COMPOSITE STRING HIGH VOLTAGE INSULATOR type CS 160
with sheds made of silicone elastomer

Specification

Composite string insulator type CS160 is assigned for high voltage overhead power networks for rated voltage 220 kV and mechanical load 160 kN for III pollution zone. This type of insulators is specially recommended in polluted areas, wet climates (e.g. in climates of high salt humidity) with variable temperature during one day and difficult mountain regions.

Advantages

In comparison with porcelain insulators composite insulators have advantages as below:

- higher mechanical load,
- several times lower weight,
- higher resistance to environmental hazard,
- higher resistance to vandalism.
Composite string insulator CS160C19LC19L-1050/6200

Technical data:

- Standard mechanical load: 160 kN
- Routine testing load: 80 kN
- Dry lightning impulse withstand voltage: 1050 kV
- Leakage distance: 6400 mm
- Wet power frequency withstand voltage: 460 kV
- Arcing distance: 2050 mm
- Connection distance: 2360 mm
- Number of sheds: 59
- Weight: 11.5 kg

Suggested application according to guidelines of IEC 61466-2 and 60815 standards – 220 kV network in areas of III pollution zone.

Basic materials of insulating structure are silicon rubber (LSR type) and glass-epoxy composite rod (glass roving ECR type). Insulator fulfills all requirements of IEC 61109 standard. Insulators fitted with T19N and C19N couplings we deliver request.

The fitting equipment produced by ZWSS Belos” SA is recommended for building insulators structures based on our insulators.