



# BOSTMARINE TYPE T/N SIGNAL CABLE

indiv. & overall shielded twisted pair / unarmored & armored  
20 AWG • 0.52 mm<sup>2</sup> / 300V

## APPLICATIONS

BOSTMARINE Type T/N 300 volt cables are suitable for use in commercial marine applications where flame retardant cables having excellent physical and electrical properties are required. The insulation system has a continuous operating temperature of 90°C.

These cables meet all test requirements of IEEE 45 (1998), IEEE 1580 (2001), UL 1309 and the Flame Test in IEC 60332-3, Category A. They are listed by ETL, a nationally recognized testing laboratory, per IEEE 45 (1998), IEEE-1580 (2001) and UL 1309 for 300 volts. Type T/N cables are Type Approved by ABS and LRS.

**Aluminum and bronze armored versions are available.**

**Optional outer PVC sheath available upon request.**

## FEATURES

- IEEE STANDARD 45 (1998)
- IEEE STANDARD 1580 (2001)
- UL 1309/CSA 245 (1995) FIRST EDITION

## CONSTRUCTION

### 1. CONDUCTORS

Soft annealed bare copper per ASTM B 3 and B 8, stranded as shown in table on reverse.

### 2. INSULATION

Bostmarine Type T/N polyvinyl chloride/nylon meeting specification IEEE 45 (1998), IEEE 1580 (2001) and UL 1309/CSA 245. Thickness as shown in tables on the reverse. Insulated conductors are rated VW1.

### 3. PAIR SHIELD

Aluminum / polyester tape with tinned copper drain wire to provide 100% coverage over the twisted pair, covered with a polyester tape.

### 4. JACKET

Flame-retardant thermoplastic polyvinyl chloride (PVC) is applied over the cable core (covered with a polyester separator tape) and complies with Type T polyvinyl chloride as required in IEEE 45 (1998) and UL 1309/CSA 245.

## RATINGS

Meets all test requirements of IEEE 45 (1998), IEEE 1580 (2001), UL 1309/CSA 245 (1995) First Edition and the Flame Test in IEC 60332-3, Category A.

## APPROVALS

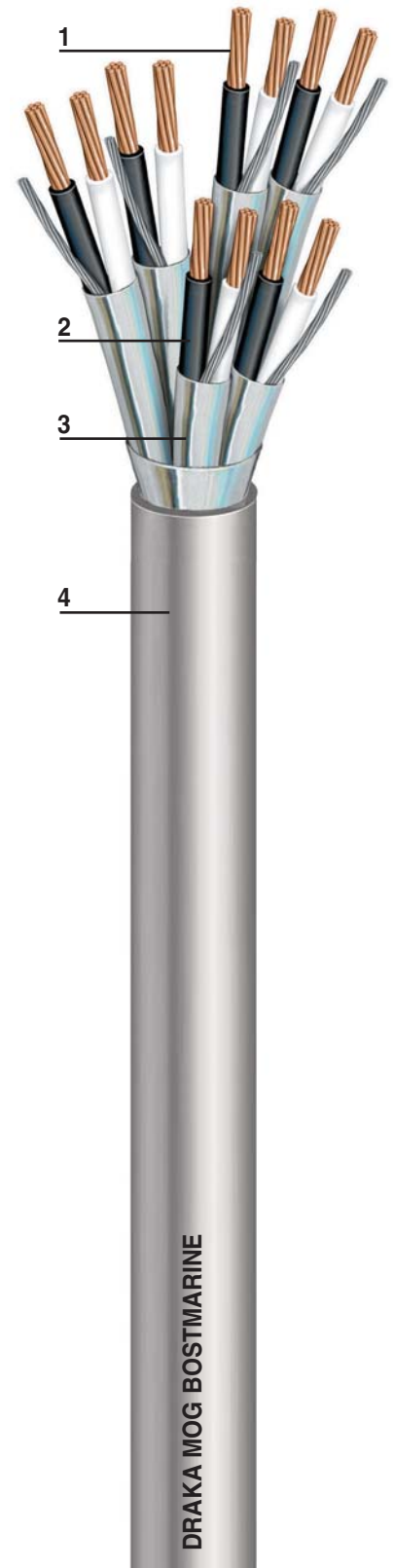
ETL/Intertek Testing Services Listed as Marine Shipboard Cable in accordance with IEEE 45 (1998), IEEE 1580 (2001), UL 1309/CSA245.

American Bureau of Shipping Type Approval Certificate No. 04-PA496819-X.

Lloyds Registry of Shipping Type Approval Certificate No. 99/60004/E1.

Transport Canada Approved cables are available.

