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## Insulator Brochure

Glass • Porcelain • Composite

The connection you can count on



AUSTRALIA

### Precision Engineering | Quality Products | Unparalleled Service

PLP has been designing and manufacturing high-quality solutions for the energy, communications, and data network industries, as well as specialised niche markets in Australia since 1961.

Our precision-engineered products help build, protect, and maintain critical infrastructure, creating stronger, more reliable networks for customers across Australia and the Asia Pacific region.

Inventiveness, integrity, and foresight are the foundations of PLP. These core values guide our commitment to continuously improve our product offering through innovative engineered design solutions, ensuring the highest quality products, and delivering unparalleled service.



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# PLP Insulator Overview



## PLP Insulator Products

PLP Australia has long-standing supply agreements with Tier-1 manufacturers of glass, porcelain, and composite insulators. These supply partnerships operate formally accredited management systems covering quality, environmental, and occupational health and safety performance.

PLP's insulator partnerships are supported by extensive global project reference sites, demonstrating proven capability across diverse operating environments.

The established performance record of PLP suppliers on major projects in Australia and worldwide provides verifiable assurance of the longevity and reliability of PLP's insulator

solutions, critical to the stable operation of Australia's electricity transmission and distribution networks.

PLP supplies insulators for all voltage levels currently deployed across Australia's transmission and distribution networks and can also support future requirements above 500 kV, including UHVDC networks not yet implemented.

All insulators supplied by PLP are designed and tested in accordance with applicable IEC standards. The relevant AS/NZS Australian standards for insulators used in transmission and distribution networks are generally derived from these IEC standards.

## PLP Supply Partnerships

### Glass Disc Insulators

PLP supplies cap-and-pin type glass disc insulators that are widely used across Australia's transmission and distribution networks. These insulators are manufactured by Nanjing Electric Insulator Co., Ltd.

Nanjing operates a highly automated manufacturing, R&D, testing, and distribution facility, positioning the company as a global leader in both production capacity and technical innovation. The facility has supplied projects worldwide, including 28 ultra-high-voltage (UHV) projects operating at voltages above 800kV.

### Porcelain Insulators

PLP supplies a comprehensive range of porcelain insulators, including solid-core and hollow-core post insulators for substation and overhead line applications, as well as cap-and-pin type disc insulators for overhead lines. These products are manufactured by Sinoma Jiangxi Insulator and Electricity Co., Ltd.

Sinoma has the capacity to produce approximately 25,000 tonnes of solid-core post insulators, 2,000 tonnes of hollow-core posts, and 15,000 tonnes of overhead line insulators annually.

Sinoma was the first Chinese manufacturer to achieve international certification for C130 porcelain production and supplies major projects in Australia and globally, including installations at 1000kVAC and 1100kV UHVDC.

### Composite Insulators

PLP supplies composite insulators constructed with solid fibreglass rod cores, high-temperature vulcanised (HTV) silicone rubber sheds, and forged metal end fittings. These insulators are manufactured by Nanjing Electric Insulator Co., Ltd. at its purpose-built, fully integrated engineering, manufacturing, testing, and distribution facility.

## PLP Testing and Certification



PLP's insulator manufacturing partners operate in-house test laboratories capable of conducting type, routine, and sample testing in accordance with applicable IEC standards.

All manufacturers operate under ISO 9001-certified quality management systems, with test equipment routinely calibrated and independently verified, or laboratories accredited to ISO/IEC 17025.

Where required, string testing for specific overhead line assemblies can be arranged.

For specialised or additional testing beyond factory capabilities, independent third-party laboratories can be engaged to provide testing and reporting.



# Glass Disc Insulators

## Glass Disc Insulators for HV Transmission Systems



PLP supplies premium glass disc insulators engineered for superior mechanical strength, excellent electrical performance, and long-term durability in demanding network conditions.

Manufactured from high-quality toughened glass, each unit delivers stable dielectric characteristics and outstanding resistance to ageing.

A key operational benefit is the self-shattering characteristic in the event of mechanical failure, enabling easy visual identification during routine line inspections.

Forged steel cap and pin fittings are hot-dip galvanised to ensure maximum corrosion resistance and structural integrity.

PLP offers a full range of profiles, including standard, aerodynamic (anti-fog/anti-pollution), and EC (extra creepage) designs to suit various pollution levels and environmental conditions.

Where required, silicone rubber coatings can be applied to glass disc insulators using a Room Temperature Vulcanised (RTV) process. RTV coatings are available in a range of colours.

RTV coatings are typically specified for high pollution and low rainfall environments, where their intrinsic hydrophobic and self-cleaning properties improve long-term performance.

All glass disc insulators supplied by PLP comply with applicable IEC requirements and relevant Australian quality standards.

All units are type tested in accordance with:

- IEC 60383-1 – Ceramic or glass insulator units for overhead lines (>1kV).
- IEC 60120 – Dimensions of ball and socket couplings.
- IEC 60273 – Characteristics of internal metal fittings.

Available in a wide range of mechanical ratings and creepage distances, PLP glass disc insulators are suitable for transmission lines, substations, and high-reliability infrastructure projects.

### Key Features

- High mechanical strength and impact resistance.
- Stable long-term electrical performance.
- Aerodynamic and extra creepage profiles are available.
- Optional RTV coating for severe pollution environments.
- Visible failure indication for easy maintenance
- Manufactured and tested to IEC standards.



Glass disc insulator with a silicone rubber RTV coating that is self-cleaning and improves longevity.

## Glass Disk Insulator Tables

### Standard Profile

PLP Part Number	IEC Reference	Image Number	Mechanical Failing Load (kN)	Nominal Spacing H (mm)
I-GD-070-16SB-320C/127H	-	1	070	127
I-GD-070-16SB-320C/146H	U70BL	1	070	146
I-GD-120-16SB-320C/146H	U120BL	1	120	146
I-GD-160-20SB-400C/170H	U160BL	2	160	170
I-GD-160-20SB-400C/155H	-	2	160	155
I-GD-160-20SB-400C/146H	U160BS	2	160	146
I-GD-210-20SB-400C/170H	U210BS	2	210	170
I-GD-210-20SB-450C/170H	U210BS	3	210	170
I-GD-240-24SB-400C/170H	U240BS	2	240	170
I-GD-240-24SB-450C/170H	U240BS	3	240	170
I-GD-300-24SB-485C/195H	U300B	3	300	195
I-GD-420-28SB-560C/205H	U420B	4	420	205

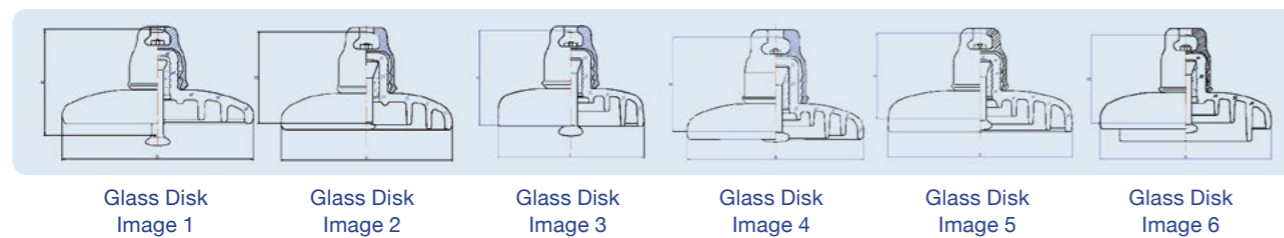
Nominal Disc Diameter D (mm)	Nominal Creepage Distance (mm)	Ball & Socket Size	Lightning Impulse Withstand Voltage (kV)	Wet Power Frequency Withstand Voltage (kV)
255	320	16	100	40
255	320	16	100	40
255	320	16	100	40
280	400	20	110	45
280	400	20	110	45
280	400	20	110	45
280	400	20	110	45
280	450	20	110	45
280	400	24	110	45
280	450	24	110	45
320	485	24	125	50
360	560	28	125	55

### Fog Profile

PLP Part Number	IEC Reference	Image Number	Mechanical Failing Load (kN)	Nominal Spacing L (mm)
I-GD-070-16SB-400C/146H	-	6	070	146
I-GD-070-16SB-450C/146H	-	3	070	146
I-GD-070-16SB-550C/146H	-	5	070	146
I-GD-120-16SB-400C/146H	-	6	120	146
I-GD-120-16SB-450C/146H	U120BLP	3	120	146
I-GD-120-16SB-550C/146H	-	5	120	146
I-GD-160-20SB-450C/155H	-	3	160	155
I-GD-160-20SB-450C/170H	-	3	160	170
I-GD-160-20SB-550C/170H	-	5	160	170
I-GD-160-20SB-550C/155H	-	5	160	155
I-GD-210-20SB-550C/170H	U210BP	5	210	170
I-GD-240-24SB-550C/170H	U210BP	6	240	170
I-GD-300-24SB-550C/195H		6	300	195
I-GD-300-24SB-635C/195H		6	300	195
I-GD-420-28SB-635C/205H		6	420	205

Nominal Disc Diameter D (mm)	Nominal Creepage Distance (mm)	Coupling and Locking Pin Type	Lightning Impulse Withstand Voltage (kV)	Wet Power Frequency Withstand Voltage (kV)
255	400	16	120	45
280	450	16	125	50
320	550	16	130	55
255	400	16	120	45
280	450	16	125	50
320	550	16	130	55
280	450	20	125	50
280	450	20	125	50
320	550	20	130	55
320	550	20	130	55
320	550	24	130	55
320	550	24	130	55
360	635	24	130	55
360	635	28	130	55

**Note:** Add suffix: -R for R-Clip or -W for W-Clip, -GR for Grey or -BR for Brown, -RTV for RTV Coating.



# Porcelain Disc Insulators

## Porcelain Disk Insulators for MV & HV Transmission Systems

PLP supplies high-quality porcelain disc insulators designed for medium-voltage and high-voltage transmission systems. They are suitable for overhead transmission lines, substations, and distribution networks, including installations in coastal and high-pollution environments.

