

AXCMK-HF 4X120/41

Low smoke halogen free screen protected 1 kV power cable



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.

CERTIFICATIONS AND DESIGN STANDARDS

EN 60228	Conductor standard
IEC 60502-1	1 kV & 3 kV power cables with extruded insulation.
HD 604-5I	1 kV & 3,3 kV power cables with special fire performance
EN 50575:2014/A1:2016	Cables for general applications in construction works subject to reaction to fire requirements
HD 308 S2	Identification of cores in cables and flexible cords
EN 60332-1-2	Vertical flame propagation for a single insulated wire or cable
EN 60332-3	Tests on electric and optical fibre cables under fire conditions. Part 3: Test for vertical flame spread of vertically-mounted bunched wires or cables.
IEC 60754	Corrosive gases
IEC 61034	Smoke density
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Conductor material	Aluminium
Conductor surface	Bare
Core insulation material	XLPE
Core identification (acc. HD 308 S2)	Yes
Material outer sheath	Halogenfree polymer
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Max. conductor temperature [°C]	90
Permitted cable outer temperature after assembling without vibration (min) [°C]	-40
UV resistant	Yes
Permitted cable outer temperature during assembling/handling (min) [°C]	-15
Bending radius (rule)	12x OD
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Reaction-to-fire class (acc. EN 13501-6)	Cca
Smoke development class (acc. EN 13501-6)	s1
Euro class flaming droplets/particles (acc. EN 13501-6)	d1
Euro class acidity (acc. EN 13501-6)	a1
Flame retardant	In accordance with EN 13501-6

PRODUCT PROPERTIES

Conductor category	Class 2 = stranded
Shape of conductor	Sector-shaped
Nominal cross section conductor [mm ²]	120
Number of cores	5
With protective conductor	Yes
Colour outer sheath	Black
Nominal outer diameter [mm]	42
Conductor resistance at 20° C [Ohm/km]	0.253
Current carrying capacity in air [A]	274
Current carrying capacity in ground [A]	255
Cable weight [kg/km]	2,600
Min. bending radius during installation [mm]	0
DOP number	1001452

Current load in air, installation method E, temperature 25°C

Current load in ground, installation method D2 (directly in ground). Ground temperature 15°C, thermal resistivity 1,0 K·m/W

Item name	EAN-code (GTIN)	Packaging type	Standard packaging quantity
AXCMK-HF C-PRO 4X120/41 AN 1KV - AMCMK-H	6410006019847	Drum	500