

# AXQJ /AMCMK HF 1kV (CPR)

AXQJ 1 kV 4X240/72

Nexans Ref.: 15154498

Country Ref.: 0622868

EAN 13: 7330000077614

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



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                          | 4                   |
| Conductor cross-section                  | 240 mm <sup>2</sup> |
| Average insulation thickness             | 1.7 mm              |
| Screen section                           | 72 mm <sup>2</sup>  |
| Average sheath thickness                 | 2.9 mm              |
| Nominal outer diameter                   | 57.0 mm             |
| Approximate weight                       | 435.0 kg/100m       |
| Neutral conductor section (when smaller) | - mm <sup>2</sup>   |

### Electrical characteristics

|   |              |
|---|--------------|
| Max. DC resistance of the conductor at 20°C       | 0.125 Ohm/km |
| Resistance of the screen                          | 0.25 Ohm/km  |
| Nominal inductance                                | 0.13 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                                    | K22       |
| 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.

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