

MKB

126 (O)

ARKASIL

Type

Maximum system voltage

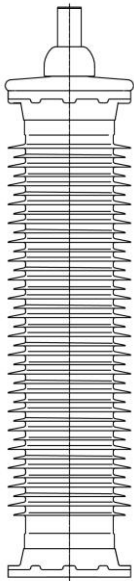
PDD-27-19-031

PRODUCT DESCRIPTION

High-voltage cable termination MKB 126 (O) is designed to terminate XLPE 64/110 kV high-voltage cable in outdoor conditions or indoor conditions. MKB 126 (O) could be used in indoor and outdoor conditions. MKB 126 (O) optionally could have optical fiber output.

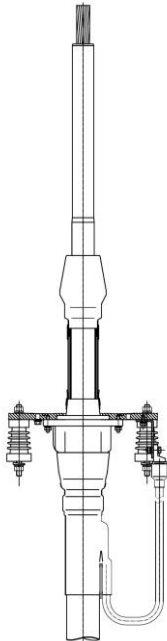
BASIC COMPONENTS

INSULATOR



- composite type of insulator with glass fiber epoxy tube and sheds made of silicone rubber with different creepage distances.
- shed color: light grey.
- top and bottom flanges glued and sealed.

CABLE END



- pre-molded and factory-tested stress cone.
- **compression bolt connector** (only for MKB 126 / MKB 126 O),
- **screw bolt connector** (only for MKB 126 B/ MKB 126 BO),
- **welding connection** (only for MKB 126 M/ MKB 126 MO),
- base plate.
- branch pipe.
- support insulators.
- seals and fixing materials.
- insulating compound.
- earth angle with hole for earth connections.

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AREA OF APPLICATION

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Maximum system voltage, kV	126
Cable conductor cross section, mm ²	185 ÷ 2000
Screen crossection, mm ²	35..400
Conductor material	Al or Cu depends on the cable
Maximum outer sheath diameter, mm	126
Maximum cable insulation diameter(prepared), mm	93

TECHNICAL DATA

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Electrical data:		
AC voltage withstand test	160 kV for 30 min	
Impulse withstand voltage (10+/10- impulses)	550 kV	
Partial discharge test	< 5 pC at 96 kV	
Maximum continuous service voltage, kV	126 kV	
Cable outer sheath with it`s outer layer insulation withstand voltage (1 min), kV	10 kV	
Rated current without correction factors, A	Limited by cable	
Rated current assessment of the correction factors, A	Limited by cable	
One second short circuit current phase – the land of cable, kA	Limited by cable	
One second short circuit current phase-phase of the cable, kA	Limited by cable	
Climatic data:		
Min/Max temperature for outdoor conditions	- 45°C/ + 50°C	
Highest allowable long-term cable insulation heating temperature, °C	+90 °C	
Highest insulation heating temperature	+250 °C	
Minimal creepage distance, mm	3460	4025
Insulator length, mm	1240	1240
Pollution level IEC 815	III	IV
Site altitude above sea level,m	<1000 m	
Nominal operating current	Limited by cable specification	
Short circuit current	Limited by cable specification	
Stress cone electrical routine test demands:		
AC voltage withstand test	190 kV for 30 min	
Partial discharge test	<5 pC at 114 kV	
Support insulator withstand voltages:		
AC voltage, kV	10	
DC voltage, kV	20	

**MKB****126 (O)****ARKASIL****Type** **Maximum system voltage****PDD-27-19-031****Mechanical data:**

Maximum allowed inclination with vertical	30 °, 45 °*
Approximate weight, kg	100
Maximum allowed force on top connector, N	3500 (horizontal)

*- special exploitation requirements

ALL TYPE TEST ACCORDING TO REQUIRMENTS

IEC 60840

MOUNTING

MKB 126 (O) must be mounted by trained/certified personnel. Mounting area must be protected from dust and moisture. Temperature in mounting tent should be from +10 to +40 C.

SHELF LIFE OF MKB 126 (O) COMPONENTS

Hollow core insulator	30 years
Stress-cone	5 years
Base plate	30 years
Cover	30 years
Branch pipe	30 years
Compressing plate	30 years
Pin	30 years
Earthing angle	30 years
Top bolt	30 years
Connector screws (in case of screw connector)	30 years
Connector cap	30 years
Sealing	5 years
Pin	30 years
Bolts, screws, studs, washers, nuts and other fasteners	30 years
O-Rings	5 years
Tinned copper connector	30 years
Spiral spring	30 years
Heat shrinkable tube	5 years
Tape 13	5 years
Tape 27	5 years
Tape 33	5 years
Mastic tape	2 years
Copper mesh tape	30 years
Silicon profile	5 years
Silicon grease	2 years
Additional materials for mounting	5 years
Welding wire (in case of connector for welding)	30 years
Compound	2 years
Materials for optical fiber output	30 years



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STORAGE AND TRANSPORTATION CONDITIONS

1. Cable accessories shall be stored and transported in original package with Arkasil SK LLC sealing. Sealing damage is restricted.
2. Storage conditions:
 - Temperature range +5..+40.
 - Average relative humidity – 60%.
 - Maximal relative humidity – 80% at 25 °C.
 - Indoor conditions only.
 - Package shall be protected from dust, rain, snow, fox, etc.
 - Aggressive environment (i.e. acids, bases, solvents) is restricted.
 - Stacking – see storage instruction.
3. Transportation conditions:
 - Covered trailer only (solid or tent with no direct sunlight).
 - Packages shall be fixed during transportation.
 - No strikes, shake and fallings are allowed.
4. Shelf life time of components is specified in the table above. Components should be replaced by new ones after shelf life expiration.