

TCX® (I) 150/250 (300) V

APPLICATION

TCX® (I) 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® (I) 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. Individual screen

Alu/Polyester tape with a tinned copper drain wire

4. Inner covering

Polyester tape
or polyolefin

5. Armouring

Bare copper braid

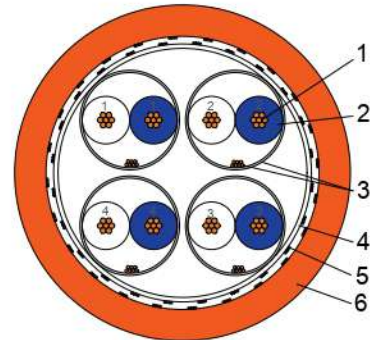
6. Outer sheath

Polyolefin SHF1

Colour: orange

MARKING

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



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



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



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TCX® (I) 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	6.4	7.1	7.8	74
2 x 2 x 0.5	9.3	10.1	10.9	141
4 x 2 x 0.5	10.6	11.5	12.4	169
7 x 2 x 0.5	12.6	13.6	14.6	243
10 x 2 x 0.5	16.3	17.5	18.7	379
14 x 2 x 0.5	17.7	19.0	20.3	468
19 x 2 x 0.5	19.5	20.9	22.3	573
24 x 2 x 0.5	22.9	24.5	26.1	726
27 x 2 x 0.5	23.5	25.1	26.7	780
37 x 2 x 0.5	26.3	28.1	29.9	990
1 x 2 x 0.75	7.2	7.9	8.6	91
2 x 2 x 0.75	10.6	11.5	12.4	178
4 x 2 x 0.75	12.4	13.4	14.4	217
7 x 2 x 0.75	15.4	16.5	17.6	354
10 x 2 x 0.75	19.2	20.6	22.0	513
14 x 2 x 0.75	21.0	22.4	23.9	650
19 x 2 x 0.75	23.3	24.9	26.5	824
24 x 2 x 0.75	27.2	29.0	30.8	950
27 x 2 x 0.75	27.8	29.6	31.4	1022
37 x 2 x 0.75	31.2	33.2	35.2	1307
1 x 2 x 1.0	7.6	8.3	9.0	101
2 x 2 x 1.0	11.4	12.3	13.2	203
4 x 2 x 1.0	13.3	14.3	15.3	256
7 x 2 x 1.0	16.3	17.5	18.7	417
10 x 2 x 1.0	20.8	22.2	23.6	590
14 x 2 x 1.0	22.4	23.9	25.4	727
19 x 2 x 1.0	25.0	26.7	28.4	919
24 x 2 x 1.0	29.5	31.4	33.3	1129
27 x 2 x 1.0	30.1	32.0	33.9	1218
37 x 2 x 1.0	33.8	35.9	38.0	1564
1 x 2 x 1.5	8.5	9.3	10.1	129
2 x 2 x 1.5	12.9	13.9	14.9	260
4 x 2 x 1.5	15.6	16.7	17.8	371
7 x 2 x 1.5	18.6	19.9	21.2	546
10 x 2 x 1.5	23.6	25.2	26.8	809
14 x 2 x 1.5	25.8	27.5	29.2	977
19 x 2 x 1.5	28.7	30.6	32.5	1288
24 x 2 x 1.5	33.9	36.0	38.1	1522
27 x 2 x 1.5	34.6	36.8	39.0	1651
37 x 2 x 1.5	39.5	41.9	44.3	2253

