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Chapter 2

Composite Insulator Types

2.3 Dead End Insulator

By Orient Power

Dead End Insulator



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Components of composite dead end insulator :

Composite dead end insulator is made of epoxy reinforced fiber glass core, high temperature vulcanized silicone rubber weather sheds and metal end fittings.

The composite dead end insulator voltage is up to 69kv.

Application for composite dead end insulator:

Composite insulator dead end type 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 composite dead end insulator is in line with the conductor and under tension.

The common voltage for composite dead end insulator is: 15kv, 25kv, 35kv, 46kv, 69kv.

End fitting for composite dead end type:

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

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

Composite dead end insulator standard is according to IEC61109 and ANSI C29.13, Orient also can do it as per customer's requirements.