



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

TCX[®] (C) 150/250 V armoured twisted pair cables are used for telecommunication and instrumentation purposes. These cables show a low transfer impedance in low frequency and an effective screening in high frequency, making them very suitable for polluted electromagnetic surroundings. TCX[®] (C) cables are also selected where enhanced mechanical protection is required. 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. Assembling**
Polyester tape
- 4. Armour**
Bare copper braid
- 5. Outer sheath**
Polyolefin SHF1
Colour : grey

Example of marking:

LYNXEO 279 TCX (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 pair number

Triad: white / blue / red with printed triad number



Halogen free
IEC 60754-1



Rated Voltage U_o/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



Operating temp.
-30 ... 80 °C

CHARACTERISTICS

Construction characteristics

| | |
|--------------|-------------|
| Halogen free | IEC 60754-1 |
|--------------|-------------|

Electrical characteristics

| | |
|--------------------------------------|-------------------|
| Rated Voltage U _o /U (Um) | 150 / 250 (300) V |
|--------------------------------------|-------------------|

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 |

PRODUCTS LIST

| Reference | Cross section [mm ²] | nb pairs | nb triples | Min. outer diam. [mm] | Nom. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] |
|-----------|----------------------------------|----------|------------|-----------------------|-----------------------|-----------------------|------------------------|
| 10170056 | 0.75 | - | 1 | 7.1 | 7.6 | 8.1 | 78 |
| | 0.75 | - | 2 | 11.0 | 11.1 | 13.0 | 150 |
| | 0.75 | - | 4 | 12.8 | 12.5 | 14.5 | 225 |
| 10170057 | 0.75 | 1 | - | 6.9 | 7.4 | 8.0 | 72 |
| 10170060 | 0.75 | 2 | - | 7.6 | 8.2 | 8.8 | 97 |
| 10170063 | 0.75 | 4 | - | 12.0 | 12.8 | 13.8 | 186 |
| 10281445 | 0.75 | 7 | - | 14.0 | 15.1 | 16.2 | 237 |
| 10281446 | 0.75 | 10 | - | 16.9 | 18.1 | 19.5 | 385 |
| 10170101 | 0.75 | 14 | - | 18.8 | 20.2 | 21.6 | 505 |
| 10170103 | 0.75 | 19 | - | 21.3 | 22.9 | 24.5 | 641 |
| 10170124 | 0.75 | 24 | - | 23.5 | 25.3 | 27.1 | 757 |
| | 0.75 | 30 | - | 25.5 | 27.6 | 28.5 | 904 |
| 10170125 | 1.5 | 1 | - | 8.0 | 8.64 | 9.2 | 97 |
| 10170126 | 1.5 | 2 | - | 9.4 | 9.9 | 11.0 | 149 |
| 10170128 | 1.5 | 4 | - | 14.2 | 15.3 | 16.4 | 323 |
| 10281141 | 1.5 | 7 | - | 17.0 | 18.3 | 19.6 | 474 |
| 10284268 | 1.5 | 10 | - | 19.8 | 21.3 | 22.8 | 637 |
| 10210836 | 1.5 | 14 | - | 22.0 | 23.7 | 25.4 | 835 |

OTHER CHARACTERISTICS

Test Voltage

Between cores of the same unit..... 1,5 kV AC

Minimum bending radius for fixed installations..... 6 x outer diameter