

MCMK

Copper power cable

0,6/1 (1,2) kV

Application

Copper 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	1,5-6 mm ² circular solid copper, EN/IEC 60228 class 1 10-25 mm ² circular stranded copper, EN/IEC 60228 class 2 35-300 mm ² sector shaped stranded copper, EN/IEC 60228 class 2
Insulation	PVC-compound
Core	Blue, brown
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	2x1,5/1,5	2x2,5/2,5	2x6/6	2x10/10	2x16/16	3x2,5/2,5	3x6/6	3x10/10	3x16/16	3x25/16
Product code	1106105	1106106	1106108	1106149	1106150	1106306	1106308	1106302	1106310	1106304
Nominal cross-sectional area of conductor mm ²	1,5	2,5	6	10	16	2,5	6	10	16	25
Nominal thickness of insulation mm	0,8	0,8	1,0	1,0	1,0	0,8	1,0	1,0	1,0	1,2
Nominal size of metal screen mm ²	1,5	2,5	6	10	16	2,5	6	10	16	16
Nominal thickness of oversheath mm	1,8	1,8	1,8	1,8	1,8	1,8	1,8	1,8	1,8	1,8
Fire load MJ/m	2,759	3,101	4,649	6,314		2,352	3,418	4,588	5,532	7,064
Fire load kWh/m	0,766	0,861	1,291	1,754		0,653	0,950	1,274	1,537	1,962
Nominal cable diameter mm	11,430	12,150	15,610	18,390	21,670	11,990	15,270	18,230	20,870	25,180
Nominal cable weight kg/km	177,990	219,430	384,245	563,846	824,499	201,951	384,230	575,067	831,611	1157,535
Nominal weight of copper kg/m	0,041	0,066	0,164	0,266	0,425	0,088	0,218	0,352	0,562	0,817
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,2	0,3	0,6	1,0	1,6	0,4	0,9	1,5	2,4	3,8
Max. pulling force by pulling-stocking kN	0,1	0,1	0,2	0,3	0,5	0,1	0,3	0,5	0,7	1,1
Minimum bending radii										
During handling and installation, cable cm	14	15	19	22	26	14	18	22	25	30
In final installation, cable cm	10	10	13	15	18	10	13	15	18	21
Minimum bending radii										
During handling and installation, cable m	0,14	0,15	0,19	0,22	0,26	0,14	0,18	0,22	0,25	0,30
In final installation, cable m	0,10	0,10	0,13	0,15	0,18	0,10	0,13	0,15	0,17	0,21
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	12,1	7,41	3,08	1,83	1,15	7,41	3,08	1,83	1,15	0,727
Maximum DC resistance at 20 °C, metal screen Ω/km	12,1	7,41	3,08	1,83	1,15	7,41	3,08	1,83	1,15	1,15

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Technical information	2x1,5/1,5	2x2,5/2,5	2x6/6	2x10/10	2x16/16	3x2,5/2,5	3x6/6	3x10/10	3x16/16	3x25/16
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	23	31	53	73	98	31	53	73	98	124
three loaded conductor, conductor 70 °C A						26	45	62	83	105
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	22	30	51	70	94	30	51	70	94	119
three loaded conductor, conductor 70 °C A						25	43	60	80	101
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	26	35	57	77	100	35	57	77	100	130
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	22	28	48	64	83	24	41	54	70	92
Cables in the ground in a tube, conductor 70 °C A	22	29	46	60	78	24	38	50	64	82
Maximum thermal short circuit current during 1 s										
Phase (initial 70 °C, final 160 °C) kA	0,1	0,3	0,7	1,1	1,8	0,3	0,7	1,1	1,8	2,8
Metal screen (initial 60 °C, final 250 °C) kA	0,2	0,4	1,0	1,6	2,5	0,4	1,0	1,6	2,5	2,5

