2026-11-04 15:52:47

AXMK

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, SEK TS 424 14 18-1, HD 603 5 D & O
Certificates	SGS Fimko FI 42472 Issue 1
Reaction to fire	Eca; EN 13501-6, EN 50575:2014+A1:2016
Conductor	16-25 mm² circular stranded aluminium, EN/IEC 60228 class 2 35-300 mm² sector shaped, 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	4x16 S	4x25 S	4x35 S	4x50 S	4x70 S	4x95 S	4x120 S	4x150 S	4x185 S	4x240 S
Product code	**1116348**	**1701199**	**1116332**	**1116333**	**1116334**	**1116335**	**1116336**	**1116337**	**1116358**	**1116359**
Nominal cable diameter mm	19	22	22	26	29	33	38	42	46	53
Nominal cable weight kg/km	367	517	635	839	1148	1447	1871	2308	2810	3722
Nominal weight of Aluminium kg/km	173	266	364	500	725	961	1265	1574	1909	2603
Nominal Insulation thicness mm	0,7	0,9	0,9	1,0	1,1	1,1	1,2	1,4	1,6	1,7
Nominal thickness of oversheath mm	1,8	1,8	1,8	1,9	2,0	2,1	2,3	2,4	2,6	2,8
Fire load										
Fire load MJ/m	5,251	7,125	7,956	10,200	12,813	14,800	18,321	22,689	28,165	35,024
Fire load kWh/m	1,459	1,979	2,210	2,833	3,559	4,111	5,089	6,302	7,824	9,729
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	1,0	1,5	2,1	3,0	4,2	5,7	7,2	9,0	11,1	14,4
Max. pulling force by pulling-stocking kN	1,0	1,5	2,1	3,0	4,2	5,7	7,2	8,5	8,5	8,5
Minimum bending radii										
Minimum bending radius, handling mm	226	266	268	314	352	393	452	501	553	633
Minimum bending radius, final bending mm	158	186	188	220	247	275	317	351	387	443
Minimum bending radii										
During handling and installation, phase conductor cm	10	13	16	19	23	26	29	32	37	43
During handling and installation, cable cm	23	27	27	31	35	39	45	50	55	63
In final installation, phase conductor cm	7	8	11	13	16	18	20	23	26	30
In final installation, cable cm	16	19	19	22	25	28	32	35	39	44
Minimum bending radii										
During handling and installation, cable m	0,23	0,27	0,27	0,31	0,35	0,39	0,45	0,50	0,55	0,63
In final installation, cable m	0,16	0,19	0,19	0,22	0,25	0,28	0,32	0,35	0,39	0,44
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
Electrical values										
Calculated inductance mH/km	0,29	0,28	0,28	0,28	0,27	0,27	0,26	0,26	0,26	0,25
Calculated operation capacitance µF/km	0,30	0,29	0,29	0,29	0,29	0,29	0,28	0,28	0,28	0,27

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Technical information	4x16 S	4x25 S	4x35 S	4x50 S	4x70 S	4x95 S	4x120 S	4x150 S	4x185 S	4x240 S
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
two loaded conductor, conductor 90 °C A	95	112	140	171	219	267	312	360	413	489
three loaded conductor, conductor 90 °C A	80	101	125	152	194	236	274	316	361	425
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
two loaded conductor, conductor 90 °C A	91	108	135	164	211	257	300	346	397	470
three loaded conductor, conductor 90 °C A	77	97	120	146	187	227	263	304	347	409
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 90 °C A	64	82	98	117	144	172	197	220	250	290
Maximum thermal short circuit current during 1 s										
Phase (initial 65 °C, final 250 °C) kA	1,7	2,6	3,6	5,2	7,3	9,8	12,4	15,5	19,2	24,9
Phase (initial 90 °C, final 250 °C) kA	1,5	2,4	3,4	4,8	6,7	9,0	11,4	14,2	17,5	22,6

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2026-11-04 15:52:47

STANDARD PACKAGES	4x16 S	4x25 S	4x35 S	4x50 S	4x70 S	4x95 S	4x120 S	4x150 S	4x185 S	4x240 S
Product code	1116348	1701199	1116332	1116333	1116334	1116335	1116336	1116337	1116358	1116359
GTIN code	6410006262076	6410006262083	6410006262687	6410006262106	6410006262113	6410006262120	6410006262137	6410006262144	6410006262151	6410006262168
Package	1000 K12	1000 K16	500 K12	1000 K18	1000 K18	1000 K20	1000 K22	500 K20	500 K22	500 K22
Product code	1116348	1701199	1116332	1116333	1116334	1116335	1116336			
GTIN code	6410006262670	6410006262731	6410006262090	6410006262694	6410006262700	6410006262717	6410006262724			
Package	500 K11	500 K12	1000 K16	500 K14	500 K14	500 K16	500 K18			

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Technical information	4x300 S
Product code	**1116360**
Nominal cable diameter mm	57
Nominal cable weight kg/km	4377
Nominal weight of Aluminium kg/km	3096
Nominal Insulation thicness mm	1,8
Nominal thickness of oversheath mm	3,0
Fire load	
Fire load MJ/m	39,978
Fire load kWh/m	11,105
Maximum forces during installation when pulling by	
Max. pulling force by pulling-eye kN	18,0
Max. pulling force by pulling-stocking kN	8,5
Minimum bending radii	
Minimum bending radius, handling mm	679
Minimum bending radius, final bending mm	476
Minimum bending radii	
During handling and installation, phase conductor cm	46
During handling and installation, cable cm	68
In final installation, phase conductor cm	32
In final installation, cable cm	48
Minimum bending radii	
During handling and installation, cable m	0,68
In final installation, cable m	0,48
DC resistance	
Max. DC resistance of conductor at 20 °C Ω/km	0,100
Electrical values	
Calculated inductance mH/km	0,25
Calculated operation capacitance µF/km	0,26

Technical information	4x300 S
Current ratings	
Cables in air (25 °C)	
two loaded conductor, conductor 70 °C A	457
three loaded conductor, conductor 70 °C A	396
two loaded conductor, conductor 90 °C A	565
three loaded conductor, conductor 90 °C A	490
Cables in air (30 °C)	
two loaded conductor, conductor 70 °C A	439
three loaded conductor, conductor 70 °C A	381
two loaded conductor, conductor 90 °C A	543
three loaded conductor, conductor 90 °C A	471
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
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	326
Maximum thermal short circuit current during 1 s	
Phase (initial 65 °C, final 250 °C) kA	31,1
Phase (initial 90 °C, final 250 °C) kA	28,2

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STANDARD PACKAGES	4x300 S
Product code	1116360
GTIN code	6410006262175
Package	500 K26

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