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

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## Product information

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### **Standards**

IEC 60502-2

HD 620 S2:2010 Part 10 Section M

### **Conductor**

Copper, hard drawn, circular, solid.

Nominal cross sectional area: 10 mm<sup>2</sup>

Diameter, nominal: 3.55 mm

### **Inner conductive layer**

Extruded PE

### **Insulation**

XLPE, Triple extruded, dry cured vulcanized

Nominal thickness: 3.4 mm

Diameter over insulation approx. 11.1 mm

### **Outer conductive layer**

Extruded PE, easy strippable

### **Screen**

Band of woven copper threads

Nominal cross sectional area, 10mm<sup>2</sup>

### **Tape**

Cu-PET tape

### **Sheath**

Black LLD PE Nominal thickness: 2.2 mm

Outer diameter: 32 mm

Weight: 0.9 kg/m

Density: 1.4 kg/dm

### **Embossed**

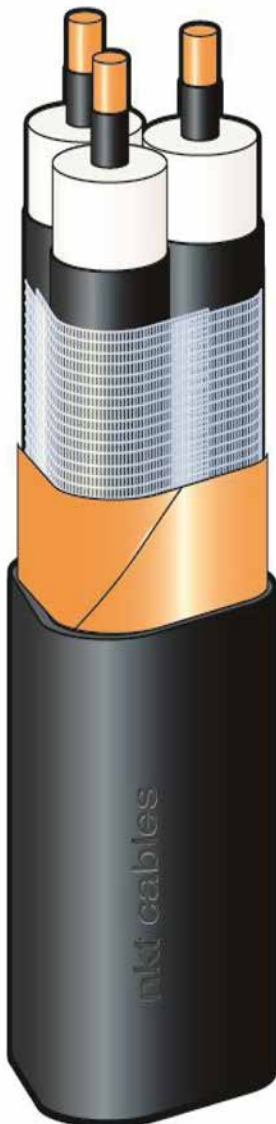
nkt cables

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

## Electrical characteristics

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

## Installation

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

## Data for calculation in pole-setting systems

Area	40 mm <sup>2</sup>
Diameter	30 mm
Qc, Cable weight	0,9 kg/m
E <sub>ik</sub> , Elasticity-modulus initial, before ice load	96.000 N/mm <sup>2</sup>
E <sub>p</sub> , Elasticity-modulus after permanent creeping	111.000 N/mm <sup>2</sup>
T <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	67,5 N/mm <sup>2</sup>
Maximum force on cable in calculations	8.1 kN
Approximate fast break load for cable	> 20 kN
Approximate long term break load for cable	> 15 kN



The product is part of The Ericsson Energy Cables & Interconnect business which has been divested to nkt cables

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