MCCMK-HF C-PRO 1KV

Low smoke halogen-free EMC-screen-protected 1 kV power cable



Afumex C-PRo

GENERAL INFO

APPLICATION	EMC-protected cable for fixed installation indoors, outdoors and underground; as well as in building structures e.g. directly in concrete (but not in sliding joints). Also for circumstances where it is required to have installation cables with a low emission of smoke and corrosive gases in case of fire.
RATED VOLTAGE	Uo/U = 0,6/1 kV, Um = 1,2 kV
Declaration of Performance (DoP)	Ref. no 1003352

STANDARDS AND CERTIFICATIONS

CPR Cca | CE | RoHS | REACH | prysmian E Path

SFS 5546	Rakenne, kansallinen
IEC 60502-1	1 kV & 3 kV power cables with extruded insulation.
EN 50575:2014+A1:2016	hEN CPR cables
EN 13501-6, class Cca-s1,d1,a1	CPR fire class, Cca-s1,d1,a1
IEC 60332-1-2	Vertical flame propagation for a single insulated wire or cable
IEC 60332-3	Nippuna itsestään sammuva
IEC 61034	Smoke density
IEC 60754	Corrosive gases

Identification of cores	3-sisäjohdinta: RU, MU, HA 4-sisäjohdinta: SI, RU, MU, HA
Conductor	Copper
Conductor surface	Bare
Insulation	XLPE
Core identification (acc. HD 308 S2)	Yes
Screen construction	Metallised foil
Screen material	Copper, bare
Concentric conductor	Copper
Filling sheath	Halogenfree polymer
Outer sheath	Halogenfree polymer

APPLICATION PROPERTIES

Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
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	Cca-s1,d1,a1
Flame retardant	In accordance with EN 13501-6
Halogen free	Yes
Low smoke	Yes

DELIVERY INFO

Snro	PRODUCT NAME	EAN-code (GTIN)	Packaging type	Standard delivery length
0602090	MCCMK-HF C-PRO 3X1,5/1,5 K8/1000 EMC-LIN	6410006020904	Drum	1,000
0601994	MCCMK-HF C-PRO 3X1,5/1,5 S4/150 EMC-LINE	6410006019946	Bobbin	150
0601997	MCCMK-HF C-PRO 3X2,5/2,5 K9/1000 EMC-LIN	6410006019977	Drum	1,000
0601998	MCCMK-HF C-PRO 3X2,5/2,5 S4/100 EMC-LINE	6410006019984	Bobbin	100
0601999	MCCMK-HF C-PRO 3X6/6 K11/1000 EMC-LINE	6410006019991	Drum	1,000
0601995	MCCMK-HF C-PRO 3X10/10 RM K12/1000 EMC-L	6410006019953	Drum	1,000
0601996	MCCMK-HF C-PRO 3X16/16 RM K14/1000 EMC-L	6410006019960	Drum	1,000
0602004	MCCMK-HF C-PRO 4X1,5/1,5 K8/1000 EMC-LIN	6410006020041	Drum	1,000
0602008	MCCMK-HF C-PRO 4X2,5/2,5 K9/1000 EMC-LIN	6410006020089	Drum	1,000
0602009	MCCMK-HF C-PRO 4X6/6 K9/500 EMC-LINE	6410006020096	Drum	500
0602005	MCCMK-HF C-PRO 4X10/10 RM K11/500 EMC-LI	6410006020058	Drum	500
0602006	MCCMK-HF C-PRO 4X16/16 RM K11/500 EMC-LI	6410006020065	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]
MCCMK-HF C-PRo 3x1,5/1,5	12	200		200	150
MCCMK-HF C-PRo 3x2,5/2,5	13	300		250	160
MCCMK-HF C-PRo 3x6/6	16	900		420	200
MCCMK-HF C-PRo 3x10/10	19	1,500		670	230
MCCMK-HF C-PRo 3x16/16	22	2,400		950	270
MCCMK-HF C-PRo 4x1,5/1,5	13	300		230	160
MCCMK-HF C-PRo 4x2,5/2,5	14	500		290	170
MCCMK-HF C-PRo 4x6/6	17	1,200		500	210
MCCMK-HF C-PRo 4x10/10	21	2,000		800	260
MCCMK-HF C-PRo 4x16/16	23	3,200		1,100	280

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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]
MCCMK-HF C-PRo 3x1,5/1,5	0.25	12.1	0.34	12.1
MCCMK-HF C-PRo 3x2,5/2,5	0.25	7.41	0.32	7.41
MCCMK-HF C-PRo 3x6/6	0.26	3.08	0.3	3.08
MCCMK-HF C-PRo 3x10/10	0.27	1.83	0.29	1.83
MCCMK-HF C-PRo 3x16/16	0.28	1.15	0.28	1.15
MCCMK-HF C-PRo 4x1,5/1,5	0.25	12.1	0.34	12.1
MCCMK-HF C-PRo 4x2,5/2,5	0.25	7.41	0.32	7.41
MCCMK-HF C-PRo 4x6/6	0.26	3.08	0.3	3.08
MCCMK-HF C-PRo 4x10/10	0.27	1.83	0.29	1.83
MCCMK-HF C-PRo 4x16/16	0.28	1.15	0.28	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]
MCCMK-HF C-PRo 3x1,5/1,5	0.2	0.2	24	26
MCCMK-HF C-PRo 3x2,5/2,5	0.4	0.4	33	35
MCCMK-HF C-PRo 3x6/6	0.9	0.9	56	57
MCCMK-HF C-PRo 3x10/10	1.4	1.5	78	77
MCCMK-HF C-PRo 3x16/16	2.2	2.4	104	100
MCCMK-HF C-PRo 4x1,5/1,5	0.2	0.2	24	26
MCCMK-HF C-PRo 4x2,5/2,5	0.4	0.4	33	35
MCCMK-HF C-PRo 4x6/6	0.9	0.9	56	57
MCCMK-HF C-PRo 4x10/10	1.4	1.5	78	77
MCCMK-HF C-PRo 4x16/16	2.2	2.4	104	100

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

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