



Reference: 10170101
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CONTACT

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INSTRUMENTATION, CONTROL and COMMUNICATION cables

STANDARDS

Product IEC 60092-375

Installation IEC 60092-3

Test a; IEC 60332-3 Cat.A; IEC 60754-1; IEC 61034

International IEC 60298

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



Conductor flexibility
 Stranded class 2



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**

Halogen free	IEC 60754-1
Conductor material	Bare copper
Conductor flexibility	Stranded class 2
Insulation	XLPE (Cross-linked Polyethylene)
Inner covering	Polyester tape(s)
Armour type	Bare copper braid
Outer sheath	Polyolefin
Sheath colour	Grey

Dimensional characteristics

Number of pairs	14
Number of triples	-
Conductor cross-section	0.75 mm ²
Nominal outer diameter	20.2 mm
Minimum outer diameter	18.8 mm
Maximum outer diameter	21.6 mm
Approximate weight	505 kg/km

Electrical characteristics

Max. DC resistance of the conductor at 20°C	52 Ohm/km
Rated Voltage U ₀ /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

OTHER CHARACTERISTICS**Test Voltage**

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

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