

MPRXCX® 331 / MPRXCX® 331 FLEXISHIP® 0.6/1 (1.2) kV

Contact

Nexans - Special cables - Marine
contact.fr@nexans.com

FIRE RESISTANT POWER CABLES

DESCRIPTION

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 90 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. The sectoral conductors of multicore cables provide further space and weight savings on the cable trays. 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)
Optional: Special fire resistant HF 90 (halogen-free compound) with INFIT TM technology up to 4 mm²
- 3. Inner covering**
(lapped)
- 4. Armouring**
Bare copper braid, separator tape (optional)
- 5. Outer sheath**
Polyolefin SHF 1 (SHF2 on request)
Colour: orange

Marking

I NEXANS I MPRXCX 331 or MPRXCX 331 FLEXISHIP 0.6/1 kV 3x1.5
90°C IEC 60092-353 IEC 60332-3-22 Cat. A IEC 60331-21/1 ww/yy *CE*+ metric marking



STANDARDS

International IEC 60331-1 or 2;
IEC 60092-350; IEC 60092-353;
IEC 60228; IEC 60331-2;
IEC 60331-21 ; IEC 60332-1;
IEC 60332-3-22; IEC 60754-1;
IEC 60754-2; IEC 61034



Halogen free
IEC 60754-1



Fire resistant
IEC 60331-21, IEC
60331-1 or 2



Flame retardant
IEC 60332-3 Cat. A



Smoke density
IEC 61034



Gases corrosivity
IEC 60754-2



Gases toxicity
No toxicity to IEC
60754-1



Electro magnetic
interference
resistance
Yes



Max. conductor
temp. in service
90 °C

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Core Identification

1 core: black
2 cores: 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

CHARACTERISTICS

Construction characteristics

Halogen free	IEC 60754-1
Sheath colour	Orange

Usage characteristics

Fire resistant	IEC 60331-21, IEC 60331-1 or 2
Flame retardant	IEC 60332-3 Cat. A
Smoke density	IEC 61034
Gases corrosivity	IEC 60754-2
Gases toxicity	No toxicity to IEC 60754-1
Electro magnetic interference resistance	Yes
Max. conductor temperature in service	90 °C

PRODUCT LIST

Nexans ref.	Country ref.	Nb. of cores	Cross section [mm²]	Min. outer diam. [mm]	Max. outer diam. [mm]	Conductor flexibility	Approx. weight [kg/km]
☎		1	35	12.5	15.0	Flexible class 5	450
☎		1	50	15.0	17.0	Flexible class 5	650
☎		1	70	17.0	19.5	Flexible class 5	860
☎		1	95	18.5	21.5	Flexible class 5	1090
☎		1	120	20.5	23.5	Flexible class 5	1350

☎ = Make to order, 📦 = In stock



Halogen free
IEC 60754-1



Fire resistant
IEC 60331-21, IEC
60331-1 or 2



Flame retardant
IEC 60332-3 Cat. A



Smoke density
IEC 61034



Gases corrosivity
IEC 60754-2



Gases toxicity
No toxicity to IEC
60754-1



Electro magnetic
interference
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Nexans ref.	Country ref.	Nb. of cores	Cross section [mm²]	Min. outer diam. [mm]	Max. outer diam. [mm]	Conductor flexibility	Approx. weight [kg/km]
☎		1	150	23.0	27.5	Flexible class 5	1655
☎		1	185	25.0	28.0	Flexible class 5	1984
☎		1	240	28.0	31.0	Flexible class 5	2593
☎ 10171729	01092767	2	1.5	10.0	12.5	Stranded class 2	130
☎ 10171736	01105024	2	2.5	10.5	12.5	Stranded class 2	162
☎		2	4	12.0	14.5	Stranded class 2	193
☎ 25493182		2	6	13.0	15.5	Stranded class 2	281
☎ 25493167		2	10	15.0	18.0	Stranded class 2	423
☎		2	16	17.0	19.0	Stranded class 2	640
☎		2	25	21.0	24.5	Stranded class 2	1130
☎		2	35	25.0	28.0	Flexible class 5	1820
☎		2	50	29.5	33.0	Flexible class 5	2400
☎ 10171731	01092768	3	1.5	10.5	13.0	Stranded class 2	153
☎ 10171737	01101210	3	2.5	11.5	14.0	Stranded class 2	201
☎ 25493138		3	4	12.5	15.0	Stranded class 2	254
☎ 10234993	01270403	3	6	13.5	17.0	Stranded class 2	363
☎ 25493142		3	10	16.5	19.0	Stranded class 2	519
☎ 25493144		3	16	18.5	22.0	Stranded class 2	707
☎ 25493146		3	25	23.0	25.5	Stranded class 2	1039
☎ 10241545		3	35	26.0	30.5	Flexible class 5	1431
☎ 10243660		3	50	30.5	34.0	Flexible class 5	1996
☎ 10241546		3	70	33.5	36.5	Flexible class 5	2617
☎ 10224218		3	95	38.5	42.0	Flexible class 5	3395
☎		3	120	43.5	49.0	Flexible class 5	4284
☎ 25493127		4	1.5	11.5	14.0	Stranded class 2	189
☎ 25493133		4	2.5	12.5	15.0	Stranded class 2	238
☎ 25493139		4	4	13.5	15.5	Stranded class 2	350
☎ 25493141		4	6	15.5	18.0	Stranded class 2	446
☎ 25493143		4	10	18.0	20.5	Stranded class 2	642
☎ 25493145		4	16	20.5	23.0	Stranded class 2	894
☎ 25493162		4	25	26.0	29.5	Stranded class 2	1770
☎		4	35	28.0	31.5	Flexible class 5	1835
☎		4	50	33.5	38.5	Flexible class 5	2519

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Halogen free
IEC 60754-1



Fire resistant
IEC 60331-21, IEC
60331-1 or 2



Flame retardant
IEC 60332-3 Cat. A



Smoke density
IEC 61034



Gases corrosivity
IEC 60754-2



Gases toxicity
No toxicity to IEC
60754-1



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		4	70	38.0	40.0	Flexible class 5	3437
 10171732	01270406	5	1.5	12.0	14.0	Stranded class 2	233
 10171733	01101501	7	1.5	14.0	16.5	Stranded class 2	308
 10171734	01270407	12	1.5	18.0	21.5	Stranded class 2	492

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Fire resistant
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60331-1 or 2



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