



### CONTACT

Market information  
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**International Designation:** TX<sup>®</sup> (I) 331 150/250V 19P0.75

### 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<sup>®</sup> (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<sup>®</sup> (C) 331 and TCX<sup>®</sup> (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" mm<sup>2</sup> 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 U<sub>o</sub>/U<sub>i</sub>  
(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	19
Number of triples	-
Conductor cross-section	0.75 mm <sup>2</sup>
Minimum outer diameter	22.5 mm
Nominal outer diameter	- mm
Maximum outer diameter	27.0 mm
Approximate weight	830 kg/km

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	150 / 250 (300) V
Max. DC resistance of the conductor at 20°C	52 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