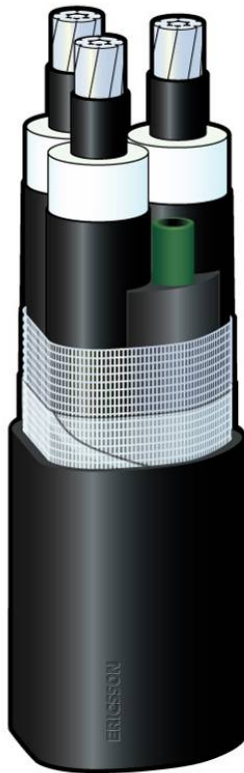


AXCES-O 6/10(12)kV 3x70/16

Product information



Application

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

Design

IEC 60502-2, SS 424 14 16*

Conductor

Aluminium, 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

Microduct

Designed for installation of standard Micronet
24-fiber cable
Outer/Inner duct-diameter, 8/6mm
Bedded in a profile of semi conductive PE

Tape

PETP-PE tape

Sheath

Black LLD PE, nominal thickness: 2.4mm
Outer diameter: 42mm
Outer circumscribed circle diameter: 45mm
Weight: 1.6kg/m
Density: 1.3kg/dm³

Embossed

”ERICSSON AB AC3
AXCES-O 6/10(12)kV 3x70/16 (Year of
manufacturing YYYY)” + meter marked

Technical data

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

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	42mm
Q _c , Cable weight	1.6kg/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.