



CONTACT

Market information
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International Designation: TX[®] (I) 331 150/250V 7P1.5

INSTRUMENTATION, CONTROL AND COMMUNICATION 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

TX[®] (I) 331 150/250 V fire resistant overall and 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 show a strong protection against cross-talk and result into a good compromise between TX[®] (C) 331 and TCX[®] (C) 331 cables against external electromagnetic disturbances. 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. Outer sheath

Polyolefin SHF1
 Colour: orange

Example of marking:

LYNXEO 279 TX (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 + 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



Conductor flexibility
 Stranded class 2



Rated Voltage U₀/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

CHARACTERISTICS**Construction characteristics**

Halogen free	IEC 60754-1
Conductor material	Bare copper
Conductor flexibility	Stranded class 2
Insulation	XLPE + Mica tape
Screen	Aluminium-Polyester tape
Drain wire	Tinned copper
Outer sheath	Polyolefin
Sheath colour	Orange

Dimensional characteristics

Number of pairs	7
Number of triples	-
Conductor cross-section	1.5 mm ²
Minimum outer diameter	17.5 mm
Nominal outer diameter	- mm
Maximum outer diameter	20.0 mm
Approximate weight	500 kg/km

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	150 / 250 (300) V
Max. DC resistance of the conductor at 20°C	25.6 Ohm/km

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

OTHER CHARACTERISTICS**Test Voltage**

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

Minimum bending radius for fixed installations

• TX® (I) 331..... 6 x outer diameter