

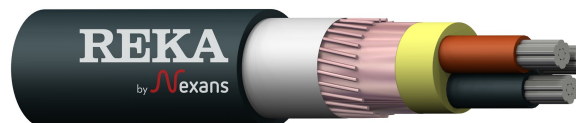
AEMCMK-HF / AXQJ-EMC / IFSI- EMC-AI

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 disturbances. 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 mm ² 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

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Technical information	3x16/10	3x25/10	3x25/16	4x16/10	4x25/10	4x25/16
Product code	1149200	1320551	1149201	1149214	1320571	1149215
Nominal cross-sectional area of conductor mm ²	16	25	25	16	25	25
Nominal thickness of insulation mm	0,7	0,9	0,9	0,7	0,9	0,9
Nominal size of metal screen mm ²	10	10	16	10	10	16
Nominal thickness of oversheath mm	1,8	1,8	1,8	1,8	1,8	1,8
Fire load MJ/m	5,435	7,356	7,406	6,513	8,897	8,947
Fire load kWh/m	1,510	2,043	2,057	1,809	2,471	2,485
Nominal cable diameter mm	20,660	23,670	24,050	22,320	25,660	26,040
Nominal cable weight kg/km	609,727	808,560	863,243	705,213	944,533	999,217
Nominal weight of copper kg/m	0,113	0,118	0,169	0,116	0,121	0,172
Nominal weight of aluminium kg/m	0,129	0,199	0,199	0,173	0,266	0,266
Maximum forces during installation when pulling by						
Max. pulling force by pulling-eye kN	0,7	1,1	1,1	1,0	1,5	1,5
Max. pulling force by pulling-stocking kN	0,7	1,1	1,1	1,0	1,5	1,5
Minimum bending radii						
During handling and installation, phase conductor cm	10	9	9	10	9	9
During handling and installation, cable cm	25	28	29	27	31	31
In final installation, phase conductor cm	7	6	6	7	6	6
In final installation, cable cm	17	20	20	19	22	22
Minimum bending radii						
During handling and installation, cable m	0,25	0,28	0,29	0,27	0,31	0,31
In final installation, cable m	0,17	0,20	0,20	0,19	0,22	0,22
DC resistance						
Max. DC resistance of conductor at 20 °C Ω/km	1,91	1,20	1,20	1,91	1,20	1,20
Maximum DC resistance at 20 °C, metal screen Ω/km	1,83	1,83	1,15	1,83	1,83	1,15

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