

MCMK 1 kV

Screen-protected 1 kV power cable with round conductors



GENERAL INFO

APPLICATION	For fixed installation indoors, outdoors and underground; as well as in building structures e.g. directly in concrete (but not in sliding joints).
RATED VOLTAGE	U ₀ /U = 0,6/1 kV, U _m = 1,2 kV
Declaration of Performance (DoP)	Ref. no 1000731 and 1018613

STANDARDS AND CERTIFICATIONS



SFS 4880	
IEC 60502-1	1 kV & 3 kV power cables with extruded insulation.
EN 50575:2014+A1:2016	hEN CPR cables
EN 13501-6, class Eca	CPR fire class, Eca
IEC 60332-1	Flame retardant

Conductor	Copper
Conductor surface	Bare
Insulation	Polyvinyl chloride (PVC)
Core identification (acc. HD 308 S2)	Yes
Concentric conductor	Copper
Filling sheath	Polyvinyl chloride (PVC)
Outer sheath	Polyvinyl chloride (PVC)

APPLICATION PROPERTIES

Max. conductor temperature [°C]	70
Max. conductor temperature at short circuit [°C]	160
Permitted cable outer temperature during assembling/handling (min) [°C]	-15
Minimum permissible bending radius during laying	12x OD

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FIRE PROPERTIES

Reaction-to-fire, CPR classification
Flame retardant

Eca
In accordance with EN 13501-6

DELIVERY INFO

Snro	PRODUCT NAME	EAN-code (GTIN)	Packaging type	Standard delivery length
0602172	MCMK 4x1,5/1,5 K8/1000 Eca	6410006021727	Drum	1,000
0602131	MCMK 4x1,5/1,5 PK150 Eca	6410006021314	Bobbin	150
0602192	MCMK 4x1,5/1,5 R100 Eca	6410006021925	Coil	100
0601957	MCMK 4x1,5/1,5 R50 Eca	6410006019571	Coil	50
0602122	MCMK 2x1,5/1,5 K8/1000 Eca	6410006021222	Drum	1,000
0602111	MCMK 2x1,5/1,5 PK200 Eca	6410006021116	Bobbin	200
0602112	MCMK 2x1,5/1,5 R100 Eca	6410006021123	Coil	100
0601948	MCMK 2x1,5/1,5 R50 Eca	6410006019489	Coil	50
0602123	MCMK 2x2,5/2,5 K8/1000 Eca	6410006021239	Drum	1,000
0602114	MCMK 2x2,5/2,5 PK150 Eca	6410006021147	Bobbin	150
0602113	MCMK 2x2,5/2,5 R100 Eca	6410006021130	Coil	100
0601950	MCMK 2x2,5/2,5 R50 Eca	6410006019502	Coil	50
0602152	MCMK 3x1,5/1,5 K8/1000 Eca	6410006021529	Drum	1,000
0602153	MCMK 3x2,5/2,5 K8/1000 Eca	6410006021536	Drum	1,000
0602143	MCMK 4x2,5/2,5 K9/1000 Eca	6410006021437	Drum	1,000
0602144	MCMK 4x2,5/2,5 PK150 Eca	6410006021444	Bobbin	150
0602193	MCMK 4x2,5/2,5 R100 Eca	6410006021932	Coil	100
0601959	MCMK 4x2,5/2,5 R50 Eca	6410006019595	Coil	50
0602125	MCMK 2x6/6 1kV PEX K8/500 Eca		Drum	500
0602126	MCMK 2x10/10 RM 1kV PEX K9/500 Eca		Drum	500
0601915	MCMK 2x16/16 RM 1kV PEX K14/1000 Eca		Drum	1,000
0602155	MCMK 3x6/6 1kV PEX K8/500 Eca		Drum	500
0602156	MCMK 3x10/10 RM 1kV PEX K9/500 Eca		Drum	500
0602157	MCMK 3x16/16 RM 1kV PEX K11/500 Eca		Drum	500
0602145	MCMK 4x6/6 1kV PEX K8/500 Eca	6430010758570	Drum	500
0602146	MCMK 4x10/10 RM 1kV PEX K11/500 Eca	6430010758587	Drum	500
0602147	MCMK 4x16/16 RM 1kV PEX K11/500 Eca	6430010758594	Drum	500

