

AXMK 1-core

Aluminium power cable

0,6/1 (1,2) kV

Application

Aluminium power cable for fixed installations indoors and outdoors. The cable is not intended for underground installations. 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 41548
Reaction to fire	Eca; EN 13501-6, EN 50575:2014+A1:2016
Conductor	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, 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

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Technical information	1x300	1x400	1x500	1x630	1x800
Product code	1116020	1116021	1116022	1116023	1700134
Nominal cross-sectional area of conductor mm ²	300	400	500	630	800
Nominal thickness of insulation mm	1,8	2,0	2,2	2,4	2,6
Nominal thickness of oversheath mm	1,8	2,0	2,1	2,2	2,3
Fire load MJ/m	11,121	13,331	16,310	19,984	24,854
Fire load kWh/m	3,089	3,703	4,531	5,551	6,904
Nominal cable diameter mm	27,950	30,700	34,400	38,700	43,200
Nominal cable weight kg/km	1177,768	1401,503	1844,099	2365,309	2994,372
Nominal weight of aluminium kg/m	0,812	0,960	1,310	1,718	2,204
Maximum forces during installation when pulling by					
Max. pulling force by pulling-eye kN	4,5	6,0	7,5	9,5	12,0
Max. pulling force by pulling-stocking kN	4,5	6,0	7,5	8,5	8,5
Minimum bending radii					
During handling and installation, cable cm	42	46	52	58	65
In final installation, cable cm	29	32	36	41	45
Minimum bending radii					
During handling and installation, cable m	0,42	0,46	0,52	0,58	0,65
In final installation, cable m	0,29	0,32	0,36	0,41	0,45
DC resistance					
Max. DC resistance of conductor at 20 °C Ω/km	0,100	0,0778	0,0605	0,0469	0,0367
Current ratings					
Cables in air (25 °C)					
Flat, conductor 70 °C, free space one cable diam A	579	698	806	936	1141
Cables in air (30 °C)					
Flat, conductor 90 °C, free space one cable diam A	708	856	991	1154	1313
Maximum thermal short circuit current during 1 s					
Phase (initial 65 °C, final 250 °C) kA	31,1	41,4	51,8	65,2	82,8
Phase (initial 90 °C, final 250 °C) kA	28,2	37,8	47,2	59,5	75,6