

INSULATOR SPINDLE

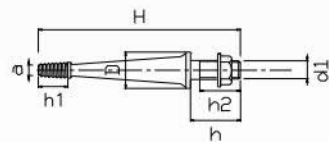
ANSI & BS STANDARD

Spindle is a slender rod or pin used in insulators as a anchor point to connect the insulators with electrical wires or cables .

6 Purpose
Fixing Insulator

2 Material
Mild Steel

7 Process Mode
Hot dip /
Cold galvanized



Main Dimension(mm)							Mechanical Strength	Class ANSI	Weight	Fig 1 No.
H	D	h	h1	h2	a	d1	(kN)		(kg)	
330	76	178	51	76	34.9	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	1
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	5.17	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	2
356	76	76	51	76	34.9	16	5	56-2	1.9	1
305	38	140	74	44.45	18.29	20	5	BS Small Steel	1	3
352	41	127	80	44.45	18.29	22	5	BS Small Steel	1.2	3
215	38	50	44	44.45	18.29	20	5	BS Small Steel	0.75	3
261	60	46	47	41	27.78	22	10	BS Large Steel	1.5	4
369	51	140	47	78	27.78	22	10	BS Large Steel	2	4



CROSS ARM

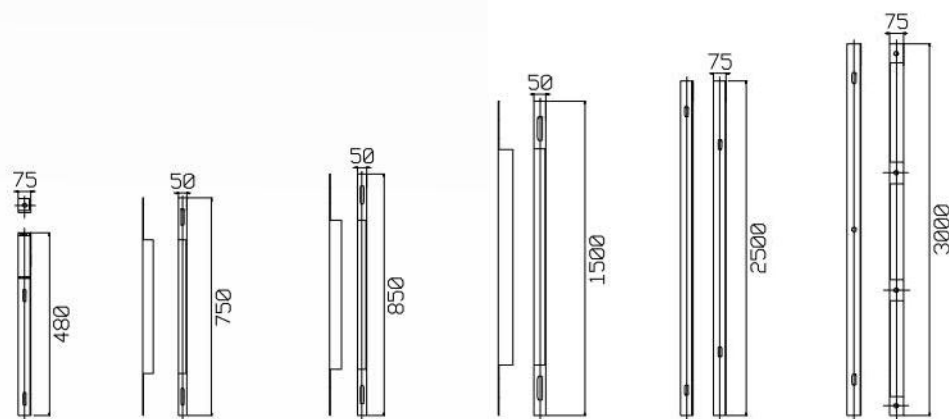
480MM-3000MM SERIES

Cross arm is a kind of angle iron fixed on the top of telegraph pole ,it is a important part for pole and tower ,it is used to install insulators and power fittings in order to supporting wires and lighting conductors ,which make them keep safe distance between each other by rule.

6 Purpose
Fixing Insulator

2 Material
Mild Steel

7 Process Mode
Hot dip /
Cold galvanized



Cross Arm
480 × 75 × 6

Cross Arm
750 × 50 × 4
850 × 50 × 4
1500 × 50 × 4

Cross Arm
2500 × 75 × 6

Cross Arm
3000 × 75 × 6

TUBULAR & TURNBUCKLE STAY ROD

Stay rod is a post shaped construction element apply for electric power lines ,it is a connection between wires or electrical conductors ,it can be divided into tubular and turnbuckle types.

