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Chapter 2

Insulator String

2.2 Strain Insulator String

By Orient Power

Strain Insulator string



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✚ Strain insulator string definition:

- The strain insulator string will be used when there is a dead end or there is a sharp corner in transmission line. The line has to sustain a great tensile load of conductor or strain
- Strain insulator string is used in the horizontal direction.

✚ Strain insulator string application:

- A strain insulator string has considerable mechanical strength as well as the necessary electrical insulating properties.
- When the wire cross-section is below 185mm, the single tension insulator string will be used.
- When the cross section of the wire is larger or there is a large span wire tension, the double or triple tension insulator string can be used.

✚ Strain insulator string types:

- Porcelain strain insulator string
- Glass strain insulator string
- Silicone rubber strain insulator string

Strain insulator string normally has higher tension strength than the suspension insulator strings which are used on the same transmission lines.

✚ Strain clamps:

Tension insulator string will be assembled together with the strain clamp, bolted strain clamp for distribution lines, compression strain clamp for transmission lines.