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 mm² circular solid copper, EN/IEC 60228 class 1 10-25 mm² circular stranded copper, EN/IEC 60228 class 2 35-300 mm² sector shaped stranded copper, EN/IEC 60228 class 2
Insulation	PVC-compound
Core Identification	Blue, brown 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	3x10/10	3x25/16	3x35/16	3x50/25	3x70/35	3x95/50
Product code	**1106105**	**1106106**	**1106108**	**1106149**	**1106302**	**1106304**	**1106312**	**1106313**	**1106314**	**1106315**
Nominal cable diameter mm	11	12	16	18	18	25	24	28	31	35
Nominal cable weight kg/km	178	219	384	564	575	1158	1407	1937	2625	3602
Nominal weight of copper kg/km	41	66	164	266	352	817	1057	1494	2093	2907
Nominal Insulation thicness mm	0,8	0,8	1,0	1,0	1,0	1,2	1,2	1,4	1,4	1,6
Nominal size of metal screen mm²	1,5	2,5	6	10	10	16	16	25	35	50
Nominal thickness of oversheath mm	1,8	1,8	1,8	1,8	1,8	1,8	1,8	1,9	2,0	2,2
Fire load										
Fire load MJ/m	2,759	3,101	4,649	6,314	4,588	7,064	7,359	9,130	11,098	14,597
Fire load kWh/m	0,766	0,861	1,291	1,754	1,274	1,962	2,044	2,536	3,083	4,055
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,2	0,3	0,6	1,0	1,5	3,8	5,3	7,5	10,5	14,3
Max. pulling force by pulling-stocking kN	0,1	0,1	0,2	0,3	0,5	1,1	1,6	2,3	3,2	4,3
Minimum bending radii										
Minimum bending radius, handling mm	137	146	187	221	219	302	289	331	369	419
Minimum bending radius, final bending mm	96	102	131	154	153	212	202	231	258	293
Minimum bending radii										
During handling and installation, cable cm	14	15	19	22	22	30	29	33	37	42
In final installation, cable cm	10	10	13	15	15	21	20	23	26	29
Minimum bending radii										
During handling and installation, cable m	0,14	0,15	0,19	0,22	0,22	0,30	0,29	0,33	0,37	0,42
In final installation, cable m	0,10	0,10	0,13	0,15	0,15	0,21	0,20	0,23	0,26	0,29
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	12,1	7,41	3,08	1,83	1,83	0,727	0,524	0,387	0,268	0,193
Maximum DC resistance at 20 °C, metal screen Ω/km	12,1	7,41	3,08	1,83	1,83	1,15	1,15	0,727	0,524	0,387

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Technical information	2x1,5/1,5	2x2,5/2,5	2x6/6	2x10/10	3x10/10	3x25/16	3x35/16	3x50/25	3x70/35	3x95/50
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	23	31	53	73	73	124	154	187	241	293
three loaded conductor, conductor 70 °C A					62	105	131	159	204	248
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	22	30	51	70	70	119	148	180	232	282
three loaded conductor, conductor 70 °C A					60	101	126	153	196	238
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	77	130	160	190	240	285
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	54	92	110	130	162	193
Cables in the ground in a tube, conductor 70 °C A	22	29	46	60	50	82	98	116	143	169
Maximum thermal short circuit current during 1 s										
Phase (initial 70 °C, final 160 °C) kA	0,1	0,3	0,7	1,1	1,1	2,8	3,9	5,5	7,7	10,5
Metal screen (initial 60 °C, final 250 °C) kA	0,2	0,4	1,0	1,6	1,6	2,5	2,5	4,0	5,6	8,0

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STANDARD PACKAGES	2x1,5/1,5	2x2,5/2,5	2x6/6	2x10/10	3x10/10	3x25/16	3x35/16	3x50/25	3x70/35	3x95/50
Product code	1106105	1106106	1106108	1106149	1106302	1106304	1106312	1106313	1106314	1106315
GTIN code	6410006031221	6410006031030	6410006031061	6410006031184	6410006031566	6410006031580	6410006031597	6410006031603	6410006031610	6410006031627
Package	1000 K9	50 bundle	500 K10	2000 K18	1000 K12	1000 K16	1000 K16	1000 K18	1000 K20	1000 K22
Product code	1106105	1106106	1106108	1106149	1106302	1106304	1106312	1106313	1106314	1106315
GTIN code	6410006031146	6410006031238	6410006031245	6410006031108	6410006031283	6410006031672	6410006031689	6410006031696	6410006031702	6410006031719
Package	500 K7	1000 K9	2000 K16	500 K11	500 K11	500 K12	500 K12	500 K14	500 K14	500 K16
Product code	1106105	1106106	1106108	1106149						
GTIN code	6410006031023	6410006031139	6410006031252	6410006031269						
Package	50 bundle	100 bundle	1000 K11	1000 K12						
Product code	1106105	1106106								
GTIN code	6410006031122	6410006031153								
Package	100 bundle	500 K8								
Product code	1106105	1106106								
GTIN code	6410006031160	6410006031177								
Package	200 spool	150 spool								