6

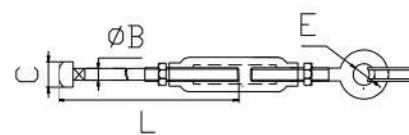
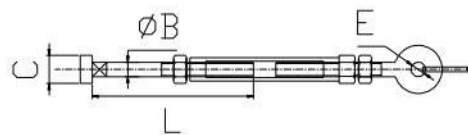
Purpose
Connection
for electrical cable

2

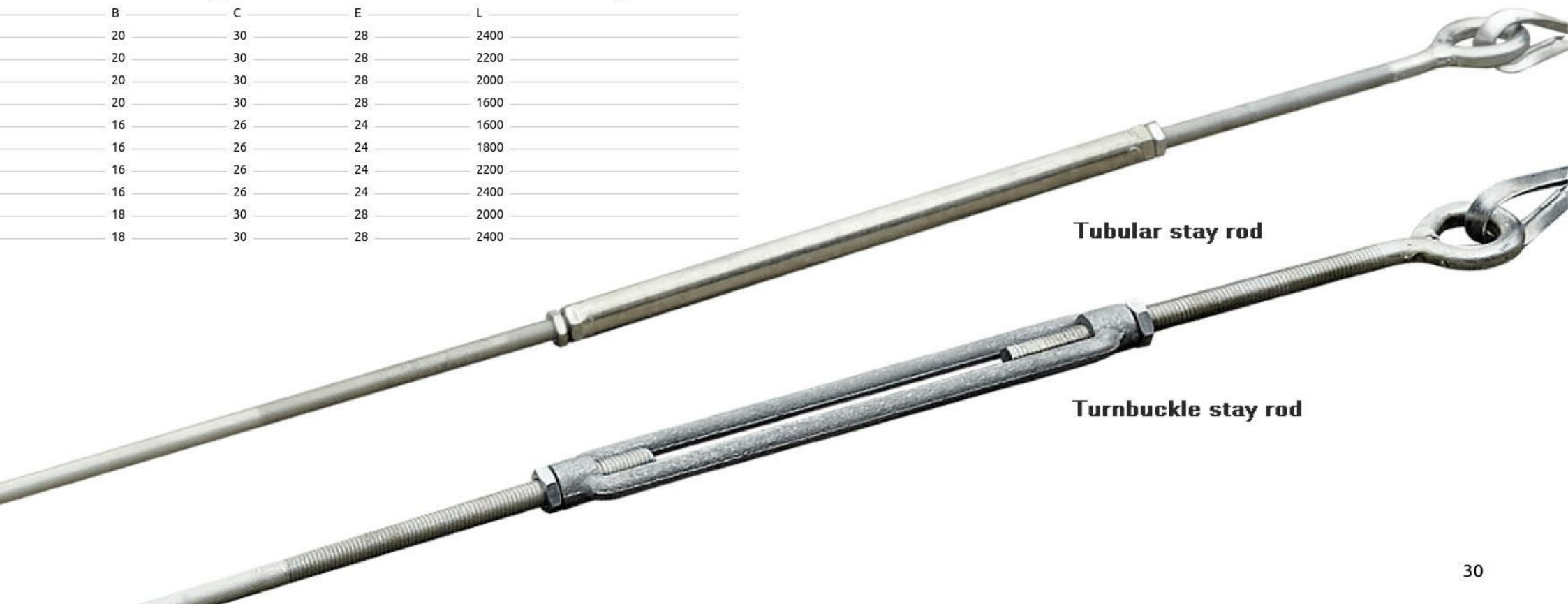
Material
Mild Steel

7

Process Mode
Hot dip /
Cold galvanized



B	C	E	L
20	30	28	2400
20	30	28	2200
20	30	28	2000
20	30	28	1600
16	26	24	1600
16	26	24	1800
16	26	24	2200
16	26	24	2400
18	30	28	2000
18	30	28	2400



Tubular stay rod

Turnbuckle stay rod

GROUND CLAMP & ROD

Ground Clamp or ground rod are one kind of safety component of electrical system which carries current away from a surging electrical circuit and route it safely into the ground ,they are required by electrical systems all over the world for safety reasons .And the design of a ground rod consists of a long rod made of conductive material such as copper which is driven into the ground .with the rod being fully driven into the ground so that it does not present a tripping hazard.

