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# **Chapter 6**

## **Composite Insulator Testing**

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### **6.1 Tests on interfaces and connections of end fittings**

**By Orient Power**

## Tests on interfaces and connections of end fittings



**Orient Power**

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## Samples preparing:

Three insulators assembled on the production line shall be tested. The insulation length (metal to metal spacing) shall be not less than 800 mm. Both end fittings shall be the same as on standard production insulators. The end fittings shall be assembled so that the insulating part from the fitting to the closest shed shall be identical to that of the production line insulator. If spacers, joining rings or other features are used in the insulator design (notably for longer insulators), the sample shall include any such devices in a typical position.

## Types of end fittings of composite insulator:

- ✧ Socket and ball
- ✧ Clevis and tongue
- ✧ Y clevis
- ✧ Eye ball and so on.

## Main tests on interfaces and connections of end fittings

- ✧ Pre-stressing – Sudden load release pre-stressing, Thermal-mechanical pre-stressing
- ✧ Water immersion pre-stressing
- ✧ Verification tests
- ✧ Visual examination
- ✧ Steep-front impulse voltage test
- ✧ Dry power-frequency voltage test

More composite insulator information, you can visit Orient power website.