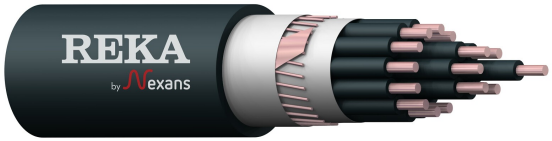
MCMO

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

Technical information	7x1,5	12x1,5	19x1,5	27x1,5	37x1,5	48x1,5	7x2,5	12x2,5	19x2,5	27x2,5
Product code	**1108207**	**1108212**	**1108219**	**1108227**	**1108237**	**1108248**	**1108257**	**1108262**	**1108269**	**1108277**
Nominal cross-sectional area of conductor mm²	1,5	1,5	1,5	1,5	1,5	1,5	2,5	2,5	2,5	2,5
Nominal diameter of conductor mm	1,3	1,3	1,3	1,3	1,3	1,3	1,7	1,7	1,7	1,7
Nominal thickness of insulation 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 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
Nominal cable diameter mm	12,750	15,970	19,150	22,140	25,640	28,660	14,460	18,530	21,560	25,970
Nominal cable weight kg/km	275,520	400,322	571,493	764,246	1043,555	1307,701	363,836	559,007	803,150	1133,906
Nominal weight of copper kg/m	0,150	0,218	0,312	0,420	0,592	0,743	0,207	0,317	0,465	0,675
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	128	160	192	221	256	287	145	185	216	260
Minimum bending radius, final bending mm	102	128	153	177	205	229	116	148	172	208
Minimum bending radii										
During handling and installation, cable cm	13	16	19	22	26	29	14	19	22	26
In final installation, cable cm	10	13	15	18	21	23	12	15	17	21
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

Technical information	37x2,5	48x2,5
Product code	**1108287**	**1108298**
Nominal cross-sectional area of conductor mm²	2,5	2,5
Nominal diameter of conductor mm	1,7	1,7
Nominal thickness of insulation mm	0,8	0,8
Nominal size of metal screen mm²	10	10
Nominal thickness of oversheath mm	1,9	2,0
Fire load MJ/m	12,004	15,289
Fire load kWh/m	3,335	4,247
Nominal cable diameter mm	29,000	33,600
Nominal cable weight kg/km	1480,774	1894,300
Nominal weight of copper kg/m	0,891	1,141
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	290	336
Minimum bending radius, final bending mm	232	269
Minimum bending radii		
During handling and installation, cable cm	29	34
In final installation, cable cm	23	27
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