

IPCs, PG clamps and other clamps for overhead lines

For aluminium and copper conductors



Insulation piercing connectors



Bimetallic parallel groove clamps



Bimetallic cover tap-off clamp



Parallel groove clamps



Bimetallic bow clamp

Hiko stocks a wide range of overhead line fittings. This data sheet lists commonly stocked items; other types are available on request.

Insulation Piercing Connectors (IPCs) are used to make tap off connections on low voltage insulated conductors. Hiko IPCs include shear bolts to ensure the correct tightening torque is applied during installation.

Parallel Groove (PG) Clamps are used to connect aluminium and ACSR conductors. **Bimetallic PG Clamps** connect aluminium or ACSR main conductors with copper tap-off conductors.

Hiko PG clamps and bimetallic PG clamps are manufactured from high strength corrosion resistant aluminium alloy (AlMgSi1/Al6082) and use hot-dip galvanised steel bolts and nuts and corrosion protected washers.

Bimetallic Cover Tap-Off Clamps connect aluminium or ACSR main conductors with copper tap-off conductors. Hiko cover tap-off clamps are manufactured from high strength corrosion resistant aluminium alloy, hot-forged metallic sheet and high strength copper alloy (CuNi2Si) and use hot-dip galvanised steel bolts and corrosion protected washers.

Bimetallic Bow Clamps connect aluminium or ACSR conductors with copper conductors. The body is made of high strength aluminium alloy with bimetallic sheet for copper tap-off; the U-bolt and nuts are hot-dip galvanised with corrosion protected washers.

Product selection table: application ranges

Hiko code	Description	Main conductor								
		AL	CU	ACSR	Cross section, (mm ²)		Diameter (mm)		ACSR size	
					Min	Max	Min	Max	Min	Max
BIZ1695	Insulation piercing connector	✓	✓		16	95				
KP2190					25					
KP2197					50					
BIZ2595					25					
BIZ50150					(35)50					
KP1928	Bimetallic parallel groove clamp (two bolts)	✓		✓	16	70	5.1	11.7	16/2.5	70/12
KP1930					25	150	7.5	14	35/6	95/15
KP1927					35	120	6.3	15.7	25/4	120/20
KP1926	Bimetallic parallel groove clamp (single bolt)	✓			35	120				
KP1935	Bimetallic cover tap-off clamp	✓		✓	25	70			25/4	70/12
KP1937					50	150			50/8	120/20
KP2111	Bimetallic bow clamp	✓		✓	95	240	12.5	21.9	95/15	240/40
KP1950	Parallel groove clamp	✓		✓	16	70	5.1	11.7	16/2.5	70/12
KP1942					25	150	6.3	15.7	25/4	120/20
KP1960					50	150	9	16	50/8	120/20

Hiko code	Description	Branch conductor					
		AL	CU	Cross section, (mm ²)		Diameter (mm)	
				Min	Max	Min	Max
BIZ1695	Insulation piercing connector	✓	✓	4	35(50)		
KP2190				6	50		
KP2197				50	95		
BIZ2595				25	95		
BIZ50150				(35)50	150		
KP1928	Bimetallic parallel groove clamp (two bolts)		✓	6	50	2.7	9
KP1930				10		3.5	9
KP1927				10		3.5	12.5
KP1926	Bimetallic parallel groove clamp (single bolt)		✓	10	50		
KP1935	Bimetallic cover tap-off clamp		✓	10	70		
KP1937				25	120		
KP2111	Bimetallic bow clamp	✓	✓ ¹	95	240		
KP1950	Parallel groove clamp	✓		70	185		
KP1942				16	70		
KP1960				25	150		
KP1960				50	150		

Product selection table: dimensions, other characteristics

Hiko code	Description	Number of bolts	Bolt size	Tightening torque Nm	End caps	Weight (g)	Box Quantity
BIZ1695	Insulation piercing connector	1	M8	shear	1	148	5
KP2190						tbc	50
KP2197						tbc	25
BIZ2595					0	172	10
BIZ50150						205	10
KP1928	Bimetallic parallel groove clamp	2	M8	23		107	50
KP1930						134	50
KP1927		1				155	20
KP1926						80	50
KP1935	Bimetallic cover tap-off clamp	2	M8	20		122	50
KP1937						178	30
KP2111	Bimetallic bow clamp	1x U-bolt	M12	80		490	18
KP1950	Parallel groove clamp	2	M8	23		91	50
KP1942			M10	46		212	50
KP1960			tbc	30			

Notes

1. With insert (included)

Other literature available on request

Test reports, drawings, installation instructions