SE-N1XE-U

Copper power cable

0,6/1 (1,2) kV



EN 50575 CPR F ca

Application

Copper power cable for fixed installations indoors and outdoors. May be buried directly in soil, also by ploughing. The conductor insulation must be protected against UV-radiation. Installations must be in accordance with national regulations and rules of installations. The cable is halogen-free, but without fire protection.

Design

Standards	SEK TS 424 14 18-1, HD 603 5 O
Reaction to fire	Fca; EN 13501-6, EN 50575:2014+A1:2016
Conductor	Circular solid copper, EN/IEC 60228 class 1
Insulation	Cross-linked polyethylene XLPE
Core Identification	Yellow-green, brown, black, grey Yellow-green, blue, brown, black, grey
Inner covering	Plastic tape
Oversheath	UV-protected polyethylene compound PELLD , Black

Temperature limits

Max. conductor temperature °C	90
Max. cond. temp. short circuit max. 5 s °C	250
Min. cable temperature during operation °C	-40
Min. cable temperature during handling °C	-15
Min. cable temperature during transport °C	-40

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Technical information	5G10 BK
Product code	**1255296**
Nominal cable diameter mm	19
Nominal cable weight kg/km	728
Nominal weight of copper kg/km	442
Nominal Insulation thicness mm	0,7
Nominal thickness of oversheath mm	1,8
Maximum forces during installation when pulling by	
Max. pulling force by pulling-eye kN	2,5
Max. pulling force by pulling-stocking kN	0,8
Minimum bending radii	
Minimum bending radius, handling mm	227
Minimum bending radius, final bending mm	159
Minimum bending radii	
During handling and installation, cable cm	23
In final installation, cable cm	16
Minimum bending radii	
During handling and installation, cable m	0,23
In final installation, cable m	0,16
DC resistance	
Max. DC resistance of conductor at 20 °C Ω/km	1,83

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Technical information	5G10 BK
Current ratings	
Cables in air (25 °C)	
two loaded conductor, conductor 70 °C A	73
three loaded conductor, conductor 70 °C A	62
two loaded conductor, conductor 90 °C A	89
three loaded conductor, conductor 90 °C A	78
Cables in air (30 °C)	
two loaded conductor, conductor 70 °C A	70
three loaded conductor, conductor 70 °C A	60
two loaded conductor, conductor 90 °C A	86
three loaded conductor, conductor 90 °C A	75
Cables in the ground (15 °C and 1,0 K.m/W), Installation depth 0,7 m	
Cables in the ground, conductor 65 °C A	77
Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m	
Cables in the ground, conductor 90 °C A	65
Maximum thermal short circuit current during 1 s	
Phase (initial 65 °C, final 250 °C) kA	1,6
Phase (initial 90 °C, final 250 °C) kA	1,4

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STANDARD PACKAGES	5G10 BK
Product code	1255296
GTIN code	6438176218938
Package	500 K9

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