

# ARE4H5E 12/20kV SR/0,2 / F<sub>ca</sub>

ARE4H5E 12/20kV SR/0,2 1x95

Cables compliant with the requirements of the Construction Products Regulation “CPR (EU) n° 305/2011”

## DESCRIPTION

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

Cables compliant with the requirements of the Construction Products Regulation “CPR (EU) n° 305/2011”

Fire performance class: F<sub>ca</sub>

### Application:

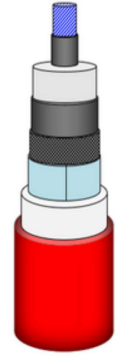
Suitable for fixed installation indoor or outdoor laying in air or directly / indirectly buried, also in wet location.

### 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)
- **Outer sheath:** extruded **Polyethylene** compound - Colour: **red**

### Functional characteristics:

- **Rated voltages U<sub>0</sub>/U:** 12/20 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/mm<sup>2</sup>
- **Min. bending radius during installation:** 14 D<sub>cab</sub>



## DECLARATION OF PERFORMANCE

F<sub>ca</sub>

## STANDARDS

International HD 620;  
IEC 60502-2

## 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
Outer sheath	Extruded PE compound
Sheath colour	Red

### Dimensional characteristics

Conductor cross-section	95 mm <sup>2</sup>
Number of phases	1
Conductor diameter	11.5 mm
Minimum insulation thickness	4.5 mm
Screen thickness	200 µm
Nominal outer sheath thickness	1.9 mm
Nominal outer diameter	29.4 mm

### Electrical characteristics

Rated Voltage U <sub>o</sub> /U (Um)	12 / 20 (24) kV
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