



**Reference:** 10233672  
**EAN 13:** 3427650138148

#### CONTACT

Market information  
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#### MEDIUM VOLTAGE CABLES

#### STANDARDS

**Product** IEC 60228

**Installation** IEC 60092-350; IEC 60092-354; IEC 60092-360

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

#### APPLICATION

MPRXCX® FLEXISHIP® 6/10 kV armoured power cables are used for critical medium voltage systems where enhanced mechanical protection and electrical screening (EMC) is required. These products are recommended for installations and connections in environments 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.

MPRXCX® FLEXISHIP® 6/10 kV cables are compatible with Nexans' medium voltage accessories to connect generators, switchgears and transformers.

#### Design

1. **Conductor**  
Flexible bare copper  
Class 5
2. **Extruded semi-conducting layer**
3. **Insulation**  
XLPE (cross-linked polyethylene)
4. **Screen**  
Extruded semi-conducting layer  
Concentric layer of copper wires
5. **Inner covering**  
Halogen-free polyolefin
6. **Armouring**  
Bare copper braid
7. **Outer sheath:**  
Polyolefin SHF1  
Colour: red

Example of marking:

LYNXEO 279 MPRXCX FLEXISHIP "n" x "s" mm<sup>2</sup> 6/10 kV 90° C IEC 60092-354  
IEC 60332-3-22 "ww/yy" + metric marking



Halogen free  
IEC 60754-1



Rated Voltage U<sub>0</sub>/U  
(Um)  
6 / 10 (12) 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



Operating temp.  
-30 ... 80 °C

## CHARACTERISTICS

## Construction characteristics

|                                      |                                           |
|--------------------------------------|-------------------------------------------|
| Conductor material                   | Bare copper                               |
| Type of conductor                    | Flexible, Classe 5                        |
| Material of the inner semi-conductor | Extruded                                  |
| Insulation                           | XLPE (Cross-linked Polyethylene)          |
| Screen                               | Extruded semi-conductor, bare copper tape |
| Inner sheath                         | Halogen free polyolefin                   |
| Armour type                          | Bare copper braid                         |
| Outer sheath                         | Polyolefin                                |
| Sheath colour                        | Red                                       |
| Halogen free                         | IEC 60754-1                               |

## Dimensional characteristics

|                         |                     |
|-------------------------|---------------------|
| Number of cores         | 1                   |
| Conductor cross-section | 240 mm <sup>2</sup> |
| Nominal outer diameter  | 42.0 mm             |
| Minimum outer diameter  | 39.1 mm             |
| Maximum outer diameter  | 44.9 mm             |
| Approximate weight      | 3620 kg/km          |

## Electrical characteristics

|                                                   |                |
|---------------------------------------------------|----------------|
| Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> ) | 6 / 10 (12) kV |
| Permissible current rating in open air            | 522 A          |

## 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                     |



Halogen free  
IEC 60754-1



Rated Voltage U<sub>0</sub>/U  
(U<sub>m</sub>)  
6 / 10 (12) 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  
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-30 ... 80 °C