

# MPRXCX® FLEXISHIP® 6/10 (12) kV

## MPRXCX® FLEXISHIP® 6/10KV 3X50

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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	50 mm <sup>2</sup>
Nominal outer diameter	52.3 mm
Minimum outer diameter	50.5 mm
Maximum outer diameter	55.5 mm
Approximate weight	4470 kg/km

### Electrical characteristics

Rated Voltage U <sub>o</sub> /U (Um)	6 / 10 (12) kV
Permissible current rating in open air	137 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