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Chapter 1

Post Insulator Definition

1.3 Post insulator definition

By Orient Power

Post insulator definition



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The definition of post insulator

Post insulator is always called solid core station post insulator, post insulator is extensively used in station and substation. The main function of post insulator is insulator from earth or from another live part.

The material of post insulator

We can classify the post insulator into two types by different material:

- Porcelain/ceramic post insulator
- Composite/silicone rubber/polymer post insulator

Color

Post insulator has various colors to meet different customers demand

Porcelain insulator: brown, white, grey

Composite insulator: red, grey

Two types for post insulator

- Normal type
- anti-pollution type

Post insulator standard

Post insulator manufactured according to IEC, ANSI, BS and other standard.

- **IEC273 standard**

Cantilever strength: 4kN, 6kN, 8kN, 10kN, 12.5kN, 16kN

Lightning impulse withstand voltage: 60kV, 95kV, 125kV, 150kV, 170kV, 200kV, 250kV, 325kV, 450kV, 550kV, 650kV, 750kV, 950kV, 1050kV, 1175kV, 1300kV, 1425kV, 1550kV, 1800kV, 1950kV.

- **ANSI C29.9 standard**

ANSI C29.9 standard including: TR205, TR208, TR210, TR214, TR216, TR286, TR288, TR308, TR316.....

