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Chapter 3

Suspension Type Insulators

3.2 Dead end insulator

By Orient Power

Dead end insulator



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Dead end insulator usually means the polymer dead end insulator.

Polymer dead end insulator is used for dead end structures which are used where the transmission line either ends to follow a substation or when it turns through a large angle.

The end fitting for dead end insulator is clevis and tongue, the material usually is malleable iron, ductile iron, steel, aluminum, bronze or brass and so on.

The voltage for polymer dead end insulator has:

15kv, 25kv, 35kv, 46kv, 69kv.

Reference Standard for polymer dead end insulator:

- ✧ ANSI C29.13
- ✧ IEC61109

Tests for composite dead end insulator:

- ✧ Low frequency dry flashover test
- ✧ Low frequency wet flashover test
- ✧ Critical impulse flashover test-positive and negative
- ✧ Radio influence voltage

Advantage for polymer dead end insulator:

- ✧ High strength-to-weight ratio
- ✧ Excellent hydrophobicity
- ✧ Lightweight and shatter resistant
- ✧ Low profile for compact construction