

## MMO-HF

### 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. 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 Dca-s2,d2,a2.



### Design

<b>Standards</b>	HD 627 7 D 1
<b>Reaction to fire</b>	Dca-s2,d2,a2; EN 13501-6, EN 50575:2014+A1:2016
<b>Conductor</b>	Circular solid copper, EN/IEC 60228 class 1
<b>Insulation</b>	Polyethylene compound
<b>Core Identification</b>	Black, with white numbers
<b>Inner covering</b>	Extruded filling compound
<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>1145480</b>	<b>1145483</b>	<b>1145487</b>	<b>1145491</b>	<b>1145505</b>	<b>1145508</b>	<b>1145512</b>	<b>1145516</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	1,9
Fire load MJ/m	2,681	4,228	6,003	8,355	3,652	5,499	8,123	11,522
Fire load kWh/m	0,745	1,174	1,668	2,321	1,015	1,528	2,256	3,201
Nominal cable diameter mm	12,280	16,070	18,900	22,930	14,620	18,480	22,670	26,820
Nominal cable weight kg/km	240,193	391,765	570,172	801,001	358,373	550,198	823,442	1174,491
Nominal weight of copper kg/m	0,092	0,156	0,256	0,364	0,150	0,257	0,407	0,583
<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	123	161	189	229	146	185	227	268
Minimum bending radius, final bending mm	98	129	151	183	117	148	181	215
<b>Minimum bending radii</b>								
During handling and installation, cable cm	12	16	19	23	15	18	23	27
In final installation, cable cm	10	13	15	18	12	15	18	21
<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