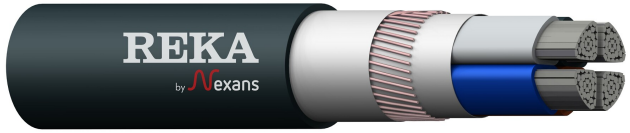
AMCMK / AKKJ

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 or cast concrete. 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 4880, SEK TS 424 14 18-1, HD 603 3 F & L
Reaction to fire	Eca; EN 13501-6, EN 50575:2014+A1:2016
Conductor	16 mm² circular solid aluminium, EN/IEC 60228 class 1 25 mm² circular stranded aluminium, EN/IEC 60228 class 2 35-300 mm² sector shaped, stranded aluminium, EN/IEC 60228 class 2
Insulation	PVC-compound
Core Identification	Brown, black, grey Blue, brown, black, grey
Inner covering	Plastic tape
Metal screen	Copper wires and copper tape
Oversheath	UV-protected PVC-compound , Black

Temperature limits

Max. conductor temperature °C	70
Max. cond. temp. short circuit max. 5 s °C	160
Min. cable temperature during operation °C	-40
Min. cable temperature during handling °C	-15
Min. cable temperature during transport °C	-25

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Technical information	3x16/10	3x25/16	3x35/16	3x50/16	3x70/21	3x95/29	3x120/41	3x150/41	3x185/57	3x240/72
Product code	**1111210**	**1111231**	**1111312**	**1111313**	**1111314**	**1111315**	**1111316**	**1111317**	**1111318**	**1111319**
Nominal cable diameter mm	19	24	24	26	29	34	38	41	45	51
Nominal cable weight kg/km	439	669	763	953	1241	1683	2090	2450	3048	3933
Nominal weight of copper kg/km	92	149	149	148	196	258	369	369	515	649
Nominal weight of Aluminium kg/km	125	199	273	376	544	752	949	1165	1414	1912
Nominal Insulation thicness mm	1,0	1,2	1,2	1,4	1,4	1,6	1,6	1,8	2,0	2,2
Nominal size of metal screen mm²	10	16	16	16	21	29	41	41	57	72
Nominal thickness of oversheath mm	1,8	1,8	1,8	1,9	2,0	2,2	2,3	2,4	2,6	2,8
Fire load										
Fire load MJ/m	4,566	6,641	7,042	8,961	10,439	13,974	16,213	19,166	23,318	28,497
Fire load kWh/m	1,268	1,845	1,956	2,489	2,900	3,882	4,504	5,324	6,477	7,916
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	1,4	1,1	1,6	2,3	3,2	4,3	5,4	6,8	8,3	10,8
Max. pulling force by pulling-stocking kN	0,7	1,1	1,6	2,3	3,2	4,3	5,4	6,8	8,3	8,5
Minimum bending radii										
Minimum bending radius, handling mm	230	287	284	312	346	411	452	492	544	608
Minimum bending radius, final bending mm	161	201	198	218	242	288	317	344	381	426
Minimum bending radii										
During handling and installation, phase conductor cm	10	13	18	21	25	29	32	36	39	45
During handling and installation, cable cm	23	29	28	31	35	41	45	49	54	61
In final installation, phase conductor cm	7	9	13	15	17	21	23	25	28	31
In final installation, cable cm	16	20	20	22	24	29	32	34	38	43
Minimum bending radii										
During handling and installation, cable m	0,23	0,29	0,28	0,31	0,35	0,41	0,45	0,49	0,54	0,61
In final installation, cable m	0,16	0,20	0,20	0,22	0,24	0,29	0,32	0,34	0,38	0,43
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	1,91	1,20	0,868	0,641	0,443	0,320	0,253	0,206	0,164	0,125
Maximum DC resistance at 20 °C, metal screen Ω/km	1,83	1,15	1,15	1,15	0,868	0,641	0,443	0,443	0,320	0,253

