

TCX[®] (C) 150/250 (300) V

APPLICATION

TCX[®] (C) type is used on board of ships in all locations for installations complying with IEC standards 60092-352. For open decks installation, cables have to be covered against UV rays. TCX[®] (C) type withstands IEC 60332-3-22 fire test on bunched cables and performs to the SOLAS requirements. All materials used to produce this cable are halogen free. This design ensures that non corrosive and low toxic gases are emitted in case of fire.

Max conductor temperature: 90°C

DESIGN

1. Conductor

Stranded bare copper class 2

2. Insulation

XLPE

3. Inner covering

Polyester tape or polyolefin

4. Armouring

Bare copper braid with bare copper drain wire

5. Outer sheath

Polyolefin SHF1

Colour: orange

MARKING

NEXANS 448 TCX (C) 150/250V «n» x 2 «or» 3 x «s» mm² 90°C IEC 60332-3-22 «WW/YY» *CE * + Metric Marking

Note: We use a quad to substitute a 2-pair.



Fire retardant
IEC 60332-3-22



Flame retardant
IEC 60332-1



Halogen-free
IEC 60754-1
IEC 60684-2



Low smoke
IEC 61034



No toxicity



No corrosivity
IEC 60754-2



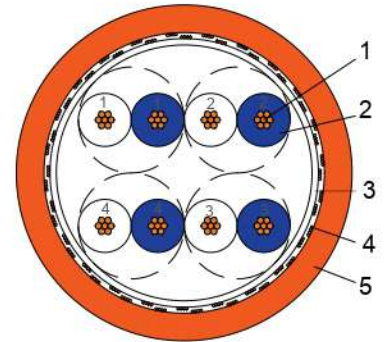
-30 +80°C



EMI

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.

page 32 / 101



Note: Cable drawing is only for reference.

CORE IDENTIFICATION

1P&1T

Core 1: white

Core 2: blue

Core 3: red

2P&2T AND ABOVE

Core 1: white + printed number

Core 2: blue + printed number

Core 3: red + printed number

STANDARDS

IEC 60228
IEC 60092-350
IEC 60092-376
IEC 60092-360
IEC 60332-3-22
IEC 60754-1/60754-2
IEC 60684-2
IEC 61034

TCX® (C) 150/250 (300)V Polyester tape lapped inner covering

Cables (mm ²)	Outer diameter			Weight approx. (kg/km)
	Min.(mm)	Nom.(mm)	Max.(mm)	
1 x 2 x 0.5	6.2	6.8	7.4	69
2 x 2 x 0.5 *	6.5	7.2	7.9	89
4 x 2 x 0.5	9.2	10.0	10.8	149
7 x 2 x 0.5	11.0	11.9	12.8	213
10 x 2 x 0.5	14.1	15.2	16.3	354
14 x 2 x 0.5	15.3	16.4	17.5	397
19 x 2 x 0.5	17.0	18.2	19.4	495
24 x 2 x 0.5	19.6	21.0	22.4	640
27 x 2 x 0.5	20.0	21.4	22.8	659
37 x 2 x 0.5	22.5	24.0	25.5	837
1 x 2 x 0.75	6.8	7.5	8.2	86
2 x 2 x 0.75 *	7.6	8.3	9.0	115
4 x 2 x 0.75	11.2	12.1	13.0	196
7 x 2 x 0.75	13.2	14.2	15.2	276
10 x 2 x 0.75	16.1	17.3	18.5	457
14 x 2 x 0.75	18.0	19.3	20.6	528
19 x 2 x 0.75	20.6	22.0	23.4	664
24 x 2 x 0.75	22.7	24.2	25.8	850
27 x 2 x 0.75	24.7	26.4	28.1	902
37 x 2 x 0.75	27.8	29.6	31.4	1152
1 x 2 x 1.0	7.3	8.0	8.7	97
2 x 2 x 1.0 *	8.3	9.1	9.9	136
4 x 2 x 1.0	11.9	12.8	13.8	233
7 x 2 x 1.0	14.5	15.6	16.7	376
10 x 2 x 1.0	18.1	19.4	20.7	542
14 x 2 x 1.0	19.8	21.2	22.6	649
19 x 2 x 1.0	22.1	23.6	25.1	819
24 x 2 x 1.0	25.7	27.4	29.1	1015
27 x 2 x 1.0	26.3	28.0	29.7	1101
37 x 2 x 1.0	29.5	31.4	33.3	1376
1 x 2 x 1.5	8.2	8.9	9.6	124
2 x 2 x 1.5 *	9.2	10.0	10.8	173
4 x 2 x 1.5	13.9	15.0	16.1	344
7 x 2 x 1.5	17.1	18.3	19.5	502
10 x 2 x 1.5	20.7	22.1	23.5	744
14 x 2 x 1.5	23.0	24.6	26.2	882
19 x 2 x 1.5	26.6	28.3	30.0	1121
24 x 2 x 1.5	30.3	32.2	34.2	1411
27 x 2 x 1.5	30.9	32.9	34.9	1535
37 x 2 x 1.5	35.2	37.4	39.6	1947