These insulators provide dependable electrical insulation and high mechanical strength for long-term network reliability.

The insulators are manufactured using C130 porcelain in accordance with IEC 60672-3. C130 porcelain is a high-strength, low-porosity, high-alumina material with a glazed bending strength of 160 MPa, providing excellent mechanical performance and long-term reliability.

The forged steel cap and pin are hot-dip galvanized to ensure superior corrosion protection and structural integrity.

Porcelain disk insulators have excellent resistance to contamination, moisture ingress, UV exposure, and temperature extremes.



Each unit is type tested and routinely tested in accordance with IEC 60383-1, IEC 60120, and IEC 60273, ensuring full compliance with international performance and dimensional standards.

Units are available in a range of standard mechanical ratings and creepage distances to meet project-specific requirements. Finishes are available in both grey and brown glaze, allowing selection to suit utility preferences and environmental conditions.

### Key Features

- High mechanical strength and load performance.
- Proven electrical insulation reliability.
- Corrosion-resistant galvanized hardware.
- Long service life in harsh operating conditions.
- Manufactured and tested to IEC standards.



## Porcelain Disk Insulator Tables

### Standard Profile

PLP Part Number	IEC Ref	Image Number	Mechanical Failing Load (kN)	Nominal Spacing H (mm)
I-PD-40-16SB-210C/110H	U40B	–	40	110
I-PD-45-16SB-320C/146H	U40BL	–	45	146
I-PD-70-16SB-295C/146H	U70BL	1	70	146
I-PD-70-16SB-320C/146H	U70BL	1	70	146
I-PD-120-16SB-320C/146H	U120B	2	120	146
I-PD-160-20SB-405C/146H	U160BS	3	160	146
I-PD-160-20SB-405C/170H	U160BL	3	160	170
I-PD-210-20SB-405C/170H	U210B	4	210	170
I-PD-300-24SB-390C/195H	U300B	5	300	195
I-PD-300-24SB-460C/195H	U300B	6	300	195
I-PD-400-28SB-525C/205H	U400B	–	400	205
I-PD-530-32SB-700C/240H	U530B	–	530	240

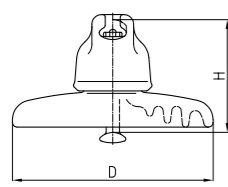
Nominal Disc Diameter D (mm)	Nominal Creepage Distance (mm)	Ball & Socket Size	Lightning Impulse Withstand Voltage (kV)	Wet Power Frequency Withstand Voltage (kV)
200	210	16	80	35
255	320	16	110	40
255	295	16	110	40
255	320	16	110	40
255	320	16	110	40
280	405	20	115	40
280	405	20	115	40
280	405	20	115	45
320	390	24	120	45
320	460	24	130	50
360	525	28	130	50
380	700	32	135	55

### Fog Profile

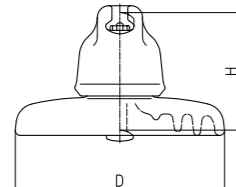
PLP Part Number	IEC Ref	Image Number	Mechanical Failing Load (kN)	Nominal Spacing H (mm)
I-PD-70-16SB-450C/146H	U70BLP	7	70	146
I-PD-120-16SB-440C/146H	U120BP	8	120	146
I-PD-160-20SB-440C/146H	U160BSP	9	160	146
I-PD-160-20SB-550C/170H	U160BLP	10	160	170
I-PD-210-20SB-450C/170H	U210BP	11	210	170
I-PD-210-20SB-550C/170H	U210BP	12	210	170
I-PD-300-24SB-590C/195H	U300BP	13	300	195
I-PD-300-24SB-690C/195H	U300BP	14	300	195
I-PD-400-28SB-720C/205H	U400BP	–	400	205

Nominal Disc Diameter D (mm)	Nominal Creepage Distance (mm)	Ball & Socket Size	Lightning Impulse Withstand Voltage (kV)	Wet Power Frequency Withstand Voltage (kV)
280	450	16	125	45
280	440	16	125	45
280	440	20	125	45
330	550	20	140	50
300	450	20	125	45
330	550	20	140	50
400	590	24	140	65
400	690	24	155	63
420	720	28	155	60

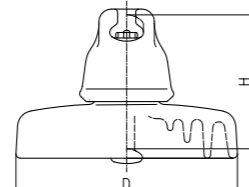
**Note:** Add suffix: -R for R-Clip or -W for W-Clip, -GR for Grey or -BR for Brown, -RTV for RTV Coating.



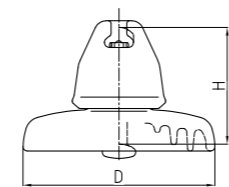
Porcelain Disk Image 1



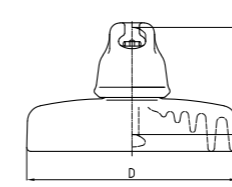
Porcelain Disk Image 2



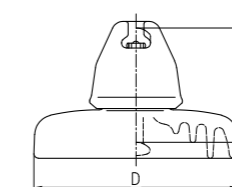
Porcelain Disk Image 3



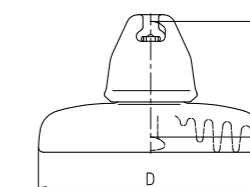
Porcelain Disk Image 4



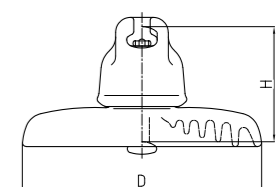
Porcelain Disk Image 8



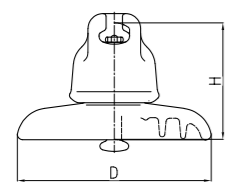
Porcelain Disk Image 9



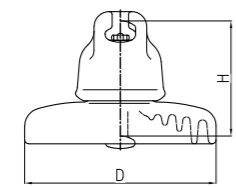
Porcelain Disk Image 10



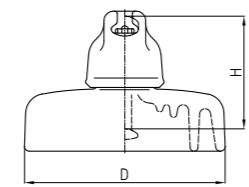
Porcelain Disk Image 11



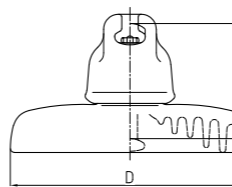
Porcelain Disk Image 5



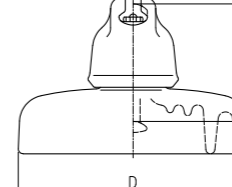
Porcelain Disk Image 6



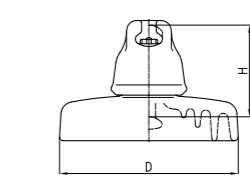
Porcelain Disk Image 7



Porcelain Disk Image 12



Porcelain Disk Image 13



Porcelain Disk Image 14

# Station Post Insulators

## Station Post Insulators for Substation Systems

PLP supplies a comprehensive range of station post insulators for indoor and outdoor substation applications. These insulators provide reliable electrical insulation and high mechanical strength for supporting live equipment under demanding service conditions.

Station post insulators are used to support busbars, disconnectors, earthing switches, and instrument transformers, while maintaining electrical clearances and phase separation.

Station post insulators are designed to withstand mechanical loads arising from conductor weight, wind forces, and switching operations.

They are suitable for air-insulated substations, indoor panels, and other fixed mounting applications across utility and industrial networks.

The PLP product range includes both porcelain and composite (polymer) station post insulators, available in indoor and outdoor designs.

Multiple heights, creepage distances, and mounting configurations are available to suit applications with system voltages up to 1100kV (AC/DC).

Optimised shed profiles and creepage distances ensure reliable performance in varying pollution environments, while robust metal end fittings provide secure installation and long service life.



