Chapter 5
Composite Insulator Design

5.3 Insulator Drawing

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Composite insulators have many advantages over the ceramic insulators such as good performance in contaminated environment, light weight, easy handling, so now it is widely used.

**Composite insulator components are mainly:**

- Core: is made of glass fibers
- Housing
- Weather sheds
- End fitting:
- Coupling zone
- Interface

An insulator drawing should be according to the above parts and illustrate them specifically.

**Insulator drawing types:**

- Insulator production drawing: with detailed dimensions
- Insulator mould drawing: with mould components dimensions
- Product drawing: with main parameters and dimensions for customers

The above 2D drawings can also be designed to 3D drawings to see more clearly before the products are made.

**Insulator drawing contents:**

- Insulator components, Dimensions, Tolerances
- Technical parameters
- Edition, scales
- Design person, approval person, drawing date
- Company name, Drawing number, product name
- Other necessary things needed