



## CONTACT

Market information  
industryprojects.business@lynxéo  
ogroup.com

## FIRE RESISTANT POWER CABLES

### STANDARDS

**Product** IEC 60228

**Installation** IEC 60092-350; IEC 60092-353; IEC 60092-360

**Test a;** IEC 60331-1 or 2; IEC 60332-1; IEC 60332-3-22; IEC 60754-1; IEC 61034

### APPLICATIONS

MPRXCX®331 0.6/1 kV armoured fire resistant power and control cables maintain circuit integrity in case of fire by meeting performances requirements from the IEC 60331 series for 180 minutes. They are used for detection and warning systems where enhanced mechanical protection and electrical screening (EMC) is required.

The highly flexible MPRXCX®331 FLEXISHIP® range is recommended for installations and connections in narrow spaces 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.

## Design

### 1. Conductor

Stranded bare copper class 2 or class 5 for FLEXISHIP®

### 2. Insulation

Mica + XLPE (cross-linked polyethylene)

### 3. Inner covering

(lapped)

### 4. Armouring

Bare copper braid, separator tape (optional)

### 5. Outer sheath

Polyolefin SHF1

Colour: orange

Example of marking:

LYNXEO 279 MPRXCX 331 or MPRXCX 331 FLEXISHIP 0.6/1 kV 3x1.5

90°C IEC 60092-353 IEC 60332-3-22 Cat. A IEC 60331-2 ww/yy \*CE\*+ 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 cores: n x: white with printed numbers / nG: white with printed numbers + green/yellow core



Rated Voltage U<sub>o</sub>/U<sub>m</sub> (Um)  
0.6/ 1 (1.2) kV



Fire resistant  
IEC 60331-1 or -2



Flame retardant  
IEC 60332-3 Cat. A



Gases corrosivity  
IEC 60754-2



Electro magnetic interference resistance  
Yes

**CHARACTERISTICS**

**Electrical characteristics**

Rated Voltage U<sub>0</sub>/U (U<sub>m</sub>) 0.6/ 1 (1.2) kV

**Usage characteristics**

Fire resistant IEC 60331-1 or -2

Flame retardant IEC 60332-3 Cat. A

Gases corrosivity IEC 60754-2

Electro magnetic interference resistance Yes

**MPRXCX® 331**

Reference	Nb. of cores	Cross section [mm <sup>2</sup> ]	Green/ Yellow core	Min. outer diam. [mm]	Nom. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10171729	2	1.5	No	10.0	-	12.5	130
10171736	2	2.5	No	10.5	-	12.5	162
	2	25	No	21.0	-	24.5	1130
	3	1.5	No	10.0	-	13.0	184
10171731	3	1.5	No	10.5	-	13.0	153
	3	1.5	No	12.6	-	14.4	223
10171730	3	1.5	Yes	10.0	-	13.0	184
10171737	3	2.5	No	11.5	-	14.0	201
10184818	3	2.5	Yes	12.6	-	14.4	223
10283052	4	1.5	No	11.5	-	14.0	189
10282555	4	2.5	No	13.8	-	15.8	273
10171732	5	1.5	No	12.0	-	14.0	233
10280639	5	1.5	Yes	14.0	-	16.1	271
10270138	5	2.5	Yes	15.0	-	17.2	332
10171733	7	1.5	No	14.0	-	16.5	308
10282451	7	2.5	No	15.0	-	17.5	383
10171734	12	1.5	No	18.0	-	21.5	492

**MPRXCX® FLEXISHIP® 331**

Reference	Nb. of cores	Cross section [mm <sup>2</sup> ]	Green/ Yellow core	Min. outer diam. [mm]	Nom. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	1	35	No	12.5	-	15.0	450
	1	50	No	15.0	-	17.0	650



Rated Voltage U<sub>0</sub>/U (U<sub>m</sub>)  
0.6/ 1 (1.2) kV



Fire resistant  
IEC 60331-1 or -2



Flame retardant  
IEC 60332-3 Cat. A



Gases corrosivity  
IEC 60754-2



Electro magnetic interference resistance  
Yes

Reference	Nb. of cores	Cross section [mm <sup>2</sup> ]	Green/ Yellow core	Min. outer diam. [mm]	Nom. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	1	70	No	17.0	-	19.5	860
	1	95	No	18.5	-	21.5	1090
	1	120	No	20.5	-	23.5	1350
	1	150	No	23.0	-	27.5	1655
	1	185	No	25.0	-	28.0	1984
	1	240	No	28.0	-	31.0	2593
10280562	2	4	No	12.7	13.7	14.7	219
10281409	2	6	No	13.7	14.7	15.7	268
10282086	2	10	No	16.1	17.3	18.5	416
	2	16	No	17.0	-	19.0	640
10282087	2	25	No	21.7	-	24.9	879
	2	35	No	25.0	-	28.0	1820
	2	50	No	29.5	-	33.0	2400
10280724	3	4	No	13.5	-	15.5	279
10240114	3	4	Yes	13.5	-	15.5	279
10234993	3	6	No	15.2	-	17.4	363
10284330	3	6	Yes	15.2	16.3	17.4	363
10283323	3	10	No	17.2	18.5	19.8	579
10270188	3	16	Yes	19.2	-	22.0	730
10283003	3	25	No	23.1	-	26.5	1148
10241545	3	35	No	26.0	-	30.5	1431
10283354	3	50	No	30.5	-	34.0	1996
10282453	3	70	No	33.5	-	36.5	2617
10215922	3	95	No	38.5	-	42.0	3395
10257233	3	120	No	43.5	-	49.0	4284
10282452	4	4	No	14.9	16.0	17.1	351
10282476	4	6	No	16.5	17.7	18.9	482
10280563	4	10	No	18.8	20.2	21.6	691
10284317	4	16	No	21.7	23.3	24.9	1011
10280764	4	25	No	25.4	-	29.2	1462
10284318	4	35	No	28.0	-	31.5	1835
10224219	4	50	No	33.5	-	38.5	2519
10224217	4	70	No	38.0	-	40.0	3437
10284319	4	95	No	43.1	-	49.5	4638
10282795	5	4	Yes	16.7	18.0	19.3	451



Rated Voltage U<sub>0</sub>/U (Um)  
0.6/ 1 (1.2) kV



Fire resistant  
IEC 60331-1 or -2



Flame retardant  
IEC 60332-3 Cat. A



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**

- MPRXCX® 331..... 6 x outer diameter
- MPRXCX® 331 FLEXISHIP®..... 5 x outer diameter