

TCX[®] (I)331 150/250 (300) V

APPLICATION

TCX[®](I) 331 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) 331 type meets IEC 60331 fire resistant performances, 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

Mica tape + 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

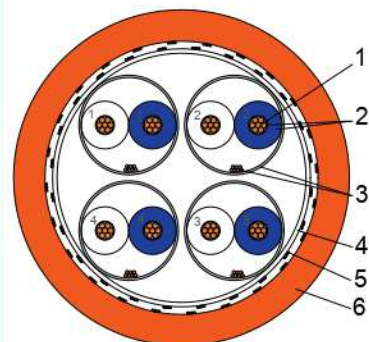
6. Outer sheath

Polyolefin SHF1

Colour: orange

MARKING

NEXANS 448 TCX (I) 331 150/250V «n» x 2 «or» 3 x «s» mm² 90°C IEC 60332-3-22 IEC 60331 «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 60331
IEC 60332-3-22
IEC 60754-1/60754-2
IEC 60684-2
IEC 61034



Fire resistant
IEC 60331-21
IEC 60331-1 or 2



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)331 150/250 (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 0.75	9.1	9.9	10.7	130
2 x 2 x 0.75	13.9	15.0	16.1	268
4 x 2 x 0.75	16.7	17.9	19.1	343
7 x 2 x 0.75	20.2	21.6	23.0	500
10 x 2 x 0.75	25.9	27.6	29.3	712
14 x 2 x 0.75	27.9	29.8	31.7	856
19 x 2 x 0.75	31.3	33.3	35.3	1073
24 x 2 x 0.75	36.9	39.3	41.7	1367
27 x 2 x 0.75	38.3	40.7	43.1	1575
37 x 2 x 0.75	43.1	45.8	48.5	2010
1 x 2 x 1.0	9.3	10.1	10.9	139
2 x 2 x 1.0	14.5	15.6	16.7	295
4 x 2 x 1.0	17.3	18.6	19.9	392
7 x 2 x 1.0	20.7	22.1	23.6	562
10 x 2 x 1.0	26.5	28.3	30.1	802
14 x 2 x 1.0	28.9	30.8	32.7	990
19 x 2 x 1.0	32.3	34.4	36.5	1246
24 x 2 x 1.0	38.6	41.0	43.4	1640
27 x 2 x 1.0	39.5	42.0	44.5	1769
37 x 2 x 1.0	44.2	47.0	49.8	2241
1 x 2 x 1.5	9.7	10.5	11.3	156
2 x 2 x 1.5	15.2	16.3	17.4	330
4 x 2 x 1.5	18.1	19.4	20.7	449
7 x 2 x 1.5	21.9	23.4	24.9	670
10 x 2 x 1.5	28.0	29.9	31.8	954
14 x 2 x 1.5	30.6	32.6	34.6	1193
19 x 2 x 1.5	34.2	36.4	38.6	1511
24 x 2 x 1.5	40.9	43.5	46.1	1992
27 x 2 x 1.5	41.8	44.4	47.0	2134
37 x 2 x 1.5	47.0	49.9	52.8	2752
1 x 2 x 2.5	10.6	11.5	12.4	193
2 x 2 x 2.5	17.0	18.2	19.4	420
4 x 2 x 2.5	20.4	21.8	23.2	577
7 x 2 x 2.5	24.5	26.1	27.8	859
10 x 2 x 2.5	31.7	33.7	35.7	1242
14 x 2 x 2.5	34.5	36.7	38.9	1571
19 x 2 x 2.5	39.1	41.6	44.1	2130
24 x 2 x 2.5	46.2	49.0	51.8	2616
27 x 2 x 2.5	47.3	50.2	53.1	2845
37 x 2 x 2.5	53.4	56.6	59.8	3696

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TCX® (I)331 150/250 (300)V Polyester tape lapped inner covering

Cables (mm ²)	Outer diameter			Weight approx. (kg/km)
	Min.(mm)	Nom.(mm)	Max.(mm)	
1 x 3 x 0.75	9.6	10.4	11.2	149
2 x 3 x 0.75	16.0	17.2	18.4	371
4 x 3 x 0.75	18.7	20.0	21.3	432
7 x 3 x 0.75	22.4	23.9	25.4	626
10 x 3 x 0.75	28.9	30.8	32.7	909
14 x 3 x 0.75	31.5	33.6	35.7	1127
1 x 3 x 1.0	9.8	10.6	11.4	161
2 x 3 x 1.0	16.4	17.6	18.8	395
4 x 3 x 1.0	19.0	20.4	21.8	485
7 x 3 x 1.0	23.1	24.7	26.3	726
10 x 3 x 1.0	29.7	31.6	33.6	1034
14 x 3 x 1.0	32.3	34.4	36.5	1294
1 x 3 x 1.5	10.2	11.1	12.0	184
2 x 3 x 1.5	17.4	18.7	20.0	459
4 x 3 x 1.5	20.4	21.8	23.2	582
7 x 3 x 1.5	24.4	26.1	27.8	867
10 x 3 x 1.5	31.6	33.6	35.7	1253
14 x 3 x 1.5	34.5	36.7	38.9	1587
1 x 3 x 2.5	11.4	12.3	13.2	237
2 x 3 x 2.5	19.4	20.8	22.2	580
4 x 3 x 2.5	22.7	24.2	25.8	752
7 x 3 x 2.5	27.3	29.1	30.9	1143
10 x 3 x 2.5	35.4	37.6	39.9	1649
14 x 3 x 2.5	39.1	41.6	44.1	2240

