25~95	144.5	140	95.2	257	2	4.5-6
SM10-25/95	MINI		25~95	62	102	85	276	1	4.5-6





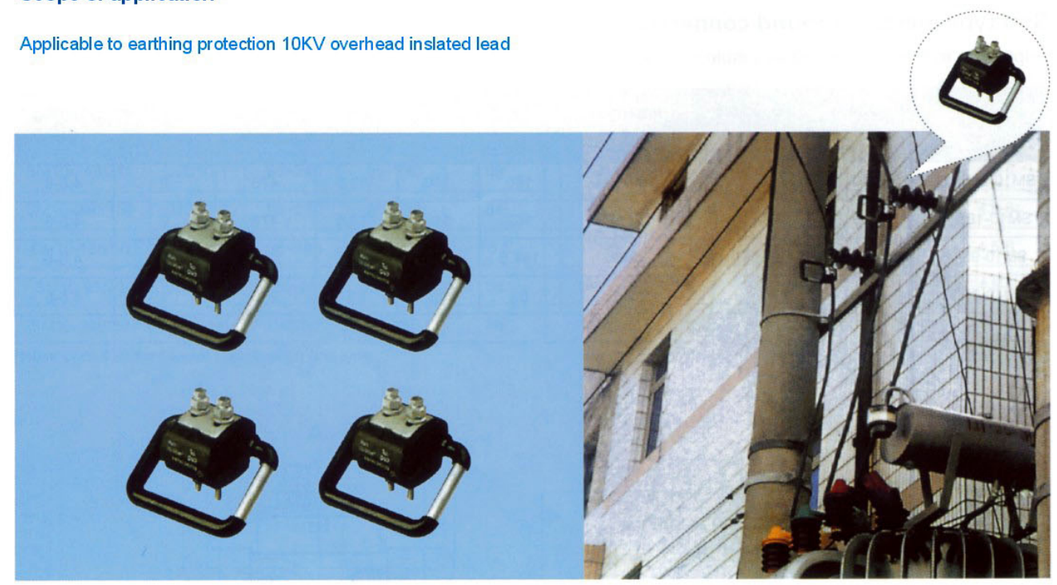


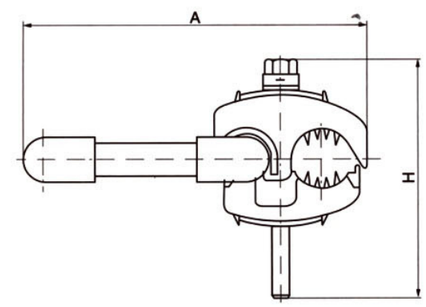
SM type
insulation piercing ground
connectors

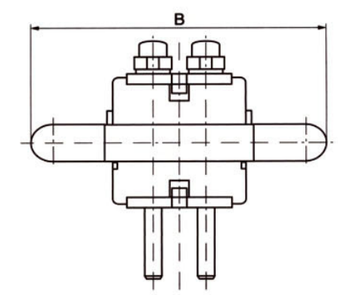
SM type legend for
insulation piercing ground
connectors

Scope of application

Applicable to earthing protection 10KV overhead inslated lead







Main technical parameter

Type	Applicable voltage	Applicable lead	Main dimensions			Nominal current	Bolt number	Main application
			A	B	H			
SMF10-185/95	10	95-185	152	140	113	476	2	The groumded safety protection of main circuitry when electric power construction.
SMF10-95/25	10	25-95	148.5	140	98	257	2	

End cap

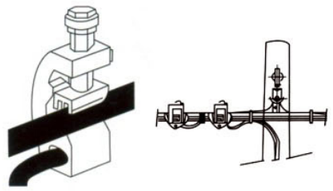
PC

Material: Plastic
Product property: It is used to waterproof and insulate the end of the conductor (0.6/1KV).

Type	Conducter Cross-section(mm^2)
PC6-35	6-35
PC35-70	35-70
PC70-95	70-95
PC95-120	95-120
PC120-185	120-185

Insulated picercing connector

PI-71 CD-71 PC-150

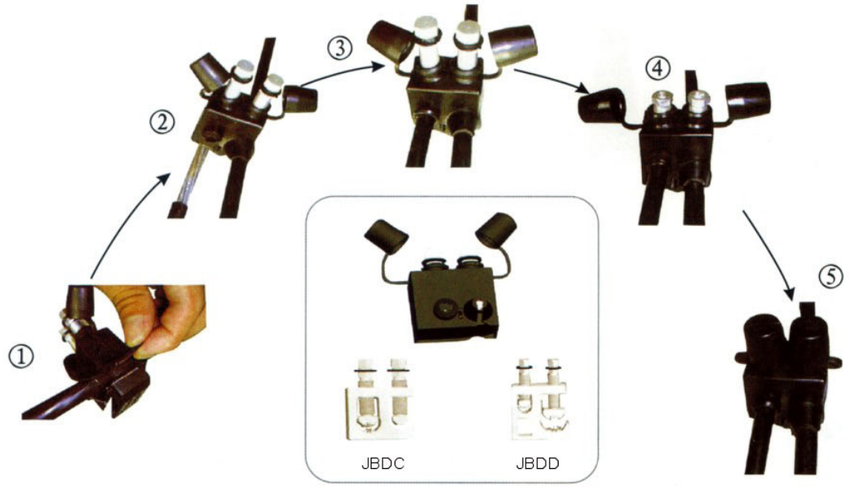


P-71 P-72 P-150 P-151

Material: High strength aluminium alloy, anti-UV plastic
A broad usage in the low voltage insulation lines, leading the breanch connection to the main conductor. T-connection of low voltage insulation wire setvice and cable branch connection for building distribution system. The material for the inside body is high strength aluminum alloy, and the insulation cover is used polyvinyl chloride(PVC). The connectors with specially designed contact teeth, are suitable for the connection of aluminum. Put the main conductor and branch conductor parellel into the teeth grooves of the clamp, tighten the bolts, pierce the insulation of two conductors to make the conduchors connect.
The insulation cover functions as waterproof and sealing penfectly.
At the breaking force of the conductor, the connector will not be distorted and broken. At the rated current and short circuit, rising temperature of the connector should be less than the connecting conductor.

Type	Main Conductor Cross-section(mm^2)	Tep Conductor Cross-section(mm^2)
PI-71	35-95	4-54
CD-71	35-95	4-54
PC-150	35-150	4-50
P-71	35-95	4-50
P-72	35-95	2×4-50
P-150	70-150	2×4-54
P-151	16-150	6-95

Insulated piercing connector



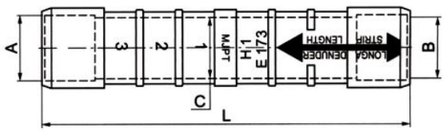
Material: High strength aluminium alloy, anti-UV plastic
Product property: JBDC and JBDD series products have more functions than JBD.
JBDC is to lead the branch from the bare main line, while JBDD is to lead the branch from the insulated main line. Tighten the bolt with an ideal torque, which ensures the best quality of connection.

Type	Bare Main Conductor Cross-section(mm^2)	Insulated Branch Conductor Cross-section(mm^2)
JBDC6-35/6-35	6-35	6-35
JBDC50-150/6-35	50-150	6-35
JBDC50-150/35-95	50-150	35-95

Type	Insulated Main Conductor Cross-section(mm^2)	Bare Branch Conductor Cross-section(mm2)
JBDD6-35/6-35	6-35	6-35
JBDD50-150/6-35	50-150	6-35
JBDD50-150/35-95	50-150	35-95

Pre-insulated sleeve

MJPT

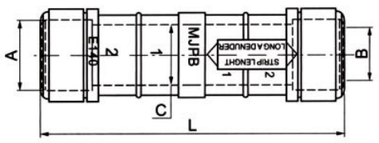


Type	Cable Size (mm^2)		Plastic Sleeve Diameter(mm)	Length (mm)
	A	B	C	L
MJPT 16/16	16	16	20	98.5
MJPT 25/25	25	25	20	98.5
MJPT 35/35	35	35	20	98.5
MJPT 50/50	50	50	20	98.5
MJPT 70/70	70	70	20	98.5
MJPT 95/95	95	95	20	98.5

Material: Aluminum alloy
Product property: MJPT is desqned to connect the insulated cable (include ABC cable) in aerial distribution network. It is in accordance with NFC33-021 . The sleeve is with some tension.
And its cap can prevent the water into the barrel. It is colored differently to distinguish the cable sizes.
Marked with type, cable size, die size, inner cable length end number of crimping.

Pre-insulated sleeve

MJPB

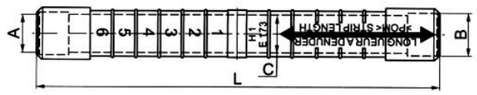


Type	Cable Size (mm^2)		Plastic Sleeve Diameter(mm)	Length (mm)
	A	B	C	L
MJPB 6/16	6	16	16	73.5
MJPB 10/16	10	16	16	73.5
MJPB 16/16	16	16	16	73.5
MJPB 16/25	16	25	16	73.5
MJPB 25/25	25	25	16	73.5

Material:Al-99.5%
Product property: MJPB is designed to connect the insulated cable (include ABC cable). It is in accordance with NFC33-021. The sleeve is without tension.
And its cap can prevent the water into the barrel. It is colorred differently to distinguish the cable size.
Marked with type, cable size, die size, inner cable length and number of crimping.

Pre-insulated sleeve

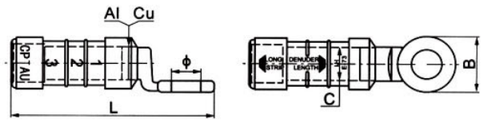
MJPTN



Type	Cable Sizer(mm^2)		Plastic Sleeve Diameter(mm)	Length (mm)
	A	B	C	L
MJPTN 54.6/54.6	54.6	54.6	20	172.5
MJPTN 54.6/70	54.6	70	20	172.5
MJPTN 70/70	70	70	20	172.5
MJPTN 95/95D	95	95	25	172.5

Material: Aluminum alloy
Product property: MJPTN is designed to connect the neutral messenger in aerial bundled cable. It is in accordance with NFC33-021.
The sleeve is with full tension.
And its cap can prevent the water into the barrel. It is colored differently to distinguish the cable sizes .
Marked with type type, cable size, die size, inner cable length and number of crimping.

Pre-insulated bimetal lug



CPTAU

Type	Dimensions(mm)			Length（mm）
	C	B	ϕ	L
CPTAU 16-10	16	20	10.5	73
CPTAU 25-12	20	24	13	98.5
CPTAU 35-12	20	24	13	98.5
CPTAU 50-12	20	24	13	98.5
CPTAU 54.6-12	20	24	13	98.5
CPTAU 70-12	20	24	13	98.5
CPTAU 95-12	20	243	13	98.5

Material: E-Cu; Al-99.6%
Product property: CPTAU is designed to connect the insulated cable (include ABC cable). It is accordance with NFC33-021.
The waterproof cap can prevent the water into the barrel. It is colored differently to distinguish the cable sizes.
Marked with type,cable size, die size, inner cable length and number of crimping.

Anchoring bracket

SM81

SM82

Material: High strength aluminium alloy by casting
Product property: Anchoring ABC cables with neutral messenger on poles (wood, concrete etc.....), excellent in industrial and saline environment. Fixed by 2×(14mm or 16mm) bolts or 2 stainless straps 0.75×20mm. It is in accordance with NFC33-040.

SM96

SM97

The universal hook SM96 and SM97 is used with bands in poie installations and with screws in wall installations. The hook is delivered without screws.

Anchoring clmap

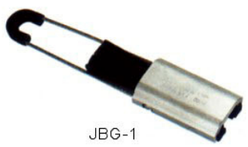
PAM-06

PAM-07

PAM-08

DR1500

DR1600



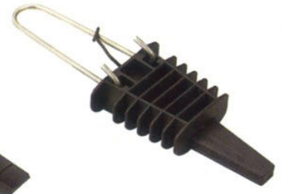
JBG-1

Material: High strength aluminium alloy, nylon plus fiber glass, stainless steel
Product property: They are characterized by high mechanical stability,reduced dimensions for easier handling, high mechanical and cilm-atic resistance.Cable gripping device in insulating material ensures the double insulation of the neutral core and avoids damage to sheath, secured parts, no tools required. Stainless steel bail with two marbles compressed on the end, theis conception allows an easier locking on the body of the clamp. They are in accordance with NFC 33-041.

Type	Cross-section(mm2)
PAM-06	16-20
PAM-07	16-25
PAM-08	16-25
DR1500	54.6-70
DR1600	54.6-70
JBG-1	54.6-70

Anchoring clmap

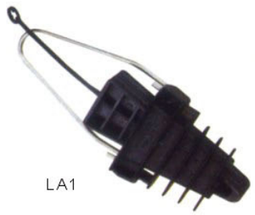
STA



STB

STC

STD

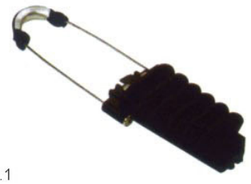


LA1

LA2

DCR-1

DCR-2



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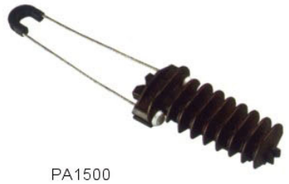


PA1500

Pa2000

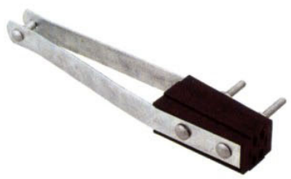
Material: Nylon pius fiber glass
Product property: They plastic anchoring clamp is suitable for insulated low-voltage ABC cable. It is also suitable for multiple conductors. Easy installation and perfect insulated function. It is in accordance with the NFC 33-042.

Type	Cross-section(mm2)
STA	1×10/1×16
STB	2×16/2×25
STC	4×16/4×25
STD	1×16/1×70
LA1	4×16/4×16
LA2	2×6/2×16
DCR-1	2×4/4×25
DCR-2	2×4/4×25
2.1	16-25
Pa1500	25-50
PA2000	54.6-70

Anchoring clamp

NES-B1

NES-B2



NES-B3

NES-B4

Material:Mild steel,nylon plus fiber glass

Product property: It is used to terminate 4-core of aerial bundle conductor.Its function is fixing and tightening the insulation conductor.

Type	Conductor Cross-section(mm²)
NES-B1	4×16-50
NES-B2	4×25-120
NES-B3	4×25-120
NES-B4	4×95-150

Anchoring clamp

SM116

SM117

SM118

For the termination of 4-core LV ABC cable with hook fixing . The clamps have strong springs which keep the clamp in an open position during the installation of conductors.The clamping action functions through wedges.The body is made of weather resistant aluminium alloy and the plastic parts of special fibreglass reinforced plastics

Type	Conductor Cross-section(mm²)
SM116	4×25-35
SM117	4×50-120
SM118	4×50-120

Anchoring clamp

SM157

SM158

SM157 and SM158 used for the anchoring of a 2 or 4 core overhead cable to poles or walls by means of standard hooks

SM160

SM161

Tension clamp for the anchoring of 2 or 4 core overhead cables to poles or walls by standard hooks.Tension clamp is equipped with a spring to make the installation easier .

Type	Conductor Cross-section(mm²)
SM157	2×16-35
SM158	4×16-35
SM160	2×16-35
SM161	4×16-35

Suspension clamp

SM130

SM140

SM136

Used for the installation and suspension of LV ABC cables to poles with standard hook attachment.For straight lines and angles up to 30° 4×(25-120mm²)and 60° 4×(25-50)。Thanks to the integrated construction,no extra parts are needed for the installation.The body is made of corrosion proof aluminium and the inserts of weather resistant plastic.

Light duty clamp for the installation and suspension of 4-core LV ABC cables to poles with standard hook attachment.For straight lines and angles up to 30° .Thanks to the integrated construction,no extra parts are needed for the installation.The body is made of corrosion proof aluminium and the inserts of weather resistant plastic.

For the insrallation and suspension of 4-core LV ABC cables to poles with standard hook attachment.For straight lines and angles up to 90° .No extra parts are needed For the installation.

Type	Conductor Range
SM130	2-4×(25-50)≤60° 2-4×(25-120)≤30°
SM140	2-4×(25-120)≤30°
SM136	2-4×(25-120)≤90°

Suspension clamp

SM94

SM95

1.1A

1.1B

ES54-14

PS1500

SHC-1

SHC-2

SHC-3

SHC-5

SHC-6

Product property:On poles, in alignment or angle,different level,also provide for hanging a public light bundle.

Type	Conductor Range
SM94	16-95
SM95	16-95
1.1A	16-95
1.1B	16-95
ES54-14	16-95
PS1500	16-95
SHC-1	4×16-35
SHC-2	4×120+50
SHC-3	4×50-70
SHC-4	4×50-70
SHC-5	4×70-95
SHC-6	4×70-95

Fixing nail

SMZD-1

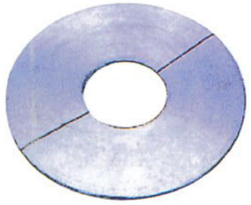
SMZD-2

SMZD-3

It is in accordance with NFC 33-040

Type	Conductor Range(mm)
SMZD-1	15-47
SMZD-2	12-47
SMZD-3	15-47

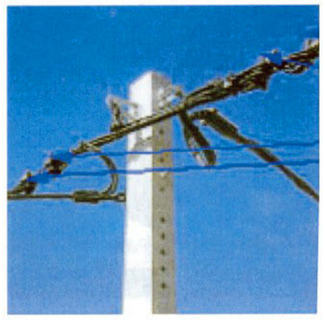
Stainless clamp


SM-23

SM-20

SM-21

SM-22



Material:Stainless steel
Application:To attach cable protection,anchoring and suspension assemblies and other devices

APDM160-Single phase switch for NH type fuses up to 160A

General Description

The APDM160 fuse swith it is used either as an operation or protection device for LV Lines.it is designed to be used with NH 00 size fuses offering a maximum of 160 Amps of line protection without blades.
In case blades are used, the maximum switching load would be 250A.it is manufactured in reinfored fiberglass polyamide and fulfills all the necessary requirements for outdoor installation and operation.
In the APDM 160C model the connection is made with connectors suitable for aluminum and copper conductors with a section range between 16 and 95mm² (5-4/0 AWG).
The APDM 160 model can also be connected with terminals lugs and both models can be installed with single phase or three phase opening.
They have special sockets to obtain a compact set.
The switch is operated from the ground with an operating rod and also has an Indicat or to show if the fuse is placed.It can be sealed with security ties.
It also has a led to show the fusion of the fuse.

Technical Characteristics

Voltage	500V
Lnsulationlevel	1000V
Frequency	50/60HZ
Operational current with fuses	160A
Operational current with blades	250A
Installation category	AC22
Short lasting Current(1s)	3.2KA
Dynamic current(crest)	25KA
Interruption capacity	100KA
Minimum mechanical life(operation)	1000
Weight	600G
Protection range	Ip23

APDM160

Connection detail Ip23

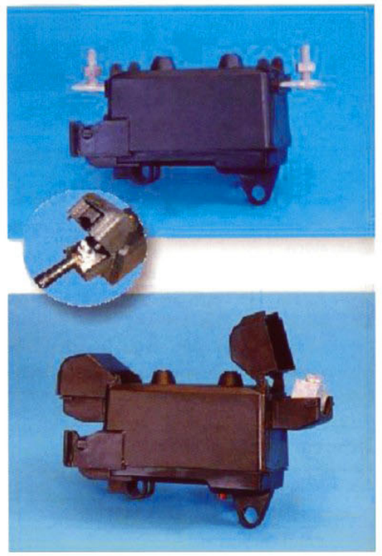
Terminal connection

Connector connection

APDM630-Single phase switch for NH fuses up to 630A

General Description

The APDM630 fuse switch it is used either as an operation or protection device for LV lines.it is designed to be used with NH 1-2 or 3 siza fuses offering a maximum of 630 Amps of line protection without blades.
In case blades are used the maximum switching load would be 800 Amps.
It is manufactured in reinforced fiberglass polyamide and fulfills all the necessary requirements for outdoor installation and operation.
In theAPDM160C model the connection is made with connectors suitable for aluminum and copper conductors with section range between 16 and 95mm² (5-4/0 AWG).
The closure of the cap allows the switch to be closed with or without a fuse, preventing the risk of leaving tension parts exposed.It may also be provided with a light emission diode(LED).



Technical Characteristics

Voltage	500v
Lnsulation level	1000v
Frequency	50/60Hz
Operational current with fuses	630A
Operational current with blabes	800A
Installation category	AC22
Short lasting current(1s)	12KA
Dynamic current(crest)	50KA
Interruption capacity	100KA
Minimum mechanical life(operation)	1000
Weight	1.8Kg
Protection range	Ip23

APDM630

SMF-3(160A~400A)

APDM630-3-Four phase switch for NH fuses up to 630A,with three phase operation

General Description

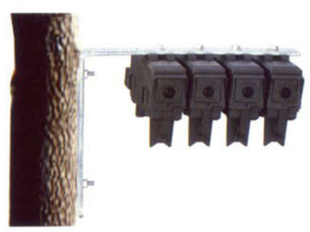
This model is suitable for switching and protecting LV overhead lines . and/or to Include a protection when doing a connection to low voltage underground systems.The design of this equipment allows the opening and closing of the three phases simultaneously and independently from the neutral, Which is clearly identified to prevent its disconnection in rigidly landed systems.If required ,it can be easily transformed in a single phase operation switch as The standard model APDM 630.It can be connected with terminals lugs(APDM630-3) or directly with its Connectors(APDM630-3C). Each phase and the neutral have an indicator which show if the fuse or the blade are installed.The closure of the cap allows the switch to be closed with or without the fuse preventing the risk of leaving live parts exposed.
It can also be provided with a led to show the fusion of the fuses.

Technical Characteristics

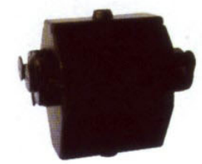
Voltage	500V
Insulation lecel	1000V
Frequency	50/60Hz
Operational current with fuses	630A
Operational current with blabes	800A
Installation category	AC22
Short lasting current(1s)	12KA
Dynamic current(crest)	50KA
Interruption capacity	100KA
Operations behavior without	800
Operations behavior(operation) (400ACos fi 0,65)	200
Weight	1.8Kg
Protection range	IP 23

APDM160

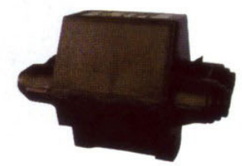
APDM630



Insulated cover



SP-1



SP-2

Material:Plastic
Product property:SP is used as a clamp cover.
UV-radiation and weather resistance thermo plastic provides perfect insulation function.

Type	Application
SP-1	JBL-C16-70/2
	ALPG16-70/1
	ALPG16-70/2
SP-2	JBL-B16-120/2
	JBL-C16-120/2
	JBL-D16-120/2
	ALPG16-120/2
	CAPG-B1
	CAPG-B2

Dead end clamp

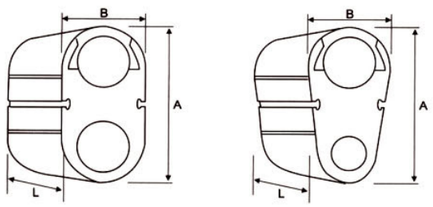
Material:High strength aluminium alloy
Product property：JBH is used for the anchoring of the uninsulated messengers by means of hooks to either a pole or a wall. The clamp is unit without loose parts.

Type	Cross-section(mm^2)	Failure Load(kN)
JBH-1	16	4.0
JBH-2	25	6.6
JBH-3	35	9.3
JBH-4	50	13.2
JBH-5	70	15.0

CONNECTOR PRESS TYPE O

CPTOTYPE

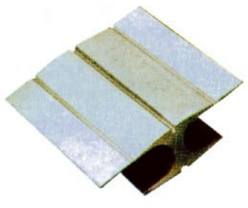
CPTOTYPE

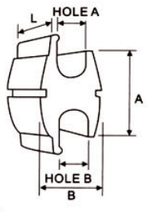


SPECIFCATION for CPTO type

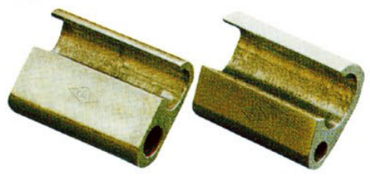
Type	HOLE1 mm²	HOLE2 mm²	Dimensions (mm)		
			A	B	L
CPTO 10-16/10-16	10-16	10-16	18.5	10.5	35.3
CPTO 10-35/10-16	25-35	10-16	22.8	14.5	37.7
CPTO 10-35/16-35	25-35	25-35	26	14	38.6
CPTO 50-70/10-16	50-70	10-16	29.5	19.5	37
CPTO 50-70/16-35	50-70	25-35	28.4	20	38
CPTO 50-70/50-70	50-70	50-70	33.8	20	45.5
CPTO 70-150/50-70	70-150	50-70	44	23.6	60.3
CPTO 70-150/70-150	70-150	70-150	49	23.6	60.3
CPTO 150-240/70-150	150-240	70-150	54.8	30.3	65
CPTO 150-240/150-240	150-240	150-240	62.4	30.3	75.5

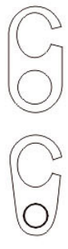
CONNECTOR PRESS TYPE H





CPTOTYPE





SPECIFICATION for CPTH type

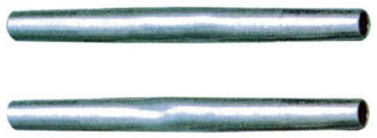
Type	HOLE1 mm²	HOLE2 mm²	Dimensions (mm)		
			A	B	L
CPTH 35-35	16-35	16-35	17.5	23.8	38
CPTH 35-70	16-35	16-35	17.8	26	46
CPTH 70-70	35-79	35-70	20.6	30.5	47
CPTH 120-120	70-120	70-120	22.7	36.5	52
CPTH 70-150	35-150	70-150	23	34.5	70
CPTH 150-150	70-150	70-150	25.4	39.5	70
CPTH 70-240	35-70	120-240	28	42	90
CPTH 150-247	70-150	120-240	32	46	90
CPTH 240-240	120-240	120-240	32	52	90
CPTH 300-300	150-300	150-300	32	52	100

SPECIFICATION for CPTG type

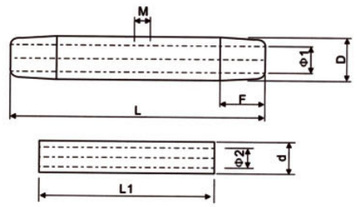
Type	HOLE1 mm²	HOLE2 mm²	Dimensions (mm)		
			A	B	L
CPTG 10-16/10-16	16-35	16-35	17.5	23.8	38
CPTG 16-35/10-16	16-35	35-70	17.8	26	46
CPTG 16-35/16-35	35-70	35-70	20.6	30.5	47
GPTG 50-70/10-16	70-120	70-120	22.7	36.5	52
GPTG 50-70/16-35	35-150	70-150	23	34.5	70
GPTG 50-70/50-70	70-150	70-150	25.4	39.5	70
GPTG 70-150/50-70	35-70	120-240	28	42	90
GPTG 70-150/70-150	70-150	120-240	32	46	90
GPTG 150-240/70-150	120-240	120-240	32	52	90
GPTG 15-240/150-240	150-300	150-300	32	52	100

SPLICING SLEEVES FOR JY、JBD、JYD、AERIAL INSULATION LINE

The inner sleeves is hot-dip galvanized, the outer sleeve and lining sleeves are aluminminium

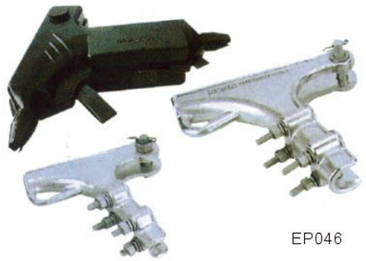


EP 045

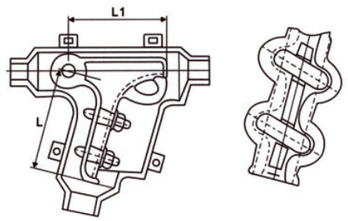


Type	Applicable comductor Type	Dimensions (mm)							Grip strength≧(kg)
		D	d	L	L1	F	Φ1	Φ2	
JY-35/6	LGJ-35/6	18	8	320	90	15	9.5	3.5	10
JY-50/8	LGJ-50/8	20	9	340	90	15	11.0	4.0	14
JY-70/10	LGJ-70/10	22	10	360	110	15	13.0	4.6	20
JY-95/15	LGJ-95/15	26	14	400	150	15	15.5	5.7	32
JY-120/20	LGJ-120/20	26	14	450	155	15	16.5	6.2	35
JY-120/25	LGJ-120/25	26	14	460	160	15	17.5	7.2	40
JY-150/20	LGJ-150/20	30	14	470	155	15	18.5	6.2	40
JY-150/25	LGJ-150/25	30	14	480	160	15	18.5	7.0	44
JY-185/25	LGJ-185/25	34	14	500	160	15	20.5	7.0	55
JY-185/30	LGJ-185/30	34	14	530	190	15	20.5	7.6	60
JY-240/30	LGJ-240/30	36	16	570	170	22	23.0	7.9	70
JY-240/40	LGJ-240/40	36	16	590	190	22	23.0	8.7	80
JY-240/55	LGJ-240/55	36	20	640	230	22	24.0	10.3	100
JY-300/15	LGJ-300/15	40	14	560	120	24	24.0	5.7	65
JY-300/20	LGJ-300/20	40	14	580	140	24	25.0	6.5	70
JY-300/25	LGJ-300/25	40	14	600	160	24	25.0	7.3	80
JY-300/40	LGJ-300/40	40	16	640	190	24	25.5	8.7	90
JY-300/50	LGJ-300/50	40	18	66	210	24	26.0	9.6	100
JY-300/70	LGJ-300/70	42	22	710	260	25	26.5	11.5	120
JY-400/20	LGJ-400/20	45	14	580	140	27	28.5	6.5	85
JY-400/25	LGJ-400/25	45	14	660	160	27	28.5	7.3	90
JY-400/25	LGJ-400/25	45	16	680	180	27	28.5	8.2	100
JY-400/35	LGJ-400/35	45	20	730	220	27	29.5	9.9	120
JY-400/50	LGJ-400/50	48	22	760	250	29	29.5	11.0	130
JY-400/65	LGJ-400/65	48	16	830	300	29	31.0	13.2	160
JY-400/95	LGJ-400/95	52	16	740	180	30	31.5	8.2	110
JY-500/35	LGJ-500/35	52	18	760	200	30	31.5	9.1	120
JY-500/45	LGJ-500/45	52	22	820	250	30	32.5	10.3	150
JY-500/65	LGJ-500/65	60	18	840	200	36	35.5	12.3	140
JY-630/45	LGJ-630/45	60	20	880	230	36	36.5	10.3	155
JY-630/55	LGJ-630/55	60	24	940	280	36	36.5	12.3	180
JY-630/80	LGJ-630/80	65	20	950	230	39	40.0	10.3	180
JY-800/55	LGJ-800/55	65	22	980	260	39	40.5	11.5	200
JY-800/70	LGJ-800/70	65	26	1050	310	39	40.5	13.7	230

NLL SERIES ALLOY-ALUMINUM STRAIN CLAMP



EP046



Structure feature
The body is made of high-strength alloy aluminium
Smooth surface long service life
Easy installation
NO loss of electric energy

Insulation cover performance feature
Withstand voitage: ≥18kV No arcing within one minute
Insulation resistance:>1.0×1014Ω
Environments temperature:-30℃~90℃
Weather proof performance:have good performance after 1008 hours artifical Cimate aging test.

NB:NLL is the type with insulated shell

Type	Diameter of stranded wire	U bolt		U.T.S(KN)	Cover used
		Nos	Dia		
NLL-1	5.0-10.0	2	M10	40	JNL-1
NLL-2	10.1-14.0	2	M12	40	JNL-2
NLL-3	14.1-18.0	3	M12	70	JNL-3
NLL-4	18.1-23.0	3	M12	90	JNL-4
NLL-5	23.1-29.0	5	M12	120	
NLL-35/6	8.16	2	M10	12	
NLL-70/12	11.4	3	M10	28	
NLL-120/20	15.07	3	M10	40	

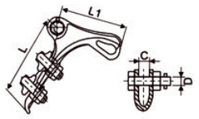
INSULATION ALUMINIUM CLAMPS

EP047

Type	Voltage	mian wire	branch wire
JBD-16-25/4-25	1kV	16-25	4-25
JBD-35-95/4-35	1kV	35-95	4-35
JBD-35-150/4-50	1kV	35-150	4-50

NLD STRAIN CLAMP(BOLT TYPE)

EP048



The clamp boby and keepers are malleable iron,the cotter-pins stainless steel.
The other parts are steel.

