



Reference: 10199548  
EAN 13: 3427650115002

### CONTACT

Market information  
industryprojects.business@lynxéogroup.com

International Designation: TCX® ( I ) 331 14P0.75

### INSTRUMENTATION 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

TCX® (I) 331 150/250 V fire resistant armoured 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 provide strong protection against cross-talk in both low and high frequency runs, making them suitable for highly polluted electromagnetic surroundings. TCX®(I) 331 cables are used for detection and warning systems 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  
Mica tape + XLPE (cross-linked polyethylene)
3. Individual screen  
Alu/polyester tape with a tinned copper drain wire
4. Inner covering  
Lapped polyester tape
5. Armouring  
Bare copper braid
6. Outer sheath  
Polyolefin SHF1  
Colour: orange

### Example of marking:

LYNXEO 279 TCX (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 \* TCIF + metric marking

### Core Identification

Pair: white / blue with printed with pair number

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



无卤  
IEC 60754-1



导线柔软度  
绞和等级2



额定电压U<sub>o</sub>/U  
150 / 250 (300) V



耐火  
IEC 60331-1 or -2



阻燃  
EN IEC 60332-3-22  
(cat A)



烟密度  
IEC 61034



气体腐蚀性  
低 IEC 60754-2



抗电磁干扰  
是

## CHARACTERISTICS

## 结构特性

导体材料	裸铜线
无卤	IEC 60754-1
护套颜色	橙
绝缘	交联聚乙烯+云母带
屏蔽	Bare copper braid
外护套	聚烯烃
导线柔软度	绞和等级2
加蔽线	裸铜
防护	聚酯带

## 尺寸特性

线对数	14
三线组数	-
导线截面	0.75 mm <sup>2</sup>
标称外径	25.6 mm
外径最小值	23.8 mm
Maximum outer diameter	27.4 mm
近似重量	798 kg/km

## 电气特性

额定电压U <sub>0</sub> /U	150 / 250 (300) V
20° C时导体的最大直流电阻	52 Ohm/km

## 使用特性

耐火	IEC 60331-1 or -2
阻燃	EN IEC 60332-3-22 (cat A)
烟密度	IEC 61034
气体腐蚀性	低 IEC 60754-2
抗电磁干扰	是
操作温度范围	-30 ... 80 ° C
芯线最高静止温度	90 ° C

## OTHER CHARACTERISTICS

## Test Voltage

AC between cores of the same

unit..... 1.5 kV AC

## Minimum bending radius for fixed installations

• TCX® (I)

331..... 6 x  
outer diameter