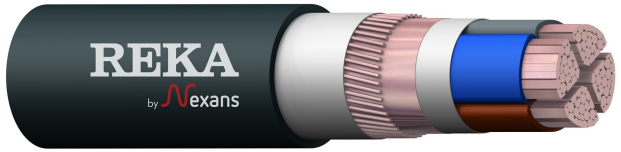
EMCMK-HF D / FXQJ-EMC D / IFSI-EMC-Cu D

Copper power cable EMC

0,6/1 (1,2) kV



Application

Copper power cable for fixed installations indoors and outdoors. May be buried directly in soil. EMC shielded cable gives an excellent protection against electromagnetic disturbancies. 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	35-300 mm² sector shaped stranded copper, 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	3x35/16	3x50/25	3x70/35	3x95/50	3x120/70	3x150/70	3x185/95	3x240/120	3x300/150	4x35/16
Product code	**1256647**	**1256648**	**1256649**	**1256650**	**1256651**	**1256652**	**1256653**	**1256654**	**1256655**	**1256664**
Nominal cable diameter mm	23	26	30	33	37	40	45	51	54	26
Nominal cable weight kg/km	1330	1820	2520	3401	4326	5186	6555	8535	10566	1689
Nominal weight of copper kg/km	1045	1483	2083	2893	3710	4458	5672	7461	9353	1348
Nominal Insulation thicness mm	0,9	1,0	1,1	1,1	1,2	1,4	1,6	1,7	1,8	0,9
Nominal size of metal screen mm²	16	25	35	50	70	70	95	120	150	16
Nominal thickness of oversheath mm	1,8	1,8	2,0	2,1	2,3	2,4	2,5	2,7	2,9	1,8
Fire load										
Fire load MJ/m	6,647	8,075	10,643	12,329	15,243	18,536	22,964	27,944	31,567	8,294
Fire load kWh/m	1,846	2,243	2,956	3,425	4,234	5,149	6,379	7,762	8,769	2,304
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	7,0
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	2,1
Minimum bending radii										
Minimum bending radius, handling mm	276	315	364	401	440	479	540	611	646	311
Minimum bending radius, final bending mm	193	221	255	281	308	336	378	428	452	218
Minimum bending radii										
During handling and installation, cable cm	28	32	36	40	44	48	54	61	65	31
In final installation, cable cm	19	22	25	28	31	34	38	43	45	22
Minimum bending radii										
During handling and installation, cable m	0,28	0,32	0,36	0,40	0,44	0,48	0,54	0,61	0,65	0,31
In final installation, cable m	0,19	0,22	0,26	0,28	0,31	0,34	0,38	0,43	0,45	0,22
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	0,524
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	1,15

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Technical information	3x35/16	3x50/25	3x70/35	3x95/50	3x120/70	3x150/70	3x185/95	3x240/120	3x300/150	4x35/16
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	154	187	241	293	341	394	451	535	617	154
three loaded conductor, conductor 70 °C A	131	159	204	248	287	332	379	447	517	131
two loaded conductor, conductor 90 °C A	192	234	301	366	426	492	564	667	771	192
three loaded conductor, conductor 90 °C A	164	200	256	310	360	415	474	560	646	164
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	148	180	232	282	328	379	434	514	593	148
three loaded conductor, conductor 70 °C A	126	153	196	238	276	319	364	430	497	126
two loaded conductor, conductor 90 °C A	185	225	289	352	410	473	542	641	741	185
three loaded conductor, conductor 90 °C A	158	192	246	298	346	399	456	538	621	158
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	160
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	129	153	188	226	257	287	324	375	419	129
Maximum thermal short circuit current during 1 s										
Phase (initial 65 °C, final 250 °C) kA	5,5	7,8	10,9	14,9	18,8	23,5	28,9	37,5	46,9	5,5
Phase (initial 90 °C, final 250 °C) kA	5,0	7,2	10,0	13,6	17,2	21,5	26,5	34,3	43,1	5,0
Metal screen (initial 80 °C, final 250 °C) kA	2,4	3,7	5,2	7,4	10,4	10,4	14,1	17,8	22,2	2,4

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STANDARD PACKAGES	3x35/16	3x50/25	3x70/35	3x95/50	3x120/70	3x150/70	3x185/95	3x240/120	3x300/150	4x35/16
Product code	1256647	1256648	1256649	1256650	1256651	1256652	1256653	1256654		1256664
GTIN code	6438176115695	6438176115701	6438176115732	6438176115749	6438176115763	6438176115787	6438176115800	6438176115824		6438176116067
Package	1000 K16	500 K14	1000 K20	500 K16	500 K18	500 K20	500 K22	500 K22		1000 K16
Product code	1256647	1256648	1256649	1256650	1256651					1256664
GTIN code	6438176115688	6438176115718	6438176115725	6438176115756	6438176115770					6438176116050
Package	500 K12	1000 K18	500 K14	1000 K22	1000 K22					500 K12

