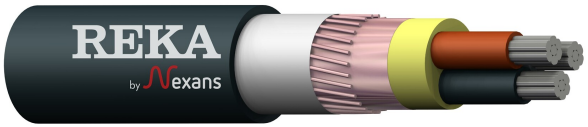
AEMCMK-HF / AXQJ-EMC / IFSI-EMC-Al

Aluminium power cable EMC



0,6/1 (1,2) kV

Application

Aluminium power cable for fixed installations indoors and outdoors. May be buried directly in soil. EMC shielded cable gives an excellent protection against electromagnetic disturbancies. 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 and flame-retardant according to CPR-class Dca-s2,d2,a2.

Design

Standards	SFS 5546, SEK TS 424 14 18-1, HD 604 5 I & D, IEC 60502-1
Reaction to fire	Dca-s2,d2,a2; EN 13501-6, EN 50575:2014+A1:2016
Conductor	16-25 mm² circular stranded aluminium, EN/IEC 60228 class 2
Insulation	Cross-linked polyethylene XLPE
Core Identification	Brown, black, grey Blue, brown, black, grey
Inner covering	Plastic tape
Metal screen	EMC-copper foil and copper wires
Oversheath	UV-protected polyolefin compound , Black
EMC-Shield	Copper foil with 100 % coverage

Temperature limits

Max. conductor temperature °C	90
Max. cond. temp. short circuit max. 5 s °C	250
Min. cable temperature during operation °C	-50
Min. cable temperature during handling °C	-15
Min. cable temperature during transport °C	-25

Technical information	3x16/10	3x25/16	4x16/10	4x25/16
Product code	**1149200**	**1149201**	**1149214**	**1149215**
Nominal cable diameter mm	21	24	22	26
Nominal cable weight kg/km	610	863	705	999
Nominal weight of copper kg/km	113	169	116	172
Nominal weight of Aluminium kg/km	129	199	173	266
Nominal Insulation thicness mm	0,7	0,9	0,7	0,9
Nominal size of metal screen mm²	10	16	10	16
Nominal thickness of oversheath mm	1,8	1,8	1,8	1,8
Fire load				
Fire load MJ/m	5,435	7,406	6,513	8,947
Fire load kWh/m	1,510	2,057	1,809	2,485
Maximum forces during installation when pulling by				
Max. pulling force by pulling-eye kN	0,7	1,1	1,0	1,5
Max. pulling force by pulling-stocking kN	0,7	1,1	1,0	1,5
Minimum bending radii				
Minimum bending radius, handling mm	248	289	268	312
Minimum bending radius, final bending mm	174	202	187	219
Minimum bending radii				
During handling and installation, phase conductor cm	10	9	10	9
During handling and installation, cable cm	25	29	27	31
In final installation, phase conductor cm	7	6	7	6
In final installation, cable cm	17	20	19	22
Minimum bending radii				
During handling and installation, cable m	0,25	0,29	0,27	0,31
In final installation, cable m	0,17	0,20	0,19	0,22
DC resistance				
Max. DC resistance of conductor at 20 °C Ω/km	1,91	1,20	1,91	1,20
Maximum DC resistance at 20 °C, metal screen Ω/km	1,83	1,15	1,83	1,15

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Technical information	3x16/10	3x25/16	4x16/10	4x25/16
Current ratings				
Cables in air (25 °C)				
two loaded conductor, conductor 70 °C A	76	93	76	93
three loaded conductor, conductor 70 °C A	63	81	63	81
two loaded conductor, conductor 90 °C A	95	112	95	112
three loaded conductor, conductor 90 °C A	80	101	80	101
Cables in air (30 °C)				
two loaded conductor, conductor 70 °C A	73	89	73	89
three loaded conductor, conductor 70 °C A	61	78	61	78
two loaded conductor, conductor 90 °C A	91	108	91	108
three loaded conductor, conductor 90 °C A	77	97	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	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	64	82
Maximum thermal short circuit current during 1 s				
Phase (initial 65 °C, final 250 °C) kA	1,7	2,6	1,7	2,6
Phase (initial 90 °C, final 250 °C) kA	1,5	2,4	1,5	2,4
Metal screen (initial 80 °C, final 250 °C) kA	1,5	2,4	1,5	2,4

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STANDARD PACKAGES	3x16/10	3x25/16	4x16/10	4x25/16
Product code	1149200		1149214	1149215
GTIN code	6438176225653		6438176225875	6438176225899
Package	500 K11		500 K12	500 K14