

# IFSI-EMC 0,6/1 kV Cu (2x1,5 - 4x6 mm<sup>2</sup>) w/Al-screen

IFSI-EMC 1kV 4x2,5/2,5

**International Designation:** NO-N1XA5Z1-U

**Nexans Ref.:** 10118486

**Country Ref.:** 1067327

**EAN 13:** 7045210042603

Halogen free installation cable

## DESCRIPTION

IFSI-EMC with Al-screen is a halogen free, XLPE-insulated, HFFR-sheathed cable with solid circular copper conductors (class 1 according to IEC 60228). IFSI-EMC is designed according to NEK HD 604-5D. The screen consists of a longitudinal Aluminium tape in contact with a solid copper wire. For cables with cross sections 1,5 and 2,5 mm<sup>2</sup> the Al-screen is overlapping with 100% optical coverage. For cables with cross sections 4 and 6 mm<sup>2</sup> the screen has a longitudinal gap, no larger than 4 mm. 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. IFSI-EMC meets the requirements for class Dca -s2d2a2 according to CPR and emits no corrosive gases during fire.

## Lifemark(TM) recycling marking

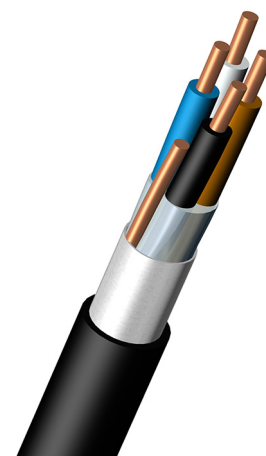
The external surface of the outer sheath is embossed with a text which specifies all components in the polymers and prepares the cable for future recycling.

## Standards

IFSI-EMC is manufactured and tested according to HD 604-5D.

## 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** NEK HD 604-5D



Conductor flexibility  
**Stranded class 2**



Halogen free  
**Yes**



Rated Voltage U<sub>o</sub>/U<sub>m</sub>  
**0,6/1 kV**



Cable flexibility  
**Rigid**



Minimum installation temperature  
**-10 °C**



Maximum operating temperature  
**90 °C**



U.V resistance  
**Yes**



Electro magnetic interference resistance  
**-**

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	Copper
Conductor flexibility	Stranded class 2
Insulation	XLPE (chemical)
Outer sheath	Halogen free compound
Colour	-
Halogen free	Yes
Conductor shape	Round normal
Screen	-
With Green/Yellow core	No
With smaller neutral conductor	No

### Dimensional characteristics

Conductor diameter	1.8 mm
Number of cores	4
Average insulation thickness	- mm
Screen section	2.5 mm <sup>2</sup>
Average sheath thickness	- mm
Nominal outer diameter	12.1 mm
Approximate weight	25.8 kg/100m
Conductor cross-section	2.5 mm <sup>2</sup>
Neutral conductor section (when smaller)	2.5 mm <sup>2</sup>

### Electrical characteristics

Max. DC resistance of the conductor at 20°C	- Ohm/km
Resistance of the screen	- Ohm/km
Rated Voltage U <sub>0</sub> /U (Um)	0.6/1 kV

### Mechanical characteristics

Cable flexibility	Rigid
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### 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	- °C
Electro magnetic interference resistance	-
Water proof	Good
Packaging	Drum
Length	500 m
Bending factor when installed	8 (xD)
Bending factor when laying	8 (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

IFSI-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.