

## MMO

## Control cable

## 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 flame-retardant according to CPR-class Eca.



## Design

<b>Standards</b>	SFS 3714, HD 627 4 D 1
<b>Reaction to fire</b>	Eca; EN 13501-6, EN 50575:2014+A1:2016
<b>Conductor</b>	Circular solid copper, EN/IEC 60228 class 1
<b>Insulation</b>	PVC-compound
<b>Core Identification</b>	Black, with white numbers
<b>Inner covering</b>	Plastic tape
<b>Oversheath</b>	UV-protected PVC-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	37x1,5	7x2,5	12x2,5	19x2,5	27x2,5	37x2,5
<b>Product code</b>	<b>1103207</b>	<b>1103212</b>	<b>1103219</b>	<b>1103227</b>	<b>1103237</b>	<b>1103057</b>	<b>1103262</b>	<b>1103269</b>	<b>1103277</b>	<b>1103287</b>
Nominal cross-sectional area of conductor mm <sup>2</sup>	1,5	1,5	1,5	1,5	1,5	2,5	2,5	2,5	2,5	2,5
Nominal diameter of conductor mm	1,3	1,3	1,3	1,3	1,3	1,7	1,7	1,7	1,7	1,7
Nominal thickness of insulation mm	0,7	0,7	0,7	0,7	0,7	0,8	0,8	0,8	0,8	0,8
Nominal thickness of oversheath mm	1,5	1,5	1,5	1,6	1,7	1,5	1,5	1,6	1,7	1,9
Fire load MJ/m	2,263	3,377	4,608	6,280	8,369	2,885	4,357	6,231	8,511	11,294
Fire load kWh/m	0,629	0,938	1,280	1,744	2,325	0,802	1,210	1,731	2,364	3,137
Nominal cable diameter mm	11,350	14,540	16,870	20,260	23,760	13,090	16,950	20,020	24,090	27,320
Nominal cable weight kg/km	203,269	324,862	475,812	663,127	914,236	292,012	473,244	718,931	1005,632	1359,680
Nominal weight of copper kg/m	0,091	0,158	0,247	0,352	0,499	0,149	0,257	0,410	0,583	0,798
<b>Maximum forces during installation when pulling by</b>										
Max. pulling force by pulling-eye kN	0,5	0,9	1,4	2,0	2,7	0,8	1,5	2,3	3,3	4,6
<b>Minimum bending radii</b>										
Minimum bending radius, handling mm	114	145	169	203	238	131	170	200	241	273
Minimum bending radius, final bending mm	91	116	135	162	190	105	136	160	193	219
<b>Minimum bending radii</b>										
During handling and installation, cable cm	11	15	17	20	24	13	17	20	24	27
In final installation, cable cm	9	12	13	16	19	10	14	16	19	22
<b>DC resistance</b>										
Max. DC resistance of conductor at 20 °C Ω/km	12,1	12,1	12,1	12,1	12,1	7,41	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	0,011	0,01	0,01	0,01	0,01	0,01