

MMJ

Installation cable

450/750 V

Application

Installation cable for fixed installations indoors and outdoors. Not to be laid in soil nor directly in cast concrete. Can be embedded to the groove filled with plaster. 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 2091, SS 424 02 19-3, NEK 535
Reaction to fire	Eca; EN 13501-6, EN 50575:2014+A1:2016
Conductor	Circular stranded copper, EN/IEC 60228 class 2
Insulation	PVC-compound
Core Identification	2N: Blue, brown 3x: Brown, black, grey 3S: Yellow-green, blue, brown 4N: Blue, brown, black, grey 4S: Yellow-green, brown, black, grey 5N: Blue, brown, black, grey, black 5S: Yellow-green, blue, brown, black, grey
Inner covering	Extruded filling compound
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	3x4 S	3x6 S	3x10 S	3x16 S	5x4 S	5x6 S	5x10 S	5x16 S	5x25 S
Product code	1102116	1102121	1102126	1102131	1102118	1102123	1102128	1102133	1102138
Nominal cross-sectional area of conductor mm ²	4	6	10	16	4	6	10	16	25
Nominal diameter of conductor mm	2,5	3,1	4,0	5,0	2,5	3,1	4,0	5,0	6,4
Nominal thickness of insulation mm	0,8	0,8	1,0	1,0	0,8	0,8	1,0	1,0	1,2
Nominal thickness of oversheath mm	1,5	1,5	1,5	1,6	1,5	1,5	1,7	1,7	1,8
Fire load MJ/m	3,157	3,708	5,262	6,376	4,262	5,001	7,702	8,683	16,485
Fire load kWh/m	0,877	1,030	1,462	1,771	1,184	1,389	2,139	2,412	4,579
Nominal cable diameter mm	12,600	13,830	16,630	19,040	14,880	16,430	20,440	23,110	29,360
Nominal cable weight kg/km	262,847	339,311	515,107	717,762	392,441	513,905	817,187	1111,184	1913,632
Nominal weight of copper kg/m	0,110	0,161	0,262	0,413	0,183	0,269	0,440	0,689	1,132
Maximum forces during installation when pulling by									
Max. pulling force by pulling-eye kN	0,6	0,9	1,5	2,4	1,0	1,5	2,5	4,0	6,2
Minimum bending radii									
Minimum bending radius, handling mm	126	138	166	190	149	164	204	231	294
Minimum bending radius, final bending mm	38	41	50	57	45	49	61	69	88
Minimum bending radii									
During handling and installation, cable cm	13	14	17	19	15	16	20	23	29
In final installation, cable cm	4	4	5	6	4	5	6	7	9
DC resistance									
Max. DC resistance of conductor at 20 °C Ω/km	4,61	3,08	1,83	1,15	4,61	3,08	1,83	1,15	0,727
Electrical values									
Minimum insulation resistance MΩ × km		0,0065	0,0065	0,005		0,0065	0,0065	0,005	0,005
Current ratings									
Cables in air (25 °C)									
two loaded conductor, conductor 70 °C A	42	53	73	98	42	53	73	98	124
three loaded conductor, conductor 70 °C A					35	45	62	83	105
Cables in air (30 °C)									
two loaded conductor, conductor 70 °C A	40	51	70	94	40	51	70	94	119
three loaded conductor, conductor 70 °C A					34	43	60	80	101