Type	Applicable conductor dia(mm)	Dimensions(mm)							rated failure load(KN)	weight (kg)
		D	C	L	L1	R	NO.	Dia.		
NLD-1	5.0~10.0	16	18	150	120	6.5	2	12	20	1.3
NLD-2	10.4~14.0	16	18	205	130	8.0	3	12	40	2.1
NLD-3	14.1~18.0	18	20	310	160	11.0	4	16	70	4.6
NLD-4	18.1~23.0	18	25	410	220	12.5	5	16	90	7.1

NY HYDRAULIC STRAIN CLAMP

EP049

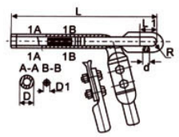


Fig1

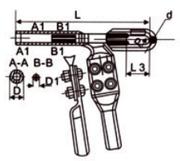
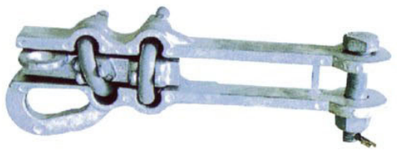


Fig2

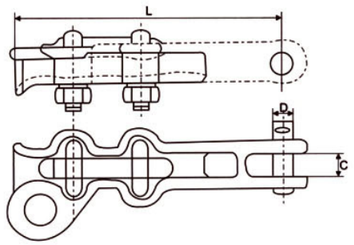
The clamp body and jumper are aluminium,the other parts are hot-dip galvanized steel.

Type	Applicableconductor dia(mm)	Fig no	Dimensions(mm)						slip strength (KN)	weight (kg)
			D	D1	d	L	L1	R		
NY-95/15A(B)	LGJ-95/15	Fig1	30	14	14	405	55	9	34	1.75
NY-95/20A(B)	LGJ-95/20		30	14	14	410	55	9	35	1.80
NY-120/7A(B)	LGJ-120/7		30	12	12	375	55	9	26	1.60
NY-120/20A(B)	LGJ-120/20		30	14	16	420	55	9	39	1.80
NY-120/25A(B)	LGJ-120/25		30	14	16	435	55	9	46	1.85
NY-150/20A(B)	LGJ-150/20		32	14	16	435	55	10	44	2.0
NY-150/25A(B)	LGJ-150/25		32	14	16	440	55	10	51	2.1
NY-150/35A(B)	LGJ-150/35		32	16	18	465	55	10	62	2.25
NY-185/25A(B)	LGJ-185/25		32	14	16	450	55	10	56	2.3
NY-185/30A(B)	LGJ-185/30		32	16	18	475	55	10	61	2.4
NY-240/30A(B)	LGJ-240/30		36	16	18	490	55	10	70	2.6
NY-240/40A(B)	LGJ-240/40		36	16	18	500	55	10	80	2.7
NY-300/15A(B)	LGJ-300/15		40	14	16	470	55	10	65	2.9
NY-300/20A(B)	LGJ-300/20		40	16	18	495	55	11	70	3.0
NY-300/25A(B)	LGJ-300/25		40	16	18	510	55	11	80	3.1
NY-300/40A(B)	LGJ-300/40		40	16	18	540	55	11	90	3.25
NY-300/50A(B)	LGJ-300/50		40	18	18	560	65	12	100	3.4
NY-300/70A(B)	LGJ-300/70		12	22	22	600	70	13	120	3.7
NY-400/20A(B)	LGJ-400/20		45	14	18	540	50	11	85	3.6
NY-400/25A(B)	LGJ-400/25		45	14	18	555	55	11	90	3.7
NY-400/35A(B)	LGJ-400/35		45	16	18	570	65	12	100	4.0
NY-400/50A(B)	LGJ-400/50		45	20	20	595	70	13	120	4.5
NY-400/65A(B)	LGJ-400/65		48	22	22	625	70	13	130	5.0
NY-400/95A(B)	LGJ-400/95		48	26	24	665	80	15	160	6.0
NY-500/35A(B)	LGJ-500/35	Fig2	52	16	20	595	70	13	110	5.22
NY-500/45A(B)	LGJ-500/45		52	18	20	615	70	13	120	5.38
NY-500/65A(B)	LGJ-500/65		52	22	22	655	70	14	150	6.0
NY-630/45A(B)	LGJ-630/45		60	18	22	640	70	16	140	7.7
NY-630/55A(B)	LGJ-630/55		60	20	22	680	75	16	155	8.1
NY-630/80A(B)	LGJ-630/80		60	24	24	725	80	17	180	8.7

NLZ-2 DEADEND CLAMP



EP050

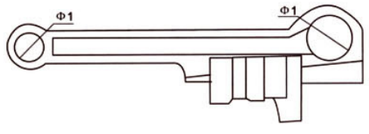


Type	Condutor Dia.(mm)	Dimensions(mm)			U-BOLTNO.	U.T.S(KN)	Weight(kg)
		L	C	D			
NLZ-1L	308-9.4	114	18	16	2	20	0.60
NLZ-2L	5.8-10.4	195	19	16	2	35	0.84
NLZ-3L	7.6-15.2	195	19	16	2	45	1.05
NLZ-4L	11.7-22.4	240	24	16	2	45	1.34

The body and keeper are made of hot-dip alloy aluminum

NXLH ALLOY ALUMINIUMSTRAIN CLAMP

EP051



Type catalog	Conductor(mm)	slip strength (KN)	U.T.S(KN)
NXLH-1	50-70	7.11	10.95
NXLH-2	95-120	12.02	19.45

Application

NXLH series alloy aluminium strain clamp is suitable for distribution line up to 10k connecting aerial aluminium conductor and pole tower

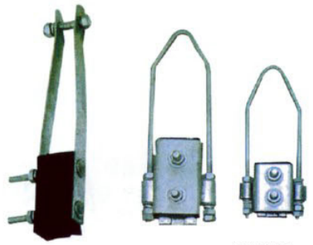
Products feature

◇The body is made of high strength tighten alloy aluminium

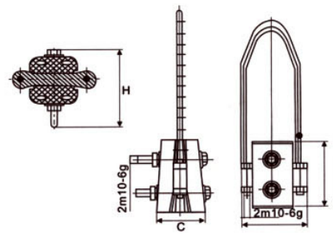
◇tighten structure,easy installation

◇no electric enengy loss

JNS 4 CORE CLUSTERED TYPE TENSION CLAMP



EP052



Application

JNS four-core-centralized strain clamp is suitable for the co-nductor

Performance

The clamp has designed four core parallel groove,after tighten up the bolt,have large grip strength.

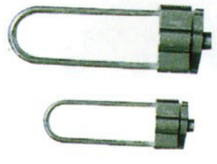
Applicable conductors as sheet	
Type	Conductor(mm²)
JNS-0	10-25
JNS-1	35-50
JNS-2	70-95
JNS-3	120-150

XHG SUSPENSION CLAMP FOR EXPORTING

EP053

Type	Conductor(mm²)	U.T.S(KN)
XHG-1	16-25	12KN
XHG-2	35-50	12KN
XHG-3	70-95	12KN

CJS-WEDGE STEEL STRAIN GLAMPS



EP054

Type	Conductor(mm²)	U.T.S(KN)
CSJ-1	16-25	2.7KN
CSJ-2	35-50	2.7KN
CSJ-3	70-95	5KN

NXJ-DR AERIAL INSULATION WEDGE TENSION CLAMP

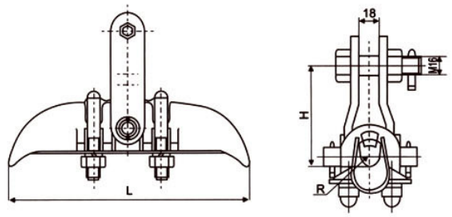
EP055

Type	Conductor(mm²)	A	L	L1	U.T.S(KN)	Weight(kg)
NXJ-DR1500	7-12	80	195	140	1.5KN	0.44

CGF SUSPENSION CLAMP

The body and keeper are made of malleable iron,cotter-pins are made of stainless steel.other part are made steel.All ferrous parts are hot-dip galvanized.

EP056

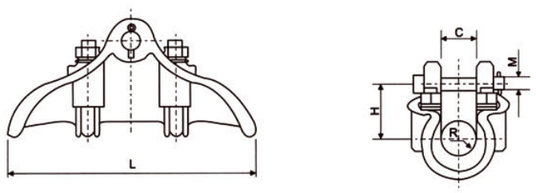


Catalog NO	Applicable Conductor Dia (mm)	Dimensions(mm)			Rated failure load (KN)	weight (kg)
		H	L	R		
CGU-1	5.0~7.0	82	180	4.0	40	1.4
CGU-2	7.1~13.0	82	200	7.0	40	1.8
CGU-3	13.1~21.0	102	220	11.0	40	2.0
CGU-4	21.1~26.0	110	250	13.5	40	3.0

CGH SUPENSION CLAMP

The clamp body and keepers are alloy aluminium,cotter-pin is stainless steel, the otheraparts are hot-dip galvanized steel.

EP057

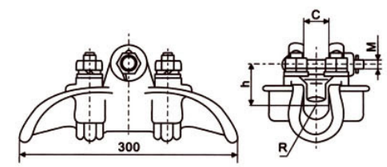


Catalog NO	Applicable Conductor Dia (mm)	Dimensions(mm)					Rated failure load (KN)	weight (kg)
		H	C	M	R	L		
CGU-3	12.7~18.5	62	22	16	10.5	180	50	1.10
CGU-4	17.8~22.0	62	27	16	13.0	203	50	1.55
CGU-6	23.0~35.0	80	38	16	18.0	235	60	2.00
CGU-8	30.0~42.5	85	47	16	23.0	245	70	2.15

CGF SUSPENSION CLAMP

The clamp body and keepers are alloy aluminium,cotter-pin is stainless steel,the other parts are hot-dip galvanized steel.

EP058

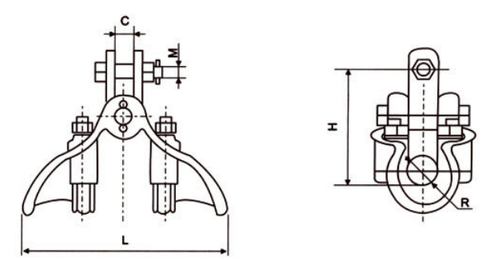


Catalog NO	Applicable Conductor Dia (mm)	Dimensions(mm)				Rated failure load (KN)	weight (kg)
		H	C	M	R		
CGF-4X	19.0~22.0	65	28	16	14	70	3.20
CGF-5XB	23.0~32.0	82	34	16	17	90	3.55

CGF SUSPENSION CLAMP(HUNG-DOWN TYPE)

The clamp body and keepers are alloy aluminium,cotter-pin is stainless steel,the other parts are hot-dip galvanized steel.

EP059

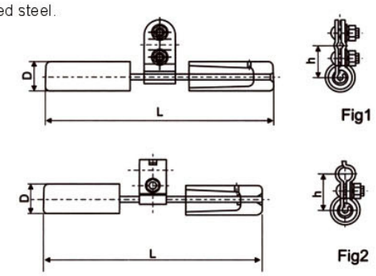


Catalog NO	Applicable Conductor Dia (mm)	Dimensions(mm)					Rated failure load (KN)	weight (kg)
		H	C	M	R	L		
CGF-5X	23.0~32.0	147	20	16	17	300	70	3.55
CGF-6X	33.0~43.0	168	20	18	23	300	90	4.00

FD、FG DAMPERS

Counter weights are grey iron.painted.the other parts are hot-dip galvanized steel.

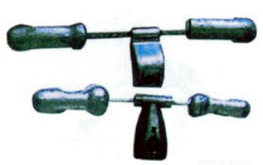
EP060



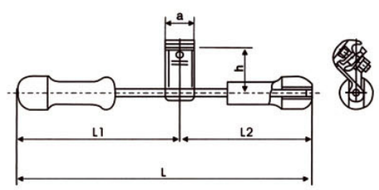
Catalog NO	Congductor cross section(mm²)		Fig	Dimensions(mm)			Weight(kg)
	Steel wire	AAC&ACSR		L	D	h	
FD-1		35～50	2	300	40	40	1.5
FD-2		70～95	1	370	46	55	2.4
FD-3		120～150	1	450	56	65	4.5
FD-4		185～240	1	500	62	70	5.6
FD-5		300～400	1	550	67	70	7.2
FD-6		500～630	1	550	70	75	8.6
FD-35	35		2	300	42	50	1.8
FD-50	50		2	350	46	50	2.4
FD-70	70		1	400	56	60	4.2
FD-100	100		1	500	62	65	5.9

FR DAMPERS

The clamp is alloy aluminium and counter weight are grey iron.The other part are hot-dip galvanized steel.



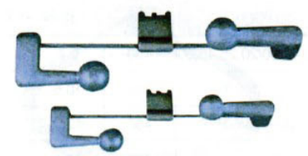
EP061



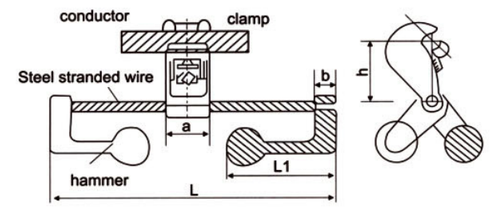
Catalog NO	Applicable Conductor Dia (mm)	Dimensions(mm)				Weight (kg)
		L1	L2	h	a	
FR-1	7.0～ 12.0	239	190	80	50	2.6
FR-2	11.0～22.0	239	190	80	50	2.6
FR-3	18.0～28.0	280	225	90	60	4.97
FR-4	23.0～36.0	300	250	97	60	4.50

FDZ DAMPERS

The clamp is alloy aluminium and counter weight are grey iron,the other part are hot-dip galvanized steel.



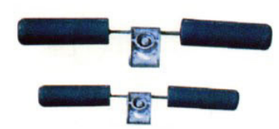
EP062



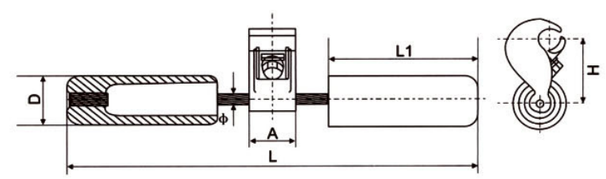
Catalog NO	Conductor(mm²)	Dimensions(mm)					Specification	Weight(kg)
		a	b	h	L1	L		
FDZ-1	35-50	50	33	51	120	320	19/1.8	1.8
FDZ-2	70-95	50	32	51	130	360	19/1.8	2.3
FDZ-3	120-150	55	42	62	150	450	19/2.2	4.5
FDZ-4	185-240	60	52	64	160	500	19/2.2	5.3
FDZ-5	300-400	60	60	87	180	550	19/2.6	6.5
FDZ-6	500-630	60	60	87	182	550	19/2.6	7.6

FF DAMPERS

The clamp is alloy aluminium and counter weight are grey cast irom,painted;the counter weight piece will be hot-dip galvanized,according to the customer's demand.



EP063

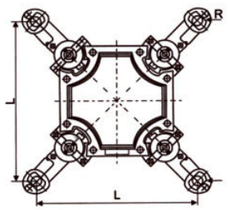


Catalog NO	Applicable Conductor (mm)	Dimensions(mm)					Slip strength	Weight(kg)
		D	A	H	L1	L2		
FD-1L	LGJ-35-50	40	50	81	300	95	7/2.6	1.5
FD-2L	LGJ-70-90	46	50	81	370	130	7/3.0	2.4
FD-3L	LGJ-120-150	56	50	81	450	150	19/2.2	4.5
FD-4L	LGJ-185-240	62	50	91	500	175	19/2.2	5.6
FD-5L	LGJ-300-500	67	50	96	550	200	19/2.6	7.2
FD-6L	LGJ-500-360	70	50	96	550	200	19/2.6	8.6
FD-5G	LGJ-300-400	67		90	550	200		

FJZ SQUARE FRAME SPACERS DAMPERS

The clamps and bracket are made of alloy aluminium,dampers are made of elastomer(DEMP)

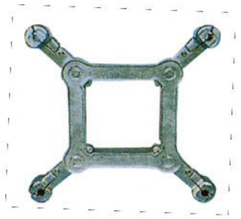
EP064



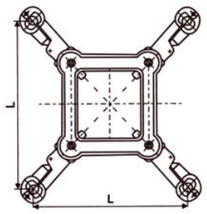
Catalog No	Applicable Conductor (mm)	Dimensions(mm)		Weight (kg)
		L	R	
FJZ-445F/300	LGJ-3000/20.25.40.50	450	9.7	7.8
FJZ-445F/300A	LGJ-300/70	450	10.6	7.8
FJZ-445F/400	LGJ-400/50.60	450	12.0	7.8
FJZ-445F/400A	LGJ-400/20.25.35	450	11.4	7.8
FJZ-445F/400B	LGJ-400/95	450	12.6	7.8

JZ4 SQUARE FRAME SPACERS DAMPERS

The clamps and bracket are made of alloy aluminium,dampers are made of elastomer(DEMP)



EP065

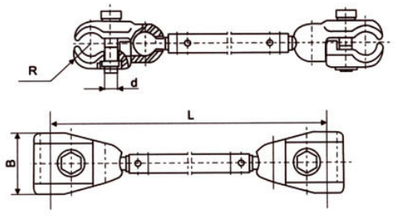


Catalog No	Applicable Conductor (mm)	Dimensions(mm)	Weight (kg)
		L	
JZF4-45300	23.0~24.5	450	7.5
JZF4-45300J	24.5~26.0	450	7.5
JZF4-45400	26.0~28.0	450	7.5
JZF4-45400J	28.1~29.5	450	7.5

FJQ SPACERS

The body and keeper are made of alloy aluminium, the other parts are hot-dip galvanized steel.

EP066

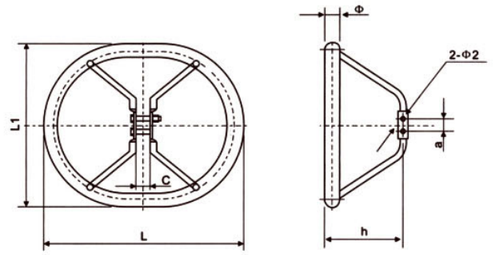


Catalog No	Applicable Conductor (mm)	Dimensions(mm)		Axial load ≥(KN)	Weight (kg)
		R	L		
FJQ-404	185~240	11.0	400	7	1.00
FJQ-405	300~400	14.5	400	10	1.20
FJQ-204	185~240	11.0	200	7	0.85
FJQ-205	300~400	14.5	200	10	1.05
FJQ-455	300~400	15.4	450	10	2.43

FJP-500N TYPE VOLTAGE DIVIDER RINGS AND SHIELDING RINGS

Made of aluminium tube.

EP068

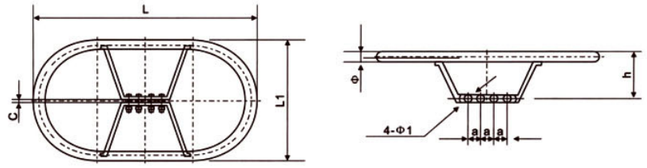


Catalog No	Dimensions(mm)							Weight (kg)
	L	L1	h	Φ	Φ1	c	a	
FJP-500XDA	800	700	320	50	18	20	80	4.3
JL-500XD	700	600	290	50	18	20	80	3.0
FJP-500XD1L	700	600	270	50	14	20	45	2.9
FJ-500XD/GH	700	600	290	60	14	20	80	6.8

FJP-500CS TYPE VOLTAGE DIVIDER RINGS

Made of aluminium tube

EP069



Catalog No	Dimensions(mm)							Weight (kg)
	L	L1	h	Φ1	Φ2	c	a	
JL-500XS	1050	600	230	50	18	24	60	4.3
LJ2-500XS	1050	600	230	50	18	22	60	4.3
FJ-500XS/GH	1050	600	230	60	14	22	60	10.0
FJ-500XS/GHE	1150	600	270	60	18	24	60	4.7
FJP-500XSL	1200	600	230	50	18	20	60	5.3
FJ-500XSL1	1200	600	230	50	18	22	60	5.3
FJ-500XSL2	1280	680	260	50	18	28	60	5.5
FJ-500XSL3	1280	680	285	50	18	44	60	5.6
FJ2-500XS/G	1150	600	230	60	18	24	60	4.7

FJH TYPE VOLTAGE DIVIDER RINGS

The body is aluminium,the other parts are hot-dip galvanized steel.

EP070

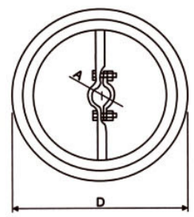


Fig 1

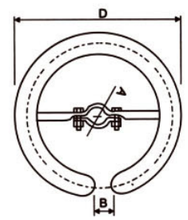


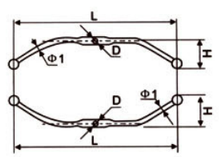
Fig 2

Catalog NO	Dimensions(mm)		Fig	Weight (kg)
	D	A		
FJH-500	400	F44	Fig1	1.5
FJH-330	330	F44		1.0
FJH-220	270	Φ44(Φ29)		0.75
FJH-110	250	Φ44(Φ29)		0.6
FJH-35	200	Φ44(Φ29)		0.6
FJH-500KL	400	Φ44(Φ29)	Fig2	1.4
FJH-330K	300	Φ44(Φ29)		0.95
FJH-220K	260	Φ44(Φ29)		0.70
FJH-110K	250	Φ44(Φ29)		0.55

ARCING HORN

Hot-dip galvanized steel.

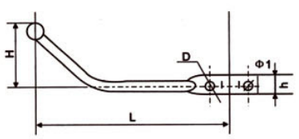
EP071

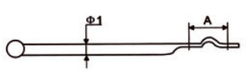


Catalog No	Dimensions(mm)					Recommend voltage(kV)	Weight (kg)
	D	H	K	Φ1	h		
ZH-01	14.5	197	712	16	114	138	1.20
ZH-02	4.5	197	762	16	114	161-230	1.26

ARCING HORN

Hot-dip galvanized steel.

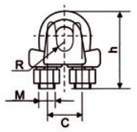




Catalog No	Dimensions(mm)						Recommend voltage(kV)	Weight (kg)
	A	D	H	L	Φ1	h		
ZH-11	60	14.5	197	365	16	114	138	1.15
ZH-12	60	14.5	197	385	16	114	161	1.20

GUY CLIPS

EP072

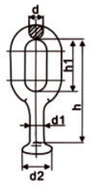


The body is malleable iron.the other parts are steel.all ferrous parts are hot-dip galvanized.

Type	steel wire dia(mm)		Dimensions(mm)				weight (kg)
	type	Outer dia.	M	R	C	H	
JK-1(10)	GJ-25-35	6.6-8	10	5	32	53	0.151
JK-2(12)	GJ-50-70	9.0-11.5	12	7	26	60	0.222
JK-3(15)	GJ-100-120	12.5-14.0	14	8	31	74	0.356

BALL EYES

EP073

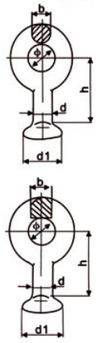


Hot-dip galvanized steel

Type	Dimensions(mm)					Designated size of coupling	Rated failure load (KN)	Weight (kg)
	d	d1	d2	h	h1			
QH-7	16	17	33.3	114	57	16	70	0.6
QH-10	18	17	33.3	110	60	16	100	1.1
QH-12	19	17	33.3	90	45	16	120	1.1
QH-16	18	21	41.0	127	80	20	160	1.3
QH-20/16	22	21	41.0	135	85	20	160	1.5
QH-21	20	21	41.0	150	80	20	210	1.3
QH-30	22	25	49	150	98	24	300	1.7

BALL EYES

EP074

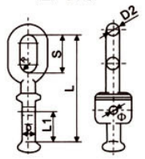


Hot-dip galvanized steel

Type	Dimensions(mm)					Designated size of coupling	Rated failure load (KN)	Weight (kg)
	d	Φ	b	d1	h			
Q-7	17	22	16	33.3	50	16	70	0.3
QP-7	17	20	16	33.3	50	16	70	0.3
QP-10	17	20	16	33.3	50	16	100	0.3
QP-12	21	24	20	41.0	60	20	120	0.5
QP-12G	17	24	17	33.3	60	16	120	0.4
QP-16	21	26	20	41.0	60	20	160	0.5
QP-16G	21	26	18	41.0	60	20	160	0.5
QP-20	25	30	24	49.0	80	24	200	1.0
QP-21D	21	30	24	41.0	70	20	210	0.9
QP-30	25	39	28	49.0	80	24	300	1.1
QP-2120G	21	26	20	41.0	80	20	210	0.7
QP-3224G	25	33	28	49.0	80	24	320	1.2
QP-4228G	29	39	32	57.0	100	28	420	1.5

BALL EYES (PARALLEL TYPE.HORE HOLDER TYPE)

EP075



Hot-dip galvanized steel

Type	suitable insulator	Dimensions(mm)							Designated size of coupling	Rated failure load(KN)	Weight (kg)
		L	L1	D1	D2	S	R	Φ			
Q-7N	xp-7	165	48	17	16	56	12.5	14	16	70	1.2
Q-10N	xp-10	165	48	17	16	56	12.5	14	16	100	1.3
Q-12N	xp-12	165	48	17	16	56	12.5	14	16	120	1.5
Q-16N	xp-16	176	48	20	20	80	15	14	20	160	1.8

U-BOLTS

The cotter pin are stainless,the other parts are hot-dip galvanized steel.

EP076

Fig1

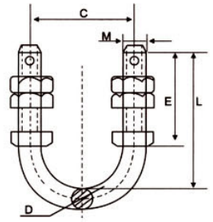
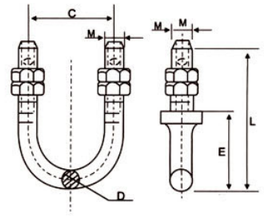


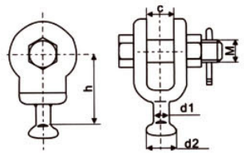
Fig2



Type	Dimensions(mm)					Fig	rated failure load (KN)	Weight (kg)
	C	K	E	L	M			
U-1240	40	12	45	80	12	Fig1	35	0.38
U-1440	40	14	60	90	14		35	0.42
U-1470	70	14	70	120	14		40	0.46
U-1670	70	16	65	130	16		50	0.66
U-1870	70	18	80	130	18		60	0.86
U-1880	80	18	60	130	18		60	0.88
U-1890	90	18	60	140	18		60	0.90
U-2070	70	20	90	130	20		70	1.20
U-2080	80	20	70	140	20		70	1.70
U-2090	90	20	90	150	20		70	1.28
U-2280	80	22	90	150	22		100	1.3
U-2290	90	22	100	160	22		100	1.34
U-1880	80	18	39	130	18	Fig2	60	0.88
U-2080	80	20	43	140	20		70	1.08
U-2080	80	22	45	150	22		100	1.28

BALL CLEVIS

EP077

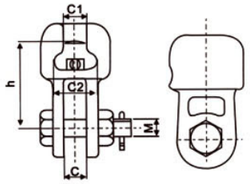


Hot-dip galvanized steel

Type	Dimensions(mm)					Designated size of coupling	Rated failure load(KN)	Weight (kg)
	h	d1	D2	M	C			
Q-7U	89	17	33.3	16	18	16	70	0.9
Q-12U	94	17	33.3	22	22	16	120	1.00
Q-16U	78	21	41.0	24	24	20	160	1.00
Q-16UA	80	21	41.0	24	26	20	160	1.12
Q-21U	102	21	41.0	27	30	20	210	1.35
Q-30U	110	25	49.0	36	38	24	300	2.14

SOCKET-CLEVLS EYE

EP078

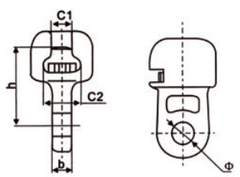


The socket-devis eyes are malleable iron or casting steel,these curity dips are borinze or stainless steel, cotter pins are stainless,ferrous parts are hot-dip galvanized.

Type	Dimensions(mm)					Designated size of coupling	Rated failure load(KN)	Weight (kg)
	B	C1	C2	H	Φ			
W-7A	16	19.2	34.5	70	20	16	70	0.8
W-7B	16	19.2	34.5	115	20	16	70	0.92
W1-12	18	19.2	34.5	85	20	16	100	0.9
W2-12	20	19.2	34.5	90	24	16	120	1.3
W-12	20	23	42.5	90	24	20	120	1.4
W-30	32	27.5	51.0	110	39	24	300	3.5

SOCKET-CLEVLS EYE

EP079

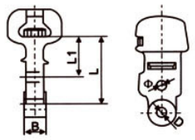


The socket-clevis eyes are malleable iron or casting steel,these curity clips are bronze or stainless steel,cotter pins are stainless,ferrous parts are hot-dip galvanized.

Type	Dimensions(mm)					Designated size of coupling	Rated failure load(KN)	Weight (kg)
	C	C1	C2	M	H			
WS-7	18	19.2	34.5	16	70	16	70	0.97
WS-10	20	19.2	34.5	18	85	16	100	1.70
WS-12G	20	19.2	34.5	18	85	16	120	1.70
WS-12	24	23.0	42.5	22	90	20	120	3.81
WS-12X	24	19.2	34.5	22	90	16	120	3.10
WS-12A	20	19.2	34.5	22	85	16	120	1.80
WS-16	26	23.0	42.5	24	95	20	160	2.64
WS-20	30	27.5	51.0	27	100	24	200	4.30
WS-20DF	30	23.0	42.5	27	100	20	200	4.50
WS-30	36	27.5	51.0	36	110	24	300	5.70
WS-16G	22	23.0	42.5	24	95	20	160	2.64
WS-21G	24	27.5	51.0	24	100	24	210	3.50
WS-32G	32	27.5	51.0	30	110	24	320	4.80
WS-42G	36	32.0	59.0	36	120	28	420	5.60

W-8K SOCKET EYE

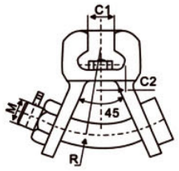
EP080



W1-7k socket eye is malleable iron.W1-12k socket eye is casting steel.the security clips are bronze or stainless steel.All ferrous parts are hot-dip galvanized.

Type	Suitable insulator	Dimensions(mm)					Rated failure load(KN)	Weight (kg)
		L	L1	B	D	Φ		
W1-7k	xp-7 xp-4.5	120	70	20	18	14	70	1.0
W1-8k	xp-7	120	70	20	18	14	80	1.2
W1-12k	xp-12	120	70	20	24	14	120	3.0

SOCKET-CLEVIS EYE

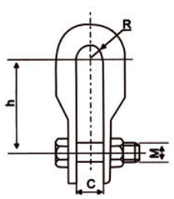


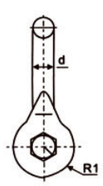
The socket-clevis eyes are orcasting steel,these curity clips are bronze or stainless steel,cotter pins are stainless,frrous parts are hot-dip galvanized.

Type	Dimensions(mm)				Designated size of coupling	Rated failure load(KN)	Weight (kg)
	C	C1	M	R			
WSY-21	23.0	42.5	27	100	20	210	4.1
WSY-30	27.5	51.0	30	110	24	300	4.9

U-SHACKIES

EP081

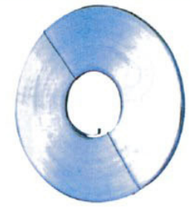




The cotter pin are stainless steel,the other parts are hot-dip galvanized steel.

Type	Dimensions(mm)						Rated failure load(KN)	Weight (kg)
	C	M	D	H	R	R1		
U-7	20	16	16	80	10	22	70	0.50
U-10	22	18	18	85	11	24	100	0.60
U-12	24	22	20	90	12	30	120	1.00
U-16	26	24	22	95	13	32	160	0.47
U-20	30	27	24	100	15	36	200	2.30
U-25	34	30	26	110	17	40	250	2.80
U-30	38	36	30	130	19	46	300	3.70
U-30G.1	38	30	30	115	19	46	300	3.00
U-40	42	42	34	140	21	50	400	6.30
U-50	44	42	36	150	22	55	500	7.00
U-50G.1	40	36	36	190	20	55	500	6.55
U-60	50	48	38	210	25	58	600	10.75
U-60A	46	42	42	195	23	58	600	7.50
U-21G	24	24	22	112	12	36	210	1.50
U-32G	32	30	28	115	16	46	320	3.00
U-42G	36	36	32	130	18	50	420	4.60
U-50G	36	36	34	140	18	55	500	5.30

FLD ALUMINIUM ARMOR TAPE

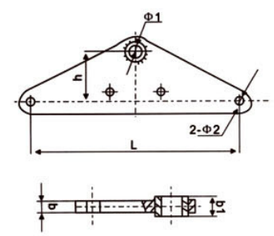


EP082

Type	Specification	Weight(kg)	
		kg/m	m/kg
FLD-1	1×10	0.027	37

YOKE PLATES

EP083

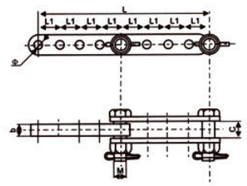


Hot-dip galvanized steel.

