

MCMK-HF C-PRo 1 kV (xcmk-hf)

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



Afumex C-PRo

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). Especially 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

U₀/U = 0,6/1 kV, U_m = 1,2 kV

Declaration of Performance (DoP)

Ref. no 1001453

STANDARDS AND CERTIFICATIONS



CE RoHS



SFS 5546

IEC 60502-1

EN 50575:2014+A1:2016

EN 13501-6, class Cca-s1,d1,a1

IEC 60332-1-2

IEC 60332-3

IEC 61034

IEC 60754

1 kV & 3 kV power cables with extruded insulation.

hEN CPR cables

CPR fire class, Cca-s1,d1,a1

Vertical flame propagation for a single insulated wire or cable

Smoke density

Corrosive gases

Conductor

Copper

Conductor surface

Bare

Insulation

XLPE

Core identification (acc. HD 308 S2)

Yes

Concentric conductor

Copper

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
 Flame retardant
 Halogen free

Cca-s1,d1,a1
 In accordance with EN 13501-6
 Yes

DELIVERY INFO

Snro	PRODUCT NAME	EAN-code (GTIN)	Packaging type	Standard delivery length
0624003	MCMK-HF C-PRo 3x25/16 1kV - XCMK-HF	6410006240036	Drum	500
0624005	MCMK-HF C-PRo 3x35/16 1kV - XCMK-HF	6410006240050	Drum	500
0624007	MCMK-HF C-PRo 3x50/25 1kV - XCMK-HF	6410006240074	Drum	500
0624008	MCMK-HF C-PRo 3x70/35 1kV - XCMK-HF	6410006240081	Drum	500
0624009	MCMK-HF C-PRo 3x95/50 1kV - XCMK-HF	6410006240098	Drum	500
0624011	MCMK-HF C-PRo 3x120/70 1kV - XCMK-HF	6410006240111	Drum	500
0624013	MCMK-HF C-PRo 3x150/70 1kV - XCMK-HF	6410006240135	Drum	500
0624015	MCMK-HF C-PRo 3x185/95 1kV - XCMK-HF	6410006240159	Drum	500
0624017	MCMK-HF C-PRo 3x240/120 1kV - XCMK-HF	6410006240173	Drum	500
0624069	MCMK-HF C-PRo 3x300/150 1kV - XCMK-HF	6430010758358	Drum	500
0602021	MCMK-HF C-PRo 4x25/16 1kV - XCMK-HF	6410006020218	Drum	500
0602023	MCMK-HF C-PRo 4x35/16 1kV - XCMK-HF	6410006020232	Drum	500
0602024	MCMK-HF C-PRo 4x50/25 1kV - XCMK-HF	6410006020249	Drum	500
0602025	MCMK-HF C-PRo 4x70/35 1kV - XCMK-HF	6410006020256	Drum	500
0602026	MCMK-HF C-PRo 4x95/50 1kV - XCMK-HF	6410006020263	Drum	500
0602016	MCMK-HF C-PRo 4x120/70 1kV - XCMK-HF	6410006020164	Drum	500
0602017	MCMK-HF C-PRo 4x150/70 1kV - XCMK-HF	6410006020171	Drum	500
0602018	MCMK-HF C-PRo 4x185/95 1kV - XCMK-HF	6410006020188	Drum	500
0602020	MCMK-HF C-PRo 4x240/120 1kV - XCMK-HF	6410006020201	Drum	500
0602022	MCMK-HF C-PRo 4x300/150 1kV - XCMK-HF	6410006020225	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-HF C-PRo 3x25/16	21	3,700	1,500	1,100	260
MCMK-HF C-PRo 3x35/16	23	5,200	2,100	1,450	280
MCMK-HF C-PRo 3x50/25	26	7,500	3,000	1,900	320
MCMK-HF C-PRo 3x70/35	31	10,000	4,200	2,700	380
MCMK-HF C-PRo 3x95/50	34	14,000	5,700	3,600	410
MCMK-HF C-PRo 3x120/70	38	18,000	7,200	4,600	460
MCMK-HF C-PRo 3x150/70	42	20,000	8,500	5,500	510
MCMK-HF C-PRo 3x185/95	46	20,000	8,500	6,900	560
MCMK-HF C-PRo 3x240/120	52	20,000	8,500	9,000	630
MCMK-HF C-PRo 3x300/150	57	20,000	8,500	11,000	690
MCMK-HF C-PRo 4x25/16	23	5,000	2,000	1,400	280
MCMK-HF C-PRo 4x35/16	26	7,000	2,800	1,800	310
MCMK-HF C-PRo 4x50/25	29	10,000	4,000	2,400	350
MCMK-HF C-PRo 4x70/35	35	14,000	5,600	3,400	420
MCMK-HF C-PRo 4x95/50	38	19,000	7,600	4,600	460
MCMK-HF C-PRo 4x120/70	42	20,000	8,500	5,800	500
MCMK-HF C-PRo 4x150/70	47	20,000	8,500	7,000	560
MCMK-HF C-PRo 4x185/95	52	20,000	8,500	8,700	620
MCMK-HF C-PRo 4x240/120	59	20,000	8,500	12,000	710
MCMK-HF C-PRo 4x300/150	65	20,000	8,500	14,000	780

