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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

APPLICATIONS

MPRXCX®331 0.6/1 kV armoured 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 where enhanced mechanical protection and electrical screening (EMC) is required.

The highly flexible MPRXCX®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 + XLPE (cross-linked polyethylene)

3. Inner covering

(lapped)

4. Armouring

Bare copper braid, separator tape (optional)

5. Outer sheath

Polyolefin SHF1

Colour: orange

Example of marking:

LYNXEO 279 MPRXCX 331 or MPRXCX 331 FLEXISHIP 0.6/1 kV 3x1.5

90°C IEC 60092-353 IEC 60332-3-22 Cat. A IEC 60331-2 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



Halogen free
 IEC 60754-1



Conductor flexibility
 Flexible class 5



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



Fire resistant
 IEC 60331-1 or -2



Flame retardant
 IEC 60332-3 Cat. A



Smoke density
 IEC 61034



Gases corrosivity
 IEC 60754-2



Electro magnetic
 interference
 resistance
 Yes

CHARACTERISTICS

Construction characteristics

Halogen free	IEC 60754-1
Conductor flexibility	Flexible class 5
Conductor material	Bare copper
Insulation	XLPE + Mica tape
Protection	Filler (optional)
Outer sheath	Polyolefin
Armour type	Bare copper braid
Sheath colour	Orange
With Green/Yellow core	No

Dimensional characteristics

Number of cores	1
Conductor cross-section	95 mm ²
Minimum outer diameter	18.5 mm
Nominal outer diameter	- mm
Maximum outer diameter	21.5 mm
Approximate weight	1090 kg/km

Electrical characteristics

Permissible current rating in open air	293 A
Rated Voltage U ₀ /U (Um)	0.6/ 1 (1.2) kV
Test voltage	3500 V

Usage characteristics

Fire resistant	IEC 60331-1 or -2
Flame retardant	IEC 60332-3 Cat. A
Smoke density	IEC 61034
Gases corrosivity	IEC 60754-2
Electro magnetic interference resistance	Yes
Operating temperature, range	-30 ... 80 °C
Max. conductor temperature in service	90 °C



Halogen free
IEC 60754-1



Conductor flexibility
Flexible class 5



Rated Voltage U₀/U (Um)
0.6/ 1 (1.2) kV



Fire resistant
IEC 60331-1 or -2



Flame retardant
IEC 60332-3 Cat. A



Smoke density
IEC 61034



Gases corrosivity
IEC 60754-2



Electro magnetic interference resistance
Yes

OTHER CHARACTERISTICS

Test Voltage

AC between cores..... 3.5 kV AC

Minimum bending radius for fixed installations

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