



CONTACT

Market information
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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® (I) 331 150/250 V fire resistant armoured individually screened 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 provide strong protection against cross-talk in both low and high frequency runs, making them suitable for highly polluted electromagnetic surroundings. TCX®(I) 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. Individual screen**
Alu/polyester tape with a tinned copper drain wire
- 4. Inner covering**
Lapped polyester tape
- 5. Armouring**
Bare copper braid
- 6. Outer sheath**
Polyolefin SHF1
Colour: orange

Example of marking:

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

Core Identification

Pair: white / blue with printed with pair number

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



Halogen free
IEC 60754-1



Rated Voltage U_o/U
(Um)
150 / 250 (300) V



Fire resistant
IEC 60331-1 or -2



Fire retardant
EN IEC 60332-3-22
(cat A)



Smoke density
IEC 61034



Gases corrosivity
IEC 60754-2



Electro magnetic
interference
resistance
Yes



Operating temp.
-30 ... 80 °C

CHARACTERISTICS**Construction characteristics**

Halogen free IEC 60754-1

Dimensional characteristics

Number of triples -

Electrical characteristicsRated Voltage U_o/U (Um) 150 / 250 (300) V**Usage characteristics**

Fire resistant IEC 60331-1 or -2

Fire retardant EN IEC 60332-3-22 (cat A)

Smoke density IEC 61034

Gases corrosivity IEC 60754-2

Electro magnetic interference resistance Yes

Operating temperature, range -30 ... 80 °C

Max. conductor temperature in service 90 °C

PRODUCTS LIST

Reference	Cross section [mm ²]	nb pairs	nb triples	Min. outer diam. [mm]	Nom. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10280539	0.75	2	-	12.6	13.6	14.6	180
10199548	0.75	14	-	23.8	25.6	27.4	798
10280538	1.5	2	-	15.2	16.3	17.4	292

OTHER CHARACTERISTICS**Test Voltage**

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

Minimum bending radius for fixed installations

• TCX® (I) 331..... 6 x outer diameter