

# FXQJ EMC 1 kV

FXQJ EMC1 kV 4X50/25

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The cable may be used for fixed installation indoors and outdoors in air, ground and water and it is suitable for use in industrial facilities and other establishments there EMI may cause problems.

## DESCRIPTION

FXQJMCMK HF EMC is a halogen free, XLPE-insulated, HFFR-sheathed cable with circular, stranded copper conductors for cross-sections up to 35 mm<sup>2</sup>. Larger cross-sections have sector shaped, stranded copper conductors. FXQJ/MCMK HF EMC is designed according to HD 604. The cable has a screen of annealed copper wires with opposite overlapping helix of copper tape. The copper screen has an optical coverage of 100 % and fulfil the EMC directive when it is correct installed. 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 outer sheath is UV-protected and is marked type/manufacturer/flame propagation/year+month/metre marking. FXQJ/MCMK HF EMC meets the requirements for flame class Dcas2d2a2 according to CPR and emits no corrosive gases during fire. The cable is certified by Intertek SEMKO.

### 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.

### Standards

FXQJ/MCMK HF EMC is manufactured and tested according to HD 604 S1-5D in applicable parts. The cable can be loaded according to SS 424 14 24.

### Certification

Approved by Intertek SEMKO.

### Quality and environmental management system

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



Lifemark™

## DECLARATION OF PERFORMANCE

Dca-s2,d2,a2

## STANDARDS

International HD 604.5D

National SS 424 14 18



Conductor flexibility  
**Stranded**



Halogen free  
**Yes**



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



Minimum installation  
temperature  
**-10 °C**



Maximum operating  
temperature  
**90 °C**



U.V resistance  
**Yes**



Electro magnetic  
interference  
resistance



Water proof  
**Good**

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

### Dimensional characteristics

Conductor diameter	- mm
Number of cores	4
Average insulation thickness	1.0 mm
Screen section	25 mm <sup>2</sup>
Average sheath thickness	2.0 mm
Nominal outer diameter	29.0 mm
Approximate weight	290.0 kg/100m
Conductor cross-section	50 mm <sup>2</sup>
Neutral conductor section (when smaller)	- mm <sup>2</sup>

### Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.387 Ohm/km
Resistance of the screen	0.73 Ohm/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
U.V resistance	Yes
Short-circuit max. conductor temperature	250 °C
Electro magnetic interference resistance	
Packaging	K12
Water proof	Good
Length	500 m
Bending factor when installed	8 (xD)
Bending factor when laying	12 (xD)
Gases corrosivity	IEC 60754-2
Installation type	Indoor/Outdoor
Minimum operating temperature	-40 °C
Smoke density	IEC 61034

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## SELLING AND DELIVERY INFORMATION

FXQJ/MCMK HF EMC 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.