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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-HF C-PRo 3x25/16	0.35	0.727	0.26	1.15
MCMK-HF C-PRo 3x35/16	0.35	0.524	0.26	1.15
MCMK-HF C-PRo 3x50/25	0.4	0.387	0.26	0.727
MCMK-HF C-PRo 3x70/35	0.4	0.268	0.25	0.524
MCMK-HF C-PRo 3x95/50	0.45	0.193	0.25	0.387
MCMK-HF C-PRo 3x120/70	0.45	0.153	0.24	0.268
MCMK-HF C-PRo 3x150/70	0.5	0.124	0.24	0.268
MCMK-HF C-PRo 3x185/95	0.5	0.0991	0.24	0.193
MCMK-HF C-PRo 3x240/120	0.55	0.0754	0.23	0.153
MCMK-HF C-PRo 3x300/150	0.6	0.0601	0.23	0.124
MCMK-HF C-PRo 4x25/16	0.3	0.727	0.28	1.15
MCMK-HF C-PRo 4x35/16	0.32	0.524	0.28	1.15
MCMK-HF C-PRo 4x50/25	0.35	0.387	0.28	0.727
MCMK-HF C-PRo 4x70/35	0.4	0.268	0.27	0.524
MCMK-HF C-PRo 4x95/50	0.42	0.193	0.27	0.387
MCMK-HF C-PRo 4x120/70	0.44	0.153	0.26	0.268
MCMK-HF C-PRo 4x150/70	0.46	0.124	0.26	0.268
MCMK-HF C-PRo 4x185/95	0.49	0.0991	0.26	0.193
MCMK-HF C-PRo 4x240/120	0.52	0.0754	0.25	0.153
MCMK-HF C-PRo 4x300/150	0.55	0.0601	0.25	0.124

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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-HF C-PRo 3x25/16	3.6	2.4	132	130
MCMK-HF C-PRo 3x35/16	5	2.4	164	160
MCMK-HF C-PRo 3x50/25	7.2	4	200	190
MCMK-HF C-PRo 3x70/35	10	5.2	256	240
MCMK-HF C-PRo 3x95/50	13.6	6.7	310	285
MCMK-HF C-PRo 3x120/70	17.2	9.6	360	325
MCMK-HF C-PRo 3x150/70	21.5	9.6	415	370
MCMK-HF C-PRo 3x185/95	26.5	12	474	420
MCMK-HF C-PRo 3x240/120	34.3	14.8	560	480
MCMK-HF C-PRo 3x300/150	43.1	18.5	646	550
MCMK-HF C-PRo 4x25/16	3.6	2.4	132	130
MCMK-HF C-PRo 4x35/16	5	2.4	164	160
MCMK-HF C-PRo 4x50/25	7.2	4	200	190
MCMK-HF C-PRo 4x70/35	10	5.2	256	240
MCMK-HF C-PRo 4x95/50	13.6	6.7	310	285
MCMK-HF C-PRo 4x120/70	17.2	9.6	360	325
MCMK-HF C-PRo 4x150/70	21.5	9.6	415	370
MCMK-HF C-PRo 4x185/95	26.5	12	474	420
MCMK-HF C-PRo 4x240/120	34.3	14.8	560	480
MCMK-HF C-PRo 4x300/150	43.1	18.5	646	550

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

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