MK-HF / H07Z1-R

Installation wire-HF

450/750 V

Application

Installation wirefor fixed installations indoors. For internal wiring of electrical devices. The conductor insulation must be protected against UV-radiation. The cable is halogen-free and flame-retardant according to CPR-class Dca-s2,d2,a2.

Design

Standards	EN 50525-3-31
Reaction to fire	Dca-s2,d2,a2; EN 13501-6, EN 50575:2014+A1:2016
Conductor	Circular stranded copper, EN/IEC 60228 class 2
Insulation	Polyolefine compound
Core Identification	GNYE Yellow-green, BU Blue BN Brown, BK Black GY Grey, OG Orange RD Red, WH White VT Violet, PK Pink

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	1,5 GY H07Z1-R	1,5 BN H07Z1-R	1,5 BK H07Z1-R	1,5 BU H07Z1-R	1,5 GNYE H07Z1-R	2,5 GY H07Z1-R	2,5 BN H07Z1-R	2,5 BK H07Z1-R	2,5 BU H07Z1-R	2,5 GNYE H07Z1-R
Product code	**1145660**	**1145662**	**1145663**	**1145667**	**1145668**	**1145670**	**1145672**	**1145673**	**1145677**	**1145678**
Nominal cable diameter mm	3	3	3	3	3	4	4	4	4	4
Nominal cable weight kg/km	22	22	22	22	22	34	34	34	34	34
Nominal weight of copper kg/km	14	14	14	14	14	22	22	22	22	22
Nominal Insulation thicness mm	0,7	0,7	0,7	0,7	0,7	0,8	0,8	0,8	0,8	0,8
Fire load										
Fire load MJ/m	0,124	0,124	0,124	0,124	0,124	0,176	0,176	0,176	0,176	0,176
Fire load kWh/m	0,035	0,035	0,035	0,035	0,035	0,049	0,049	0,049	0,049	0,049
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,0	0,0	0,0	0,0	0,0	0,1	0,1	0,1	0,1	0,1
Max. pulling force by pulling-stocking kN										
Minimum bending radii										
Minimum bending radius, handling mm	24	24	24	24	24	29	29	29	29	29
Minimum bending radius, final bending mm	9	9	9	9	9	11	11	11	11	11
Minimum bending radii										
During handling and installation, cable cm	2	2	2	2	2	3	3	3	3	3
In final installation, cable cm	1	1	1	1	1	1	1	1	1	1
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	12,1	12,1	12,1	12,1	12,1	7,41	7,41	7,41	7,41	7,41

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STANDARD PACKAGES	1,5 GY H07Z1-R	1,5 BN H07Z1-R	1,5 BK H07Z1-R	1,5 BU H07Z1-R	1,5 GNYE H07Z1-R	2,5 GY H07Z1-R	2,5 BN H07Z1-R	2,5 BK H07Z1-R	2,5 BU H07Z1-R	2,5 GNYE H07Z1-R
Product code	1145660	1145662	1145663	1145667	1145668	1145670	1145672	1145673	1145677	1145678
GTIN code	6438176223666	6438176223635	6438176223642	6438176223628	6438176223611	6410004002100	6410004002124	6438176223710	6438176223697	6438176223680
Package	100 bundle	100 bundle	100 bundle	100 bundle	100 bundle	200 bundle	200 bundle	100 bundle	100 bundle	100 bundle
Product code	1145660	1145662	1145663	1145667	1145668	1145670	1145672	1145673	1145677	1145678
GTIN code	6410004002001	6410004002025	6410004002032	6410004002070	6410004002087	6438176223734	6438176223703	6410004002131	6410004002179	6410004002186
Package	250 bundle	250 bundle	250 bundle	250 bundle	250 bundle	100 bundle	100 bundle	200 bundle	200 bundle	200 bundle