6

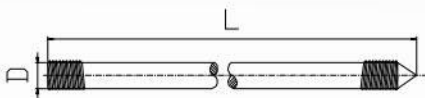
Purpose
**Connection for
electrical bonded equipment**

2

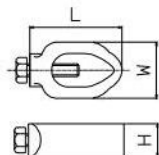
Material
**Mild Steel
with copper coating**

7

Process Mode
Electroplate copper



Main Dimensions(mm)		Weight(kg)	Coating	Models
D	L			
14	1000	1.2	Hot-dip Galvanized	JDX-1410
14	2000	2.4	Hot-dip Galvanized	JDX-1420
16	1000	1.6	Hot-dip Galvanized	JDX-1610
16	2000	3.2	Hot-dip Galvanized	JDX-1620
16	3000	4.7	Hot-dip Galvanized	JDX-1630
14	1000	1.25	Copper Coated	JBT-1410
14	2000	2.5	Copper Coated	JBT-1420
16	1000	1.68	Copper Coated	JBT-1610
16	2000	3.36	Copper Coated	JBT-1620
16	3000	4.95	Copper Coated	JBT-1630



Main Dimensions(mm)			Weight(kg)	Coating	Models
L	W	H			
50	32	25	0.85	Hot-dip Galvanized	GDX-16
50	32	25	0.85	Copper Plated	GDX-16
42	27	25	0.2	Brassing	GDT-16



Ground Clamp

POWER LINE ACCESSORIES

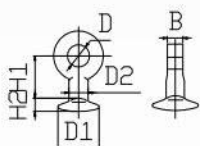
Q SERIES

Ball eyes is a circular device that made of iron material for the connection between insulator chains or power fittings in electrical power facilities ,it also support certain mechanical load .

6 Purpose
Connection for
electrical equipment

2 Material
Mild Steel

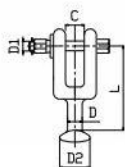
7 Process Mode
Hot dip /
Cold galvanized



Main Dimensions(mm)						Rated Failure Load(kn)	Weight(kg)	Models
D	D1	D2	B	H1	H2			
22	33.3	17	16	50	13.4	70	0.3	Q-7



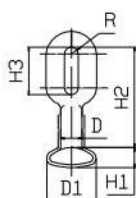
Q-7



Main Dimensions(mm)					Rated Failure Load(kn)	Weight(kg)	Models
C	D1	D2	D	L			
19	16	33.3	16	75	70	0.9	Q-7U



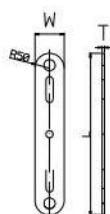
Q-7U



Main Dimensions(mm)						Rated Failure Load(kn)	Weight(kg)	Models
H1	H2	H3	R	D	D1			
13.4	114	57	11	17	33.3	70	0.6	QH-7



QH-7



	1	2	3	4	5	6	7	8	Type
Dimension									
L	569	569	569	569	550	550	550	550	
W	70	70	70	70	100	100	100	100	
T	8	10	15	6	8	10	15	6	



Section Strap

POWER LINE ACCESSORIES

U SERIES & HOOKS

Ball hooks is a circular device that made of iron material for the connection between insulator chains or power fittings in electrical power facilities ,it also support certain mechanical load.

6

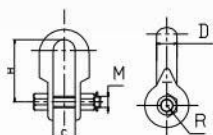
Purpose
**Connection for
electrical equipment**

2

Material
Mild Steel

7

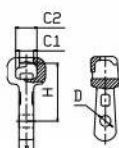
Process Mode
**Hot dip /
Cold galvanized**



Main Dimensions(mm)					Rated Failure Load(kn)	Weight(kg)	Models
C	M	D	H	R			
20	16	16	80	22	70	0.6	U-7



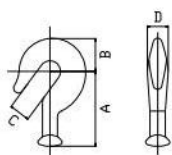
U-7



Main Dimensions(mm)					Rated Failure Load(kn)	Weight(kg)	Models
C1	C2	H	D	B			
19.2	34.5	70	20	16	70	0.8	W-7A



