



Reference: 10282086

CONTACT

Market information
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Halogenfreie, feuerbeständige Energiekabel mit Schirm (Bewehrung) 0,6/1 kV

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

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



Halogenfrei
IEC 60754-1



Leiterflexibilität
KL.5 = feindrähtig



Nennspannung U_o/
U
0.6/ 1 (1.2) kV



Feuerbeständig
IEC 60331-1 or -2



Flammwidrig
IEC 60332-3 Cat. A



Rauchdichte
IEC 61034



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



Elektromagnetisch
geschirmt
Ja

CHARACTERISTICS

Konstruktionsmerkmale

| | |
|----------------------|------------------------|
| Halogenfrei | IEC 60754-1 |
| Leiterflexibilität | KL.5 = feindrätig |
| Leitermaterial | Kupfer, blank |
| Isolierung | XLPE + Mica tape |
| Schutz | Filler (optional) |
| Außenmantel | Polyolefin |
| Armierung | blankes Kupfergeflecht |
| Mantelfarbe | Orange |
| Mit grün-gelber Ader | Nein |

Abmessungsmerkmale

| | |
|------------------------------|--------------------|
| Aderanzahl | 2 |
| Leiterquerschnitt | 10 mm ² |
| Außendurchmesser Mindestwert | 16,1 mm |
| Außendurchmesser, nom. | 17,3 mm |
| Maximaler Außendurchmesser | 18,5 mm |
| Nettogewicht ca. | 416 kg/km |

Elektrische Eigenschaften

| | |
|---------------------------------|-----------------|
| Zulässige Belastbarkeit in Luft | 61 A |
| Nennspannung U ₀ /U | 0.6/ 1 (1.2) kV |
| Prüfspannung | 3500 V |

Anwendungsmerkmale

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



Halogenfrei
IEC 60754-1



Leiterflexibilität
KL.5 = feindrätig



Nennspannung U₀/U
0.6/ 1 (1.2) kV



Feuerbeständig
IEC 60331-1 or -2



Flammwidrig
IEC 60332-3 Cat. A



Rauchdichte
IEC 61034



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



Elektromagnetisch
geschirmt
Ja

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