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CONTACT

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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	No

Dimensional characteristics

Number of cores	1
Conductor cross-section	50 mm ²
Nominal outer diameter	15.4 mm
Minimum outer diameter	14.3 mm
Maximum outer diameter	16.5 mm
Approximate weight	627 kg/km

Electrical characteristics

Permissible current rating in open air	196 A
Rated Voltage U _o /U (Um)	0.6/ 1 (1.2) kV
Max. DC resistance of the conductor at 20°C	0.386 Ohm/km
Permissible short circuit current	7.2 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_o/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 U₀/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
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Electro magnetic
interference
resistance
Yes