Technical information	3x35/16	3x50/25	3x70/35	3x95/50	3x120/70	3x150/70	3x185/95	3x240/120	3x300/150	4x1,5/1,5
Product code	1106312	1106313	1106314	1106315	1106316	1106317	1106318	1106319	1106320	1106435
Nominal cross-sectional area of conductor mm ²	35	50	70	95	120	150	185	240	300	1,5
Nominal thickness of insulation mm	1,2	1,4	1,4	1,6	1,6	1,8	2,0	2,2	2,4	0,8
Nominal size of metal screen mm ²	16	25	35	50	70	70	95	120	150	1,5
Nominal thickness of oversheath mm	1,8	1,9	2,0	2,2	2,3	2,4	2,6	2,8	3,0	1,8
Fire load MJ/m	7,359	9,130	11,098	14,597	16,420	19,568	24,224	29,682	35,099	2,422
Fire load kWh/m	2,044	2,536	3,083	4,055	4,561	5,436	6,729	8,245	9,750	0,673
Nominal cable diameter mm	24,080	27,550	30,770	34,900	38,320	41,900	47,590	53,180	57,620	11,960
Nominal cable weight kg/km	1407,464	1937,327	2625,500	3601,559	4511,598	5414,315	6862,001	8920,097	11091,312	183,915
Nominal weight of copper kg/m	1,057	1,494	2,093	2,907	3,730	4,479	5,700	7,492	9,397	0,066
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	5,3	7,5	10,5	14,3	18,0	20,0	20,0	20,0	20,0	0,3
Max. pulling force by pulling-stocking kN	1,6	2,3	3,2	4,3	5,4	6,8	8,3	8,5	8,5	0,1
Minimum bending radii										
During handling and installation, cable cm	29	33	37	42	46	50	57	64	69	14
In final installation, cable cm	20	23	26	29	32	35	40	45	48	10
Minimum bending radii										
During handling and installation, cable m	0,29	0,33	0,37	0,42	0,46	0,50	0,57	0,64	0,69	0,14
In final installation, cable m	0,20	0,23	0,26	0,29	0,32	0,35	0,40	0,45	0,48	0,10
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	0,524	0,387	0,268	0,193	0,153	0,124	0,0991	0,0754	0,0601	12,1
Maximum DC resistance at 20 °C, metal screen Ω/km	1,15	0,727	0,524	0,387	0,268	0,268	0,193	0,153	0,124	12,1

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Technical information	3x35/16	3x50/25	3x70/35	3x95/50	3x120/70	3x150/70	3x185/95	3x240/120	3x300/150	4x1,5/1,5
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	154	187	241	293	341	394	451	535	617	23
three loaded conductor, conductor 70 °C A	131	159	204	248	287	332	379	447	517	19
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	148	180	232	282	328	379	434	514	593	22
three loaded conductor, conductor 70 °C A	126	153	196	238	276	319	364	430	497	18,5
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	160	190	240	285	325	370	420	480	550	26
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	110	130	162	193	220	246	278	320	359	19
Cables in the ground in a tube, conductor 70 °C A	98	116	143	169	192	217	243	280	316	18
Maximum thermal short circuit current during 1 s										
Phase (initial 70 °C, final 160 °C) kA	3,9	5,5	7,7	10,5	13,2	16,5	20,3	26,3	32,8	0,1
Metal screen (initial 60 °C, final 250 °C) kA	2,5	4,0	5,6	8,0	11,1	11,1	15,1	19,1	23,9	0,2

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Technical information	4x2,5/2,5	4x6/6	4x16/16	4x10/10	4x25/16	4x35/16	4x50/25	4x70/35	4x95/50	4x150/70
Product code	1106436	1106438	1106410	1106449	1106411	1106412	1106413	1106414	1106415	1106417
Nominal cross-sectional area of conductor mm ²	2,5	6	16	10	25	35	50	70	95	150
Nominal thickness of insulation mm	0,8	1,0	1,0	1,0	1,2	1,2	1,4	1,4	1,6	1,8
Nominal size of metal screen mm ²	2,5	6	16	10	16	16	25	35	50	70
Nominal thickness of oversheath mm	1,8	1,8	1,8	1,8	1,8	1,8	2,0	2,1	2,3	2,6
Fire load MJ/m	2,667	3,934	6,481	5,431	8,376	8,921	12,028	13,860	17,920	24,008
Fire load kWh/m	0,741	1,093	1,800	1,509	2,327	2,478	3,341	3,850	4,978	6,669
Nominal cable diameter mm	12,860	16,500	22,700	19,790	27,190	26,290	30,470	33,620	38,530	45,620
Nominal cable weight kg/km	239,441	465,309	1019,176	703,147	1444,108	1786,980	2484,870	3345,397	4588,014	6910,633
Nominal weight of copper kg/m	0,109	0,272	0,700	0,438	1,039	1,360	1,914	2,687	3,732	5,758
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,5	1,2	3,2	2,0	5,0	7,0	10,0	14,0	19,0	20,0
Max. pulling force by pulling-stocking kN	0,2	0,4	1,0	0,6	1,5	2,1	3,0	4,2	5,7	8,5
Minimum bending radii										
During handling and installation, cable cm	15	20	27	24	33	32	37	40	46	55
In final installation, cable cm	11	14	19	17	23	22	26	28	32	38
Minimum bending radii										
During handling and installation, cable m	0,15	0,20	0,27	0,24	0,33	0,32	0,37	0,40	0,46	0,55
In final installation, cable m	0,11	0,14	0,19	0,17	0,23	0,22	0,26	0,28	0,32	0,38
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	7,41	3,08	1,15	1,83	0,727	0,524	0,387	0,268	0,193	0,124
Maximum DC resistance at 20 °C, metal screen Ω/km	7,41	3,08	1,15	1,83	1,15	1,15	0,727	0,524	0,387	0,268