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Technical information	6 BK H07Z1-R	6 BU H07Z1-R	6 GNYE H07Z1-R	10 BU H07Z1-R	10 GNYE H07Z1-R	16 BK H07Z1-R	16 BU H07Z1-R	16 GNYE H07Z1-R	25 BK H07Z1-R	25 BU H07Z1-R
Product code	**1145693**	**1145697**	**1145698**	**1145707**	**1145708**	**1145713**	**1145717**	**1145718**	**1145723**	**1145727**
Nominal cable diameter mm	5	5	5	6	6	7	7	7	9	9
Nominal cable weight kg/km	71	71	71	115	115	181	181	181	277	277
Nominal weight of copper kg/km	53	53	53	86	86	147	147	147	227	227
Nominal Insulation thicness mm	0,8	0,8	0,8	1,0	1,0	1,0	1,0	1,0	1,2	1,2
Fire load										
Fire load MJ/m	0,268	0,268	0,268	0,437	0,437	0,517	0,517	0,517	0,755	0,755
Fire load kWh/m	0,074	0,074	0,074	0,121	0,121	0,143	0,143	0,143	0,210	0,210
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,3	0,3	0,3	0,5	0,5	0,8	0,8	0,8	1,2	1,2
Max. pulling force by pulling-stocking kN										
Minimum bending radii										
Minimum bending radius, handling mm	38	38	38	48	48	58	58	58	70	70
Minimum bending radius, final bending mm	14	14	14	18	18	22	22	22	26	26
Minimum bending radii										
During handling and installation, cable cm	4	4	4	5	5	6	6	6	7	7
In final installation, cable cm	1	1	1	2	2	2	2	2	3	3
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	3,08	3,08	3,08	1,83	1,83	1,15	1,15	1,15	0,727	0,727

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STANDARD PACKAGES	6 BK H07Z1-R	6 BU H07Z1-R	6 GNYE H07Z1-R	10 BU H07Z1-R	10 GNYE H07Z1-R	16 BK H07Z1-R	16 BU H07Z1-R	16 GNYE H07Z1-R	25 BK H07Z1-R	25 BU H07Z1-R
Product code	1145693		1145698		1145708	1145713	1145717	1145718	1145723	1145727
GTIN code	6410004002537		6410004002582		6410004002780	6438176006528	6438176006542	6410004540084	6438176006597	6410004003077
Package	100 bundle		100 bundle		100 bundle	100 bundle	100 bundle	500 K6	1000 K7	500 K6
Product code	1145693		1145698			1145713	1145717	1145718	1145723	1145727
GTIN code	6410004540138		6410004540282			6410004002834	6410004540275	6410004002889	6410004003039	6438176006610
Package	500 K6		500 K6			1000 K6	500 K6	1000 K6	500 K6	1000 K7
Product code						1145713	1145717	1145718	1145723	1145727
GTIN code						6410004540237	6410004002872	6410004540381	6438176006580	6438176006603
Package						500 K6	1000 K6	100 bundle	100 bundle	100 bundle

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Technical information	25 GNYE H07Z1-R	35 BK H07Z1-R	35 BU H07Z1-R	35 GNYE H07Z1-R	50 BK H07Z1-R	50 BU H07Z1-R	50 GNYE H07Z1-R	70 BK H07Z1-R	70 BU H07Z1-R	70 GNYE H07Z1-R
Product code	**1145728**	**1145733**	**1145737**	**1145738**	**1145743**	**1145747**	**1145748**	**1145753**	**1145757**	**1145758**
Nominal cable diameter mm	9	10	10	10	12	12	12	14	14	14
Nominal cable weight kg/km	277	372	372	372	504	504	504	708	708	708
Nominal weight of copper kg/km	227	311	311	311	422	422	422	607	607	607
Nominal Insulation thicness mm	1,2	1,2	1,2	1,2	1,4	1,4	1,4	1,4	1,4	1,4
Fire load										
Fire load MJ/m	0,755	0,910	0,910	0,910	1,234	1,234	1,234	1,508	1,508	1,508
Fire load kWh/m	0,210	0,253	0,253	0,253	0,343	0,343	0,343	0,419	0,419	0,419
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	1,2	1,7	1,7	1,7	2,5	2,5	2,5	3,5	3,5	3,5
Max. pulling force by pulling-stocking kN										
Minimum bending radii										
Minimum bending radius, handling mm	70	80	80	80	94	94	94	108	108	108
Minimum bending radius, final bending mm	26	30	30	30	35	35	35	41	41	41
Minimum bending radii										
During handling and installation, cable cm	7	8	8	8	9	9	9	11	11	11
In final installation, cable cm	3	3	3	3	4	4	4	4	4	4
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	0,727	0,524	0,524	0,524	0,387	0,387	0,387	0,268	0,268	0,268

