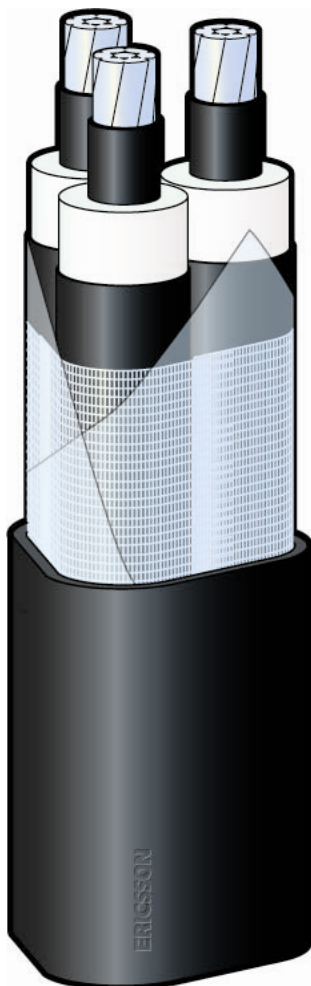


AXCES 6/10(12)kV 3x70/16

Product information



Design IEC 60502-2, SS 424 14 16

Conductor

Aluminum, circular stranded.
Nominal cross sectional area: 70mm².
Diameter, nominal: 9,9mm.

Inner conductive layer

Extruded PE

Insulation

XLPE, Triple extruded, dry cured vulcanized.
Nominal thickness: 3,4mm
Diameter over insulation approx: 17,0mm

Outer conductive layer

Extruded PE, easy strippable

Screen

Band of woven copper threads.
Nominal cross sectional area, 16mm²

Tape

PETP-PE tape

Sheath

Black LLD PE
Nominal thickness: 2,4mm
Outer diameter: 41mm
Outer circumscribed circle diameter: 44mm
Weight: 1,5kg/m
Density: 1,35kg/dm³

Embossed

"ERICSSON N T AXCES 6/10(12)kV
3x70/16mm² (Year of manufacturing YYYY)
+ meter marked

Application

Self suspending 3-core cable, for use as aerial cable on poles, and in the ground and water.

Technical data

Electrical

Number of conductors x cross sectional area (mm ²)	3x70/16		
Rated voltage U ₀ /U/U _M	6/10(12)kV		
Rated current according to IEC287		In air 25°C	In the ground 15°C
maximum conductor temperature	65°C	160A	160A
90°C		190A	190A
as self supporting suspending cable	65°C	160A	-
Conductor resistance max. at 20°C	0,44Ω/km		
Inductance	0,30mH/km		
Capacitance	0,29μF/km		
Earth fault current	1,8A/km		
Max. short circuit current (1 sec.) at 250 °C end conductor temp.	8,0kA		
Max. short circuit current, for the screen	3,2kA		

Installation

Minimum bending radius	
at laying, approx.	520mm
at fixed position, approx.	250mm
Min. temp. at laying approx.	-20°C

Data for calculation in pole-setting systems (see handbook)

Area	210mm ²
Diameter	41mm
Q _c , Cable weight	1,5kg/m
E _{ik} , Elasticity-modulus initial, before ice load	55 000N/mm ²
E _p , Elasticity-modulus after permanent creeping, (after ice load)	64 000N/mm ²
τ _p , Permanent elongation or creeping	0,7%
Coefficient of linear expansion per °C	23 x 10 ⁻⁶
Definitude strain 0°C	42N/mm ²
Maximum force on cable in calculations	27kN
Approximate fast break load for cable	>55kN
Approximate long term break load for cable	>49kN

We reserve the right for alterations due to continual product development and/or changes in standards.