



Reference: 10167510
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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 U₀/U
(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 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 | 24 |
| Number of triples | - |
| Conductor cross-section | 0.75 mm ² |
| Nominal outer diameter | 23.9 mm |
| Minimum outer diameter | 22.2 mm |
| Maximum outer diameter | 25.6 mm |
| Approximate weight | 599 kg/km |

Electrical characteristics

| | |
|---|-------------------|
| Rated Voltage U ₀ /U (U _m) | 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