

# A

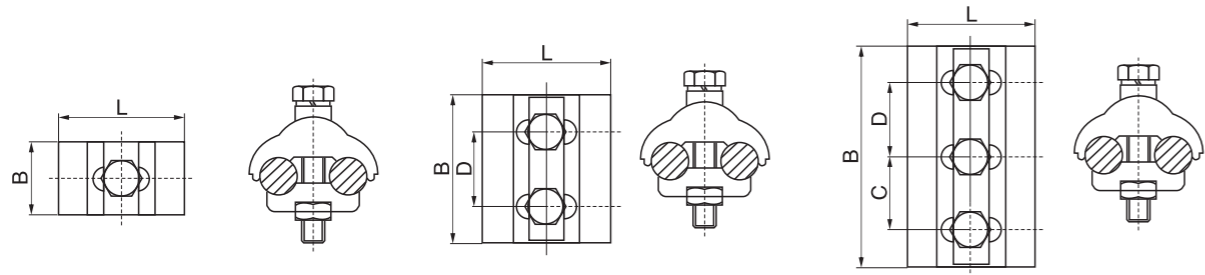
## AERIAL ELECTRICAL FITTINGS



ANCHORING BRACKET	ANCHORING CLAMP	FUSE SWITCH DISCONNECTOR	SUSPENSION CLAMP	PRE-INSULATED SLEEVE	PRE-INSULATED BIMETAL LUG	FIXING NAIL	ANCHORING CLAMP	FIXING STEEL BELT	INSULATED PIERCING CONNECTOR	INSULATED PIERCING CONNECTOR (LIGHTING)	INSULATED PIERCING CONNECTOR (TRANSFORMATION)



**Aluminium Copper and Bimetallic type**



**Technical Data**

Modle	Conductor Cross-section(mm <sup>2</sup> )	Bolts
CAPG-A1	Cu 6-50 Al 16-70	1×M8×40
CAPG-A2	Cu 10-95 Al 25-150	1×M8×45
CAPG-B1	Cu 6-50 Al 16-70	2×M8×45
CAPG-B2	Cu 10-95 Al 25-150	2×M8×50
CAPG-B3	Cu 25-185 Al 35-200	2×M10×60
CAPG-C1	Cu 6-50 Al 16-70	3×M8×45
CAPG-C2	Cu 10-95 Al 25-150	3×M8×50
CAPG-C3	Cu 25-185 Al 35-240	3×M10×60
CAPG-C4	Cu 35-240 Al 35-300	3×M10×70

