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

Standards	HD 627 7 D-1
Reaction to fire	Cca-s1,d1,a1; EN 13501-6, EN 50575:2014+A1:2016
Conductor	Circular solid copper, EN/IEC 60228 class 1
Insulation	Polyolefine compound
Core Identification	Black, with white numbers
Inner covering	Plastic tape
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	7x1,5	12x1,5	19x1,5	27x1,5	7x2,5	12x2,5	19x2,5	27x2,5
Product code	**1145527**	**1145528**	**1145529**	**1145530**	**1145533**	**1145534**	**1145535**	**1145536**
Nominal cable diameter mm	11	15	18	21	13	17	21	24
Nominal cable weight kg/km	214	337	508	703	304	489	744	1044
Nominal weight of copper kg/km	92	157	256	364	150	257	407	588
Nominal diameter of conductor mm	1,3	1,3	1,3	1,3	1,7	1,7	1,7	1,7
Nominal Insulation thicness 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								
Fire load MJ/m	1,788	2,647	3,715	4,996	2,266	3,416	4,962	6,719
Fire load kWh/m	0,496	0,735	1,032	1,388	0,630	0,949	1,378	1,866
Maximum forces during installation when pulling by								
Max. pulling force by pulling-eye kN	0,5	0,9	1,4	2,0	0,8	1,5	2,3	3,3
Minimum bending radii								
Minimum bending radius, handling mm	136	174	211	247	157	203	249	292
Minimum bending radius, final bending mm	95	122	148	173	110	142	174	205
Minimum bending radii								
During handling and installation, cable cm	14	17	21	25	16	20	25	29
In final installation, cable cm	10	12	15	17	11	14	17	20
DC resistance								
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
Electrical values								
Minimum insulation resistance MΩ × km	0,011	0,011	0,011	0,011	0,01	0,01	0,01	0,01

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STANDARD PACKAGES	7x1,5	12x1,5	19x1,5	27x1,5	7x2,5	12x2,5	19x2,5	27x2,5
Product code	1145527	1145528	1145529	1145530	1145533	1145534	1145535	1145536
GTIN code	6438176305515	6438176305553	6438176305584	6438176305607	6438176305638	6438176305669	6438176305690	6438176305713
Package	500 K7	1000 K10	1000 K12	500 K10	1000 K10	1000 K11	1000 K14	500 K12
Product code	1145527	1145528	1145529		1145533	1145534	1145535	
GTIN code	6438176305522	6438176305546	6438176305577		6438176305621	6438176305652	6438176305683	
Package	1000 K9	500 K8	500 K9		500 K7	500 K9	500 K10	

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