



CONTACT

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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_i
 (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 | 120 mm ² |
| Minimum outer diameter | 20.5 mm |
| Nominal outer diameter | - mm |
| Maximum outer diameter | 23.5 mm |
| Approximate weight | 1350 kg/km |

Electrical characteristics

| | |
|--|-----------------|
| Permissible current rating in open air | 339 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