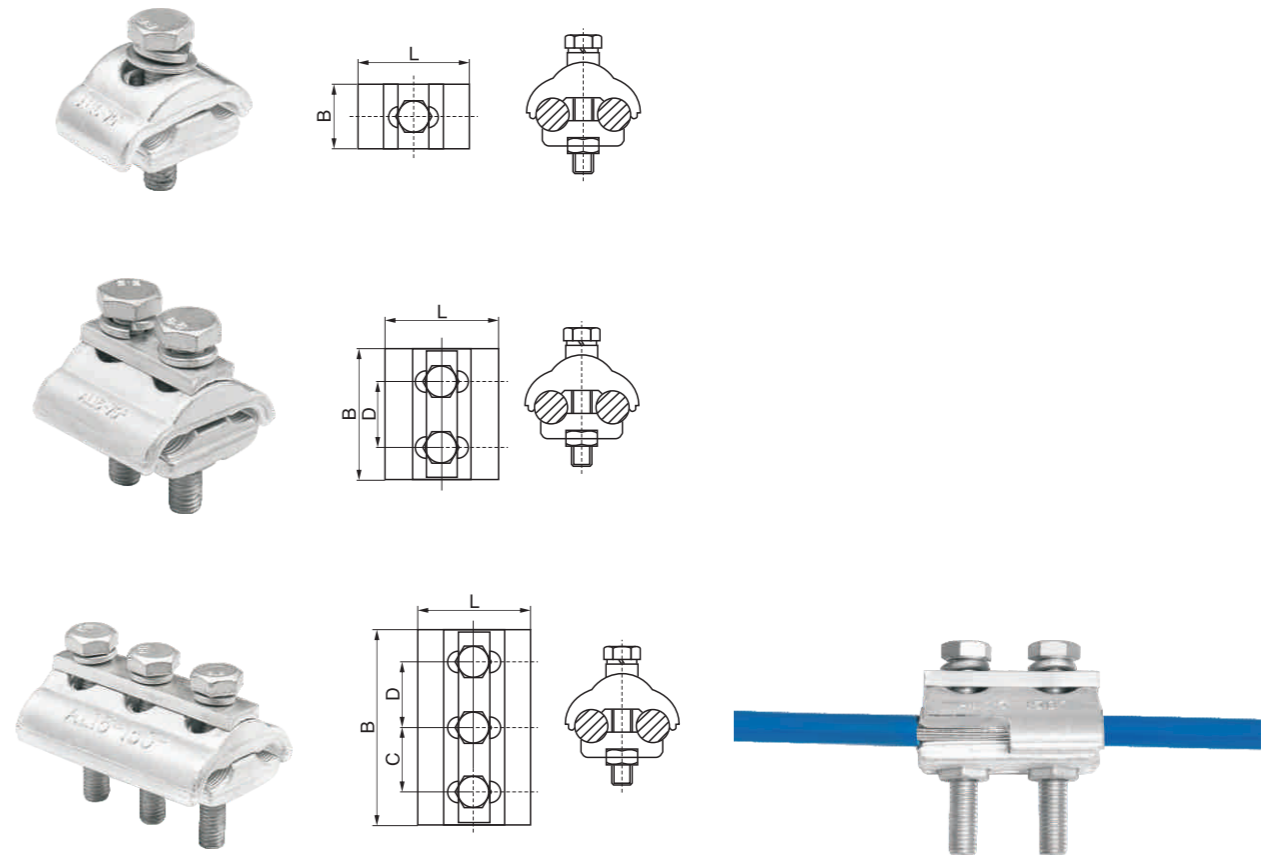
**Parallel groove connectors AL/AL**

**Material**

High strength aluminum alloy by forging. Surface treatment: Bright.

**Product property**

ALPG is used for connecting or branching AAC, AAAC or ACSR overhead conductors. Forging creates a high strength clamp. Slotted holes allow adjustment for varying conductors on each side. Its type test is in accordance with IEC61238-1.



**Technical Data**

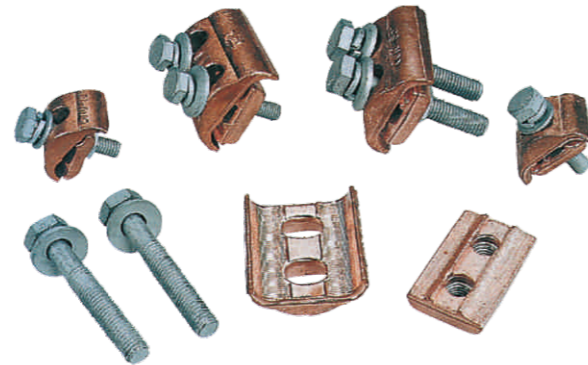
Modle	Conductor Cross-section(mm <sup>2</sup> )	Bolts
APG-A1	Al 16-70	1×M8×40
APG-A2	Al 16-150	1×M8×45
APG-B1	Al 16-35	2×M6×35
APG-B2	Al 16-70	2×M8×45
APG-B3	Al 16-150	2×M8×50
APG-B4	Al 25-185	2×M10×60
APG-C1	Al 16-70	3×M8×45
APG-C2	Al 16-150	3×M8×50
APG-C3	Al 25-240	3×M10×60
APG-C4	Al 35-300	3×M10×70

### Parallel groove connectors CU/CU

#### Parallel Groove Clamps Copper Extruded type

The clamp was designed to connect two parallel bare conductors. Conductors can be copper stranded or rods. Material is forged copper for copper to copper connection throughout the conductor range. The clamps have serrated transverse grooves for maximum conductor contact, use copper bolts and utilise Belleville washers to prevent thermal ratcheting under cyclic loads.

The clamps are coated with an oxide inhibitor. And stainless bolts and nuts with washers was on requirement.



