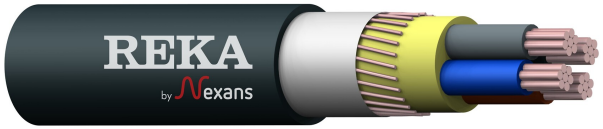
XCMK-HF C / EXQJ C / FXQJ C / IFSI-Cu C

Copper power cable HF

0,6/1 (1,2) kV



Application

Copper power cable for fixed installations indoors and outdoors. May be buried directly in soil. Can also be used in medical facilities where higher fire class is required. 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 Cca-s1,d1,a1.

Design

Standards	SFS 5546, SEK TS 424 14 18-1, HD 604 5 I & D, IEC 60502-1
Reaction to fire	Cca-s1,d1,a1; 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	Cross-linked polyethylene XLPE
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 polyolefin 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	-50
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	2x4/4	2x6/6	2x10/10	2x16/16	2x25/16	2x35/16	3x1,5/1,5	3x2,5/2,5
Product code	**1146403**	**1146404**	**1146405**	**1146406**	**1146407**	**1146408**	**1146409**	**1146410**	**1146415**	**1146416**
Nominal cable diameter mm	12	13	14	15	18	20	24	25	12	13
Nominal cable weight kg/km	192	239	306	389	570	828	1139	1341	207	259
Nominal weight of copper kg/km	41	70	109	163	266	423	596	754	54	87
Nominal Insulation thicness mm	0,7	0,7	0,7	0,7	0,7	0,7	0,9	0,9	0,7	0,7
Nominal size of metal screen mm²	1,5	2,5	4	6	10	16	16	16	1,5	2,5
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										
Fire load MJ/m	2,044	2,272	2,630	2,977	3,992	5,352	6,960	7,469	2,242	2,513
Fire load kWh/m	0,568	0,631	0,730	0,827	1,109	1,487	1,933	2,075	0,623	0,698
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,2	0,3	0,4	0,6	1,0	1,6	2,5	3,5	0,2	0,4
Max. pulling force by pulling-stocking kN	0,1	0,1	0,1	0,2	0,3	0,5	0,8	1,1	0,1	0,1
Minimum bending radii										
Minimum bending radius, handling mm	142	151	165	178	211	246	288	300	147	156
Minimum bending radius, final bending mm	99	105	116	124	148	172	201	210	103	109
Minimum bending radii										
During handling and installation, cable cm	14	15	17	18	21	25	29	30	15	16
In final installation, cable cm	10	11	12	12	15	17	20	21	10	11
Minimum bending radii										
During handling and installation, cable m	0,14	0,15	0,17	0,18	0,21	0,25	0,29	0,30	0,15	0,16
In final installation, cable m	0,10	0,10	0,12	0,12	0,15	0,17	0,20	0,21	0,10	0,11
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	12,1	7,41	4,61	3,08	1,83	1,15	0,727	0,524	12,1	7,41
Maximum DC resistance at 20 °C, metal screen Ω/km	12,1	7,41	4,61	3,08	1,83	1,15	1,15	1,15	12,1	7,41

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Technical information	2x1,5/1,5	2x2,5/2,5	2x4/4	2x6/6	2x10/10	2x16/16	2x25/16	2x35/16	3x1,5/1,5	3x2,5/2,5
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	23	31	42	53	73	98	124	154	23	31
three loaded conductor, conductor 70 °C A									19	26
two loaded conductor, conductor 90 °C A	27	37	51	66	89	120	155	192	27	37
three loaded conductor, conductor 90 °C A									24	33
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	22	30	40	51	70	94	119	148	22	30
three loaded conductor, conductor 70 °C A									18,5	25
two loaded conductor, conductor 90 °C A	26	36	49	63	86	115	149	185	26	36
three loaded conductor, conductor 90 °C A									23	32
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	46	57	77	100	130	160	26	35
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	27	35	46	58	77	100	129	155	23	30
Maximum thermal short circuit current during 1 s										
Phase (initial 65 °C, final 250 °C) kA	0,2	0,3	0,6	0,9	1,6	2,5	3,9	5,5	0,2	0,3
Phase (initial 90 °C, final 250 °C) kA	0,2	0,3	0,5	0,8	1,4	2,3	3,6	5,0	0,2	0,3
Metal screen (initial 80 °C, final 250 °C) kA	0,2	0,4	0,6	0,9	1,5	2,4	2,4	2,4	0,2	0,4

