MKEM-HF C / H07Z1-K

Installation wire-HF

450/750 V



Application

Installation wire for fixed installations indoors and outdoors. Not to be laid in soil nor directly in cast concrete. Can also be used in medical facilities where higher fire class is required. 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	EN 50525-3-31
Reaction to fire	Cca-s1,d1,a1; EN 13501-6, EN 50575:2014+A1:2016
Conductor	Circular flexible copper, EN/IEC 60228 class 5
Insulation	UV-protected polyolefin compound
Core Identification	GNYE Yellow-green, BU Blue, BK 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	-40

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Technical information	10 BK H07Z1-K	10 GNYE H07Z1-K	10 BU H07Z1-K	16 BK H07Z1-K	16 BU H07Z1-K	16 GNYE H07Z1-K	25 BK H07Z1-K	25 BU H07Z1-K	25 GNYE H07Z1-K	35 BK H07Z1-K
Product code	**1140113**	**1140118**	**1140117**	**1140123**	**1140127**	**1140128**	**1140133**	**1140137**	**1140138**	**1140143**
Nominal cable diameter mm	6	6	6	7	7	7	9	9	9	10
Nominal cable weight kg/km	115	115	115	170	170	170	259	259	259	355
Nominal weight of copper kg/km	88	88	88	137	137	137	210	210	210	294
Nominal Insulation thicness mm	1,0	1,0	1,0	1,0	1,0	1,0	1,2	1,2	1,2	1,2
Fire load										
Fire load MJ/m	0,414	0,414	0,414	0,495	0,495	0,495	0,733	0,733	0,733	0,915
Fire load kWh/m	0,115	0,115	0,115	0,138	0,138	0,138	0,203	0,203	0,203	0,254
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,5	0,5	0,5	0,8	0,8	0,8	1,2	1,2	1,2	1,7
Max. pulling force by pulling-stocking kN										
Minimum bending radii										
Minimum bending radius, handling mm	50	50	50	57	57	57	70	70	70	82
Minimum bending radius, final bending mm	19	19	19	21	21	21	26	26	26	31
Minimum bending radii										
During handling and installation, cable cm	5	5	5	6	6	6	7	7	7	8
In final installation, cable cm	2	2	2	2	2	2	3	3	3	3
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	1,91	1,91	1,91	1,21	1,21	1,21	0,780	0,780	0,780	0,554

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STANDARD PACKAGES	10 BK H07Z1-K	10 GNYE H07Z1-K	10 BU H07Z1-K	16 BK H07Z1-K	16 BU H07Z1-K	16 GNYE H07Z1-K	25 BK H07Z1-K	25 BU H07Z1-K	25 GNYE H07Z1-K	35 BK H07Z1-K
Product code	1140113	1140118	1140117	1140123	1140127	1140128	1140133	1140137	1140138	1140143
GTIN code	6438176308196	6438176308219	6438176308202	6438176308226	6438176308240	6438176308271	6438176308301	6438176308325	6438176308363	6438176308387
Package	100 nippu	100 nippu	100 nippu	100 nippu	100 nippu	1000 K6	1000 K7	500 K6	1000 K7	500 K6
Product code				1140123	1140127	1140128	1140133	1140137	1140138	1140143
GTIN code				6438176308233	6438176308257	6438176308264	6438176308295	6438176308318	6438176308356	6438176308370
Package				1000 K6	1000 K6	100 nippu	500 K6	100 nippu	500 K6	50 nippu
Product code							1140133	1140137	1140138	
GTIN code							6438176308288	6438176308332	6438176308349	
Package							100 nippu	1000 K7	100 nippu	

