



Reference: 10280640
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CONTACT

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International Designation: TCX® (C) 331 150/250V 4P1.5

INSTRUMENTATION CABLES

STANDARDS

Produkt IEC 60228

Installation IEC 60092-350; IEC 60092-360; IEC 60092-376

Tests a; IEC 60331-1 or 2; IEC 60332-1; IEC 60332-3-22; IEC 60754-1; IEC 61034

APPLICATION

TCX® (C) 331 150/250 V fire resistant armoured twisted pair cables maintain circuit integrity in case of fire by meeting performances requirements from the IEC 60331 series for 180 minutes. These telecommunication and instrumentation cables show a low transfer impedance in low frequency and an effective screening in high frequency, making them very suitable for polluted electromagnetic surroundings. TCX(C) 331 cables are used for detection and warning systems where enhanced mechanical protection 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
- 2. Insulation**
Mica tape + XLPE (cross-linked polyethylene)
- 3. Inner covering**
Lapped polyester tape
- 4. Armouring**
Bare copper braid
- 5. Outer sheath**
Polyolefin SHF1
Colour: orange

Example of marking:

LYNXEO 279 TCX (C) 331 150/250 V "n" 2 or 3 "s" mm² 90°C IEC 60092-376 IEC 60332-3-22 Cat. A IEC 60331-1/2 "ww/yy" * CE * TCF + metric marking

Core Identification

Pair: white / blue with printed with pair number

Triad: white / blue / red with printed with triad number



Halogenfrei
IEC 60754-1



Leiterflexibilität
KL.2=mehrdrähtig



Nennspannung U_o/
U
150 / 250 (300) V



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



Elektromagnetisch
geschirmt
Ja

CHARACTERISTICS**Konstruktionsmerkmale**

Halogenfrei	IEC 60754-1
Leiterflexibilität	KL.2=mehrdrätig
Isolierung	XLPE + Mica tape
Außenmantel	Polyolefin
Leitermaterial	Kupfer, blank
Mantelfarbe	Orange
Armierung	blankes Kupfergeflecht
Beidraht	Kupfer, verzinkt
Schutz	Polyester tape(s)

Abmessungsmerkmale

Anzahl Paare	4
Anzahl der Dreier	-
Leiterquerschnitt	1,5 mm ²
Außendurchmesser, nom.	18,3 mm
Außendurchmesser Mindestwert	17,0 mm
Maximaler Außendurchmesser	19,6 mm
Nettogewicht ca.	387 kg/km

Elektrische Eigenschaften

Nennspannung U ₀ /U	150 / 250 (300) V
Max. Gleichstromwiderstand des Leiters bei 20° C	25,6 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
Elektromagnetisch geschirmt	Ja
Betriebstemperatur	-30 ... 80 °C
Max. Betriebstemperatur am Leiter	90 °C

OTHER CHARACTERISTICS**Test Voltage**

AC between cores of the same unit..... 1.5 kV AC

Minimum bending radius for fixed installations

• TCX® 331..... 6 x outer diameter