

72.5



Voltage class

Dry type cable termination MKBC 72.5 (300x300) has been designed for linking if HV underground cable lines with overhead lines or outdoor switchgears. Termination is suitable for an extruded XLPE high voltage cable with stranded Cu or Al conductor and Cu or Al multiwire screen. Base plate size – 300x300 mm. Minimum guaranteed creepage distance – 1850 mm. Maximum system voltage Um = 72.5 kV.

BASIC COMPONENTS:

- Pre molded and factory tested silicone rubber stress-cone with integrated field control element. No liquid or gas insulating medium inside.
- Self-supporting design.
- Cable sheath electrically insulated from cable screen.
- No maintenance throughout the entire operation period.
- Base plate with 300x300 mm interface dimensions.

TECHNICAL FEATURES:

TECHNICAL FLATORES:			
Maximum system voltage, (kV)	72.5		
Cable conductor cross-section range, (mm sq.)	185 ÷ 1600		
Prepared insulation diameter range, (mm)	3274		
Outer sheath diameter range, (mm)	up to 125		
Type test requirements:	•		
AC testing voltage, (kV)	90 kV throughout 30 min		
Lightning impulse testing voltage, (kV)	10 positive and 10 negative 5/50 μs impulses 325 kV		
Partial discharge level, (pC)	below 5 pC at 54 kV		
Nominal operating current, (A)	limited by cable specification		
Maximum short circuit current (kA, s)			
Environmental conditions:			
Minimum guaranteed creepage distance, (mm)	1850	2290	
Pollution level according to IEC 60815	III	IV	
Insulator routine test requirements:			
AC testing voltage, (kV)	90 kV throughout 30 min		
Partial discharge level, (pC)	below 5 pC 54 kV		
Pedestal insulator withstand vo	oltage:		
AC withstand voltage, (kV)	10 kV		
DC withstand voltage, (kV)	20 kV		
Mechanical restrictions:			
Inclination angle	up to 90°		
Approximate weight, (kg)	80		
Max mechanical load at top bolt (including intrinsic weight), (kN)	5 kN (transversal)		

ALL TYPE TESTS ACCORDING TO

IEC 60840

Arkasil

PDD-27-20-071



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Type MOUNTING

Voltage class

MKBC 72.5 has to be mounted by trained/certified personnel. Mounting site shall be protected from any dust and moisture. Temperature range at installation site+10°C..+40°C.

ADDITIONAL OPTIONS:

- Extended base plate size.
- Optical fiber outlet (O) or cable armoring termination.
- Main cable lug for screwing (B) of welding (M). Screen bundle cable lug with shearing bolts.
- Flexible design with no self-suppoting (H).

SHELF LIFE OF COMPONENTS:

Flexible insulator, insulator cap	5 years
Rigid supporting insulator, pedestal insulators	30 years
Base plate, cantilever, cable holder	30 years
Cable lugs	30 years
Kit of fasteners	30 years
Copper mesh tape	30 years
Mastic tape	2 years
Spring elements	30 years
HS tube	5 years
Self-adhesive tape, PVC tape and other winding materials	5 years
OF outlet components	30 years
Mounting consumables	5 years
Silicone paste	2 years
Welding wire	30 years

STORAGE AND TRANSPORTATION REQUIREMENTS OF KITS:

1. Kits and parts of MKBC 72.5 cable terminations shall be stored and transported in original package with intact Arkasil SK LLC label. Label damaging leads to warranty void.

- 2. Storage conditions for MKBC 72.5 cable terminations:
 - Temperature range +5 °C..+40 °C. Temperature shall be above dewpoint anywise.
 - Average relative humidity 60%.
 - Maximum relative humidity 80% at 25 °C.
 - Indoor storage conditions only.
 - Packages shall be protected from dust, rain, snow, fog, etc.
 - Aggressive environments (i.e. acids, bases, ozone, solvents) are restricted.
 - Piling according to storage instruction.

3. Transportation requirements:

- Solid trailer or tent with no direct UV-radiation.
- Boxes shall be firmly fixed throughout transportation.
- No falling, striking and excessive shaking is allowed.

4. Shelf life of MKBC 72.5 cable termination components is specified in the table above. Components with expired shelf life have to be replaced.