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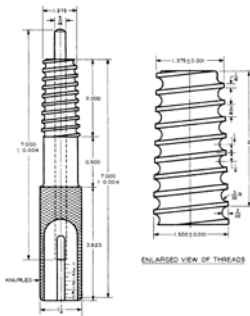
Chapter 2

Pin Insulator Properties

2.2 Pin insulator thread types

By Orient Power

Pin insulator thread types



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Porcelain pin insulator usually matches with the spindle and fixed on the cross arm.

Thread types of ceramic pin insulator:

- ✧ Zinc sleeve, BS standard
 - ✧ Porcelain thread, most is ANSI Standard
- As the porcelain pin insulator have different thread types, so it's also match with different spindle.

Types of spindle:

- Steel head spindle
- Lead head spindle
- Plastic head
- Pilot spindle

Usually, the BS standard zinc sleeve matches with the steel head spindle and ANSI standard matches with the lead head spindle.

The steel head spindle can be divided into big steel head spindle (diameter is 27.8mm) and small steel head spindle.(diameter is 18.3mm).

Pinhole gaging test:

Fifteen insulators shall be selected at random and gaged with a gage similar so that shown in left picture. The insulators shall be tested in accordance with 5.6.2 of ANSI C29.1-1982. The clearance between the top of the gage and the crown of the pinhole cavity shall be not less than 1/8 inch nor more than 3/4 inch. The number of turns required to disengage the insulator from the gage shall average not less than 3-1/2 for the entire sample nor be less than 3 for any one insulator. If more than one insulator fails to meet this requirement, thirty additional insulators shall be selected at random and gaged. Failure of more than a total of three insulators from both the first and second samples shall constitute failure of the lot to meet the requirements of this standard.

Detailed thread dimension can be found on the standard of porcelain insulators.