Catalog No	Dunebsuibs(mm)						Rated failure load(KN)	Weight (kg)
	b	b1	h	Φ1	Φ2	L		
L-1040	16	16	70	20	18	400	100	4.43
L-1240	16	16	70	24	18	400	120	4.66
L-1640	18	18	100	26	20	400	160	5.80
L-2140	18	18	100	30	20	400	200	6.90
L-2050	16	26	100	30	26	520	200	8.00
L-2055	16	26	200	30	24	550	200	11.80
L-2540	16	30	110	33	24	400	250	9.00
L-3040	18	32	110	39	26	400	300	10.00
L-4255	24	38	250	45	30	550	420	24.40
L-5040	30	38	110	45	33	400	500	14.80
L-6040	32	42	200	51	39	450	600	25.50
L-6050	32	42	250	51	39	500	600	23.30

PA ADJUSTER PLATES

EP084



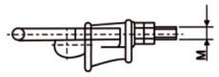
The cotter pin are stainless steel,the other parts are hot-dip galvanized steel.

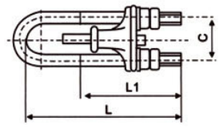
Catalog No	Dunebsuibs(mm)							Holding strength (KN)	Weight (kg)
	L1	L2	M	Φ	b	c	L		
PT-7	45	60	16	18	16	18	225 345	70	2.10
PT-10	50	65	18	20	16	20	250 390	100	3.00
PT-12	60	75	22	24	16	24	300 465	120	5.20
PT-16	65	80	24	26	18	26	325 505	160	7.00
PT-32	70	90	27	30	26	30	350 550	210	10.0
PT-30	80	100	36	39	32	38	400 630	300	16.00
PT-50	160	100	42	45	38	40	470 1280	500	24.2
PT-60	180	100	48	51	42	44	820 1390	600	31.0

NUT、NU CLAMP(ADJUSTABLE TYPE)

The body and wedge are malleable iron.The cotter pin is stainless steel,the other parts are steel,all ferrous parts are hot-dip galvanlzed.

EP085

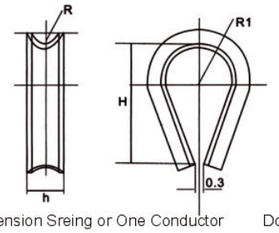




Catalog No	Steel wire dia(mm)	Dimensions(mm)				Rated failure load(KN)	Weight (kg)
		C	M	L	L1		
NUT-1	6.6-73.8	56	16	370	200	45	2.1
NUT-2	9.0-11.0	62	18	450	250	88	3.2
NUT-3	13.0-14.0	74	22	500	300	143	5.4
NUT-4	15.0-16.0	82	24	580	350	164	7.2

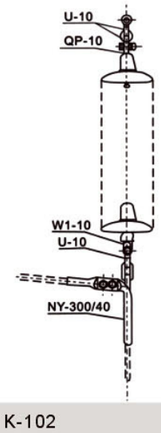
SHACKLES

EP086

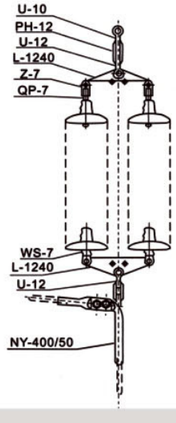


Type	Dimensions(mm)				Conductor (mm)
	R	R1	H	h	
WF-12	6	14	65	18	6-12
WF-14	7.5	16	78	20	8-14

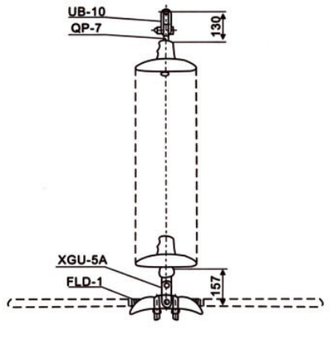
Single Tension Sreing or One Conductor



Double Tension Striing or One Conductor



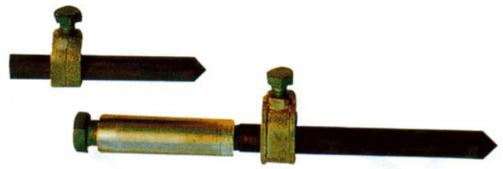
Single Suspension String for One Conductor

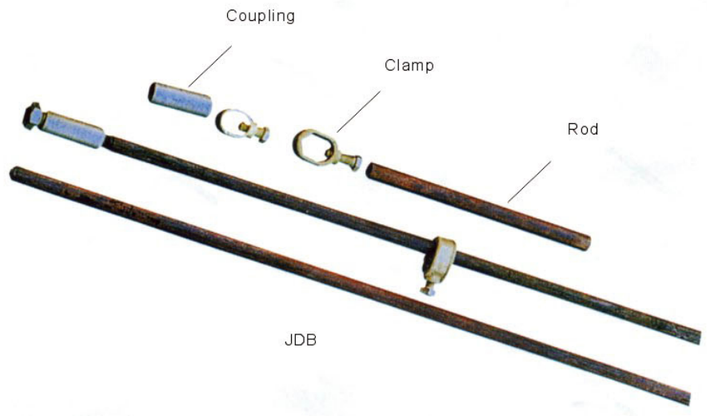


QPZ Imported Ball Type Lightning Rod,JDB Earth Rod Clamp

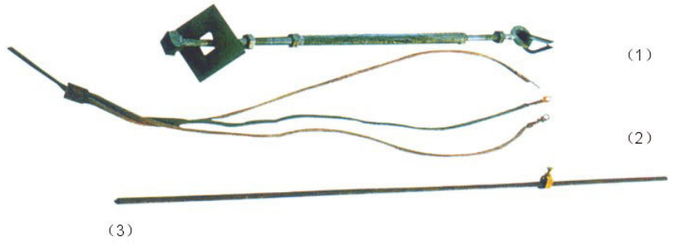
It is suitable for anti-lighting on top of high building,made of copper tube.

QPZ





JDB



(1)Stay rod
size:6″×Φ18
8″×Φ18
6″×Φ20
8″×Φ20
(2)Rod line
size:10m20m
(1)Earth rod
size:Φ10mΦ12mΦ14mΦ15m
Φ6mΦ18mΦ20mΦ25m

Heliformed Line Fittings

Heliformed dead end clamp

The equipment covered in this catalogue section should be installed,used,and serviced by professional person who very familiar with this products.This equipment is for use by above person and is not intended as a substitute for adequate training and experience in safe procedures for this type of equipment.This catalog information do not cover all details or situations in equipment use,or they provide for every possible contingency to be encountered in relation to installation ,operation or maintenance,it should additional information and details be desired,or if specific situations arise which are not covered adequately for the use's purpose,the specifics should be referred to Laurence Power Equipment Co.,LTD.

The Heliformed Line Fittings was including:

Armor Rods are recommended as minimum protection for clamp-type supports or suspensions.

Line Guards are recommended as minimum protection for hand-tied spans.The use of supplementary damping devices,such as Spiral Vibration Dampers,should be considered when conductor vibration is present or expected.

Heliformed Ties are recommended as being superior to armor-hand tie combinations in providing protection from abrasion,and equivalent in providing protection from vibration fatigue.

Suspension clamp is recommended as being superior to armorclamp combinations in providing protection from benging stress,compression stress and abrasion.

Repair Armor Rods. Armor Rods may be used to restore full conductance and strength to ACSR and aluminum conductors where damage does not exceed approximately 50 percent of the outer strand layer,Consult Factory for repair capability of specific standings.

NOTE:When Armor Rods are used to repair damaged aluminum-based conductors,the following applicati on steps are required for optimum electrical repair:

Step 1:Thoroughly wire-brush damaged conductor for the full length of the Armor Rods to be applied.

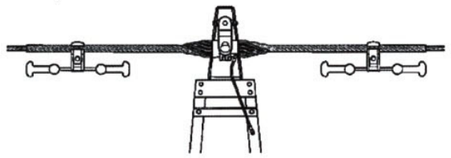
Step 2:Apply a gritted inhibitor to the full length of this area before applying the Armor Rods.

Tapping.

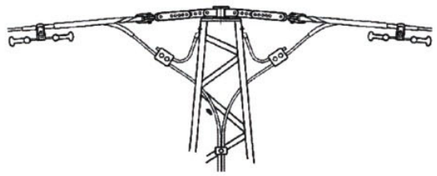
Tapping over applied aluminum Armor Rods is permissible .Where it is known that tapping clamps will be installed over Armor Rods,it is recommended that the conductor be thoroughly wire brushed clean,and then and inhibitor is applied.

Inspection.

After application of the correct number of rods per set,a slight gap between rods should be present.Consult the General Information Section for detailed explanation.



View of suspension point with C-shaped bracket



View of tension point with down lead clamps

Loop Configuration

Open Looped and Cable looped Dead ends can be provided.

Open Looped may be regarded as standard and suitable for small size conductors.

Cable looped

Open looped

Length of dead ends.

Heliformed Deadends have two lengths,Overall Length and Applied Length,the latter being the length from the cross over marks. (See fig 1).The cross over mark,(See fig 2)shows the starting point for application of the deadends.

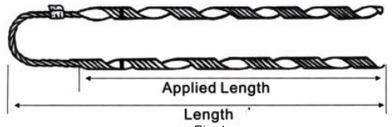


Fig 1

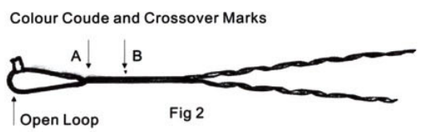
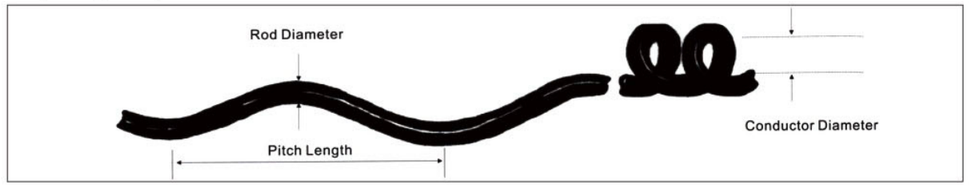


Fig 2

Heliformed dead end clamp

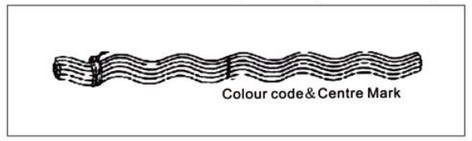
Pitch length

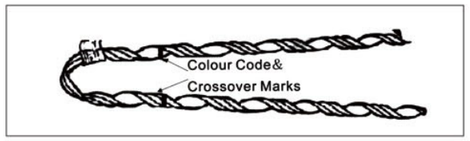
The pitch length is equal to a full circle with the dead ends.



The color code

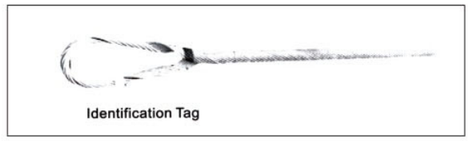
The color code at this cross over point is as per the stranding of the conductor.

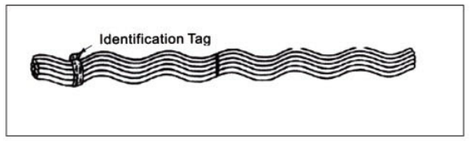




An identification tag

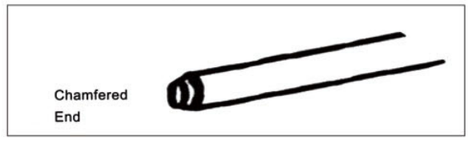
An identification tag is attached to the loop area of the fitting,and displays the Range of Applications and/or stranding details.

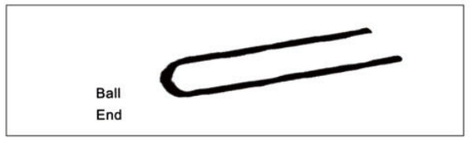




End finish

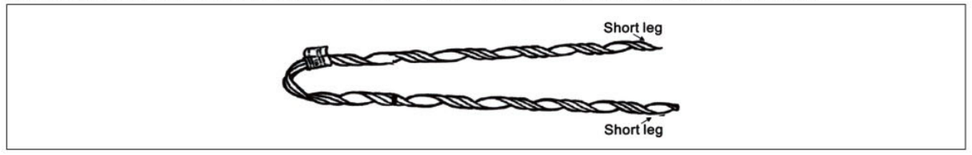
Depending on the voltage,ends of the individual rods may be chamfered end and ball ended.





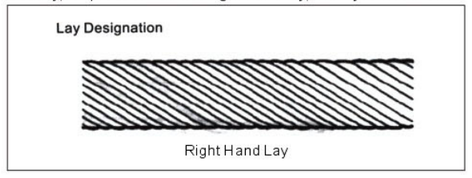
Short leg&long leg

After the installation,please check the short leg and long leg with every dead ends.The short leg has to install firstly.

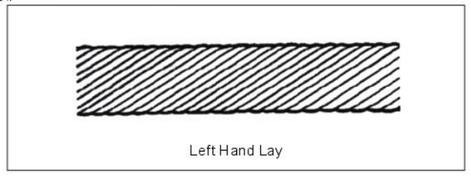


Lay designation

Usually,our product was use right hand lay,and if you need left hand lay,please inform us in advance.



Right Hand Lay

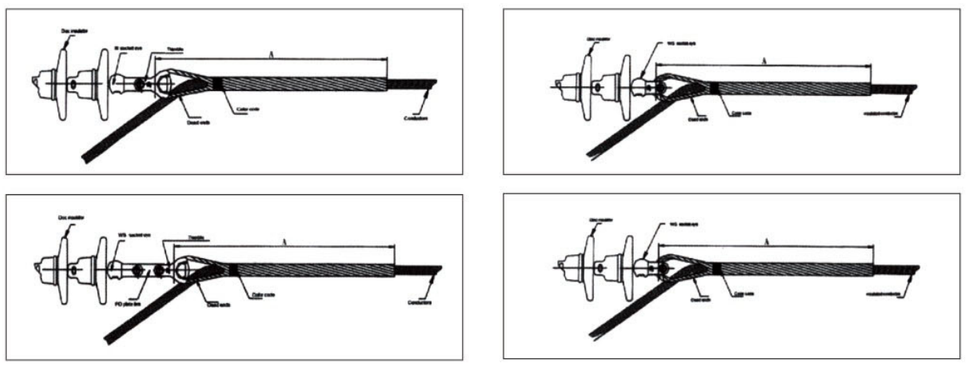


Left Hand Lay

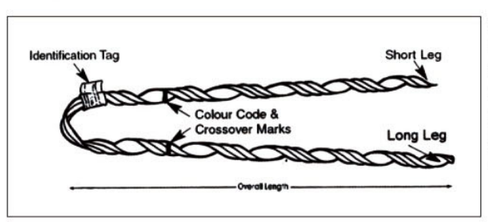
Heliformed dead end clamp

Heliformed dead-ends,manufactured of aluminum covered steel or galvanized steel,is designed for single-pole distribution construction.
Mechanical strength meets the requirements of primaries,secondaries,and substation feeder.
Heliformed dead-end is recommended for direct application over plastic jacketed(not fabric covered) conductor.
Coated dead-ends are also recommended for jacketed conductor.
The Heliformed dead-ends is designed to grip the conductor uniformly to prevent distortion of the conductor.It also offers a unique design that eliminates bolts ,nuts,washers and other component parts that may become lost or damaged during installation or in service.
During installation,and at all times,care should be taken to avoid gouging or damaging the coating of the Heliformed dead-end or the conductor itself.Heliformed dead-ends should not be used as tools;for example come-alongs,puling-in grips,etc.Tools are not required nor recommended to install Heliformed dead-ends, except for hot stick applications.
Safe Considerations
1.This product is intended for a single(one-time)use and for the specified application
2.This product is intended for use by trained craftspeople only. This product should not be used by anyone who is not familiar with and trained in the use of it.
3.When working in the area of energized lines with this product,extra care should be taken to prevent accidental electrical contact.
4.For proper performance and personal safety be sure to select the proper size with preformed Armor Rods and clamps according the conductors size before application.
5.Dead ends are precision devices.To insure proper performance.they should be stored in cartons under cover handled carefully.
6.The Dead ends are simple installation,except the need the screwdriver to separated the conductor ends,usually needn't any other tools , just install by hand.

The different connect type with various fitting.



The over head 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 have was used for 1kV 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 flollowing tables.



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

Heliformed dead end clamp

For ACSR conductor

Catalogue number	Conductors GBT117199/83 LGJ/LGJF		Length	Pieces
	Section(mm^2)	O.D(mm)		
LNL-16/3	16/3	5.55	444	3
LNL-25/4	25/4	6.96	546	3
LNL-35/6	35/6	8.16	622	3
LNL-50/8	50/8	9.60	685	3
LNL-70/10	70/10	11.4	736	3
LNL-95/15	95/15	13.61	876	4
LNL-95/20	95/20	13.87	876	4
LNL-120/7	120/7	14.5	876	4
LNL-120/20	120/20	15.07	889	4
LNL-120/25	120/25	15.74	889	4
LNL-150/8	150/8	16.00	889	4
LNL-150/20	150/20	16.67	1016	5
LNL-150/25	150/25	17.10	1016	5
LNL-150/35	150/35	17.5	1016	5
LNL-185/10	185/10	18.00	1016	5
LNL-185/25	185/25	18.88	1155	6
LNL-185/30	185/30	18.90	1155	6
LNL-185/45	185/45	19.00	1155	6
LNL-210/10	210/10	19.60	1155	6
LNL-210/25	210/25	19.98	1155	6
LNL-210/35	210/35	20.38	1155	6
LNL-210/50	210/50	20.86	1155	6
LNL-240/30	240/30	21.60	1270	8
LNL-240/40	240/40	21.66	1270	8
LNL-300/15	300/15	23.04	1270	8
LNL-300/20	300/20	23.43	1270	8
LNL-300/25	300/25	23.76	1442	10
LNL-300/40	300/40	26.94	1442	10
LNL-300/50	300/50	24.26	1442	10

For 10kV insulated conductor

Catalogue number	10kV conductor GB/14049-93JKLYJ		Length
	Section(mm^2)	O.D(mm)	
LNL-10-35/JY	35	14.8	890
LNL-10-50/JY	50	16.10	890
LNL-10-70/JY	70	17.80	980
LNL-10-95/JY	95	19.60	1016
LNL-10-120/JY	120	21.00	1016
LNL-10-150/JY	150	22.60	1016
LNL-10-185/JY	185	24.20	1016
LNL-10-240/JY	240	26.40	1016

Heliformed dead end clamp

For AAC conductor

Catalogue number	Conductor LJ GB/T1179-1983		Length mm	Color code
	Section(mm^2)	O.D(mm)		
LNL-16/LJ	16	4.62-5.16	406	Blue
LNL-25/LJ	25	5.8-6.53	444	Orange
LNL-35/LJ	35	7.35-8.26	622	Red
LNL-50/LJ	50	8.27-9.25	685	Green
LNL-70/LJ	70	10.4-11.28	736	Blue
LNL-95/LJ	95	11.69-13.11	800	Orange
LNL-120/LJ	120	13.12-14.66	876	Red
LNL-150/LJ	150	14.67-16.59	889	Black
LNL-185/LJ	185	16.6-18.77	1016	Green
LNL-210/LJ	210	16.6-18.77	1016	Green
LNL-240/LJ	240	18.78-21.26	1155	Orange
LNL-300/LJ	300	21.27-24.05	1270	Blue
LNL-400/LJ	400	24.06-27.2	1422	brown
LNL-500/LJ	500	27.21-30.78	1651	orange

For AS conductor

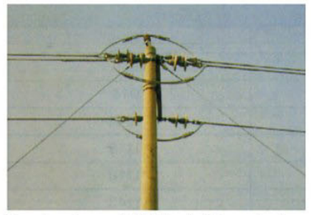
Catalogue number	Conductor YB/T5004-1993		Length mm	Color code
	Section(mm^2)	O.D(mm)		
NL-25/G	25	6.6	635	Yellow
NL-35/G	35	7.65-7.95	711	Black
NL-50/G	50	8.95-9.30	901	Orange
NL-70/G	70	10.82-11.10	1016	Green
NL-95/G	95	12.5	1333	Orange
NL-100/G	100	13	1333	Yellow
NL-120/G	120	14	1460	Yellow

Installation:

Dead ends on 110kV for ACSR conductor

Dead ends on 10kV for ACSR conductor

Dead ends on 10kV for AAC conductor



Dead ends on 10kV for AAC conductor

Dead ends on 10kV for insulated conductor

Heliformed suspension clamp

Use Description

Heliformed Suspension clamp is intended for use on aluminum based conductors, Aluminum Coated Steel Conductor and galvanized steel strands. It is designed to reduce the static and dynamic stresses at the support point, so that the conductor or strand is protected against the effects of oscillations.

It also protects the conductor in the support against impulse and power flash-over.

Application

1.for the reduction of static stresses at conductor suspension points and to provide greater protection to conductors against the dynamic stresses of Aeolian vibration.

2.To give conductors protection against impulse and flash-over.

3.To protect conductors against abrasion, bending and compression stresses. The protection offered by heliformed suspension clamp fittings is superior to armor-clamp combinations.

4.To install line angles up to and including 30° and through use of double units, up to 60° .

5.For proper performance and personal safety be sure to select the proper size with preformed Armor Rods and clamps according the conductors size before application.

6.Dead ends are precision devices. To insure proper performance, they should be stored in cartons under cover and handled caretully.

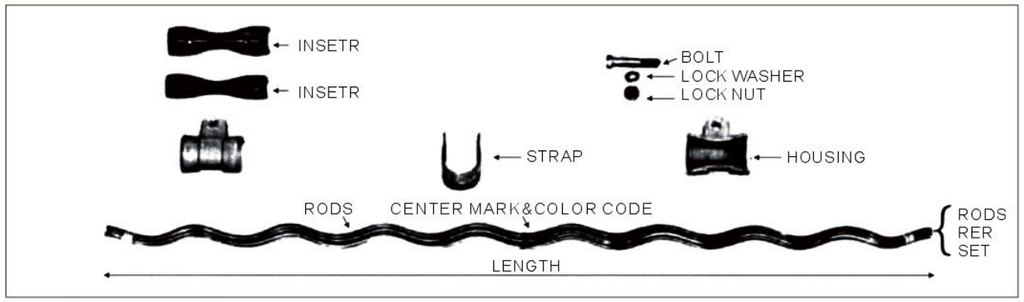
7.If you have any question please contact with Laurence Electric Power Equipment Co.,Ltd.

Safety Considerations

1.This product is intended for a single(one-time)use and for the specified application.

2.This product is intended for use by trained craftspeople only. This product should not be used by used by anyone who is not familiar with and trained in the use of it.

3.When working in the area of energized lines with this product, extra care should be taken to prevent accidental electrical contact.



Bolt, Washer, Lock Nut: Galvanized Steel.

Strap: Galvanized Steel for conductor dia. Range 6.91-12.70mm High-Strength Aluminum Alloy for conductor dia. Range 12.24-56.72mm.

Insert: An elastomer specifically formulated for resistance to ozone attack, weathering, extreme high and low temperature variations, and compression set, Aluminum alloy reinforcement is molded into the elastomer insert.

Housing: Galvanized Steel Stamping for cable dia. Range 6.91-12.70mm.

High-Strength Aluminum Alloy Casting for conductor dia. range 12.24-56.72mm.

Rods: Aluminum Clad Steel for ACSR diameter Range 7.72-12.23mm Aluminum Alloy for ACSR diameter Range 6.91-12.70mm. Aluminum Clad Steel for Aluminum Coated Steel Conductor diameter Range 6.91-12.70mm Galvanized Steel for Galvanized Steel Conductor diameter Range 6.91-12.70mm Standard Armor Rods have dimensions which are different from Rods for suspension clamp and cannot be substituted.

For ACSR conductor

Catalogue number	Conductor LJ GB/T1179-1983		Length
	Cross Section	O.D(mm)	
LCL-35/6	35/6	8.16	660
LCL-50/8	50/8	9.60	660
LCL-70/10	70/10	11.40	914
LCL-95/15	95/15	13.61	1041
LCL-95/20	95/20	13.87	1118
LCL-120/7	120/7	14.50	1118
LCL-120/20	120/20	15.07	1143
LCL-120/25	120/25	15.74	1168

Heliformed suspension clamp

LCL-150/8	150/8	16.00	1270
LCL-150/20	150/20	16.67	1372
LCL-150/25	150/25	17.10	1372
LCL-150/35	150/35	17.50	1372
LCL-185/10	185/10	18.00	1372
LCL-185/25	185/25	18.90	1422
LCL-185/30	185/30	18.88	1422
LCL-210/10	210/10	19.00	1422
LCL-180/45	180/45	19.60	1524
LCL-210/25	210/25	19.98	1524
LCL-210/35	210/35	20.38	1549
LCL-210/50	210/50	20.86	1549
LCL-240/30	240/30	21.60	1626
LCL-240/40	240/40	21.66	1626
LCL-240/55	240/55	22.40	1651
LCL-300/15	300/15	23.01	1651
LCL-300/20	300/20	23.43	1676
LCL-300/25	300/25	23.76	1676
LCL-300/40	300/40	23.94	1702
LCL-300/50	300/50	24.26	1702
LCL-300/70	300/70	25.20	1753
LCL-400/20	400/20	26.91	2083
LCL-400/25	400/25	26.64	2083
LCL-400/35	400/30	26.82	2083

For AAC conductor

Catalogue number	Conductor LGJ/LGJF GB 1179-1983		Length(mm)	Color code
	Section(mm^2)	O.D(mm)		
LCL-95LJ	95	12.24-12.69	1016	red
LCL-120LJ	120	14.11-14.56	1118	white
LCL-150LJ	150	15.75-16.39	1270	red
LCL-185LJ	185	17.11-17.54	1372	green
LCL-210LJ	210	18.59-19.00	1422	white
LCL-240LJ	240	19.52-20.10	1524	orange
LCL-300LJ	300	22.10-22.69	1651	green
LCL-400LJ	400	25.55-25.97	2032	purple
LCL-500LJ	500	28.88-29.26	2083	white
LCL-630LJ	630	32.00-32.67	2235	blue
LCL-800LJ	800	36.64-37.52	2235	orange

Double Heliformed suspension clamp

Double suspension clamp for ASCR&AAC

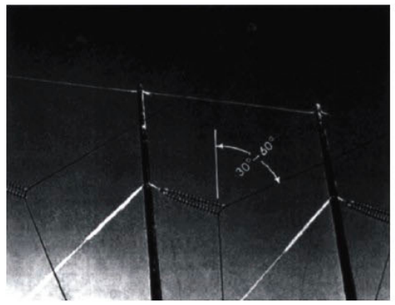
Catalogue number	Conductor O.D (mm)	Conductor	
		ACSR LGJ/LGJF	ACC LJ
TCLD-50/30	9.6	50/8	
TCLD-70/10	11.4	70/10	
TCLD-95/15	13.61	95/15	
TCLD-95/20	13.87	95/20	
TCLD-120/7	14.5	120/7	120
TCLD-120/20	15.07	120/20	
TCLD-120/25	15.74	120/25	
TCLD-150/8	16	150/8	150
TCLD-150/20	16.67	150/20	
TCLD-150/25	17.1	150/25	
TCLD-150/35	17.5	150/35	
TCLD-185/10	18.04	185/10	185
TCLD-185/25	18.9	185/25	
TCLD-185/30	18.88	185/30	
TCLD-185/45	19.6	180/45	
TCLD-210/10	19	210/10	
TCLD-210/25	19.98	210/25	
TCLD-240/30	21.6	240/30	210
TCLD-240/40	21.66	240/40	
TCLD-240/55	22.4	240/55	
TCLD-300/15	23.01	300/15	240
TCLD-300/20	23.43	300/20	
TCLD-300/25	23.76	300/25	
TCLD-300/40	23.94	300/40	300
TCLD-300/50	24.26	300/50	
TCLD-300/70	25.2	300/70	
TCLD-400/20	26.91	400/20	
TCLD-400/25	26.64	400/25	
TCLD-4700/35	26.82	400/35	
TCLD-400/50	27.3	400/50	
TCLD-400/65	27.69	400/65	
TCLD-400/95	29.26	400/95	500

The Design Modifications of single suspension clamp or double suspension clamp

For line angles between30° and 60°, use the double support arrangement with the insulator strings connected directly to the heliformed suspension clamp.

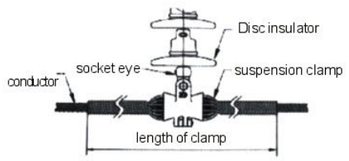
Double Heliformed suspension clamp

Shown below is the heliformed Suspension clamp:
Single as used for line angles between0° and 30° .

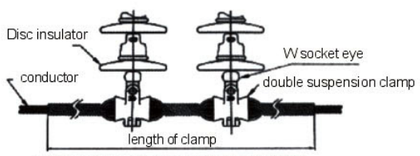


Shown below is the heliformed Suspension clamp:
Double as used for line angles between30° and 60° .

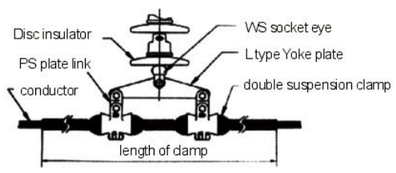
The different connect type with various fitting:



heliformed suspension clamp single clamp

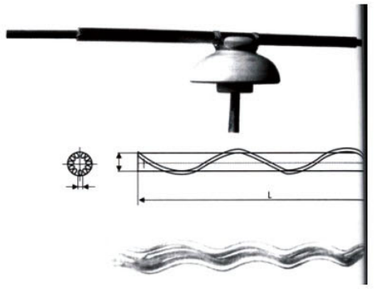


heliformed suspension clamp double clamp



heliformed suspension clamp double clamp

Heliformed armor rod



Armor Rods are intended to protect against bending, compression, abrasion, arc-over, and to provide repair.
The degree of protection needed on a specific line depends upon a number of factors such as line design, temperature, tension, exposure to wind flow, and vibration history on similar construction in the same area. As a general guide, the following recommendations may be adopted to the specific conditions.
Armor Rods are recommended as minimum protection for clamp-type supports or susper
Line Guards are recommended as minimum protection for hand-tied spans.The use of supplementary damping devices, such as Spiral Vibration Dampers, should be considered whenconductor vibration is present or expected.
Safety considerations
1.This product is intended for a single(one-time) use and for the specified application.
2.This product is intended or use by trained craftspeople only. This product should not be used by anyone who is not familiar with and tranined in the use of if.
3.When working in the area of energized lines with this Product, extra care should be taken to prevent Accidental electrical contact.
4.For proper performance and personal Safety be sure to select the proper size Performed armor rods before application.
5.Preformed armor rods are precision devices. To insure proper performance, they should be stored in Cartons under cover and handled carefully.
6.The armor rod can use with much fitting.
7.If you have any question please contact with Laurence Electric Power Equipment Co.,Ltd.