*: 2 pairs are assembled as a quad

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TCX® (C) 150/250 (300)V Polyester tape lapped inner covering

Cables (mm ²)	Outer diameter			Weight approx. (kg/km)
	Min.(mm)	Nom.(mm)	Max.(mm)	
1 x 2 x 2.5	9.2	10.0	10.8	153
2 x 2 x 2.5 *	10.1	11.0	11.9	223
4 x 2 x 2.5	15.7	16.9	18.1	445
7 x 2 x 2.5	19.1	20.4	21.7	677
10 x 2 x 2.5	24.3	25.9	27.5	991
14 x 2 x 2.5	26.4	28.1	29.8	1210
19 x 2 x 2.5	29.6	31.5	33.4	1570
24 x 2 x 2.5	34.6	36.8	39.0	1940
27 x 2 x 2.5	36.0	38.2	40.5	2252
37 x 2 x 2.5	40.6	43.1	45.6	2859
1 x 3 x 0.5	6.4	7.1	7.8	78
2 x 3 x 0.5	8.7	9.5	10.3	128
4 x 3 x 0.5	9.9	10.7	11.6	181
7 x 3 x 0.5	11.7	12.6	13.6	265
10 x 3 x 0.5	15.4	16.5	17.7	439
14 x 3 x 0.5	16.5	17.7	18.9	509
1 x 3 x 0.75	7.0	7.7	8.4	99
2 x 3 x 0.75	10.5	11.4	12.3	166
4 x 3 x 0.75	11.9	12.9	13.9	241
7 x 3 x 0.75	14.4	15.5	16.6	399
10 x 3 x 0.75	18.4	19.7	21.0	576
14 x 3 x 0.75	19.7	21.1	22.5	707
1 x 3 x 1.0	7.6	8.3	9.0	113
2 x 3 x 1.0	10.9	11.8	12.7	197
4 x 3 x 1.0	12.4	13.4	14.4	290
7 x 3 x 1.0	15.3	16.4	17.5	474
10 x 3 x 1.0	19.5	20.9	22.3	706
14 x 3 x 1.0	21.2	22.7	24.2	852
1 x 3 x 1.5	8.8	9.6	10.4	147
2 x 3 x 1.5	12.5	13.5	14.5	301
4 x 3 x 1.5	15.0	16.1	17.2	430
7 x 3 x 1.5	18.0	19.3	20.6	655
10 x 3 x 1.5	22.9	24.4	25.9	949
14 x 3 x 1.5	24.8	26.5	28.2	1175
1 x 3 x 2.5	9.7	10.5	11.3	186
2 x 3 x 2.5	14.5	15.6	16.7	370
4 x 3 x 2.5	16.9	18.1	19.3	580
7 x 3 x 2.5	20.1	21.5	22.9	890
10 x 3 x 2.5	26.1	27.8	29.5	1309
14 x 3 x 2.5	28.4	30.2	32.0	1658

*: 2 pairs are assembled as a quad

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TCX® (C) 150/250 (300)V Extruded polyolefin inner covering

Cables (mm ²)	Diameter over inner covering	Outer diameter			Weight approx. (kg/km)
	Nom.(mm)	Min.(mm)	Nom.(mm)	Max.(mm)	
1 x 2 x 0.5	5.2	7.8	8.5	9.2	146
2 x 2 x 0.5 *	5.9	8.6	9.4	10.2	180
4 x 2 x 0.5	8.5	11.3	12.2	13.1	275
7 x 2 x 0.5	10.1	12.8	13.8	14.8	352
10 x 2 x 0.5	12.8	16.1	17.3	18.5	543
14 x 2 x 0.5	13.9	17.2	18.5	19.8	600
19 x 2 x 0.5	15.5	18.9	20.3	21.7	720
24 x 2 x 0.5	18.2	21.7	23.2	24.7	901
27 x 2 x 0.5	18.7	22.1	23.6	25.1	925
37 x 2 x 0.5	21.0	24.5	26.2	27.9	1,134
1 x 2 x 0.75	6.1	8.8	9.6	10.4	178
2 x 2 x 0.75 *	6.9	9.6	10.4	11.2	218
4 x 2 x 0.75	10.1	12.8	13.8	14.8	331
7 x 2 x 0.75	12.1	15.3	16.5	17.7	480
10 x 2 x 0.75	15.5	18.9	20.3	21.7	674
14 x 2 x 0.75	17.0	20.3	21.7	23.1	763
19 x 2 x 0.75	19.0	22.4	23.9	25.4	924
24 x 2 x 0.75	22.4	25.8	27.5	29.2	1,153
27 x 2 x 0.75	22.9	26.2	28.0	29.8	1,199
37 x 2 x 0.75	25.8	29.3	31.2	33.1	1,484
1 x 2 x 1.0	6.4	9.1	9.9	10.7	193
2 x 2 x 1.0 *	7.3	9.9	10.8	11.7	240
4 x 2 x 1.0	10.8	14.1	15.2	16.3	423
7 x 2 x 1.0	13.0	16.3	17.5	18.7	565
10 x 2 x 1.0	16.6	20.0	21.4	22.8	779
14 x 2 x 1.0	18.2	21.5	23.0	24.5	895
19 x 2 x 1.0	20.4	23.7	25.3	26.9	1,092
24 x 2 x 1.0	24.0	27.6	29.4	31.2	1,339
27 x 2 x 1.0	24.6	28.1	30.0	31.9	1,442
37 x 2 x 1.0	27.8	31.3	33.3	35.3	1,747
1 x 2 x 1.5	7.3	9.9	10.8	11.7	227
2 x 2 x 1.5 *	8.4	11.2	12.1	13.0	296
4 x 2 x 1.5	12.7	16.0	17.2	18.4	528
7 x 2 x 1.5	15.3	18.7	20.0	21.3	720
10 x 2 x 1.5	19.7	23.1	24.7	26.3	1,008
14 x 2 x 1.5	21.6	25.1	26.8	28.5	1,181
19 x 2 x 1.5	24.2	27.8	29.6	31.4	1,455
24 x 2 x 1.5	29.1	32.7	34.8	36.9	1,866
27 x 2 x 1.5	29.8	33.4	35.5	37.6	2,014
37 x 2 x 1.5	33.6	37.8	40.2	42.6	2,567

