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# Chapter 2

## Composite Insulator Types

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### 2.1 Suspension insulator and long rod insulator

**By Orient Power**

# Suspension insulator and long rod insulator



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## Application for composite suspension insulator and long rod insulator:

Composite suspension insulator and long rod insulator are used in overhead transmission line or distribution line. And the voltage can be AC or DC.

Composite long rod and suspension insulator is from 10kV to 1000kV.

## Components of composite suspension insulator and long rod insulator:

- ✧ Fiber glass core
- ✧ Silicone rubber
- ✧ End fittings

## Difference between suspension insulator and long rod insulator:

**Suspension insulator:** provide suspension strength on the tower; suspend the conductor on the lines with suspension clamp. Therefore, suspension insulators are named by the function of the composite insulator.

**Long rod insulator:** long rod insulator means the whole insulator is a long size, vs the insulator string by porcelain insulators and glass insulators. Long rod insulator is named by the shape of the composite insulator, since all composite insulators are a single one, and its length is according to the insulator voltage, therefore, all composite suspension insulators can also be called composite long rod insulators.

Orient composite suspension insulator produced according to IEC61109 and ANSI C29.12 and other international standards, also we can design according to customer's requirements.