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	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	3x1,5	3x1,5 S	4x1,5 S	5x1,5 N	5x1,5 S	3x2,5 S	5x2,5 S
Product code	**1102006**	**1102106**	**1102107**	**1102008**	**1102108**	**1102111**	**1102113**
Nominal cable diameter mm	9	9	9	10	10	10	12
Nominal cable weight kg/km	109	109	133	156	156	158	229
Nominal weight of copper kg/km	39	39	52	65	65	64	107
Nominal diameter of conductor mm	1,3	1,3	1,3	1,3	1,3	1,7	1,7
Nominal Insulation thicness mm	0,7	0,7	0,7	0,7	0,7	0,8	0,8
Nominal thickness of oversheath mm	1,2	1,2	1,2	1,2	1,2	1,2	1,2
Fire load							
Fire load MJ/m	1,442	1,442	1,654	1,857	1,857	1,944	2,509
Fire load kWh/m	0,401	0,401	0,459	0,516	0,516	0,540	0,697
Maximum forces during installation when pulling by							
Max. pulling force by pulling-eye kN	0,2	0,2	0,3	0,3	0,3	0,3	0,6
Minimum bending radii							
Minimum bending radius, handling mm	85	85	93	101	101	100	118
Minimum bending radius, final bending mm	26	26	28	30	30	30	35
Minimum bending radii							
During handling and installation, cable cm	9	9	9	10	10	10	12
In final installation, cable cm	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	7,41	7,41
Electrical values							
Minimum insulation resistance MΩ × km	0,011	0,011	0,011	0,011	0,011	0,01	0,01
Current ratings							
Cables in air (25 °C)							
two loaded conductor, conductor 70 °C A	23	23	23	23	23	31	31
three loaded conductor, conductor 70 °C A	19		19	19	19		26
Cables in air (30 °C)							
two loaded conductor, conductor 70 °C A	22	22	22	22	22	30	30
three loaded conductor, conductor 70 °C A	18,5		18,5	18,5	18,5		25

MADE IN FINLAND

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STANDARD PACKAGES	3x1,5	3x1,5 S	4x1,5 S	5x1,5 N	5x1,5 S	3x2,5 S	5x2,5 S
Product code	1102006	1102106	1102107	1102008	1102108	1102111	1102113
GTIN code	6410004068229	6410004069707	6410004069349	6410004068427	6410004069905	6410004069714	6410004069431
Package	100 bundle	50 bundle	50 bundle	100 bundle	50 bundle	50 bundle	50 bundle
Product code	1102006	1102106	1102107	1102008	1102108	1102111	1102113
GTIN code	6410004568224	6410004069226	6410004069325	6410004068434	6410004069424	6410004069233	6438176002117
Package	1000 K7	100 bundle	100 bundle	150 spool	100 bundle	100 bundle	100 bundle
Product code		1102106	1102107	1102008	1102108	1102111	1102113
GTIN code		6410004569122	6410004569146	6410004068441	6410004569160	6438176001899	6410004569177
Package		250 spool	200 spool	500 K6	150 spool	200 spool	150 spool
Product code		1102106	1102107	1102008	1102108	1102111	1102113
GTIN code		6438176001837	6410004569795	6410004568422	6410004569948	6410004569788	6410004569955
Package		300 spool	500 K6	1000 K7	500 K6	500 K6	500 K7
Product code		1102106	1102107		1102108	1102111	1102113
GTIN code		6410004569771	6410004569320		6410004569856	6410004569825	6410004569887
Package		500 K6	1000 K7		500 MK6	500 MK6	500 MK7
Product code		1102106			1102108	1102111	1102113
GTIN code		6410004569818			6410004569429	6410004569238	6410004569436
Package		500 MK6			1000 K7	1000 K7	750 K8
Product code		1102106				1102111	1102113
GTIN code		6410004569221				6410004569139	6410004569443
Package		1000 K7				150 spool	1000 K9

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