Products on request

TCX® (I)331 150/250 (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 0.75	7.9	10.7	11.6	12.5	199
2 x 2 x 0.75	8.9	15.3	16.5	17.7	352
4 x 2 x 0.75	13.6	18.5	19.8	21.1	466
7 x 2 x 0.75	16.5	21.8	23.3	24.8	634
10 x 2 x 0.75	21.4	27.5	29.3	31.1	872
14 x 2 x 0.75	23.3	29.7	31.7	33.7	1054
19 x 2 x 0.75	26.2	33.0	35.2	37.4	1292
24 x 2 x 0.75	31.5	39.7	42.2	44.7	1780
27 x 2 x 0.75	32.2	40.4	43.0	45.6	1890
37 x 2 x 0.75	36.3	45.1	47.9	50.7	2338
1 x 2 x 1.0	8.0	11.1	12.0	12.9	215
2 x 2 x 1.0	9.1	15.7	16.9	18.1	374
4 x 2 x 1.0	14.0	18.9	20.3	21.7	513
7 x 2 x 1.0	16.9	22.4	24.0	25.6	716
10 x 2 x 1.0	22.0	28.3	30.2	32.1	986
14 x 2 x 1.0	24.0	30.7	32.7	34.7	1200
19 x 2 x 1.0	26.9	34.5	36.7	38.9	1518
24 x 2 x 1.0	32.4	40.7	43.3	45.9	1943
27 x 2 x 1.0	33.1	41.5	44.1	46.7	2131
37 x 2 x 1.0	37.3	46.8	49.7	52.6	2654
1 x 2 x 1.5	8.6	11.5	12.4	13.4	234
2 x 2 x 1.5	9.8	16.4	17.6	18.8	412
4 x 2 x 1.5	15.0	19.9	21.3	22.7	586
7 x 2 x 1.5	18.2	23.5	25.1	26.7	819
10 x 2 x 1.5	23.7	29.8	31.8	33.8	1147
14 x 2 x 1.5	25.9	32.8	34.9	37.0	1452
19 x 2 x 1.5	29.5	36.7	39.1	41.5	1896
24 x 2 x 1.5	35.0	42.9	45.6	48.3	2287
27 x 2 x 1.5	35.8	43.9	46.7	49.5	2547
37 x 2 x 1.5	40.8	49.5	52.6	55.7	3187
1 x 2 x 2.5	9.4	12.4	13.4	14.4	277
2 x 2 x 2.5	10.8	18.2	19.5	20.8	510
4 x 2 x 2.5	16.7	22.2	23.7	25.2	728
7 x 2 x 2.5	20.3	26.2	28.0	29.8	1037
10 x 2 x 2.5	26.5	33.8	36.0	38.2	1495
14 x 2 x 2.5	29.3	37.0	39.4	41.8	1957
19 x 2 x 2.5	33.0	41.3	43.9	46.5	2458
24 x 2 x 2.5	39.6	48.7	51.7	54.7	3025
27 x 2 x 2.5	40.4	49.8	52.9	56.0	3376
37 x 2 x 2.5	45.7	55.9	59.3	62.7	4184

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TCX® (I)331 150/250 (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 3 x 0.75	8.4	11.4	12.3	13.2	226
2 x 3 x 0.75	12.4	17.8	19.1	20.4	490
4 x 3 x 0.75	14.5	20.4	21.9	23.4	569
7 x 3 x 0.75	17.6	24.1	25.8	27.5	786
10 x 3 x 0.75	22.8	30.5	32.5	34.5	1086
14 x 3 x 0.75	24.9	33.1	35.3	37.5	1370
1 x 3 x 1.0	8.6	11.5	12.5	13.5	239
2 x 3 x 1.0	12.7	18.2	19.5	20.8	515
4 x 3 x 1.0	14.9	20.8	22.3	23.8	628
7 x 3 x 1.0	18.1	24.7	26.4	28.1	882
10 x 3 x 1.0	23.5	31.4	33.5	35.6	1238
14 x 3 x 1.0	25.6	34.5	36.7	38.9	1566
1 x 3 x 1.5	9.2	12.0	13.0	14.0	266
2 x 3 x 1.5	13.6	19.2	20.6	22.0	586
4 x 3 x 1.5	16.0	22.2	23.7	25.2	734
7 x 3 x 1.5	19.5	26.2	28.0	29.8	1046
10 x 3 x 1.5	25.4	33.7	35.9	38.1	1507
14 x 3 x 1.5	27.8	37.0	39.4	41.8	1975
1 x 3 x 2.5	10.1	13.0	14.0	15.0	319
2 x 3 x 2.5	15.1	21.0	22.5	24.0	707
4 x 3 x 2.5	17.8	24.2	25.9	27.6	905
7 x 3 x 2.5	21.7	29.1	31.0	32.9	1340
10 x 3 x 2.5	28.8	37.9	40.3	42.7	2032
14 x 3 x 2.5	31.4	41.3	43.9	46.5	2567

Products on request