For ACSR conductor

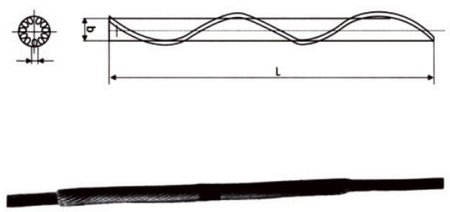
Catalogue number	Suitable conductor GB1179-83			Dimensions (mm)			Weight (kg)
	ACSR LGJ/LGJF	LGJJ	AAC/LJ	D	d	L	
FYH-95/15	LGJ -95/15			3.6	11.4	1400	0.5
FYH-95/20	LGJ -95/20			3.6	11.4	1400	0.5
FYH-95/55	LGJ -95/55			3.6	13.3	1500	0.6
FYH-120/7	LGJ -120/7		120	3.6	12.0	1400	0.6
FYH-120/20	LGJ -120/20			3.6	12.5	1400	0.6
FYH-120/25	LGJ -120/25			3.6	13.0	1400	0.6
FYH-120/70	LGJ -120/70			4.6	14.9	1800	0.8
FYH-150/8	LGJ -150/8			3.6	13.3	1500	0.6
FYH-150/20	LGJ -150/20	150	150	3.6	14.7	1500	0.7
FYH-150/25	LGJ -150/25			3.6	14.2	1500	0.7
FYH-150/35	LGJ -150/35			4.6	14.5	1500	0.7
FYH-185/10	LGJ -185/10			4.6	14.9	1800	1.2
FYH-185/25	LGJ -185/25	185		4.6	15.7	1800	1.3
FYH-185/30	LGJ -185/30		185	4.6	15.7	1800	1.3
FYH-185/45	LGJ -185/45			4.6	16.3	1800	1.3
FYH-210/10	LGJ -210/10			4.6	15.9	1800	1.3
FYH-210/25	LGJ -210/25			4.6	16.6	1800	1.3
FYH-210/35	LGJ -210/35		210	4.6	16.9	1800	1.3
FYH-210/50	LGJ -210/50			4.6	17.3	1800	1.3
FYH-240/30	LGJ -240/30	240		4.6	17.9	1900	1.4
FYH-240/40	LGJ -240/40			4.6	17.9	1900	1.4
FYH-240/55	LGJ -240/55			4.6	18.6	1900	1.4
FYH-300/15	LGJ -300/15		240	6.3	19.1	2000	2.3
FYH-300/20	LGJ -300/20	300		6.3	19.4	2000	2.3
FYH-300/25	LGJ -300/25		300	6.3	19.8	2000	2.3
FYH-300/40	LGJ -300/40			6.3	19.9	2000	2.3
FYH-300/50	LGJ -300/50			6.3	20.1	2000	2.3
FYH-300/70	LGJ -300/70			6.3	20.9	2000	2.3
FYH-400/20	LGJ -400/20			6.3	22.3	2200	2.8
FYH-400/25	LGJ -400/25			6.3	22.1	2200	2.8
FYH-400/35	LGJ -400/35			6.3	22.3	2200	2.8
FYH-400/50	LGJ -400/50		400	6.3	23.0	2200	2.8
FYH-400/65	LGJ -400/65			6.3	23.2	2200	2.8
FYH-400/95	LGJ -400/95	400		6.3	23.0	2500	2.8
FYH-500/35	LGJ -500/35			7.8	24.8	2500	3.5
FYH-500/45	LGJ -500/45			7.8	24.9	2500	3.5
FYH-500/65	LGJ -500/65			7.8	25.7	2500	3.5
FYH-630/45	LGJ -630/45			7.8	27.9	2500	5.3
FYH-630/55	LGJ -630/55		500	7.8	28.5	2500	5.3
FYH-630/80	LGJ -630/80			7.8	28.9	2500	5.3
FYH-800/55	LGJ -800/55			7.8	31.8	2500	6.0
FYH-800/70	LGJ -800/70			7.8	32.1	2500	6.0
FYH-800/100	LGJ -800/100			7.8	32.3	2500	6.0

Heliformed armor rod
Repaired armor rods

The repaired armor rod was use for Repair of damaged distribution line phasa and neutral conductors
Damage distribution line phasa and neutral conductor can occur in service for a number of reasons, including:
Aeolian vibration and galloping
Loose hand ties
Lightning strikes
Contact from trees or other objects
Firearms
The re-conductoring is not required. In most cases the repair solution will depend on the extent of the damage.
Therefore, the first step in any repair is an accurate assessment of the level of damage. Generally an accurate assessment of the number of damaged or broken strands can be made by a close visual inspection, with the tension relieved in the damaged area. Since damage can be hidden under ties or support hardware it is usually necessary to carefully remove to completely assess the amount of damage.

The application steps for electrical repair:
Step 1: Thoroughly wire-brush damaged conductor for the full length of the Aromor Rods to be applied.
Step 2: Apply a gritted inhibitor to the full length of this area before applying the repaired Armor Rods.

Before repaired conductor



Finish repaired conductor

catalogue number	conductor	Dimensions (mm)			Groups for each	Weight (kg)
		D	d	L		
FYB-95/15	LGJ-95/15	3.6	11.4	420	13	0.14
FYB-95/20	LGJ-95/20	3.6	11.4	420	13	0.16
FYB-95/55	LGJ-95/55	3.6	13.3	420	16	0.17
FYB-120/7	LGJ-120/7	3.6	12.3	450	14	1.18
FYB-120/20	LGJ-120/20	3.6	12.5	450	14	0.18
FYB-120/25	LGJ-120/25	3.6	13.0	450	14	0.18
FYB-150/8	LGJ-150/8	3.6	13.3	480	16	0.20
FYB-150/20	LGJ-150/20	3.6	14.8	480	16	0.21
FYB-150/25	LGJ-150/25	3.6	14.2	480	16	0.21
FYB-150/35	LGJ-150/35	3.6	14.5	480	16	0.21
FYB-35	LGJ-35	3.6	7.1	270	9	0.08
FYB-50	LGJ-50	3.6	8.2	300	10	0.09
FYB-70	LGJ-70	3.6	9.7	340	11	0.12
FYB-95	LGJ-95	4.6	11.6	420	11	0.23
FYB-120	LGJ-120	4.6	12.9	450	12	0.27
FYB-150	LGJ-150	4.6	14.4	480	13	0.30
FYB-185	LGJ-185	4.6	16.2	580	14	0.39
FYB-240	LGJ-240	6.3	18.4	640	12	0.66
FYB-300	LGJ-300	6.3	20.5	700	13	0.80
FYB-400	LGJ-400	6.3	23.8	820	14	1.05

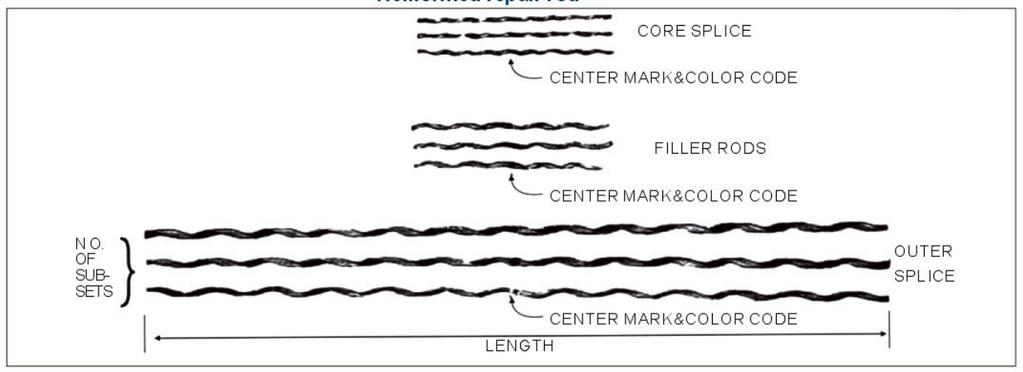
Full Tension Splice

When centered over the point of damage, the ends of the Conductor Splice should not be positioned closer than 152mm to existing Armor Rods or Line Guards.
The Restorative-Repair function of this splice should be limited to damage located within the idspan Area or the Point of Support . (see figure 1)

Application
It was use for jointing and restorative repair on conductors of aluminum ,Aluminum Coated Steel and galvanized steel.
Conductivity
In all cases-aluminum alloy, Aluminum Coated Steel and galvanized steel-Line Splices will provide conductivity equal to, or better than, an equivalent length of unspliced conductor.
To ensure a good long term joint ,the conductor must be scratch brushed and greased prior to the application of the splice.
Hold Strength
On all aluminum, Aluminum Coated Steel and galvanized steel conductors of homogeneous stranding.
Compatibility
As Line Splices relate to their conductor materials-aluminum, Aluminum Coated Steel and galvanized steel-problems due to incompatibility do not arise.
Installation Pointers
Line Splices should not be reused after original installation.
Restorative repair should be limited to damage in the span and should not be use at the point of support.

This splice will hold the full rated breaking strength of, and provode better conductivity than and equal length of unspliced ACSR conductor. ACSR F.T. will restore original conductivity and full rated breaking strength to ACSR conductor.
This splice is recommended when damage to the core itself is suspected. All conductors, new or weathered, must be thoroughly scratch-brushed until bright and clean.
ACSR Full Tension Splices is designed as a three component assembly. The Core Splice is applies after removal of the aluminum strands down to the steel core. Filler rods, when required, are applied over the Core Splice to re-establish the original outside diameter of the conductor. The Outer splice is identical in design to the Conductor Splice except for the overall lenth.

Heliformed repair rod



Sub-Sets: Individual rods assembled into groups of two , three,or four.
And the products surface was Sand Blasting Surface Treatment. Core Splice: Galvanized steel, sub-setted and gritted. Need Sand Blasting Surface Treatment. Filler Rods: Aluminum alloy, sub-setted or single rods,not gritted.
Filler Rods are not required for selected sizes corresponding to tabular information on catalog pages.
Outer Splice: Aluminum alloy, sub-setted and gritted. Need Sand Blasting Surface Treatment.
Center Mark and Color Code: Establishes recommended alignment of rods during application and Assist in identification of conductor size
Length: corresponding to tabular information appearing on catalog pages.
Identification Tape: Shows catalog number, nominal sizes.

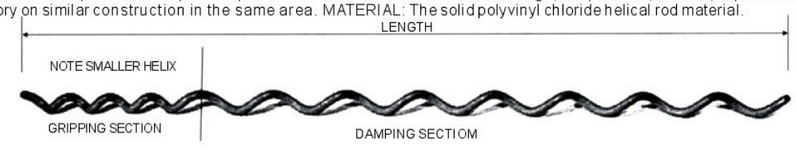
Heliformed repair rod

For ACSR

Catalogue number	Conductor ACSR/LGJ	Standards	Length of splice mm		
			Core splice	filler rods	outer splice
JL-50/8	LGJ-50/8	GB1179-74LGJ	508		1372
JL-70/10	LGJ-70/10	GB1179-83	406	406	1499
JL-95/15	LGJ-95/15	GB1179-83	508	508	1905
JL-95/20	LGJ-95/20	GB1179-83	510	510	1727
JL-95/55	LGJ-95/55	GB1179-74LGJ	790		2500
JL-120/20	LGJ-120/20	GB1179-83	508	508	2057
JL-120/0	LGJ-120/0	GB1179-74LGJ	610	610	2210
JL-150/8	LGJ-150/8	GB1179-74LGJ	635	635	2387
JL-150/20	LGJ-150/20	GB1179-83	508	508	2261
JL-150/25	LGJ-150/25	GB1179-83	635	635	2413
JL-185/25	LGJ-185/25	GB1179-83	635	635	2642
JL-185/30	LGJ-185/30	GB1179-74LGJ	660	660	2667
JL-185/0	LGJ-185	GB1179-83	686	686	2692
JL-210/25	LGJ-210/25	GB1179-74LGJ	630	630	2743
JL-240/0	LGJ-240/0	GB1179-83	787	787	3226
JL-240/30	LGJ-240/30	GB1179-83	686	686	3073
JL-240/40	LGJ-240/40	GB1179-74	737	737	3073
JL-240/0	LGJ-240/0	GB1179-74	658	658	3124
JL-300	LGJ-300/15	GB1179-83	711	711	3403
JL-300/25	LGJ-300/25	GB1179-83	635	635	3759
JL-300/40	LGJ-300/40	GB1179-74	737	737	3429
JL-300/0	LGJ-300/0	GB1179-83	1041	104	3657
JL-300/50	LGJ-300/50	GB1179-83	-	-	-
JL-300/70	LGJ-300/70	GB1179-83	-	-	-
JL-400/25	LGJ-400/25	GB1179-83	635	635	4013
JL-400/35	LGJ-400/35	GB1179-83	686	686	4242
JL-400/50	LGJ-400/50		787	787	4343
JL-500/45	LGJ-500/45		-	-	-
JL-500/35	LGJ-500/35		-	-	-
JL-500/65	LGJ-500/65		-	-	-

Heliformed Damper

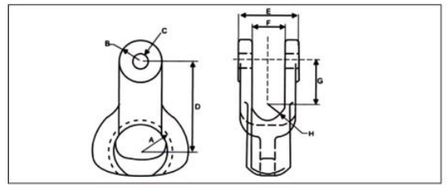
Damping devices are designed for the single purpose of reducing vibration. This single function is entirely different from that of protecting against (1)stress concentration (2) fretting or abrasion, and (3) arc-over burning. Because of this, damping devices should be considered only as supp lemental to Armor Rod or other hardware at tangent supports. Dampers are also used as supplemental protection at dead-ents. The degree of protection needed on a specific line depends upon a number of factors such as line design, temperature, tension, exposure to wind flow, and vibration history on similar construction in the same area. MATERIAL: The solid polyvinyl chloride helical rod material.



Length: Assists in identification of conductor size,Damping Section: Helically scaled for interplay of damper and conductor; to provide the action or reaction motion that opposes the natural vibration wave.
Gripping Section: Has a smaller helix designed to the grip conductor.

Catalogue number	Suitable conductor Diameter Range O.D mm		Suitable conductor		
			ACSR LGJ/LGJF	AAC LJ	AS GJ
VD-1	36.35	8.28	24/4.35/6	25.35	25.35
VD-2	8.29	11.7	50/8 50/30 70/10	50 70	50 70
VD-3	11.72	1 14.3	70/40 95/15 95/20	95 120	95 100 120
			95/55 120/7 150/8		
			120/25 120/70 150/8		
VD-4	14.31	19.3	150/20 150/25 150/35	150 185 210	
			185/10 185/25 185/30		
			210/10		

Fitting for optic lines



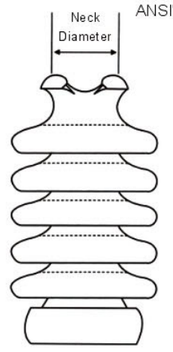
NOTE: Fitting other than those shown may be used provided they have dimensions shown on Table 1.

Illustration 1. Applicable Pin, Line post and spool Insulators
CATALOG NUMBERS:SSDE-9122 through 9134 pin Post&Spool Insulators

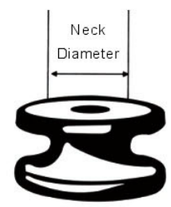
Thimble Clevis for Conductor Dead-ends
Thimble Clevises are used in conjunction with PREFORMED Dead-ends on suspension-type or Dead-end insulators. The thimble is intended to provide a smooth internal contour to prevent stress concentration within the loop of a PERFORMED Dead-end. The Clevis includes a steel pin which links it through the eye of an insulator and secures it with a humpbacked cotter key. If removal or replacement of an insulator, or similar maintenance, is required, only the cotter key and steel pin need to be removed to release the clevis.

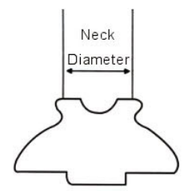
CATALOG NUMBERS:
SSDE-6142 through 9153 Pin insulators
ANSI"J" -Neck: Nominal neck diameter 3-1/2".

ANSI"C"-Neck:Nominal neck diameter 2-1/4"
ANSI"F"-Neck:Nominal neck diameter 2-7/8"



ANSI Class 53-1 to 53-5 spool Nominal neck Diameter 1-3/4 " to 2-7/8".

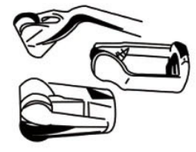




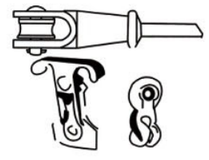
Acceptable Fittings

Anchor rods

Thimble eye-bolts, -Eyenuts&Eyes



Pole Fittings



Guy- Straom insulators

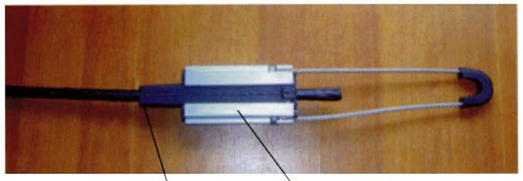
Heavy-Duty-Type Cable Thimbles, if used, can collapse when guy tensions are high. If thimbles are used in the loop of the GUY-GRIP dead-end, a large pin is recom-mended to fill the loop of the thimble to preventdistortion. The collapsing strength of the thimble and the proper pin size should be obtained from the thimble manufacturer.

Preformed Line Products for Helical Fittings of ADSS

Ⅰ Wedge Tension Set for Short Span ADSS

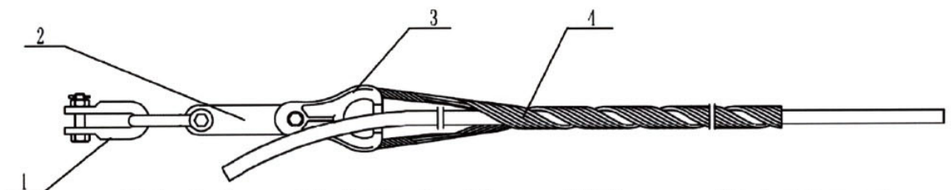
Explanation
1.Materials:Wedge Shell__Aluminum alloy Nip Block__Nylon
2.Available Span 75m

Type of product	Available Dia. Of Cable (mm)	Available Span (m)	Weight (kg)
AND_14500	12.0-14.5	≤75	0.45



Nip Block Wedge Shell

II Tension Set for Short Span ADSS

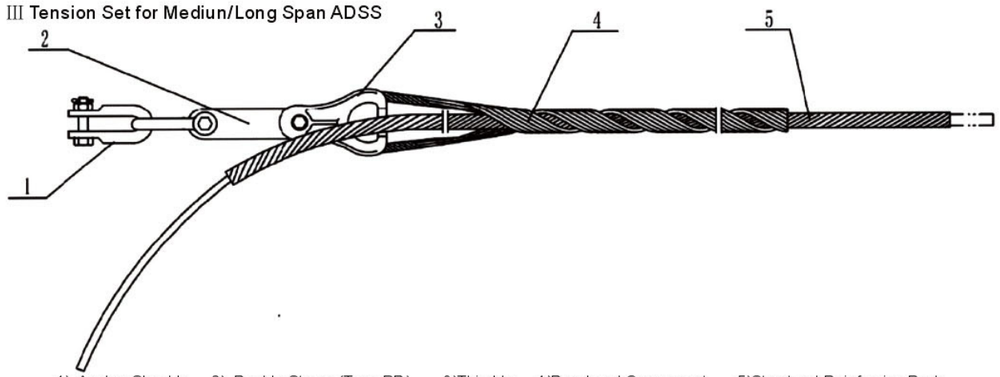


1)Anchor Shackle 2)Double Straps (Type PD) 3)Thimble 4)Dead-end Component

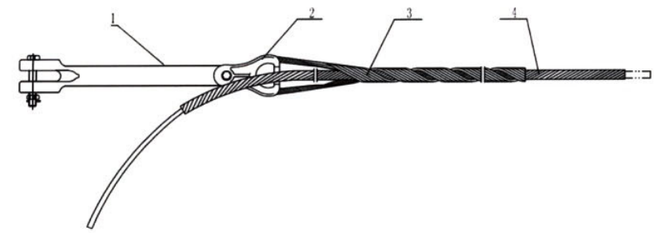
Explanation:
1.Materials: Dead-end Component-Alumium-clad steel wire or of galvanized stee
2.Available Span 100m

Type of product	Available Dia. Of cable (mm)	Length of Dead-end Component (mm)	Holding Strength (KN)	Weight (kg)
ANZ-010 0940	9.0-9.4	780	10	0.32
ANZ-010 1040	9.5-10.4	830	10	0.34
ANZ-010 1150	10.5-11.5	880	10	0.52
ANZ-010 1240	11.6-12.4	910	10	0.54
ANZ-010 1340	12.5-13.4	980	10	0.69
ANZ-010 1490	13.5-14.9	1020	10	0.79

Ⅲ Tension Set for Mediun/Long Span ADSS



1) Anchor Shackle 2) Double Straps (Type PD) 3)Thimble 4)Dead-end Component 5)Structural Reinforcing Rods

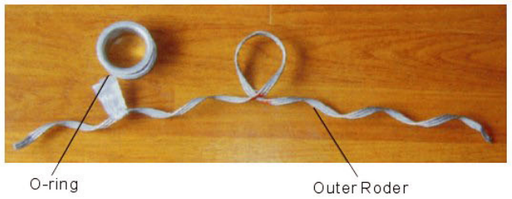


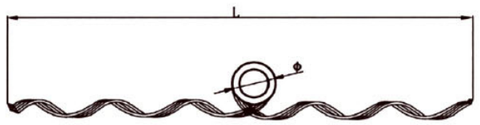
1）Connecting rod
2）Thimble
3）Dead-end Component
4）Structural Reinforcing Rods

Explanation
1.Materials: Dead-end Component-Aluminum-clad steel wire

Type of product	Available Dia. Of Cable (mm)	Available Span (m)	Holding Strength (KN)	Length of Dead-end Component (mm)	Length of Structural Reinforcing Rods (mm)	Weight (kg)
ANZ-020 0940	9.0-9.4	200	20	800	1200	0.90
ANZ-020 1040	9.0-10.4	200	20	800	1200	0.90
ANZ-020 1150	10.5-11.5	200	20	800	1200	1.00
ANZ-020 1240	11.6-12.4	200	20	850	1200	1.10
ANZ-020 1340	12.5-13.4	200	20	850	1200	1.12
ANZ-020 1490	13.5-14.9	200	20	900	1200	1.20
ANZ-020 1590	15.0-15.9	200	20	900	1200	1.20
ANZ-030 0940	9.0-9.4	300	30	1100	1400	1.20
ANZ-030 1040	9.0-10.4	300	30	1100	1400	1.20
ANZ-030 1150	10.5-11.5	300	30	1100	1400	1.30
ANZ-030 1240	11.6-12.4	300	30	1100	1400	1.32
ANZ-030 1340	12.5-13.4	300	30	1100	1400	1.35
ANZ-030 1490	13.5-14.9	300	30	1100	1400	1.50
ANZ-030 1590	15.0-15.9	300	30	1100	1400	1.50
ANZ-040 0940	9.0-9.4	400	40	1260	1700	1.40
ANZ-040 1040	9.0-10.4	400	40	1260	1700	1.40
ANZ-040 1150	10.5-11.5	400	40	1260	1700	1.50
ANZ-040 1240	11.6-12.4	400	40	1260	1700	1.70
ANZ-040 1340	12.5-13.4	400	40	1260	1700	1.75
ANZ-040 1420	13.5-14.2	400	40	1260	1700	1.82
ANZ-040 1490	13.5-14.9	400	40	1260	1700	1.86
ANZ-040 1590	15.0-15.9	400	40	1260	1700	1.86
ANZ-040 1690	16.0-16.9	400	40	1260	1700	2.20
ANZ-050 1150	10.5-11.5	500	50	1400	2000	1.90
ANZ-050 1240	11.6-12.4	500	50	1400	2000	2.00
ANZ-050 1340	12.5-13.4	500	50	1400	2000	2.23
ANZ-050 1420	13.5-14.2	500	50	1400	2000	2.30
ANZ-050 1490	14.3-14.9	500	50	1400	2000	2.30
ANZ-050 1590	15.0-15.9	500	50	1400	2000	2.80
ANZ-050 1690	16.0-16.9	500	50	1400	2000	2.80
ANZ-060 1150	10.5-11.5	600	60	1560	2200	2.10
ANZ-060 1240	11.6-12.4	600	60	1560	2200	2.10
ANZ-060 1340	12.5-13.4	600	60	1560	2200	1.53
ANZ-060 1420	13.5-14.2	600	60	1560	2200	1.53
ANZ-060 1490	14.3-14.9	600	60	1560	2200	2.62
ANZ-060 1590	15.0-15.9	600	60	1560	2200	3.01
ANZ-060 1690	16.0-16.9	600	60	1560	2200	3.20
ANZ-070 1420	13.5-14.2	700	70	1600	2400	3.20
ANZ-070 1490	14.3-14.9	700	70	1600	2400	3.30
ANZ-070 1590	15.0-15.9	700	70	1600	2400	3.80
ANZ-070 1690	16.0-16.9	700	70	1600	2400	4.20
ANZ-070 1790	17.0-17.9	700	70	1600	2400	4.70

Ⅳ Suspension set for ADSS (50m span)



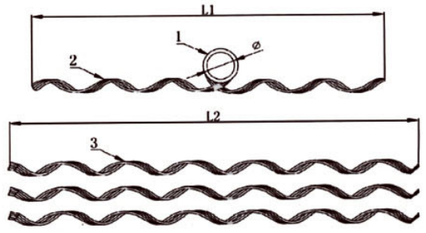


Explanation:
1.Materials: Dead-end Component-of galvanized stee
2.Available Span ≤50m

Type of product	Available Dia. Of Cable (mm)	φ (mm)	L (mm)	Available Span (m)	Preformed Rods Weight (kg)
AX-50-XXXX	9.0-16.0	48	500	50	0.10
AX-50-XXXX	16.1-20.0	48	600	50	0.11

XXXX-Optic cable diameter

Ⅴ Suspension set for ADSS (100m span)

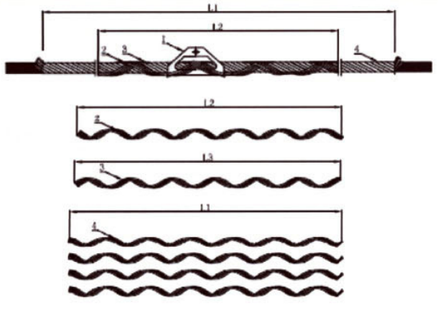


1)O-ring 2)Outer Rods (right-hand lay)
3)Structural Reinforcing Rods (Left-and lay, Tread the sand does not cover)

Explanation:
1.Materials: Dead-end Component-of galvanized stee
2.Available Span 100m

Type of product	Available Dia. Of Cable (mm)	φ (mm)	L1 (mm)	L2 (mm)	Available Span (m)	Preformed Rods Weight (kg)
AXR-100-10.3	10.3-10.7	48	800	1200	100	0.80
AXR-100-10.8	10.8-11.2	48	800	1200	100	0.80
AXR-100-11.3	11.3-11.7	48	800	1200	100	0.80
AXR-100-11.8	11.8-12.2	48	800	1200	100	0.80
AXR-100-12.3	12.3-12.7	48	800	1200	100	0.80
AXR-100-12.8	12.8-13.2	48	800	1200	100	0.82
AXR-100-13.3	13.3-13.7	48	800	1200	100	0.82
AXR-100-13.8	13.8-14.1	48	800	1200	100	0.82
AXR-100-14.2	14.2-14.5	48	800	1200	100	0.82
AXR-100-14.6	14.6-15.0	48	800	1200	100	0.82
AXR-100-15.1	15.1-15.5	48	800	1200	100	0.82
AXR-100-15.6	15.6-16.0	48	800	1200	100	0.82
AXR-100-16.1	16.1-16.5	48	800	1200	100	0.82
AXR-100-16.6	16.6-17.0	48	850	1300	100	1.04
AXR-100-17.1	17.1-17.5	48	850	1300	100	1.04
AXR-100-17.6	17.6-18.0	48	850	1300	100	1.04
AXR-100-18.1	18.1-18.5	48	850	1300	100	1.04
AXR-100-18.6	18.6-19.0	48	850	1300	100	1.04
AXR-100-19.1	19.1-19.5	48	850	1300	100	1.04
AXR-100-19.6	19.6-20.0	48	850	1300	100	1.04

Ⅵ Suspension set for ADSS (100m span)

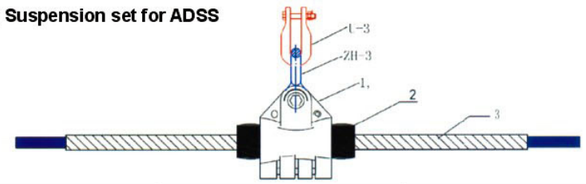


1)Clamp (LT-23-1orLT-23-2)
2)Outer Rods (right-hand lay)
3)Outer Rods (right-hand lay)
4)Structural Reinforcing Rids (Left-hand lay, Tread the sand does not nover)

Explanation:
1.Materials: Dead-end Component-of galvanized stee
2.Available Span 200-400 m

Type of product	Available Dia. Of Cable (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Available Span (m)	Preformed Rods Weight (kg)
SL-450-10.3	10.3-10.7	1800	1300	1300	200-400	1.60
SL-450-10.8	10.8-11.2	1800	1300	1300	200-400	1.60
SL-450-11.3	11.3-11.7	1800	1300	1300	200-400	1.70
SL-450-11.8	11.8-12.2	1800	1300	1300	200-400	1.70
SL-450-12.3	12.3-12.7	1800	1300	1300	200-400	1.70
SL-450-12.8	12.8-13.2	1800	1300	1300	200-400	1.80
SL-450-13.3	13.3-13.7	1800	1300	1300	200-400	1.80
SL-450-13.8	13.8-14.1	1800	1300	1300	200-400	1.90
SL-450-14.2	14.2-14.5	1800	1300	1300	200-400	1.90
SL-450-14.6	14.6-15.0	1800	1300	1300	200-400	1.99
SL-450-15.1	15.1-15.5	1800	1300	1300	200-400	1.99
SL-450-15.6	15.6-16.0	1800	1300	1300	200-400	1.99
SL-450-16.1	16.1-16.5	1800	1300	1300	200-400	2.10
SL-450-16.6	16.6-17.0	1800	1300	1300	200-400	2.10
SL-450-17.1	17.1-17.5	1800	1300	1300	200-400	2.10
SL-450-17.6	17.6-18.0	1800	1300	1300	200-400	2.19
SL-450-18.1	18.1-18.5	1800	1300	1300	200-400	2.19
SL-450-18.6	18.6-19.0	1800	1300	1300	200-400	2.30
SL-450-19.1	19.1-19.5	1800	1300	1300	200-400	2.30
SL-450-19.6	19.6-20.0	1800	1300	1300	200-400	2.30

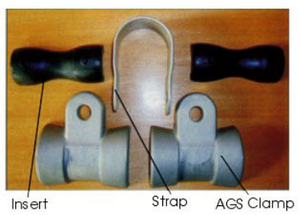
Ⅶ Suspension set for ADSS

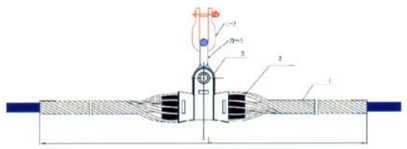


1)Preformed Rods
2)Inert
3)AGS Clamp

Explanation:
1.Materials:
Preformed Rod-Aluminum alloy wire
AGS Clamp-Aluminum alloy

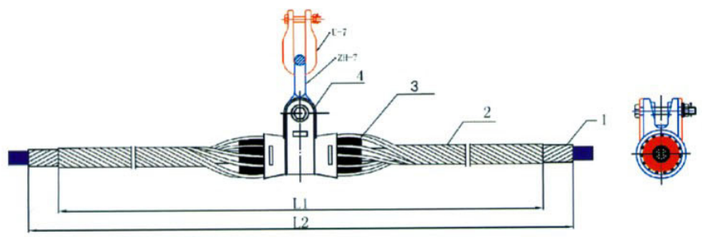
Model	Available Dia. Of cable (mm)	Length of Rods (mm)	Preformed Rods Weight (kg)	Available Span (m)
AXC-010 0940	9.0-9.4	1060	0.17	100
AXC-010 1040	9.5-10.4	1060	0.19	100
AXC-010 1150	10.5-11.5	1060	0.21	100
AXC-010 1240	11.6-12.4	1060	0.22	100
AXC-010 1340	12.5-13.4	1080	0.24	100
AXC-010 1420	13.5-14.2	1080	0.28	100
AXC-010 1490	14.3-14.9	1060	0.29	100
AXC-010 1590	15.0-15.9	1060	0.29	100





1）Preformed Rods 2）Inert 3）AGS Clamp
Explanation:
1.Materials:Preformed Rod-Aluminum alloy wire AGS Clamp–Aluminum alloy Inert-PDM

Model	Available Dia. Of cable (mm)	Length of Rods (mm)	Preformed Rods Weight (kg)	Available Span (m)
AXC-020 0960	9.0-9.6	900	0.30	200
AXC-020 1010	9.7-10.1	1000	0.34	200
AXC-020 1080	10.2-10.8	1000	0.38	200
AXC-020 1150	10.9-11.5	1040	0.39	200
AXC-020 1220	11.6-12.2	1040	0.44	200
AXC-020 1290	12.3-12.9	1060	0.44	200
AXC-020 1360	13.0-13.6	1060	0.44	200
AXC-020 1430	13.7-14.3	1200	0.55	200
AXC-020 1500	14.4-15.0	1200	0.60	200
AXC-020 1570	15.1-15.7	1200	0.60	200
AXC-020 1640	15.8-16.4	1200	0.60	200
AXC-020 1710	16.5-17.1	1260	0.68	200
AXC-020 1780	17.2-17.8	1260	0.68	200
AXC-030 0960	9.0-9.6	1020	0.31	300
AXC-030 1010	9.7-10.1	1100	0.38	300
AXC-030 1080	10.2-10.8	1100	0.42	300
AXC-030 1150	10.9-11.5	1200	0.45	300
AXC-030 1220	11.6-12.2	1200	0.50	300
AXC-030 1290	12.3-12.9	1200	0.50	300
AXC-030 1360	13.0-13.6	1200	0.50	300
AXC-030 1430	13.7-14.3	1320	0.75	300
AXC-030 1500	14.4-15.0	1320	0.81	300
AXC-030 1570	15.1-15.7	1320	0.81	300
AXC-030 1640	15.8-16.4	1320	0.81	300
AXC-030 1710	16.5-17.1	1320	0.92	300
AXC-030 1780	17.2-17.8	1320	0.92	300



