

Porcelain insulation outdoor termination (64/110 kV)

Product Descriptions

- The product uses high-strength porcelain sleeve which has the advantage of high mechanical strength, good stability, no aging, especially suitable for coastal and natural environment harsh areas.
- The product adopts the structure of big and small umbrella skirt, and the experiment has proved that this structure has excellent pollution resistance.
- It has a good sealing performance to prevent flooding, oil leakage and other possible defects.
- Porcelain insulator comes in two sizes. One specification is 1280mm high and 3150mm creepage distance, which is suitable for III-level dirty areas. The other specification is 1400mm high and the creepage distance is 3906mm, which is suitable for IV-level dirty areas.

Technical Requirements

- Only vertical installation, cannot be installed at a certain angle or inverted installation.
- The connector can be chosen as the compression or sheat bolt.
- When installing outdoor terminals, users need to provide assistance in erecting installation platforms and sheds and hoisting casing.



Technical Specifications

Area Of Application

Applicable cable cross-sections:	240~1600 mm ²
Max.system voltage:	126 kV
System rated frequency:	50 Hz
Elevation:	≤2000 m
Operation temperature;	-55 °C~45 °C
Cable Shield Style	Tape/wire/corrugated Al

Design Data

Height		1980±50 mm
Weight(excluding cable)		230 kg / 507.06 lbs
Composite insulator	Bending moment resistance	≥2000 kN
	Internal withstand pressure	2.5 MPa
	Breakdown pressure	2.8 MPa
Filling fluid(material)		PIB/Gel
Creepage distance		≥4050 mm
Permissible horizontal pull of connecting wire		≥2 kN
Storage temperature		0 °C~35 °C
Installation temperature		5 °C~35 °C

Electrical Test

Electrical Type Test (IEC 60840)

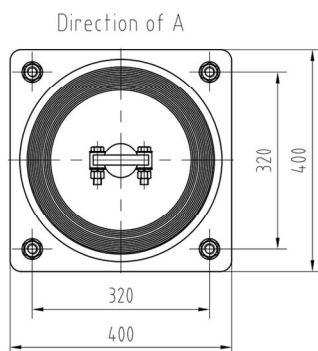
Heating cycle voltage	152 kV
Partial discharge test at ambient and elevated temperatures	No detctable discharge exceeding the declared sensitivity (114kV, 3.6pC)
Lighting impulse voltage 1.2 μs/50 μs	650 kV

Electrical Routine Test (IEC 60840)

AC withstand voltage	190 kV
Partial discharge test	No detctable discharge exceeding the declared sensitivity (114kV, 3.6pC)

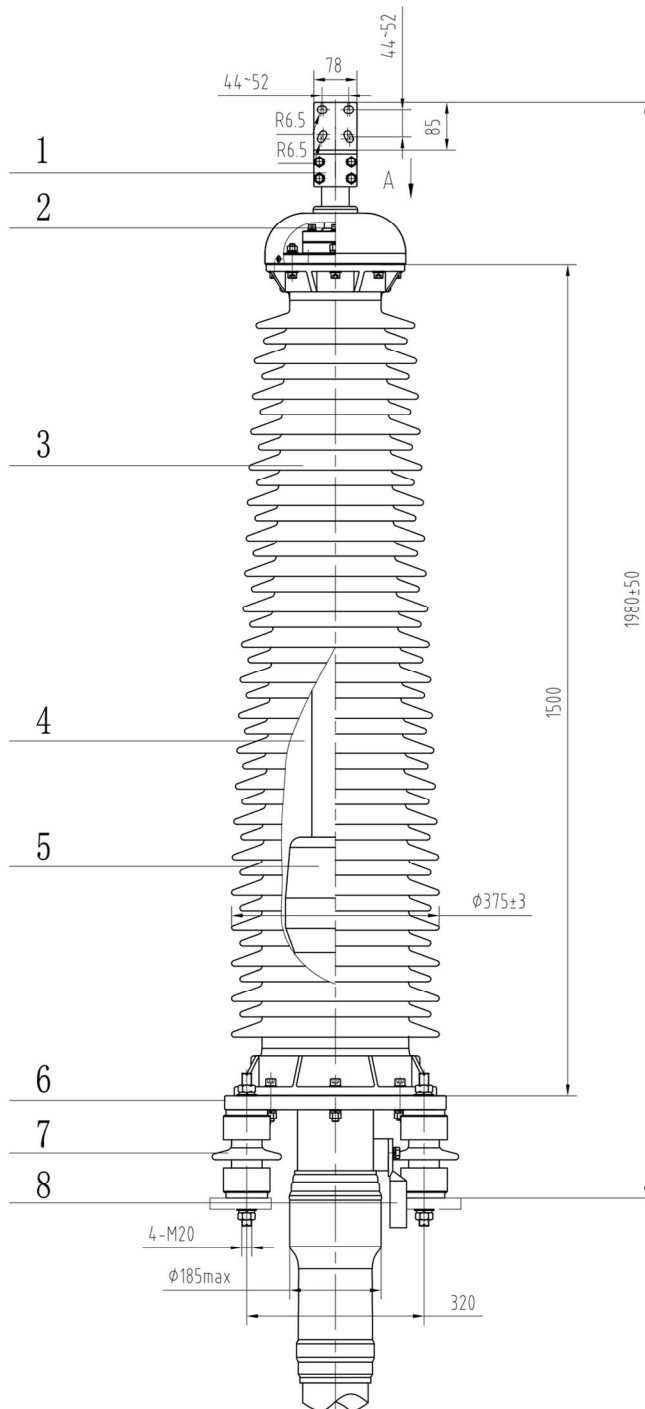
Structure Diagram

1. Palm
2. Conductor wire rod
3. Porcelain insulation
4. Filling fluid
5. Stress cone
6. End bell
7. Composite post insulator
8. Earthing point



Note:

1. Mass: 230kg approx.
2. Dimensions in mm.
3. The dotted line indicates the bracket and is not included in the product.
4. The thickness of palm is 14mm or 21mm.



DESIGN	Wu Jiaqi	DATE	2023.6.6	COMPANY NAME	Angelor(Jiangsu)Intelligent Electric Co. Ltd.
DWN	Wu Jiaqi	DATE	2023.6.7	NAME	110kV Porcelain insulation outdoor termination
CHK	Zhang Haitao	DATE	2023.6.12	DRAWING NUMBER	YJZWY4 64/110
APVD	Zhang Haitao	DATE	2023.6.12		
DRAWING MARK	MASS	SCALE			
		230.00kg	1:8		
VERSION NUMBER	Rv 01	REVISION NUMBER	-		