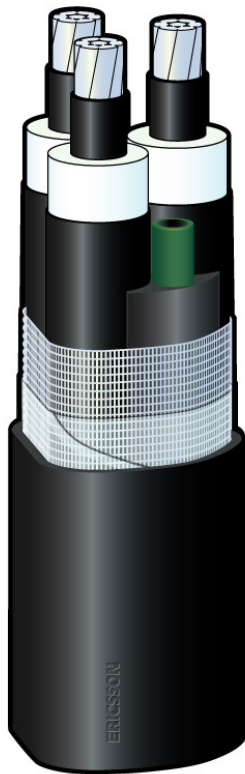


AXCES-O 12/20(24)kV 3x70/16

Product information



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: 4,5mm.
Diameter over insulation approx: 19,0mm.

Outer conductive layer

Extruded PE, easy strippable.

Screen

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

Microduct

Design for installation of the 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: 2,6mm.
Outer diameter: 46mm.
Outer circumscribed circle diameter: 50mm.
Weight: 1,9kg/m.
Density: 1,2kg/dm³

Embossed

“ERICSSON AB AC3
AXCES-O 12/20(24)kV 3x70/16 (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

AXCES-O 12/20(24)kV 3x70/16

Electrical

Number of conductors x cross sectional area (mm ²)	3x70/16		
Rated voltage U ₀ /U(U _M)	12/20(24) 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	0,33mH/km		
Capacitance	0,21μF/km		
Earth fault current	2,7A/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.	560mm
at fixed position, approx.	350mm
Min. temp. at laying approx.	-20°C

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

Area	210mm ²
Diameter	46mm
Q _c , Cable weight	1,9kg/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	46N/mm ²
Maximum force on cable in calculations	27kN
Approximate fast break load for cable	>56kN
Approximate long term break load for cable	>49kN

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