1)Length of Outer Rods
2)Length of Structural Reinforcing Rods
3)Inert
4)AGS Clamp

Explanation:
1.Materials
Length of Outer Rods or Length of Structural Reinforcing Rods-Aluminum alloy wire
AGS Clamp-Aluminum alloy
Inert-PDM

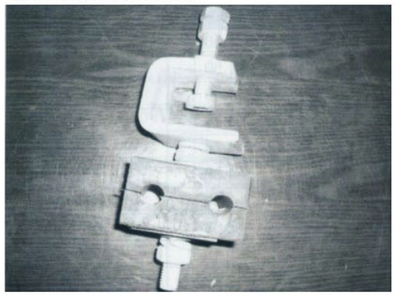
Model	Available Dia. Of Cable (mm)	Length of Rods (mm)	Length of Structural Reinforcing Rods (mm)	Weight (kg)	Available Span (m)
AXC-040 0960	1000	1000	1400	1.50	400
AXC-040 1010	1000	1000	1400	1.50	400
AXC-040 1080	1000	1000	1400	1.69	400
AXC-040 1150	1100	1100	1550	1.74	400
AXC-040 1220	1100	1100	1550	1.74	400
AXC-040 1290	1200	1200	1700	1.88	400
AXC-040 1360	1200	1200	1700	1.88	400
AXC-040 1430	1300	1300	1800	2.06	400
AXC-040 1500	1300	1300	1800	2.19	400
AXC-040 1570	1300	1300	1800	2.19	400
AXC-050 1220	1240	1240	1740	1.96	500
AXC-050 1290	1240	1240	1740	2.18	500
AXC-050 1360	1280	1280	1840	2.30	500
AXC-050 1430	1280	1280	1840	2.30	500
AXC-050 1500	1340	1340	1920	2.51	500
AXC-050 1570	1340	1340	1920	2.60	500
AXC-050 1640	1400	1400	2020	2.82	500
AXC-050 1710	1400	1400	2020	2.82	500
AXC-060 1220	1280	1280	1680	2.00	600
AXC-060 1290	1280	1280	1680	2.20	600
AXC-060 1360	1340	1340	1900	2.30	600
AXC-060 1430	1340	1340	1900	2.30	600
AXC-060 1500	1380	1380	1980	2.60	600
AXC-060 1570	1380	1380	1980	2.60	600
AXC-060 1640	1500	1500	2100	2.90	600
AXC-060 1710	1500	1500	2100	2.90	600
AXC-070 1430	1440	1440	2100	2.71	700
AXC-070 1500	1440	1440	2100	2.75	700
AXC-070 1570	1460	1460	2100	2.77	700
AXC-070 1640	1560	1560	2180	3.01	700
AXC-070 1710	1560	1560	2180	3.25	700
AXC-070 1780	1560	1560	2180	3.26	700

Ⅷ Joint Box

Cap-type plastic Joint Box

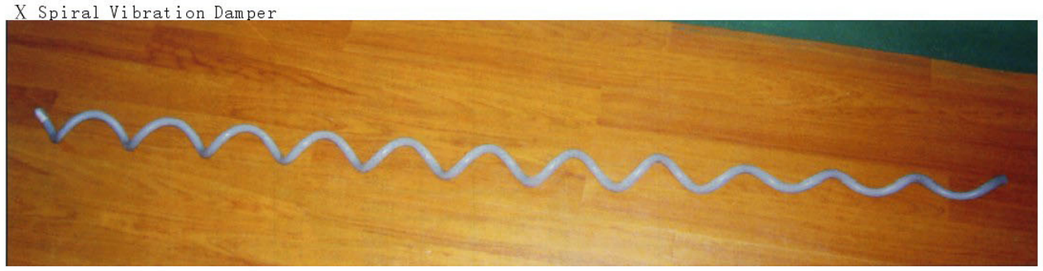
Name	Core Number	Weight (kg)	Remark
Input-1, Output-1 for ADSS Plastic Joint Box for Pole	12	18	2180
	24	18	
	36	18	
	48	18	
	60	18	
	72	18	
Input-2, Output-2 for ADSS Plastic Joint Box for Pole	12	18	Also Suitable for Input-2, Output-1
	24	18	
	36	18	
	48	18	
	60	18	
	72	18	

Ⅸ Down Lead Clamp



Name	Cable Dia. Range (mm)	Weight (kg)
Rubber Down Lead Clamp for Pole	9.0-11.6	0.75
	11.7-14.3	0.75
	14.4-17.0	0.75
	17.2-19.7	0.75
Rubber Down Lead Clamp for Tower	9.0-11.6	0.55
	11.7-14.3	0.55
	14.4-17.0	0.55
	17.2-19.7	0.55

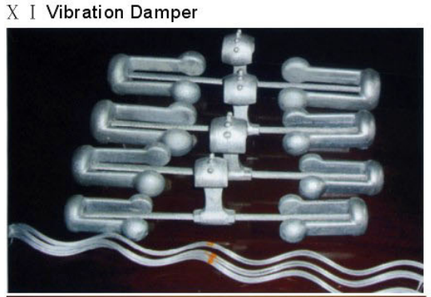
Ⅹ Spiral Vibration Damper

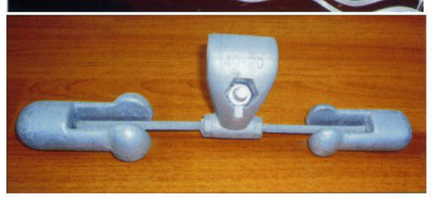


Model	Cable Dia. Range (mm)	Weight (kg)
FL-10	9.10-13.00	0.22
FL-12	11.10-13.00	0.34
FL-14	13.10-15.00	0.41

Model	Cable Dia. Range (mm)	Weight (kg)
FL-16	15.10-17.00	0.49
FL-18	17.10-19.00	0.56
FL-20	19.10-21.00	0.58

Ⅹ Ⅰ Vibration Damper





Model	Cable Dia. Range (mm)	Total L (mm)	Weight (kg)
4D-20-14.0	12.2-14.0	330	1.4
4D-20-16.0	14.0-16.0	330	1.4
4D-20-18.0	15.5-18.0	330	1.4
4D-20-20.3	16.5-20.3	330	1.4
4D-20-23.4	19.5-23.4	330	1.4
4D-20-27.0	22.5-27.0	330	1.4
4D-20-20.3	16.5-20.3	383	2.5
4D-20-23.4	19.5-23.4	383	2.5
4D-20-27.0	22.5-27.0	383	2.5
SYFD-1	7.8-13.0	366	1.6
SYFD-2	13.0-18.0	425	2.2
SYFD-3	18.0-25.0	435	3.1
SYFD-4	25.3-29.2	450	4.0

ANSI Pin type insulators for high voltage

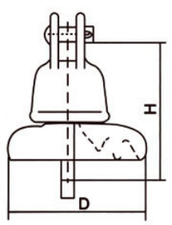


Fig1

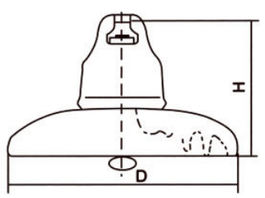


Fig2

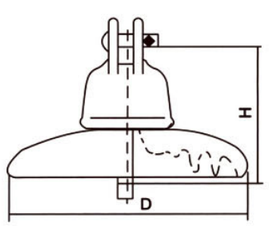


Fig3

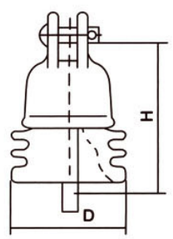
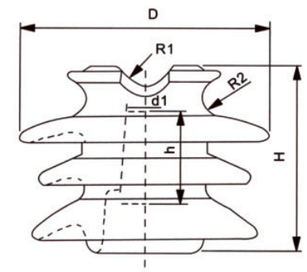


Fig4

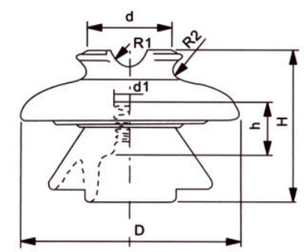
MAIN DIMENSIONS AND STANDARD PARTICULARS

Class ANSI	Fig	Main Demension in (mm)		Leakage Distance in (mm)	Combined M&E Strength b (KN)	Mcebanical Impact Strenth in-1b (N-m)	Time Load Test Value 1b (KN)	Average Flashover Voltage				Power Frequaency Puncture Voltage kV	Radio Influence Voltage	
								Power Frequency		Critical Impulse				
		D (max)	F					Dry kV	Wet kV	Positive kV	Nagative kV		Test Voltage To Ground kV	Max Riv At 1 MHz V
52-1	1	6 1/2 (165)	5 1/2 (165)	7 (178)	10000 (44)	45 (5.0)	6000 (27)	60	30	100	100	80	7.5	50
52-2	1	8 (203)	5 3/4 (146)	8 1/4 (210)	15000 (67)	50 (5.5)	10000 (44)	65	35	115	115	90	7.5	50
52-3	2	10 3/4 (273)	5 3/4 (146)	11 1/2 (292)	15000 (67)	55 (6.0)	10000 (44)	80	50	125	130	110	10	50
52-4	3	10 3/4 (273)	5 3/4 (146)	11 1/2 (292)	15000 (67)	55 (6.0)	10000 (44)	80	50	125	130	110	10	50
52-5	2	10 3/4 (273)	5 3/4 (146)	11 (279)	25000 (111)	60 (7.0)	15000 (67)	80	50	125	130	110	10	50
52-6	3	10 3/4 (273)	5 3/4 (146)	11 (279)	25000 (111)	60 (7.0)	15000 (67)	80	50	125	130	110	10	50
52-9	4	4 1/2 (114)	6 1/4 (160)	6 3/4 (171)	10000 (44)	45 (5.0)	6000 (27)	80	30	100	90	80	7.5	50

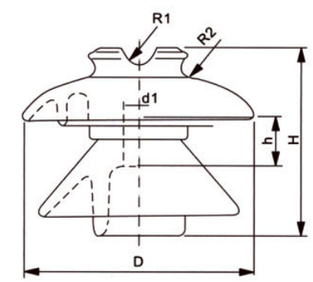
ANSI High voltage pin insulators



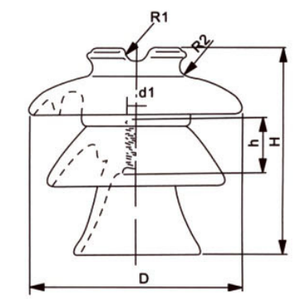
56-1
56-2



56-3



56-4

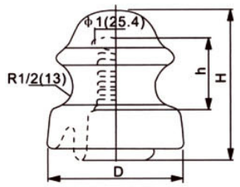


56-5

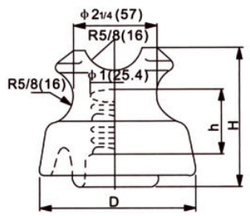
MAIN DIMENSIONS AND STANDARD PARTICULARS

Class ANSI	Main Demension in (mm)							Leakage Distance in (mm)	Min. Pin Length in (mm)	Cantilever Strength 1b (KN)	Flashover Voltage				Power Frequaencay Puncture Voltage kV	Radio Influence Voltage	
											Power Frequency		Critical Impulse			Test Voltage To Ground kV	Max Riv At 1 MHz V
	D	H	d	d1	h	R1	R2				Dry kV	Wet kV	Positive kV	Nagative kV			
56-1	7 1/2 (190)	5 (146)	3 1/2 (89)	1 1/2 (35)	2 (51)	3/4 (19)	9/16 (14)	13 (330)	6 (152)	2500 (11)	95	60	150	190	130	15	100
56-2	9 (229)	6 1/2 (165)	4 (102)	1 3/8 (35)	2 (51)	3/4 (19)	9/16 (14)	17 (432)	7 (178)	3000 (13.2)	110	70	175	225	145	22	100
56-6	10 1/2 (167)	7 1/2 (191)	4 (102)	1 3/8 (35)	2 (51)	3/4 (19)	9/16 (14)	21 (533)	8 (203)	3000 (13.2)	125	80	200	265	165	30	200
56-4	12 (305)	9 1/2 (241)		1 3/8 (35)	2 (51)	3/4 (19)	9/16 (14)	27 (685)	10 (254)	3000 (13.2)	140	95	225	310	185	30	200
56-5	13 1/2 (343)	12 1/2 (318)		1 3/8 (35)	2 (51)	3/4 (19)	9/16 (14)	34 (864)	12 (305)	3000 (13.2)	175	125	270	340	225	44	200

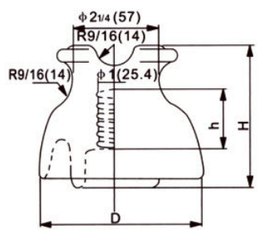
ANSL Low & medium voltage pin type insulators



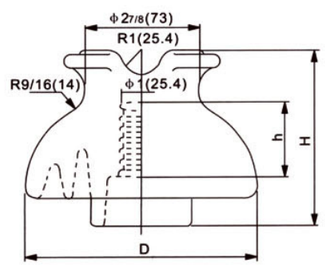
55-1



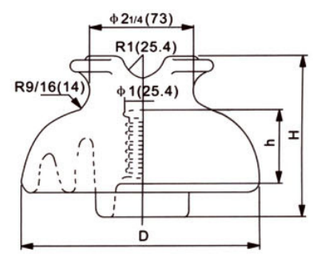
55-2



55-3



55-4



55-5

MAIN DIMENSIONS AND STANDARD PARTICULARS

Class ANSI	Main Demension in (mm)			Leakage Distance in (mm)	Min. Pin Length in (mm)	Cantilever Strength 1b (KN)	Flashover Voltage				Power Frequaencay Puncture Voltage kV	Radio Influence Voltage	
							Power Frequency		Critical Impulse			Test Voltage To Ground kV	Max Riv At 1 MHz V
	D(max)	H	h				Dry kV	Wet kV	Positive kV	Nagative kV			
56-1	3 1/4 (83)	3 1/2 (89)	1 3/4 (44)	4 (102)	4 (102)	3000 (13)	35	20	50	70	50	5	2500/50
56-2	3 3/4 (95)	3 1/4 (83)	1 1/2 (38)	5 (127)	5 (127)	2500 (11)	50/45	25	75/70	95/85	70	5	2500/50
56-3	4 3/4 (121)	3 3/4 (95)	1 1/2 (38)	7 (178)	7 (178)	2500 (11)	65/55	35/30	100/90	130/110	90	10	5500/50
56-4	5 1/2 (140)	4 3/8 (111)	1 3/4 (44)	9 (229)	9 (229)	3000 (13)	70/65	40/35	110/105	140/130	95	10	5500/50
56-5	7 (178)	4 7/8 (234)	2 (51)	12 (305)	12 (305)	3000 (13)	85/80	45	140/130	170/150	115	15	800/100

ANSI Strain insulators for lines

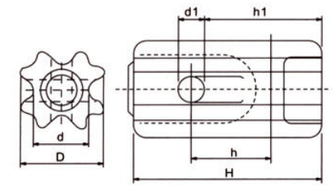


Fig1

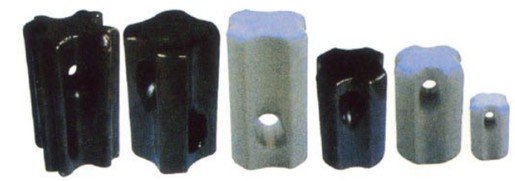
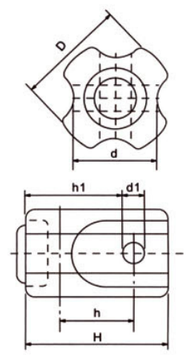


Fig No.			2	2	2	1
CLASS ANSI			54-1	54-2	54-3	54-4
Main Dimansions (mm)	H		89	108	140	171
	h		44	57	67	79
	h1		64	76	103	114
	D		64	73	86	89
	d		44	54	60	60
	d1		16	22	25	25
Mechanical Failing Load (KN)			44	53	89	89
Leakage Distance(mm)			41	47	57	76
Flashover Voltage	Power Frequency	Dry (kv)	25	30	35	40
		Wet (kv)	12	15	18	23
Weight (kg)			0.5	0.65	1.2	2.2



ANSI Spool insulators

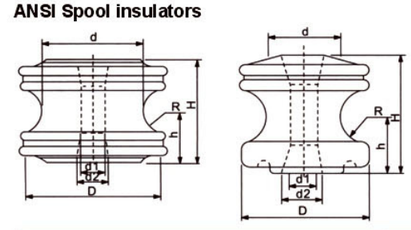
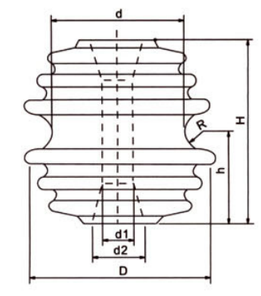


Fig No.				1	2	1	1	3
CLASS ANSI				53-1	53-2	53-3	53-4	53-5
Main Dimansions (mm)	H			54	76	81	76	105
	h			27	38	40.5	38	52.5
	D			57	79	76	105	102
	d			45	45	45	73	73
	d1			18	18	18	18	18
	d2			22	24	24	24	24
	R			11	18	11	16	11
Mechanical Failing Load (KN)				8.9	13.3	17.8	20	26.7
Flashover Voltage	Power Frequency	Dry (kv)		20	25	25	25	35
		Wet (kv)	Upright	8	12	12	12	18
			Level	10	15	15	15	25
Weight (kg)				0.22	0.55	0.60	1.15	1.20



ANSL Low & medium voltage pin type insulators

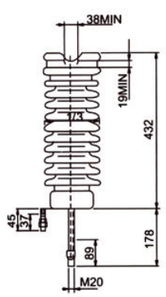


Fig1

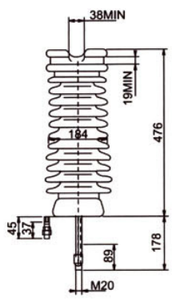


Fig2

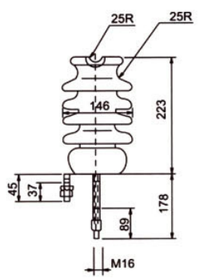


Fig3

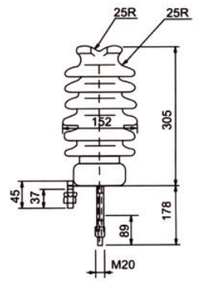


Fig4

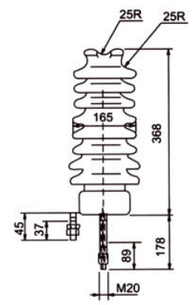


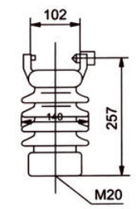
Fig5

MAIN DIMENSIONS AND STANDARD PARTICULARS

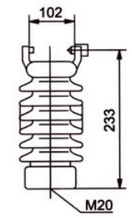
CLASS ANSI		57-1S 57-1L	57-2S 57-2L	57-3S 57-3L	57-4S 57-4L	57-5S 57-5L
Fig NO.		3	4	5	5	2
Main Dimansions of the pin mm		M16	M20 (M16)	M20	M20	M20
Creepage distance mm		356	559	737	1015	1145
Dry arcing distance mm		165	241	311	368	438
Cantilever strength kN		12.5	12.5	12.5	12.5	12.5
Low frequency flashover voltage	Dry flashover kV	80	110	125	150	175
	Wet flashover kV	60	85	100	125	150
Critical impulse flashover voltage	Positive kV	130	180	210	255	290
	Negative kV	155	205	260	340	380
Radio influence voltage data	Test voltage to ground kV	15	22	30	44	44
	At 1000kHz Max. RIV μ V	100	100	300	200	200
Weight (kg)		5	9.8	12	16	18

Glaze: browns or white

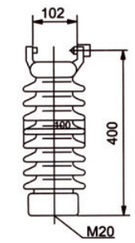
ANSI Line post insulators for high voltage



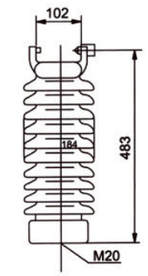
57-11



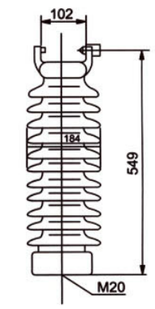
57-12



57-13



57-14



57-15

MAIN DIMENSION AND STANDARD PARTICULARS

ANSI CLASS		57-11	57-12	57-13	57-14	57-15
Creepage distancemm		356	559	737	1015	1145
Dry arcing distance mm		165	241	311	368	438
Cantilever strength kN		12.5	23.5	12.5	12.5	12.5
Low frequency flashover voltage	Dry flashover kV	80	110	125	150	175
	Wet flashover kV	60	85	100	125	150
Critical impulse flashover voltage	Postive kV	130	180	210	255	290
	Negative kV	155	205	260	340	380
Radio influence voltage data	Test voltage to ground kV	15	22	30	44	44
	At 1000kHZ Max. Riv μ V	100	100	200	200	200
Net Weight, Each, Approx., Kg		6.8	10	11.8	15.9	18.6

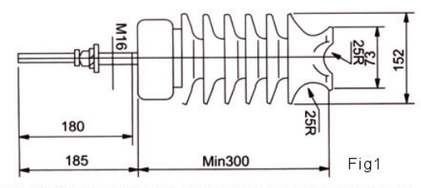


Fig1

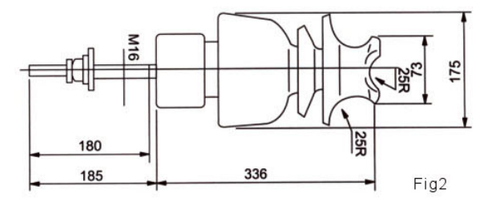


Fig2

MAIN DIMENSIONS AND STANDARD PARTICULARS

ANSI CLASS		ANSI 57-2L-1	PIN POST
Creepage distance mm		559	520
Protected Creepage distance (mm)		200	260
Dry arcing distance mm		240	260
Cantilever strength kN		12.3	12.5
Low frequency flashover voltage	Dry kV	90	90
	Wet kV	65	65
Impulse Withstand Voltage, KV		150	150
Radio influence voltage date	Test voltage to ground kv	22	22
	At 1000kHZ Max. Riv μ V	100	100
Net Weight, Each, Approx., Kg		9.2	10

ANSI Low & medium voltage pin type insulators

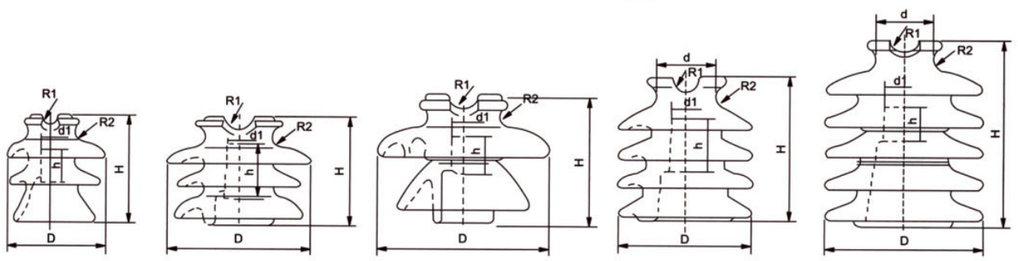


Fig1 Fig2 Fig3 Fig4 Fig5

MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat.No.	Fig. No.	Main Demension in (mm)							Gteepage Distance (mm)	Cantilever Strength 1b (KN)	Withstand Voltage		Power Frequaency Puncture Voltage kV	Radio Influence Voltage		Used Spindles
		D	H	d1	h	R1	R2	d			One minute Wet power Frequency Voltage KV	Dry Impulse Withstand Voltage (peak) KV		Test Voltage To Ground kV	Max Riv At 1 MHz V	
P-11-Y	1	140	133	18.29	48	13	9.5		240	11	45	80	150	15	8000/100	Small steel head
P-15-Y	1	152	137	18.29	48	13	12.7		298	11	50	95	450	15	8000/100	
P-22-Y	2	230	165	27.78	52.63	19	14.3		432	11	70	125	200	22	12000/100	Large steel head
P-33-Y	3	279	244	27.78	52.63	19	13		630	13.8	90	170	210	30	16000/100	
P-15-Y	4	170	182		52.63	16	16	76	432	11	50	95	150	22	12000/100	
P-22-Y	5	205	255		52.63	16	16	76	673	11	70	125	200	30	16000/100	
P-33-Y	5	240	320		52.63	16	16	76	851	11	90	170	210	44	25000/100	

BS Shackle insulators

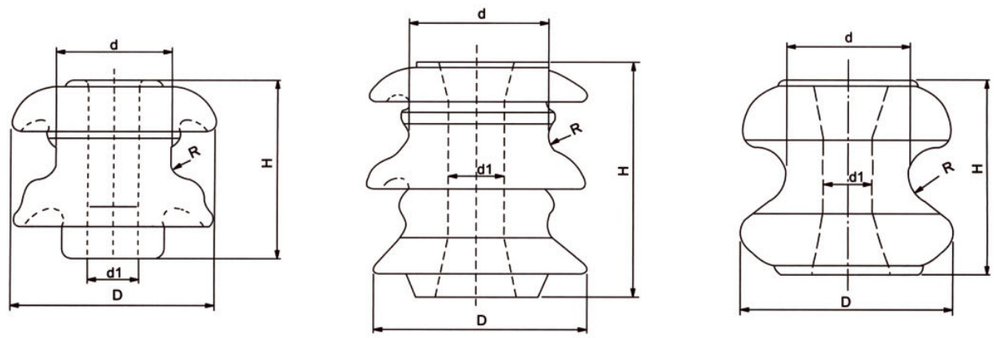


Fig1 Fig2 Fig3

MAIN DIMENSIONS AND STANDARD PARTICULARS

Fig No.			2	1	1	3	3	3
CLASS ANSI			ED-2 (C)	ED-2 (B)	ED-2 (B) 1	1617	1618-1	1618-2
Main Dimansions (mm)		H	80	76	76	65	75	75
		D	80	89	89	76	89	89
		d	50	48	48	46	55	55
		d1	22	21	17.5	17.6	17	17
		R	6	10	10	9	12.5	12.5
Mechanical Failing Load (KN)			13	12	12	9	10	13
Minimum Flashover Voltage	Power Frequency	Dry (kv)	25	25	25	20	20	25
		Wet (kv)	15	12	12	9	9	12
Weight (kg)			0.50	0.50	0.50	0.4	-	-

ANSI & BS Spindle of pin type insulators for high voltage

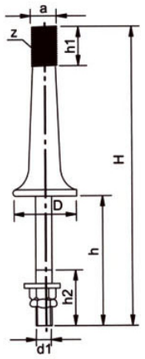
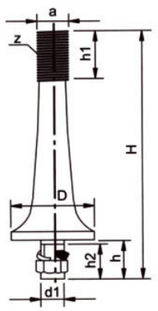


Fig1



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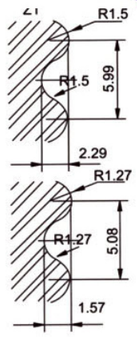


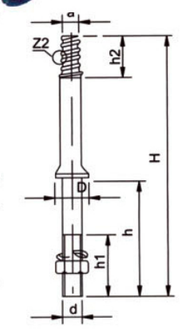


Fig3

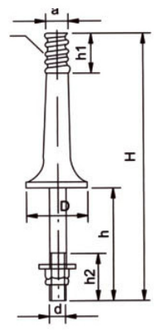


Fig4

MIAN DIMENSIONS AND STANDARD PARTICULARS

Fig No.	Main Dimansions (mm)							Mechianical strength (KN)	Class ANSI	Weight (kg)
	H	D	h	h1	h2	a	d1			
1	330	76	178	51	76		20	11	56-1	1.9
1	356	76	178	51	76	34.9	20	9	56-2	2.2
1	407	89	178	51	76	34.9	20	10	56-3	2.5
1	432	89	178	51	76	34.9	20	9	56-4	3.25
1	343	45	165	51	76	34.9	20	6	56-2	1.6
2	198	76	45	51	40	34.9	20	11	56-1	1.54
2	223	76	45	51	40	34.9	20	9	56-2	1.87
2	274	89	45	51	40	34.9	20	10	56-3	2.17
2	299	89	45	51	40	34.9	20	9	56-4	2.7
2	223	45	45	51	40	34.9	20	6	56-2	1.3
1	356	76	76	51	76	34.9	16	5	56-2	1.9
3	305	38	140	74	44.45		20	5	BS small steel	1
3	352	41	127	80	44.45	18.29	22	5		1.2
3	215	38	50	44	44.45	18.29	20	5		0.75
4	261	60	46	47	41		22	10	BS large steel	1.5
4	369	61	140	47	78	27.78	22	10		2

DIN pin type insulators for high voltage

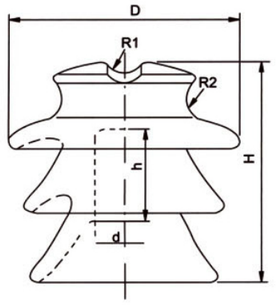


Fig1

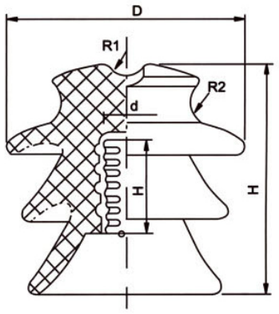


Fig2

MAIN DIMENSIONS AND STANDARD PARTICULARS

Fig No.			1	1	1	2
TYPE			St-10/J	st-15/J	St-20/J	P-20-D
Main Dimansions (mm)	H		130	150	185	185
	h		55	60	65	52.63
	d		135	150	175	175
	d		31	31	35	27.78
	R1		10	10	10	10
	R2		12.5	12.5	12.5	12.5
Normal voltage (kV)			10	15	20	20
Creepage Distance (mm)			240	270	340	340
Power-Frequency puncture voltage (kV)			110	120	140	140
Electronical Faling load (KN)			12	12	14.7	14.7
Flashover (min)	Power Frequency Voltage	Dry (kv)	70	75	90	80
		Wet (kv)	42	53	65	50
	50% Critical Impulse		100	110	130	130
Weight (kg)			1.5	2.7	3.4	3.8

IEC DIN Pin type insulators for high voltage

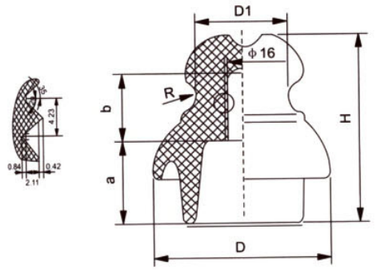
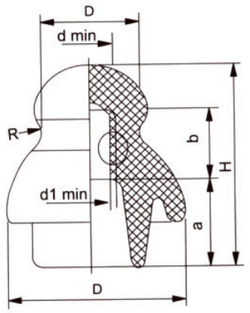


Fig1



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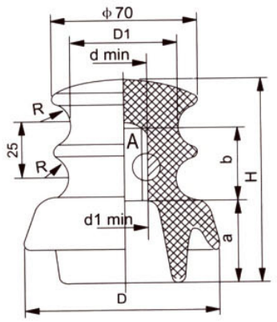

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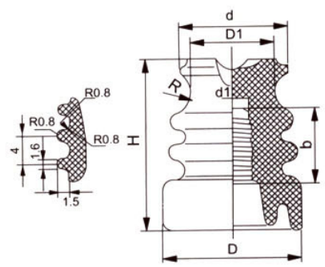


Fig4

MAIN DIMENSIONS AND STANDARD PARTICULARS

Type	Fig No.	Main Dimansions (mm)								Leakage distance (mm)	Minimum breaking load (kN)	One minute with stand voltage wet (kV)	Power Frequaency Voltage		Critical Impulse flashover		Puncture Voltage (kV)
		D (mm)	H (mm)	D1 (mm)	d min (mm)	d1 min (mm)	a (mm)	b (mm)	R (mm)				Dry (kV)	Wet (kV)	Positive (kV)	Negative (kV)	
E-80	1	80	85	42	16	/	38	38	7.5	120	12.5	10	-	-	-	-	-
E-95	1	95	97	50	16	/	43	32	13	140	12.5	10	-	-	-	-	-
N-80	2	80	87	42	19	21	38	30	7.5	120	12.5	10	-	-	-	-	-
N-95	2	95	97	50	22	24	41	35	13	140	12.5	10	-	-	-	-	-
N-95/2	3	95	100	50	22	24	41	35	10	160	12.5	10	-	-	-	-	-
N-95/3	4	102	120	60	80	25.4	/	51	14	230	10	34	70	45	100	120	95
N-95/4	4	130	152	80	100	25.4	/	51	14	318	13.6	50	80	55	130	150	115

