

Composite insulation outdoor termination (64/110 kV)

Product Descriptions

- Epoxy insulator is covered with silicone rubber umbrella skirt. Flexible composite insulator is filled with high-quality filling fluid. It is suitable for densely populated areas where electrical equipment is concentrated.
- The composite insulator is light in weight and convenient for transportation and installation.
- The product is safe and explosion-proof, which can ensure the safety of surrounding personnel and electrical equipment..
- The product has excellent hydrophobic characteristics, anti-creepage, arc resistance, weatherability and pollution resistance, and the external insulation is not easy to age.

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)		140 kg / 309 lbs
Composite insulator	Bending moment resistance	≥2000 kN
	Internal withstand pressure	1.6 MPa
	Breakdown pressure	2.0 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)

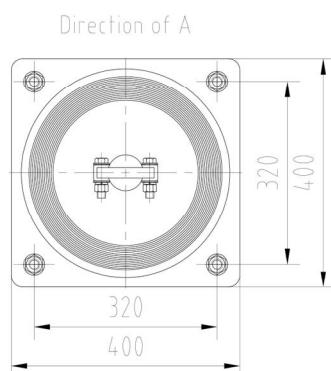
Heating cycle voltage	152 kV
Partial discharge test at ambient and elevated temperatures	No detectable discharge exceeding the declared sensitivity (114kV, 3.6pC)
Lighting impulse voltage 1.2 μs/50 μs	650 kV

Electrical Routine Test (IEC 60840)

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

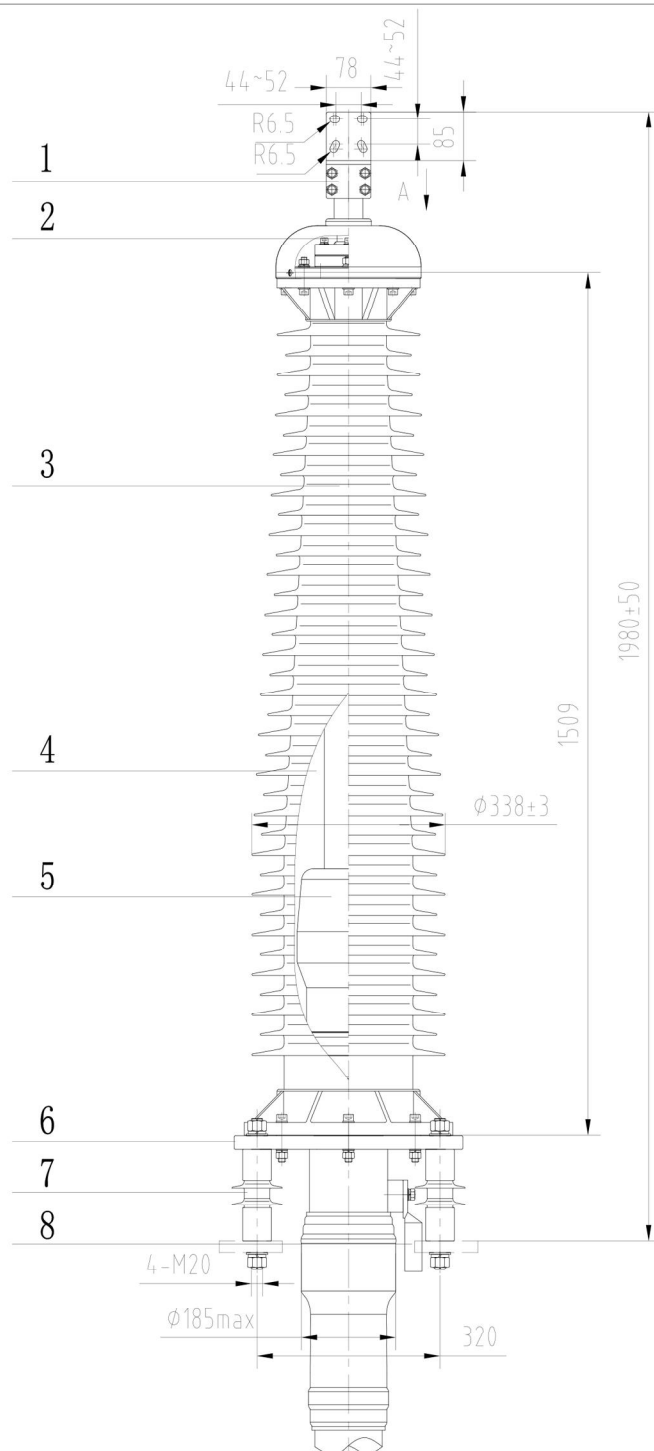
Structure Diagram

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



Note:

1. Mass: 150kg 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	2023.6.9	COMPANY NAME	Angelor(Jiangsu)Intelligent Electric Co. Ltd.
DWN	Wu Jiaqi	DATE	2023.6.9	NAME	110kV Composite insulation outdoor termination
CHK	Zhang Haitao	DATE	2023.6.12	DRAWING NUMBER	YJZW FY4 64/110
APVD	Zhang Haitao	DATE	2023.6.12		
DRAWING MARK		MASS	SCALE		
		150.00kg	1:11		
VERSION NUMBER:	Rv.01	REVISION NUMBER:	-		