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Chapter 2

Composite Insulator Types

2.6 Post Insulator

By Orient Power

Post Insulator



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Composite post insulator:

Like most of composite insulator, post insulator main components are fiber glass core, silicone rubber and end fittings.

Composite post insulator can be used for substation, switchgear and electrical apparatus.

Post insulator if use in the substation, also called the station post insulator.

- ✧ The core is use of epoxy reinforced fiberglass.
- ✧ Outer insulating material: high temperature vulcanized silicone rubber.
- ✧ End fitting also can be called flange.

Standard for composite post insulator:

- ✧ IEC62231
- ✧ ANSI C29.19

Composite post insulator voltage include:

15kV, 25kV, 36kV, 45kV, 52kV, 69kV, 72kV, 110kV, 132kV, 169kV, 220kV, 245kV, 345kV, 400kV, 500kV.

Stacks of station post insulators:

Station post insulators can be assembled together by several stacks according to the voltage, normally one stack under 110kv, two stacks for 220kv, three stacks above 330kv, four stacks above 500kv.

Composite post insulator cantilever strength have :

4kN, 6kN, 8kN, 10kN, 12kN, 12.5kN, 16kN.

Post insulator for electrical apparatus:

The small size and low cost and good performance of composite post insulator used on electrical apparatus makes it a replacement of traditional porcelain insulators.