



Reference: 10280640
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CONTACT

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

INSTRUMENTATION CABLES

STANDARDS

Product IEC 60228

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

Test 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



Senza alogeno
IEC 60754-1



Flessibilità del conduttore
A trefoli classe 2



Tensione nominale
U_o/U (Um)
150 / 250 (300) V



Resistenza al fuoco
IEC 60331-1 or -2



Fuoco ritardante
EN IEC 60332-3-22
(cat A)



Densità fumo
IEC 61034



Fumo
IEC 60754-2



Resistenza ad interferenza elettromagnetica
SI

CHARACTERISTICS**Caratteristiche costruttive**

| | |
|-----------------------------|-----------------------|
| Senza alogeno | IEC 60754-1 |
| Flessibilità del conduttore | A trefoli classe 2 |
| Isolamento | XLPE + nastro di mica |
| Guaina esterna | Poliolefina |
| Materiale del conduttore | Rame nudo |
| Colore della guaina esterna | Arancio |
| Drain wire | Rame stagnato |
| Protezione | Polyester tape(s) |
| Tipo di armatura | Treccia in rame nudo |

Caratteristiche dimensionali

| | |
|------------------------------------|---------------------|
| Numero di coppie | 4 |
| Numero di terne | - |
| Sezione del conduttore del cavo | 1,5 mm ² |
| Diametro esterno nominale del cavo | 18,3 mm |
| Diametro esterno min | 17,0 mm |
| Diametro esterno max | 19,6 mm |
| Peso approssimativo del cavo | 387 kg/km |

Caratteristiche elettriche

| | |
|---|-------------------|
| Tensione nominale U _o /U (U _m) | 150 / 250 (300) V |
| Massima resistenza el. del cond. a 20°C in c.c. | 25,6 Ohm/km |

Caratteristiche d'utilizzo

| | |
|--|---------------------------|
| Resistenza al fuoco | IEC 60331-1 or -2 |
| Fuoco ritardante | EN IEC 60332-3-22 (cat A) |
| Densita' fumo | IEC 61034 |
| Fumo | IEC 60754-2 |
| Resistenza ad interferenza elettromagnetica | Si |
| Temperatura Operativa | -30 ... 80 °C |
| Temperatura massima di servizio del conduttore | 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