For tap-off connections of copper-conductors acc. to DIN 48201

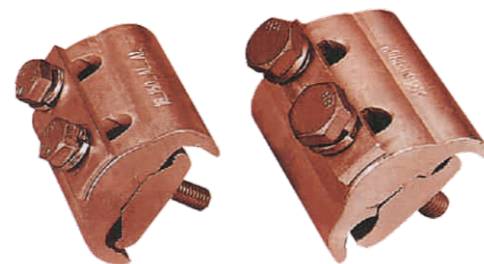
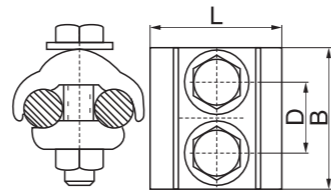
#### Material

Body: Copper alloy

Bolts: steel or stainless steel

Nuts: DIN 934, steel

Surface: uncoated



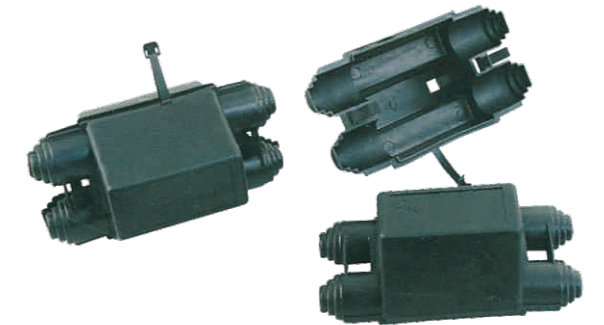
Modle	Bolt Torque	Conductor Range mm <sup>2</sup>	Dimensions mm O.D	No./Size of Bolts
CU6-70-2	20Nm	6 to 70	2.7 to 10.5	2×M8
CU16-95-2	20Nm	16 to 95	5.1 to 12.5	2×M8
CU16-150-2	30Nm	16 to 150	5.1 to 15.7	2×M10
CU150-240-2	40Nm	150 to 240	15.7 to 20.3	2×M12
CU300-400-3	40Nm	300 to 400	22.6 to 26.7	3×M12

### Insulating covers

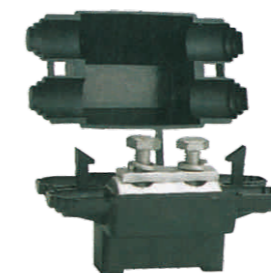
SM1 and SM2, SM3 are used as a connector covers.

The covers are used with Al/Al and Al/Cu connectors as insulation and protection against corrosion caused by various climatic conditions. The cover has to be installed so that the drain hole for ambient water is downwards.

The cover is made of UV-radiation and weather resistant thermoplastic. The insulating covers was suitable for type, it have two size, the small insulating cover was use for conductor size till 120mm<sup>2</sup>, and the big cover was use for conductor size till 240mm<sup>2</sup>. The SI3 type covers has to be installed with the holes in the clamp body, we have two size for 120mm<sup>2</sup>(max) and for 240mm<sup>2</sup>(max).



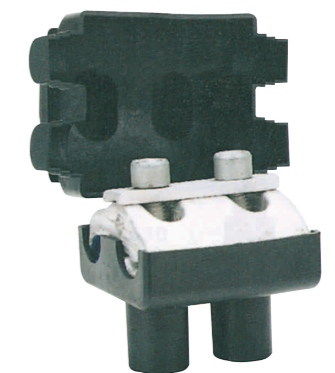
Modle	Conductor size mm <sup>2</sup> (Max)	Suitable for clamp
SM1-1	16-150	CAPG,APG,ALPG,CUPG,PGS,PGT,SM,JBL,JBTL,JBT
SM1-2	35-240	CAPG,APG,ALPG,CUPG,PGS,PGT,SM,JBL,JBTL,JBT
SM2-1	16-120	CAPG,APG,ALPG,CUPG,PGS,PGT,SM,JBL,JBTL,JBT
SM2-2	35-240	CAPG,APG,ALPG,CUPG,PGS,PGT,SM,JBL,JBTL,JBT
SM3-1	16-150	CAPG,APG,CUPG
SM3-2	35-200	CAPG,APG,CUPG



SM1



SM2



SM3

### Dead end clamp



JBH

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 a unit without loose parts.

Modle	Cross-section (mm <sup>2</sup> )	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

### Bolted type strain clamp



NLL

Material: High strength aluminium alloy by casting  
 Product property: NLL is suitable for aerial line up to 35kV, fixing stranded aluminum wire, steel-cored aluminum strand on the strain pole, or aerial insulated aluminum conductor. Smooth surface makes a long service life. Easy installation. No waste of electric energy.

