

# Insulators



## Station Post Insulators

Station Post Insulators are manufactured from non-porous electrical porcelain and tested as per Australian and IEC standards.



## Disc Insulators

Disc insulators supplied by PLP will have a sacrificial "Zn" collar as standard on all pins and a parallel head design with galvanized end fittings. Sacrificial "Zn" collars on all disc insulators are of 99.9% purity to serve corrosion prone area. Insulators having alternative electro-mechanical ratings, spacing, and leakage distances to suit environmental conditions can be supplied. Strict quality control is imposed to ensure long life and reliable performance. Insulators are batch tested to Australian Standards at PLP's test laboratory located at 190 Power Street, Glendenning, NSW.



## Composite Insulators

Manufactured and tested as per Australian Standards, these insulators are branded PLP. Polymer insulators are supplied with various metal fitting orientations based on the customer requirements. Insulators up to 35kV are stocked with a clevis-tongue orientation and a hex-pin standard on all insulators with capability to cater to higher voltage ranges. To ensure the highest integrity product, polymer insulator raw materials are sourced from world class suppliers. The main ingredient of a polymer insulator is silicon, it has both organic and inorganic characteristics. Therefore, silicon shows extremely excellent features of thermal resistance, chemical stability, electricity insulation, anti-abrasion and high luster compared to normal organic rubber materials.



## LV/MV: Distribution Insulators

A wide range of LV/MV porcelain distribution insulators from LV to 33kV in Guy, Shackle and Pin configurations are available. Manufactured and tested as per Australian Standards, insulators are batch tested at PLP's Glendenning test laboratory.

# Insulators

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## Disc Insulators

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### Porcelain

**Features:**

- Manufactured and supplied by Aditya Birla Insulators, India
- ABI- Third largest manufacturer of Insulators in the world
- World class quality Standards
- State-of-the-art manufacturing and In-House test facilities
- Manufactured from non-porous electrical porcelain
- Sacrificial "Zn" collar standard on all pins
- Insulators tested at CPRI, a NABL accredited testing facility (NATA equivalent)
- Batch tested to Australian Standards

Part Number	Fixing	Security Clip	Spacing (mm)	Creepage Distance	Electro Mechanical Strength (kN)
I-U70B-PWZ	Ball & Socket	W	146	320	70
I-U70C-PZ	Tounge & Clevis		146	320	70
I-U160BS-PRZ	Ball & Socket	R	146	320	160

**Note:**

- Dimensional and performance characteristics in accordance with IEC and Australian standards
- Higher rated units can be supplied upon request



## Disc Insulators

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### Glass

Part Number	Fixing	Security Clip	Spacing (mm)	Creepage Distance	Electro Mechanical Strength (kN)
I-U70B-GWZ*	Ball & Socket	R	146	320	70
I-U120B-GWZ*	Ball & Socket	R	146	320	120

\* Non stocked item

# Insulators



## Station Post Insulators

### Porcelain

#### Features:

- Manufactured and supplied by Aditya Birla Insulators, India
- ABI- Third largest manufacturer of Insulators in the world
- World class quality Standards
- State-of-the-art manufacturing and In-House test facilities
- Capability up to 800kV
- Insulators tested at CPRI, a NABL accredited testing facility (NATA equivalent)
- Batch tested to Australian Standards
- Stocked at PLP Australia

Part Number	Rated Volt. (kV)	BIL (kV)	Cantilever Strength (kN)	Polution Level	Crepage (mm)	Height
I-C6-650-4495C-1500H 127/127	132	750	6	4	4495	1500
I-C10-650-3625C-1500H 127/127	132	750	10	3	3625	1500
I-C12.5-650-3625C-1500H 127/254	132	650	12.5	3	3650	1500
I-C6-650-3730C-1473H 127/127	132	650	6	3	3733	1473
I-C8-350-II-76HT	66	350	8	2	1690	762
I-C10-325-1815C-770H 127/127	66	325	10	3	1820	770
I-C6-200-I-508HT	33	200	6	1	840	508
I-C4-200-1000C-400H 76/76	33	200	4	3	1000	400
I-C4-200-200-I-458HT	33	200	4	1	850	458
I-C10-200-II-458HT	33	200	10	2	950	458
I-C10-200-900C-475H 76/76	33	200	10	3	950	475
I-C8-225-810C-381H	36	170	3	3	810	381
I-C6-150-I-355HT	22	150	6	1	610	355
I-C4-150-500C-300H 76/76	22	150	4	3	500	300
I-C9-125-400C-254HT TR-205	11	110	10	3	400	255
I-C6-1050-7595C-2300H	220	1050	6	4	7595	2300

