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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

Standards	HD 627 7 D 1
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	Black, with white numbers
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	7x1,5	12x1,5	19x1,5	27x1,5	7x2,5	12x2,5	19x2,5	27x2,5
Product code	**1145480**	**1145483**	**1145487**	**1145491**	**1145505**	**1145508**	**1145512**	**1145516**
Nominal cable diameter mm	12	16	19	23	15	18	23	27
Nominal cable weight kg/km	242	394	573	804	360	553	827	1179
Nominal weight of copper kg/km	92	156	256	364	150	257	407	583
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	1,9
Fire load								
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	1,667	2,321	1,014	1,528	2,256	3,200
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	147	193	227	275	175	222	272	322
Minimum bending radius, final bending mm	103	135	159	193	123	155	190	225
Minimum bending radii								
During handling and installation, cable cm	15	19	23	28	18	22	27	32
In final installation, cable cm	10	13	16	19	12	16	19	23
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	1145480	1145483	1145487	1145491	1145505	1145508	1145512	1145516
GTIN code	6410004128411	6410004128435	6410004128442	6410004128459	6410004128527	6410004128534	6410004128541	6410004128558
Package	500 K7	1000 K11	1000 K12	1000 K16	1000 K10	1000 K12	1000 K16	1000 K18
Product code	1145480							
GTIN code	6410004128428							
Package	1000 K9							
Product code	1145480							
GTIN code	6410004128404							
Package	150 spool							

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