Porcelain insulators are available with a brown or grey glaze finish.

All station post insulators are manufactured in accordance with relevant international standards, including IEC 60273, IEC 61952, and IEC 62231. Type test and routine test reports are available upon request.

### Key Features

- Voltage ratings up to 1100kV (AC/DC).
- High cantilever, compression, and torsional strength.
- Porcelain (brown or grey glaze) and composite construction options.
- Manufactured in accordance with IEC and Australian quality standards.

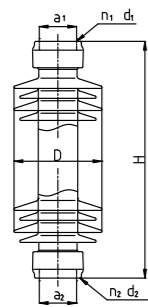


## Porcelain Station Post Insulator Tables

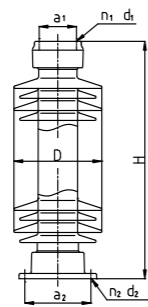
### Porcelain Station Post Insulators – 10-20kV

PLP Part Number	Image Number	Rated Voltage (kV)	Basic Insulation Level (BIL) (kV)	Cantilever Strength (kN)
I-PC4-10-388C/255H	1	10	95	4
I-PC10-10-300C/255H	2	10	95	10
I-PC10-10-440C/255H	1	10	95	10
I-PC12.5-10-440C/255H	2	10	95	12.5
I-PC8-10-372C/300H	2	10	125	8
I-PC12-10-372C/300H	1	10	125	12
I-PC16-10-372C/300H	2	10	125	16
I-PC20-10-372C/300H	2	10	125	20
I-PC4-20-600C/350H	1	20	125	4
I-PC10-20-550C/350H	2	20	125	10
I-PC10-20-600C/350H	1	20	125	10
I-PC12.5-20-744C/350H	2	20	125	12.5
I-PC30-20-744C/350H	2	20	125	30
I-PC8-20-744C/400H	1	20	150	8
I-PC12.5-20-744C/400H	1	20	150	12.5
I-PC12.5-20-900C/400H	1	20	150	12.5
I-PC30-20-810C/400H	3	20	150	30
I-PC36-20-600C/400H	1	20	150	36
I-PC60-20-600C/440H	3	20	150	60

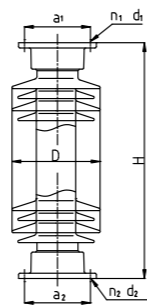
Torsion Strength (kN.m)	Creepage Distance (mm)	Height (mm)	Top Bolt Circle (n1-d1-a1)	Bottom Bolt Circle (n2-d2-a2)	Weight (kg)
2	388	255	4-M12-Ø76	4-M12-Ø76	6
4	300	255	2-M8-Ø36	2-12-Ø130	6
4	440	255	4-M12-Ø76	4-M12-Ø76	8
6	440	255	4-M12-Ø76	4-14-Ø140	9
4	372	300	4-M12-Ø140	4-14-Ø180	8
6	372	300	4-M12-Ø76	4-M12-Ø76	10
6	372	300	4-M12-Ø140	4-14-Ø180	10
6	372	300	4-M12-Ø140	4-14-Ø180	11
2	600	350	4-M10-Ø36	4-M10-Ø36	10
6	550	350	4-M12-Ø140	4-18-Ø210	15
6	600	350	4-M12-Ø140	4-M12-Ø140	15
6	744	350	4-M12-Ø140	4-18-Ø210	14
3	744	350	4-M12-Ø140	4-18-Ø225	15
4	744	400	4-M12-Ø140	4-M12-Ø140	20
6	744	400	4-M12-Ø140	4-M12-Ø140	22
6	900	400	4-M12-Ø140	4-M12-Ø140	18
15	810	400	4-18-Ø200	4-18-Ø200	30
20	600	400	4-M16-Ø127	4-M16-Ø127	28
10	600	440	6-18-Ø250	6-18-Ø250	46



Porcelain Station Post Insulator  
Image 1



Porcelain Station Post Insulator  
Image 2

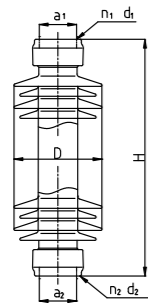


Porcelain Station Post Insulator  
Image 3

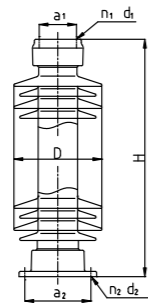
Porcelain Station Post Insulators – 35kV

PLP Part Number	Image Number	Rated Voltage (kV)	Basic Insulation Level (BIL) (kV)	Cantilever Strength (kN)
I-PC4-35-1300C/560H	1	35	250	4
I-PC4-35-1620C/560H	1	35	250	4
I-PC6-35-1300C/560H	1	35	250	6
I-PC6-35-1620C/560H	1	35	250	6
I-PC8-35-1300C/560H	1	35	250	8
I-PC8-35-1620C/560H	1	35	250	8
I-PC10-35-1300C/560H	1	35	250	10
I-PC10-35-1620C/560H	1	35	250	10
I-PC12.5-35-1300C/560H	1	35	250	12.5
I-PC12.5-35-1620C/560H	1	35	250	12.5
I-PC16-35-1300C/560H	1	35	250	16
I-PC16-35-1620C/560H	3	35	250	16
I-PC20-35-1300C/560H	1	35	250	20
I-PC20-35-1620C/600H	3	35	250	20
I-PC25-35-1620C/560H	1	35	250	25
I-PC30-35-1300C/560H	1	35	250	30
I-PC30-35-1620C/600H	3	35	250	30
I-PC36-35-1300C/560H	3	35	250	36
I-PC40-35-1300C/560H	1	35	250	40
I-PC40-35-1620C/600H	3	35	250	40
I-PC45-35-1300C/560H	2	35	250	45
I-PC50-35-1300C/560H	3	35	250	50
I-PC60-35-1300C/560H	1	35	250	60
I-PC70-35-1620C/600H	3	35	250	70

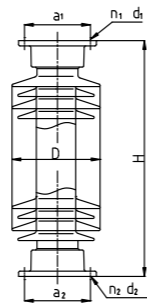
Torsion Strength (kN.m)	Creepage Distance (mm)	Height (mm)	Top Bolt Circle (n1-d1-a1)	Bottom Bolt Circle (n2-d2-a2)	Weight (kg)
1.8	1300	560	4-M16-Ø127	4-M16-Ø127	25
1.8	1620	560	4-M16-Ø127	4-M16-Ø127	29
2	1300	560	4-M16-Ø127	4-M16-Ø127	25
2	1620	560	4-M16-Ø127	4-M16-Ø127	29
2.5	1300	560	4-M16-Ø127	4-M16-Ø127	25
2.5	1620	560	4-M16-Ø127	4-M16-Ø127	29
3	1300	560	4-M16-Ø127	4-M16-Ø127	25
3	1620	560	4-M16-Ø127	4-M16-Ø127	29
4	1300	560	4-M16-Ø127	4-M16-Ø127	25
4	1620	560	4-M16-Ø127	4-M16-Ø127	29
6	1300	560	4-M16-Ø127	4-M16-Ø127	31
6	1620	560	4-18-Ø200	4-18-Ø200	38
8	1300	560	4-M16-Ø127	4-M16-Ø127	34
10	1620	600	4-18-Ø225	4-18-Ø225	64
4	1620	560	4-M16-Ø127	4-M16-Ø127	39
10	1300	560	4-M16-Ø127	4-M16-Ø127	44
10	1620	600	4-18-Ø225	4-18-Ø225	58
20	1300	560	4-18-Ø225	4-18-Ø225	52
12.5	1300	560	4-M16-Ø127	4-M16-Ø127	52
10	1620	600	4-18-Ø225	4-18-Ø225	59
12.5	1300	560	4-M16-Ø127	8-18-Ø254	57
20	1300	560	4-18-Ø225	4-18-Ø225	56
16	1300	560	4-M16-Ø127	4-M16-Ø127	54
25	1620	600	8-20-Ø275	8-20-Ø275	90



Porcelain Station Post Insulator Image 1



Porcelain Station Post Insulator Image 2

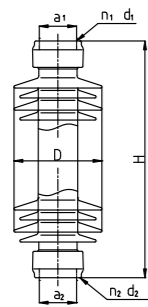


Porcelain Station Post Insulator Image 3

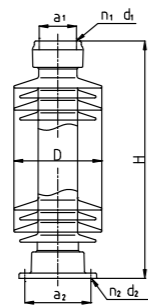
Porcelain Station Post Insulators – 66kV

