



### 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 60331-1 or 2; IEC 60332-1; IEC 60332-3-22; IEC 60754-1; IEC 61034

### APPLICATION

TX® (I) 331 150/250 V fire resistant overall and individually screened twisted pair cables maintain circuit integrity in case of fire by meeting performances requirements from the IEC 60331 series for 180 minutes. These telecommunication and instrumentation cables show a strong protection against cross-talk and result into a good compromise between TX® (C) 331 and TCX® (C) 331 cables against external electromagnetic disturbances. 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**  
Mica tape + XLPE (cross-linked polyethylene)
- 3. Individual screen**  
Alu/polyester tape with a tinned copper drain wire
- 4. Outer sheath**  
Polyolefin SHF1  
Colour: orange

Example of marking:

LYNXEO 279 TX (I) 331 150/250 V "n x 2 or 3 x s" mm<sup>2</sup> 90 °C - IEC 60092-376 IEC 60332-3-22 Cat. A IEC 60331-1/2 ww/yy - CE + metric marking

Core Identification

Pair: white / blue with printed with pair number

Triad: white / blue / red with printed with triad number



Halogen free  
IEC 60754-1



Rated Voltage U<sub>o</sub>/U<sub>m</sub>  
(Um)  
150 / 250 (300) V



Fire resistant  
IEC 60331-1 or -2



Fire retardant  
EN IEC 60332-3-22  
(cat A)



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 (U<sub>m</sub>) 150 / 250 (300) V**Usage characteristics**

Fire resistant IEC 60331-1 or -2

Fire retardant EN IEC 60332-3-22 (cat A)

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]
	0.75	-	1	7.0	-	8.6	80
	0.75	-	2	12.0	-	14.5	210
	0.75	-	4	13.0	-	16.0	270
10171346	0.75	2	-	11.5	12.4	13.3	121
10282801	0.75	4	-	13.8	14.8	15.8	206
	0.75	7	-	14.5	-	17.5	340
	0.75	10	-	17.0	-	21.0	470
10171351	0.75	14	-	22.2	23.9	25.6	618
	0.75	19	-	22.5	-	27.0	830
	0.75	24	-	25.0	-	30.0	1060
	1.5	4	-	14.5	-	16.5	310
	1.5	7	-	17.5	-	20.0	500
	1.5	14	-	24.0	-	27.0	950
	1.5	19	-	28.0	-	31.0	1260

**OTHER CHARACTERISTICS****Test Voltage**

AC between cores of the same unit..... 1.5 kV AC

**Minimum bending radius for fixed installations**

• TX® (I) 331..... 6 x outer diameter