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Chapter 6

composite insulator testing

6.6 test types in the standard

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test types in the standard



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Classification of test type in the standard:

- ✧ Design test
- ✧ Type test
- ✧ Sample test
- ✧ Routine test

Design test:

- ✧ A composite insulator design is defined by the following elements:
- ✧ Materials of the core, housing and their manufacturing method
- ✧ Material of the end fittings
- ✧ Layer thickness of the housing over the core
- ✧ Diameter of the core

Type test:

The type test is intended to verify the main characteristics of a composite insulator, which depend mainly on its shape and size. They also confirm the mechanical characteristics of the assembled core. They are made on insulators whose class has satisfied the design test.

Sample test:

The sample test is for the purpose of verifying other characteristics of composite insulators, including those which depend on the quality of manufacture and on the material used. They are made on insulators taken at random from lots offered for acceptance.

Routine test:

The aim of these test is to eliminate composite insulators with manufacturing defects. They are made on every composite insulator offered for acceptance.