W-7A



Dimension(mm)				Ball size	UTS(kn)	Models
A	B	C	D			
50.8	23.8	20.6	23.8	-	-	BH-04
71.6	26	22	19	-	-	BH-05
82	34	22	20	16	70	BH-01
82.6	23.8	20.6	25.4	-	-	BH-06
90	35	22	22	16	90	BH-02
91	39	22	30	20	140	BH-03



Ball Hook

POWER LINE ACCESSORIES

ANCHOR ROD XLZ SERIES

Anchor rods, also referred as anchor bolts, concrete embeds or foundation bolts, are embedded in concrete foundations to support structural steel columns, light poles, traffic signals, highway sign structures, industrial equipment and many other applications.

6

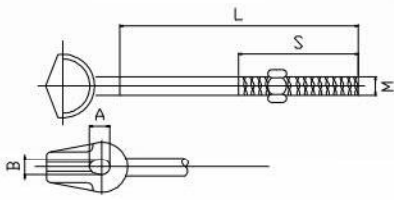
Purpose
**Connection for
electrical equipment**

2

Material
Mild Steel

7

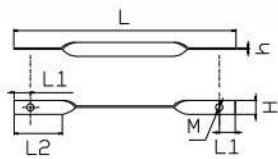
Process Mode
**Hot dip /
Cold galvanized**



Main Dimensions(mm)					U.T.S(kn)	Weight(kg)	Item
M	L	S	A	B			
16	203	102	17.5	14.3	56	0.35	XLZ-01B
20	254	102	20.6	17.5	60	0.9	XLZ-04B



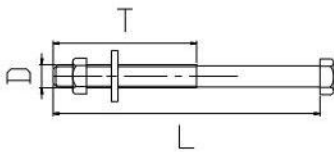
Anchor rod



L	L1	L2	H	h	M	Size
590	25	101	40	10	22	590x40x10mm
590	25	101	50	10	22	590x50x10mm



Tie Strap



Dimension(mm)			Bolt Size
THREADING DIA'D'	THREAD LENGTH'T'	TOTAL LENGTH'L'	
16	FULL	45	M16X45
16	150	250	M16X250
16	150	300	M16X300
16	150	350	M16X350
20	FULL	45	M20X45
20	150	320	M20X320



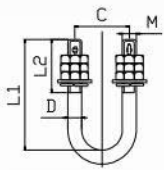
Machine Bolt

POWER LINE ACCESSORIES

EYE BOLT & U TYPE

Eye bolts is a kind of power fittings for fixed action in electrical pole or tower, they are often welded closed. Eye bolts are provided either plain finish or hot-dip galvanized. Stainless steel eye bolts are also manufactured. All operations, including the galvanizing process and welding, are performed in-house.

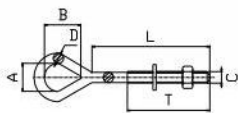
6	Purpose Connection & fixing for electrical equipment	2	Material Mild Steel	7	Process Mode Hot dip / Cold galvanized
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Main Dimensions(mm)					Rated Load(kn)			Weight(kg)	items
C	M	D	L1	L2	X	Y	Z		
80	16	16	122	80	-	-	-	0.6	U1680
80	18	18	90	60	18	3.5	35	0.8	U1880



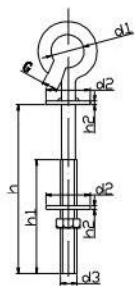
U Bolt



Main Dimensions(mm)						Bolt Size
A	B	C	D	L	T	
38	50	20	17	250	150	M20 × 250MM
38	50	20	17	320	150	M20 × 320MM
38	50	16	14	200	100	M16 × 200MM
38	50	16	14	250	150	M16 × 250MM



Eye Bolt



d1	d2	d3	G	h	h1	h2	Size
38	32	16	18±2	250	150	2	16x250
38	32	16	18±2	200	110	2	16x200
38	32	16	18±2	165	75	2	16x165



Hook bolt through pole

POWER LINE ACCESSORIES

D BRACKET

D bracket is made of iron material to fix insulator appliance, they can be divided into D bracket and D bracket Thailand types ,and they are performed by hot dip galvanizing processall operations.

