



CONTACT

Market information
industryprojects.business@lynxgroup.com

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



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 characteristicsRated Voltage U_o/U (U_m) 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

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]
	0.75	-	2	12.0	12.3	14.0	230
	0.75	-	4	13.0	14.1	15.0	290
10170061	0.75	2	-	10.1	10.9	11.7	153
10170094	0.75	4	-	11.8	12.7	13.6	216
10170097	0.75	7	-	14.3	15.4	16.5	353
10170099	0.75	10	-	16.8	18.1	19.4	473
10170102	0.75	14	-	18.7	20.1	21.5	610
10183965	0.75	19	-	20.8	22.4	24.0	768
10259830	0.75	24	-	23.1	24.8	26.5	926
10170127	1.5	2	-	12.2	13.2	14.1	222
10251178	1.5	4	-	14.8	15.9	17.0	356
10196872	1.5	7	-	17.7	19.0	20.3	543
10282430	1.5	10	-	20.6	22.2	23.8	729

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