

# BOSTMARINE TYPE LSX SIGNAL CABLE

indiv. and overall STP / LSZH / unarmored & armored  
 16 AWG • 1.31 mm<sup>2</sup> / 600V



## APPLICATIONS

BOSTMARINE Type LSX 600 volt cables are suitable for use in commercial marine applications where low smoke/zero halogen 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 600 volts. Type LSX cables are approved by ABS.

**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. CONDUCTOR

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

### 2. INSULATION

Bostmarine Type LSX thermosetting low smoke cross-linked polyethylene meeting specifications IEEE 45 (1998), IEEE-1580 (2001), UL 1309 X90 and J-512. 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 low smoke polyolefin is applied over the cable core (covered with a polyester separator tape) and complies with Type TPO thermoplastic low smoke polyolefin as required in IEEE 45 (1998) and UL 1309 Type TPE.

## RATINGS

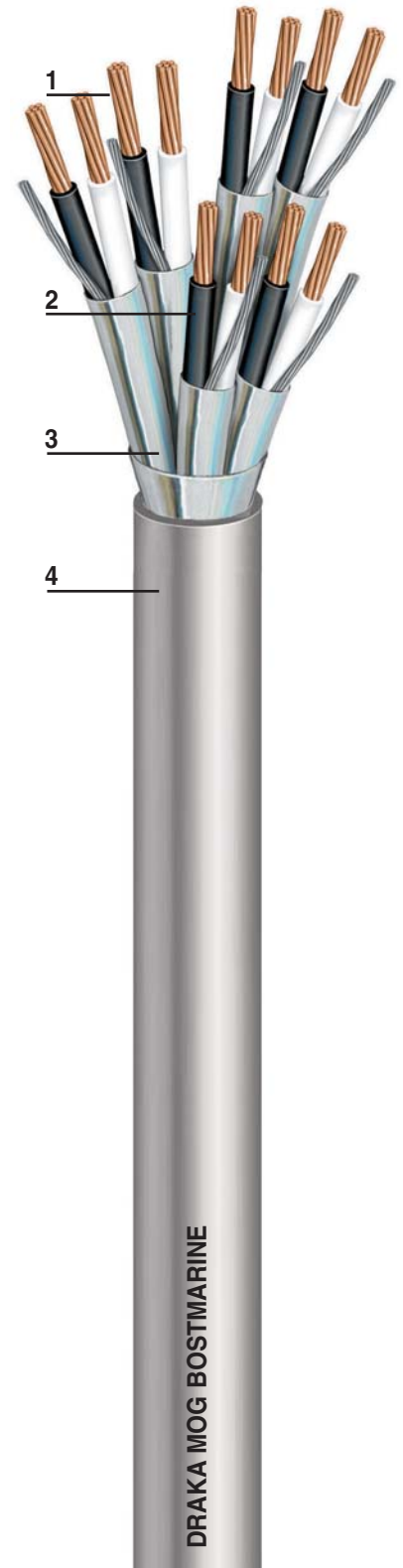
Meets all test requirements of IEEE 45 (1998), IEEE 1580 (2001), UL 1309/CSA 245 (1995) First Edition and the Flame Test in IEC 60332-3, Category A.

## 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 Approval Certificate No. B315003-X.

Manufactured to Draka Cableteq USA Specifying Standard J-512



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16 AWG • 1.31 mm<sup>2</sup> / 600V

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
TP16(IS)LSXTPO-1	036435	1	7/19.2	0.025 • 0.64	0.045 • 1.14	0.32 • 8.1	56 • 83
TP16(IS-OS)LSXTPO-2	036436	2	7/19.2	0.025 • 0.64	0.045 • 1.14	0.50 • 12.7	104 • 155
TP16(IS-OS)LSXTPO-3	036437	3	7/19.2	0.025 • 0.64	0.060 • 1.52	0.56 • 14.2	153 • 228
TP16(IS-OS)LSXTPO-4	036438	4	7/19.2	0.025 • 0.64	0.060 • 1.52	0.61 • 15.5	190 • 283
TP16(IS-OS)LSXTPO-5	036439	5	7/19.2	0.025 • 0.64	0.060 • 1.52	0.67 • 17.0	227 • 338
TP16(IS-OS)LSXTPO-6	036440	6	7/19.2	0.025 • 0.64	0.060 • 1.52	0.73 • 18.5	265 • 394
TP16(IS-OS)LSXTPO-7	036441	7	7/19.2	0.025 • 0.64	0.060 • 1.52	0.73 • 18.5	295 • 439
TP16(IS-OS)LSXTPO-8	036442	8	7/19.2	0.025 • 0.64	0.060 • 1.52	0.79 • 20.1	332 • 494
TP16(IS-OS)LSXTPO-9	036443	9	7/19.2	0.025 • 0.64	0.080 • 2.03	0.89 • 22.6	370 • 551
TP16(IS-OS)LSXTPO-10	036444	10	7/19.2	0.025 • 0.64	0.080 • 2.03	0.97 • 24.6	449 • 668
TP16(IS-OS)LSXTPO-11	036445	11	7/19.2	0.025 • 0.64	0.080 • 2.03	0.99 • 25.1	487 • 724
TP16(IS-OS)LSXTPO-12	036446	12	7/19.2	0.025 • 0.64	0.080 • 2.03	0.99 • 25.1	516 • 768
TP16(IS-OS)LSXTPO-13	036447	13	7/19.2	0.025 • 0.64	0.080 • 2.03	1.04 • 26.4	555 • 826
TP16(IS-OS)LSXTPO-14	036448	14	7/19.2	0.025 • 0.64	0.080 • 2.03	1.04 • 26.4	585 • 870
TP16(IS-OS)LSXTPO-15	036449	15	7/19.2	0.025 • 0.64	0.080 • 2.03	1.10 • 27.9	621 • 924
TP16(IS-OS)LSXTPO-16	036450	16	7/19.2	0.025 • 0.64	0.080 • 2.03	1.10 • 27.9	654 • 974
TP16(IS-OS)LSXTPO-17	036451	17	7/19.2	0.025 • 0.64	0.080 • 2.03	1.15 • 29.2	694 • 1033
TP16(IS-OS)LSXTPO-18	036452	18	7/19.2	0.025 • 0.64	0.080 • 2.03	1.15 • 29.2	724 • 1078
TP16(IS-OS)LSXTPO-19	036453	19	7/19.2	0.025 • 0.64	0.080 • 2.03	1.15 • 29.2	754 • 1122
TP16(IS-OS)LSXTPO-20	036454	20	7/19.2	0.025 • 0.64	0.080 • 2.03	1.21 • 30.7	790 • 1176
TP16(IS-OS)LSXTPO-21	036455	21	7/19.2	0.025 • 0.64	0.080 • 2.03	1.21 • 30.7	824 • 1226
TP16(IS-OS)LSXTPO-22	036456	22	7/19.2	0.025 • 0.64	0.080 • 2.03	1.28 • 32.5	865 • 1287

