



CONTACT

Market information
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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_o/U_m
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	4
Number of triples	-
Conductor cross-section	1.5 mm ²
Nominal outer diameter	13.4 mm
Minimum outer diameter	12.5 mm
Maximum outer diameter	15.0 mm
Approximate weight	230 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 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