PLP Part Number	Image Number	Rated Voltage (kV)	Basic Insulation Level (BIL) (kV)	Cantilever Strength (kN)
I-PC4-66-1820C/770H	1	66	325	4
I-PC4-66-2260C/770H	1	66	325	4
I-PC6-66-1820C/770H	1	66	325	6
I-PC6-66-2260C/770H	1	66	325	6
I-PC8-66-1820C/770H	1	66	325	8
I-PC8-66-2260C/770H	1	66	325	8
I-PC10-66-1820C/770H	1	66	325	10
I-PC10-66-2260C/770H	1	66	325	10
I-PC12.5-66-1820C/770H	1	66	325	12.5
I-PC12.5-66-2260C/770H	1	66	325	12.5
I-PC16-66-1820C/770H	1	66	325	16
I-PC16-66-2260C/770H	1	66	325	16
I-PC20-66-1820C/770H	1	66	325	20
I-PC20-66-2260C/770H	1	66	325	20
I-PC30-66-1820C/770H	3	66	325	30
I-PC36-66-1820C/770H	3	66	325	36
I-PC40-66-1820C/770H	3	66	325	40
I-PC60-66-1820C/770H	3	66	325	60
I-PC70-66-1820C/770H	3	66	325	70
I-PC80-66-1820C/770H	3	66	325	80
I-PC90-66-1820C/800H	3	66	325	90
I-PC120-66-2260C/700H	3	66	325	120

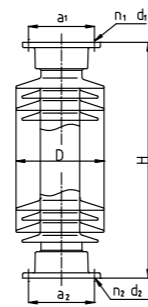
Torsion Strength (kN.m)	Creepage Distance (mm)	Height (mm)	Top Bolt Circle (n1-d1-a1)	Bottom Bolt Circle (n2-d2-a2)	Weight (kg)
2	1820	770	4-M16-Ø127	4-M16-Ø127	36
2	2260	770	4-M16-Ø127	4-M16-Ø127	41
2.5	1820	770	4-M16-Ø127	4-M16-Ø127	36
2.5	2260	770	4-M16-Ø127	4-M16-Ø127	41
3	1820	770	4-M16-Ø127	4-M16-Ø127	36
3	2260	770	4-M16-Ø127	4-M16-Ø127	41
4	1820	770	4-M16-Ø127	4-M16-Ø127	44
4	2260	770	4-M16-Ø127	4-M16-Ø127	50
4	1820	770	4-M16-Ø127	4-M16-Ø127	44
4	2260	770	4-M16-Ø127	4-M16-Ø127	50
5	1820	770	4-M16-Ø127	4-M16-Ø127	49
5	2260	770	4-M16-Ø127	4-M16-Ø127	54
6	1820	770	4-M16-Ø127	4-M16-Ø127	57
6	2260	770	4-M16-Ø127	4-M16-Ø127	62
8	1820	770	8-18-Ø254	8-18-Ø254	76
12	1820	770	8-18-Ø254	8-18-Ø275	79
20	1820	770	8-18-Ø254	8-18-Ø254	85
20	1820	770	8-18-Ø254	8-18-Ø254	106
24	1820	770	8-18-Ø275	8-18-Ø275	114
28	1820	770	8-18-Ø325	8-18-Ø325	147
15	1820	800	8-18-Ø325	8-18-Ø325	162
60	2260	700	8-18-Ø325	8-18-Ø325	153



Porcelain Station Post Insulator Image 1



Porcelain Station Post Insulator Image 2

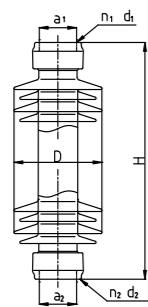


Porcelain Station Post Insulator Image 3

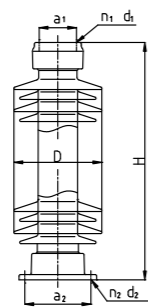
Porcelain Station Post Insulators – 110kV

PLP Part Number	Image Number	Rated Voltage (kV)	Basic Insulation Level (BIL) (kV)	Cantilever Strength (kN)
I-PC4-110-2500C/1020H	1	110	450	4
I-PC4-110-3100C/1020H	1	110	450	4
I-PC6-110-2500C/1020H	1	110	450	6
I-PC6-110-3100C/1020H	1	110	450	6
I-PC8-110-2500C/1020H	1	110	450	8
I-PC8-110-3100C/1020H	1	110	450	8
I-PC10-110-2500C/1020H	1	110	450	10
I-PC10-110-3100C/1020H	1	110	450	10
I-PC12.5-110-2500C/1020H	1	110	450	12.5
I-PC12.5-110-3100C/1020H	1	110	450	12.5
I-PC16-110-2500C/1020H	2	110	450	16
I-PC16-110-3100C/1020H	2	110	450	16
I-PC20-110-2500C/1020H	2	110	450	20
I-PC20-110-3100C/1020H	2	110	450	20
I-PC4-110-3150C/1220H	1	110	550	4
I-PC4-110-3910C/1220H	1	110	550	4
I-PC6-110-3150C/1220H	1	110	550	6
I-PC6-110-3910C/1220H	1	110	550	6
I-PC8-110-3150C/1220H	1	110	550	8
I-PC8-110-3910C/1220H	1	110	550	8
I-PC10-110-3150C/1220H	1	110	550	10
I-PC10-110-3910C/1220H	1	110	550	10
I-PC12.5-110-3150C/1220H	2	110	550	12.5
I-PC12.5-110-3910C/1220H	2	110	550	12.5
I-PC16-110-3150C/1220H	2	110	550	16
I-PC16-110-3910C/1220H	2	110	550	16

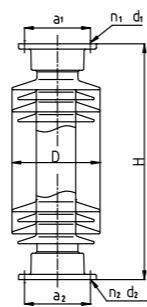
Torsion Strength (kN.m)	Creepage Distance (mm)	Height (mm)	Top Bolt Circle (n1-d1-a1)	Bottom Bolt Circle (n2-d2-a2)	Weight (kg)
2.5	2500	1020	4-M16-Ø127	4-M16-Ø127	43
2.5	3100	1020	4-M16-Ø127	4-M16-Ø127	52
3.5	2500	1020	4-M16-Ø127	4-M16-Ø127	43
3.5	3100	1020	4-M16-Ø127	4-M16-Ø127	52
4	2500	1020	4-M16-Ø127	4-M16-Ø127	49
4	3100	1020	4-M16-Ø127	4-M16-Ø127	55
4	2500	1020	4-M16-Ø127	4-M16-Ø127	54
4	3100	1020	4-M16-Ø127	4-M16-Ø127	61
6	2500	1020	4-M16-Ø127	4-M16-Ø127	59
6	3100	1020	4-M16-Ø127	4-M16-Ø127	67
6	2500	1020	4-M16-Ø127	8-18-Ø254	76
6	3100	1020	4-M16-Ø127	8-18-Ø254	81
6	2500	1020	4-M16-Ø127	8-18-Ø254	87
6	3100	1020	4-M16-Ø127	8-18-Ø254	95
3	3150	1220	4-M16-Ø127	4-M16-Ø127	49
3	3910	1220	4-M16-Ø127	4-M16-Ø127	60
4	3150	1220	4-M16-Ø127	4-M16-Ø127	57
4	3910	1220	4-M16-Ø127	4-M16-Ø127	65
4	3150	1220	4-M16-Ø127	4-M16-Ø127	60
4	3910	1220	4-M16-Ø127	4-M16-Ø127	69
4	3150	1220	4-M16-Ø127	4-M16-Ø127	68
4	3910	1220	4-M16-Ø127	4-M16-Ø127	80
6	3150	1220	4-M16-Ø127	8-18-Ø254	80
6	3910	1220	4-M16-Ø127	8-18-Ø254	90
6	3150	1220	4-M16-Ø127	8-18-Ø254	83
6	3910	1220	4-M16-Ø127	8-18-Ø254	96



Porcelain Station Post Insulator Image 1



Porcelain Station Post Insulator Image 2

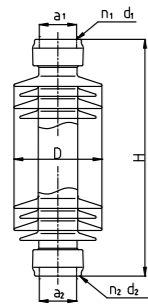


Porcelain Station Post Insulator Image 3

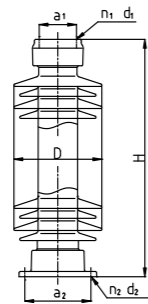
Porcelain Station Post Insulators – 132kV

PLP Part Number	Image Number	Rated Voltage (kV)	Basic Insulation Level (BIL) (kV)	Cantilever Strength (kN)
I-PC4-132-3625C/1500H	1	132	650	4
I-PC4-132-4510C/1500H	1	132	650	4
I-PC6-132-3625C/1500H	1	132	650	6
I-PC6-132-4510C/1500H	1	132	650	6
I-PC8-132-3625C/1500H	1	132	650	8
I-PC8-132-4510C/1500H	1	132	650	8
I-PC10-132-3625C/1500H	2	132	650	10
I-PC10-132-4510C/1500H	2	132	650	10
I-PC12.5-132-3625C/1500H	2	132	650	12.5
I-PC12.5-132-4510C/1500H	2	132	650	12.5
I-PC16-132-4495C/1500H	2	132	650	16
I-PC18-132-4495C/1500H	2	132	650	18
I-PC25-132-4495C/1500H	1	132	650	25
I-PC30-132-4495C/1500H	2	132	650	30
I-PC40-132-4495C/1500H	3	132	650	40

