

Line Post Insulators ANSI 57-2

Line Post Insulators | Datasheet | Pingxiang Huahao Insulator Co., Ltd.



A porcelain line post insulator to ANSI 57-2 with a straight mounting design, used on overhead distribution lines and in substations to support conductors at fixed positions. The insulator provides mechanical support and electrical insulation for systems up to 35kV AC. Its design supports both dry and wet flashover performance and is suitable for urban and industrial environments with moderate pollution levels.

Specifications

Parameter	Value
ANSI Class	57-2
Diameter (D)	6 inches (152mm)
Height (H)	12 inches (305mm)
Leakage Distance	22 inches (559mm)
Dry Arcing Distance	9 1/2 inches (241mm)
Cantilever Strength	2,800 pounds (12.5kN)
Cantilever Strength Routine Test	1,000 pounds (5kN)
Type Application Voltage	35kV
Low Frequency Dry Flashover Voltage	110kV
Low Frequency Wet Flashover Voltage	85kV
Critical Impulse Flashover Voltage Positive	180kV
Critical Impulse Flashover Voltage Negative	205kV
Test Voltage RMS to Ground	22kV
Maximum RIV at 1000 kHz	100 microvolts

Key Benefits

- Straight mounting design allows rigid conductor positioning at poles and substations
- Cantilever strength of 2,800 pounds (12.5kN) supports conductor weight and wind loading
- 22 inches (559mm) leakage distance resists tracking in polluted and coastal environments
- Dry arcing distance of 9 1/2 inches (241mm) sets flashover performance for system voltage
- Routine proof test at 1,000 pounds (5kN) verifies mechanical integrity before shipment
- Radio influence voltage of 100 microvolts at 1000 kHz meets low EMI standards for urban areas

Application Scenarios

- Distribution line poles where conductors must be fixed at a rigid offset from the pole
- Substation busbar supports where conductor alignment and clearance are critical
- Urban feeders with moderate pollution levels requiring extended leakage distance

- Industrial zones with dust and moisture where tracking resistance is essential
- Replacements for existing ANSI 57-2 insulators in distribution systems

Materials

- Glazed electrical porcelain dielectric body
- Galvanized malleable iron or forged steel mounting cap and base fittings
- Portland cement bonding the metal fittings to the porcelain

Use Guide

- Verify the mounting base and cap dimensions match your pole or busbar hardware before ordering
- Use the 559mm leakage distance to assess performance in polluted or coastal zones
- Ensure the maximum working load does not exceed the 2,800 pound (12.5kN) cantilever strength including wind and ice
- Handle by the metal fittings and store on the pallet supplied to protect the porcelain body
- Inspect for glaze damage or cement cracks before installation

Certification: ISO 9001:2008 | Standards: GB ANSI BS DIN AS IEC | Design capability up to 500kV AC and 400kV DC. For a quotation email admin@huahaoinsulator.com with the class, coupling type, quantity and destination.