Modle	Conductor Diameter (mm)	Specification		U-bolted	Failure Load (kN)
		1kV (mm <sup>2</sup> )	10kV (mm <sup>2</sup> )		
NLL-0	5.0-10.0	---	---	2×M12	40
NLL-1	5.0-10.0	25-70	10-25	2×M12	40
NLL-2	10.1-14.0	50-120	25-50	2×M12	40
NLL-3	14.1-18.0	120-240	70-120	3×M14	70
NLL-4	18.1-23.0	185-300	150-240	3×M14	90

### FTY Preformed armour



Chamfered End



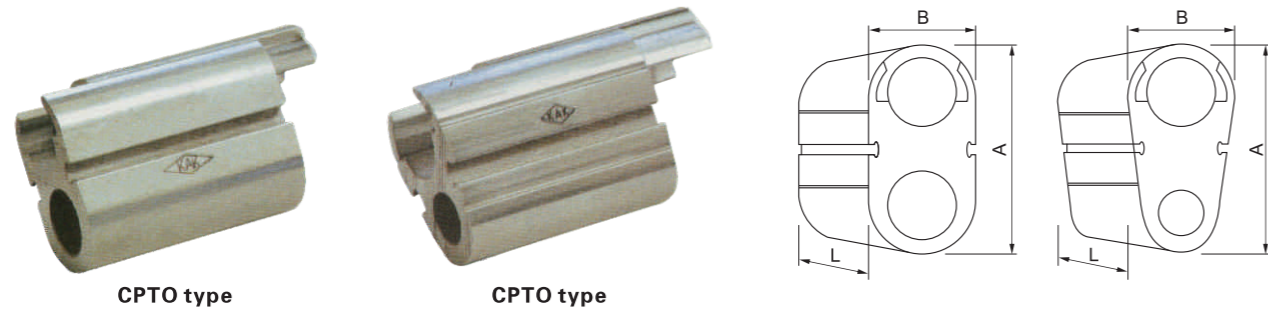
Ball End



EHV End

Modle	Conductor		Dimensions(mm)			Nos of wires	Weight(kg)
	Type	Outer dia(mm)	d	D	L		
FTY-95/15	LGJ-95/15	13.61	3.6	11.4	1400	13	0.53
FTY-95/20	LGJ-95/20	13.87	3.6	11.4	1400	13	0.54
FTY-120/20	LGJ-120/20	15.07	3.6	12.5	1400	14	0.57
FTY-120/25	LGJ-120/25	15.74	3.6	13.0	1400	14	0.58
FTY-150/20	LGJ-150/20	16.67	3.6	14.7	1500	16	0.65
FTY-150/25	LGJ-150/25	17.10	3.6	14.2	1500	16	0.64
FTY-150/35	LGJ-150/35	17.50	3.6	14.5	1500	16	0.66
FTY-185/25	LGJ-185/25	18.90	4.6	15.7	1800	14	1.25
FTY-185/30	LGJ-185/30	18.88	4.6	15.7	1800	14	1.26
FTY-185/45	LGJ-185/45	19.60	4.6	16.3	1800	14	1.26
FTY-240/30	LGJ-240/30	21.60	4.6	17.9	1900	16	1.44
FTY-240/40	LGJ-240/40	21.66	4.6	17.9	1900	16	1.44
FTY-240/55	LGJ-240/55	22.40	4.6	18.6	1900	16	1.50
FTY-300/20	LGJ-300/20	23.43	6.3	19.4	2000	13	2.30
FTY-300/25	LGJ-300/25	23.76	6.3	19.7	2000	13	2.33
FTY-300/40	LGJ-300/40	23.94	6.3	19.9	2000	13	2.34
FTY-300/50	LGJ-300/50	24.26	6.3	20.1	2000	13	2.34
FTY-400/25	LGJ-400/25	26.64	6.3	22.1	2200	14	2.80
FTY-400/35	LGJ-400/35	26.82	6.3	22.3	2200	14	2.80
FTY-400/50	LGJ-400/50	27.63	6.3	23.0	2200	14	2.80
FTY-400/65	LGJ-400/65	28.00	6.3	23.2	2200	14	2.83
FTY-500/35	LGJ-500/35	30.00	6.3	24.9	2500	16	3.48
FTY-500/45	LGJ-500/45	30.00	6.3	24.9	2500	16	3.48
FTY-500/65	LGJ-500/65	30.96	6.3	25.7	2500	16	3.50
FTY-630/45	LGJ-630/45	33.60	7.8	27.9	2500	15	5.32
FTY-630/55	LGJ-630/55	34.32	7.8	28.5	2500	15	5.40
FTY-630/80	LGJ-630/80	34.32	7.8	28.9	2500	15	5.40