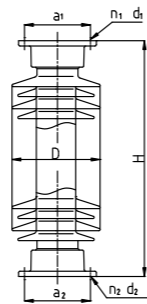
Torsion Strength (kN.m)	Creepage Distance (mm)	Height (mm)	Top Bolt Circle (n1-d1-a1)	Bottom Bolt Circle (n2-d2-a2)	Weight (kg)
3	3625	1500	4-M16-Ø127	4-M16-Ø127	69
3	4510	1500	4-M16-Ø127	4-M16-Ø127	77
3	3625	1500	4-M16-Ø127	4-M16-Ø127	70
3	4510	1500	4-M16-Ø127	4-M16-Ø127	82
4	3625	1500	4-M16-Ø127	4-M16-Ø127	84
4	4510	1500	4-M16-Ø127	4-M16-Ø127	96
4	3625	1500	4-M16-Ø127	8-18-Ø254	99
4	4510	1500	4-M16-Ø127	8-18-Ø254	112
6	3625	1500	4-M16-Ø127	8-18-Ø254	110
6	4510	1500	4-M16-Ø127	8-18-Ø254	122
10	4495	1500	4-M12-Ø140	4-18-Ø254	133
10	4495	1500	4-M12-Ø140	8-18-Ø254	131
10	4495	1500	4-M20-Ø178	4-M20-Ø178	161
10	4495	1500	4-M16-Ø160	8-18-Ø275	186
10	4495	1500	8-18-Ø325	8-18-Ø325	243



Porcelain Station Post Insulator  
Image 1



Porcelain Station Post Insulator  
Image 2

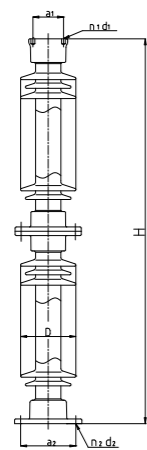


Porcelain Station Post Insulator  
Image 3

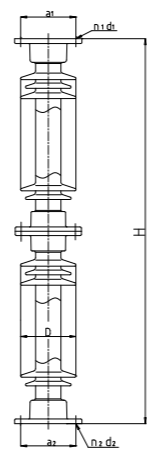
Porcelain Station Post Insulators – 220kV

PLP Part Number	Image Number	Rated Voltage (kV)	Basic Insulation Level (BIL) (kV)	Cantilever Strength (kN)
I-PC8-220-7820C/2300H	5	220	1050	8
I-PC6-220-6300C/2400H	6	220	1050	6
I-PC6-220-7820C/2400H	6	220	1050	6
I-PC8-220-6300C/2400H	5	220	1050	8
I-PC8-220-7820C/2400H	5	220	1050	8
I-PC10-220-7820C/2300H	5	220	1050	10
I-PC12.5-220-6300C/2300H	5	220	1050	12.5
I-PC12.5-220-7820C/2300H	5	220	1050	12.5
I-PC16-220-6300C/2300H	5	220	1050	16
I-PC16-220-7820C/2300H	5	220	1050	16
I-PC20-220-6300C/2300H	6	220	1050	20
I-PC20-220-7820C/2300H	6	220	1050	20
I-PC25-220-7820C/2300H	6	220	1050	25
I-PC40-220-7820C/2300H	6	220	1050	40
I-PC4-220-7500C/2650H	5	220	1175	4
I-PC4-220-9300C/2650H	5	220	1175	4
I-PC6-220-7500C/2650H	5	220	1175	6
I-PC6-220-9300C/2650H	5	220	1175	6
I-PC8-220-7595C/2650H	5	220	1175	8
I-PC10-220-7500C/2650H	5	220	1175	10
I-PC16-220-7595C/2650H	6	220	1175	16
I-PC30-220-7820C/2650H	6	220	1175	30
I-PC8-220-9300C/2650H	6	220	1175	8
I-PC10-220-9300C/2650H	5	220	1175	10
I-PC12.5-220-9300C/2650H	5	220	1175	12.5
I-PC30-220-9300C/2650H	6	220	1175	30

Torsion Strength (kN.m)	Creepage Distance (mm)	Height (mm)	Top Bolt Circle (n1-d1-a1)	Bottom Bolt Circle (n2-d2-a2)	Weight (kg)
4	7820	2300	4-M16-Ø127	8-18-Ø254	162
3	6300	2400	4-18-Ø225	8-18-Ø250	153
3	7820	2400	4-18-Ø225	8-18-Ø250	173
4	6300	2400	4-M16-Ø127	8-18-Ø250	156
4	7820	2400	4-M16-Ø127	8-18-Ø250	178
6	7820	2300	4-M16-Ø127	8-18-Ø275	209
6	6300	2300	4-M16-Ø127	8-18-Ø254	200
6	7820	2300	4-M16-Ø127	8-18-Ø254	218
6	6300	2300	4-M12-Ø140	8-18-Ø275	218
8	7820	2300	4-M16-Ø127	8-18-Ø275	246
10	6300	2300	8-18-Ø254	8-18-Ø300	271
15	7820	2300	8-18-Ø254	8-18-Ø300	292
15	7820	2300	8-18-Ø254	8-18-Ø300	330
20	7820	2300	8-18-Ø300	8-18-Ø356	430
3	7500	2650	4-M16-Ø127	4-18-Ø225	145
3	9300	2650	4-M16-Ø127	4-18-Ø225	175
3	7500	2650	4-M16-Ø127	8-18-Ø254	171
3	9300	2650	4-M16-Ø127	8-18-Ø254	192
6	7595	2650	4-M12-Ø140	4-18-Ø250	207
8	7500	2650	4-M16-Ø127	8-18-Ø300	215
6	7595	2650	4-18-Ø225	8-18-Ø325	307
12	7820	2650	8-18-Ø325	8-18-Ø356	426
4	9300	2650	4-18-Ø225	8-18-Ø225	238
4	9300	2650	4-M16-Ø127	8-18-Ø275	250
8	9300	2650	4-M16-Ø127	8-18-Ø254	283
15	9300	2650	8-18-Ø300	8-18-Ø356	420



Porcelain Station Post Insulator  
Image 5

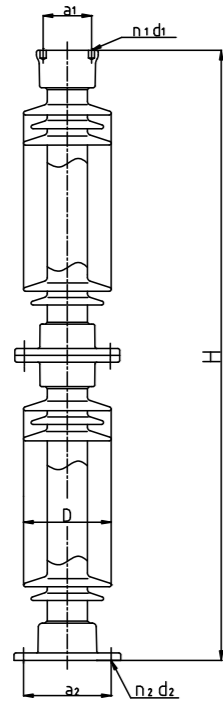


Porcelain Station Post Insulator  
Image 6

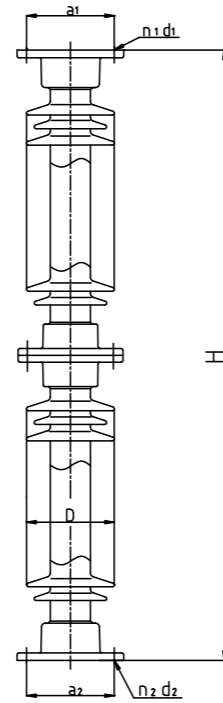
Porcelain Station Post Insulators – 330kV

PLP Part Number	Image Number	Rated Voltage (kV)	Basic Insulation Level (BIL) (kV)	Cantilever Strength (kN)
I-PC4-330-9080C/2900H	5	330	1300	4
I-PC6-330-9080C/2900H	5	330	1300	6
I-PC8-330-9080C/2900H	5	330	1300	8
I-PC12.5-330-9080C/2900H	5	330	1300	12.5
I-PC4-330-10500C/3350H	5	330	1550	4
I-PC12.5-330-11260C/3350H	6	330	1550	12.5
I-PC16-330-11260C/3350H	6	330	1550	16
I-PC20-330-11260C/3500H	6	330	1550	20

Torsion Strength (kN.m)	Creepage Distance (mm)	Height (mm)	Top Bolt Circle (n1-d1-a1)	Bottom Bolt Circle (n2-d2-a2)	Weight (kg)
4	9080	2900	4-M16-Ø127	4-18-Ø225	187
4	9080	2900	4-M16-Ø127	8-18-Ø254	195
4	9080	2900	4-M16-Ø127	8-18-Ø275	218
6	9080	2900	4-M16-Ø127	8-18-Ø300	304
3	10500	3350	4-M16-Ø127	4-18-Ø225	222
10	11260	3350	8-18-Ø254	8-18-Ø325	414
10	11260	3350	8-18-Ø225	8-18-Ø356	446
12	11260	3500	8-18-Ø225	8-18-Ø356	508



