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# **Chapter 4**

## **Suspension Insulator Coupling Method**

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4.5 Clevis and tongue insulator-T&C

**By Orient Power**

# Clevis and tongue insulator- T&C



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Common type for suspension insulator.

porcelain clevis and tongue insulator

polymer T&C insulator

**Porcelain clevis & tongue insulator range:**

10KV~1000KV

**Types of ceramic clevis and tongue insulator:**

ANSI52-2,ANSI52-4,ANSI52-6, U70C

**Mechanical strength for porcelain clevis and tongue insulator:**

40KN,70KN, 80KN, 90KN, 100KN, 120KN, 160KN, 210 KN,300KN

**Polymer T&C insulator:**

Polymer T&C insulator also called the composite dead end insulator. 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 T&C insulator is: 15kv, 25kv, 35kv, 46kv, 69kv.

**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

More information can be found on Orient insulator pdf technical files.