

Award Winning
Product
Innovation &
Design

//High-density
polyethylene
Insulators



Allied**Insulators**

High Density Polyethylene Insulators Range

Allied Insulators are delighted to offer their new range of distribution Polymer Pin Insulators developed and manufactured from high-density polyethylene (HDPE). The hydrophobic nature of HDPE coupled with the extended creepage distance design suits all environments and especially polluted environments such as salty coastal area and tropical climates. The insulator was developed utilising the latest 3D design software and manufacturing technology plus extensive material development and product testing.



HDPE insulators have the following advantages over traditional porcelain insulators and are rapidly becoming the insulator of choice for electricity distribution companies:

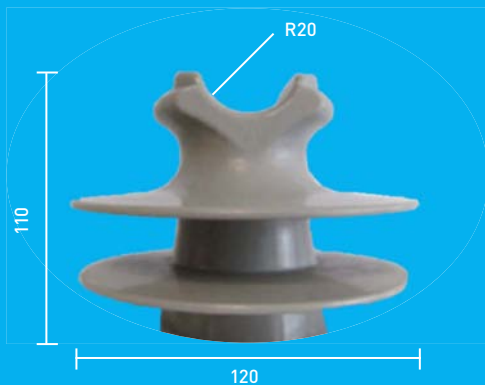
- Excellent Track-Resistance
- Excellent Chemical Resistance
- Hydrophobic (moisture repellant surface)
- Unbreakable and Light Weight
- Easy Handling and Installation
- Low Initial Cost & Long Service Life
- High Impact Resistance (Anti Vandal)
- 100% Recyclable
- Rapid Manufacturing Time
- Void Free Manufacturing
- High Anti-torsion Properties

Furthermore the hydrophobic nature of the material drastically reduces the leakage currents and touch potential issues on the supporting structure/pole.

A range of insulators is available from 15kV to 36kV, please see overleaf for further details and specifications. We can supply to ANSI, IEC or British Standard and offer a range of standard ANSI & BS 3288 Pin hole diameters.



ANSI 55-3 (C Neck)

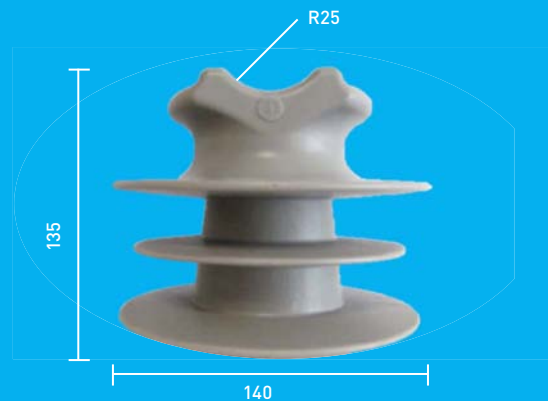


Mechanical & Electrical Properties

Creepage Distance	180mm
Cantilever Strength	10kN
60 Hz Flashover Dry	60kV
60 Hz Flashover Wet	35kV
Impulse Flashover Pos	100kV
Impulse Flashover Neg	125kV
Puncture Voltage	160kV
RIV	$\leftarrow 10\mu\text{V}$

Pin Hole \emptyset ANSI 1" or BS3288 Fig 16

ANSI 55-4 (F Neck)

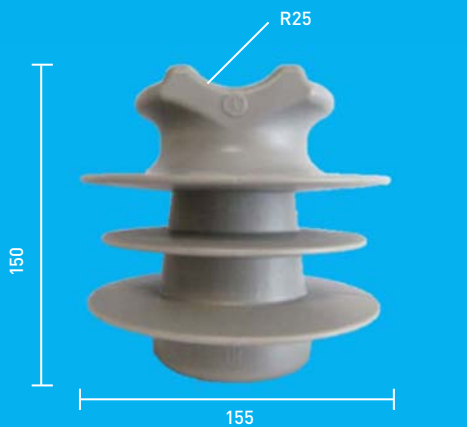


Mechanical & Electrical Properties

Creepage Distance	300mm
Cantilever Strength	10kN
60 Hz Flashover Dry	80kV
60 Hz Flashover Wet	45kV
Impulse Flashover Pos	125kV
Impulse Flashover Neg	190kV
Puncture Voltage	180kV
RIV	$\leftarrow 10\mu\text{V}$

Pin Hole \emptyset ANSI 1" or BS3288 Fig 16

ANSI 55-5 (F Neck)



Mechanical & Electrical Properties

Creepage Distance	400mm
Cantilever Strength	10kN
60 Hz Flashover Dry	90kV
60 Hz Flashover Wet	60kV
Impulse Flashover Pos	140kV
Impulse Flashover Neg	200kV
Puncture Voltage	180kV
RIV	$\leftarrow 10\mu\text{V}$

Pin Hole \emptyset ANSI 1" or BS3288 Fig 16

ANSI 55-6 (F Neck)



Mechanical & Electrical Properties

Creepage Distance	535mm
Cantilever Strength	10kN
60 Hz Flashover Dry	105kV
60 Hz Flashover Wet	70kV
Impulse Flashover Pos	155kV
Impulse Flashover Neg	200kV
Puncture Voltage	200kV
RIV	$\leftarrow 10\mu\text{V}$

Pin Hole \emptyset ANSI 1" or BS3288 Fig 16



OUR CORE VALUES

Innovation

Employing pioneering technologies to drive efficiencies and push performance frontiers.

Integrity

Matching our behaviour to our words and taking responsibility for our actions.

Quality

Dedicated to continuous improvement to exceed customer expectations in all our activities.

Agility

Flexibility in our approach to adapt with the changing demands of the industry.

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