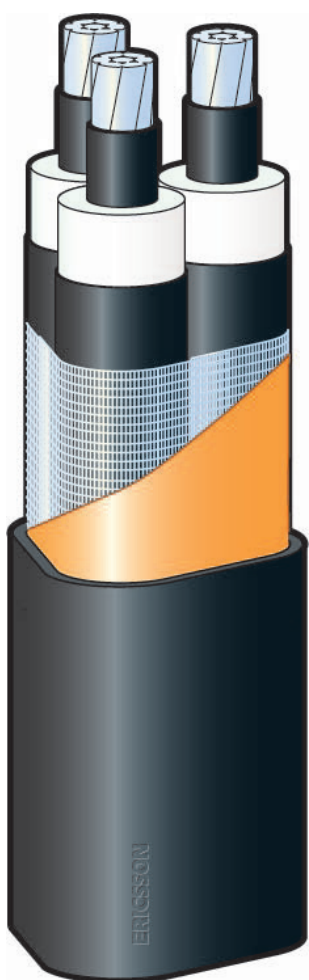


# AXCES 6/10(12) kV 3x70/16

## Product Information

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### Application

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

### Standards

IEC 60502-2  
HD 620 S2:2010 Part 10 Section M

### Conductor

Aluminum, circular stranded.  
Nominal cross sectional area: 70 mm<sup>2</sup>.  
Diameter, nominal: 9.9 mm.

### Inner conductive layer

Extruded PE

### Insulation

XLPE, Triple extruded, dry cured vulcanized.  
Nominal thickness: 3.4 mm  
Diameter over insulation approx: 17.0 mm

### Outer conductive layer

Extruded PE, easy strippable

### Screen

Band of woven copper threads  
Nominal cross sectional area, 16 mm<sup>2</sup>

### Tape

Cu-PET tape

### Sheath

Black LLD PE  
Nominal thickness: 2.4 mm  
Outer diameter: 41 mm  
Outer circumscribed circle diameter: 44 mm  
Weight: 1.5 kg/m  
Density: 1.35 kg/dm<sup>3</sup>

### Embossed

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



## Technical data

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

### Electrical

Number of conductors x cross sectional area (mm <sup>2</sup> )	3x70/16		
Rated voltage U <sub>0</sub> /U/U <sub>M</sub>	6/10(12) kV		
Rated current according to IEC287		In air 25 °C	In the ground 15 °C
maximum conductor temperature	65 °C	160 A	160 A
90 °C		190 A	190 A
as self supporting suspending cable	65 °C	160 A	-
Conductor resistance max. at 20 °C	0.44 Ω/km		
Inductance	0.30 mH/km		
Capacitance	0.29 μF/km		
Earth fault current	1.8 A/km		
Max. short circuit current (1 sec.) at 250 °C end conductor temp.	8.0 kA		
Max. short circuit current, for the screen	3.2 kA		

### Installation

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

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

Area	210 mm <sup>2</sup>
Diameter	41 mm
Q <sub>c</sub> , Cable weight	1.5 kg/m
E <sub>ik</sub> , Elasticity-modulus initial, before ice load	55 000 N/mm <sup>2</sup>
E <sub>p</sub> , Elasticity-modulus after permanent creeping, (after ice load)	64 000 N/mm <sup>2</sup>
τ <sub>p</sub> , Permanent elongation or creeping	0,7 %
Coefficient of linear expansion per °C	23 x 10 <sup>-6</sup>
Definitude strain 0 °C	42 N/mm <sup>2</sup>
Maximum force on cable in calculations	27 kN
Approximate fast break load for cable	>55 kN
Approximate long term break load for cable	>49 kN

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