

MCMO-HF 450/750 V (CPR)

MCMO-HF 450/750 V 12X2,5

Nexans Ref.: 36082298

Country Ref.: 0406686

The cable may be used for fixed installation indoors and outdoors, also in ground and water, for control and signalling functions in power electrical applications.

DESCRIPTION

MCMO-HF is a halogenfree insulated, copper wire screened, HFFR sheathed control cable with circular, solid copper conductors. The cable is designed according to HD 627 in applicable parts. The conductors have resistance and number of wires according to IEC 60228 class 1. The cores are identified by numbers according to HD 308. The sheath is marked type/manufacturer/year+month/metre marking. MCMO-HF meets the requirements for class D_{ca}s₂d₂a₂ according to CPR. The cable is certified by SETI.

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

MCMO-HF is manufactured and tested according to SFS 3713 (HD 627.4 D-2).

Certification

Certified by SETI.

Quality and environmental management system

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



Lifemark™

DECLARATION OF PERFORMANCE

D_{ca}-s₂,d₂,a₂

STANDARDS

International HD 627.4 S1/C1;
IEC 60332-1



Lead free
Yes



Conductor flexibility
Solid



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



Minimum
installation
temperature
-10 °C



Maximum operating
temperature
70 °C



Ambient static op.
temp
-40 - 70 °C



Operation bending
rad.
148 mm



U.V resistance
Yes

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 shape	Round normal
Insulation	HFFR
Outer sheath	HFFR (Halogene Free Flame Retardant)
Colour	Grey
Lead free	Yes
Conductor flexibility	Solid

Dimensional characteristics

Number of cores	12
Number of pairs	1
Conductor cross-section	2.5 mm ²
Nominal outer diameter	18.5 mm
Average insulation thickness	0.8 mm
Approximate weight	56.6 kg/100m
Average sheath thickness	1.6 mm

Electrical characteristics

Max. DC resistance of the conductor at 20°C	7.41 Ohm/km
Resistance of the screen	0.0 Ohm/km
Rated Voltage U ₀ /U (Um)	450 / 750 V

Usage characteristics

Minimum installation temperature	-10 °C
Maximum operating temperature	70 °C
Short-circuit max. conductor temperature	150 °C
Ambient static operating temperature, range	-40 - 70 °C
Length	500 m
Laying operation bending radius	148 mm
Packaging	K9
U.V resistance	Yes
Water proof	Good

SELLING AND DELIVERY INFORMATION

MCMO-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.