



# BOSTMARINE TYPE X SIGNAL CABLE

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

## APPLICATIONS

BOSTMARINE Type X 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/CSA 245 for 300 volts. Type X 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 X thermosetting cross-linked polyethylene meeting specifications IEEE 45 (1998), IEEE-1580 (2001) and UL 1309/CSA 245. Insulated conductors are rated VW1. Thickness as shown in tables on the reverse.

### 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), IEEE 1580 (2001) 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

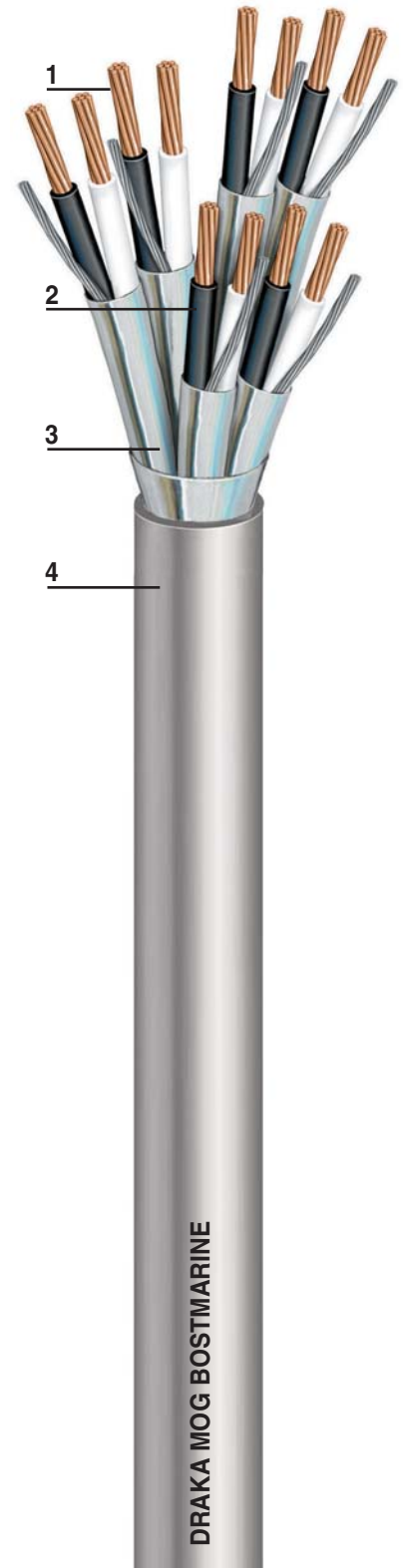
ETL/Intertek Testing Services Listed as Marine Shipboard Cable in accordance with IEEE 45 (1998), IEEE 1580 (2001), UL 1309/CSA 245 and the performance requirements of IEC 60092-3 for 0.6/1 kV.

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

Lloyds Registry of Shipping Type Approval Certificate No. 96/60031(E2).

Transport Canada Approved cables are available.

Manufactured to Draka Cableteq USA Specifying Standard J-511



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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)XT-1	036602	1	7/12.1	0.025 • 0.64	0.045 • 1.14	0.28 • 7.1	36 • 54
TP20(IS-OS)XT-2	036603	2	7/12.1	0.025 • 0.64	0.045 • 1.14	0.41 • 10.4	64 • 95
TP20(IS-OS)XT-3	036604	3	7/12.1	0.025 • 0.64	0.045 • 1.14	0.43 • 10.9	80 • 119
TP20(IS-OS)XT-4	036605	4	7/12.1	0.025 • 0.64	0.045 • 1.14	0.48 • 12.2	97 • 144
TP20(IS-OS)XT-5	036606	5	7/12.1	0.025 • 0.64	0.060 • 1.52	0.55 • 14.0	132 • 196
TP20(IS-OS)XT-6	036607	6	7/12.1	0.025 • 0.64	0.060 • 1.52	0.60 • 15.2	152 • 226
TP20(IS-OS)XT-7	036608	7	7/12.1	0.025 • 0.64	0.060 • 1.52	0.60 • 15.2	164 • 244
TP20(IS-OS)XT-8	036609	8	7/12.1	0.025 • 0.64	0.060 • 1.52	0.65 • 16.5	185 • 275
TP20(IS-OS)XT-9	036610	9	7/12.1	0.025 • 0.64	0.060 • 1.52	0.69 • 17.5	204 • 303
TP20(IS-OS)XT-10	036611	10	7/12.1	0.025 • 0.64	0.060 • 1.52	0.75 • 19.1	226 • 336
TP20(IS-OS)XT-11	036612	11	7/12.1	0.025 • 0.64	0.060 • 1.52	0.78 • 19.8	242 • 360
TP20(IS-OS)XT-12	036613	12	7/12.1	0.025 • 0.64	0.060 • 1.52	0.78 • 19.8	256 • 381
TP20(IS-OS)XT-13	036614	13	7/12.1	0.025 • 0.64	0.060 • 1.52	0.82 • 20.8	275 • 409
TP20(IS-OS)XT-14	036615	14	7/12.1	0.025 • 0.64	0.060 • 1.52	0.82 • 20.8	289 • 430
TP20(IS-OS)XT-15	036616	15	7/12.1	0.025 • 0.64	0.080 • 2.03	0.90 • 22.9	346 • 515
TP20(IS-OS)XT-16	036617	16	7/12.1	0.025 • 0.64	0.080 • 2.03	0.90 • 22.9	359 • 534
TP20(IS-OS)XT-17	036618	17	7/12.1	0.025 • 0.64	0.080 • 2.03	0.95 • 24.1	381 • 566
TP20(IS-OS)XT-18	036619	18	7/12.1	0.025 • 0.64	0.080 • 2.03	0.95 • 24.1	395 • 587
TP20(IS-OS)XT-19	036620	19	7/12.1	0.025 • 0.64	0.080 • 2.03	0.95 • 24.1	408 • 608
TP20(IS-OS)XT-20	036621	20	7/12.1	0.025 • 0.64	0.080 • 2.03	0.99 • 25.1	429 • 638
TP20(IS-OS)XT-21	036622	21	7/12.1	0.025 • 0.64	0.080 • 2.03	0.99 • 25.1	444 • 661
TP20(IS-OS)XT-22	036623	22	7/12.1	0.025 • 0.64	0.080 • 2.03	1.04 • 26.4	466 • 694

