

2024-05-02 15:12:06

AXMK RE

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, SS 424 14 18, HD 603 5 D & O
Certificates	SGS Fimko FI 41548
Reaction to fire	Eca; EN 13501-6, EN 50575:2014+A1:2016
Conductor	Circular solid aluminium, EN/IEC 60228 class 1
Insulation	UV-protected cross-linked polyethylene XLPE
Core Identification	Black Yellowgreen, brown, black, grey Yellowgreen, blue, brown, black, grey
Inner covering	Plastic tape
Oversheath	UV-protected PVC compound, 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	-20
Min. cable temperature during transport °C	-25

2024-05-02 15:12:06

Technical information	4x16 RE S	5x16 RE S
Product code	1116349	1703496
Nominal cross-sectional area of conductor mm ²	16	16
Nominal thickness of insulation mm	0,7	0,7
Nominal thickness of oversheath mm	1,8	1,8
Fire load MJ/m	4,689	5,562
Fire load kWh/m	1,303	1,545
Nominal cable diameter mm	17,650	19,310
Nominal cable weight kg/km	339,702	419,994
Metall weight Al kg/m	0,166	0,208
Maximum forces during installation when pulling by		
Max. pulling force by pulling-eye kN	1,9	2,4
Max. pulling force by pulling-stocking kN	1,0	1,2
Minimum bending radii		
During handling and installation, phase conductor cm	9	9
During handling and installation, cable cm	21	23
In final installation, phase conductor cm	6	6
In final installation, cable cm	15	16
Minimum bending radii		
During handling and installation, cable m	0,21	0,23
In final installation, cable m	0,15	0,16
DC resistance		
Max. DC resistance of conductor at 20 °C Ω/km	1,91	1,91
Electrical values		
Calculated inductance mH/km	0,29	0,29
Calculated operation capacitance μF/km	0,30	0,30

2024-05-02 15:12:06

Technical information	4x16 RE S	5x16 RE S
Current ratings		
Cables in air (25 °C)		
two loaded conductor, conductor 70 °C A	76	76
three loaded conductor, conductor 70 °C A	63	63
two loaded conductor, conductor 90 °C A	95	95
three loaded conductor, conductor 90 °C A	80	80
Cables in air (30 °C)		
two loaded conductor, conductor 70 °C A	73	73
three loaded conductor, conductor 70 °C A	61	61
two loaded conductor, conductor 90 °C A	91	91
three loaded conductor, conductor 90 °C A	77	77
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	78
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	64
Maximum thermal short circuit current during 1 s		
Phase (initial 65 °C, final 250 °C) kA	1,7	1,7
Phase (initial 90 °C, final 250 °C) kA	1,5	1,5