

## AXCMK-HF 4X240/72

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

<b>EN 60228</b>	Conductor standard
<b>IEC 60502-1</b>	1 kV & 3 kV power cables with extruded insulation.
<b>HD 604-5I</b>	1 kV & 3,3 kV power cables with special fire performance
<b>EN 50575:2014/A1:2016</b>	Cables for general applications in construction works subject to reaction to fire requirements
<b>HD 308 S2</b>	Identification of cores in cables and flexible cords
<b>EN 60332-1-2</b>	Vertical flame propagation for a single insulated wire or cable
<b>EN 60332-3</b>	Tests on electric and optical fibre cables under fire conditions. Part 3: Test for vertical flame spread of vertically-mounted bunched wires or cables.
<b>IEC 60754</b>	Corrosive gases
<b>IEC 61034</b>	Smoke density

Conductor material	Aluminium
Conductor surface	Bare
Core insulation material	XLPE
Core identification (acc. HD 308 S2)	Yes
Material outer sheath	Halogenfree polymer

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

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 <sup>2</sup> ]	240
Number of cores	5
With protective conductor	Yes
Colour outer sheath	Black
Nominal outer diameter [mm]	58
Conductor resistance at 20° C [Ohm/km]	0.125
Current carrying capacity in air [A]	425
Current carrying capacity in ground [A]	375
Cable weight [kg/km]	4,800
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 4X240/72 AN 1KV - AMCMK-H	6410006019885	Drum	500