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International Designation: MPRX FLEXISHIP 331 0.6/1kV 1x70

FIRE RESISTANT POWER CABLES

STANDARDS

Product IEC 60228

Installation IEC 60092-350; IEC 60092-353; IEC 60092-360

Test a; IEC 60331-1 or 2; IEC 60332-1; IEC 60332-3-22; IEC 60754-1; IEC 61034

APPLICATION

MPRX®331 0.6/1 kV fire resistant power and control cables maintain circuit integrity in case of fire by meeting performances requirements from the IEC 60331 series for 180 minutes. They are used for detection and warning systems not subject to mechanical risks.

The highly flexible MPRX®331 FLEXISHIP® range is recommended for installations and connections in narrow spaces where an optimal bending radius is required. Designed with halogen-free fire retardant materials, they provide optimum safety for people and maximal asset protection against all risks of fire.

Design

1. Conductor

Stranded bare copper, class 2 or class 5 for FLEXISHIP®

2. Insulation

Mica tape + XLPE (cross-linked polyethylene)

3. Outer sheath

(Filler if necessary)
 Polyolefin SHF1
 Colour: orange

Example of marking:

LYNXEO 279 MPRX 331 or MPRX 331 FLEXISHIP 0.6/1 kV "n" x (orG) "s" 90°C IEC 60092-353 IEC 60332-3-22 Cat. A IEC 60331-1/21 "ww/yy" * CE* + metric marking

Core Identification

1 x: black

2 x: brown-blue

3 x: brown-black-grey

3G: brown-blue-green/yellow

4 x: brown-black-grey-blue

4G: brown-black-grey-green/yellow

> 5 cores: n x: white with printed numbers / nG: white with printed numbers + green/yellow core



Halogen free
 IEC 60754-1



Conductor flexibility
 Stranded class 5



Rated Voltage Uo/U
 (Um)
 0.6/1 (1.2) kV



Fire resistant
 IEC 60331-1 or -2



Fire retardant
 EN IEC 60332-3-22
 (cat A)



Smoke density
 IEC 61034



Gases corrosivity
 IEC 60754-2



Operating temp.
 -30 ... 80 °C

CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Halogen free	IEC 60754-1
Sheath colour	Orange
Insulation	XLPE + Mica tape
Material of filler / inner sheath	Filler if necessary
Outer sheath	Polyolefin
Conductor flexibility	Stranded class 5
With Green/Yellow core	No

Dimensional characteristics

Number of cores	1
Conductor cross-section	70 mm ²
Minimum outer diameter	15.5 mm
Maximum outer diameter	17.5 mm
Approximate weight	740 kg/km
Nominal outer diameter	16.1 mm

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	0.6/ 1 (1.2) kV
Permissible short circuit current	10 kA
Permissible current rating in open air	242 A
Max. DC resistance of the conductor at 20°C	0.272 Ohm/km

Usage characteristics

Fire resistant	IEC 60331-1 or -2
Fire retardant	EN IEC 60332-3-22 (cat A)
Smoke density	IEC 61034
Gases corrosivity	IEC 60754-2
Operating temperature, range	-30 ... 80 °C
Max. conductor temperature in service	90 °C

OTHER CHARACTERISTICS

Test Voltage

AC between cores..... 3.5 kV AC

Minimum bending radius for fixed installations

- MPRX® 331..... 6 x outer diameter
- MPRX® 331 FLEXISHIP®..... 5 x outer diameter