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Chapter 1

Pin Insulator Definition

1.1 Pin type insulator definition

By Orient Power

Pin type insulator definition



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Definition of pin type insulator:

A pin insulator is an insulator which is used for rigid mounting on a separable pin.

Pin type insulator voltage range can be from 6KV to 36KV, mainly used in the distribution line.

Voltage class for pin type insulator:

- ✧ 6KV (seldom now)
- ✧ 10KV,20KV (China class)
- ✧ IEC:11KV/12KV,22KV/24KV,33KV/36KV
- ✧ ANSI:15KV,25KV,35KV

Pin type insulator can be divided into porcelain pin insulator and polymer pin insulator according to the material.

Types of porcelain pin type insulator:

- ✧ ANSI55-1, ANSI55-2, ANSI55-3, ANSI55-4, ANSI55-5, ANSI55-6, according to ANSI C29.5
- ✧ ANSI56-1, ANSI56-2, ANSI56-3, ANSI56-4, ANSI56-5 according to ANSI C29.6
- ✧ P-11-Y, P-15-Y, P-22-Y, P-33-Y, according to IEC60383 and BS137

Color of pin type insulator:

- Porcelain: brown, white, grey, gray
- Composite: red, grey, gray

Polymer pin insulator usually have the following types:

- ✧ Tie top
- ✧ Clamp type
- ✧ Removable stud type

Pin type insulator is assembled with the spindle and is used on the cross arm, and the cross arm can be divided into wooden cross arm and steel cross arm.

Long spindle is used on the wooden cross arm, short spindle is used on the steel cross arm,

Semi-conductor glaze is applied for the porcelain pin type insulators.