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Chapter 3

Suspension Type Insulators

3.1 Strain insulator

By Orient Power

Strain insulator



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A strain insulator is an electrical insulator that is designed to work in mechanical tension (strain), to withstand the pull of a suspended electrical wire or cable. They are used in overhead electrical wiring, to support radio antennas and overhead power lines.

A strain insulator may be inserted between two lengths of wire, to isolate them electrically from each other while maintaining a mechanical connection, or where a wire attaches to a pole or tower, to transmit the pull of the wire to the support while insulating it electrically.

Strain insulators were first used in telegraph systems in the mid 19th century.

Application for strain insulator:

- ✧ radio antennas
- ✧ guy-wires
- ✧ overhead power lines

The strain insulator is usually in physical tension.

Types of strain insulator:

- ✧ Porcelain strain insulator
- ✧ Silicon rubber strain insulator

Porcelain suspension insulator is usually used by insulator string, so when it's use in the horizontal direction, then should have enough tension strength, also is called strain insulator.

Orient can design the insulator according to customer's requirements, more information, welcome to visit Orient power website.