



### CONTACT

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### 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

### APPLICATION

MPRX®331 0.6/1 kV 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 not subject to mechanical risks.

The highly flexible MPRX®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 tape + XLPE (cross-linked polyethylene)

#### 3. Outer sheath

(Filler if necessary)  
Polyolefin SHF1  
Colour: orange

Example of marking:

LYNXEO 279 MPRX 331 or MPRX 331 FLEXISHIP 0.6/1 kV "n" x (orG) "s" 90°C IEC 60092-353 IEC 60332-3-22 Cat. A IEC 60331-1/21 "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



Halogen free  
IEC 60754-1



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



Fire resistant  
IEC 60331-1 or -2



Fire retardant  
EN IEC 60332-3-22  
(cat A)



Smoke density  
IEC 61034



Gases corrosivity  
IEC 60754-2



Max. conductor temp. in  
service  
90 °C

## CHARACTERISTICS

### Construction characteristics

Halogen free	IEC 60754-1
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### Electrical characteristics

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

Fire resistant	IEC 60331-1 or -2
Fire retardant	EN IEC 60332-3-22 (cat A)
Smoke density	IEC 61034
Gases corrosivity	IEC 60754-2
Max. conductor temperature in service	90 °C

## MPRX® 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]
10171706	2	1.5	No	10.0	10.7	11.5	97
10281202	2	2.5	No	10.6	11.3	12.2	117
10171708	3	1.5	No	10.6	11.3	12.2	127
10171707	3	1.5	Yes	10.6	11.4	12.2	127
10171710	4	1.5	No	11.6	-	13.3	158
10282800	4	1.5	Yes	11.6	12.4	13.3	158

## MPRX® 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]
10284390	1	35	No	12.5	13.4	14.4	400
	1	50	No	13.5	14.0	15.5	540
	1	70	No	15.5	16.1	17.5	740
10240115	1	95	No	17.6	18.9	20.3	967
10269961	1	120	No	19.7	21.2	22.6	1224
	1	150	No	21.5	22.4	24.5	1500
10269962	1	185	No	23.6	25.4	27.1	1820
	1	240	No	27.5	28.4	30.5	2410
10282799	2	4	No	11.6	12.4	13.3	156
10284307	2	6	No	13.2	14.1	15.1	210
10283957	2	10	No	14.9	16.0	17.1	353
10281369	2	16	No	16.6	17.9	19.2	421
	2	35	No	22.0	23.0	25.0	1140
	2	50	No	26.5	27.4	29.5	1600
10284310	3	4	No	12.6	13.6	14.5	215
10282921	3	4	Yes	12.6	-	14.5	215

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]
10284309	3	6	Yes	13.4	14.4	15.5	281
10284308	3	10	Yes	15.6	16.8	18.0	454
10283239	3	16	No	17.8	19.1	20.4	637
10283238	3	25	No	21.6	23.2	24.8	979
10265187	3	35	No	25.1	27.0	28.9	1329
10283237	3	50	No	27.9	30.0	32.1	1802
10253643	3	70	No	32.8	35.3	37.8	2597
10219022	3	95	No	36.5	39.2	41.9	3198
10235004	3	120	No	41.0	44.1	47.2	4041
10171163	4	6	No	14.8	-	17.0	359
10283955	4	10	No	17.9	-	20.7	607
10283956	4	10	Yes	17.9	19.3	20.7	607
	4	16	No	18.5	18.6	21.0	840
10284360	4	25	No	24.3	26.1	27.9	1199
10281622	4	25	Yes	24.3	-	27.9	1199
10235005	4	35	No	28.0	30.1	32.2	1724
10171161	4	50	No	31.1	33.4	35.7	2345
10235006	4	70	No	36.7	39.5	42.3	3283
10284311	5	6	Yes	17.7	19.0	20.3	498
10282797	5	10	Yes	19.4	20.8	22.3	713

## OTHER CHARACTERISTICS

### Test Voltage

AC between cores..... 3.5 kV AC

### Minimum bending radius for fixed installations

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