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Cables (mm ²)	Outer diameter			Weight approx. (kg/km)
	Min.(mm)	Nom.(mm)	Max.(mm)	
1 x 2 x 2.5	9.3	10.1	10.9	159
2 x 2 x 2.5	14.9	16.0	17.1	370
4 x 2 x 2.5	17.4	18.6	19.8	483
7 x 2 x 2.5	20.8	22.2	23.6	725
10 x 2 x 2.5	26.6	28.3	30.0	1025
14 x 2 x 2.5	28.9	30.8	32.7	1315
19 x 2 x 2.5	32.3	34.4	36.5	1688
24 x 2 x 2.5	38.7	41.1	43.5	2187
27 x 2 x 2.5	39.6	42.0	44.4	2376
37 x 2 x 2.5	44.6	47.3	50.0	3101
1 x 3 x 0.5	6.7	7.4	8.1	79
2 x 3 x 0.5	10.2	11.1	12.0	169
4 x 3 x 0.5	11.8	12.8	13.8	216
7 x 3 x 0.5	14.5	15.6	16.7	349
10 x 3 x 0.5	18.2	19.5	20.8	483
14 x 3 x 0.5	19.6	21.0	22.4	592
1 x 3 x 0.75	7.6	8.3	9.0	99
2 x 3 x 0.75	12.0	13.0	14.0	224
4 x 3 x 0.75	13.7	14.8	15.9	272
7 x 3 x 0.75	17.0	18.2	19.4	500
10 x 3 x 0.75	21.6	23.1	24.6	631
14 x 3 x 0.75	23.5	25.1	26.7	794
1 x 3 x 1.0	8.0	8.7	9.4	111
2 x 3 x 1.0	12.7	13.7	14.7	252
4 x 3 x 1.0	15.3	16.4	17.5	369
7 x 3 x 1.0	18.2	19.5	20.8	543
10 x 3 x 1.0	23.0	24.6	26.2	754
14 x 3 x 1.0	25.1	26.8	28.5	959
1 x 3 x 1.5	8.9	9.7	10.5	142
2 x 3 x 1.5	14.8	15.9	17.0	362
4 x 3 x 1.5	17.2	18.4	19.6	478
7 x 3 x 1.5	20.6	22.0	23.4	716
10 x 3 x 1.5	26.3	28.0	29.7	1012
14 x 3 x 1.5	28.6	30.5	32.4	1299
1 x 3 x 2.5	9.8	10.6	11.4	181
2 x 3 x 2.5	16.6	17.8	19.0	468
4 x 3 x 2.5	19.4	20.7	22.1	636
7 x 3 x 2.5	23.1	24.7	26.3	970
10 x 3 x 2.5	29.7	31.6	33.5	1374
14 x 3 x 2.5	32.4	34.5	36.6	1786

Products on request

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TCX® (I) 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	5.5	8.0	8.8	9.6	124
2 x 2 x 0.5	8.3	10.9	11.8	12.7	207
4 x 2 x 0.5	9.7	12.4	13.4	14.4	249
7 x 2 x 0.5	11.6	14.9	16.0	17.1	373
10 x 2 x 0.5	14.8	18.1	19.4	20.7	497
14 x 2 x 0.5	16.1	19.3	20.7	22.1	585
19 x 2 x 0.5	18.0	21.3	22.8	24.3	712
24 x 2 x 0.5	21.2	24.5	26.2	27.9	873
27 x 2 x 0.5	21.8	25.1	26.8	28.5	930
37 x 2 x 0.5	24.6	27.9	29.8	31.7	1156
1 x 2 x 0.75	6.3	9.0	9.8	10.6	151
2 x 2 x 0.75	9.7	12.4	13.4	14.4	258
4 x 2 x 0.75	11.4	14.7	15.8	16.9	341
7 x 2 x 0.75	13.8	17.1	18.4	19.7	462
10 x 2 x 0.75	17.7	21.0	22.5	24.0	620
14 x 2 x 0.75	19.3	22.7	24.3	25.9	751
19 x 2 x 0.75	21.6	24.9	26.6	28.3	907
24 x 2 x 0.75	25.5	29.0	30.9	32.8	1130
27 x 2 x 0.75	26.1	29.6	31.5	33.4	1207
37 x 2 x 0.75	29.5	33.0	35.1	37.2	1512
1 x 2 x 1.0	6.7	9.4	10.2	11.0	164
2 x 2 x 1.0	10.5	13.2	14.2	15.2	288
4 x 2 x 1.0	12.3	15.5	16.7	17.9	391
7 x 2 x 1.0	14.8	18.1	19.4	20.7	535
10 x 2 x 1.0	19.1	22.4	23.9	25.4	722
14 x 2 x 1.0	20.8	24.2	25.8	27.4	882
19 x 2 x 1.0	23.4	26.8	28.6	30.4	1091
24 x 2 x 1.0	27.7	31.1	33.1	35.1	1306
27 x 2 x 1.0	28.3	31.8	33.9	36.0	1457
37 x 2 x 1.0	32.4	35.9	38.2	40.5	1823
1 x 2 x 1.5	7.5	10.1	11.0	11.9	192
2 x 2 x 1.5	11.9	15.2	16.3	17.4	392
4 x 2 x 1.5	14.0	17.3	18.6	19.9	484
7 x 2 x 1.5	17.0	20.4	21.8	23.2	677
10 x 2 x 1.5	21.9	25.4	27.1	28.8	932
14 x 2 x 1.5	24.0	27.6	29.4	31.2	1153
19 x 2 x 1.5	26.9	30.5	32.5	34.5	1435
24 x 2 x 1.5	32.3	36.4	38.7	41.0	1874
27 x 2 x 1.5	33.1	37.2	39.5	41.8	2069
37 x 2 x 1.5	37.4	41.6	44.2	46.8	2556

