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# Chapter 1

## Insulator Definition

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### 1.6 Insulator Usage

**By Orient Power**

# Insulator Usage



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## Insulator Usage:

The basic functions of insulator are insulating, supporting and fixing conductor. Each type insulator also has different functions for the different operation condition.

## Insulator Usage Classification:

- **For Overhead Power Lines:**
  - ✚ As Per Voltage: Low voltage, medium voltage and high voltage overhead transmission and distribution lines
  - ✚ As Per Materials of Poles: Wood poles, steel poles, telegraph poles, concrete poles, steel power towers
  - ✚ As Per Installation Site: wooden / steel crossarm, straight line, anchor towers, dead-end towers ...
- **For Electrical Apparatus:** Transformer, switchgear, drop out cutout, surge protectors
- **For Railways:** High-speed rail, train, city subways, engine, tunnels of electrified railway, railway traction lines, small railway tunnel ...
- **For Substations:** Substation, power plants

## Insulator Usage in Functions:

**Functions:** Suspension, tension, insulation, supporting, protection, and so on

You can visit Orient Power website for more details about insulator usage.