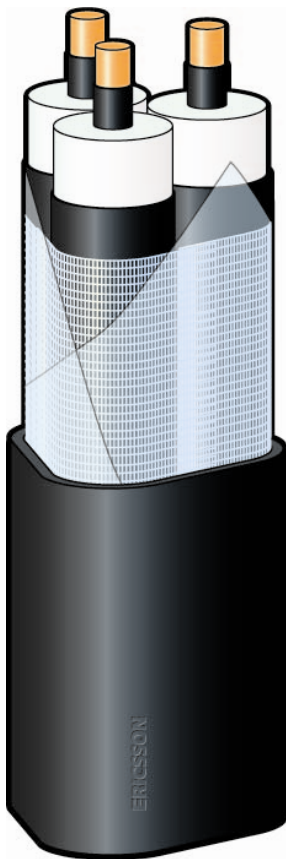


# EXCEL 3x10/10 12/20(24)kV

## 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, solid.  
Nominal cross sectional area: 10mm<sup>2</sup>.  
Diameter, nominal: 3,5mm.

### Inner conductive layer

Extruded PE.

### Insulation

XLPE, Triple extruded, dry cured vulcanized.  
Nominal thickness: 5,5mm  
Diameter over insulation approx. 15,3mm.

### 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: 2,6mm  
Outer diameter: 38mm  
Outer circumscribed circle diameter: 41mm  
Weight: 1,18kg/m  
Density: 1,2kg/dm<sup>3</sup>.  
Embossed  
"ERICSSON AC3 EXCEL 12/20(24) kV  
3x10/10 mm<sup>2</sup> (Year of manufacturing YYYY)"  
+ meter marked

## Technical data

### EXCEL 3x10/10 12/20(24)kV

## Electrical

Number of conductors x cross sectional area (mm <sup>2</sup> )	3x10/10		
Rated voltage U <sub>0</sub> /U <sub>M</sub>	12/20(24)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	90A
as self supporting suspending cable	65°C	71A	-
Conductor resistance max. at 20°C	1,83Ω/km		
Inductance	0,49mH/km		
Capacitance	0,10μF/km		
Earth fault current	1,14A/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.	450mm
at fixed position, approx.	350mm
Min. temp. at laying approx.	-20°C

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

Area	40mm <sup>2</sup>
Diameter	38mm
Q <sub>c</sub> , Cable weight	1,18kg/m
E <sub>ik</sub> , Elasticity-modulus initial, before ice load	75 000N/mm <sup>2</sup>
E <sub>p</sub> , Elasticity-modulus after permanent creeping, (after ice load)	87 000N/mm <sup>2</sup>
I <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	80N/mm <sup>2</sup>
Maximum force on cable in calculations	8,5kN
Approximate fast break load for cable	>22kN
Approximate long term break load for cable	>15kN

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