Manufactured to Draka Cableteq USA Specifying Standard J-510



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TPC Cable Type	Part Number	Number of Pairs	Stranding Type	Insulation Thickness in • mm	Jacket Thickness in • mm	Cable Diameter (nominal) in • mm	Cable Weight (approximate) Lbs/mft • Kg/km
TP20(IS)T/NT-1	030190	1	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.25 • 6.3	33 • 49
TP20(IS-OS)T/NT-2	030193	2	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.36 • 9.1	61 • 91
TP20(IS-OS)T/NT-3	030194	3	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.38 • 9.7	80 • 119
TP20(IS-OS)T/NT-4	030195	4	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.41 • 10.5	99 • 147
TP20(IS-OS)T/NT-5	036154	5	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.45 • 11.5	118 • 175
TP20(IS-OS)T/NT-6	036155	6	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.49 • 12.5	137 • 204
TP20(IS-OS)T/NT-7	036156	7	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.49 • 12.5	153 • 228
TP20(IS-OS)T/NT-8	036157	8	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.56 • 14.3	186 • 277
TP20(IS-OS)T/NT-9	036158	9	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.61 • 15.4	211 • 314
TP20(IS-OS)T/NT-10	029501	10	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.66 • 16.7	229 • 341
TP20(IS-OS)T/NT-11	036159	11	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.68 • 17.2	245 • 365
TP20(IS-OS)T/NT-12	030191	12	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.68 • 17.2	267 • 397
TP20(IS-OS)T/NT-13	036161	13	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.71 • 18.1	287 • 427
TP20(IS-OS)T/NT-14	036162	14	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.71 • 18.1	303 • 450
TP20(IS-OS)T/NT-15	036163	15	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.75 • 19.1	323 • 481
TP20(IS-OS)T/NT-16	036164	16	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.75 • 19.1	339 • 504
TP20(IS-OS)T/NT-17	036165	17	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.79 • 20.2	360 • 535
TP20(IS-OS)T/NT-18	036166	18	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.79 • 20.2	375 • 559
TP20(IS-OS)T/NT-19	036167	19	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.79 • 20.2	391 • 582
TP20(IS-OS)T/NT-20	036168	20	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.080 • 2.03	0.88 • 22.2	447 • 665
TP20(IS-OS)T/NT-21	036169	21	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.080 • 2.03	0.88 • 22.2	463 • 689
TP20(IS-OS)T/NT-22	036170	22	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.080 • 2.03	0.92 • 23.3	485 • 722

indiv. & overall shielded twisted pair / aluminum or bronze armored  
20 AWG • 0.52 mm<sup>2</sup> / 300V

TPC Cable Type	Part Number*	Number of Pairs	Stranding Type	Insulation Thickness in • mm	Jacket Thickness in • mm	Armored Cable Diameter in • mm	Aluminum arm. Cable Weight Lbs/mft • Kg/km	Bronze arm. Cable Weight Lbs/mft • Kg/km
TP20(IS)T/NT-1	030190*	1	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.30 • 7.6	49 • 73	86 • 128
TP20(IS-OS)T/NT-2	030193*	2	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.41 • 10.4	83 • 135	135 • 201
TP20(IS-OS)T/NT-3	030194*	3	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.43 • 10.9	103 • 153	158 • 235
TP20(IS-OS)T/NT-4	030195*	4	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.46 • 11.7	124 • 185	182 • 271
TP20(IS-OS)T/NT-5	036154*	5	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.50 • 12.7	145 • 216	209 • 311
TP20(IS-OS)T/NT-6	036155*	6	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.54 • 13.7	167 • 248	236 • 351
TP20(IS-OS)T/NT-7	036156*	7	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.045 • 1.14	0.54 • 13.7	183 • 272	252 • 375
TP20(IS-OS)T/NT-8	036157*	8	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.61 • 15.5	220 • 327	298 • 443
TP20(IS-OS)T/NT-9	036158*	9	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.66 • 15.4	248 • 369	332 • 494
TP20(IS-OS)T/NT-10	029501*	10	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.71 • 18.0	269 • 400	360 • 536
TP20(IS-OS)T/NT-11	036159*	11	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.73 • 18.5	286 • 426	380 • 565
TP20(IS-OS)T/NT-12	030191*	12	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.73 • 18.5	308 • 458	402 • 598
TP20(IS-OS)T/NT-13	036161*	13	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.76 • 19.3	329 • 490	427 • 635
TP20(IS-OS)T/NT-14	036162*	14	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.76 • 19.3	345 • 513	443 • 695
TP20(IS-OS)T/NT-15	036163*	15	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.80 • 20.3	368 • 548	471 • 701
TP20(IS-OS)T/NT-16	036164*	16	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.80 • 20.3	384 • 571	487 • 725
TP20(IS-OS)T/NT-17	036165*	17	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.84 • 21.3	407 • 606	515 • 766
TP20(IS-OS)T/NT-18	036166*	18	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.84 • 21.3	422 • 628	530 • 789
TP20(IS-OS)T/NT-19	036167*	19	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.060 • 1.52	0.84 • 21.3	438 • 652	546 • 812
TP20(IS-OS)T/NT-20	036168*	20	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.080 • 2.03	0.93 • 23.6	499 • 743	620 • 923
TP20(IS-OS)T/NT-21	036169*	21	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.080 • 2.03	0.93 • 22.2	515 • 766	636 • 946
TP20(IS-OS)T/NT-22	036170*	22	7/12.1	0.015 / 0.004 • 0.38 / 0.10	0.080 • 2.03	0.97 • 23.3	539 • 802	665 • 990

\*NOTE: For aluminum armored versions, add an A (ex. 030103A). For bronze armored versions, add a B (ex. 036150B).

This information is provided for reference only, please consult the factory or your representative to confirm all engineering information.

This information is not meant to replace the information in the appropriate and applicable standard or code.

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CustRef TN-10