

# TCX® (C) 150/250(300) V

## Contact

Nexans - Special cables - Marine  
contact.fr@nexans.com

## INSTRUMENTATION, CONTROL and COMMUNICATION cables

### DESCRIPTION

#### Application

TCX® (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® (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

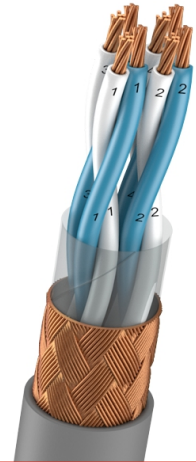
1. **Conductor**  
Stranded bare copper class 2
2. **Insulation**  
XLPE (cross-linked polyethylene)
3. **Assembling**  
Polyester tape
4. **Armour**  
Bare copper braid
5. **Outer sheath**  
Polyolefin SHF1 (SHF2 on request)  
Colour : grey

#### Marking

NEXANS 279 TCX (C) 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



### STANDARDS

**International** IEC 60092-350;  
IEC 60092-360; IEC 60092-376;  
IEC 60298; IEC 60332-1;  
IEC 60332-3-22; IEC 60754-1;  
IEC 60754-2; IEC 61034



Halogen free  
IEC 60754-1



Fire retardant  
IEC 60332-3-22



Flame retardant  
IEC 60332-1



Gases toxicity  
No



Gases corrosivity  
IEC 60754-2



Smoke density  
IEC 61034



Electro magnetic  
interference  
resistance  
Yes



Operating temp.  
-30 .. 80 °C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

## CHARACTERISTICS












### Construction characteristics

Halogen free	IEC 60754-1
Conductor material	Bare copper
Insulation	XLPE (Cross-linked Polyethylene)
Inner covering	Polyester tape(s)
Armour type	Bare copper braid
Outer sheath	Polyolefin
Sheath colour	Grey

### Usage characteristics

Fire retardant	IEC 60332-3-22
Flame retardant	IEC 60332-1
Gases toxicity	No
Gases corrosivity	IEC 60754-2
Smoke density	IEC 61034
Electro magnetic interference resistance	Yes
Operating temperature, range	-30 .. 80 °C
Standard	IEC

## PRODUCT LIST

Nexans ref.	Country ref.	Name	nb pairs	nb triples	Cross section [mm <sup>2</sup> ]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
 10170057	01101292	TCX (C) 150/250V 1P0.75	1		0.75	7.0	8.2	72
 10170060	01101285	TCX (C) 150/250V 2P0.75	2		0.75	7.8	9.2	101
 10170063	01101286	TCX (C) 150/250V 4P0.75	4		0.75	11.0	13.0	189
 10170096	01101287	TCX (C) 150/250V 7P0.75	7		0.75	14.0	15.5	237
 10170100	01101288	TCX (C) 150/250V 10P0.75	10		0.75	16.5	19.0	398
 10170101	01101289	TCX (C) 150/250V 14P0.75	14		0.75	18.5	21.0	505
 10170103	01101290	TCX (C) 150/250V 19P0.75	19		0.75	21.0	23.5	641
 10170124	01101291	TCX (C) 150/250V 24P0.75	24		0.75	24.0	27.0	757
 10170056		TCX (C) 150/250V 1T0.75		1	0.75	7.2	8.4	78
		TCX (C) 150/250V 2T0.75		2	0.75	11.0	13.0	150
 10094219		TCX (C) 150/250V 4T0.75		4	0.75	12.8	14.5	225



 = Make to order,  = In stock



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Nexans ref.	Country ref.	Name	nb pairs	nb triples	Cross section [mm <sup>2</sup> ]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
 10170125		TCX (C) 150/250V 1P1.5	1		1.5	8.2	9.6	97
 10170126		TCX (C) 150/250V 2P1.5	2		1.5	9.4	11.0	157

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