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Technical information	3x120/70	3x150/70	3x185/95	3x240/120	3x300/150	4x1,5/1,5	4x2,5/2,5	4x6/6	4x16/16	4x10/10
Product code	**1106316**	**1106317**	**1106318**	**1106319**	**1106320**	**1106435**	**1106436**	**1106438**	**1106410**	**1106449**
Nominal cable diameter mm	38	42	48	53	58	12	13	17	23	20
Nominal cable weight kg/km	4512	5414	6862	8920	11091	184	239	465	1019	703
Nominal weight of copper kg/km	3730	4479	5700	7492	9397	66	109	272	700	438
Nominal Insulation thicness mm	1,6	1,8	2,0	2,2	2,4	0,8	0,8	1,0	1,0	1,0
Nominal size of metal screen mm²	70	70	95	120	150	1,5	2,5	6	16	10
Nominal thickness of oversheath mm	2,3	2,4	2,6	2,8	3,0	1,8	1,8	1,8	1,8	1,8
Fire load										
Fire load MJ/m	16,420	19,568	24,224	29,682	35,099	2,422	2,667	3,934	6,481	5,431
Fire load kWh/m	4,561	5,436	6,729	8,245	9,750	0,673	0,741	1,093	1,800	1,509
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	18,0	20,0	20,0	20,0	20,0	0,3	0,5	1,2	3,2	2,0
Max. pulling force by pulling-stocking kN	5,4	6,8	8,3	8,5	8,5	0,1	0,2	0,4	1,0	0,6
Minimum bending radii										
Minimum bending radius, handling mm	460	503	571	638	691	144	154	198	272	237
Minimum bending radius, final bending mm	322	352	400	447	484	100	108	139	191	166
Minimum bending radii										
During handling and installation, cable cm	46	50	57	64	69	14	15	20	27	24
In final installation, cable cm	32	35	40	45	48	10	11	14	19	17
Minimum bending radii										
During handling and installation, cable m	0,46	0,50	0,57	0,64	0,69	0,14	0,15	0,20	0,27	0,24
In final installation, cable m	0,32	0,35	0,40	0,45	0,48	0,10	0,11	0,14	0,19	0,17
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	0,153	0,124	0,0991	0,0754	0,0601	12,1	7,41	3,08	1,15	1,83
Maximum DC resistance at 20 °C, metal screen Ω/km	0,268	0,268	0,193	0,153	0,124	12,1	7,41	3,08	1,15	1,83

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Technical information	3x120/70	3x150/70	3x185/95	3x240/120	3x300/150	4x1,5/1,5	4x2,5/2,5	4x6/6	4x16/16	4x10/10
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	341	394	451	535	617	23	31	53	98	73
three loaded conductor, conductor 70 °C A	287	332	379	447	517	19	26	45	83	62
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	328	379	434	514	593	22	30	51	94	70
three loaded conductor, conductor 70 °C A	276	319	364	430	497	18,5	25	43	80	60
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	370	420	480	550	26	35	57	100	77
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	246	278	320	359	19	24	41	70	54
Cables in the ground in a tube, conductor 70 °C A	192	217	243	280	316	18	24	38	64	50
Maximum thermal short circuit current during 1 s										
Phase (initial 70 °C, final 160 °C) kA	13,2	16,5	20,3	26,3	32,8	0,1	0,3	0,7	1,8	1,1
Metal screen (initial 60 °C, final 250 °C) kA	11,1	11,1	15,1	19,1	23,9	0,2	0,4	1,0	2,5	1,6

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STANDARD PACKAGES	3x120/70	3x150/70	3x185/95	3x240/120	3x300/150	4x1,5/1,5	4x2,5/2,5	4x6/6	4x16/16	4x10/10
Product code	1106316	1106317	1106318	1106319	1106320	1106435	1106436	1106438	1106410	1106449
GTIN code	6410006031634	6410006031641	6410006031658	6410006031665	6438176305461	6410006031726	6410006031733	6410006031757	6410006031771	6410006031764
Package	500 K18	500 K20	500 K22	500 K24	400 K26	1000 K9	1000 K9	1000 K12	1000 K16	1000 K14
Product code						1106435	1106436	1106438	1106410	1106449
GTIN code						6410006031900	6410006031917	6410006031795	6410006031344	6410006031313
Package						500 K7	500 K8	50 bundle	500 K12	500 K11
Product code						1106435	1106436	1106438		
GTIN code						6410006031924	6410006031870	6410006031306		
Package						100 bundle	150 spool	500 K10		
Product code						1106435	1106436	1106438		
GTIN code						6410006031849	6410006031931	6438176305744		
Package						50 bundle	100 bundle	200 MK6		
Product code						1106435	1106436			
GTIN code						6410006031863	6410006031856			
Package						150 spool	50 bundle			

