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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[®] (I) 150/250 V armoured individually screened twisted pair cables are used for telecommunication and instrumentation purposes. These cables provide strong protection against cross-talk in both low and high frequency runs, making them suitable for highly polluted electromagnetic surroundings. TCX[®](I) 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. Individual screen**
Alu/polyester tape with a tinned copper drain wire
- 4. Assembling**
Polyester tape
- 5. Armour**
Bare copper braid
- 6. Outer sheath**
Polyolefin SHF1
Colour : grey

Example of marking:

LYNXEO 279 TCX (I) Nber 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 Uo/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)
Individual screen	Tinned copper drain wire + aluminium/polyester tape
Inner covering	Polyester tape(s)
Armour type	Bare copper braid
Outer sheath	Polyolefin
Sheath colour	Grey
Drain wire	-
Number of conductors	-

Dimensional characteristics

Number of pairs	-
Number of triples	2
Conductor cross-section	0.75 mm ²
Nominal outer diameter	12.3 mm
Minimum outer diameter	12.0 mm
Maximum outer diameter	14.0 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	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**

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

Minimum bending radius for fixed installations TCX® (I)..... 6 x outer diameter