

# AXQJ /AMCMK HF 1kV (CPR)

AXQJ 1 kV 4X70/21

## Contact

Installation & Industry Cables  
Phone: 040 70 78 444  
building-pc.se@nexans.com

Nexans ref.: [15153998](#)

Country ref.: 0622863

GTIN: 7330000004733

The cable may be used for fixed installation indoors and outdoors in air, ground and water.

## DESCRIPTION

AXQJ/AMCMK HF is a halogen free, XLPE-insulated, HFFR-sheathed cable with round aluminium conductors up to and including 35 mm<sup>2</sup> and with sector shaped, stranded aluminium conductors from 50 mm<sup>2</sup>. The cable has a screen of annealed copper wires with opposite open helix of copper. AXQJ/AMCMK HF is designed according to HD 603. The conductors have resistance and number of wires according to IEC 60228 class 2. The cores are identified by colours according to HD 308. The sheath is marked type/manufacturer/year+month/metre marking. AXQJ/AMCK HF meets the requirements for fire classification according to CPR D<sub>ca</sub>s2d2a2. The cable is certified by Intertek SEMKO.

## Standards

AXQJ/AMCMK HF is manufactured and tested according to HD 603 3-L. The cable can be loaded in accordance with national regulations on electrical installations.

## Certification

Approved by Intertek SEMKO.

## Quality and environmental management system

Certified according to ISO 9001, IRIS, ISO/TS 16949 and ISO 14001.

## Lifemark(TM) recycling marking

The external surface of the outer sheath is embossed with a text which specifies all components in the polymers and prepares the cable for future recycling.

## EcoCalculator

Choose the best cable solution to achieve Energy Efficiency, reduced Carbon Footprint and improved Safety of people in case of fire, whilst ensuring a good return on Investment.



# Lifemark™

## DECLARATION OF PERFORMANCE

Reaction to fire: D<sub>ca</sub>-s2,d2,a2  
according to EN50575:2014  
+A1:2016

## STANDARDS

International HD 603 S1/3L



Reaction to fire  
D<sub>ca</sub>-s2,d2,a2



Halogen free  
Yes



Rated Voltage U<sub>o</sub>/U  
(U<sub>m</sub>)  
0.6/1 kV



Minimum  
installation  
temperature  
-10 °C



Maximum operating  
temperature  
90 °C



Smoke density  
IEC 61034



U.V resistance  
Very good



Minimum operating  
temperature  
-40 °C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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## CHARACTERISTICS

### Construction characteristics

Conductor material	Aluminum
Insulation	XLPE (chemical)
Conductor shape	Sector-shaped
Outer sheath	HFFR (polyolefin)
Colour	Black
Halogen free	Yes
With Green/Yellow core	No
With smaller neutral conductor	No

### Dimensional characteristics

Number of cores	4
Conductor cross-section	70 mm <sup>2</sup>
Average insulation thickness	2.1 mm
Screen section	21 mm <sup>2</sup>
Average sheath thickness	2.0 mm
Nominal outer diameter	33.3 mm
Approximate weight	144.2 kg/100m

### Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.443 Ohm/km
Resistance of the screen	0.87 Ohm/km
Nominal inductance	0.19 mH/km
Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	0.6/1 kV

### Usage characteristics

Minimum installation temperature	-10 °C
Recommended minimum installation temperature	0 °C
Maximum operating temperature	90 °C
Short-circuit max. conductor temperature	250 °C
Length	500 m
Packaging	K12
Smoke density	IEC 61034
U.V resistance	Very good
Minimum operating temperature	-40 °C
Bending factor when installed	8 (xD)
Bending factor when laying	12 (xD)



Reaction to fire  
Dca-s2,d2,a2



Halogen free  
Yes



Rated Voltage U<sub>0</sub>/U  
(U<sub>m</sub>)  
0.6/1 kV



Minimum installation  
temperature  
-10 °C



Maximum operating  
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90 °C



Smoke density  
IEC 61034



U.V resistance  
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## SELLING INFORMATION

AXQJ/AMCMK HF will be delivered in lengths of 500 m The drum is marked with manufacturer, type of cable and length. The ends of the cable are sealed.



Reaction to fire  
Dca-s2,d2,a2



Halogen free  
Yes



Rated Voltage Uo/U  
(Um)  
0.6/1 kV



Minimum  
installation  
temperature  
-10 °C



Maximum operating  
temperature  
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Smoke density  
IEC 61034



U.V resistance  
Very good



Minimum operating  
temperature  
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