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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	8.3	11.1	12.0	12.9	233
2 x 2 x 2.5	13.3	16.7	17.9	19.1	479
4 x 2 x 2.5	15.7	19.1	20.5	21.9	606
7 x 2 x 2.5	19.1	22.6	24.1	25.6	869
10 x 2 x 2.5	24.8	28.3	30.2	32.1	1,205
14 x 2 x 2.5	27.1	30.7	32.7	34.7	1,510
19 x 2 x 2.5	30.9	34.5	36.7	38.9	1,943
24 x 2 x 2.5	36.6	40.9	43.4	45.9	2,483
27 x 2 x 2.5	37.5	41.7	44.3	46.9	2,757
37 x 2 x 2.5	42.8	47.1	50.0	52.9	3,490
1 x 3 x 0.5	5.8	8.5	9.3	10.1	140
2 x 3 x 0.5	9.3	12.0	13.0	14.0	246
4 x 3 x 0.5	10.8	13.4	14.5	15.6	296
7 x 3 x 0.5	12.9	16.1	17.3	18.5	447
10 x 3 x 0.5	16.6	20.0	21.4	22.8	613
14 x 3 x 0.5	18.1	21.4	22.9	24.4	732
1 x 3 x 0.75	6.7	9.4	10.2	11.0	167
2 x 3 x 0.75	11.0	13.6	14.7	15.8	305
4 x 3 x 0.75	12.8	16.0	17.2	18.4	408
7 x 3 x 0.75	15.5	18.8	20.1	21.4	565
10 x 3 x 0.75	20.0	23.4	25.0	26.6	777
14 x 3 x 0.75	21.8	25.1	26.8	28.5	967
1 x 3 x 1.0	7.1	9.8	10.6	11.5	183
2 x 3 x 1.0	11.7	15.0	16.1	17.2	383
4 x 3 x 1.0	13.7	16.9	18.1	19.3	471
7 x 3 x 1.0	16.6	19.8	21.2	22.6	661
10 x 3 x 1.0	21.5	24.8	26.5	28.2	913
14 x 3 x 1.0	23.5	26.9	28.7	30.5	1,132
1 x 3 x 1.5	7.9	10.5	11.4	12.3	217
2 x 3 x 1.5	13.2	16.6	17.8	19.0	470
4 x 3 x 1.5	15.5	18.8	20.1	21.4	590
7 x 3 x 1.5	18.9	22.4	23.9	25.4	860
10 x 3 x 1.5	24.5	28.1	29.9	31.7	1,191
14 x 3 x 1.5	26.8	30.4	32.4	34.4	1,493
1 x 3 x 2.5	8.8	11.6	12.5	13.4	269
2 x 3 x 2.5	14.9	18.2	19.5	20.8	577
4 x 3 x 2.5	17.6	20.9	22.4	23.9	760
7 x 3 x 2.5	21.4	24.9	26.6	28.3	1,129
10 x 3 x 2.5	27.9	31.5	33.5	35.5	1,573

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