



Reference: 10285274

CONTACT

Market information
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POWER & CONTROL cables with screen

STANDARDS

Product IEC 60228

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

Test a; IEC 60332-1; IEC 60332-3-22; IEC 60754-1; IEC 61034

APPLICATIONS

MPRXCX® 0.6/1 kV armoured power and control cables are used for wiring fixed installations where enhanced mechanical protection and electrical screening is required.

The highly flexible MPRXCX® FLEXISHIP® range is recommended for installations and connections in narrow spaces where an optimal bending radius is required. The sectoral conductors of multicore cables provide further space and weight savings on the cable trays. 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 flexible bare copper, class 5 for FLEXISHIP® types (cross sections $\geq 4 \text{ mm}^2$)
- 2. Insulation:**
XLPE (cross-linked polyethylene)
- 3. Inner covering:**
(Filler, if necessary)
Lapped
- 4. Armouring:**
Bare copper braid
- 5. Outer sheath:**
Polyolefin SHF1
Colour: black

Example of marking:

LYNXEO 279 MPRXCX or MPRXCX FLEXISHIP Nbr of cores & cross-section 0.6/1kV 90C
IEC 60092-353 IEC 60332-3-22 Cat. A WW YYYY *CE* Manufacturing n° + 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 x: white with printed numbers
- 5G: brown-black-grey-blue-green/yellow
- > 5 cores: n x: white with printed numbers
- > 5 cores: nG: white with printed numbers + green/yellow core



Conductor flexibility
Flexible class 5



Halogen free
IEC 60754-1



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



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



Flame retardant
IEC 60332-1



Smoke density
IEC 61034



Gases corrosivity
IEC 60754-2



Electro magnetic
interference
resistance
Yes

CHARACTERISTICS

Construction characteristics

| | |
|------------------------|-----------------------------------|
| Conductor material | Bare copper |
| Insulation | XLPE (Cross-linked Polyethylene) |
| Conductor flexibility | Flexible class 5 |
| Inner sheath | Lapped or extruded inner covering |
| Armour type | Bare copper braid |
| Conductor shape | Circular |
| Outer sheath | Polyolefin |
| Halogen free | IEC 60754-1 |
| Sheath colour | Black |
| With Green/Yellow core | Yes |

Dimensional characteristics

| | |
|-------------------------|---------------------|
| Number of cores | 3 |
| Conductor cross-section | 185 mm ² |
| Nominal outer diameter | - mm |
| Minimum outer diameter | 58.7 mm |
| Maximum outer diameter | 51.1 mm |
| Approximate weight | 6278 kg/km |

Electrical characteristics

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

Usage characteristics

| | |
|--|---------------------------|
| Fire retardant | EN IEC 60332-3-22 (cat A) |
| Flame retardant | IEC 60332-1 |
| 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 |



Conductor flexibility
Flexible class 5



Halogen free
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0.6/ 1 (1.2) kV



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



Flame retardant
IEC 60332-1



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

- cable diameter **MPRXCX®**..... 6 x outer diameter
- cable diameter **MPRXCX® FLEXISHIP®**..... 5 x outer diameter



Conductor flexibility
Flexible class 5



Halogen free
IEC 60754-1



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(Um)
0.6/ 1 (1.2) kV



Fire retardant
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