



## 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<sub>o</sub>/U<sub>i</sub>  
(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 | 240 mm <sup>2</sup> |
| Minimum outer diameter  | 28.0 mm             |
| Nominal outer diameter  | - mm                |
| Maximum outer diameter  | 31.0 mm             |
| Approximate weight      | 2593 kg/km          |

### Electrical characteristics

|  |                 |
|--|-----------------|
| Permissible current rating in open air | 522 A           |
| Rated Voltage U <sub>0</sub> /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 U<sub>0</sub>/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