



CONTACT

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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 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:

LYNCEO 279 TX (I) 331 150/250 V "n x 2 or 3 x s" mm² 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 U₀/U
(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
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Electrical characteristics

Rated Voltage U ₀ /U (U _m)	150 / 250 (300) V
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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 ²]	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