

# MPRXCX® FLEXISHIP® 6/10 (12) kV

## MPRXCX® FLEXISHIP® 6/10KV 3X120

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### MEDIUM VOLTAGE CABLES

## DESCRIPTION

### 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

- Conductor**  
Flexible bare copper  
Class 5
- Extruded semi-conducting layer**
- Insulation**  
XLPE (cross-linked polyethylene)
- Screen**  
Extruded semi-conducting layer  
Concentric layer of copper wires
- Inner covering**  
Halogen-free polyolefin
- Armouring**  
Bare copper braid
- Outer sheath:**  
Polyolefin SHF1 (SHF2 on request)  
Colour: red

### Marking

I NEXANS I 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



### STANDARDS

**International** IEC 60092-350;  
IEC 60092-354; IEC 60092-360;  
IEC 60228; IEC 60332-1;  
IEC 60332-3-22; IEC 60754-1;  
IEC 60754-2; IEC 61034



Halogen free  
IEC 60754-1



Rated Voltage Uo/U  
(Um)  
6 / 10 (12) kV



Flame retardant  
IEC 60332-1



Fire retardant  
IEC 60332-3-22



Smoke density  
IEC 61034



Gases toxicity  
No



Operating temp.  
-30 - 80 °C



Electro magnetic  
interference  
resistance  
Yes

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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## CHARACTERISTICS

### Construction characteristics

|                                      |   |
|--------------------------------------|---|
| Conductor material                   | Bare copper                               |
| 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                                |
| Halogen free                         | IEC 60754-1                               |
| Sheath colour                        | Red                                       |

### Dimensional characteristics

|                         |                     |
|-------------------------|---------------------|
| Number of cores         | 3                   |
| Conductor cross-section | 120 mm <sup>2</sup> |
| Nominal outer diameter  | 61.4 mm             |
| Minimum outer diameter  | 64.0 mm             |
| Maximum outer diameter  | 70.0 mm             |
| Approximate weight      | 7760 kg/km          |

### Electrical characteristics

|  |                |
|--|----------------|
| Rated Voltage U <sub>o</sub> /U (Um)   | 6 / 10 (12) kV |
| Permissible current rating in open air | 237 A          |

### Usage characteristics

|  |                |
|--|----------------|
| Flame retardant                          | IEC 60332-1    |
| Standard                                 | IEC            |
| Fire retardant                           | IEC 60332-3-22 |
| Smoke density                            | IEC 61034      |
| Gases toxicity                           | No             |
| Operating temperature, range             | -30 - 80 °C    |
| Electro magnetic interference resistance | Yes            |



Halogen free  
IEC 60754-1



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



Flame retardant  
IEC 60332-1



Fire retardant  
IEC 60332-3-22



Smoke density  
IEC 61034



Gases toxicity  
No



Operating temp.  
-30 - 80 °C



Electro magnetic interference resistance  
Yes