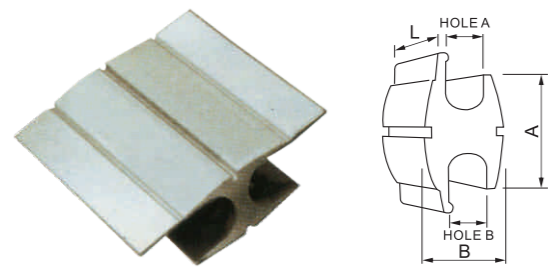
#### Connector press type O



#### Specification for CPTO type

Modle	Hole1 mm <sup>2</sup>	Hole2 mm <sup>2</sup>	Dimensions(mm)		
			A	B	L
CPTO 10-16/10-16	10-16	10-16	18.8	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

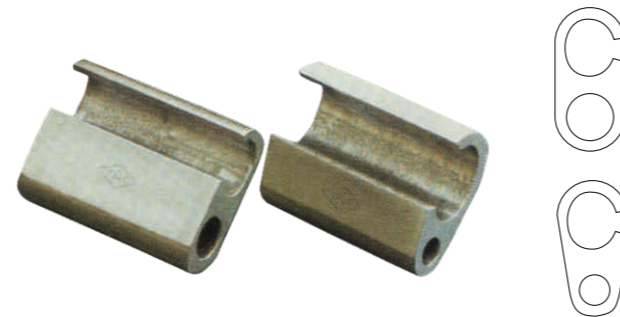


CPTH type

#### Specification for CPTH type

Modle	Hole1 mm <sup>2</sup>	Hole2 mm <sup>2</sup>	Dimensions(mm)		
			A	B	L
CPTH 35-35	16-35	16-35	17.5	23.8	38
CPTH 35-70	16-35	35-70	17.8	26	46
CPTH 70-70	35-70	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

#### Connector press CPTG type



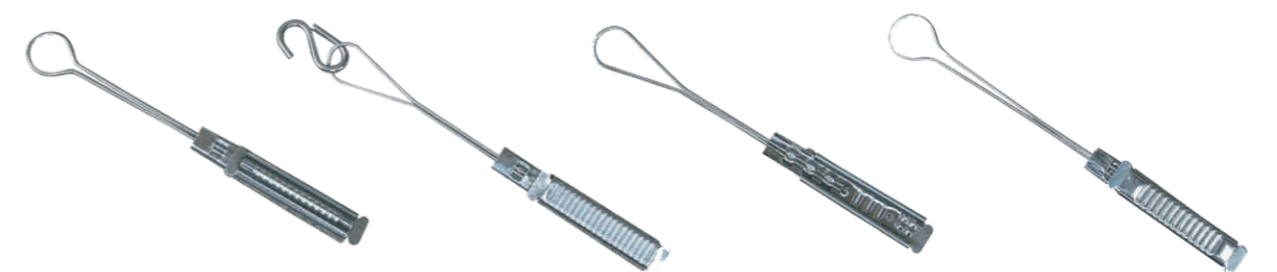
#### Specification for CPTG type

Modle	Hole1 mm <sup>2</sup>	Hole2 mm <sup>2</sup>	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
CPTG 50-70/10-16	70-120	70-120	22.7	36.5	52
CPTG 50-70/16-35	35-150	70-150	23	34.5	70
CPTG 50-70/50-70	70-150	70-150	25.4	39.5	70
CPTG 70-150/50-70	35-70	120-240	28	42	90
CPTG 70-150/70-150	70-150	120-240	32	46	90
CPTG 150-240/70-150	120-240	120-240	32	52	90
CPTG 150-240/150-240	150-300	150-300	32	52	100

#### Anchor Clamp Class



SM-001 SM-002 SM-003 SM-004



SM-005 SM-006 SM-007 SM-008



SM-009 SM-010 SM-011 SM-012



SM-013 SM-014 SM-015 SM-016