

TX[®] (I)331 150/250 (300) V

APPLICATION

TX[®] (I) 331 type is used on board of ships in all locations below the upper metallic deck for fixed installations complying with IEC standards 60092-352. TX[®] (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. Outer sheath

Polyolefin SHF1

Colour: orange

MARKING

NEXANS 448 TX (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



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



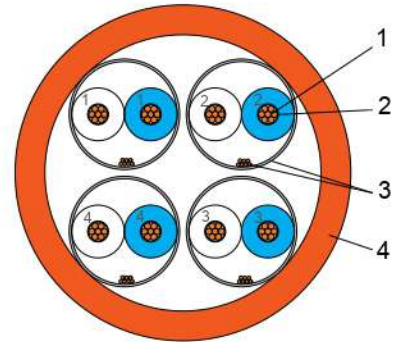
-30 +80°C



EMI

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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

TX® (I)331 150/250 (300)V

Cables (mm ²)	Outer diameter			Weight approx. (kg/km)
	Min.(mm)	Nom.(mm)	Max.(mm)	
1 x 2 x 0.5	7.6	8.4	9.3	83
2 x 2 x 0.5	12.1	13.4	14.6	185
3 x 2 x 0.5	12.8	14.2	15.4	202
4 x 2 x 0.5	14	15.6	16.9	231
5 x 2 x 0.5	15.6	17.3	18.7	296
7 x 2 x 0.5	17.2	19.1	20.6	336
8 x 2 x 0.5	18.7	20.8	22.3	380
10 x 2 x 0.5	22.2	24.7	26.4	487
12 x 2 x 0.5	23	25.5	27.3	529
14 x 2 x 0.5	24.2	26.9	28.7	582
16 x 2 x 0.5	25.7	28.6	30.5	676
19 x 2 x 0.5	27.2	30.2	32.2	729
24 x 2 x 0.5	32.2	35.8	38.1	938
27 x 2 x 0.5	32.9	36.6	38.9	1002
30 x 2 x 0.5	34.2	38.0	40.4	1047
37 x 2 x 0.5	37.2	41.3	43.9	1239
44 x 2 x 0.5	42.0	46.7	49.5	1477
48 x 2 x 0.5	42.9	47.7	50.6	1564
1 x 2 x 0.75	8.3	9.2	10.2	100
2 x 2 x 0.75	13.3	14.8	16.0	228
3 x 2 x 0.75	14.3	15.9	17.2	258
4 x 2 x 0.75	15.8	17.5	18.9	297
5 x 2 x 0.75	17.6	19.6	21.1	391
7 x 2 x 0.75	19.3	21.4	23.0	434
8 x 2 x 0.75	21.1	23.4	25.1	490
10 x 2 x 0.75	25.0	27.8	29.7	632
12 x 2 x 0.75	25.8	28.7	30.6	688
14 x 2 x 0.75	27.4	30.4	32.4	773
16 x 2 x 0.75	28.9	32.1	34.2	880
19 x 2 x 0.75	30.7	34.1	36.3	969
24 x 2 x 0.75	36.3	40.3	42.8	1190
27 x 2 x 0.75	37.3	41.4	44.0	1295
30 x 2 x 0.75	38.6	42.9	45.5	1393
37 x 2 x 0.75	41.9	46.6	49.4	1650
44 x 2 x 0.75	47.7	53.0	56.2	1993
48 x 2 x 0.75	48.5	53.9	57.1	2081
1 x 2 x 1.0	8.6	9.6	10.6	112
2 x 2 x 1.0	14.1	15.7	17.0	263
3 x 2 x 1.0	15.0	16.7	18.0	291
4 x 2 x 1.0	16.7	18.6	20.0	345
5 x 2 x 1.0	18.5	20.6	22.1	441