6	Purpose Fixing for electrical equipment	2	Material Mild Steel	7	Process Mode Hot dip / Cold galvanized
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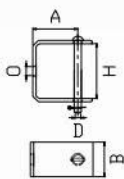


FIG 1

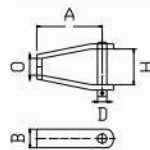


FIG 2

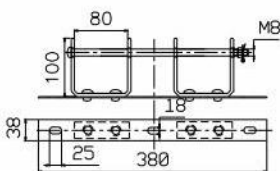


FIG 3.01

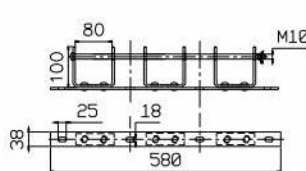


FIG 3.02

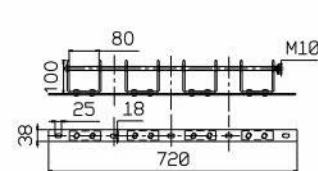


FIG 3.03

FIG NO.	Main Dimensions(mm)						U.T.S(kn)	Weight(kg)	Models
	A	B	D	H	T	Φ			
1	115	40	16	79	6	17.5	18	0.9	DB-33
1	95	45	20	92	8	21.5	22	1.4	DB-34
1	108	45	20	105	8	21.5	20	1.6	DB-35
2	128	40	16	86	6	17.5	-	0.75	DB-11
2	106	40	12	60	6	14	-	0.6	DB-12
2	106	40	16	60	6	17.5	-	0.62	DB-13
3	100	38	8	380	3	25	-	-	DBT-01
3	100	38	10	580	3	25	-	-	DBT-02
3	100	38	10	720	3	25	-	-	DBT-03



A Iron Bracket



D Iron Bracket



D Iron Bracket
Thailand

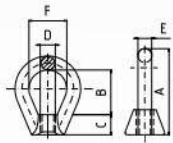


POWER LINE ACCESSORIES

GUY CLIP, POLE TOP PIN & OVAL EYE NUT

Oval eye nut and guy clip is drop forged steel material and are used for dead ending with Suspension or Strain Insulator, and pole top pin is used for cross arm to support the wires or insulators.

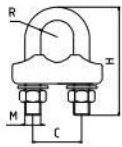
6	Purpose Fixing for electrical equipment	2	Material Mild Steel	7	Process Mode Hot dip / Cold galvanized
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Dimension(mm)						Weight(kg)	Models
A	B	C	D	E	F		
67	44	19	16	13	29	0.25	4015
76	44	19	20	13	38	0.28	4017



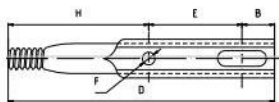
Oval eye nut



Outer Dia.	M	R	C	H	Weight(kg)	Models
6.6-7.8	10	5	22	54	0.2	JK-1
9.0-11.0	10	6	28	72	0.3	JK-2
11.0-13.0	12	7	32	72	0.4	JK-1612



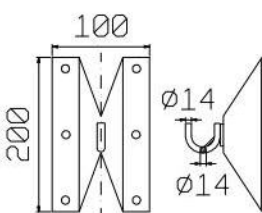
Guy Clip



Steel Head A(inch)	B	F	H	D	E	Weight(kg)	Models
1	127	17.5	254	406	-	1.52	GJQ-1266
1	76	17.5	229	456	76	1.85	GJQ-1368
1	127	21	279	508	76	2.7	GJQ-740
1 3/8	127	21	279	508	-	2.9	GJQ-720



Pole top pin



Wall Hook Plate

TENSION & DEAD END STRAIN CLAMP

NLD & NLL SERIES

Strain clamp is mainly used in standing electrical power line or substation, stationary conduction line and lighting conductor ,and also be used in jointing the strain insulator by join hardware or jointing the lightning conductor with the perch.