IEC Porcelain disc suspension insulators

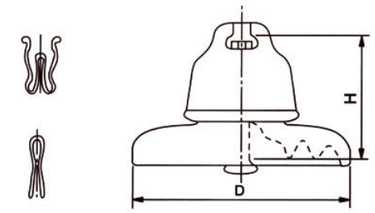
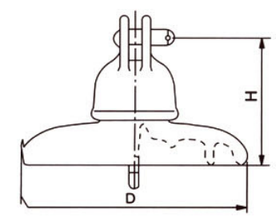


Fig1



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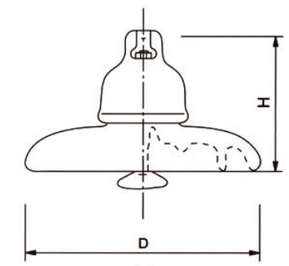

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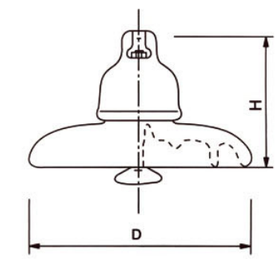


Fig4

MAIN DIMENSIONS AND STANDARD PARTICULARS

Class Type	Fig No.	Unit spacing (mm)	Disc diameter (mm)	Leakge distance (mm)	Rated E&M failing load (kN)	Rountime tension load (KN)	Impact failing load (mm)	Wet Poer Frequaency withstand Voltage kV	Lighting Impulse withstand Voltage KV	Radio Influence Voltage		Power-freq puncture voltage KV
										Test Voltage To Ground kV	Max Riv At 1 Mhz V	
U40B	1	110	170	190	40	20	5	30	75	7.5	50	90
U40BP	1	110	210	295	40	20	5	35	90	10	50	90
U70BS	3	127	255	295	70	35	6	40	100	10	50	110
U70BL	3	146	255	295	70	35	6	40	100	10	50	110
U70C	2	146	255	295	70	35	6	40	100	10	50	110
U70BLP	3	146	280	440	70	35	6	42	110	10	50	120
U70CP	2	146	280	440	70	35	6	42	110	10	50	120
U100BS	3	127	255	295	100	50	7	40	100	10	50	110
U100BL	3	146	255	295	100	50	7	40	100	10	50	110
U100C	2	146	255	295	100	50	7	40	100	10	50	110
U100BLP	3	146	255	440	100	50	7	42	110	10	50	120
U100CP	2	146	255	440	100	50	7	42	110	10	50	120
U120B	3	146	280	295	120	60	7	40	100	10	50	110
U120C	2	146	280	295	120	60	7	40	100	10	50	110
U120BP	3	146	280	440	120	60	7	42	110	10	50	120
U120CP	2	146	280	440	120	60	7	42	110	10	50	120
U160BS	4	146	280	315	160	80	10	40	100	10	50	110
U160BSP	4	146	330	440	160	80	10	45	125	10	50	110
U160BL	4	146	280	340	160	80	10	42	105	10	50	110
U160BLP	4	146	330	525	160	80	10	45	130	10	50	110
U210B	4	170	330	370	210	105	10	42	110	10	50	120
U210BP	4	170	330	525	210	105	10	45	130	10	50	120

IEC ANTI-POLLUTION PORCELAIN DISC SUSPENSION INSULATORS

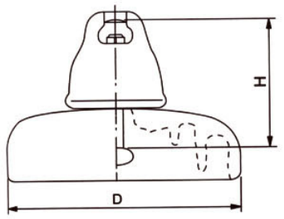


Fig1

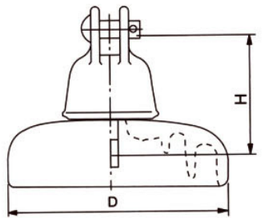


Fig2

MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat. NO.	Fig. No.	Coup-Ling size	Main dimension (mm)		Leakage distance (mm)	Combined M&E strength KN	Radio Influence Voltage		Power-frequency puncture voltage (kV)
			D	H			1 Minute wet o power frequency kV	Lighting impluse kV	
XHP-70	1	6c	255	146	430	70	42	120	120
XHP-70C	2	16c	255	146	430	70	42	120	120
XHP-80	1	16	255	146	430	80	42	120	120
XHP-80C	2	16c	255	146	430	80	42	120	120
XHP-100	1	16	255	146	430	100	45	120	120
XHP-100C	2	16c	255	146	430	100	45	120	120
XHP-120	1	16	255	160	430	120	45	120	120
XHP-120C	2	16c	255	160	430	120	45	120	120
XHP-125	1	20	280	160	430	125	45	120	120
XHP-125C	2	19c	280	160	430	125	45	120	120
XHP-160	1	20	300	160	450	160	45	130	120
XHP-160C	2	19c	300	170	450	160	45	130	120
XHP-210	1	20	300	170	480	210	45	130	120
XHP-210C	2	22c	300	178	480	210	45	130	120
XHP-300	1	24	320	195	480	300	45	130	120
XHP-400	1	28	380	220	550	400	50	140	140

AS HIGH VOLTAGE PIN TYPE INSULATORS

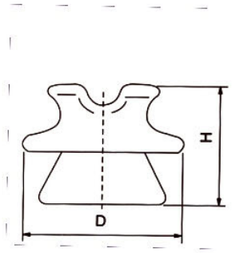


Fig1

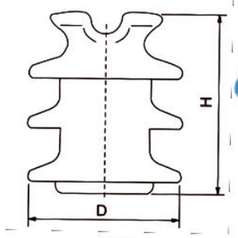


Fig2

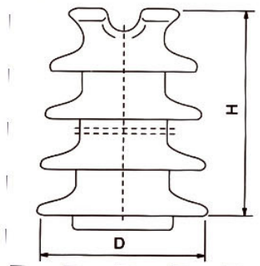


Fig3

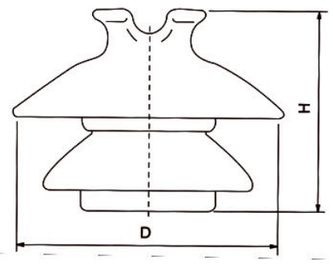


Fig4

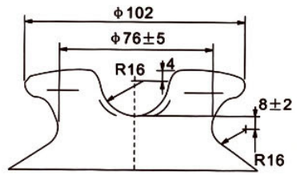


Fig5

MAIN DIMESIONS AND STANDARD PARTICULARS

Type	Fig	Main dimension mm		Creepage Distance	Lighting Impuse Withstand Voltage KV	Wet Power Frequaency Withstand Voltage KV	Minimum Bending Failing Load KN	Recom Mended Pin Type	Designation
		H	D						
SLP/11/180	1	110	150	180	105	30	7	A/130/7	180S7
ALP/11/275	2	160	150	275	105	30	7	C/150/7	275A7
ALP/22/450	3	200	160	450	150	50	11	C/200/11	450A11
ALP/22/490	3	250	165	490	160	50	11	C/200/11	490A11
FLP/22/480	4	200	250	480	150	50	11	C150/11	480F11
ALP/22/520	3	210	200	520	150	50	11	C/200/11	520F11
ALP/33/710	3	265	220	710	220	90	11	C/300/7	710A11
ALP/33/92	3	320	240	920	220	90	11	C/300/7	920A11

GB PORCELAIN DISC SUSPENSION ISULATORS

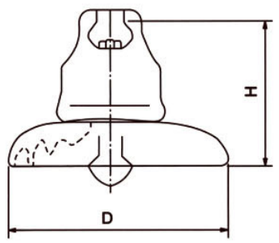


Fig1

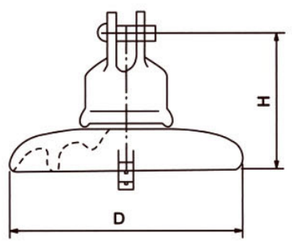


Fig2

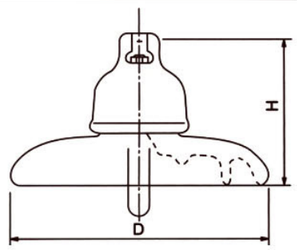
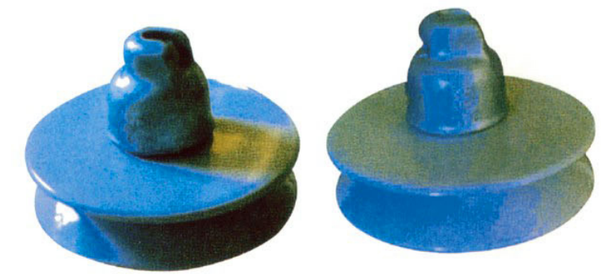


Fig3

MAIN DIMENSIONS AND STANDARD PARTICULARS

Type		X-30/C	XP-60/C	XP-70/c	XP/70/T	XP-100	XP-100
Fig		1/2	1/2	1/2	3	1	1
Main Dimansions (mm)	Heigh Strutre Declarate	140	146	146	146	146	155
	Distance Declarative Ceramic	200	255	255	255	255	255
Coupling To Type		16/16C	16/16c	16/16c	16	16	20
Minimum Creepage Distance		200	280	295	295	295	305
Electromechanical Failing Load (KV)		40	60	70	70	100	160
Impact Strength (N.M)		-	-	565	565	678	1017
Lighting Full Wave Impulse Withstand Voltage (peak) Minimum (KV)		90	100	100	100	100	100
One munute wet Power-Frequency Withstand Voltage (r.m.s) minimum (KV)		30	35	40	40	40	40
Power Frequency Puncture Voltage (KV)		90	110	110	110	110	110
Weight (kg)		3.5	5.5	5.3	5.4	5.6	6.8
The old models		x-3/c	x-4.5/c	XP-7/c	XP-7/T	XP-10	XP-16

GB SUSPENSION TYPE ANTI0-POLLUTION INSULATORS FOR HIGH VOLTAGE



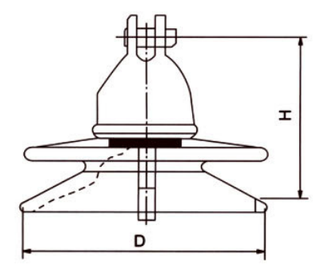


Fig4

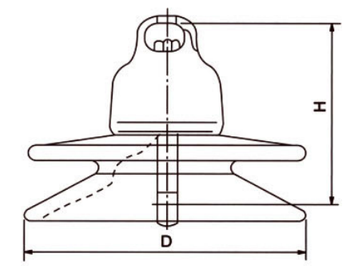


Fig5

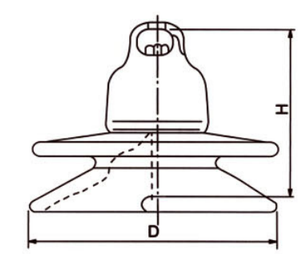


Fig6

MAIN DIMENSIONS AND STANDARD PARTICULARS

Type		XWP$_2$-60/C	XWP2-70/T	XWP2-70/C	XWP100	XWP-160
Fig		6/4	5	6/4	6	6
Main Dimansions (mm)	Heigh Strutre Declarate	146	146	146	160/146	155/146
	Distance Declarative Ceramic	255	255	255	255/280	280/255
Minimum Creepage Distance		400	400	400	400	400
Coupling To Type		16/16c	-	16/16c	16	20
Electromechanical Failing Load (KV)		70	70	70	100	160
Full-wave Impulse Flashover (Peak) (KV)		120	120	120	120	120
Minimum Wet power Frenliency Flashover (r.m.s)(KV) minimum		45	45	45	45	45
Power Frequency Puncture Voltage (KV)		120	110	110	120	120
Weight (kg)		7.2	7.2	8	8	9

GB PORCELAIN POST INSULATORS

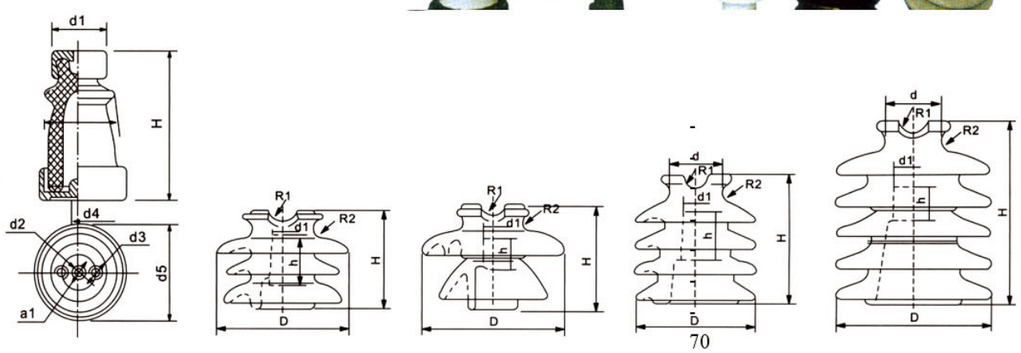


Fig1 Fig2 Fig3 Fig4 Fig5

MAIN DIMENSIONS AND STANDARD PARTICULARS

Type	Fig No.	Main Dimansions											
		h	h1	h2	d	D	d1	d2	d3	d4	d5	a1	a2
ZA-7.2Y	1	165	-	-	-	90	64	M10	M6	M12	108	36	-
ZA-12Y	1	190	-	-	-	90	64	M10	M6	M12	108	36	-
ZN-7.2/4	2	100	18	20	-	85	2-M6	M12	-	-	-	18	-
ZN-12/8	2	120	18	25	-	105	2-M10	M16	-	-	-	24	-
ZN-24/8	2	230	18	35	-	160	2-M12	M20	-	-	-	36	-
ZL-12/4	3	160	10	20	M10	95	2-M8	M16	-	-	-	36	-
ZL-40.5/4	3	380	10	20	M10	90	2-M8	M16	-	-	-	36	-
ZPB-12	4	188	10	13	-	170	2-M8	2-011	-	-	-	36	70

GB SHACKLE INSULATORS GB SPOOL INSULATORS

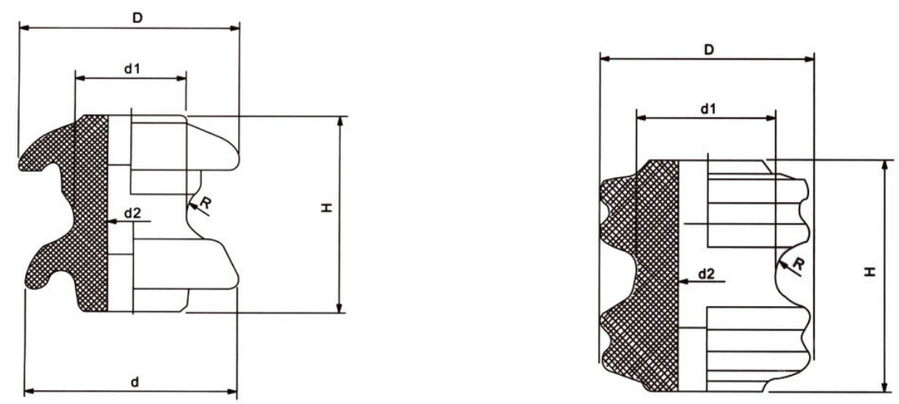


Fig1 Fig2

MAIN DIMENSIONS AND STANDARD PARTICULARS

Type	Fig No.	Main Dimansions						Transverse strength	Low frequency voltage	
		H	D	d	d1	d2	R		Dry	Wei
ED-1	1	90	100	95	50	22	12	1.2	22	10
ED-2	1	75	80	75	42	20	10	1	18	9
ED-3	1	65	70	65	36	16	8	0.8	16	7
ED-4	1	50	60	55	30	16	6	0.5	14	6
EX-1	2	90	85	-	55	22	12	1.5	22	9
EX-2	2	75	70	-	45	20	10	1.2	18	8
EX-3	2	65	65	-	40	16	8	1	16	6
EX-4	2	50	55	-	35	16	6	0.7	14	5

GB PIN INSULTORS

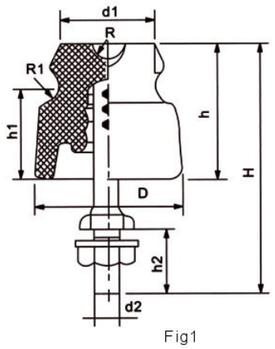


Fig1

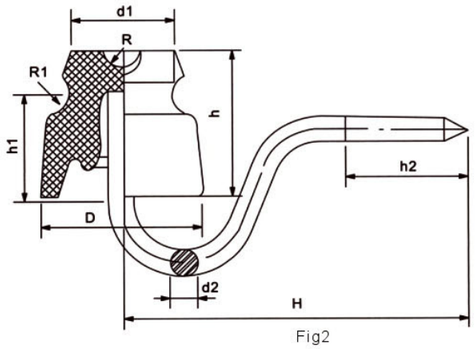


Fig2

Type	Fig No.	H	h	h1	h2	D	d1	d2	R	R1
PD-1T	1	145	80	50	35	80	50	16	10	10
PD-1M	1	220	80	50	110	80	64	16	10	10
PD-2T	1	125	66	45	35	70	44	12	8	8
PD-2M	1	195	66	45	105	70	44	12	8	8
PD-2W	2	155	66	45	55	70	44	12	8	8

GB DRUM INSULATORS

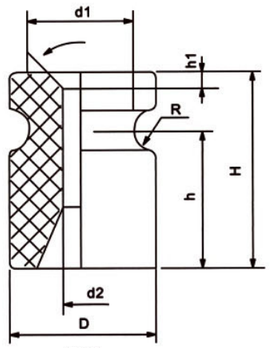


Fig3

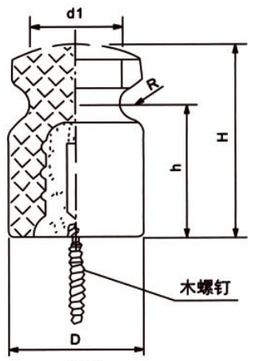
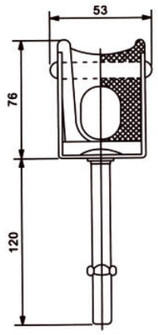


Fig4

Type	Fig No.	H	h	h1	D	d1	d2	R
G-25	3	25	15	3	22	16	7	3
G-28	3	38	25	3	30	20	8	5
G-50	3	50	35	4	36	24	9	6
G-60	3	60	40	5	45	30	10	7.5
G-50	4	50	35	-	35	24	-	6

GB WIRING AND OTHER INSULATORS



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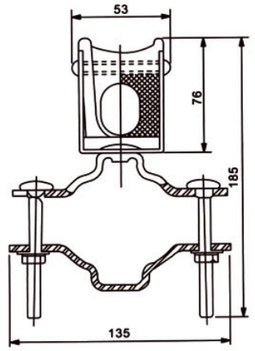

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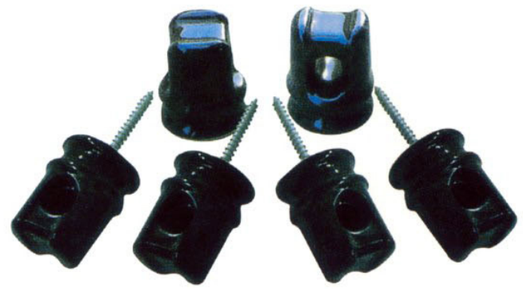

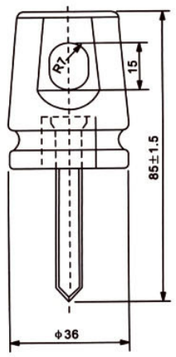

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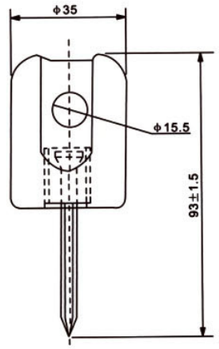

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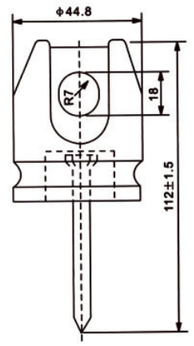

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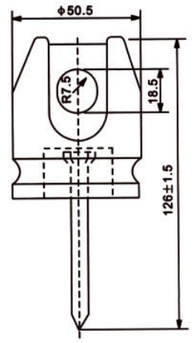

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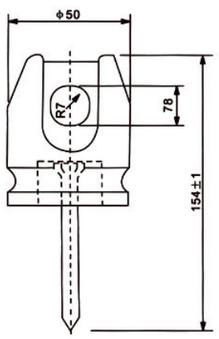

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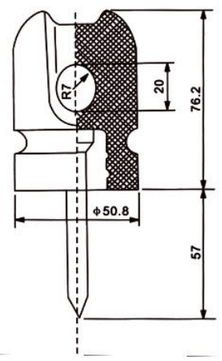

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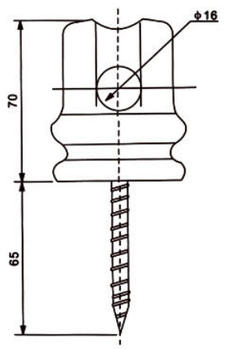
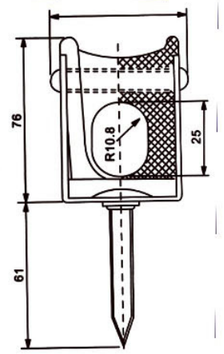
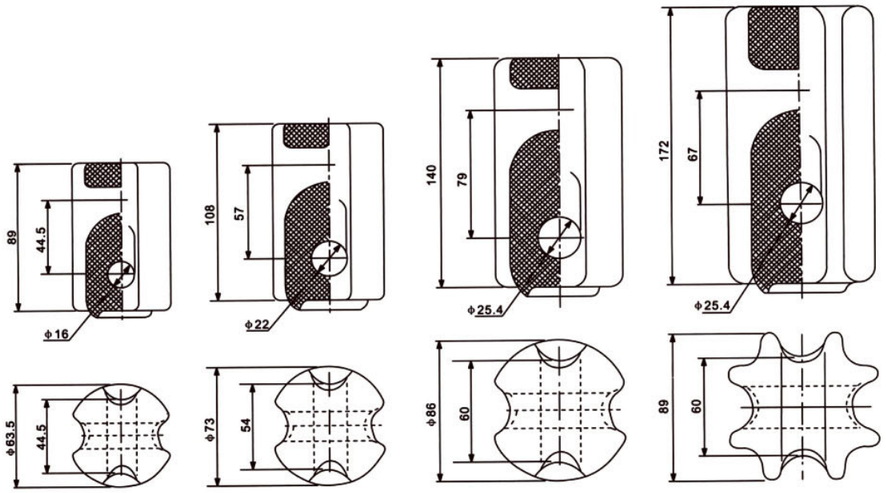


802-3A



802-4

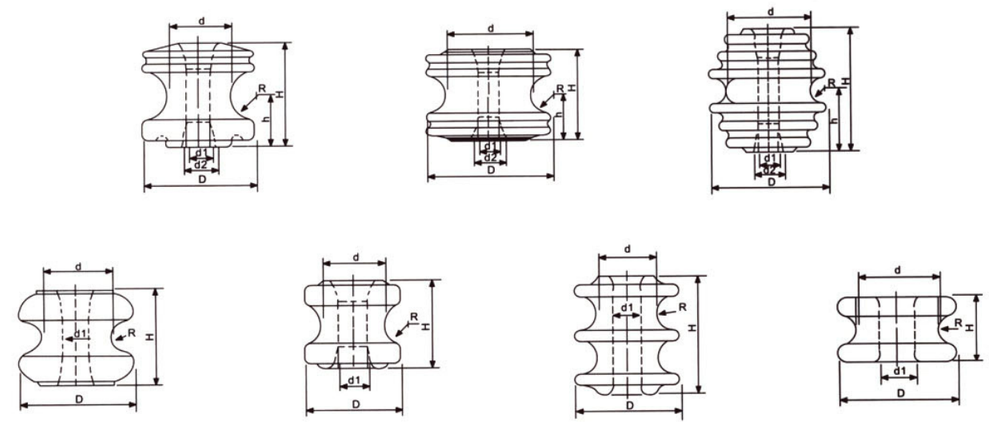
PORCELAIN STAY INSULATOR FOR LINES



MAIN DIMENSIONS AND STANDARD PARTICULARS

ANSI class	Fig No.	Leakage distance (mm)	Mechanical failing load (KN)	Power-frequency flashover voltage (kV)		Weight (N)
				Dry	Wet	
54-1	1	41/1 6/8″	44	25	12	4.9
54-2	2	47/1 7/8″	53	30	15	7.8
54-3	3	57/2 1/4″	89	35	18	12.3
54-4	4	67/3″	89	40	23	17.6

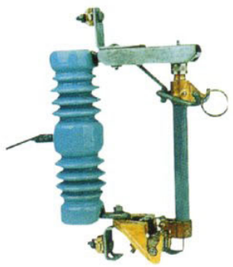
SPOOL INSULATORS



MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat. No. (Class ansi)	Fig No.	Main Dimansions							Transverse strength (N)	Low frequency voltage kV Wet flashover			Weight (N)
		H	h	D	d	d1	d2	R		Day flashover	Vertical	Horizontal	
53-1	2	54	27	57	45	18	22	11	8,900	20	8	10	2.2
53-2	1	76	38	79	45	18	24	18	13,300	25	12	15	5.4
53-3	2	81	40.5	76	45	18	24	11	17,800	25	12	15	5.9
53-4	2	76	38	105	73	18	24	16	20,000	25	12	15	11.3
53-5	3	105	52.5	102	73	18	24	11	26,700	35	18	25	11.8
R-8	7	32		57	40	17.5		7			15	918	1.3
R-6	6	80		70	40	18		7	240	12	15	1350	3.9
R-2	5	76		80	54	17.5		17.5			15	2040	5.9
R-1	5	54		57	39	17.5		11			15	918	2.4
1617	4	65		76	45	17.5		9	900	20	9	9	3.9
1618-1	4	75		89	45	17		13	10000	20	9	9	
1618-2	4	75		89	45	17		12.5	13000	25	12	12	
1617-2	4	67		73		16		14.3					
1617-1	4	65		78		17.5		12.5					
1618-3	4	88		95		22		16					

HIGH VOLTAGE cut out FUSE

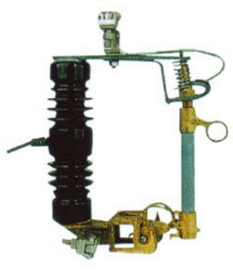


12kV-35kV

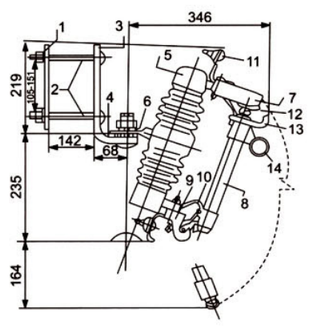
Description:
1.Mounting bracket
2.Long Bolts
3.Mounting Bracket
4.External-Tooth Lock Washer
5.Porcelain Insulator
6.Lock Washer
7.Upper Connection
8.Fuse Holder
9.Lower Connection
10.Lifting Eye
11.Connectors
12.Steady Contacts
13.Load Break Tool Attack Hook
14.Opening Eye

Type	Rated voltage (kV)	Rated courrent (A)	Breaking voltage (A)	Impuulsing voltage (BIL)	Power-frequency withstand voltage (kV)	Crawling distance	Weight (kg)
FRS-7	15	100	10000	110	42	230 m/m	7
FRS-7	15	100	12000	110	42	230 m/m	7
FRH-8	15	100	10000	110	42	230 m/m	7.3
FRH-8	15	100	12000	110	42	230 m/m	7.3
FRH-C	15	100	10000	110	42	320 m/m	7.5
FRH-C	15	100	12000	110	42	320 m/m	7.5
FRH-A	35	100	6000	180	70	800 m/m	25
FRH-A	35	100	8000	180	70	800 m/m	25

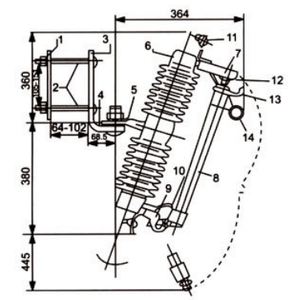
12kV-15kV



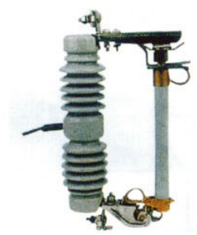
33kV-35kV



HIGH VOLTAGE CUTOUT FUSE



Type	Rated voltage (kV)	Rated courrent (A)	Breaking voltage (BIL)	Impuulsing voltage (BIL)	Power-frequency withstand voltage (kV)	Crawling distance	Weight (kg)
R-98	18	100	8000	125	45	340 m/m	8.8
R-98	18	100	10000	125	45	340 m/m	8.8
R-97	24	100	8000	150	50	500 m/m	12
R-97	24	100	10000	150	50	500 m/m	12
RH-8	35	100	6000	170	70	660 m/m	15
RH-8	35	100	8000	170	70	660 m/m	15



15KV-18KV

24KV

33KV-35KV

12KV

12KV-15KV

12KV-15KV

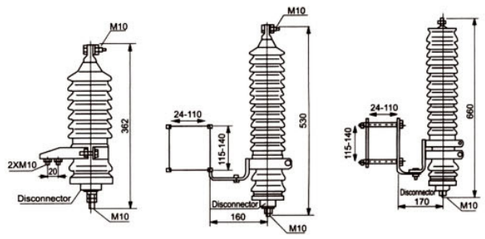
Type	Rated voltage (kV)	Rated courrent (A)	Breaking voltage (BIL)	Impuulsing voltage (BIL)	Power-frequency withstand voltage (kV)	Crawling distance	Weight (kg)
RW-10-10F/100	12	100	6300	70	42	230m/m	7
RW-10-10F/100	12	200	6300	70	42	230 m/m	7
RW-11-10F/100	12	100	6300	70	42	330 m/m	3.5
RW-11-10F/100	12	200	6300	70	42	330 m/m	3.5
PRWG-10F/100	12	100	6300	70	42	340 m/m	8.5
PRWG-10F/100	12	200	6300	70	42	340 m/m	8.5

Lightning ARRESTER

Hws lightning arrester

Type	System rated voltage (KV)	Lightning arrester rated voltage (KV)	Lightning arrester continuous operating voltage (KV)	DC 1mA Voltage (KV)	Norminal discharge current wire (KV)	Square wage impulse current endurance (A)
HWS-3.8/17	3	3.8	2.0	7.5	17	100
HWS-7.6/30	6	7.6	4.0	15	30	100
HWS-10/30	6	10	4.0	15	30	100
HWS-12.7/50	10	12.7	6.6	25	50	100
HWS-17/45	10	17	12.7	25	50	100

HWS

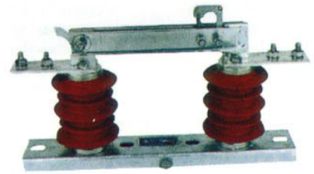


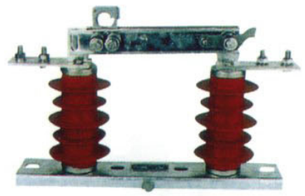
5C-F10C

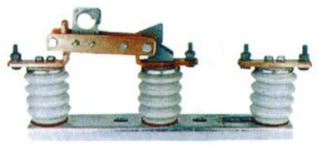
5C-10C Lightning arrester

Type	Rated voltage (kV)	Power frequency discharge current ≤KV	Impulse discharge voltage ≥KV	8/20 uS Residual voltage for lightning nmpulse ≤KV	Square wave through discharge A	4/10 uS Impulse max current 20 times kV	Front-of-wave Impulse max sparkover voltage kV
5C-15	15	26	47	57	100	40	47
10C-15		26	43	51	150	65	43
5C-18	18	33	48	57	100	40	66
10C-18		33	48	60	200	65	70
5C-24	24	40	66	80	100	40	88
10C-24		40	66	80	200	65	92
5C-33	33	56	100	123	100	40	100
10C-33		56	93	113	200	65	93
5C-36	36	61	106	133	100	40	106
10C-36		61	99	120	200	65	99

High-Voltage isolater Serirs







12V

Type	Rated voltage KV	Rated current A	4S Heat steady e.c. A	Shock voltage A	Impulse with-stand voltage		Power-frequency withstand voltage	
					To earth KV	Across the isolating distance KV	To earth KV	Across the isolating distance KV
GW9-10W/40	12	400	12500	31500	75	85	38	42
GW9-10W/630	12	600	12500	31500	75	85	38	42

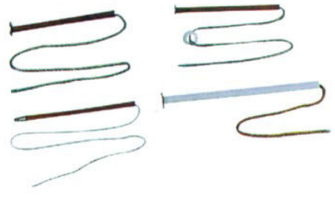
15V

Type	Rated voltage KV	Rated current A	4S Heat steady e.c. A	Shock voltage A	Impulse with-stand voltage		Power-frequency withstand voltage	
					To earth KV	Across the isolating distance KV	To earth KV	Across the isolating distance KV
GW9-10W/40	12	400	12500	31500	75	85	38	42
GW9-10W/630	12	600	12500	31500	75	85	38	42

0.5A-1600A

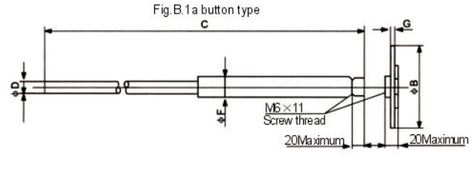
Fuse piece Rated current	120A	150A	220A	300A	360A	470A	600A
Fuse piece specification	0.15	0.20	0.30	0.50	0.60	0.80	0.90
Transformer volume	80	100	150	180-200	250	315-320	400

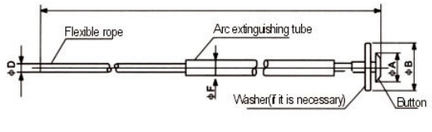
High-Voltage fuse link



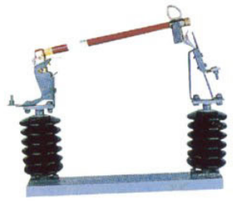
Rated current (A)	Dimension (mm)				
	A	B	C	D	F
1 to 25	12.5±0.2	19.0±0.3	Note1	2.0	6.5
30 to 40	12.5±0.2	19.0±0.3	Note1	3.0	8.0
50 to 100	19.0±0.3	Not applicable	Note1	5.0	9.0
140 to 200	19.0±0.3	Not applicable	Note1	7.0	13.0

Fig.B.1a button type

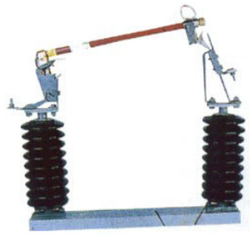




10KV-15KV(f)



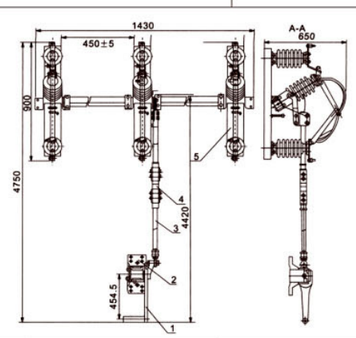
11KV



36KV

Technology Parameter

Rated voltage (kV)		Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequaency withstand-voltage	Leakage Distance (mm)	Weight (KG)	Dimension (cm)
10KV-15KV	a	100	8000	110	40	340	7.5	42×33×11.5
		200	10000	110	40	340	7.5	
	b	100	8000	110	40	340	7.5	49×27×11.5
		200	10000	110	40	340	7.5	
	b	100	8000	110	40	260	8.5	48×44×13.5
		200	10000	110	40	260	8.5	
	d	100	8000	110	40	250	9	38.5×34.5×10.5
		200	10000	110	40	250	9	
	e	100	8000	110	40	250	7.3	38.5×34.5×10.5
		200	10000	110	40	250	7.3	
	f	100	8000	110	40	530	12	51.5×51.5×13
		200	10000	110	40	530	12	
27KV-33KV		100	6000	170	70	480	23	56×38×14.5
		200	8000	170	70	480	23	
33KV-36KV		100	6000	170	70	530	13	57×38×14.5
		200	8000	170	70	530	13	
36KV-38KV		100	6000	170	70	820	27.5	61×38×14.5
		200	8000	170	70	820	27.5	



Type	Rated voltage (kV)	Rated current (A)	4S Heat steady e.c.A	Shork voltage (A)	Impulse withstand voltage (kV)	Power-Frequaency withstand-voltage
RH-B	11	400	12500	31500	95	42
RH-B	33	600	12500	31500	195	80

HRC Fuse series

USE SCOPE

This series HRC suit for AC 50Hz, 12kV 400A Power system for over load and short circuit Protection Roted breaking Capacity. This series products comply GB 15166 and IEC 291,282,644,787 comply.