indiv. & overall shielded twisted pair / aluminum or bronze armored  
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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)XT-1	036602*	1	7/12.1	0.025 • 0.64	0.045 • 1.14	0.335 • 8.5	54 • 80	95 • 141
TP20(IS-OS)XT-2	036603*	2	7/12.1	0.025 • 0.64	0.045 • 1.14	0.465 • 11.8	89 • 132	147 • 219
TP20(IS-OS)XT-3	036604*	3	7/12.1	0.025 • 0.64	0.045 • 1.14	0.485 • 12.3	106 • 158	167 • 248
TP20(IS-OS)XT-4	036605*	4	7/12.1	0.025 • 0.64	0.045 • 1.14	0.535 • 13.6	126 • 187	194 • 289
TP20(IS-OS)XT-5	036606*	5	7/12.1	0.025 • 0.64	0.060 • 1.52	0.605 • 15.4	165 • 246	242 • 360
TP20(IS-OS)XT-6	036607*	6	7/12.1	0.025 • 0.64	0.060 • 1.52	0.655 • 16.6	188 • 280	271 • 403
TP20(IS-OS)XT-7	036608*	7	7/12.1	0.025 • 0.64	0.060 • 1.52	0.655 • 16.6	200 • 298	283 • 421
TP20(IS-OS)XT-8	036609*	8	7/12.1	0.025 • 0.64	0.060 • 1.52	0.705 • 17.9	224 • 333	314 • 467
TP20(IS-OS)XT-9	036610*	9	7/12.1	0.025 • 0.64	0.060 • 1.52	0.745 • 18.9	245 • 365	340 • 506
TP20(IS-OS)XT-10	036611*	10	7/12.1	0.025 • 0.64	0.060 • 1.52	0.805 • 20.4	271 • 403	374 • 556
TP20(IS-OS)XT-11	036612*	11	7/12.1	0.025 • 0.64	0.060 • 1.52	0.835 • 21.2	288 • 429	396 • 589
TP20(IS-OS)XT-12	036613*	12	7/12.1	0.025 • 0.64	0.060 • 1.52	0.835 • 21.2	302 • 449	410 • 610
TP20(IS-OS)XT-13	036614*	13	7/12.1	0.025 • 0.64	0.060 • 1.52	0.875 • 22.2	324 • 482	436 • 649
TP20(IS-OS)XT-14	036615*	14	7/12.1	0.025 • 0.64	0.060 • 1.52	0.875 • 22.2	338 • 503	450 • 670
TP20(IS-OS)XT-15	036616*	15	7/12.1	0.025 • 0.64	0.080 • 2.03	0.955 • 24.3	399 • 594	522 • 777
TP20(IS-OS)XT-16	036617*	16	7/12.1	0.025 • 0.64	0.080 • 2.03	0.955 • 24.3	412 • 613	535 • 796
TP20(IS-OS)XT-17	036618*	17	7/12.1	0.025 • 0.64	0.080 • 2.03	1.005 • 25.5	437 • 650	567 • 844
TP20(IS-OS)XT-18	036619*	18	7/12.1	0.025 • 0.64	0.080 • 2.03	1.005 • 25.5	451 • 671	584 • 869
TP20(IS-OS)XT-19	036620*	19	7/12.1	0.025 • 0.64	0.080 • 2.03	1.005 • 25.5	464 • 690	594 • 884
TP20(IS-OS)XT-20	036621*	20	7/12.1	0.025 • 0.64	0.080 • 2.03	1.045 • 26.5	487 • 725	622 • 926
TP20(IS-OS)XT-21	036622*	21	7/12.1	0.025 • 0.64	0.080 • 2.03	1.045 • 26.5	502 • 747	637 • 948
TP20(IS-OS)XT-22	036623*	22	7/12.1	0.025 • 0.64	0.080 • 2.03	1.095 • 27.8	527 • 784	669 • 995

\*NOTE: For aluminum armored versions, add an A (ex. 036602A). For bronze armored versions, add a B (ex. 036602B).

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.