MMJ-HF

Installation cable HF

450/750 V

Application

Installation cable for fixed installations indoors and outdoors. Not to be laid in soil nor directly in cast concrete. Can be embedded to the groove filled with plaster. UV-protected oversheath and core insulation. 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 5544, NEK 591
Reaction to fire	Dca-s2,d2,a2; EN 13501-6, EN 50575:2014+A1:2016
Conductor	Circular solid copper, EN/IEC 60228 class 1
Insulation	Polyethylene compound
Core Identification	2N: Blue, brown 3x: Brown, black, grey 3S: Yellow-green, blue, brown 4N: Blue, brown, black, grey 4S: Yellow-green, brown, black, grey 5N: Blue, brown, black, grey, black 5S: Yellow-green, blue, brown, black, grey
Inner covering	Extruded filling compound
Oversheath	UV-protected polyolefin compound , White

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	3x1,5 S	5x1,5 S	3x2,5 S	5x2,5 S	3x6 S	5x6 S	3x10 S	5x10 S	5x16 S
Product code	**1145056**	**1145058**	**1145061**	**1145063**	**1145071**	**1145073**	**1145076**	**1145078**	**1145083**
Nominal cable diameter mm	10	12	11	14	15	18	18	22	24
Nominal cable weight kg/km	154	218	204	293	391	574	582	865	1206
Nominal weight of copper kg/km	39	65	64	106	160	267	260	433	689
Nominal diameter of conductor mm	1,4	1,4	1,7	1,7	3,2	3,2	4,1	4,1	5,0
Nominal Insulation thicness mm	0,7	0,7	0,8	0,8	0,8	0,8	1,0	1,0	1,0
Nominal thickness of oversheath mm	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,7	1,7
Fire load									
Fire load MJ/m	1,837	2,544	2,299	3,211	3,675	5,258	5,223	7,643	9,180
Fire load kWh/m	0,510	0,707	0,638	0,892	1,021	1,460	1,451	2,123	2,550
Maximum forces during installation when pulling by									
Max. pulling force by pulling-eye kN	0,2	0,3	0,3	0,6	0,9	1,5	1,5	2,5	4,0
Minimum bending radii									
Minimum bending radius, handling mm	101	121	114	136	149	177	179	216	244
Minimum bending radius, final bending mm	30	36	34	41	45	53	54	65	73
Minimum bending radii									
During handling and installation, cable cm	10	12	11	14	15	18	18	22	24
In final installation, cable cm	3	4	3	4	4	5	5	6	7
DC resistance									
Max. DC resistance of conductor at 20 °C Ω/km	12,1	12,1	7,41	7,41	3,08	3,08	1,83	1,83	1,15
Electrical values									
Minimum insulation resistance MΩ × km	0,011	0,011	0,01	0,01	0,0065	0,0065	0,0065	0,0065	0,005
Current ratings									
Cables in air (25 °C)									
two loaded conductor, conductor 70 °C A	23	23	31	31	53	53	73	73	98
three loaded conductor, conductor 70 °C A		19		26	45	45		62	83
Cables in air (30 °C)									
two loaded conductor, conductor 70 °C A	22	22	30	30	51	51	70	70	94
three loaded conductor, conductor 70 °C A		18,5		25	43	43		60	80

MADE IN FINLAND

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STANDARD PACKAGES	3x1,5 S	5x1,5 S	3x2,5 S	5x2,5 S	3x6 S	5x6 S	3x10 S	5x10 S	5x16 S
Product code	1145056	1145058	1145061	1145063	1145071	1145073	1145076	1145078	1145083
GTIN code	6410004164013	6410004164426	6410004164853	6410004164303	6410004164273	6410004164457	6438176008386	6410004164341	6438176300060
Package	500 K6	1000 K9	150 spool	1000 K10	1000 K11	400 K9	500 K9	1000 K14	250 K11
Product code	1145056	1145058	1145061	1145063	1145071	1145073	1145076	1145078	1145083
GTIN code	6410004164006	6410004164280	6410004164235	6410004164877	6410004164259	6410004164310	6410004164266	6410004164464	6438176008492
Package	100 bundle	500 K7	1000 K8	150 spool	500 K9	500 K9	400 K9	250 K10	500 K12
Product code	1145056	1145058	1145061	1145063		1145073		1145078	
GTIN code	6410004164228	6410004164860	6410004164044	6410004164433		6410004164327		6410004164334	
Package	1000 K7	150 spool	500 K7	500 K7		1000 K12		500 K10	
Product code	1145056								
GTIN code	6410004164846								
Package	200 spool								

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