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Technical information	4x2,5/2,5	4x6/6	4x16/16	4x10/10	4x25/16	4x35/16	4x50/25	4x70/35	4x95/50	4x150/70
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	31	53	98	73	124	154	187	241	293	394
three loaded conductor, conductor 70 °C A	26	45	83	62	105	131	159	204	248	332
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	30	51	94	70	119	148	180	232	282	379
three loaded conductor, conductor 70 °C A	25	43	80	60	101	126	153	196	238	319
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	35	57	100	77	130	160	190	240	285	370
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	24	41	70	54	92	110	130	162	193	246
Cables in the ground in a tube, conductor 70 °C A	24	38	64	50	82	98	116	143	169	217
Maximum thermal short circuit current during 1 s										
Phase (initial 70 °C, final 160 °C) kA	0,3	0,7	1,8	1,1	2,8	3,9	5,5	7,7	10,5	16,5
Metal screen (initial 60 °C, final 250 °C) kA	0,4	1,0	2,5	1,6	2,5	2,5	4,0	5,6	8,0	11,1

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Technical information	4x120/70	4x185/95	4x240/120	4x300/150
Product code	1106416	1106418	1106419	1106421
Nominal cross-sectional area of conductor mm ²	120	185	240	300
Nominal thickness of insulation mm	1,6	2,0	2,2	2,4
Nominal size of metal screen mm ²	70	95	120	150
Nominal thickness of oversheath mm	2,4	2,8	3,0	3,2
Fire load MJ/m	19,881	30,547	37,412	43,817
Fire load kWh/m	5,522	8,485	10,392	12,171
Nominal cable diameter mm	41,900	53,250	59,520	64,710
Nominal cable weight kg/km	5690,985	8783,287	11449,047	14173,787
Nominal weight of copper kg/m	4,769	7,312	9,641	12,051
Maximum forces during installation when pulling by				
Max. pulling force by pulling-eye kN	20,0	20,0	20,0	20,0
Max. pulling force by pulling-stocking kN	7,2	8,5	8,5	8,5
Minimum bending radii				
During handling and installation, cable cm	50	64	71	78
In final installation, cable cm	35	45	50	54
Minimum bending radii				
During handling and installation, cable m	0,50	0,64	0,71	0,78
In final installation, cable m	0,35	0,45	0,50	0,54
DC resistance				
Max. DC resistance of conductor at 20 °C Ω/km	0,153	0,0991	0,0754	0,0601
Maximum DC resistance at 20 °C, metal screen Ω/km	0,268	0,193	0,153	0,124

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Technical information	4x120/70	4x185/95	4x240/120	4x300/150
Current ratings				
Cables in air (25 °C)				
two loaded conductor, conductor 70 °C A	341	451	535	617
three loaded conductor, conductor 70 °C A	287	379	447	517
Cables in air (30 °C)				
two loaded conductor, conductor 70 °C A	328	434	514	593
three loaded conductor, conductor 70 °C A	276	364	430	497
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	325	420	480	550
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	220	278	320	359
Cables in the ground in a tube, conductor 70 °C A	192	243	280	316
Maximum thermal short circuit current during 1 s				
Phase (initial 70 °C, final 160 °C) kA	13,2	20,3	26,3	32,8
Metal screen (initial 60 °C, final 250 °C) kA	11,1	15,1	19,1	23,9