Porcelain Station Post Insulator Image 5



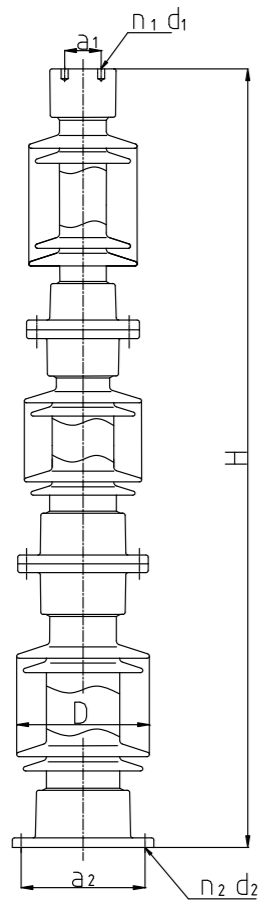
Porcelain Station Post Insulator Image 6



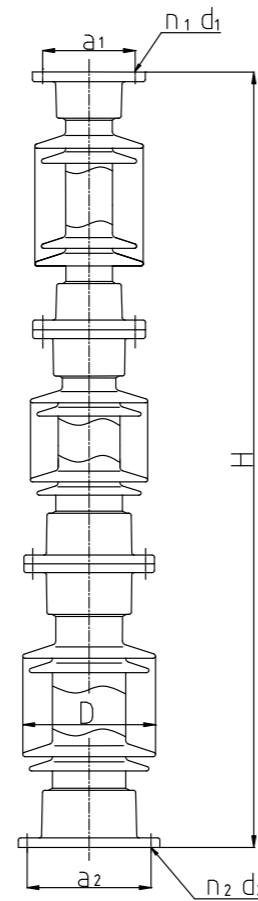
Porcelain Station Post Insulators – 500kV

PLP Part Number	Image Number	Rated Voltage (kV)	Basic Insulation Level (BIL) (kV)	Cantilever Strength (kN)
I-PC8-500-13750C/4000H	8	500	1800	8
I-PC10-500-13750C/4000H	9	500	1800	10
I-PC12.5-500-17050C/4000H	8	500	1800	12.5
I-PC8-500-13750C/4400H	9	500	1950	8
I-PC10-500-13750C/4400H	8	500	1950	10
I-PC12.5-500-13750C/4400H	9	500	1950	12.5
I-PC16-500-13750C/4400H	9	500	1950	16
I-PC8-500-17050C/4400H	9	500	1950	8
I-PC10-500-17050C/4400H	9	500	1950	10
I-PC12.5-500-17050C/4400H	9	500	1950	12.5
I-PC16-500-17050C/4400H	9	500	1950	16
I-PC10-500-13750C/4700H	9	500	1950	10
I-PC8-500-17050C/4700H	9	500	2100	8
I-PC10-500-17050C/4700H	9	500	2100	10
I-PC12.5-500-17050C/4700H	9	500	2100	12.5
I-PC16-500-17050C/4700H	9	500	2100	16

Torsion Strength (kN.m)	Creepage Distance (mm)	Height (mm)	Top Bolt Circle (n1-d1-a1)	Bottom Bolt Circle (n2-d2-a2)	Weight (kg)
6	13750	4000	4-M16-Ø0127	8-18-Ø300	377
6	13750	4000	8-18-Ø254	8-18-Ø325	468
8	17050	4000	4-M16-Ø127	8-18-Ø300	566
6	13750	4400	4-18-Ø225	8-18-Ø300	452
7	13750	4400	4-M16-Ø127	8-18-Ø254	487
10	13750	4400	4-18-Ø225	8-18-Ø325	501
8	13750	4400	4-18-Ø225	8-18-Ø356	615
6	17050	4400	4-18-Ø225	8-18-Ø300	504
10	17050	4400	4-18-Ø225	8-18-Ø325	525
10	17050	4400	4-18-Ø225	8-18-Ø325	821
8	17050	4400	4-18-Ø225	8-18-Ø356	633
4	13750	4700	4-18-Ø225	8-18-Ø300	511
6	17050	4700	8-18-Ø254	8-18-Ø325	533
8	17050	4700	8-18-Ø254	8-18-Ø325	568
10	17050	4700	4-18-Ø225	8-18-Ø325	615
10	17050	4700	4-18-Ø254	8-18-Ø325	774



Porcelain Station Post Insulator  
Image 8



Porcelain Station Post Insulator  
Image 9

Porcelain Station Post Insulators – 750kV

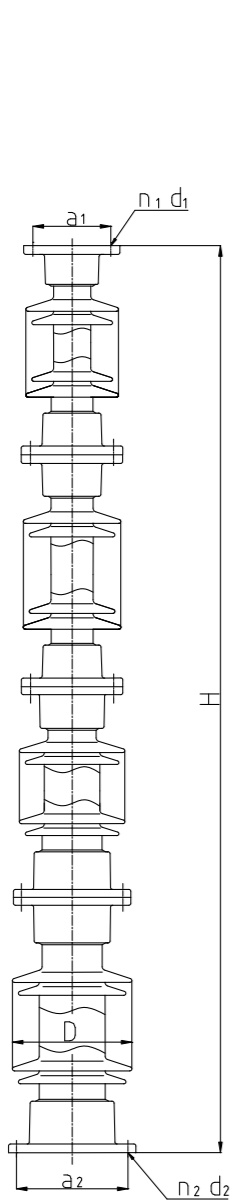
PLP Part Number	Image Number	Rated Voltage (kV)	Basic Insulation Level (BIL) (kV)	Cantilever Strength (kN)
I-PC12.5-750-26073C/8000H	11	750	2850	12.5
I-PC16-750-22000C/7200H	11	750	2850	16
I-PC20-750-25440C/7200H	11	750	2850	20
I-PC16-750-25440C/7000H	11	750	2750	16

Porcelain Station Post Insulators – 1000kV

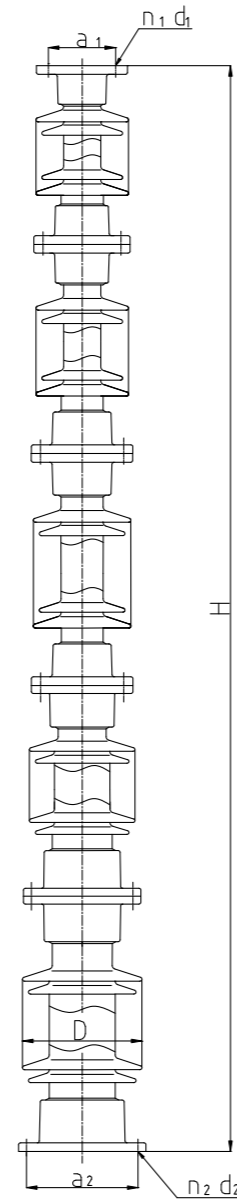
PLP Part Number	Image Number	Rated Voltage (kV)	Basic Insulation Level (BIL) (kV)	Cantilever Strength (kN)
I-PC16-1000-30250C/12000H	12	1000	3200	16
I-PC16-1000-30250C/10000H	12	1000	32000	16

Torsion Strength (kN.m)	Creepage Distance (mm)	Height (mm)	Top Bolt Circle (n1-d1-a1)	Bottom Bolt Circle (n2-d2-a2)	Weight (kg)
10	26073	8000	8-18-Ø275	8-18-Ø356	1292
10	22000	7200	8-18-Ø356	8-22-Ø375	1494
10	25440	7200	8-18-Ø275	8-22-Ø400	1496
12	25440	7000	8-18-Ø300	8-22-Ø375	1282

Torsion Strength (kN.m)	Creepage Distance (mm)	Height (mm)	Top Bolt Circle (n1-d1-a1)	Bottom Bolt Circle (n2-d2-a2)	Weight (kg)
10	30250	12000	16-22-Ø400	16-22-Ø400	2278
10	30250	10000	12-22-Ø400	12-22-Ø400	2875



Porcelain Station Post Insulator  
Image 11



Porcelain Station Post Insulator  
Image 12



# Composite Insulators



## Composite Insulators for Overhead Transmission and Distribution Lines

PLP supplies composite (polymeric) insulators for transmission and distribution line infrastructure, including overhead line applications and connections to substations.

Composite insulators are available in all standard configurations for tension, suspension, and jumper assemblies and are compatible with standard conductor and hardware connection systems.

Composite insulators for transmission networks are available for nominal system voltages from 66kV to 500kV. Insulators rated for nominal system voltages higher than 500kV are also available.

Composite insulators for distribution networks are available for nominal system voltages from 10kV to 33kV.

Post-type composite insulators are available in horizontal, vertical, and inverted vertical configurations with standard mounting flanges.

