

## MMO-HF C

### Control cable HF

### 450/750 V

#### Application

Control cable 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. 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

<b>Standards</b>	HD 627 7 D-1
<b>Reaction to fire</b>	Cca-s1,d1,a1; EN 13501-6, EN 50575:2014+A1:2016
<b>Conductor</b>	Circular solid copper, EN/IEC 60228 class 1
<b>Insulation</b>	Polyolefine compound
<b>Core Identification</b>	Black, with white numbers
<b>Inner covering</b>	Plastic tape
<b>Oversheath</b>	UV-protected polyolefin compound, White

#### Temperature limits

<b>Max. conductor temperature °C</b>	70
<b>Max. cond. temp. short circuit max. 5 s °C</b>	160
<b>Min. cable temperature during operation °C</b>	-40
<b>Min. cable temperature during handling °C</b>	-15
<b>Min. cable temperature during transport °C</b>	-40

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Technical information	7x1,5	12x1,5	19x1,5	27x1,5	7x2,5	12x2,5	19x2,5	27x2,5
<b>Product code</b>	<b>1145527</b>	<b>1145528</b>	<b>1145529</b>	<b>1145530</b>	<b>1145533</b>	<b>1145534</b>	<b>1145535</b>	<b>1145536</b>
Nominal cross-sectional area of conductor mm <sup>2</sup>	1,5	1,5	1,5	1,5	2,5	2,5	2,5	2,5
Nominal diameter of conductor mm	1,3	1,3	1,3	1,3	1,7	1,7	1,7	1,7
Nominal thickness of insulation mm	0,7	0,7	0,7	0,7	0,8	0,8	0,8	0,8
Nominal thickness of oversheath mm	1,5	1,5	1,5	1,6	1,5	1,5	1,6	1,7
Fire load MJ/m	1,788	2,648	3,715	4,996	2,266	3,416	4,962	6,719
Fire load kWh/m	0,497	0,735	1,032	1,388	0,630	0,949	1,378	1,866
Nominal cable diameter mm	11,350	14,540	17,610	20,600	13,090	16,950	20,740	24,360
Nominal cable weight kg/km	213,806	337,463	507,670	702,895	304,008	489,445	744,006	1043,814
Nominal weight of copper kg/m	0,092	0,157	0,256	0,364	0,150	0,257	0,407	0,588
<b>Maximum forces during installation when pulling by</b>								
Max. pulling force by pulling-eye kN	0,5	0,9	1,4	2,0	0,8	1,5	2,3	3,3
<b>Minimum bending radii</b>								
Minimum bending radius, handling mm	114	145	176	206	131	170	207	244
Minimum bending radius, final bending mm	91	116	141	165	105	136	166	195
<b>Minimum bending radii</b>								
During handling and installation, cable cm	11	15	18	21	13	17	21	24
In final installation, cable cm	9	12	14	16	10	14	17	19
<b>DC resistance</b>								
Max. DC resistance of conductor at 20 °C Ω/km	12,1	12,1	12,1	12,1	7,41	7,41	7,41	7,41
<b>Electrical values</b>								
Minimum insulation resistance MΩ × km	0,011	0,011	0,011	0,011	0,01	0,01	0,01	0,01