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Technical information	3x16/10	3x25/16	3x35/16	3x50/16	3x70/21	3x95/29	3x120/41	3x150/41	3x185/57	3x240/72
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	76	93	115	140	180	218	254	293	335	395
three loaded conductor, conductor 70 °C A	63	81	100	122	156	190	220	255	291	343
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	73	89	111	135	173	210	244	282	322	380
three loaded conductor, conductor 70 °C A	61	78	96	117	150	183	212	245	280	330
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	125	150	185	220	255	280	330	375
Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m										
Cables in the ground, conductor 70 °C A	53	69	83	99	122	148	169	189	214	250
Cables in the ground in a tube, conductor 70 °C A	50	64	77	91	112	132	150	169	190	218
Maximum thermal short circuit current during 1 s										
Phase (initial 70 °C, final 160 °C) kA	1,2	1,8	2,6	3,6	5,1	6,9	8,7	10,8	13,3	17,3
Metal screen (initial 60 °C, final 250 °C) kA	1,6	2,5	2,5	2,5	3,3	4,6	6,5	6,5	9,1	11,5

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STANDARD PACKAGES	3x16/10	3x25/16	3x35/16	3x50/16	3x70/21	3x95/29	3x120/41	3x150/41	3x185/57	3x240/72
Product code	1111210	1111231	1111312	1111313	1111314	1111315	1111316	1111317	1111318	1111319
GTIN code	6410006223572	6410006223480	6410006223596	6410006223602	6410006223619	6410006223626	6410006223633	6410006223565	6410006223657	6410006223664
Package	1000 K14	500 K12	1000 K16	1000 K16	1000 K18	1000 K22	500 K18	1000 K24	500 K22	500 K22
Product code	1111210	1111231	1111312	1111313	1111314	1111315	1111316	1111317		
GTIN code	6410006223473	6410006223589	6410006223497	6410006223503	6410006223510	6410006223527	6410006223534	6410006223640		
Package	500 K11	1000 K16	500 K12	500 K12	500 K14	500 K16	1000 K22	500 K20		

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Technical information	3x300/88	4x16/10	4x25/16	4x35/16	4x50/16	4x70/21	4x95/29	4x120/41	4x150/41	4x185/57
Product code	**1111320**	**1111410**	**1111411**	**1111412**	**1111413**	**1111414**	**1111415**	**1111416**	**1111417**	**1111418**
Nominal cable diameter mm	55	21	26	26	30	33	38	42	47	51
Nominal cable weight kg/km	4802	520	798	929	1186	1572	2040	2548	3077	3778
Nominal weight of copper kg/km	808	92	149	148	148	196	258	369	369	515
Nominal weight of Aluminium kg/km	2360	166	266	365	501	725	963	1267	1574	1913
Nominal Insulation thicness mm	2,4	1,0	1,2	1,2	1,4	1,4	1,6	1,6	1,8	2,0
Nominal size of metal screen mm²	88	10	16	16	16	21	29	41	41	57
Nominal thickness of oversheath mm	3,0	1,8	1,8	1,8	2,0	2,1	2,3	2,4	2,6	2,7
Fire load										
Fire load MJ/m	33,859	5,364	7,912	8,705	11,525	13,498	17,665	19,690	24,386	28,953
Fire load kWh/m	9,405	1,490	2,198	2,418	3,201	3,749	4,907	5,470	6,774	8,042
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	13,5	1,9	1,5	2,1	3,0	4,2	5,7	7,2	9,0	11,1
Max. pulling force by pulling-stocking kN	8,5	1,0	1,5	2,1	3,0	4,2	5,7	7,2	8,5	8,5
Minimum bending radii										
Minimum bending radius, handling mm	664	250	312	312	363	398	457	503	560	613
Minimum bending radius, final bending mm	465	175	219	218	254	279	320	352	392	429
Minimum bending radii										
During handling and installation, phase conductor cm	51	10	13	17	20	24	28	30	34	38
During handling and installation, cable cm	66	25	31	31	36	40	46	50	56	61
In final installation, phase conductor cm	36	7	9	12	14	17	19	21	23	27
In final installation, cable cm	46	17	22	22	25	28	32	35	39	43
Minimum bending radii										
During handling and installation, cable m	0,66	0,25	0,31	0,31	0,36	0,40	0,46	0,50	0,56	0,61
In final installation, cable m	0,47	0,17	0,22	0,22	0,25	0,28	0,32	0,35	0,39	0,43
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	0,100	1,91	1,20	0,868	0,641	0,443	0,320	0,253	0,206	0,164
Maximum DC resistance at 20 °C, metal screen Ω/km	0,206	1,83	1,15	1,15	1,15	0,868	0,641	0,443	0,443	0,320

