

# AXQJ 1kV

AXQJ 1 kV 3X50/16

Nexans Ref.: 15152398  
Country Ref.: 0014615  
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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

D<sub>ca</sub>-s2,d2,a2

## STANDARDS

International HD 603 S1/3L

National SS 424 14 18



Halogen free  
Yes



Conductor flexibility  
Class 2



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



Minimum  
installation  
temperature  
-10 °C



Maximum operating  
temperature  
90 °C



Bending factor  
installed  
8 (xD)



Bending factor  
when laying  
12 (xD)



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
Conductor flexibility	Class 2
With Green/Yellow core	No
With smaller neutral conductor	No

#### Dimensional characteristics

Number of cores	3
Conductor cross-section	50 mm <sup>2</sup>
Average insulation thickness	1.0 mm
Screen section	16 mm <sup>2</sup>
Average sheath thickness	1.9 mm
Nominal outer diameter	26.0 mm
Approximate weight	87.0 kg/100m
Neutral conductor section (when smaller)	- mm <sup>2</sup>

#### Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.641 Ohm/km
Resistance of the screen	1.2 Ohm/km
Nominal inductance	0.21 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	K11
Bending factor when installed	8 (xD)
Bending factor when laying	12 (xD)
Installation type	-
Minimum operating temperature	-40 °C
Smoke density	IEC 61034
U.V resistance	Very good

### SELLING AND DELIVERY 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.