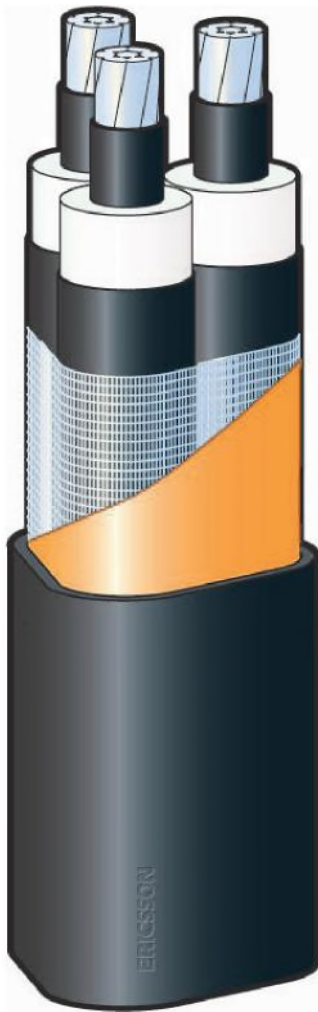


AXCES 18/30(36) kV 3x70/25

Product Information

TJX 713092



Application

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

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

Standards

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

Conductor

Aluminum, circular stranded.
Nominal cross sectional area: 70 mm².
Diameter, nominal: 9.9 mm.

Inner conductive layer

Extruded PE

Insulation

XLPE, Triple extruded, dry cured vulcanized.
Nominal thickness: 5.5 mm
Diameter over insulation approx. 21.8 mm

Outer conductive layer

Extruded PE, easy strippable

Screen

Band of woven copper threads.
Nominal cross sectional area, 25 mm²

Tape

Cu-PET tape

Sheath

Black LLD-PE nominal thickness: 2.6 mm
Outer diameter: 51 mm
Outer circumscribed circle diameter: 56 mm
Weight: 2.2 kg/m
Density: 1.2 kg/dm³

Embossed

"ERICSSON AB AC3
AXCES 18/30(36) kV 3x70/25 (Year of
manufacturing YYYY)" + meter marked



Technical data

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

Electrical

Number of conductors x cross sectional area (mm ²)	3x70/25		
Rated voltage U ₀ /U/U _M	18/30(36) kV		
Rated current according to IEC287		In air 25 °C	In the ground 15 °C
maximum conductor temperature	65 °C	160 A	190 A
90 °C		180 A	210 A
as self supporting suspending cable	65 °C	160 A	-
Conductor resistance max. at 20 °C	0.44 Ω/km		
Inductance	0.32 mH/km		
Capacitance	0.19 µF/km		
Earth fault current, at 18/30 kV	3.1 A/km		
Max. short circuit current (1 sec.) at 250 °C end conductor temp.	8.0 kA		
Max. short circuit current, for the screen	5.0 kA		

Installation

Minimum bending radius	
at laying, approx.	560 mm
at fixed position, approx.	350 mm
Min. temp. at laying approx.	-20 °C

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

Area	210 mm ²		
Diameter	52 mm		
E _{ik} , Elasticity-modulus initial, before ice load	55 000 N/mm ²		
(after ice load)	64 000 N/mm ²		
τ _p , Permanent elongation or creeping	0.7 %		
Q _c , Cable weight	2,1 kg/m	Coefficient of linear expansion per °C	23 x 10 ⁻⁶
		Definitude strain 0 °C	46 N/mm ²
E _p , Elasticity-modulus after permanent creeping,	Maximum force on cable in calculations	27 kN	
	Approximate long term break load for cable	>49 kN	
Approximate fast break load for cable	>57 kN		

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