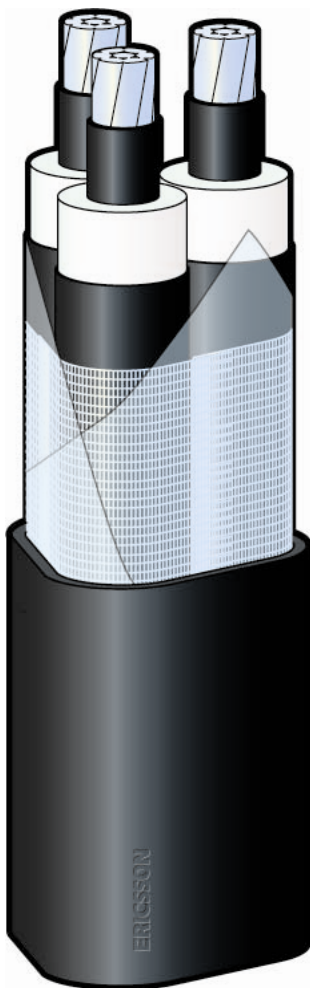


# AXCES 18/30(36)kV 3x70/25

## Product information



Design IEC 60502-2

### Conductor

Aluminum, circular stranded.  
Nominal cross sectional area: 70mm<sup>2</sup>.  
Diameter, nominal: 9,9mm.

### Inner conductive layer

Extruded PE

### Insulation

XLPE, Triple extruded, dry cured vulcanized.  
Nominal thickness: 5,5mm  
Diameter over insulation approx: 21,8mm

### Outer conductive layer

Extruded PE, easy strippable

### Screen

Band of woven copper threads.  
Nominal cross sectional area, 25mm<sup>2</sup>

### Tape

PETP-PE tape

### Sheath

Black LLD PE  
Nominal thickness: 2,6mm  
Outer diameter: 52mm  
Outer circumscribed circle diameter: 56mm  
Weight: 2,1kg/m  
Density: 1,2kg/dm<sup>3</sup>

### Embossed

"ERICSSON AB AC3  
AXCES 18/30(36)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 18/30(36)kV 3x70/25

## Electrical

Number of conductors x cross sectional area (mm <sup>2</sup> )	3x70/25		
Rated voltage U <sub>0</sub> /U/U <sub>M</sub>	18/30(36)kV		
Rated current according to IEC287		In air 25°C	In the ground 15°C
maximum conductor temperature	65°C	160A	190A
90°C		180A	210A
as self supporting suspending cable	65°C	160A	-
Conductor resistance max. at 20°C	0,44Ω/km		
Inductance	0,32mH/km		
Capacitance	0,19μF/km		
Earth fault current,			
at 12/20kV	3,4A/km		
at 18/30kV	2,3A/km		
Max. short circuit current (1 sec.) at 250 °C end conductor temp.	8,0kA		
Max. short circuit current, for the screen	5,0kA		

## 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 <sup>2</sup>
Diameter	52mm
Q <sub>c</sub> , Cable weight	2,1kg/m
E <sub>ik</sub> , Elasticity-modulus initial, before ice load	55 000N/mm <sup>2</sup>
E <sub>p</sub> , Elasticity-modulus after permanent creeping, (after ice load)	64 000N/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	46N/mm <sup>2</sup>
Maximum force on cable in calculations	27kN
Approximate fast break load for cable	>57kN
Approximate long term break load for cable	>49kN

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