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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" mm² 6/10 kV 90° C IEC 60092-354
IEC 60332-3-22 "ww/yy" + metric marking



Halogen free
IEC 60754-1



Rated Voltage U₀/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	3
Conductor cross-section	95 mm ²
Nominal outer diameter	57.5 mm
Minimum outer diameter	60.0 mm
Maximum outer diameter	66.0 mm
Approximate weight	6580 kg/km

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	6 / 10 (12) kV
Permissible current rating in open air	205 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 60754-1Rated Voltage U₀/U
(U_m)
6 / 10 (12) kVFire retardant
EN IEC 60332-3-22
(cat A)Flame retardant
IEC 60332-1Smoke density
IEC 61034Gases corrosivity
IEC 60754-2Electro magnetic
interference
resistance
YesOperating temp.
-30 ... 80 °C