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Technical information	4x50/25	4x70/35	4x95/50	4x120/70	4x150/70	4x185/95	4x240/120	4x300/150
Product code	**1256665**	**1256666**	**1256667**	**1256668**	**1256669**	**1256670**	**1256671**	**1256672**
Nominal cable diameter mm	29	34	37	42	45	51	56	61
Nominal cable weight kg/km	2319	3209	4332	5500	6637	8387	10896	13539
Nominal weight of copper kg/km	1903	2675	3716	4747	5744	7281	9581	12021
Nominal Insulation thicness mm	1,0	1,1	1,1	1,2	1,4	1,6	1,7	1,8
Nominal size of metal screen mm²	25	35	50	70	70	95	120	150
Nominal thickness of oversheath mm	1,9	2,1	2,2	2,4	2,5	2,7	2,9	3,1
Fire load								
Fire load MJ/m	10,298	13,341	15,362	19,046	23,292	29,361	35,026	40,383
Fire load kWh/m	2,861	3,706	4,267	5,290	6,470	8,156	9,729	11,217
Maximum forces during installation when pulling by								
Max. pulling force by pulling-eye kN	10,0	14,0	19,0	20,0	20,0	20,0	20,0	20,0
Max. pulling force by pulling-stocking kN	3,0	4,2	5,7	7,2	8,5	8,5	8,5	8,5
Minimum bending radii								
Minimum bending radius, handling mm	354	408	449	498	544	611	676	733
Minimum bending radius, final bending mm	247	286	314	349	381	428	473	513
Minimum bending radii								
During handling and installation, cable cm	35	41	45	50	54	61	68	73
In final installation, cable cm	25	29	31	35	38	43	47	51
Minimum bending radii								
During handling and installation, cable m	0,35	0,41	0,45	0,50	0,54	0,61	0,68	0,73
In final installation, cable m	0,25	0,29	0,31	0,35	0,38	0,43	0,47	0,51
DC resistance								
Max. DC resistance of conductor at 20 °C Ω/km	0,387	0,268	0,193	0,153	0,124	0,0991	0,0754	0,0601
Maximum DC resistance at 20 °C, metal screen Ω/km	0,727	0,524	0,387	0,268	0,268	0,193	0,153	0,124

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Technical information	4x50/25	4x70/35	4x95/50	4x120/70	4x150/70	4x185/95	4x240/120	4x300/150
Current ratings								
Cables in air (25 °C)								
two loaded conductor, conductor 70 °C A	187	241	293	341	394	451	535	617
three loaded conductor, conductor 70 °C A	159	204	248	287	332	379	447	517
two loaded conductor, conductor 90 °C A	234	301	366	426	492	564	667	771
three loaded conductor, conductor 90 °C A	200	256	310	360	415	474	560	646
Cables in air (30 °C)								
two loaded conductor, conductor 70 °C A	180	232	282	328	379	434	514	593
three loaded conductor, conductor 70 °C A	153	196	238	276	319	364	430	497
two loaded conductor, conductor 90 °C A	225	289	352	410	473	542	641	741
three loaded conductor, conductor 90 °C A	192	246	298	346	399	456	538	621
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	190	240	285	325	370	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 90 °C A	153	188	226	257	287	324	375	419
Maximum thermal short circuit current during 1 s								
Phase (initial 65 °C, final 250 °C) kA	7,8	10,9	14,9	18,8	23,5	28,9	37,5	46,9
Phase (initial 90 °C, final 250 °C) kA	7,2	10,0	13,6	17,2	21,5	26,5	34,3	43,1
Metal screen (initial 80 °C, final 250 °C) kA	3,7	5,2	7,4	10,4	10,4	14,1	17,8	22,2

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STANDARD PACKAGES	4x50/25	4x70/35	4x95/50	4x120/70	4x150/70	4x185/95	4x240/120	4x300/150
Product code	1256665	1256666	1256667	1256668	1256669	1256670	1256671	
GTIN code	6438176116081	6438176116098	6438176116111	6438176116135	6438176116159	6438176116173	6438176116197	
Package	1000 K18	500 K16	500 K18	500 K20	500 K20	500 K22	400 K26	
Product code	1256665	1256666	1256667	1256668				
GTIN code	6438176116074	6438176116104	6438176116128	6438176116142				
Package	500 K14	1000 K20	1000 K22	1000 K24				

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