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STANDARD PACKAGES	2x1,5/1,5	2x2,5/2,5	2x4/4	2x6/6	2x10/10	2x16/16	2x25/16	2x35/16	3x1,5/1,5	3x2,5/2,5
Product code	1146403	1146404	1146405	1146406	1146407	1146408	1146409		1146415	1146416
GTIN code	6438176301005	6438176301036	6438176301043	6438176301067	6438176301081	6438176301111	6438176301135		6438176301142	6438176301166
Package	500 K7	1000 K9	500 K8	500 K9	500 K10	1000 K14	1000 K16		500 K8	500 K8
Product code	1146403	1146404	1146405	1146406	1146407	1146408	1146409		1146415	1146416
GTIN code	6438176301012	6438176301029	6438176301050	6438176301074	6438176301098	6438176301104	6438176301128		6438176301159	6438176301173
Package	1000 K9	500 K8	1000 K10	1000 K10	1000 K12	500 K11	500 K12		1000 K9	1000 K10

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Technical information	3x4/4	3x6/6	3x10/10	3x16/16	3x25/16	3x35/16	3x50/25	3x70/35	3x95/50	3x120/70
Product code	**1146417**	**1146418**	**1146419**	**1146420**	**1146421**	**1146422**	**1146423**	**1146424**	**1146425**	**1146426**
Nominal cable diameter mm	14	15	18	21	25	23	26	30	34	36
Nominal cable weight kg/km	343	442	657	960	1338	1333	1821	2520	3399	4299
Nominal weight of copper kg/km	144	217	352	561	816	1056	1493	2093	2903	3725
Nominal Insulation thicness mm	0,7	0,7	0,7	0,7	0,9	0,9	1,0	1,1	1,1	1,2
Nominal size of metal screen mm²	4	6	10	16	16	16	25	35	50	70
Nominal thickness of oversheath mm	1,8	1,8	1,8	1,8	1,8	1,8	1,8	2,0	2,1	2,2
Fire load										
Fire load MJ/m	2,904	3,290	4,710	6,032	7,726	6,584	8,003	10,550	12,220	14,284
Fire load kWh/m	0,807	0,914	1,308	1,675	2,146	1,829	2,223	2,931	3,394	3,968
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,6	0,9	1,5	2,4	3,8	5,3	7,5	10,5	14,3	18,0
Max. pulling force by pulling-stocking kN	0,2	0,3	0,5	0,7	1,1	1,6	2,3	3,2	4,3	5,4
Minimum bending radii										
Minimum bending radius, handling mm	172	185	221	258	302	277	316	365	402	438
Minimum bending radius, final bending mm	120	130	155	180	212	194	221	255	282	307
Minimum bending radii										
During handling and installation, cable cm	17	19	22	26	30	28	32	36	40	44
In final installation, cable cm	12	13	15	18	21	19	22	26	28	31
Minimum bending radii										
During handling and installation, cable m	0,17	0,18	0,22	0,26	0,30	0,28	0,32	0,36	0,40	0,44
In final installation, cable m	0,12	0,13	0,15	0,18	0,21	0,19	0,22	0,26	0,28	0,31
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	4,61	3,08	1,83	1,15	0,727	0,524	0,387	0,268	0,193	0,153
Maximum DC resistance at 20 °C, metal screen Ω/km	4,61	3,08	1,83	1,15	1,15	1,15	0,727	0,524	0,387	0,268

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Technical information	3x4/4	3x6/6	3x10/10	3x16/16	3x25/16	3x35/16	3x50/25	3x70/35	3x95/50	3x120/70
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	42	53	73	98	124	154	187	241	293	341
three loaded conductor, conductor 70 °C A	35	45	62	83	105	131	159	204	248	287
two loaded conductor, conductor 90 °C A	51	66	89	120	155	192	234	301	366	426
three loaded conductor, conductor 90 °C A	44	56	78	104	132	164	200	256	310	360
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	40	51	70	94	119	148	180	232	282	328
three loaded conductor, conductor 70 °C A	34	43	60	80	101	126	153	196	238	276
two loaded conductor, conductor 90 °C A	49	63	86	115	149	185	225	289	352	410
three loaded conductor, conductor 90 °C A	42	54	75	100	127	158	192	246	298	346
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	46	57	77	100	130	160	190	240	285	325
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	39	49	65	84	107	129	153	188	226	257
Maximum thermal short circuit current during 1 s										
Phase (initial 65 °C, final 250 °C) kA	0,6	0,9	1,6	2,5	3,9	5,5	7,8	10,9	14,9	18,8
Phase (initial 90 °C, final 250 °C) kA	0,5	0,8	1,4	2,3	3,6	5,0	7,2	10,0	13,6	17,2
Metal screen (initial 80 °C, final 250 °C) kA	0,6	0,9	1,5	2,4	2,4	2,4	3,7	5,2	7,4	10,4