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Cables (mm ²)	Outer diameter			Weight approx. (kg/km)
	Min.(mm)	Nom.(mm)	Max.(mm)	
7 x 2 x 1.0	20.3	22.5	24.1	492
8 x 2 x 1.0	22.1	24.6	26.3	558
10 x 2 x 1.0	26.3	29.2	31.2	716
12 x 2 x 1.0	27.1	30.1	32.1	782
14 x 2 x 1.0	28.8	32.0	34.1	882
16 x 2 x 1.0	30.4	33.8	36.0	1005
19 x 2 x 1.0	32.3	35.9	38.2	1079
24 x 2 x 1.0	38.3	42.6	45.2	1382
27 x 2 x 1.0	39.2	43.6	46.3	1485
30 x 2 x 1.0	40.7	45.2	48.0	1601
37 x 2 x 1.0	44.2	49.1	52.1	1902
44 x 2 x 1.0	50.3	55.9	59.2	2294
48 x 2 x 1.0	51.3	57.0	60.4	2429
1 x 2 x 1.5	9.0	10.0	11.0	132
2 x 2 x 1.5	14.9	16.5	17.8	318
3 x 2 x 1.5	15.9	17.7	19.1	360
4 x 2 x 1.5	17.6	19.6	21.1	426
5 x 2 x 1.5	19.5	21.7	23.3	540
7 x 2 x 1.5	21.3	23.7	25.4	612
8 x 2 x 1.5	23.3	25.9	27.7	691
10 x 2 x 1.5	27.9	31.0	33.1	908
12 x 2 x 1.5	28.8	32.0	34.1	994
14 x 2 x 1.5	30.4	33.8	36.0	1070
16 x 2 x 1.5	32.3	35.9	38.2	1234
19 x 2 x 1.5	34.3	38.1	40.5	1370
24 x 2 x 1.5	40.7	45.2	48.0	1752
27 x 2 x 1.5	41.6	46.2	49.0	1885
30 x 2 x 1.5	43.3	48.1	51.0	2059
37 x 2 x 1.5	47.0	52.2	55.3	2444
44 x 2 x 1.5	53.4	59.3	62.8	2724
48 x 2 x 1.5	54.3	60.3	63.8	2911
1 x 2 x 2.5	9.9	11.0	12.1	170
2 x 2 x 2.5	16.3	18.1	19.5	406
3 x 2 x 2.5	17.5	19.4	20.9	465
4 x 2 x 2.5	19.4	21.5	23.1	554
5 x 2 x 2.5	21.4	23.8	25.5	701
7 x 2 x 2.5	23.5	26.1	27.9	810
8 x 2 x 2.5	25.7	28.5	30.4	914
10 x 2 x 2.5	30.6	34.0	36.2	1161
12 x 2 x 2.5	31.7	35.2	37.5	1282
14 x 2 x 2.5	33.6	37.3	39.7	1444

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Cables (mm ²)	Outer diameter			Weight approx. (kg/km)
	Min.(mm)	Nom.(mm)	Max.(mm)	
16 x 2 x 2.5	35.5	39.4	41.9	1644
19 x 2 x 2.5	37.6	41.8	44.4	1835
24 x 2 x 2.5	44.8	49.8	52.8	2368
27 x 2 x 2.5	45.9	51.0	54.1	2559
30 x 2 x 2.5	47.8	53.1	56.3	2798
37 x 2 x 2.5	51.8	57.6	61.0	3332
44 x 2 x 2.5	58.9	65.4	69.2	4000
48 x 2 x 2.5	60.0	66.7	70.5	4233
1 x 3 x 0.5	7.9	8.8	9.7	93
2 x 3 x 0.5	13.2	14.7	15.9	229
3 x 3 x 0.5	14.1	15.7	17.0	256
4 x 3 x 0.5	15.7	17.4	18.8	306
5 x 3 x 0.5	17.4	19.3	20.8	387
7 x 3 x 0.5	19.2	21.3	22.9	447
8 x 3 x 0.5	20.9	23.2	24.9	505
10 x 3 x 0.5	24.7	27.4	29.3	631
12 x 3 x 0.5	25.7	28.5	30.4	707
14 x 3 x 0.5	27.0	30.0	32.0	781
16 x 3 x 0.5	28.7	31.9	34.0	904
19 x 3 x 0.5	30.3	33.7	35.9	987
24 x 3 x 0.5	36.0	40.0	42.5	1227
27 x 3 x 0.5	36.8	40.9	43.4	1320
30 x 3 x 0.5	38.3	42.5	45.1	1425
37 x 3 x 0.5	41.6	46.2	49.0	1695
44 x 3 x 0.5	47.3	52.5	55.6	2043
48 x 3 x 0.5	48.1	53.4	56.6	2145
1 x 3 x 0.75	8.7	9.7	10.7	114
2 x 3 x 0.75	14.9	16.6	17.9	295
3 x 3 x 0.75	15.9	17.7	19.1	331
4 x 3 x 0.75	17.8	19.8	21.3	404
5 x 3 x 0.75	19.6	21.8	23.4	502
7 x 3 x 0.75	21.6	24.0	25.7	582
8 x 3 x 0.75	23.6	26.2	28.0	657
10 x 3 x 0.75	28.1	31.2	33.3	842
12 x 3 x 0.75	29.0	32.2	34.3	926
14 x 3 x 0.75	30.8	34.2	36.4	1045
16 x 3 x 0.75	32.5	36.1	38.4	1154
19 x 3 x 0.75	34.5	38.3	40.7	1282
24 x 3 x 0.75	41.0	45.5	48.3	1639
27 x 3 x 0.75	41.9	46.6	49.4	1768
30 x 3 x 0.75	43.7	48.5	51.4	1933

