Composite Insulator

Composite Insulator QRCode

Address	No.9 Jingwei 10th Rod,Jinghe Industrial Zone,Xi'an,710204,China
Contact Person	Lydia Zhang
Mobile Number	18792660323
Email	taporelzhang@gmail.com

What is Composite Insulator?

A composite insulator is a special insulation control component that plays an important role in overhead transmission lines. There are many types of polymer insulators.

What is Composite Insulator Made of?

Composite insulator is also called synthetic insulator, non-ceramic insulator, polymer insulator, rubber insulator, etc. The main structure is generally composed of umbrella skirt, FRP core bar and end fittings. The umbrella skirt is generally made of organic synthetic materials, such as ethylene propylene rubber, high temperature vulcanized silicone rubber, etc.; the FRP core bar is generally reinforced with glass fiber and based on oxidized resin; the end fittings are usually carbon steel or carbon structural steel coated with hot zinc aluminum.

Types of Composite Insulator (Types of Insulators And Their Applications)

Composite insulator can be divided into: composite suspension insulator, line post composite insulator, pin type composite insulator, post composite insulator, composite railway insulator, composite hollow insulator.

Advantages of Composite Insulator

Composite insulator is small in size, light in weight, light in structure, easy to transport, easy to install and easy to maintain.

The composite insulator has good fouling resistance and strong fouling flash voltage resistance. Its wet

withstand voltage and fouling resistance voltage are 2 to 2.5 times of that of porcelain insulator with the same creepage distance. No need for cleaning and safe operation in heavily polluted areas.

Polymer insulators have superior electrical properties and high mechanical strength. Polymer insulators have good tensile and flexural strength, 2 times higher than ordinary steel and 8-10 times higher than high-strength porcelain materials, which effectively improves the reliability of safe operation.

It has good waterproof performance. Its overall structure prevents internal insulation from moisture. It does not require preventive insulation monitoring tests or cleaning, thus reducing the workload of daily maintenance.

Polymer insulators have good sealing performance and high resistance to electrical corrosion.

Polymer insulators have high impact and shock resistance, good resistance to brittleness and creep.

Polymer insulators have high bending strength, high torsional strength. It enables them to withstand internal pressure. And can be used in combination with porcelain insulators and glass insulators.

For more details, please visit https://www.eqlic.com/detail/composite-insulator-china-356194