STANDARD PACKAGES	25 GNYE H07Z1-R	35 BK H07Z1-R	35 BU H07Z1-R	35 GNYE H07Z1-R	50 BK H07Z1-R	50 BU H07Z1-R	50 GNYE H07Z1-R	70 BK H07Z1-R	70 BU H07Z1-R	70 GNYE H07Z1-R
Product code	1145728	1145733	1145737	1145738	1145743	1145747	1145748	1145753	1145757	1145758
GTIN code	6410004540480	6410004003138	6438176006665	6410004003183	6410004003336	6410004003374	6410004003381	6438176006764	6410004003473	6410004003480
Package	100 bundle	500 K6	50 bundle	500 K6	500 K7	500 K7	500 K7	50 bundle	400 K7	400 K7
Product code	1145728	1145733	1145737	1145738	1145743	1145747	1145748	1145753		1145758
GTIN code	6410004003084	6438176006641	6410004003176	6438176006689	6438176006702	6438176006733	6438176006740	6438176006771		6438176006788
Package	500 K6	50 bundle	500 K6	50 bundle	50 bundle	500 K7	50 bundle	400 K7		50 bundle
Product code	1145728					1145747		1145753		
GTIN code	6438176006634					6438176006726		6410004003435		
Package	1000 K7					50 bundle		400 K7		

Technical information	95 BK H07Z1-R	95 BU H07Z1-R	95 GNYE H07Z1-R	120 BK H07Z1-R	120 BU H07Z1-R	120 GNYE H07Z1-R
Product code	**1145763**	**1145767**	**1145768**	**1145773**	**1145777**	**1145778**
Nominal cable diameter mm	16	16	16	17	17	17
Nominal cable weight kg/km	987	987	987	1223	1223	1223
Nominal weight of copper kg/km	851	851	851	1076	1076	1076
Nominal Insulation thicness mm	1,6	1,6	1,6	1,6	1,6	1,6
Fire load						
Fire load MJ/m	2,037	2,037	2,037	2,202	2,202	2,202
Fire load kWh/m	0,566	0,566	0,566	0,612	0,612	0,612
Maximum forces during installation when pulling by						
Max. pulling force by pulling-eye kN	4,7	4,7	4,7	6,0	6,0	6,0
Max. pulling force by pulling-stocking kN						
Minimum bending radii						
Minimum bending radius, handling mm	126	126	126	139	139	139
Minimum bending radius, final bending mm	47	47	47	52	52	52
Minimum bending radii						
During handling and installation, cable cm	13	13	13	14	14	14
In final installation, cable cm	5	5	5	5	5	5
DC resistance						
Max. DC resistance of conductor at 20 °C Ω/km	0,193	0,193	0,193	0,153	0,153	0,153

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STANDARD PACKAGES	95 BK H07Z1-R	95 BU H07Z1-R	95 GNYE H07Z1-R	120 BK H07Z1-R	120 BU H07Z1-R	120 GNYE H07Z1-R
Product code	1145763	1145767	1145768	1145773	1145777	1145778
GTIN code	6410004003534	6410004003572	6410004003589	6410004003633	6410004003671	6410004003688
Package	400 K7	400 K7	400 K7	250 K7	250 K7	250 K7
Product code	1145763		1145768			
GTIN code	6438176006801		6438176006818			
Package	300 K7		300 K7			

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