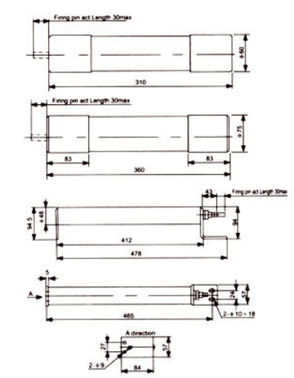
Design feature

There are two kinds Join type one is directly Join the other is input type it had srore energy spring type structure can be cut off very fast.

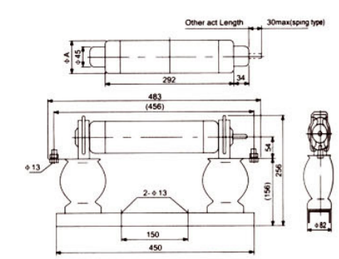
Date

ITEM	Fused body type		Rated Voltage (KV)	Rated Voltage (A)
1601	GR	ϕ40×332	12	6.3-125
		12kv×In		

Type. Rated voltage. Rated current. A-S Dinensions installation see and Draning

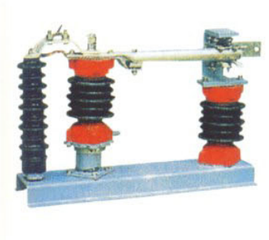


ITEM	Fused body type		Rated Voltage (KV)	Rated Voltage (A)
1602	GR7	ϕ60×310	7.2	31.5-100
		7.2kv×In		
1603	GR8	ϕ75×360	7.2	100-355
		7.2kv×In		
1604	GR13	ϕ48×478	7.2	25-80
		7.2kv×In		



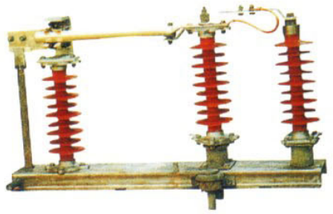
ITEM	Fused body type			Rated Voltage (KV)	Rated Voltage (A)	Dimensuin (mm) ϕA
		Fuerte	Same series			
1609	GR9	ϕ88×360	SDLDJ	12	6.3-63	51
		10kv×In				
1610	GR10	ϕ76×360	SFLDJ SKLDJ	12	6.3-63	76
		12kv×In				

Main Priduct Series Isolating Switch



10
GW-17/630-2000A
35

New type round stick stly isolating switch
Can be equipped with arrester and silicon rubber

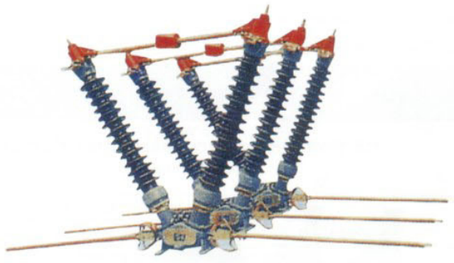


HGW4-40.5/630-2000A

New type round stick stly isolating switch
Can be equipped with arrester and silicon rubber

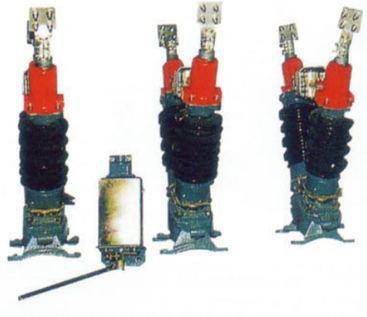
RW5-35KV

RW9-35 Outdoor HV cuurent
Limiting fuse



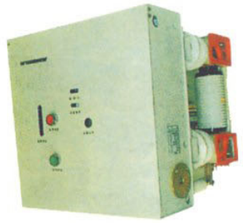
60
GW-110KG630-2000A Outdoor isolating switch

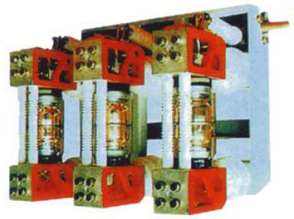
Outdoor Gu, AL buster through-wall busing



GW5-35 KV-600~2000A Outdoor isolating switch

ZN28-12 series vacuum circuit breaker





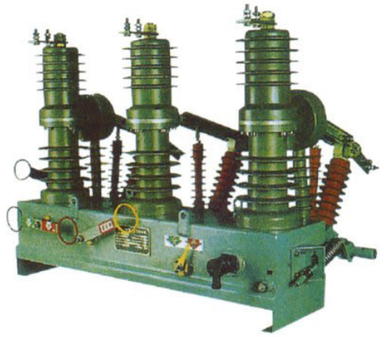
ZN28-12 series vacuum citcuit breaker is a kind of indoor high-volt switch equipment of rated volt 12KV, AC three-phase 50Hc.
The structure of that be divided into two kinds: switchgear and operating mechanism mounted unifiedly, switchgear and operating mechanism mounted separately. Unified structure is ZN28-18 basic stlyle; separate is ZN 28a-12 style, which is available in various fixed switchgear cubicle, as G1A(Z), XGN 2A10(Z) and so on.
This product can beapplied with CD17, CD10A type DC electromagnetic operating mechanism and CT17^CT19 type spring charging operating mechanism.

Principle Technical Parameter

No.	Designation		Unit	Data			
				20kA	25kA	31.5kA	40kA
1	Rated Volt (KV)		KV				
2	Rated Current (KV)		A	630,1000	1250,1600	1250,1250	1600,1250
				1250		2000,2500	3150
3	Rated short circuit breaking current		KA	20	25	21.5	40
4	Rated short circuit opening & closing current (summit)		KA	50	63	80	100
5	Rated summit withstand current		KA	50	63	80	100
6	4S rated short circuit withstand current		KA	20	25	31.5	40
7	Rated insulating level	Industrial-frequency withstand voltage (Rated breaking around)	KV	Frature 48			
		Impulse withstand voltage (Rated breaking around)		Frature 48			
8	Rated operating sequence			Open-0.3s-close&open-180s&open			
9	Mechanism Life		Time	1000			
10	Rated short circuit breaking current & times		Time	30			20
11	Rated closing volt (DC) of operating mechanism		V	110,220		220	
12	Rated closing current (DC) of operating mechanism		A	71			128
13	Rated opening volt (DC) of operating mechanism		V	3.0, 1.5			
14	Rated opening current (DC) of operating mechanism		A	110,220			
15	Contactoe Distance		mm	11±1			
16	Extra-Stroke (contactoe spring length)		mm	4±1			
17	Un-meaning property of three-phase opening, closing brake		ms	≤2			
18	Spring time of contactor closed		ms	≤2			
19	Average opening brake (6mm height)		m/s	1.2±0.3			
20	Average opening speed		m/s	0.6±0.2			
21	Opening time	Under max operating volt	s	≤0.08			
		Under min operating volt		≤0.06			
22	Closing time		s	≤0.02			
23	Main circuit resistance of each phase		μ Ω	≤40			≤0.02
24	Permitted wear thickness of movable and stationary contactor		mm	3			
25	Buffering strokr of oil butter		mm	10			

ZW32-12 outdoor use hv pole mounted vacuum circuit breaker

ZW32-12 outdoor use high voltage vacuum circuit breaker for rated voltage 12K. V, three phase SOllz system is mainly used to break and make loading current, verloading current and short circuit of electric distri-bution system in substation, mineral enterprises and furthermore agricultural power networks in order to protect and control the connected equipment.



Ambient conditions

◇Altitude not more than 1000m
◇Ambient temperature:-40~+40℃ and difference in a day not more than 25℃
◇Wind speed not exceeding 34m/s
◇No flammable or explosive danger, no chemical corrosive medium and severe vibration shall exist.

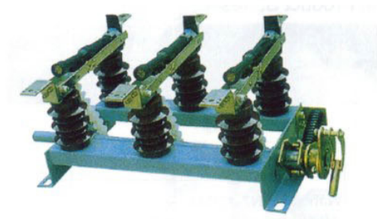
Characteristics

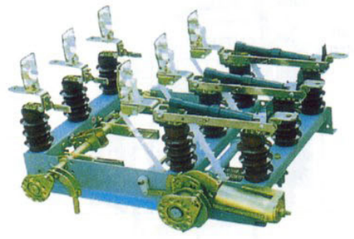
Fully hcrrmctical structure: Able to improver the character of anti moisture and dew, the VCB can be worked in high temperature and high humidity zone, and effectively avoid from corrosion due long term outer atmosphere, compact and rational structure, weight less than 80kgs.
Vacuum interrupter: High and secure breaking capacity, low abrasion of contacts, short circuit breaking capacity up to 20KA.
No flammable and explosive events occur, safety and maintenance free.
Outdoor used epoxy resin of enclosure: reinforced the insulation performance caused from moist conditions and anti-corrosion from ultraviolet radiation, meet with the requirement of working high climatic proof and sever ambient conditions
Operating mechanism: New style, simple, secure action, mechanical life up to 10000 operations. Manual operation, electrical operation and remote control available.
Multi-function: Two phases of three phase outdoor CT may be equipped for control and measure. Operated with controller remote control and monitoring can be realized.

FN5-12 series indoor use, high voltage load swtch and fuse combined switch

Gerneral

FN5-12R(L) indoor use fuse combined load switches are self develop through absorbing foreign modern technology and in consideration of domestic power supply requirements. This product passed the full type test and long term working trial. The perform ances meet with the standards of IEC420(AC High Voltage Load Switch Fuse combined Electrical Apparatus)(1990)and GB3804<3-63KV AC High Voltage Load Switch >. Compared to the foreign advanced familiar products. They are completely under same level. Small volume, light weight,It can be used in ring main unit and kiosksubstations, widelyused for the distribution of 12KV electricityand effectively avoid working under phase failure.
This product fill up the absence in domestic products. And it can operate in three positions (ON/OFF, isolating and earthing)





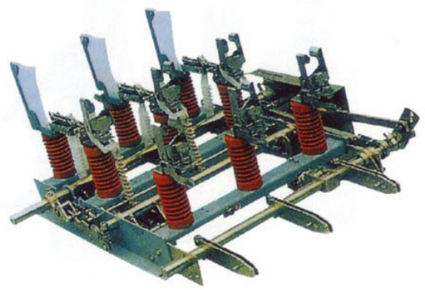
HRC fuse ratings

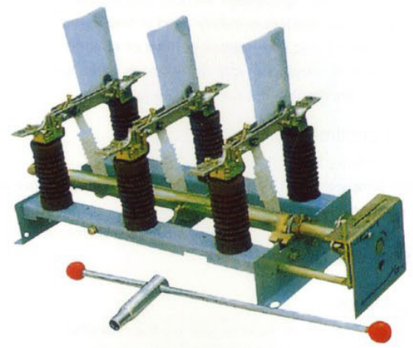
Type	Rated Voltage	Rated current (A)	Rated current of fuselink
SDLA*J	12	40	6,3,10,16,20,15,21,5,40
SFLA*J	12	100	50,63,71,80,100
SKLA*J	12	125	125

Main Product Series

Rated Voltage	Highest working voltage	Power frequency withstand voltage	Rated current (A)	4s Short time withstand current	Peak withstand current	Rated breaking current	Short circuit making current
12	12.7	42	400	12.5	31.5	400	31.5
			630	16	40	630	40

FN7-12 series indoor use, high voltage load switch and fuse combined switch





FN-7-12DR is of new type indoor use air compressed AC high voltage load switch for breaking and making the circuit of 50Hz, 12K.V system under rated loading and short circuit current.

◇Ambient temperature scope: from 12℃to 40℃
◇Heavy cole zone: 25℃ allowed
◇Altitude not more than 1000m
◇Relative humidity: average everyday not exceeding 95%, Monthly average not more than 80%
◇There shall have no conductive dust, no corrosive gases, no severe vibration and impact, no combustion and explosion on the site for switch operating.

Main Product Series

Name	Kind	Model	DS	DX	L	R	RA	P	Application
			For coming	For outing	Interlcoks	Fuse	Striker fuse	Motor switch off	
Koad switch	Without striker fuse	FN7-12	-	-	-	-	-	-	Switch for power line
		FN7-12DSL	△	-	△	-	-	-	
		FN7-12DXL	-	△	△	-	-	-	
		FN7-12R	-	-	-	△	-	-	Switch for protecting transformer
		FN7-12DSLR	△	-	△	△	-	-	
		FN7-12DXLR	-	△	△	△	-	-	
	With striker fuse	FN7-12RAF	-	-	-	-	△	△	Switch for protecting transformer
		FN7-12DSLARF	△	-	△	-	△	△	
		FN7-12DXLARF	-	△	△	-	△	△	

FN12-12 series indoor use high voltage load switch

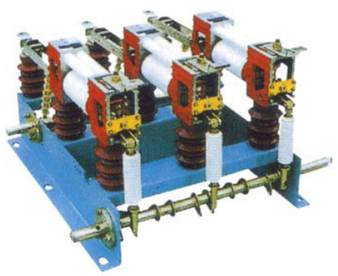
Gerneral

FN12-12 and FN12-12R is ofthrcc phases indoor use AC high voltage load switch for breaking and making the circuit of 50Hz, 12KV system under rated loading, closed loop current, no-loading transformer, cable charged current and short circuit current. The load switch equipped with earth switch can withstand short circuit current, and m-ainly used in power distribution substation and industrial electrical equipment where three phase closed loop circuit or bottom power supply system for control and protection.

ZFN16-12 series indoor use Vacuum load switch

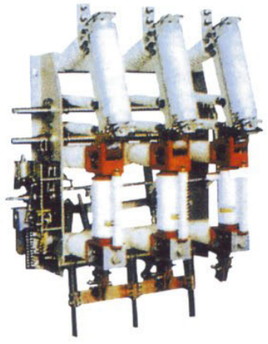
General

ZFN16-12 Series indoor use AC high voltage load switch-(and the one combined with fuse) comply with the standards of IEC420(AC High Voltage Load Switch Fuse combined Electrical Apparatus)(1990) and GB3804 《3-63KV AC High Voltage Load Switch》 ZFN16-12 series indoor use AC high voltage load switch is suitable in the system of 50Hz, 12KV for breaking and making short circuit current. It prefers operating under the site where has no oil, inspection and repair free and no need of frequent operation.
The switch has independent isolating breaks,low operating torque,the vacuum arcextinguishing chamber,as client required,can be provided with porcelain or glass type.It is the ideal generation to avoid old oil type switch.



ZFN21-12D/T630-20
ZFN21-12DR/T125-31.5
Indoor use Vacuum load switch(and the one with fuse)

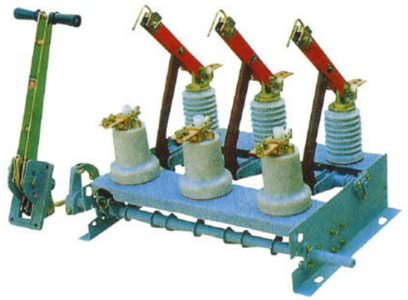
ZFN21-12D/T630-20, ZFB21-12DR/T125-31.5 type high voltage vacuum load switch are used in the system of 50Hz, 12KV. Merits: compact structure, small volume, light weight, long life, high making and breaking capacity, safety and security . It combined with fuse, can replace the costly circuit breaker. Easy and convenient operation and maintenance.



FN3-12 series indoor use, high voltage load switch

Gerneral

FN3-12, FN3-12R, FN-12R/S load switches are of indoor operated high voltage devices in the network system of 50Hz, 6KV or 12KV to break and make the circuit of rated loading and overload current, also able to break and make noload long distance power line. The switches with RN3 HRC fuse (FN3-12R, FN312R/S) can switch off the short circuit to protect the switch.
The switches are operated by the manual mechanism of Cs3 or CS0.



Working conditions

◇Altitude not more than 1000m;
◇Ambient temperature scope: from 12℃ to 40℃;
◇Relative humidity indoor less than 90%under 25%;
◇Ther shall have no conductive dust;
◇No corrosive gases;
◇No severe vibration and impact;
◇No combustion and explosion on the site for switch operating.

Technial data

The switches meet with the follwing data

Type	Rated voltage(kv)	Hightest working voltage (KV)	Rated current (A)	Peak with stand current	Short time withstand current
FN3-12	12	12.7	400	25	10/2

The switches with HRC fusemeet with the following data

Type	Rated voltage (kV)	Rated current (A)	Max breaking current	Max breaking capacity	Peak value under breaking ultimate short circuit current
RN3-3	3	10-50	40	200	24.5
		75-100			24.5
		200			35
RN3-6	6	10-50	20	200	14
		75			14
		100			19
		200			25
RN3-12	12	10-50	12	200	8.6
		75			8.6
		100-50			15.5

ZW8-12G/630-20 Outdoor use, pole mounted dry type vacuum circuit breaker

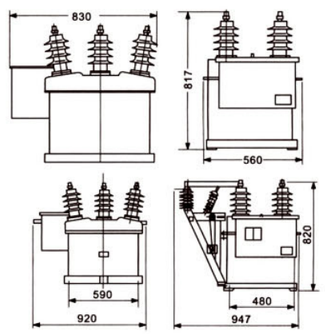
Application

As outdoor AC high voltage switchgear of three-phase 50Hz, the ZW8-12 series outdoor AC high voltage vacuum circuit-breaker mainly serves in the urban and rural power network of 10kV to make and break load current, overload current and short-circuit current and in the similar occasions as well.

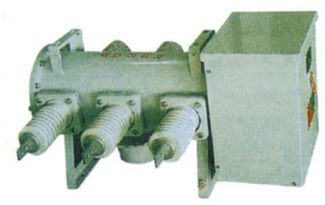
Main technical parameter

Rated voltage		12KV
Rated current		630A
Rated insulation level	1min power frequency withstand voltage	45KV
	Lightning impulse withstand voltage (peak value)	75KV
Rated short-circuit breaking current		12.5KA, 16KA, 20KA
Rated short-circuit making current (peak value)		31.5KA, 40KA, 50KA
Rated peak withstand current		31.5KA, 40KA, 50KA
Rated short-time withstand current (4s)		12.5KA, 16KA, 20KA
Mechanical endurance		10000 times

Contour and installation dimensions



LW3-12 outdoor AC HV Sf6 circuit breaker



Application

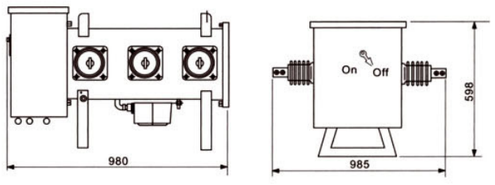
LW3-12 series outdoor AC high-voltage Sf6 circuit breaker is the new-model one, which adopts SF6 gas as its arcextinguishing and insulation medium. It has such characters as simple construction, more reliable performance of arcextinguishing and insulation, lower power consumption, wider range of rated parameters, lower power consumption, wider range of rated parameters, longer service life and longer non-maintenance duration.

The product is applicable in the power system of three-phase AC 10KV and 50Hz to act as control and protection device in the micromidi power substation.

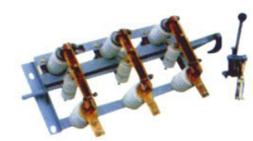
Main technical parameter

Rated voltage	10KV
Rated current	400A,630A
Rated short-circuit breaking current	6.3KA,12.5KA,16KA
Rated making current (peak value)	16KA,31.5KA,40KA
Rated peak withstand current	16KA,31.5KA,40KA
Rated short-time withstand	6.3KA,12.5KA,16KA
Short-circuit duration	4s

Contour and installation dimensions



GN19-12(C) Series



Application

GN19-12(C) Series indoor High-voltage isolating Switch is a kind of high-voltage switchgear and can be used in the power supply system of AC 50Hz and rated voltage 12kV. If used with Model CS6-1 manual actuator, it can switch in/out the circuit under the condition of zero-load and voltage.

Model and meaning

G N 19 - 12(c) / □

- Rated current Unmarked with C: flushing type
- Marked with C: wall through type
- kV rated voltage
- Design order number
- Indoor type
- Isolating switch

Normal working conditions

The height above sea level not exceeding 1000m;
Ambient air temp: upper limit +40℃
Lower limit -30℃
Relative humidity not larger than 90% (+25℃)
Earthquake intensity not exceeding 3.1d;
Place without any fire disaster, explosive danger, severe pollution, chemical corrosion or strong vibration.

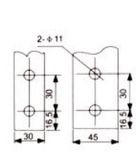
Main Technical Data

1.Refer to table 1 for technical data of main circuit.

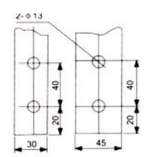
Model	Rated voltage (kV)	Rated current (A)	Thermal withstand current (effective value) for 4s (kA)	Dynamic standing current(KA)
GN19-12/400-12.5	12	400	12.5	31.5
GN19-12/630-20	12	630	20	50
GN19-12/1000-31.5	12	1000	31.5	80
GN19-12/1250-40	12	1250	40	100
GN19-12C/400-12.5	12	400	12.5	31.5
GN19-12C/630-20	12	630	20	50
GN19-12C/1000-31.5	12	1000	31.5	80
GN19-12C/1250-40	12	1250	40	100

Outline and installation size

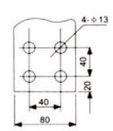
Product model	A	B	C
GN19-12/400	450	436	4-14×24
GN19-12/630	490	436	
GN19-12/1000/1250	510	530	4-18×28
GN19-12C/400	420	625	4-14×24
GN19-12C/630	460	625	
GN19-12C/1000/1250	505	745	4-18×28



GN19-12(C)/400



GN19-12(C)/630



GN19-12(C)/1000/1250

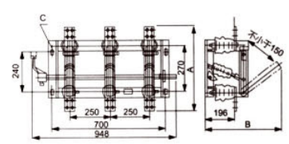


Fig 1 GN19-12(C)/series

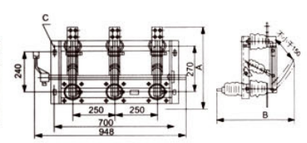
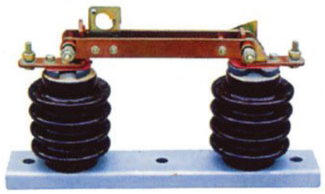


Fig 1 GN19-12(C)/series

GW9-12 Series Outdoor Single-pole Isolating Switch



Model and meaning

G W 19-12 / □

- Rated current A
- kV rated voltage
- Design order number
- Outdoor type isolating switch
- Isolating switch

Application

GW9-12 Series Outdoor Single-pole Isolating Switch can be used in high voltage transmission and distribution line of 50Hz and 12KV, for making and breaking the single phase or three-phase line with zero-load voltage.

Normal Working Condition

1.upper limit of ambient air temp,is+40℃，lower limit is-30℃ for general regions and -40℃ for high and cold regions;
2.The height above sea level not exceeding 2000m;
3.Wind pressure not exceeding 700Pa（equivalent to 34m/s）；
4.Earthquake:3.1d;
5.Place without and inflammable or esplosive danger,conductive,chemical corrosion or sever vibration;
6.The ice covering not exceeding 10mm;
7.Air pollution degree:III

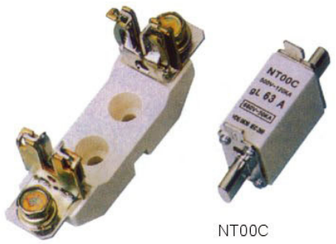
Structural Features

The isolating switch is composed of base, bar type isolator, conducting strip, and fuse hook.
The conducting strip is mounted with fuse hook. After switchingin, it well self-lock,and not automati-cally switch out under the deadweight or electric actuaing force. The isolting force.The isolating switch is designed to be single-pole structure and can stiwchin /out by using hook bar and separately control each phase of 3-phase circuit.

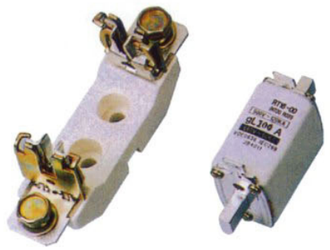
Main Technical Data

Model	Rated voltage (kV)	Rated current (A)	Dynamic standing current (kA)	Thermal withstand cuttent 2s (kA)
GW9-12/200	12	200	8	3.15
GW9-12/400	12	400	31.5	12.5
GW9-12/630	12	630	40	16

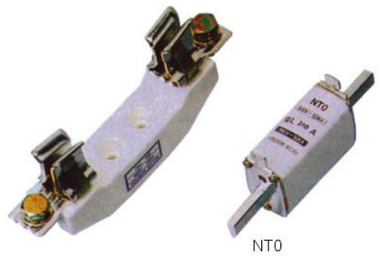
NT HRC LOW VOLTAGE FUSE AND BASE



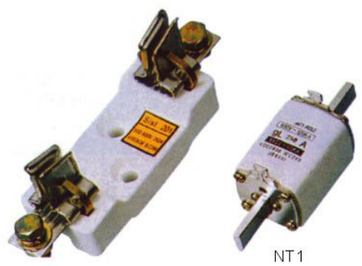
NT00C



NT00



NT0



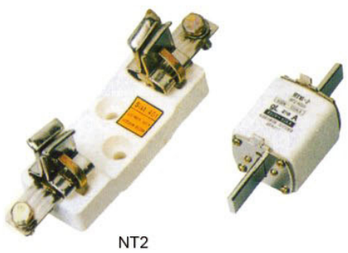
NT1

NT type low voltage H.R.C fuse features light in weight, small in size, low in power loss and high in beaking capacity. This product has been widely used in overload and short circuit protection of electric installations.
This product conforms to IEC269 and VDE 0636 standards of the rating at the world advanced level.