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MECHANICAL DATA

Product description (short)	Diameter over cable [mm]	Pulling force pulling head [N]	Pulling force with pulling hose [N]	Weight [kg/km]	Min. permissible bending radius during laying [mm]
MCMK 4x1,5/1,5	13	300		240	160
MCMK 2x1,5/1,5	12	150		190	150
MCMK 2x2,5/2,5	13	250		240	160
MCMK 3x1,5/1,5	12	220		220	150
MCMK 3x2,5/2,5	13	370		270	160
MCMK 4x2,5/2,5	14	500		310	170
MCMK 2x6/6	16	600		370	195
MCMK 2x10/10	19	1,000		560	230
MCMK 2x16/16	21	1,600		800	255
MCMK 3x6/6	16	900		420	195
MCMK 3x10/10	20	1,500		670	240
MCMK 3x16/16	22	2,400		970	265
MCMK 4x6/6	17	1,200		500	205
MCMK 4x10/10	21	2,000		800	255
MCMK 4x16/16	24	3,200		1,150	290

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ELECTRICAL DATA

Product description (short)	Nominal operation capacitance [nF/km]	Max. DC resistance, conductor (20°C) [ohm/km]	Operation self inductance [mH/km]	Screen DC resistance [Ohm/km]
MCMK 4x1,5/1,5	0.25	12.1	0.34	12.1
MCMK 2x1,5/1,5	0.25	12.1	0.34	12.1
MCMK 2x2,5/2,5	0.3	7.41	0.32	7.41
MCMK 3x1,5/1,5	0.25	12.1	0.34	12.1
MCMK 3x2,5/2,5	0.3	7.41	0.32	7.41
MCMK 4x2,5/2,5	0.3	7.41	0.32	7.41
MCMK 2x6/6	0.35	3.08	0.3	3.08
MCMK 2x10/10	0.4	1.83	0.28	1.83
MCMK 2x16/16	0.4	1.15	0.26	1.15
MCMK 3x6/6	0.35	3.08	0.3	3.08
MCMK 3x10/10	0.4	1.83	0.28	1.83
MCMK 3x16/16	0.4	1.15	0.26	1.15
MCMK 4x6/6	0.35	3.08	0.3	3.08
MCMK 4x10/10	0.4	1.83	0.28	1.83
MCMK 4x16/16	0.4	1.15	0.26	1.15

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CURRENT DATA

Product description (short)	Short circuit current conductor (1sec) [kA]	Short circuit current screen (1sec) [kA]	Current rating, ref. install. type E [A]	Current rating, ref. install. type D [A]
MCMK 4x1,5/1,5	0.18	0.24	14	26
MCMK 2x1,5/1,5	0.18	0.24	15	26
MCMK 2x2,5/2,5	0.3	0.42	20	35
MCMK 3x1,5/1,5	0.18	0.24	14	26
MCMK 3x2,5/2,5	0.3	0.42	19	35
MCMK 4x2,5/2,5	0.3	0.42	19	35
MCMK 2x6/6	0.7	1		
MCMK 2x10/10	1.1	1.7		
MCMK 2x16/16	1.8	2.6		
MCMK 3x6/6	0.7	1		
MCMK 3x10/10	1.1	1.7		
MCMK 3x16/16	1.8	2.6		
MCMK 4x6/6	0.7	1		
MCMK 4x10/10	1.1	1.7		
MCMK 4x16/16	1.8	2.6		

Current load, installation method E (in free air), conductor max.operation temp. Installation method D2 (in ground), conductor +65 °C

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