



CONTACT

Market information
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FIRE RESISTANT POWER CABLES

STANDARDS

Product IEC 60228

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

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



Halogen free
IEC 60754-1



Rated Voltage U₀/U
(Um)
0.6/ 1 (1.2) kV



Fire resistant
IEC 60331-1 or -2



Flame retardant
IEC 60332-3 Cat. A



Smoke density
IEC 61034



Gases corrosivity
IEC 60754-2



Electro magnetic
interference
resistance
Yes



Operating temp.
-30 ... 80 °C

CHARACTERISTICS

Construction characteristics

Halogen free	IEC 60754-1
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Electrical characteristics

Rated Voltage U ₀ /U (Um)	0.6/ 1 (1.2) kV
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Usage characteristics

Fire resistant	IEC 60331-1 or -2
Flame retardant	IEC 60332-3 Cat. A
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

MPRXCX® 331

Reference	Nb. of cores	Cross section [mm²]	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
10171731	3	1.5	No	10.5	-	13.0	153
10171737	3	2.5	No	11.5	-	14.0	201
10171732	5	1.5	No	12.0	-	14.0	233
10171733	7	1.5	No	14.0	-	16.5	308
10171734	12	1.5	No	18.0	-	21.5	492

MPRXCX® FLEXISHIP® 331

Reference	Nb. of cores	Cross section [mm²]	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
	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



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IEC 60331-1 or -2



Flame retardant
IEC 60332-3 Cat. A



Smoke density
IEC 61034



Gases corrosivity
IEC 60754-2



Electro magnetic
interference
resistance
Yes



Operating temp.
-30 ... 80 °C

Reference	Nb. of cores	Cross section [mm²]	Green/ Yellow core	Min. outer diam. [mm]	Nom. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	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
	2	35	No	25.0	-	28.0	1820
	2	50	No	29.5	-	33.0	2400
10284330	3	6	Yes	15.2	16.3	17.4	363
10283323	3	10	No	17.2	18.5	19.8	579
10280702	3	16	No	19.2	20.6	22.0	730
10241545	3	35	No	26.0	-	30.5	1431
10243660	3	50	No	30.5	-	34.0	1996
10241546	3	70	No	33.5	-	36.5	2617
10224218	3	95	No	38.5	-	42.0	3395
	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
	4	35	No	28.0	-	31.5	1835
	4	50	No	33.5	-	38.5	2519
	4	70	No	38.0	-	40.0	3437
10282795	5	4	Yes	16.7	18.0	19.3	451



Halogen free
IEC 60754-1



Rated Voltage U_0/U
(Um)
0.6/ 1 (1.2) kV



Fire resistant
IEC 60331-1 or -2



Flame retardant
IEC 60332-3 Cat. A



Smoke density
IEC 61034



Gases corrosivity
IEC 60754-2



Electro magnetic
interference
resistance
Yes



Operating temp.
-30 ... 80 °C