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TCX® (C) 150/250 (300)V Extruded polyolefin inner covering

Cables (mm ²)	Diameter over inner covering	Outer diameter			Weight approx. (kg/km)
	Nom.(mm)	Min.(mm)	Nom.(mm)	Max.(mm)	
1 x 2 x 2.5	8.2	11.0	11.9	12.8	272
2 x 2 x 2.5 *	9.4	12.1	13.1	14.1	359
4 x 2 x 2.5	14.3	17.6	18.9	20.2	650
7 x 2 x 2.5	17.3	20.7	22.1	23.5	910
10 x 2 x 2.5	22.5	25.9	27.6	29.3	1,288
14 x 2 x 2.5	24.6	28.2	30.0	31.8	1,548
19 x 2 x 2.5	27.7	31.2	33.2	35.2	1,931
24 x 2 x 2.5	33.2	37.5	39.8	42.2	2,570
27 x 2 x 2.5	34.0	38.2	40.6	43.0	2,802
37 x 2 x 2.5	38.4	42.8	45.4	48.0	3,459
1 x 3 x 0.5	5.5	8.2	9.0	9.8	163
2 x 3 x 0.5	7.7	10.5	11.4	12.3	245
4 x 3 x 0.5	8.9	11.6	12.6	13.6	313
7 x 3 x 0.5	10.7	13.9	15.0	16.1	455
10 x 3 x 0.5	13.7	16.9	18.2	19.5	631
14 x 3 x 0.5	14.9	18.3	19.6	20.9	726
1 x 3 x 0.75	6.4	9.1	9.9	10.7	195
2 x 3 x 0.75	9.2	11.9	12.9	13.9	301
4 x 3 x 0.75	10.7	14.0	15.1	16.2	425
7 x 3 x 0.75	12.9	16.2	17.4	18.6	576
10 x 3 x 0.75	16.7	20.0	21.4	22.8	797
14 x 3 x 0.75	18.1	21.6	23.1	24.6	965
1 x 3 x 1.0	6.8	9.5	10.3	11.1	214
2 x 3 x 1.0	9.8	12.5	13.5	14.5	333
4 x 3 x 1.0	11.5	14.7	15.8	16.9	491
7 x 3 x 1.0	13.8	17.0	18.3	19.6	675
10 x 3 x 1.0	17.9	21.3	22.8	24.3	959
14 x 3 x 1.0	19.5	22.8	24.4	26.0	1,115
1 x 3 x 1.5	7.8	10.4	11.3	12.2	255
2 x 3 x 1.5	11.5	14.7	15.8	16.9	452
4 x 3 x 1.5	13.5	16.8	18.0	19.2	625
7 x 3 x 1.5	16.3	19.6	21.0	22.4	877
10 x 3 x 1.5	21.2	24.6	26.3	28.0	1,244
14 x 3 x 1.5	23.1	26.7	28.5	30.3	1,495
1 x 3 x 2.5	8.7	11.5	12.4	13.3	312
2 x 3 x 2.5	13.0	16.3	17.5	18.7	558
4 x 3 x 2.5	15.3	18.7	20.0	21.3	798
7 x 3 x 2.5	18.5	22.0	23.5	25.0	1,150
10 x 3 x 2.5	24.2	27.7	29.5	31.3	1,627

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