

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

Standards	SFS 3714, HD 627 4 D 1
Reaction to fire	Eca; EN 13501-6, EN 50575:2014+A1:2016
Conductor	Circular solid copper, EN/IEC 60228 class 1
Insulation	PVC-compound
Core Identification	Black, with white numbers
Inner covering	Plastic tape
Oversheath	UV-protected PVC-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	37x1,5	7x2,5	12x2,5	19x2,5	27x2,5	37x2,5
Product code	1103207	1103212	1103219	1103227	1103237	1103057	1103262	1103269	1103277	1103287
Nominal cable diameter mm	11	15	17	20	24	13	17	20	24	27
Nominal cable weight kg/km	203	325	476	663	914	292	473	719	1006	1360
Nominal weight of copper kg/km	91	158	247	352	499	149	257	410	583	798
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 Insulation thickness 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										
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	0,801	1,210	1,731	2,364	3,137
Maximum forces during installation when pulling by										
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
Minimum bending radii										
Minimum bending radius, handling mm	136	174	202	243	285	157	203	240	289	328
Minimum bending radius, final bending mm	95	122	142	170	200	110	142	168	202	229
Minimum bending radii										
During handling and installation, cable cm	14	17	20	24	29	16	20	24	29	33
In final installation, cable cm	10	12	14	17	20	11	14	17	20	23
DC resistance										
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
Electrical values										
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

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STANDARD PACKAGES	7x1,5	12x1,5	19x1,5	27x1,5	37x1,5	7x2,5	12x2,5	19x2,5	27x2,5	37x2,5
Product code	1103207	1103212	1103219	1103227	1103237	1103057	1103262	1103269	1103277	1103287
GTIN code	6410004128220	6410004128237	6410004128244	6410004128251	6410004128268	6410004128329	6410004128336	6410004128176	6410004128374	6410004128381
Package	1000 K9	1000 K10	1000 K11	1000 K14	500 K12	1000 K10	1000 K11	1000 K14	1000 K16	1000 K18
Product code	1103207	1103212	1103219	1103227	1103237	1103057		1103269	1103277	1103287
GTIN code	6410004128138	6410004128275	6410004128145	6410004128152	6410004128282	6410004128169		6410004128343	6410004128350	6410004128367
Package	500 K7	500 K8	500 K9	500 K10	1000 K16	500 K7		500 K10	500 K12	500 K12
Product code	1103207	1103212								
GTIN code	6410004128091	6410004128114								
Package	100 bundle	100 bundle								
Product code	1103207									
GTIN code	6410004128121									
Package	200 spool									
Product code	1103207									
GTIN code	6438176304105									
Package	150 spool									
Product code	1103207									
GTIN code	6410004128107									
Package	50 bundle									