



### CONTACT

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### INSTRUMENTATION, CONTROL AND COMMUNICATION cables

### STANDARDS

**Product** IEC 60228

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

**Test a;** IEC 60332-1; IEC 60332-3-22; IEC 60754-1; IEC 61034

### APPLICATION

TX® (C) 150/250 V overall screened twisted pair cables are used for telecommunication and instrumentation purposes. These cables provide a medium protection 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

XLPE (cross-linked polyethylene)

#### 3. Collective screen

Alu/polyester tape with a tinned copper drain wire

#### 4. Outer sheath

Polyolefin SHF1

Colour : grey

#### Example of marking

LYNXEO 279 TX(C) Nbr of pairs/triads & cross-section 150/250V 90C IEC 60092-376 IEC 60332-3-22 Cat. A WW YYYY \*CE\* Manufacturing n°+ metric marking

#### Core Identification

Pair: white / blue with printed with pair number

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



Conductor flexibility  
**Stranded class 2**



Halogen free  
**IEC 60754-1**



Rated Voltage U<sub>o</sub>/U<sub>m</sub>  
**150 / 250 (300) V**



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



Flame retardant  
**IEC 60332-1**



Smoke density  
**IEC 61034**



Gases corrosivity  
**IEC 60754-2**



Electro magnetic interference resistance  
**Yes**

### CHARACTERISTICS

#### Construction characteristics

Conductor material	Bare copper
Conductor flexibility	Stranded class 2
Insulation	XLPE (Cross-linked Polyethylene)
Overall screen	Aluminium/polyester tape
Drain wire	Tinned copper
Outer sheath	Polyolefin
Sheath colour	Grey
Halogen free	IEC 60754-1

#### Dimensional characteristics

Number of pairs	37
Number of triples	-
Conductor cross-section	0.75 mm <sup>2</sup>
Nominal outer diameter	26.8 mm
Minimum outer diameter	25.5 mm
Maximum outer diameter	29.0 mm
Approximate weight	900 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 retardant	EN IEC 60332-3-22 (cat A)
Flame retardant	IEC 60332-1
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

#### Minimum bending radius for fixed installations

- cable diameter ≤ 25 mm..... 4 x outer diameter
- cable diameter > 25 mm..... 6 x outer diameter