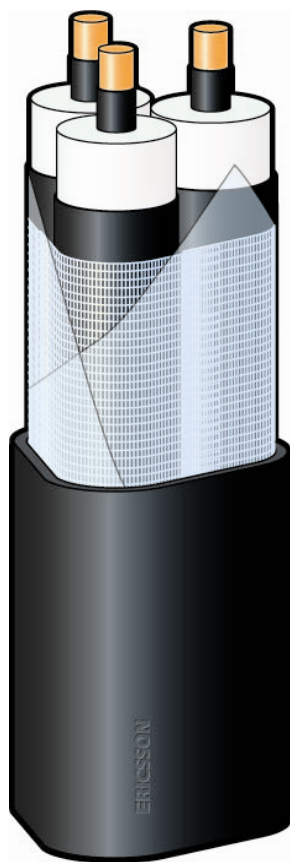


# EXCEL 3x10/10 6/10(12)kV

## Product Information



**Design:** IEC 60502-2, SS 424 14 16

### Conductor

Copper, hard drawn, circular, solid.  
Nominal cross sectional area: 10mm<sup>2</sup>.  
Diameter, nominal: 3,55mm.

### Inner conductive layer

Extruded PE.

### Insulation

XLPE, Triple extruded, dry cured vulcanized.  
Nominal thickness: 3,4mm  
Diameter over insulation approx. 11,1mm.

### Outer conductive layer

Extruded PE, easy strippable.

### Screen

Band of woven copper threads.  
Nominal cross sectional area, 10mm<sup>2</sup>.

### Tape

PETP-PE tape.

### Sheath

Black LLD PE  
Nominal thickness: 2,2mm  
Outer diameter: 29mm  
Outer circumscribed circle diameter: 31mm  
Weight: 0,83kg/m  
Density: 1,4kg/dm<sup>3</sup>.

### Application

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

### Embossed

"ERICSSON AC3 EXCEL 6/10(12)kV  
3x10/10 mm<sup>2</sup> (Year of manufacturing YYYY)"  
+ meter marked.

## Technical data

### EXCEL 3x10/10 6/10(12)kV

#### Electrical

Number of conductors x cross sectional area (mm <sup>2</sup> )	3x10/10		
Rated voltage U/U <sub>0</sub> /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	71A	81A
	90°C	90A	96A
as self supporting suspending cable	65°C	71A	-
Conductor resistance max. at 20°C	1,83Ω/km		
Inductance	0,42mH/km		
Capacitance	0,13μF/km		
Earth fault current	0,74A/km		
Max. short circuit current (1 sec.) at 250 °C end conductor temp.	2,0kA		
Max. short circuit current, for the screen	2,0kA		

#### Installation

Minimum bending radius	
at laying, approx.	350mm
at fixed position, approx.	250mm
Min. temp. at laying approx.	-20°C

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

Area	40mm <sup>2</sup>
Diameter	29mm
Q <sub>c</sub> , Cable weight	0,83kg/m
E <sub>ik</sub> , Elasticity-modulus initial, before ice load	96 000N/mm <sup>2</sup>
E <sub>p</sub> , Elasticity-modulus after permanent creeping, (after ice load)	111 000N/mm <sup>2</sup>
τ <sub>p</sub> , Permanent elongation or creeping	0,5%
Coefficient of linear expansion per °C	20 x 10 <sup>-6</sup>
Definitude strain 0°C	67,5N/mm <sup>2</sup>
Maximum force on cable in calculations	8,1kN
Approximate fast break load for cable	>20kN
Approximate long term break load for cable	>15kN

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