Gain-base mounts for round or square poles can be supplied where required.

Long-rod composite insulators for tension and suspension applications are available in all standard tensile strength ratings, with standard end fittings suitable for conductor connection and structure mounting.

Corona rings are available for composite insulators where required.

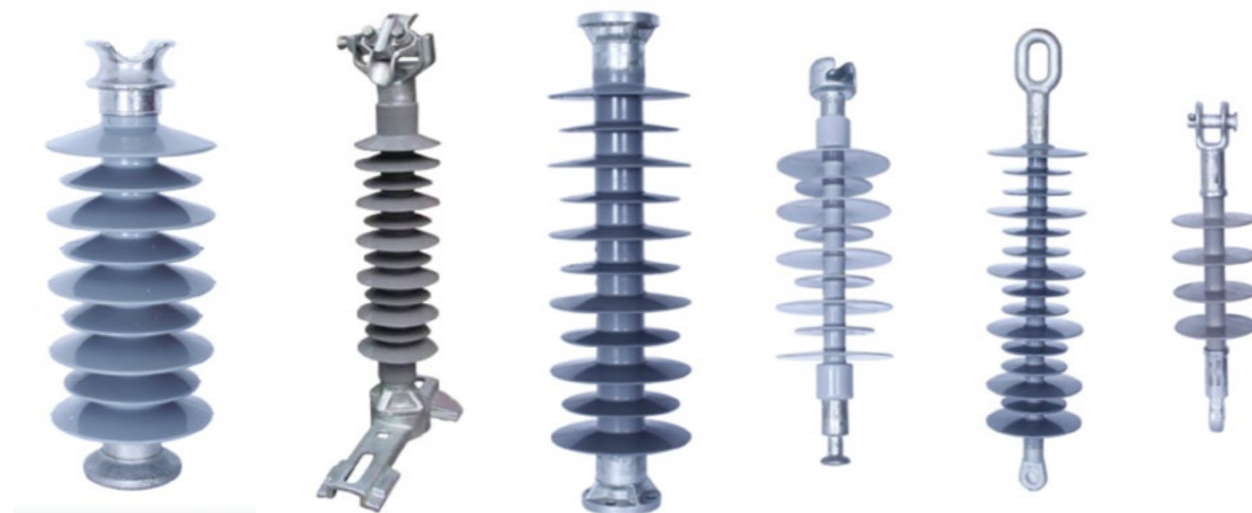


All composite insulators supplied by PLP are designed and tested in accordance with applicable IEC standards and comply with relevant Australian quality requirements.

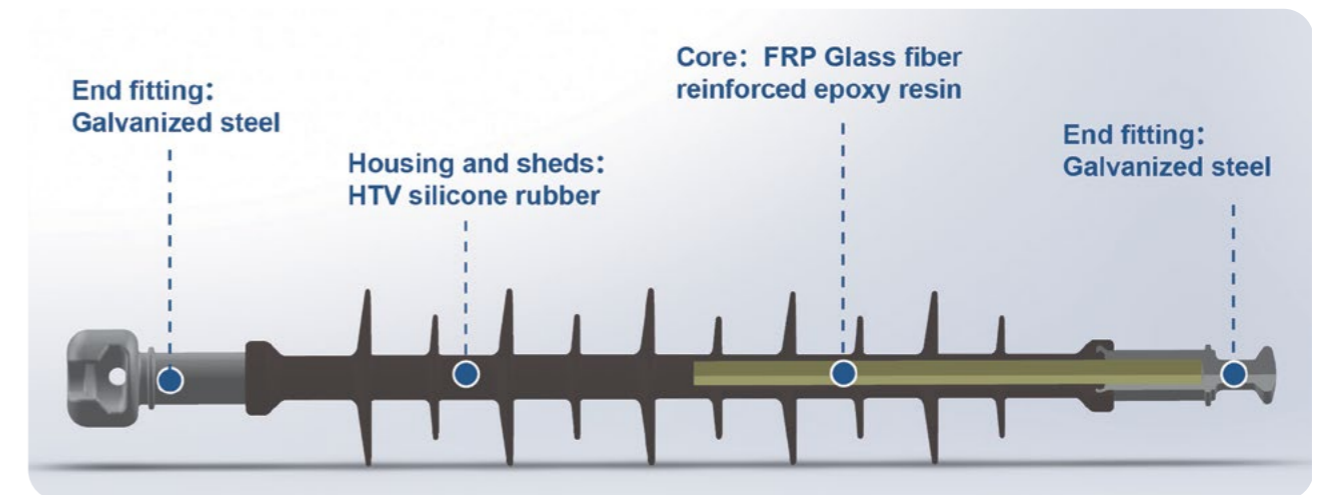
### Key Features

- Lightweight construction, approximately 10% of the weight of porcelain or glass insulators.
- Reduced load on towers and poles, potentially lowering construction and transport costs.
- The flexible construction material is resistant to environmental and vandalism damage.
- Hydrophobic (water-repellent) surface reduces the risk of flashovers.
- Less maintenance required due to the self-cleaning hydrophobic properties.

## Wide Range of Composite Insulators



## Cross Section of Composite Insulator



## Composite Long Rod Insulator Tables

### Composite Long Rod Insulators – 70kN

PLP Part Number	Mechanical Failing Load (kN)	Rated Voltage (kV)	Length (mm)
I-CS-70-11-SB-350C/310L	70	11	310
I-CS-70-11-SB-450C/310L	70	11	310
I-CS-70-25-SB-800C/415L	70	25	415
I-CS-70-35-SB-900C/560L	70	35	560
I-CS-70-35-SB-1015C/660L	70	35	660
I-CS-70-35-SB-1250C/660L	70	35	660
I-CS-70-66-SB-1810C/940L	70	66	940
I-CS-70-66-SB-2245C/940L	70	66	940
I-CS-70-110-SB-3150C/1240L	70	110	1240
I-CS-70-132-SB-3625C/1500L	70	132	1500
I-CS-70-220-SB-6125C/2350L	70	220	2350
I-CS-70-220-SB-7595C/2750L	70	220	2750

Nominal Creepage Distance (mm)	Arcing Distance (mm)	Lightning Impulse Withstand Voltage (kV)	Wet Power Frequency Withstand Voltage (kV)	Weight (kg)
350	158	95	42	1.4
450	158	95	42	1.5
800	260	125	65	1.8
900	405	230	95	1.8
1015	490	230	95	2.0
1250	498	230	95	2.4
1810	768	410	185	3.0
2245	768	410	185	3.2
3150	1070	550	230	3.9
3625	1330	550	230	5.5
6125	2176	1000	395	6.6
7595	2586	1000	395	7.8

### Composite Long Rod Insulators – 120kN

PLP Part Number	Mechanical Failing Load (kN)	Rated Voltage (kV)	Length (mm)
I-CS-120-35-SB-1250C/700L	120	35	700
I-CS-120-66-SB-2245C/940L	120	66	940
I-CS-120-110-SB-3150C/1240L	120	110	1240
I-CS-120-132-SB-4495C/1500L	120	132	1500
I-CS-120-220-SB-6125C/2350L	120	220	2350
I-CS-120-230-SB-7595C/2750L	120	230	2750
I-CS-120-330-SB-9075C/3050L	120	330	3050
I-CS-120-400-SB-10500C/3200L	120	400	3200
I-CS-120-500-SB-14000C/4450L	120	500	4450
I-CS-120-500-SB-16000C/4900L	120	500	4900

Nominal Creepage Distance (mm)	Arcing Distance (mm)	Lightning Impulse Withstand Voltage (kV)	Wet Power Frequency Withstand Voltage (kV)	Weight (kg)
1250	498	230	95	2.4
2245	740	410	185	3.5
3150	1070	550	230	3.9
4495	2176	550	230	5.5
6125	2140	1000	395	6.8
7595	2540	1000	395	7.6
9075	2840	1425	570	13.7
10500	3000	1550	680	11.7
14000	4235	2050	740	19.9
16000	4685	2050	740	21.6

**Note:** Replace SB in part number with alternative end fittings listed below:

SB – Socket / Ball

CT – Clevis / Tongue

YCT – Y-Clevis / Tongue

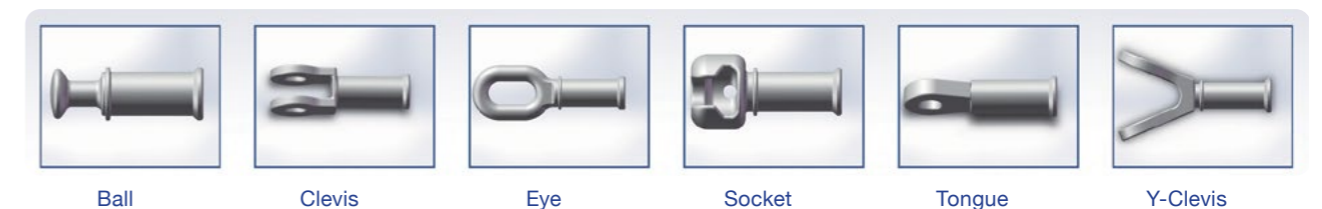
CYC – Clevis / Y-Clevis

EB – Eye / Ball

EE – Eye / Eye

Add Suffix: -GR for Grading Rings.

