

AXCMK-HF C-PRo 1 kV

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 1001452

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

Aluminium

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	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
0601990	AXCMK-HF C-PRo 4x35/16AN 1kV	6410006019908	Drum	500
0601991	AXCMK-HF C-PRo 4x50/16AN 1kV	6410006019915	Drum	500
0601992	AXCMK-HF C-PRo 4x70/21AN 1kV	6410006019922	Drum	500
0601993	AXCMK-HF C-PRo 4x95/29AN 1kV	6410006019939	Drum	500
0601984	AXCMK-HF C-PRo 4x120/41AN 1kV	6410006019847	Drum	500
0601986	AXCMK-HF C-PRo 4x150/41AN 1kV	6410006019861	Drum	500
0601987	AXCMK-HF C-PRo 4x185/57AN 1kV	6410006019878	Drum	500
0601988	AXCMK-HF C-PRo 4x240/72AN 1kV	6410006019885	Drum	500
0601989	AXCMK-HF C-PRo 4x300/88AN 1kV	6410006019892	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]
AXCMK-HF C-PRo 4x35/16	26	4,200	2,100	900	320
AXCMK-HF C-PRo 4x50/16	29	6,000	3,000	1,100	350
AXCMK-HF C-PRo 4x70/21	33	8,400	4,200	1,500	400
AXCMK-HF C-PRo 4x95/29	37	11,400	5,700	2,000	450
AXCMK-HF C-PRo 4x120/41	42	14,400	7,200	2,600	510
AXCMK-HF C-PRo 4x150/41	47	18,000	8,500	3,000	570
AXCMK-HF C-PRo 4x185/57	52	20,000	8,500	3,800	630
AXCMK-HF C-PRo 4x240/72	58	20,000	8,500	4,800	700
AXCMK-HF C-PRo 4x300/88	64	20,000	8,500	5,900	770

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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]
AXCMK-HF C-PRo 4x35/16	0.32	0.868	0.28	1.15
AXCMK-HF C-PRo 4x50/16	0.35	0.641	0.28	1.15
AXCMK-HF C-PRo 4x70/21	0.4	0.443	0.27	0.868
AXCMK-HF C-PRo 4x95/29	0.42	0.32	0.27	0.641
AXCMK-HF C-PRo 4x120/41	0.44	0.253	0.26	0.443
AXCMK-HF C-PRo 4x150/41	0.46	0.206	0.26	0.443
AXCMK-HF C-PRo 4x185/57	0.49	0.164	0.26	0.32
AXCMK-HF C-PRo 4x240/72	0.52	0.125	0.25	0.253
AXCMK-HF C-PRo 4x300/88	0.55	0.1	0.25	0.206

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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]
AXCMK-HF C-PRo 4x35/16	3.4	2.4	125	125
AXCMK-HF C-PRo 4x50/16	4.8	2.4	152	150
AXCMK-HF C-PRo 4x70/21	6.7	3.3	194	185
AXCMK-HF C-PRo 4x95/29	9	4.4	236	220
AXCMK-HF C-PRo 4x120/41	11.4	6	274	255
AXCMK-HF C-PRo 4x150/41	14.2	6	316	280
AXCMK-HF C-PRo 4x185/57	17.5	8.1	361	330
AXCMK-HF C-PRo 4x240/72	22.6	10.2	425	375
AXCMK-HF C-PRo 4x300/88	28.2	12.8	490	430

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

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