indiv. and overall STP / LSZH / aluminum and bronze armored  
16 AWG • 1.31 mm<sup>2</sup> / 600V

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
TP16(IS)LSXTPO-1	036435*	1	7/19.2	0.025 • 0.64	0.045 • 1.14	0.375 • 9.5	76 • 113	122 • 182
TP16(IS-OS)LSXTPO-2	036436*	2	7/19.2	0.025 • 0.64	0.045 • 1.14	0.555 • 14.1	134 • 199	204 • 304
TP16(IS-OS)LSXTPO-3	036437*	3	7/19.2	0.025 • 0.64	0.060 • 1.52	0.615 • 15.6	187 • 278	265 • 394
TP16(IS-OS)LSXTPO-4	036438*	4	7/19.2	0.025 • 0.64	0.060 • 1.52	0.665 • 16.9	227 • 338	311 • 463
TP16(IS-OS)LSXTPO-5	036439*	5	7/19.2	0.025 • 0.64	0.060 • 1.52	0.725 • 18.4	267 • 397	360 • 534
TP16(IS-OS)LSXTPO-6	036440*	6	7/19.2	0.025 • 0.64	0.060 • 1.52	0.785 • 19.9	309 • 460	409 • 609
TP16(IS-OS)LSXTPO-7	036441*	7	7/19.2	0.025 • 0.64	0.060 • 1.52	0.785 • 19.9	339 • 504	439 • 653
TP16(IS-OS)LSXTPO-8	036442*	8	7/19.2	0.025 • 0.64	0.060 • 1.52	0.845 • 21.4	379 • 564	487 • 725
TP16(IS-OS)LSXTPO-9	036443*	9	7/19.2	0.025 • 0.64	0.080 • 2.03	0.945 • 24.0	423 • 629	544 • 809
TP16(IS-OS)LSXTPO-10	036444*	10	7/19.2	0.025 • 0.64	0.080 • 2.03	1.025 • 26.0	506 • 753	639 • 951
TP16(IS-OS)LSXTPO-11	036445*	11	7/19.2	0.025 • 0.64	0.080 • 2.03	1.045 • 26.5	545 • 811	680 • 1012
TP16(IS-OS)LSXTPO-12	036446*	12	7/19.2	0.025 • 0.64	0.080 • 2.03	1.045 • 26.5	574 • 854	709 • 1055
TP16(IS-OS)LSXTPO-13	036447*	13	7/19.2	0.025 • 0.64	0.080 • 2.03	1.095 • 27.8	616 • 917	758 • 1128
TP16(IS-OS)LSXTPO-14	036448*	14	7/19.2	0.025 • 0.64	0.080 • 2.03	1.095 • 27.8	646 • 961	788 • 1173
TP16(IS-OS)LSXTPO-15	036449*	15	7/19.2	0.025 • 0.64	0.080 • 2.03	1.155 • 29.3	686 • 1021	835 • 1242
TP16(IS-OS)LSXTPO-16	036450*	16	7/19.2	0.025 • 0.64	0.080 • 2.03	1.155 • 29.3	719 • 1070	868 • 1292
TP16(IS-OS)LSXTPO-17	036451*	17	7/19.2	0.025 • 0.64	0.080 • 2.03	1.205 • 24.2	762 • 1134	918 • 1366
TP16(IS-OS)LSXTPO-18	036452*	18	7/19.2	0.025 • 0.64	0.080 • 2.03	1.205 • 24.2	792 • 1178	948 • 1411
TP16(IS-OS)LSXTPO-19	036453*	19	7/19.2	0.025 • 0.64	0.080 • 2.03	1.205 • 24.2	822 • 1123	978 • 1455
TP16(IS-OS)LSXTPO-20	036454*	20	7/19.2	0.025 • 0.64	0.080 • 2.03	1.265 • 32.1	861 • 1281	1025 • 1525
TP16(IS-OS)LSXTPO-21	036455*	21	7/19.2	0.025 • 0.64	0.080 • 2.03	1.265 • 32.1	895 • 1332	1059 • 1576
TP16(IS-OS)LSXTPO-22	036456*	22	7/19.2	0.025 • 0.64	0.080 • 2.03	1.335 • 33.9	940 • 1399	1113 • 1656

\*NOTE: For aluminum armored versions, add an A (ex. 036435A). For bronze armored versions, add a B (ex. 036435B).

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.