



### CONTACT

Market information  
[industryprojects.business@lynxgroup.com](mailto: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<sup>®</sup> (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<sup>®</sup> (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<sub>o</sub>/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 <sub>o</sub> /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 <sup>2</sup> ]	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