#### Notes:

- Dimensional and performance characteristics in accordance with IEC and Australian standards (AS 4395.1)
- Details of Station Posts not mentioned above can be provided upon request

# Insulators



## Polymeric Insulators

### Long Rod & Line Post Type

#### Features:

- Wide product range
- Substation, Traction, Line Post and Transmission Insulators
- Insulators manufactured and tested per IEC and Australian Standards
- Tested at NATA equivalent testing facilities

Part Number	Rated Voltage (kV)	Min Creepage Distance (mm)	SML (kV)	Critical Impulse Voltage (kV)	Length (mm)	End Fittings
I-CS70-15-CT-H	15	425	70	155	330+-15	Clevis-Tounge
I-CS70-25-CT-H	25	645	70	220	430+-20	Clevis-Tounge
I-CS70-35-CT-H	35	859	70	275	525+-25	Clevis-Tounge
I-CS70-36-BS	36	1180	70	275	610+-10	Ball-Socket
I-CS70-36-CT-H	36	1180	70	275	635+-10	Clevis-Tounge
I-CS120-36-BS	36	1180	120	275	640+-10	Ball-Socket
I-CS120-36-CT-H	36	1180	120	275	655+-10	Clevis-Tounge
I-CS70-36-BS	36	1180	70	410	640	Ball-Socket
I-CS70-36-CT-H	36	1180	70	410	640	Clevis-Tounge
I-CS120-36-BS	36	1180	120	410	640	Ball-Socket
I-CS120-36-CT-H	36	1180	120	410	640	Clevis-Tounge
I-LPO-36-TT-1140C	36	1140	12.5	210	480	Tie-Top
I-CS140-69-SB*	69	1790	140	395	750+-5	Clevis-Tounge
I-CS120-135-SB*	135	3520	120	735	1329	Clevis-Tounge

\* Non stocked item

#### Notes:

- Dimensional and performance characteristics in accordance with IEC and Australian standards
- Other voltages and SMLs available on request



## LV/MV Distribution Insulators

### Shackle & Pin Type

Part No	Dimensions (mm)					Thread	Pin	Min F.L. kN
	A	Dia. B	Dia. C	Dia. D	Rad. E			
I-SHLV1	54	57	39	17	17	-	-	9kN
I-SHLV2	76	80	54	17	12	-	-	20kN
I-SHLV8	32	57	40	17	7	-	-	9kN
I-LVLP	91	82	52	-	11	Patt "B"	B/100/3.5	7kN

#### Notes:

- Dimensional and performance characteristics in accordance with AS2947.2
- Threads in accordance with AS2947.3

# Insulators



## LV/MV Distribution Insulators

### Guy Strain

Part No	Dimensions (mm)											Min F.L. kN
	A	B	C	D	E	F	G	H	I	J	K	
I-GY2	73	41	44	73	44	146	22	51	22	37	37	71 kN
I-GY3	115	57	67	115	57	216	38	51	38	63	63	222 kN
I-GY4	115	57	67	115	57	280	38	51	38	95	95	222 kN

#### Notes:

- Dimensional and performance characteristics in accordance with AS2947.2
- Threads in accordance with AS2947.3



## LV/MV Distribution Insulators

### Standard Line Pin

Part No	Voltage (kV)	Creepage (mm)	Dimensions (mm)					Thread	Pin	Min F.L. kN
			A	B	C	D	E			
I-SLP11-180	11	180	106	140	76	R13	R16	Patt "A"	A/130/7	7 kN
I-SLP22-420	22	420	168	228	113	R13	R16	Patt "C"	C/150/11	11 kN
I-SLP33-534	33	534	194	279	113	R13	R16	Patt "C"	C/200/11	11 kN

#### Notes:

- Dimensional and performance characteristics in accordance with AS2947.2
- Threads in accordance with AS2947.3



## LV/MV Distribution Insulators

### Aerodynamic Line Pin

Part No	Voltage (kV)	Creepage (mm)		Dimensions (mm)						Pin	Min F.L. kN
		X-Y	X-Z	A	B	C	D	E	F		
I-ALP11-275	11	235	275	136	102	76	152	76	136	C/150/7	7 kN
I-ALP22-450	22	365	450	148	102	76	200	74	160	C/200/11	11 kN
I-ALP22-520C	22	380	520	127	102	76	240	89	165	C/200/11	11 kN
I-ALP33-920	33	755	920	240	102	76	320	133	240	C/300/7	11 kN

#### Notes:

- Dimensional and performance characteristics in accordance with AS2947.2
- Threads in accordance with AS2947.3