

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	3x6 S	5x6 S	5x16 S	5x25 S
Product code	1102121	1102123	1102133	1102138
Nominal cable diameter mm	14	16	23	29
Nominal cable weight kg/km	339	514	1111	1914
Nominal weight of copper kg/km	161	269	689	1132
Nominal diameter of conductor mm	3,1	3,1	5,0	6,4
Nominal Insulation thickness mm	0,8	0,8	1,0	1,2
Nominal thickness of oversheath mm	1,5	1,5	1,7	1,8
Fire load				
Fire load MJ/m	3,708	5,001	8,683	16,485
Fire load kWh/m	1,030	1,389	2,412	4,579
Maximum forces during installation when pulling by				
Max. pulling force by pulling-eye kN	0,9	1,5	4,0	6,2
Minimum bending radii				
Minimum bending radius, handling mm	138	164	231	294
Minimum bending radius, final bending mm	41	49	69	88
Minimum bending radii				
During handling and installation, cable cm	14	16	23	29
In final installation, cable cm	4	5	7	9
DC resistance				
Max. DC resistance of conductor at 20 °C Ω/km	3,08	3,08	1,15	0,727
Electrical values				
Minimum insulation resistance MΩ × km	0,0065	0,0065	0,005	0,005
Current ratings				
Cables in air (25 °C)				
two loaded conductor, conductor 70 °C A	53	53	98	124
three loaded conductor, conductor 70 °C A		45	83	105
Cables in air (30 °C)				
two loaded conductor, conductor 70 °C A	51	51	94	119
three loaded conductor, conductor 70 °C A		43	80	101

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STANDARD PACKAGES	3x6 S	5x6 S	5x16 S	5x25 S
Product code		1102123		1102138
GTIN code		6410004570104		6438176002315
Package		1000 K11		500 K14
Product code		1102123		
GTIN code		6410004569450		
Package		400 K8		
Product code		1102123		
GTIN code		6410004569474		
Package		500 K9		
Product code		1102123		
GTIN code		6410004569467		
Package		250 MK8		
Product code		1102123		
GTIN code		6410004069455		
Package		50 bundle		