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STANDARD PACKAGES	3x4/4	3x6/6	3x10/10	3x16/16	3x25/16	3x35/16	3x50/25	3x70/35	3x95/50	3x120/70
Product code	1146417	1146418	1146419	1146420	1146421	1146422	1146423	1146424	1146425	1146426
GTIN code	6438176301197	6438176301203	6438176301227	6438176301241	6438176301272	6438176301296	6438176301319	6438176301333	6438176301357	6438176301371
Package	1000 K10	500 K10	500 K11	500 K12	1000 K16	1000 K16	1000 K18	1000 K20	1000 K22	1000 K22
Product code	1146417	1146418	1146419	1146420	1146421	1146422	1146423	1146424	1146425	1146426
GTIN code	6438176301180	6438176301210	6438176301234	6438176301258	6438176301265	6438176301289	6438176301302	6438176301326	6438176301340	6438176301364
Package	500 K9	1000 K11	1000 K12	1000 K14	500 K12	500 K12	500 K14	500 K14	500 K16	500 K18

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Technical information	3x150/70	3x185/95	3x240/120	3x300/150	4x1,5/1,5	4x2,5/2,5	4x4/4	4x6/6	4x10/10	4x16/16
Product code	**1146427**	**1146428**	**1146429**	**1146430**	**1146435**	**1146436**	**1146437**	**1146438**	**1146439**	**1146440**
Nominal cable diameter mm	41	45	53	56	13	14	15	17	20	23
Nominal cable weight kg/km	5201	6563	8568	10608	234	296	398	520	801	1142
Nominal weight of copper kg/km	4473	5692	7481	9384	66	108	180	272	438	699
Nominal Insulation thicness mm	1,4	1,6	1,7	1,8	0,7	0,7	0,7	0,7	0,7	0,7
Nominal size of metal screen mm²	70	95	120	150	1,5	2,5	4	6	10	16
Nominal thickness of oversheath mm	2,4	2,5	2,7	2,9	1,8	1,8	1,8	1,8	1,8	1,8
Fire load										
Fire load MJ/m	18,594	22,818	28,190	31,746	2,549	2,873	3,340	3,793	5,766	7,107
Fire load kWh/m	5,165	6,338	7,830	8,818	0,708	0,798	0,928	1,054	1,602	1,974
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	20,0	20,0	20,0	20,0	0,3	0,5	0,8	1,2	2,0	3,2
Max. pulling force by pulling-stocking kN	6,8	8,3	8,5	8,5	0,1	0,2	0,2	0,4	0,6	1,0
Minimum bending radii										
Minimum bending radius, handling mm	492	544	635	666	155	166	183	198	244	278
Minimum bending radius, final bending mm	344	381	444	466	109	116	128	139	171	194
Minimum bending radii										
During handling and installation, cable cm	49	54	63	67	16	17	18	20	24	28
In final installation, cable cm	34	38	44	47	11	12	13	14	17	19
Minimum bending radii										
During handling and installation, cable m	0,49	0,54	0,64	0,67	0,15	0,17	0,18	0,20	0,24	0,28
In final installation, cable m	0,34	0,38	0,44	0,47	0,11	0,12	0,13	0,14	0,17	0,19
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	0,124	0,0991	0,0754	0,0601	12,1	7,41	4,61	3,08	1,83	1,15
Maximum DC resistance at 20 °C, metal screen Ω/km	0,268	0,193	0,153	0,124	12,1	7,41	4,61	3,08	1,83	1,15

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Technical information	3x150/70	3x185/95	3x240/120	3x300/150	4x1,5/1,5	4x2,5/2,5	4x4/4	4x6/6	4x10/10	4x16/16
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	394	451	535	617	23	31	42	53	73	98
three loaded conductor, conductor 70 °C A	332	379	447	517	19	26	35	45	62	83
two loaded conductor, conductor 90 °C A	492	564	667	771	27	37	51	66	89	120
three loaded conductor, conductor 90 °C A	415	474	560	646	24	33	44	56	78	104
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	379	434	514	593	22	30	40	51	70	94
three loaded conductor, conductor 70 °C A	319	364	430	497	18,5	25	34	43	60	80
two loaded conductor, conductor 90 °C A	473	542	641	741	26	36	49	63	86	115
three loaded conductor, conductor 90 °C A	399	456	538	621	23	32	42	54	75	100
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	370	420	480	550	26	35	46	57	77	100
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	287	324	375	419	23	30	39	49	65	84
Maximum thermal short circuit current during 1 s										
Phase (initial 65 °C, final 250 °C) kA	23,5	28,9	37,5	46,9	0,2	0,3	0,6	0,9	1,6	2,5
Phase (initial 90 °C, final 250 °C) kA	21,5	26,5	34,3	43,1	0,2	0,3	0,5	0,8	1,4	2,3
Metal screen (initial 80 °C, final 250 °C) kA	10,4	14,1	17,8	22,2	0,2	0,4	0,6	0,9	1,5	2,4

