



**Reference:** 10167503  
**EAN 13:** 3427650093430

#### CONTACT

Market information  
 industryprojects.business@lynxgroup.com

**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<sup>®</sup> (I) 150/250 V overall and individually screened twisted pair cables are used for telecommunication and instrumentation purposes. These cables show strong protection against cross-talk and result into a good compromise between TX<sup>®</sup>(C) and TCX<sup>®</sup>(C) 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**  
XLPE (Cross-linked polyethylene)
- 3. Individual screen**  
Alu/polyester tape with a tinned copper drain wire
- 4. Outer sheath**  
Polyolefin SHF1  
Colour : grey

Example of marking:

LYNXEO 279 TX(I) 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 pair number

Triad: white / blue / red with printed triad number



Conductor flexibility  
Stranded class 2



Halogen free  
IEC 60754-1



Rated Voltage U<sub>o</sub>/U<sub>m</sub>  
(Um)  
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 flexibility	Stranded class 2
Halogen free	IEC 60754-1
Conductor material	Bare copper
Insulation	XLPE (Cross-linked Polyethylene)
Individual screen	Aluminium / Polyester tape
Drain wire	Tinned copper
Outer sheath	Polyolefin
Sheath colour	Grey

### Dimensional characteristics

Nominal outer diameter	16.2 mm
Number of pairs	-
Number of triples	7
Conductor cross-section	0.75 mm <sup>2</sup>
Minimum outer diameter	15.1 mm
Maximum outer diameter	17.3 mm
Approximate weight	334 kg/km

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (Um)	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