ARE4H5EE 18/30kV SK2 (SHOCK PROOF 2)

ARE4H5EE 18/30kV 1x240

DESCRIPTION

Single core cable with aluminium conductor, reduced thickness cross-linked polyethylene (XLPE) insulation, aluminium tape screen, double polyethylene (PE) based outer sheath. Longitudinal and radial watertightness, shock resistant.

Application:

Suitable for fixed installation indoor or outdoor laying in air or directly / indirectly buried, also in wet location. "Shock Proof" SK2 has a very good shock resistance characteristics. The two special outer sheaths provide an excellent protection against impact and mechanical abuse during the lifetime of the cable. "Shock Proof" SK2 cable performances has been evaluated against mechanical protection by the abrasion test and the impact test included in HD 620-10-13 standard. This type of cable can be directly buried without additional protections because it is comparable to an armoured cable.

Construction:

- Conductor:stranded, compacted, round aluminium Cl. 2 (IEC 60228)
- Conductor screen:extruded semiconducting compound
- Insulation:extruded cross-linked polyethylene compound (XLPE)
- Insulation screen:extruded semiconducting compound fully bonded
- Longitudinal watertightness:semiconducting water blocking tape
- Screen and radial watertightness:aluminium tape longitudinally applied (Nominal thickness: 0,2 mm)
- First sheath:extruded Polyethylene compound Colour: natural
- Second sheath:extruded Polyethylene compound Colour: red

Functional characteristics:

- Rated voltages Uo/U: 18/30 kV
- Max. operating temperature of conductor:90°C
- Max. short circuit temperature of conductor:250°C (max 5s)
- Max. short circuit temperature of screen:150°C
- Min. installation temperature:-25°C
- Max. tensile strength on the conductor during installation:50 N/mm²
- Min. bending radius during installation: 14 Dcable



STANDARDS

International HD 620; IEC 60502-2

National CEI 20-68

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CHARACTERISTICS

Construction characteristics	
Conductor material	Aluminum
Conductor shape	Round, stranded and compacted
Conductor flexibility	Class 2 acc. to IEC 60228
Material of the inner semi-conductor	Extruded semiconducting compound
Insulation	Extruded XLPE
Material of the external semi-conductor	Extruded semicond.compound-Fully Bonded
Material used for longitudinal water tightness	Semiconducting Swellable Tape
Screen	Aluminum Tape-Radial water tightness
Inner sheath	Exstruded PE compound
Colour	Natural
Outer sheath	Exstruded PE compound - Impact resistant
Sheath colour	Red
Dimensional characteristics	
Conductor cross-section	240 mm²
Number of phases	1
Conductor diameter	18.5 mm
Minimum insulation thickness	5.8 mm
Screen thickness	200 μm
Inner sheath thickness	2.0 mm
Nominal outer sheath thickness	2.0 mm
Nominal outer diameter	45.0 mm
Electrical characteristics	
Rated Voltage Uo/U (Um)	18 / 30 (36) kV