6

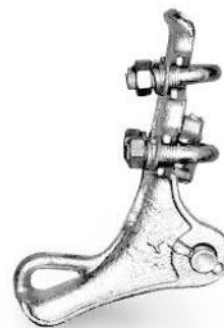
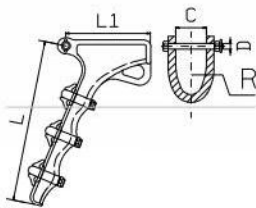
Purpose
Connection & fixing for electrical equipment

2

Material
**Mild Steel
Al alloy**

7

Process Mode
**Hot dip /
Cold galvanized**

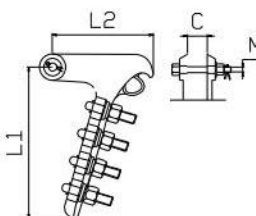


NLD-1



NLD-2

Conductor Dia	Dimensions(mm)					U Bolt		Rated Failure Load (kn)	Weight(kg)	Models
	D	C	L	L1	R	Amount	Dia(mm)			
5.0-10.0	16	18	150	120	6.5	2	12	20	1.3	NLD-1
10.1-14.0	16	18	205	130	8	3	12	40	2.1	NLD-2
14.1-18.0	18	22	310	160	11	4	16	70	4.6	NLD-3
18.1-23.0	18	25	410	220	12.5	5	16	100	7.1	NLD-4



NLL-2



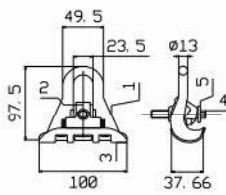
NLL-3

Conductor Dia	Dimensions(mm)					Failure Load Not Less Than(kn)	Weight(kg)	Models
	L1	L2	C	M				
5.1-11.5	140	120	19	16	40	1		NLL-1
8.9-18.5	176	187	24	16	40	1.6		NLL-2
5.0-15.0	210	160	18	16	70	1.9		NLL-3
12.1-21.8	298	284	30	16	90	4.1		NLL-4
18.0-30.0	446	342	36	22	120	7		NLL-5

SUSPENSION & DEAD END CLAMP

Suspension clamp is used for the installation and suspension of cables to poles with standard hook . 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.

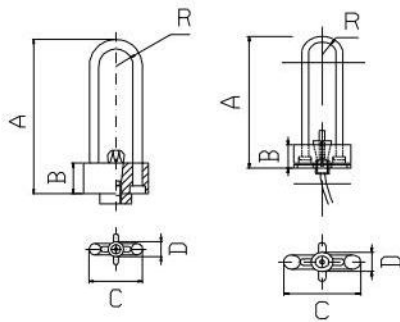
6	Purpose Connection & Fixing for electrical equipment	2	Material Mild Steel &Al Alloy	7	Process Mode Hot dip / Cold galvanized
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Part Description	Material & Finish	Part No.
Clamp Body	Casted Aluminium Alloy,Grade LM6	1
Keeper	Casted Aluminium Alloy,Grade LM6	2
Base Cover Min.1mm Thick	UV Stabilized Thermoplastic	3
Hex.Head Bolt M8X57mm Long-4.6Grade	Mild Steel, Finish-Hot Dip Galvanised	4
Flat Round Washer	Mild Steel, Finish-Eletrio Zimc Galvanised	5



AL Alloy Suspension Clamp



Dimensions(mm)					Conductor Dia
A	B	C	D	R	
125	22	47	22	14.5	16×35MM
175	30	58	30	16	50×70MM



