



Nexans Ref.: 16490398-898-05

Country Ref.: 0127815

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FIRE PERFORMANCE CLASS



D_{ca}-s2,d2,a2

Lifemark™

Halogen free control cable with copper wire screen. The cable is designed for fixed installation indoors and outdoors as well as in the ground and water.

STANDARDS

National SS 424 03 21

DESCRIPTION

FQFR is a halogen free, HFFR-insulated cable with one layer of annealed copper wires with opposite open helix of copper. The conductors are circular, stranded copper and the sheath is of HFFR-material. The cable is constructed according to SS 424 03 21 in applicable parts. The conductors and resistance complies with IEC 60228 part 2. The cores are identified by numbers according to SS 424 17 20. FQFR meets the fire requirements according to CPR Dcas2d2a2 and emits no corrosive gases when burning and has low smoke production. The sheath is marked, ie: "FQFR 7x1,5 500V NEXANS GS HALOGENFRI" year month + metermarking. The cable is approved by Intertek SEMKO.

Lifemark™ 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

FQFR is manufactured and tested according to SS 424 03 21 in applicable parts.

Certification

Approved by Intertek SEMKO.

Quality and environmental management system

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



Halogen free
Yes



Rated Voltage U_o/U (Um)
450/750 V



Minimum installation temperature
-10 °C



U.V resistance
Yes



Ambient static op. temp
-35 ... 70 °C



Bending factor when laying
8 (xD)

CHARACTERISTICS

Construction characteristics

| | |
|--------------------|-------------------------|
| Conductor material | Copper |
| Conductor shape | Round, stranded |
| Insulation | Halogen free polyolefin |
| Outer sheath | HFFR (polyolefin) |
| Colour | Grey |
| Halogen free | Yes |

Dimensional characteristics

| | |
|------------------------------|---------------------|
| Number of cores | 19 |
| Conductor cross-section | 1.5 mm ² |
| Average insulation thickness | 0.7 mm |
| Average sheath thickness | 1.5 mm |
| Conductor diameter | 1.6 mm |
| Nominal outer diameter | 19.5 mm |
| Approximate weight | 54.7 kg/100m |

Electrical characteristics

| | |
|---|-------------|
| Conductor electrical resistance | 12.1 Ohm/km |
| Rated Voltage U ₀ /U (U _m) | 450/750 V |

Usage characteristics

| | |
|--|---------------|
| Minimum installation temperature | -10 °C |
| U.V resistance | Yes |
| Recommended minimum installation temperature | 0 °C |
| Short-circuit max. conductor temperature | 150 °C |
| Length | 500 m |
| Packaging | K9 |
| Ambient static operating temperature, range | -35 ... 70 °C |
| Bending factor when laying | 8 (xD) |

SELLING AND DELIVERY INFORMATION

FQFR 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.