Chapter 1

Insulator Definition

1.8 Insulator Specification

By Orient Power
Insulator Specification

**Insulator type/application**
- Disc type insulators are in the shape of a disc.
- High voltage insulators are a special type normally used in power transmission and distribution lines.
- Lightning rod insulators are used to protect lightning rods.
- Long rod insulators are in the shape of a cylinder.
- Low voltage insulators are a special type of insulator normally used in power distribution lines.
- Pin type insulators are screwed onto a bolt.
- Post insulators are mounted with metal bolts on the flanges instead of having a thread.
- Transmission line insulators used in power transmission lines.

**The Performance of insulator specification**
- Basic Insulation Level (B.I.L.) is the capacity of an insulator to withstand a specific voltage with full required range of ambient operating temperature

**The standards of insulator specification:**
- **IEC**— The International Electrotechnical Commission (IEC) is a global, non-profit organization that develops and maintains voluntary quality, safety, and performance standards for electrical materials, products, and systems
- **ANSI**— The American National Standards Institute (ANSI) is the administrator and coordinator of the U.S., private-sector, voluntary standardization system.
- **GB/T**— National Standards (GB, GB/T): Regulatory documents approved and issued by the national standardization authority.