AXMK GY

Aluminium power cable

0,6/1 (1,2) kV

Application

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.

Design

Standards	SFS 4879, SEK TS 424 14 18-1, HD 603 5 D & O
Certificates	SGS Fimko FI 42472 Issue 1
Reaction to fire	Eca; EN 13501-6, EN 50575:2014+A1:2016
Conductor	16...25 mm² circular stranded aluminium, EN/IEC 60228 class 2
Insulation	UV-protected cross-linked polyethylene XLPE
Core Identification	Black Yellow-green, brown, black, grey Yellow-green, blue, brown, black, grey
Inner covering	Plastic tape
Oversheath	UV-protected PVC-compound , Grey

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	-20
Min. cable temperature during transport °C	-25

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Technical information	4x16 S GY	4x25 S GY
Product code	**1116347**	**1703480**
Nominal cable diameter mm	19	22
Nominal cable weight kg/km	370	517
Nominal weight of Aluminium kg/km	175	266
Nominal Insulation thicness mm	0,7	0,9
Nominal thickness of oversheath mm	1,8	1,8
Fire load		
Fire load MJ/m	5,273	7,140
Fire load kWh/m	1,465	1,983
Maximum forces during installation when pulling by		
Max. pulling force by pulling-eye kN	1,0	1,5
Max. pulling force by pulling-stocking kN	1,0	1,5
Minimum bending radii		
Minimum bending radius, handling mm	226	266
Minimum bending radius, final bending mm	158	186
Minimum bending radii		
During handling and installation, phase conductor cm	10	9
During handling and installation, cable cm	23	27
In final installation, phase conductor cm	7	6
In final installation, cable cm	16	19
Minimum bending radii		
During handling and installation, cable m	0,23	0,27
In final installation, cable m	0,16	0,19
DC resistance		
Max. DC resistance of conductor at 20 °C Ω/km	1,91	1,20
Electrical values		
Calculated inductance mH/km	0,29	0,28
Calculated operation capacitance µF/km	0,30	0,29

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Technical information	4x16 S GY	4x25 S GY
Current ratings		
Cables in air (25 °C)		
two loaded conductor, conductor 70 °C A	76	93
three loaded conductor, conductor 70 °C A	63	81
two loaded conductor, conductor 90 °C A	95	112
three loaded conductor, conductor 90 °C A	80	101
Cables in air (30 °C)		
two loaded conductor, conductor 70 °C A	73	89
three loaded conductor, conductor 70 °C A	61	78
two loaded conductor, conductor 90 °C A	91	108
three loaded conductor, conductor 90 °C A	77	97
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	78	100
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	64	82
Maximum thermal short circuit current during 1 s		
Phase (initial 65 °C, final 250 °C) kA	1,7	2,6
Phase (initial 90 °C, final 250 °C) kA	1,5	2,4

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STANDARD PACKAGES	4x16 S GY	4x25 S GY
Product code	1116347	1703480
GTIN code	6410006262069	6410006262526
Package	500 K11	500 K12

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