

AXMK

Aluminium power cable

0,6/1 (1,2) kV



Aluminium power cable for fixed installations indoors and outdoors. May be buried directly in soil. UV-protected oversheath and core insulation. Installations must be in accordance with national regulations and rules of installations. The cable is flame-retardant according to CPR-class Eca.

Standards	SFS 4879:2018, SS 424 14 18:2007, HD 603 S1:1994/A3:2007 Part 5 Section D and O	
Product code	1116358	
Size	4x185 S	
Voltage	0,6/1 (1,2) kV	
Reaction to fire	Eca	
Certificates	SGS Fimko FI 41548	
Conductor	16-25 mm ² circular stranded aluminium, EN/IEC 60228 class 2	
	35-300 mm ² sector shaped, stranded aluminium, EN/IEC 60228 class 2	
	Nominal cross-sectional area of conductor mm ²	185
	Maximum DC resistance at 20 °C Ω/km	0.164
Insulation	UV-protected cross-linked polyethylene XLPE	
	Nominal thickness of insulation mm	1.6
Core identification	Yellowgreen, brown, black, grey	
Inner covering	Plastic tape	
Oversheath	UV-protected PVC compound	
	Colour of the oversheath	Black
	Nominal thickness of oversheath mm	2.6
	Nominal diameter of complete cable mm	46
	Nominal weight of cable kg/km	2798
Maximum forces during installation when pulling by	Max. pulling force by pulling-eye kN	11.1
	Max. pulling force by pulling-stocking kN	8.5
Minimum bending radii	During handling and installation, phase conductor cm	37
	During handling and installation, cable cm	55
	In final installation, phase conductor cm	26
	In final installation, cable cm	39
Minimum bending radii	During handling and installation, cable m	0.55

	In final installation, cable m	0.39
Temperature limits	Max. conductor temperature °C	90
	Max. cond. temp. short circuit max. 5 s °C	250
	Min. cable temperature during handling °C	-20
	Min. cable temperature during operation °C	-40
	Min. cable temperature during transport °C	-25
Cables in air (25 °C)	two loaded conductor, conductor 70 °C A	335
	three loaded conductor, conductor 70 °C A	291
	two loaded conductor, conductor 90 °C A	413
	three loaded conductor, conductor 90 °C A	361
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	330
	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	250
Maximum thermal short circuit current during 1 s	Phase (initial 65 °C, final 250 °C) kA	19.2
	Phase (initial 90 °C, final 250 °C) kA	17.5
Inductance per phase	Calculated inductance mH/km	0.26
capacitance	Calculated operation capacitance µF/km	0.28