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Technical information	4x25/16	4x35/16	4x50/25	4x70/35	4x95/50	4x150/70	4x120/70	4x185/95	4x240/120	4x300/150
Product code	**1106411**	**1106412**	**1106413**	**1106414**	**1106415**	**1106417**	**1106416**	**1106418**	**1106419**	**1106421**
Nominal cable diameter mm	27	26	30	34	39	46	42	53	60	65
Nominal cable weight kg/km	1444	1787	2485	3345	4588	6911	5691	8783	11449	14174
Nominal weight of copper kg/km	1039	1360	1914	2687	3732	5758	4769	7312	9641	12051
Nominal Insulation thicness mm	1,2	1,2	1,4	1,4	1,6	1,8	1,6	2,0	2,2	2,4
Nominal size of metal screen mm²	16	16	25	35	50	70	70	95	120	150
Nominal thickness of oversheath mm	1,8	1,8	2,0	2,1	2,3	2,6	2,4	2,8	3,0	3,2
Fire load										
Fire load MJ/m	8,376	8,921	12,027	13,860	17,920	24,008	19,881	30,547	37,412	43,817
Fire load kWh/m	2,327	2,478	3,341	3,850	4,978	6,669	5,522	8,485	10,392	12,171
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	5,0	7,0	10,0	14,0	19,0	20,0	20,0	20,0	20,0	20,0
Max. pulling force by pulling-stocking kN	1,5	2,1	3,0	4,2	5,7	8,5	7,2	8,5	8,5	8,5
Minimum bending radii										
Minimum bending radius, handling mm	326	315	366	403	462	547	503	639	714	777
Minimum bending radius, final bending mm	228	221	256	282	324	383	352	447	500	544
Minimum bending radii										
During handling and installation, cable cm	33	32	37	40	46	55	50	64	71	78
In final installation, cable cm	23	22	26	28	32	38	35	45	50	54
Minimum bending radii										
During handling and installation, cable m	0,33	0,32	0,37	0,40	0,46	0,55	0,50	0,64	0,71	0,78
In final installation, cable m	0,23	0,22	0,26	0,28	0,32	0,38	0,35	0,45	0,50	0,54
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	0,727	0,524	0,387	0,268	0,193	0,124	0,153	0,0991	0,0754	0,0601
Maximum DC resistance at 20 °C, metal screen Ω/km	1,15	1,15	0,727	0,524	0,387	0,268	0,268	0,193	0,153	0,124

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Technical information	4x25/16	4x35/16	4x50/25	4x70/35	4x95/50	4x150/70	4x120/70	4x185/95	4x240/120	4x300/150
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	124	154	187	241	293	394	341	451	535	617
three loaded conductor, conductor 70 °C A	105	131	159	204	248	332	287	379	447	517
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	119	148	180	232	282	379	328	434	514	593
three loaded conductor, conductor 70 °C A	101	126	153	196	238	319	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	130	160	190	240	285	370	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	92	110	130	162	193	246	220	278	320	359
Cables in the ground in a tube, conductor 70 °C A	82	98	116	143	169	217	192	243	280	316
Maximum thermal short circuit current during 1 s										
Phase (initial 70 °C, final 160 °C) kA	2,8	3,9	5,5	7,7	10,5	16,5	13,2	20,3	26,3	32,8
Metal screen (initial 60 °C, final 250 °C) kA	2,5	2,5	4,0	5,6	8,0	11,1	11,1	15,1	19,1	23,9

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STANDARD PACKAGES	4x25/16	4x35/16	4x50/25	4x70/35	4x95/50	4x150/70	4x120/70	4x185/95	4x240/120	4x300/150
Product code	1106411	1106412	1106413	1106414	1106415	1106417	1106416	1106418	1106419	1106421
GTIN code	6410006023882	6410006023790	6410006023776	6410006023783	6410006023820	6410006023844	6410006023837	6410006023851	6410006023868	6438176305478
Package	1000 K18	1000 K18	500 K14	500 K16	500 K18	500 K22	500 K20	500 K24	400 K26	400 K26
Product code	1106411	1106412	1106413	1106414						
GTIN code	6410006023899	6410006023769	6410006023806	6410006023813						
Package	500 K14	500 K14	1000 K20	1000 K22						

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