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Cables (mm ²)	Outer diameter			Weight approx. (kg/km)
	Min.(mm)	Nom.(mm)	Max.(mm)	
37 x 3 x 0.75	47.4	52.7	55.8	2298
44 x 3 x 0.75	53.8	59.8	63.3	2763
48 x 3 x 0.75	54.8	60.9	64.4	2903
1 x 3 x 1.0	9.1	10.1	11.1	123
2 x 3 x 1.0	15.7	17.4	18.8	331
3 x 3 x 1.0	16.8	18.7	20.1	383
4 x 3 x 1.0	18.6	20.7	22.2	458
5 x 3 x 1.0	20.5	22.8	24.4	569
7 x 3 x 1.0	22.6	25.1	26.9	664
8 x 3 x 1.0	24.8	27.5	29.4	752
10 x 3 x 1.0	29.4	32.7	34.8	960
12 x 3 x 1.0	30.4	33.8	36.0	1030
14 x 3 x 1.0	32.2	35.8	38.1	1163
16 x 3 x 1.0	34.3	38.1	40.5	1343
19 x 3 x 1.0	36.2	40.2	42.7	1477
24 x 3 x 1.0	43.0	47.8	50.7	1886
27 x 3 x 1.0	44.0	48.9	51.8	2039
30 x 3 x 1.0	45.8	50.9	53.9	2233
37 x 3 x 1.0	49.8	55.3	58.6	2661
44 x 3 x 1.0	56.6	62.9	66.5	3197
48 x 3 x 1.0	57.8	64.2	67.9	3398
1 x 3 x 1.5	9.7	10.8	11.8	152
2 x 3 x 1.5	16.8	18.7	20.1	422
3 x 3 x 1.5	17.9	19.9	21.4	477
4 x 3 x 1.5	19.9	22.1	23.7	570
5 x 3 x 1.5	22.1	24.5	26.2	718
7 x 3 x 1.5	24.0	26.7	28.5	832
8 x 3 x 1.5	26.3	29.2	31.2	939
10 x 3 x 1.5	31.5	35.0	37.3	1188
12 x 3 x 1.5	32.5	36.1	38.4	1314
14 x 3 x 1.5	34.5	38.3	40.7	1483
16 x 3 x 1.5	36.5	40.5	43.0	1685
19 x 3 x 1.5	38.7	43.0	45.7	1886
24 x 3 x 1.5	46.1	51.2	54.3	2430
27 x 3 x 1.5	47.2	52.4	55.5	2629
30 x 3 x 1.5	49.1	54.5	57.7	2875
37 x 3 x 1.5	53.3	59.2	62.7	3428
44 x 3 x 1.5	60.7	67.4	71.3	4143
48 x 3 x 1.5	61.7	68.6	72.5	4362

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Cables (mm ²)	Outer diameter			Weight approx. (kg/km)
	Min.(mm)	Nom.(mm)	Max.(mm)	
1 x 3 x 2.5	10.4	11.6	12.7	192
2 x 3 x 2.5	18.2	20.2	21.7	527
3 x 3 x 2.5	19.5	21.7	23.3	617
4 x 3 x 2.5	21.7	24.1	25.8	743
5 x 3 x 2.5	23.9	26.5	28.3	923
7 x 3 x 2.5	26.3	29.2	31.2	1073
8 x 3 x 2.5	28.7	31.9	34.0	1213
10 x 3 x 2.5	34.4	38.2	40.6	1573
12 x 3 x 2.5	35.6	39.5	42.0	1755
14 x 3 x 2.5	37.6	41.8	44.4	1986
16 x 3 x 2.5	40.0	44.4	47.1	2282
19 x 3 x 2.5	42.4	47.1	50.0	2568
24 x 3 x 2.5	50.3	55.9	59.2	3270
27 x 3 x 2.5	51.7	57.4	60.8	3582
30 x 3 x 2.5	53.8	59.8	63.3	3925
37 x 3 x 2.5	58.4	64.9	68.6	4696
44 x 3 x 2.5	66.4	73.8	78.0	5658
48 x 3 x 2.5	67.6	75.1	79.4	5978

Products on request