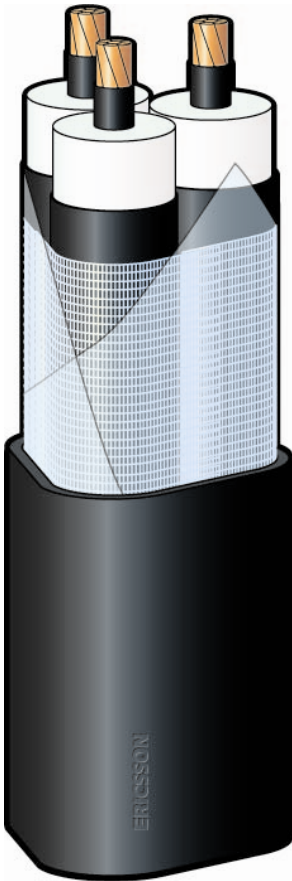


FXCEL 3x16/10 6/10(12)kV

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

Copper, hard drawn, circular, stranded.
Nominal cross sectional area: 16mm².
Diameter, nominal: 4,7mm.

Inner conductive layer

Extruded PE.

Insulation

XLPE, Triple extruded, dry cured vulcanized.
Nominal thickness: 3,4mm
Diameter over insulation approx. 12,2mm.

Outer conductive layer

Extruded PE, easy strippable.

Screen

Band of woven copper threads.
Nominal cross sectional area, 10mm².

Tape

PETP-PE tape.

Sheath

Black LLD PE
Nominal thickness: 2,2mm
Outer diameter: 31mm
Outer circumscribed circle diameter: 33mm
Weight: 1,04kg/m
Density: 1,45kg/dm³.

Embossed

"ERICSSON AC3 FXCEL 6/10(12)kV 3x16/10
mm² (Year of manufacturing YYYY)"
+ meter marked

Technical data

FXCEL 3x16/10 6/10(12) kV

Electrical

Number of conductors x cross sectional area (mm ²)	3x16/10		
Rated voltage U ₀ /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	85A	94A
	90°C	105A	105A
as self supporting suspending cable	65°C	85A	-
Conductor resistance max. at 20°C	1,15Ω/km		
Inductance	0,40mH/km		
Capacitance	0,16μF/km		
Earth fault current	0,90A/km		
Max. short circuit current (1 sec.) at 250 °C end conductor temp.	3,0kA		
Max. short circuit current, for the screen	2,0kA		

Installation

Minimum bending radius	
at laying, approx.	400mm
at fixed position, approx.	250mm
Min. temp. at laying approx.	-20°C

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

Area	55mm ²
Diameter	31mm
Q _c , Cable weight	1,04kg/m
E _{ik} , Elasticity-modulus initial, before ice load	80 000N/mm ²
E _p , Elasticity-modulus after permanent creeping, (after ice load)	100 000N/mm ²
τ _p , Permanent elongation or creeping	0,4%
Coefficient of linear expansion per °C	18 x 10 ⁻⁶
Definitude strain 0°C	75N/mm ²
Maximum force on cable in calculations	11kN
Approximate fast break load for cable	>25kN
Approximate long term break load for cable	>17kN

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