

11kV Composite Suspension Insulator

This 11kV composite suspension insulator is lightweight and compact for easy transport and installation. It offers high mechanical strength and good anti-pollution performance.



Overview

High-Performance 11kV Composite Suspension Insulator

This composite long rod suspension insulator is engineered for 11kV high-voltage transmission lines, particularly in areas prone to heavy pollution. Featuring a lightweight design and high mechanical strength, it offers a maintenance-free solution that is easy to transport and install. The silicone housing and core rod are bonded using advanced injection technology to ensure superior internal insulation and prevent interface breakdown.

Key Performance Metrics

Performance Metrics

11 kV

Rated Voltage

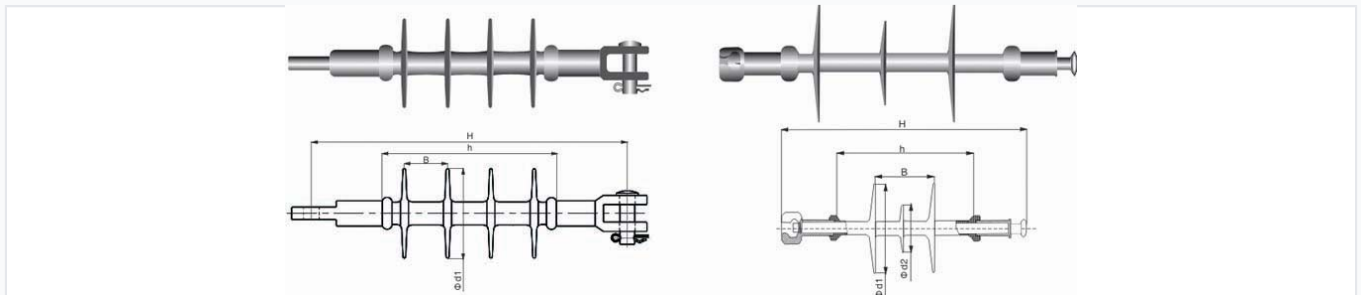
70 kN

Mechanical Tensile Load

110 kV

Lightning Impulse Voltage

Technical Specifications



Schematic diagram showing the structural dimensions and design of the 11kV composite insulator.

Technical Data Table

Model	Structural Height (mm)	Min. Arc Distance (mm)	Umbrella Diameter (mm)	Min. Creepage Distance (mm)	Wet Withstand Voltage (kV)
FXBW-11/70 (Type 1)	345±15	170	97	435	50
FXBW-11/70 (Type 2)	365±15	180	144	500	60

Design & Construction

Materials	Silicone Housing, Fiberglass Reinforced Polymer (FRP) Core Rod, End Fitting
Manufacturing Process	Complete injection technology ensures core rod and sheath adhesive without aperture.

Application & Standards

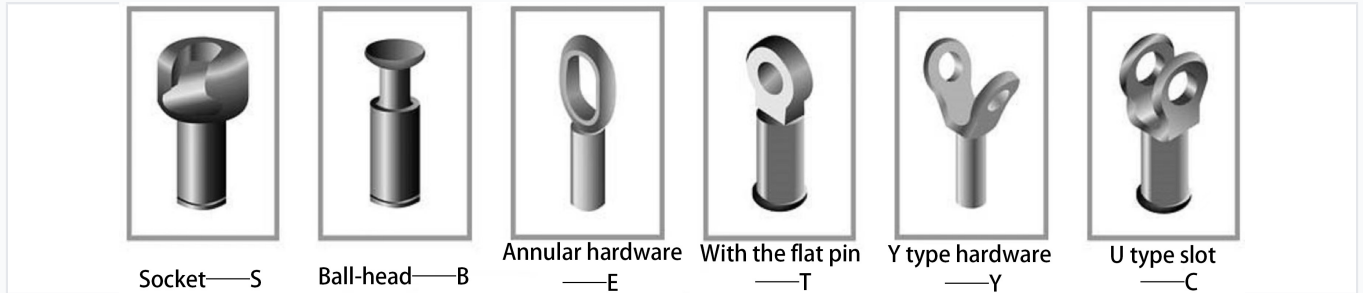
Suitable Environments

- High Voltage (HV) transmission lines
- Polluted areas
- Overhead lines and substations

Executive Standards

GB/T 19519-2014 • IEC 61109

Hardware Options



Various end fitting options including socket, ball-head, and U-type slot hardware for different installation requirements.

Available End Fittings

- Socket-S
- Ball-head-B
- Annular hardware
- Flat pin hardware
- Y type hardware
- U type slot hardware

Physical Properties

Available Colors	Red, Gray, Blue, Yellow
Reference Weight	1.2 kg - 1.6 kg