Dead End Clamp

IPC & AL PIERCING CONNECTOR

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

6

Purpose
**Connection & Fixing for
Electrical Conductor**

2

Material
Al & Insulation plastic

Conductor Range(mm ²)		NO.Bolt	Code
Main	Tap		
95-16	25-10	1	IPC3.1
185-120	70-10	1	IPC3.3
185-70	185-70	2	IPC3.4
185-120	25-10	1	TTD281F
50-150	25-95	1	TTD251F
6-35	1.5-10	1	TTD041F
16-70	6-35	1	AB5
35-70	6-35	1	JBC-1
50-240	50-240	2	JBC50-240
90-240	50-150	2	JJC10-240/150
95-240	50-150	2	JJCD10-240/50
16-95	4-35(50)	1	KN2-95
50-150	6-35(50)	1	KN2-150
16-120	16-120	1	KN3-120
(35)50-150	(35)50-150	1	KN4-150



KN2-95



KN2-150



KN3-120



KN4-150



JBC-1



JBC50-240



TTD-281F



IPC 3.1



IPC 3.3



IPC 3.4



ABS Piercing Connector



JJC10-240-150



JJCD10-240-150



TTD-251



TTD-041-FVO

PARALLEL-GROOVE CLAMP

Parallel-groove Clamp combined channel connector is applicable to weight-disburdening connection of overhead aluminium wire and splicing steel wire,also is applicable to the transitional connection of copper applicable to branching connection of different-section copper wire .

6

Purpose
**Connection & Fixing for
Electrical Conductor**

2

Material
Al & Mild Steel

Specis	Sort	Items
CU 6-50 ² Al 16-70/12 ²	Single Bolt	CAPG-A1
CU 10-95 ² Al 25-150 ²	Single Bolt	CAPG-A2
CU 6-50 ² Al 16-70 ²	Double Bolt	CAPG-B1
CU 10-95 ² Al 25-150 ²	Double Bolt	CAPG-B2
CU 16-120 ² Al 16-120 ²	Double Bolt	CAPG-C1
CU 50-240 ² Al 50-240 ²	Double Bolt	CAPG-C2
CU 35-240 ² Al 35-300 ²	Tri-Bolt	CAPG-D

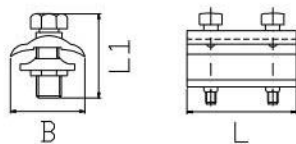


CAPG

Specis	Sort	Items
Al 16-70 ²	Single Bolt	APG-A
Al 16-35 ²	Double Bolt	APG-B1
Al 16-70 ²	Double Bolt	APG-B2
Al 16-150 ²	Double Bolt	APG-B3
Al 30-300 ²	Tri-Bolt	APG-B4



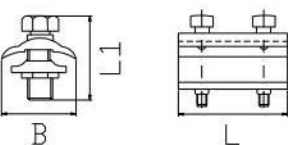
APG



Wire Core Section	Dimensions(mm)			Items
	L	L1	B	
16-120	46	55	47	JBL-16-120
50-240	46	70	60	JBL-50-240



JBL



Wire Core Section	Dimensions(mm)			Items
	L	L1	B	
10-95	40	40	38	JBTL-10-95
16-120	45	55	48	JBTL-16-120
50-240	45	60	62	JBTL-50-240



JBTL

ACCESSORIES



Terminal strap



Hook screw



Pig tail nail



Spindle



NUT adjustable type clamp



Vertical bracket for post insulator



Horizontal bracket for post insulator



U-nail



ZH type shackle ZH-7



suspension clamp CS10



DTL copper aluminum connecting terminals



DL aluminum connecting terminals



Fixing wall nail



PAG4-(50-120)



JBG-1



Ball hook



U7 for UK



Ball clevis Type Y



4 Cores clamp



XGU suspension clamp



suspension clamp for supporting bundle



suspension clamp PS1500



Suspension clamp



NXL-95



Insulated clamp 2.1