



Reference: 10270184

### 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	16 mm <sup>2</sup>
Nominal outer diameter	18.2 mm
Minimum outer diameter	16.9 mm
Maximum outer diameter	19.5 mm
Approximate weight	644 kg/km

### Electrical characteristics

Permissible current rating in open air	67 A
Rated Voltage U <sub>0</sub> /U (Um)	0.6/ 1 (1.2) kV
Max. DC resistance of the conductor at 20°C	1.15 Ohm/km
Permissible short circuit current	2.3 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  
IEC 60754-1



Rated Voltage U<sub>0</sub>/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

## 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



Rated Voltage U<sub>0</sub>/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