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International Designation: MPRX FLEXISHIP 331 0.6/1kV 1x240

FIRE RESISTANT POWER CABLES

STANDARDS

Produkt IEC 60228

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

Tests 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



Halogenfrei
 IEC 60754-1



Leiterflexibilität
 Stranded class 5



Nennspannung U_o/U
 0.6/1 (1.2) kV



Feuerbeständig
 IEC 60331-1 or -2



Flammwidrig
 EN IEC 60332-3-22
 (cat A)



Rauchdichte
 IEC 61034



Korrosivität der
 (Brand-)Gase
 niedrig, gem. IEC
 60754-2



Betriebstemp.
 -30 ... 80 °C

CHARACTERISTICS

Konstruktionsmerkmale

Halogenfrei	IEC 60754-1
Leitermaterial	Kupfer, blank
Mantelfarbe	Orange
Isolierung	XLPE + Mica tape
Füllmaterial / Innenmantelmaterial	Filler if necessary
Außenmantel	Polyolefin
Leiterflexibilität	Stranded class 5
Mit grün-gelber Ader	Nein

Abmessungsmerkmale

Aderanzahl	1
Leiterquerschnitt	240 mm ²
Außendurchmesser Mindestwert	27,5 mm
Maximaler Außendurchmesser	30,5 mm
Nettogewicht ca.	2410 kg/km
Außendurchmesser, nom.	28,4 mm

Elektrische Eigenschaften

Nennspannung U ₀ /U	0.6/ 1 (1.2) kV
Kurzschlussstrom	34,3 kA
Zulässige Belastbarkeit in Luft	522 A
Max. Gleichstromwiderstand des Leiters bei 20° C	0,0801 Ohm/km

Anwendungsmerkmale

Feuerbeständig	IEC 60331-1 or -2
Flammwidrig	EN IEC 60332-3-22 (cat A)
Rauchdichte	IEC 61034
Korrosivität der (Brand-)Gase	niedrig, gem. IEC 60754-2
Betriebstemperatur	-30 ... 80 °C
Max. Betriebstemperatur am Leiter	90 °C

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