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STANDARD PACKAGES	3x150/70	3x185/95	3x240/120	3x300/150	4x1,5/1,5	4x2,5/2,5	4x4/4	4x6/6	4x10/10	4x16/16
Product code	1146427	1146428	1146429	1146430	1146435	1146436	1146437	1146438	1146439	1146440
GTIN code	6438176301388	6438176301395	6438176301401	6438176301418	6438176301432	6438176301456	6438176301470	6438176301494	6438176301500	6438176301524
Package	500 K20	500 K22	500 K24	400 K22	1000 K9	1000 K10	1000 K11	1000 K12	500 K11	500 K12
Product code					1146435	1146436	1146437	1146438	1146439	1146440
GTIN code					6438176301425	6438176301449	6438176301463	6438176301487	6438176301517	6438176301531
Package					500 K8	500 K8	500 K10	500 K10	1000 K14	1000 K16

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Technical information	4x25/16	4x35/16	4x50/25	4x70/35	4x95/50	4x120/70	4x150/70	4x185/95	4x240/120	4x300/150
Product code	**1146441**	**1146442**	**1146443**	**1146444**	**1146445**	**1146446**	**1146447**	**1146448**	**1146449**	**1146450**
Nominal cable diameter mm	27	26	30	34	38	42	46	51	57	61
Nominal cable weight kg/km	1616	1690	2319	3208	4329	5503	6639	8382	10904	13554
Nominal weight of copper kg/km	1038	1359	1914	2685	3726	4762	5759	7291	9601	12051
Nominal Insulation thicness mm	0,9	0,9	1,0	1,1	1,1	1,2	1,4	1,6	1,7	1,8
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	1,9	2,1	2,2	2,4	2,5	2,7	2,9	3,1
Fire load										
Fire load MJ/m	9,096	8,223	10,212	13,231	15,235	18,912	23,138	29,148	34,819	40,088
Fire load kWh/m	2,527	2,284	2,837	3,675	4,232	5,253	6,427	8,097	9,672	11,136
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	7,2	8,5	8,5	8,5	8,5
Minimum bending radii										
Minimum bending radius, handling mm	328	312	355	409	450	501	546	612	679	734
Minimum bending radius, final bending mm	230	219	248	287	315	351	382	429	476	514
Minimum bending radii										
During handling and installation, cable cm	33	31	35	41	45	50	55	61	68	73
In final installation, cable cm	23	22	25	29	32	35	38	43	48	51
Minimum bending radii										
During handling and installation, cable m	0,33	0,31	0,35	0,41	0,45	0,50	0,55	0,61	0,68	0,73
In final installation, cable m	0,23	0,22	0,25	0,29	0,32	0,35	0,38	0,43	0,48	0,51
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	0,727	0,524	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	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	4x120/70	4x150/70	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	341	394	451	535	617
three loaded conductor, conductor 70 °C A	105	131	159	204	248	287	332	379	447	517
two loaded conductor, conductor 90 °C A	155	192	234	301	366		492	564	667	771
three loaded conductor, conductor 90 °C A	132	164	200	256	310	360	415	474	560	646
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	119	148	180	232	282	328	379	434	514	593
three loaded conductor, conductor 70 °C A	101	126	153	196	238	276	319	364	430	497
two loaded conductor, conductor 90 °C A	149	185	225	289	352	410	473	542	641	741
three loaded conductor, conductor 90 °C A	127	158	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	130	160	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	107	129	153	188	226	257	287	324	375	419
Maximum thermal short circuit current during 1 s										
Phase (initial 65 °C, final 250 °C) kA	3,9	5,5	7,8	10,9	14,9	18,8	23,5	28,9	37,5	46,9
Phase (initial 90 °C, final 250 °C) kA	3,6	5,0	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	2,4	2,4	3,7	5,2	7,4	10,4	10,4	14,1	17,8	22,2

STANDARD PACKAGES	4x25/16	4x35/16	4x50/25	4x70/35	4x95/50	4x120/70	4x150/70	4x185/95	4x240/120	4x300/150
Product code	1146441	1146442	1146443	1146444	1146445	1146446	1146447	1146448	1146449	1146450
GTIN code	6438176301548	6438176301562	6438176301593	6438176301616	6438176301623	6438176301630	6438176301647	6438176301654	6438176301661	6438176301678
Package	500 K14	500 K14	1000 K18	1000 K22	500 K18	500 K20	500 K22	500 K22	400 K26	400 K26
Product code	1146441	1146442	1146443	1146444						
GTIN code	6438176301555	6438176301579	6438176301586	6438176301609						
Package	1000 K18	1000 K18	500 K14	500 K16						

MADE IN FINLAND