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Technical information	35 GNYE H07Z1-K	35 BU H07Z1-K	50 BK H07Z1-K	50 GNYE H07Z1-K	50 BU H07Z1-K	70 BK H07Z1-K	70 BU H07Z1-K	70 GNYE H07Z1-K	95 BK H07Z1-K	95 BU H07Z1-K
Product code	**1140148**	**1140147**	**1140153**	**1140158**	**1140157**	**1140163**	**1140167**	**1140168**	**1140173**	**1140177**
Nominal cable diameter mm	10	10	12	12	12	14	14	14	16	16
Nominal cable weight kg/km	355	355	498	498	498	674	674	674	952	952
Nominal weight of copper kg/km	294	294	420	420	420	583	583	583	825	825
Nominal Insulation thicness mm	1,2	1,2	1,4	1,4	1,4	1,4	1,4	1,4	1,6	1,6
Fire load										
Fire load MJ/m	0,915	0,915	1,175	1,175	1,175	1,370	1,370	1,370	1,901	1,901
Fire load kWh/m	0,254	0,254	0,326	0,326	0,326	0,381	0,381	0,381	0,528	0,528
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	1,7	1,7	2,5	2,5	2,5	3,5	3,5	3,5	4,7	4,7
Max. pulling force by pulling-stocking kN										
Minimum bending radii										
Minimum bending radius, handling mm	82	82	92	92	92	108	108	108	130	130
Minimum bending radius, final bending mm	31	31	35	35	35	41	41	41	49	49
Minimum bending radii										
During handling and installation, cable cm	8	8	9	9	9	11	11	11	13	13
In final installation, cable cm	3	3	3	3	3	4	4	4	5	5
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	0,554	0,554	0,386	0,386	0,386	0,272	0,272	0,272	0,206	0,206

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STANDARD PACKAGES	35 GNYE H07Z1-K	35 BU H07Z1-K	50 BK H07Z1-K	50 GNYE H07Z1-K	50 BU H07Z1-K	70 BK H07Z1-K	70 BU H07Z1-K	70 GNYE H07Z1-K	95 BK H07Z1-K	95 BU H07Z1-K
Product code	1140148	1140147	1140153	1140158	1140157	1140163	1140167	1140168	1140173	1140177
GTIN code	6438176308424	6438176308400	6438176308431	6438176308486	6438176308462	6438176308493	6438176308509	6438176308516	6438176308523	6438176308530
Package	500 K6	500 K6	50 nippu	250 K6	250 K6	250 K6	250 K6	250 K6	250 K6	250 K6
Product code	1140148	1140147	1140153	1140158	1140157					
GTIN code	6438176308417	6438176308394	6438176308448	6438176308479	6438176308455					
Package	50 nippu	50 nippu	250 K6	50 nippu	50 nippu					

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Technical information	95 GNYE H07Z1-K	120 GNYE H07Z1-K	120 BK H07Z1-K	120 BU H07Z1-K	150 BU H07Z1-K	150 BK H07Z1-K	150 GNYE H07Z1-K
Product code	**1140178**	**1140188**	**1140183**	**1140187**	**1140197**	**1140193**	**1140198**
Nominal cable diameter mm	16	18	18	18	21	21	21
Nominal cable weight kg/km	952	1180	1180	1180	1476	1476	1476
Nominal weight of copper kg/km	825	1032	1032	1032	1288	1288	1288
Nominal Insulation thicness mm	1,6	1,6	1,6	1,6	1,8	1,8	1,8
Fire load							
Fire load MJ/m	1,901	2,227	2,227	2,227	2,818	2,818	2,818
Fire load kWh/m	0,528	0,619	0,619	0,619	0,783	0,783	0,783
Maximum forces during installation when pulling by							
Max. pulling force by pulling-eye kN	4,7	6,0	6,0	6,0	7,5	7,5	7,5
Max. pulling force by pulling-stocking kN							
Minimum bending radii							
Minimum bending radius, handling mm	130	147	147	147	166	166	166
Minimum bending radius, final bending mm	49	55	55	55	62	62	62
Minimum bending radii							
During handling and installation, cable cm	13	15	15	15	17	17	17
In final installation, cable cm	5	6	6	6	6	6	6
DC resistance							
Max. DC resistance of conductor at 20 °C Ω/km	0,206	0,161	0,161	0,161	0,129	0,129	0,129

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STANDARD PACKAGES	95 GNYE H07Z1-K	120 GNYE H07Z1-K	120 BK H07Z1-K	120 BU H07Z1-K	150 BU H07Z1-K	150 BK H07Z1-K	150 GNYE H07Z1-K
Product code	1140178	1140188	1140183	1140187	1140197	1140193	1140198
GTIN code	6438176308547	6438176308578	6438176308554	6438176308561	6438176308592	6438176308585	6438176308608
Package	250 K6	250 K7	250 K7	250 K7	250 K8	250 K8	250 K8

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