

MMJ

Installation cable

300/500 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 solid copper, EN/IEC 60228 class 1
Insulation	PVC-compound
Core Identification	Blue, brown Blue, brown, black, grey Blue, brown, black, grey, black Brown, black, grey Yellow-green, blue, brown Yellow-green, blue, brown, black 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

2024-12-22 05:40:31

Technical information	2x1,5 N	3x1,5	3x1,5 S	4x1,5 N	4x1,5 S	5x1,5 N	5x1,5 S	3x2,5 S	4x2,5 S	5x2,5 S
Product code	1102005	1102006	1102106	1102007	1102107	1102008	1102108	1102111	1102112	1102113
Nominal cross-sectional area of conductor mm ²	1,5	1,5	1,5	1,5	1,5	1,5	1,5	2,5	2,5	2,5
Nominal diameter of conductor mm	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,7	1,7	1,7
Nominal thickness of insulation mm	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,8	0,8	0,8
Nominal thickness of oversheath mm	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
Fire load MJ/m	1,378	1,442	1,442	1,654	1,654	1,858	1,858	1,944	2,232	2,509
Fire load kWh/m	0,383	0,401	0,401	0,459	0,459	0,516	0,516	0,540	0,620	0,697
Nominal cable diameter mm	8,100	8,540	8,540	9,260	9,260	10,060	10,060	9,980	10,860	11,800
Nominal cable weight kg/km	92,368	109,101	109,101	132,596	132,596	155,795	155,795	158,326	193,230	229,098
Nominal weight of copper kg/m	0,026	0,039	0,039	0,052	0,052	0,065	0,065	0,064	0,085	0,107
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,1	0,2	0,2	0,3	0,3	0,3	0,3	0,3	0,5	0,6
Minimum bending radii										
Minimum bending radius, handling mm	81	85	85	93	93	101	101	100	109	118
Minimum bending radius, final bending mm	24	26	26	28	28	30	30	30	33	35
Minimum bending radii										
During handling and installation, cable cm	8	9	9	9	9	10	10	10	11	12
In final installation, cable cm	2	3	3	3	3	3	3	3	3	4
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	12,1	12,1	12,1	12,1	12,1	12,1	12,1	7,41	7,41	7,41
Electrical values										
Testing voltage, factory			2,5							
Minimum insulation resistance MΩ × km	0,011	0,011	0,011	0,011	0,011	0,011	0,011	0,01	0,01	0,01
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	23	23	23	23	23	23	23	31	31	31
three loaded conductor, conductor 70 °C A		19		19	19	19	19		26	26
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	22	22	22	22	22	22	22	30	30	30
three loaded conductor, conductor 70 °C A		18,5		18,5	18,5	18,5	18,5		25	25