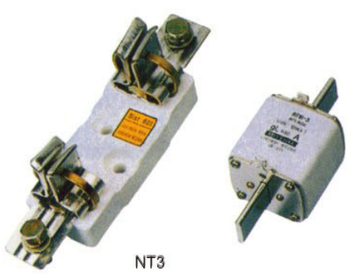
Specifications:

Type	Fuse link				Type	Fuse base	
	Rated current (V)	Rated voltage (V)	Rated power loss (W)	Weight (kg)		Rated current (A)	Weight (kg)
NT00C NT00	2	500,600	0.41	0.15	Sist101	160	0.2
	4		0.81				
	6		0.62				
	10		1.08				
	16		1.60				
	20		1.81				
	25		2.31				
	32		3.07				
	36		3.17				
	40		4.05				
	50		4.25				
	63		5.7				
	80		7				
	100		1.03				
NT0	6	500,600	4.70	0.2	Sist101	160	0.32
	10	500,600	1.42				
	16	500,600	2.45				
	20	500,600	2.36				
	35	500,600	2.7				
	32	500,600	3.74				
	35	500,600	4.3				
	40	500,600	4.7				
	50	500,600	5.5				
	63	500,600	6.9				
	80	500,600	7.6				
	100	500,600	8.9				
	125	500	10.1				
	160	500	15.2				
Ny1	80	500,600	6.2	0.36	Sist201	250	0.8
	100	500,600	7.5				
	125	500,600	10.2				
	160	500,600	13				
	200	500,600	15.2				
	224	500	16.8				
	250	500	18.3				

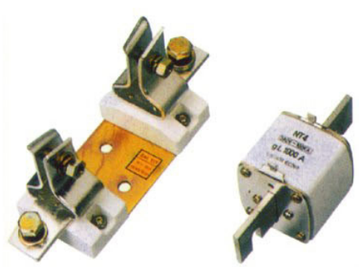
NT H.R.C LOW VOLTAGE FUSE AND BASE



NT2



NT3

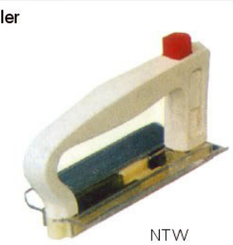


NT4

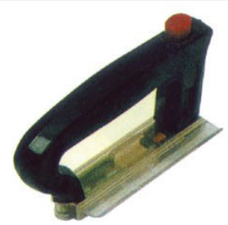
Specifications

Type	Fuse link				Type	Fuse base	
	Rated current (V)	Rated voltage (V)	Rated power loss (W)	Weight (kg)		Rated current (A)	Weight (kg)
NT2	125	500 600	9	0.65	sist401	400	1.2
	160	500 600	11.5				
	200	500 600	15				
	224	500 600	16.6				
	250	500 600	18.4				
	300	500 600	21				
	315	500 600	19.2				
	355	500 600	24.5				
	400	500 600	26				
Nt3	315	500 600	21.7	0.85	sist601	630	1.5
	355	500 600	22.7				
	400	500 600	26.8				
	425	500 600	28.9				
	500	500	32				
Nt4	800	380	62	1.95	sist1001	1000	3.45
	1000	380	75				

Fuse Puller



NTW



NTB

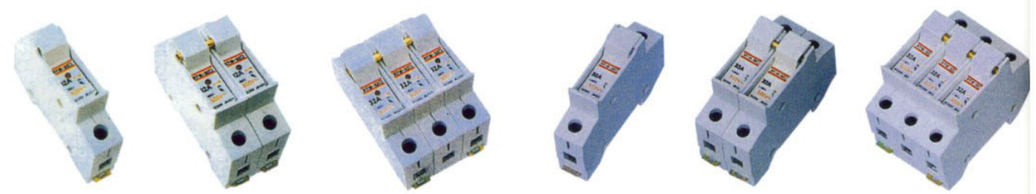
FUSE LINK

5×20 250V | 6×32 250V | 10×25 250V | 12×25 250V | 8×31 500V | 10×38 500V | 14×51 500V | 22×58 500V | 30×57 500V

D01 380V | D02 380V | D03 380V | D I 500V | D II 500V | DIII 500V | DIV 500V

FUSE BASE

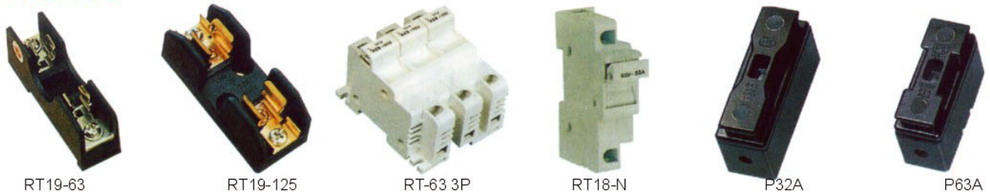
RL6-16ND | E16 | E27 | E33 | E33×3



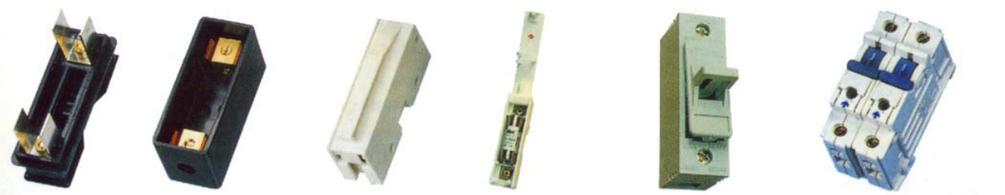
RT18-32X 1P | RT18-32X 2P | RT18-32X 3P | RT18-32X 1P | RT18-32X 2P | RT18-32X 3P

RT18-63X 1P | RT18-63X 2P | RT18-63X 3P | RT19-16 | TR19-32

FUSE BASE



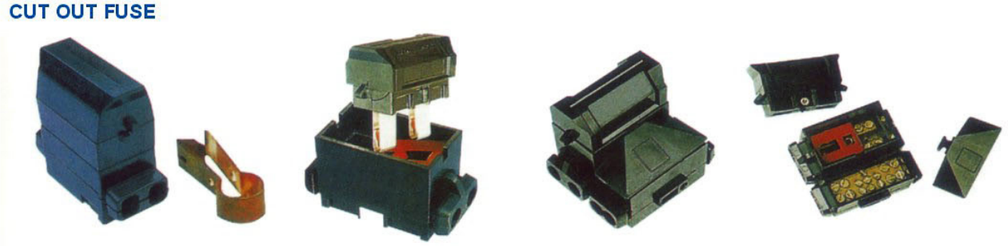
RT19-63 RT19-125 RT-63 3P RT18-N P32A P63A



100A RT14-63 RT14-32 RT14-20 B1-1P,2P,3P

B2-1P,2P,3P NT00-3P NT00-3PM FS-101 FS-102

CUT OUT FUSE



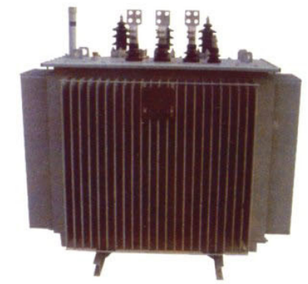
60/80A 100A 2P+N 60/80A, 100A

FUSE SOCKET

BL-1 for 5 ×20 glass fuse
BLX-1 for 6×32 glass fuse
BLX-2 for 6×32 glass fuse
BL-2 for 6×32 glass fuse
BLX-3 for 6×32 glass fuse

OIL Immersed Transformer

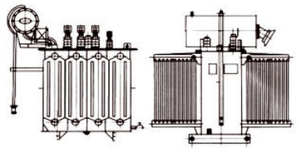
S9 Series 11kV Distribution Transformer



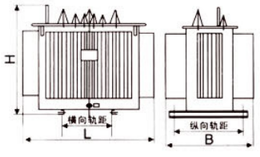
30kVA~2500kVA Three-phase Duplex Winding Non-excited Tap-Changing Distribution Transformer

Rated capacity (kVA)	Voltage Combination and Tap range			Vector Group Symbol	Loss (kW)		Weight (T)			Boundary Dimension (mm) (L)×(M)×(H)		Gauge vertical/ horizontal (mm)	No-load current (%)	Impedance Voltage (%)
	HV (kV)	HV Tap Range%	LV (kV)		No-load	Load	Body	Oil	Total	Omniseal	Un-omiseal			
30	6 6.3 10 10.5 11	±5 ±2×2.5	0.4	Dyn11 Yxzn11 Yyn0	0.13	0.63/0.60	0.19	0.07	0.30	1050×580×1100	1065×550×1135	400/400	2.3	0.4
50					0.17	0.91/0.87	0.28	0.09	0.39	1080×600×1150	1105×670×1185	450/400	2.0	
63					0.20	1.09/1.04	0.29	0.10	0.45	1100×630×1150	1135×685×1120	450/400	1.9	
80					0.25	1.31/1.25	0.34	0.10	0.51	1150×670×1095	1100×630×1300	450/400	1.9	
100					0.29	1.58/1.50	0.36	0.11	0.55	1170×710×1220	1150×670×1245	450/400	1.8	
125					0.34	1.89/1.80	0.44	0.12	0.66	1230×730×1270	1170×710×1370	550/400	1.7	
160					0.40	2.31/2.20	0.51	0.15	0.78	1320×790×1290	1230×730×1410	550/550	1.6	
200					0.48	2.73/2.60	0.59	0.16	0.90	1330×760×1360	1320×790×1420	550/550	1.5	
250					0.56	3.20/3.05	0.72	0.21	1.105	1330×760×1360	1330×760×1510	650/550	1.4	
315					0.67	3.83/3.62	0.82	022	1.245	1380×760×1380	1380×760×1530	650/550	1.4	
400					0.80	4.52/4.30	0.98	0.29	1.53	1520×830×1460	1520×830×1610	750/550	1.3	
500					0.96	5.41/5.15	1.16	0.32	1.76	1550×890×1500	1550×890×1650	750/660	1.2	
630				Dyn11 Yyn0	1.20	6.20	1.43	0.41	2.19	1630×910×1580	1680×960×1730	750/660	1.1	4.5
800					1.40	7.50	1.67	0.47	2.57	1700×960×1650	1700×960×1850	850/660	1.0	
1000					1.70	10.30	1.90	0.55	2.97	1750×1080×1650	1750×1080×1950	850/820	1.0	
1250					1.95	12.00	2.16	0.64	3.43	1840×1140×1770	1840×1140×1970	850/820	0.9	
1600					2.40	14.50	2.59	0.75	3.76	1930×1300×1810	1930×1300×2020	900/820	0.8	
2000					2.52	17.80	2.95	0.87	4.35	2100×1640×1930	2100×1640×2170	900/820	0.5	
2500					2.80	20.70	3.69	0.96	5.24	2120×1750×1970	2120×1750×2190	1070/1070	0.4	

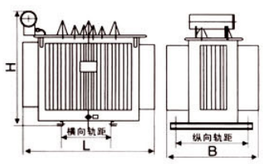
Note 1: Rated capacity 500KVA and below transformer, the load loss above the oblique line in the table applies to Dyn 11 or Yzn11; the load loss below the oblique line applies to Yyno.
Note 2: According to requirements, the transformer can supply HV tap change ±2×2.5%
Note 3: According to requirements, the transformer can supply LV 0.69kV



OMNISEAL (ENCAPSULANT) SHEET TYPE TRANSFORMER
UN-OMNISEAL (ENCAPSULANT) SHEEP TYPE TRANSFORMER



OMNISEAL CORRUGATED TYPE TRANSFORMER



UN-OMNISEAL CORRUGATED TYPE TRANSFORMER

S9 Series 33kV Power Transformer

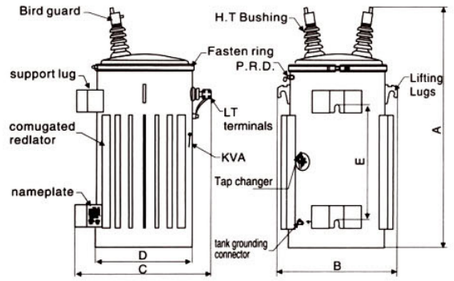
50kVA~1600kVA 3-phase Duplex Winding Non-excited Tap-changing Distribution Transformer

Rated capacity (kVA)	Voltage Combination and Tap range			Vector Group symbol	No-load loss (kw)	Load loss (kw)	No-load current (%)	Short-circuit Impedance Voltage %
	HV (kV)	HV Tap Range%	LV (kV)					
50	35	±5 ±2×2.5	0.4	Dyn11 Yyn0	0.21	0.27/1.21	2.00	6.5
100					0.29	2.12/2.02	1.80	
125					0.34	2.50/2.38	1.70	
160					0.36	2.97/2.83	1.60	
200					0.43	3.50/3.33	1.50	
250					0.51	4.16/3.96	1.40	
315					0.61	5.01/4.77	1.40	
400					0.73	6.05/5.76	1.30	
500					0.86	7.28/6.93	1.20	
630					1.04	82.28	1.10	
800					1.23	9.90	1.00	
1000					1.44	12.15	1.00	
1250					1.76	14.67	0.90	
1600					2.12	17.55	0.80	

Note 1: Rated capacity 500 KVA and below transformer, the load loss above the oblique line in the table applies to Dyn11 or Yzn11; the load loss below the oblique line applies to Yyno.
Note 2: According to requirenments, the transformer can supply HVtap change ±2×2.5%
Note 3: outline dimension is designed according to requirements.

630Kva~31500kVA 3-phase Duplex Winding Non-excited Tap-Changing Power Transformer

Rated capacity (kVA)	Voltage Combination and Tap range			Vector Group symbol	No-load loss (kw)	Load loss (kw)	No-load current (%)	Short-circuit Impedance Voltage %
	HV (kV)	HV Tap Range%	LV (kV)					
630	35	±5 ±2×2.5	3.15 6.3 10.5	Yd11	1.04	8.28	1.10	6.5
800					1.23	9.90	1.00	
1000					1.44	12.15	1.00	
1250					1.76	14.67	0.90	
1600					2.12	17.55	0.80	
2000					2.72	19.35	0.70	
2500					3.20	20.70	0.60	
3150	35~35.8	±5 ±2×2.5	3.15 6.3 10.5		3.80	24.30	0.56	7.0
4000					4.52	28.80	0.56	
5000					5.40	33.03	0.48	
6300					6.56	36.90	0.48	
8000	35~35.8	±5 ±2×2.5	3.15 3.3 6.3 6.6 10.5 11	Ynd11	9.00	40.50	0.42	7.5
10000					10.88	47.70	0.42	
12500					12.60	56.70	0.40	8.0
16000					15.20	69.30	0.40	
20000					18.00	83.70	0.40	
25000					21.28	99.00	0.32	
31500					25.28	118.80	0.32	



Type D16A Single-phase Pole-mounted Transformer (CRGO core BIL 95)

KVA	HV	TAPS	LV	Loss (w)		Dimension (mm)				E	Weight wgt	Oil Qty (kg)
				No-load	Full-load	A	B	C	D			
5	13200/7620 or 11000/6350 or 12470/7200	±2×2.5% or 0	120 240 480 or 120-240 240-480	20	105	840	400	480	310	286 591	70	16
10				36	184	860	430	510	340		95	22
15				48	250	910	430	510	340		120	25
25				72	360	1040	480	560	380		158	34
37.5				95	495	1120	560	610	450		240	55
50				116	640	1245	560	610	450		285	59
75				160	840	1245	640	680	510		295	76
100				200	1080	1270	680	710	510		450	84
167				295	1600	1480	960	840	610		610	135

Type D16B Sing-phase Pole-mounted Transformer (CRGO core BIL 95)

KVA	HV	TAPS	LV	Loss (w)		Dimension (mm)				E	Weight wgt	Oil Qty (kg)
				No-load	Full-load	A	B	C	D			
5	13200/7620 or 11000/6350 or 12470/7200	±2×2.5% or 0	120 240 480 or 120-240 240-480	16	85	860	400	480	310	286 591	85	16
10				27	165	890	430	510	340		130	22
15				36	235	920	470	550	380		170	29
25				52	350	1055	480	560	380		210	34
37.5				68	495	1125	530	580	420		305	55
50				82	606	1245	560	610	450		350	62
75				116	820	1245	640	680	510		440	76
100				155	1010	1280	720	750	550		510	92
167				246	1580	1460	960	840	610		640	146

DRY-Type Transformer
IOkV SC(ZB)9 series protective casing transformer

Product Standard

GB/T10228 GB6450
rated high voltage:
10(10.5, 11, 6, 6.3, 6.6)kV
rated low voltage: 0.4kV
tapping range
non-esciting regulation
(±5%, ±2×2.5%)
on-load regulation(±4 X 2.5%)
Connection symbol: Dyn11 or Yyn0
insulation gradation: LI75AC35/AC5

Model Mark

Rated high voltage
(filling with the rated value)
rated capacity(kVA)
function level code
low voltage foil winding
on-load tap changing
Trinple phase solid molding(epoxy casting)

Model	no-loac loss (W)	load losf (75℃) (W)	impedance voltage (%)	No-loai curren (%)	LPA (dB) Sound level	Weight (kg)	Dimmension（mm）										Low voltage terminal
							a	b	c	d	e	f	g	i	k1	k2	
SC9-30/10	210	630	4	2.8	40	280	600	400	615	350		175			200		25×3
SC9-50/10	295	880		2.4	42	340	600	400	715	350		175			200		25×3
SC9-80/10	390	1210		2.3	44	565	760	500	820	450		190			260		25×3
SC9-100/10	425	1390		2.1	46	610	760	500	870	450		190			260		40×4
SC9-125/10	500	1630		1.9	48	640	760	500	910	450		190			260		40×4
SC9-160/10	580	1880		1.9	50	830	1100	600	990	550	840	235	290	300	355	80	40×4
SC9-200/10	665	2230		17	50	990	1150	600	1020	550	870	245	300	300	360	80	50×5
SC9-250/10	700	2430		17	50	1160	1200	600	1050	550	890	250	305	300	380	80	50×5
SC9-315/10	940	3060		1.5	51	1340	1240	750	1090	660	940	260	320	350	400	120	60×6
CB9-400/10	1045	3520		1.5	51	1600	1290	750	1200	660	1050	270	330	350	415	120	60×6
CB9-500/10	1230	4300		1.5	53	1830	1340	750	1225	660	1125	300	345	350	430	120	60×6
CB9-630/10	1430	5180		1.3	53	1870	1380	750	1260	660	1200	305	345	350	450	150	80×8
CB9-630/10	1390	5260	6	1.3	53	2410	1470	750	1225	660	1115	310	345	350	475	150	80×8
CB9-800/10	1620	6130		1.6	55	2500	1510	750	1320	660	1210	310	350	350	490	150	80×8
CB9-1000/10	1890	7170		1.2	55	2980	1570	900	1420	820	1300	330	370	350	510	150	100×8
CB9-1250/10	2230	8550		1.2	55	3530	1650	900	1470	820	1350	340	370	350	535	150	100×10
CB9-1600/10	2610	10350		1.2	55	4450	1760	900	1570	820	1450	335	385	350	575	150	100×12
CB9-2000/10	3550	12450		0.9	55	5230	1860	1200	1670	1070	1540	355	390	350	605	200	120×12
CB9-2500/10	4320	15150		0.9	55	6000	1970	1200	1770	1070	1650	365	400	350	640	200	120×15
CB9-3150/10	4500	19200		0.7	57	7100	2080	1200	1870	1070	1760	370	410	350	670	200	120×25
CB9-4000/10	5500	23500		0.7	57	9200	2200	1200	2000	1070	1880	380	415	350	685	200	180×20

Note:on-load regulation series transformer regulates the two date items as follows:1.weight increment 100kg;
2.Transformation flank a increase 650mm or face b increase 750mm assighed by on-load switch.

10kV SCIZB)10 series protective casing transformer

Model or Name

SC Z (B) 9 - XXX X / **

- Rated high voltage (filling with the rated value)
- rated capacity(kVA)
- function level code
- low voltage foil winding
- on-load tap changing
- Trinple phase solid molding(epoxy casting)

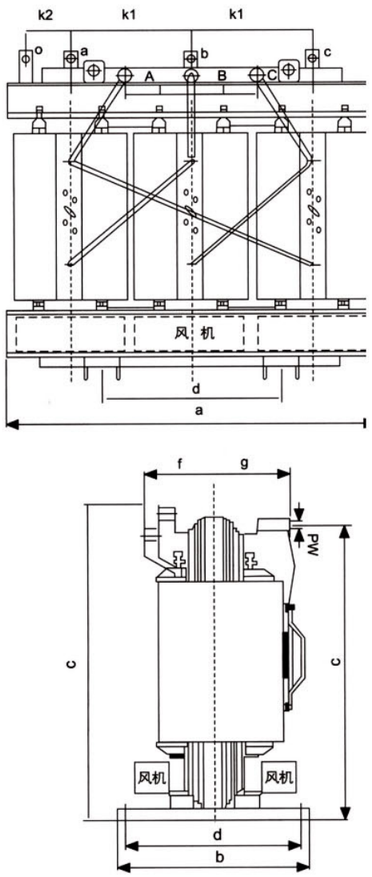
Product Standard

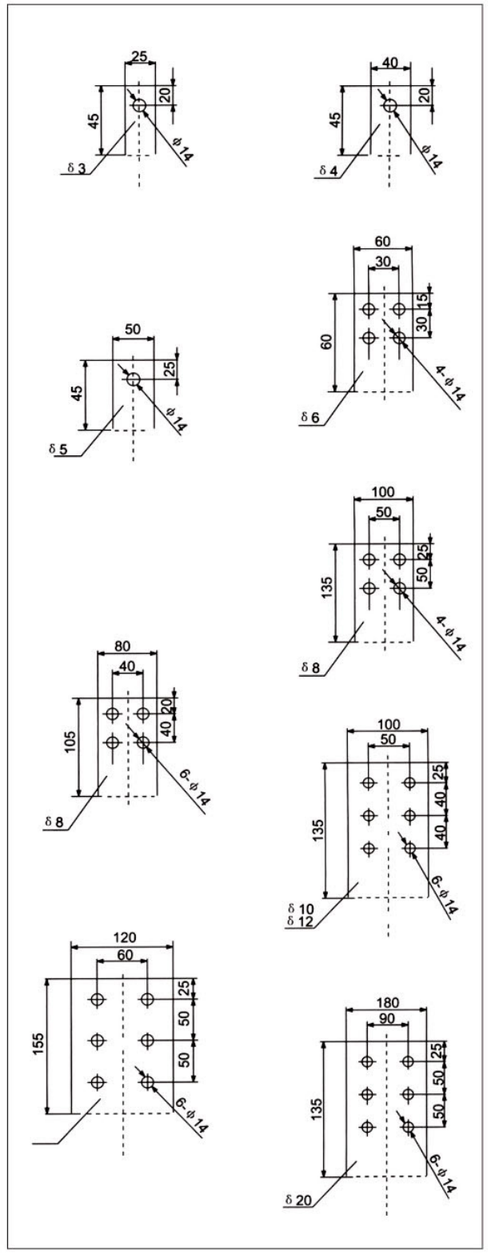
GBfT10228 GB6450
rated high voltage:
10(10.5, 11, 6, 6.3, 6.6)kV
rated low voltage: 0.4kV
tapping range
non-esciting regulation
(±5%, ±2×2.5%)
on-load regulation(±4× 2.5%)
Connection symbol: Dyn11or Yyn0
insulation gradation: LI75AC35/AC5

Model	no-loac loss (W)	load losf (75℃) (W)	impedance voltage (%)	No-loai curren (%)	LPA (dB) Sound level	Weight (kg)	Dimmension（mm）										Low voltage terminal
							a	b	c	d	e	f	g	i	k1	k2	
SC10-30/10	190	590	4	2.5	38	290	600	400	650	350		250			195	80	25×3
SC10-50/10	265	840		2.2	40	360	600	400	740	350		250			195	80	25×3
SC10-80/10	350	1150		2.1	44	590	750	500	860	450		255			260	80	25×3
SC10-100/10	380	1320		1.9	44	640	750	500	910	450		255			260	80	40×4
SC10-125/10	450	1550		1.7	46	670	750	500	950	450		255			260	80	40×4
SC10-160/10	520	1790		1.7	46	870	1100	600	990	550	900	230	280	300	355	120	40×4
SC10-200/10	600	2120		1.5	46	1040	1150	600	1050	550	940	240	290	300	370	120	50×5
SC10-250/10	690	2310		1.5	47	1220	1200	600	1080	550	970	240	290	300	385	120	50×5
SC10-315/10	850	2910		1.3	47	1470	1280	750	1150	660	1070	250	300	350	415	120	60×6
SCB10-400/10	940	3170		1.3	49	1760	1350	750	1200	660	1100	285	320	350	435	120	60×6
SCB10-500/10	1100	4090		1.3	49	2050	1380	750	1270	660	1175	290	320	350	445	120	60×6
SCB10-630/10	1290	4920		1.2	49	2450	1420	750	1390	660	1280	290	330	350	470	150	80×8
SCB10-630/10	1250	5000	6	1.2	49	2360	1510	750	1290	660	1185	295	330	350	490	150	80×8
SCB10-800/10	1460	5820		1.2	51	2730	1530	750	1370	660	1260	295	330	350	495	150	80×8
SCB10-1000/10	1700	6810		1.1	51	3270	1620	900	1460	820	1350	310	340	350	520	150	100×8
SCB10-1250/10	2000	8120		1.1	51	3840	1660	900	1510	820	1400	315	340	350	540	150	100×8
SCB10-1600/10	2350	9830		1.1	51	4920	1790	900	1650	820	1540	340	365	350	585	150	100×10
SCB10-2000/10	3200	11830		0.8	51	5780	1950	1200	1800	1070	1800	355	410	350	630	200	120×12
SCB10-2500/10	3890	14390		0.8	51	6600	2200	1200	2150	1070	2000	375	430	350	660	200	120×15
SCB10-3150/10	4050	18240		0.6	53	7800	2300	1200	2150	1070	2100	390	440	350	680	200	120×25
SCB10-4000/10	4950	22320		0.6	53	10000	2400	1200	2250	1070	2200	410	460	350	700	200	180×20

Note:on-load regulation series transformer regulates the two date items as follows:1.weight increment 100kg;
2.Transformation flank a increase 650mm or face b increase 750mm assighed by on-load switch.

10kV SC(ZB)9-10 Series Outline Dimensional Drawing





Note:

1 For high voltage lead terminal Md, while capacity SN<2000kVA, Md=M12; while SN≥2000kVA, Md= M16

2. Low voltage terminal with unsymmetrical structure, parameters k1,k2 shown in the drawing.

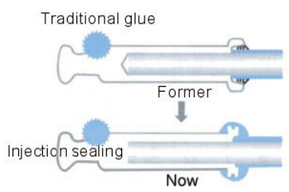
3. The transformer without armed with trolley, if needed, the height should be raised 100mm.

4. The size of forced air cooling system(blower) should not exceed body size range (a x b)

Transformer Accessories

POST INSULAORS

With advanced producing equipments and methods，inspecion means as well，our composite insulators reach up to the and international standard，becoming the import -ant and necessary insulator products in the high-voltage distribution line.



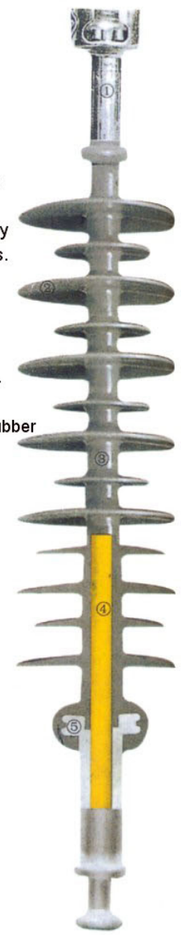
1.End fitting: The fitting connection adopts the zinc cover protection, super-sonic monitor and coaxial constant compression controlled by computer, finshed with good appearance and quality.

2.The silicon rubber rain shed, designed according to the aerodynam -ics principle, use the whole-molding molding method, to make sure the validity of total creepagge distance under every climate and nasty conditions, as well as improve the pllution discharge of the insulators.

3.The average thickness of protective cover≥5mm, comply with IEC standard.

4.Fiber rod: Uses the ECR high-temperature and acid-proof fiber rod.

5.The end fitting uses maze type waterproof design, and out-cover rubber process, which enhanced the product waterproof greatly.



Silicon rubber with fine formulas have good waterproof and leakage withstand ability

The fittings made by special steel, together with advanced compression technique, ensuring the stability and accurate of insulators.

END FITTNGS

W-7(10)
End fitting
EP178

Q-7(10)
End fitting
EP179

Y-7(10)
End fitting
Ep180

QP-7(10)
End fitting
Ep181

Q-7U (10)
End fitting
EP182

OH-7U (10)
End fitting
Ep183

EPS-10kV (M20)
End fitting
EP184

FPS-10kV (M16)
End fitting
Ep185

Q-7, 10 (100KN)
End fitting
EP186

FS-33(8KN)
End fitting
EP187

FZS-66AKV (8KN)
End fitting
EP188

Φ40 End fitting
Ep189

BOW-50KN
End fitting
Ep190

ZF-5KN
End fitting
EP191

FS-5KN
End fitting
EP192

FS-200kV (5KN)
End fitting
EP193

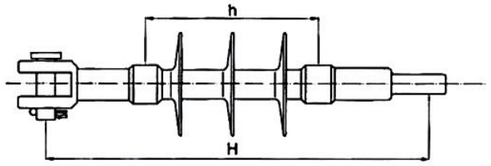
ZW-35kV (10KN)
End fitting
EP194

ZW-40.5kV (10KN)
End fitting
Ep195

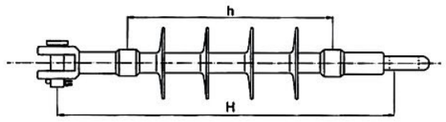
ZF-35kV (10KN)
End fitting
Ep196

ZF-110kV (8KN)
End fitting
EP197

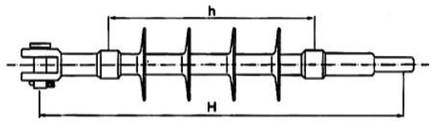
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	h Insulating distance (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXB$_1$-12/70CT	12	70	330±15	150	355	88	45	105



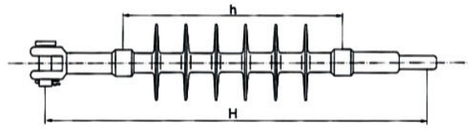
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	h Insulating distance (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXB$_1$-15/70CE	15	70	425±15	240	510	88	65	145



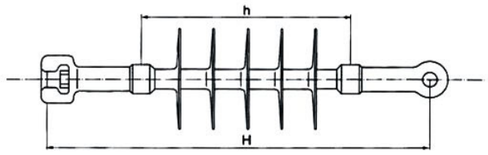
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	h Insulating distance (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXB$_1$-15/70CT	15	70	380±15	195	460	88	65	140



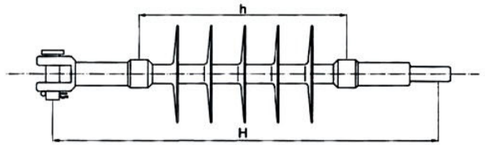
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	h Insulating distance (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXB$_1$-24/70CT	24	70	455±15	260	680	100	70	155



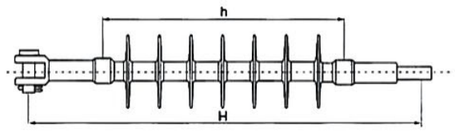
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	h Insulating distance (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXB$_1$-24/70SE	24	70	390±15	192	650	116	70	150



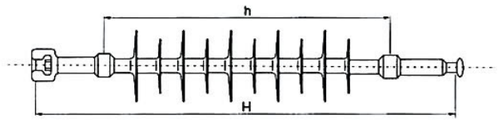
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	h Insulating distance (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXB$_1$-25/70CT	25	70	45 6±15	260	650	108	75	200



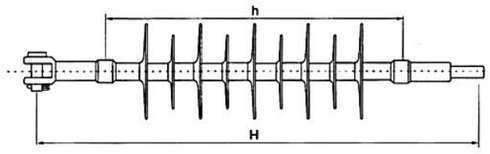
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	h Insulating distance (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXB-36/70CT	36	70	519±15	333	820	98	80	210



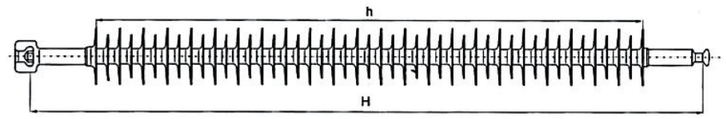
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	h Insulating distance (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXBW$_4$-36/70SB	36	70	640±15	445	1230	125/93	95	230



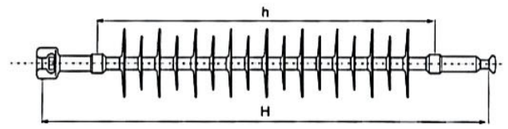
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	h Insulating distance (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXBW$_4$-35/70CT	35	70	630±15	445	1280	140/108	95	230



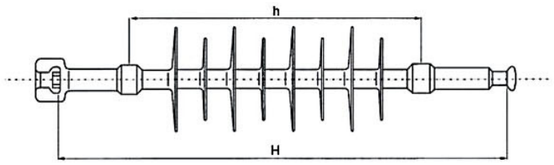
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	h Insulating distance (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXB$_y$-110/160(120)SB	110	160 (120)	1552±15 1470±15	1247	680	4580	126/96	750



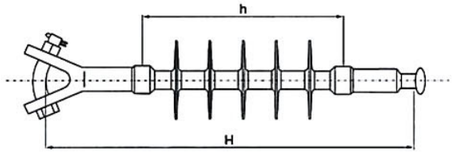
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	h Insulating distance (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXB-66 70SB	66	70	890±15	704	2240	139/109	185	410



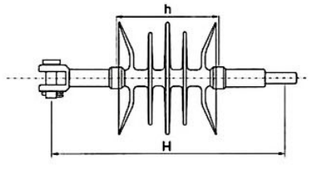
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXB_3-24/120SB	24	120	598±10	1000	125/93	50	150



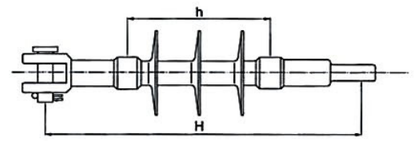
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	h Insulating distance (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXB_1-24/70YE	24	70	460±15	260	650	108	75	200



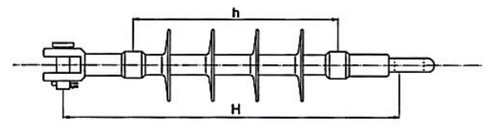
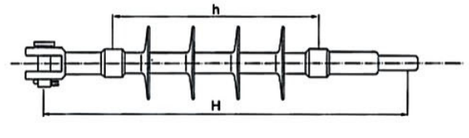
Name	Type	Rated voltage (kV)	Rated mechanical load(kN)	H Structure height (mm)	h Insulating distance (mm)	Min. Nominal creepage distance (mm)	Diameter of shed (mm)	(kV) 1min power frequency wet withstand voltage	(KV) Full wave lightning impulse withstand voltage (peak value)
Composite suspension rod insulators	FXB-21/70CT	21	70	300±15	140	530	127/102	92	190



Name	Rated voltage (kV)	Min nominal creepage distance (mm)	Rated mechanical tension load (kN)	1min power frequency wet withstand voltage not less than (kV)	Full wave lightning impulse withstand voltage (peak value) not less than (kV)	Structure height (mm)	Min Electricatrc distance (mm)
Tension insulator for Isolating switch	24	750	40	70	150	290	236



Name	Rated voltage (kV)	Min nominal creepage distance (mm)	Rated mechanical tension load (kN)	1min power frequency wet withstand voltage not less than (kV)	Full wave lightning impulse withstand voltage (peak value) not less than (kV)	Structure height (mm)	Min Electricatrc distance (mm)
Tension insulator for Isolating switch	36	1440	40	95	210	564	511



Name	Rated voltage (kV)	Min nominal creepage distance (mm)	Rated mechanical tension load (kN)	1min power frequency wet withstand voltage not less than (kV)	Full wave lightning impulse withstand voltage (peak value) not less than (kV)	Structure height (mm)	Min Electricatrc distance (mm)
Tension insulator for Isolating switch	36	1420	100	120	250	580	430