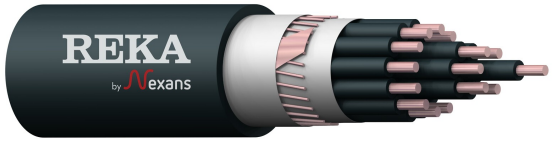
MCMO

Control cable

450/750 V



Application

Control cable for fixed installations indoors and outdoors. May be buried directly in soil. 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	HD 627 4 D 2, SFS 3713
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
Metal screen	Copper wires and copper tape
Oversheath	UV-protected PVC-compound , Black

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	7x1,5/6	12x1,5/6	19x1,5/6	27x1,5/6	37x1,5/10	48x1,5/10	7x2,5/6	12x2,5/6	19x2,5/6	27x2,5/10
Product code	**1108207**	**1108212**	**1108219**	**1108227**	**1108237**	**1108248**	**1108257**	**1108262**	**1108269**	**1108277**
Nominal cable diameter mm	13	16	19	22	26	29	14	19	22	26
Nominal cable weight kg/km	272	400	560	764	1029	1290	364	559	803	1134
Nominal weight of copper kg/km	150	218	312	420	592	743	207	317	465	675
Nominal diameter of conductor mm	1,3	1,3	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	0,7	0,7	0,8	0,8	0,8	0,8
Nominal size of metal screen mm²	6	6	6	6	10	10	6	6	6	10
Nominal thickness of oversheath mm	1,5	1,5	1,6	1,7	1,8	1,9	1,5	1,6	1,7	1,8
Fire load										
Fire load MJ/m	2,573	3,728	5,285	7,002	9,225	11,493	3,202	4,953	6,919	9,336
Fire load kWh/m	0,715	1,036	1,468	1,945	2,562	3,193	0,889	1,376	1,922	2,593
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,5	0,9	1,4	2,0	2,7	3,6	0,8	1,5	2,3	3,3
Minimum bending radii										
Minimum bending radius, handling mm	153	192	230	266	308	344	174	222	259	312
Minimum bending radius, final bending mm	107	134	161	186	215	241	121	156	181	218
Minimum bending radii										
During handling and installation, cable cm	15	19	23	27	31	34	17	22	26	31
In final installation, cable cm	11	13	16	19	22	24	12	16	18	22
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	12,1	12,1	12,1	12,1	12,1	12,1	7,41	7,41	7,41	7,41
Maximum DC resistance at 20 °C, metal screen Ω/km	3,08	3,08	3,08	3,08	1,83	1,83	3,08	3,08	3,08	1,83
Electrical values										
Minimum insulation resistance MΩ × km	0,011	0,011	0,011	0,011	0,011	0,011	0,01	0,01	0,01	0,01

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STANDARD PACKAGES	7x1,5/6	12x1,5/6	19x1,5/6	27x1,5/6	37x1,5/10	48x1,5/10	7x2,5/6	12x2,5/6	19x2,5/6	27x2,5/10
Product code	1108207	1108212	1108219	1108227	1108237		1108257	1108262	1108269	1108277
GTIN code	6410006029273	6410006029280	6410006029297	6410006029259	6410006029266		6410006029327	6410006029334	6410006029341	6410006029358
Package	500 K7	500 K9	500 K9	1000 K16	1000 K16		1000 K10	1000 K12	1000 K14	1000 K16
Product code	1108207	1108212	1108219	1108227	1108237		1108257	1108262	1108269	1108277
GTIN code	6410006029228	6410006029235	6410006029242	6410006029303	6410006029310		6410006029389	6410006029396	6410006029402	6410006029419
Package	1000 K9	1000 K11	1000 K12	500 K11	500 K12		2000 K14	500 K9	500 K11	500 K12
Product code							1108257			
GTIN code							6410006029372			
Package							500 K8			

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Technical information	37x2,5/10	48x2,5/10
Product code	**1108287**	**1108298**
Nominal cable diameter mm	29	34
Nominal cable weight kg/km	1481	1894
Nominal weight of copper kg/km	891	1141
Nominal diameter of conductor mm	1,7	1,7
Nominal Insulation thicness mm	0,8	0,8
Nominal size of metal screen mm²	10	10
Nominal thickness of oversheath mm	1,9	2,0
Fire load		
Fire load MJ/m	12,004	15,289
Fire load kWh/m	3,334	4,247
Maximum forces during installation when pulling by		
Max. pulling force by pulling-eye kN	4,6	6,0
Minimum bending radii		
Minimum bending radius, handling mm	348	403
Minimum bending radius, final bending mm	244	282
Minimum bending radii		
During handling and installation, cable cm	35	40
In final installation, cable cm	24	28
DC resistance		
Max. DC resistance of conductor at 20 °C Ω/km	7,41	7,41
Maximum DC resistance at 20 °C, metal screen Ω/km	1,83	1,83
Electrical values		
Minimum insulation resistance MΩ × km	0,01	0,01

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STANDARD PACKAGES	37x2,5/10	48x2,5/10
Product code	1108287	
GTIN code	6410006029365	
Package	1000 K18	
Product code	1108287	
GTIN code	6410006029426	
Package	500 K14	

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