### Range of End Fittings for Composite Long Rod Insulators



Ball

Clevis

Eye

Socket

Tongue

Y-Clevis

**Composite Long Rod Insulators – 160kN**

PLP Part Number	Mechanical Failing Load (kN)	Rated Voltage (kV)	Length (mm)
I-CS-160-110-SB-3150C/1340L	160	110	1340
I-CS-160-132-SB-3625C/1440L	160	132	1440
I-CS-160-220-SB-6340C/2350L	160	220	2350
I-CS-160-230-SB-7595C/2750L	160	230	2750
I-CS-160-330-SB-10560C/3350L	160	330	3350
I-CS-160-400-SB-13020C/3950L	160	400	3950
I-CS-160-500-SB-14000C/4450L	160	500	4450
I-CS-160-500-SB-16000C/4900L	160	500	4900

Nominal Creepage Distance (mm)	Arcing Distance (mm)	Lightning Impulse Withstand Voltage (kV)	Wet Power Frequency Withstand Voltage (kV)	Weight (kg)
3150	1055	550	230	6.9
3625	1153	550	230	7.2
6340	2065	1000	395	11.2
7595	2470	1000	395	12.5
10560	3065	1425	570	15.5
13020	3660	1550	680	18.6
14000	4165	2050	740	20.2
16000	4620	2050	740	22.1

**Composite Long Rod Insulators – 210kN**

PLP Part Number	Mechanical Failing Load (kN)	Rated Voltage (kV)	Length (mm)
I-CS-210-110-SB-3150C/1340L	210	110	1340
I-CS-210-132-SB-3625C/1500L	210	132	1500
I-CS-210-220-SB-6125C/2350L	210	220	2350
I-CS-210-220-SB-6325C/2750L	210	220	2750
I-CS-210-330-SB-9075C/3350L	210	330	3350
I-CS-210-400-SB-10500C/3950L	210	400	3950
I-CS-210-500-SB-14000C/4450L	210	500	4450
I-CS-210-500-SB-16000C/4900L	210	500	4900

Nominal Creepage Distance (mm)	Arcing Distance (mm)	Lightning Impulse Withstand Voltage (kV)	Wet Power Frequency Withstand Voltage (kV)	Weight (kg)
3150	1020	550	230	7.4
3625	1180	550	230	7.9
6125	1970	1000	395	12.9
6325	2440	1000	395	14.3
9075	2960	1425	570	17.4
10500	3530	1550	680	19.9
14000	4055	2050	740	22.7
16000	4510	2050	740	25.5

**Composite Long Rod Insulators – 300kN**

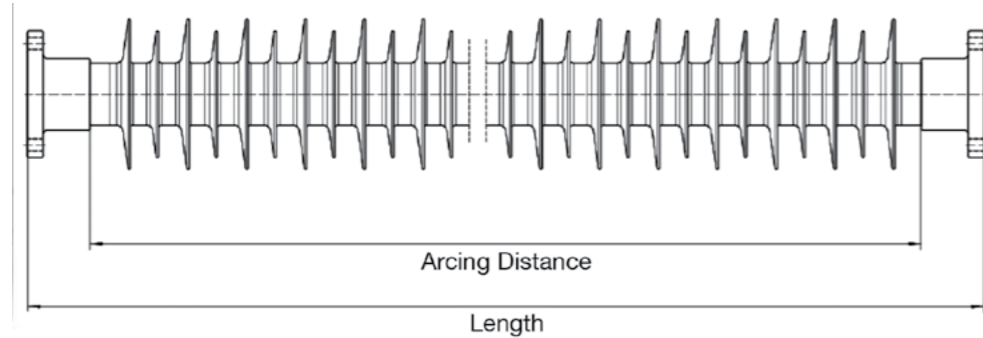
PLP Part Number	Mechanical Failing Load (kN)	Rated Voltage (kV)	Length (mm)
I-CS-300-220-SB-6325C/2750L	300	220	2750
I-CS-300-330-SB-9075C/3350L	300	330	3350
I-CS-300-400-SB-10500C/4050L	300	400	4050
I-CS-300-500-SB-14000C/4450L	300	500	4450
I-CS-300-500-SB-16000C/4900L	300	500	4900
I-CS-300-750-SB-25800C/7150L	300	750	7150
I-CS-300-750-SB-25800C/7350L	300	750	7350
I-CS-300-1000-SB-32000C/9000L	300	1000	9000

Nominal Creepage Distance (mm)	Arcing Distance (mm)	Lightning Impulse Withstand Voltage (kV)	Wet Power Frequency Withstand Voltage (kV)	Weight (kg)
6325	2320	1000	395	17.8
9075	2922	1425	570	21.0
10500	3600	1550	680	25.2
14000	4000	2050	740	28.6
16000	4450	2050	740	30.4
25800	6680	2750	1050	55.2
25800	6880	2750	1050	57.2
32000	8530	3200	1300	68.5

### Composite Line Post Insulator Table

#### Composite Line Post Insulators – 5kN-20kN

PLP Part Number	Rated Voltage (kV)	SCL (kN)	Length (mm)	Nominal Creepage Distance (mm)	Arcing Distance (mm)
I-VLPC-11-5	11	5	215	290	140
I-VLPC-33-10	33	10	530	1015	400
I-VLPC-40.5-10	40.5	10	620	1200	500
I-VLPC-69-10	69	10	820	1900	650
I-VLPC-110-10	110	10	1220	3150	1050
I-VLPC-110-12.5	110	12.5	1220	3150	1050
I-VLPC-132-10	132	10	1500	3625	1300
I-VLPC-230-10	230	10	2300	7000	2100
I-VLPC-230-14	230	14	2300	7820	2050
I-VLPC-230-20	230	20	2300	7820	2000



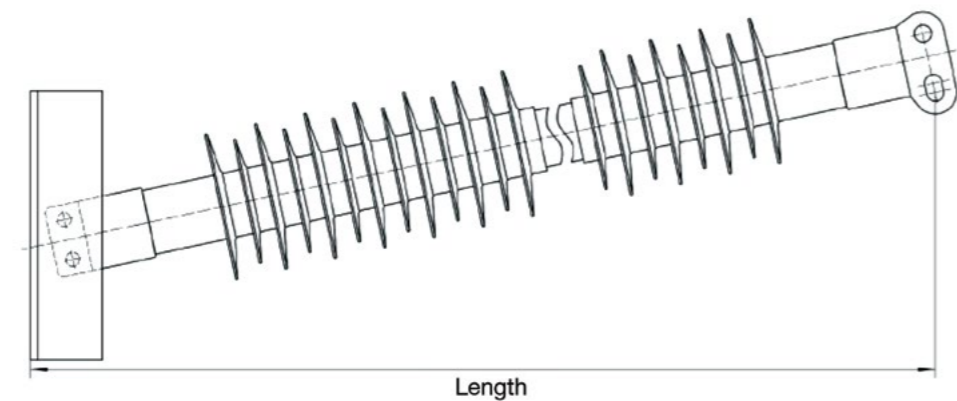
Lightning Impulse Withstand Voltage (kV)	Wet Power-Frequency Withstand Voltage (kV)	Weight (kg)
75	28	1.6
230	95	7.6
265	100	8.2
325	140	13.2
550	230	18.5
550	230	22.5
650	275	31
1000	395	46.5
1000	395	62
1000	395	100



### Composite Horizontal Line Post Insulator Table

#### Composite Horizontal Line Post Insulators – 10kN-14kN

PLP Part Number	Rated Voltage (kV)	SCL (kN)	Length (mm)	Nominal Creepage Distance (mm)	Arcing Distance (mm)
I-HLPC-69-10	69	10	960	1900	730
I-HLPC-138-10	138	10	1350	3400	1130
I-HLPC-138-16	138	16	1350	3400	1130
I-HLPC-230-10	230	10	2200	6125	1980
I-HLPC-230-14	230	14	2200	6125	1980



Lightning Impulse Withstand Voltage (kV)	Wet Power-Frequency Withstand Voltage (kV)	Weight (kg)
400	180	21
600	250	27
600	250	32
1050	460	44
1050	460	54



#### Range of End Fittings for Composite Line Post Insulators





PLP's precision-engineered products and technical services support critical infrastructure networks across the energy and communications sectors.

Trusted by utility providers, our solutions deliver proven performance and long-term reliability.

Operating as a united global organisation, PLP delivers high-quality products and unparalleled service.



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