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Technical information	3x300/88	4x16/10	4x25/16	4x35/16	4x50/16	4x70/21	4x95/29	4x120/41	4x150/41	4x185/57
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	457	76	93	115	140	180	218	254	293	335
three loaded conductor, conductor 70 °C A	396	63	81	100	122	156	190	220	255	291
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	439	73	89	111	135	173	210	244	282	322
three loaded conductor, conductor 70 °C A	381	61	78	96	117	150	183	212	245	280
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	430	78	100	125	150	185	220	255	280	330
Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m										
Cables in the ground, conductor 70 °C A	282	53	69	83	99	122	148	169	189	214
Cables in the ground in a tube, conductor 70 °C A	247	50	64	77	91	112	132	150	169	190
Maximum thermal short circuit current during 1 s										
Phase (initial 70 °C, final 160 °C) kA	21,6	1,2	1,8	2,6	3,6	5,1	6,9	8,7	10,8	13,3
Metal screen (initial 60 °C, final 250 °C) kA	14,0	1,6	2,5	2,5	2,5	3,3	4,6	6,5	6,5	9,1

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STANDARD PACKAGES	3x300/88	4x16/10	4x25/16	4x35/16	4x50/16	4x70/21	4x95/29	4x120/41	4x150/41	4x185/57
Product code	1111320	1111410	1111411	1111412	1111413	1111414	1111415	1111416	1111417	1111418
GTIN code	6410006223671	6410006223374	6410006223381	6410006223794	6410006223404	6410006223817	6410006223541	6410006223831	6410006223848	6410006223855
Package	500 K24	1000 K14	1000 K18	1000 K16	1000 K20	1000 K22	500 K18	500 K20	500 K22	500 K22
Product code				1111412	1111413	1111414	1111415			
GTIN code				6410006223688	6410006223367	6410006223800	6410006223824			
Package				500 K12	500 K14	500 K16	1000 K22			

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Technical information	4x240/72	4x300/88
Product code	**1111419**	**1111420**
Nominal cable diameter mm	58	64
Nominal cable weight kg/km	4959	5949
Nominal weight of copper kg/km	649	808
Nominal weight of Aluminium kg/km	2608	3102
Nominal Insulation thicness mm	2,2	2,4
Nominal size of metal screen mm²	72	88
Nominal thickness of oversheath mm	3,0	3,2
Fire load		
Fire load MJ/m	36,365	43,448
Fire load kWh/m	10,101	12,069
Maximum forces during installation when pulling by		
Max. pulling force by pulling-eye kN	14,4	18,0
Max. pulling force by pulling-stocking kN	8,5	8,5
Minimum bending radii		
Minimum bending radius, handling mm	694	763
Minimum bending radius, final bending mm	486	534
Minimum bending radii		
During handling and installation, phase conductor cm	44	48
During handling and installation, cable cm	69	76
In final installation, phase conductor cm	31	33
In final installation, cable cm	49	53
Minimum bending radii		
During handling and installation, cable m	0,69	0,76
In final installation, cable m	0,49	0,53
DC resistance		
Max. DC resistance of conductor at 20 °C Ω/km	0,125	0,100
Maximum DC resistance at 20 °C, metal screen Ω/km	0,253	0,206

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Technical information	4x240/72	4x300/88
Current ratings		
Cables in air (25 °C)		
two loaded conductor, conductor 70 °C A	395	457
three loaded conductor, conductor 70 °C A	343	396
Cables in air (30 °C)		
two loaded conductor, conductor 70 °C A	380	439
three loaded conductor, conductor 70 °C A	330	381
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	375	430
Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m		
Cables in the ground, conductor 70 °C A	250	282
Cables in the ground in a tube, conductor 70 °C A	218	247
Maximum thermal short circuit current during 1 s		
Phase (initial 70 °C, final 160 °C) kA	17,3	21,6
Metal screen (initial 60 °C, final 250 °C) kA	11,5	14,0

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STANDARD PACKAGES	4x240/72	4x300/88
Product code	1111419	1111420
GTIN code	6410006223862	6410006223879
Package	500 K26	400 K26
Product code		1111420
GTIN code		6410006223886
Package		500 K26

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