

BOSTMARINE TYPE LSX SIGNAL CABLE

indiv. and overall STP signal / LSZH / unarmored & armored
 18 AWG • 0.82 mm² / 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

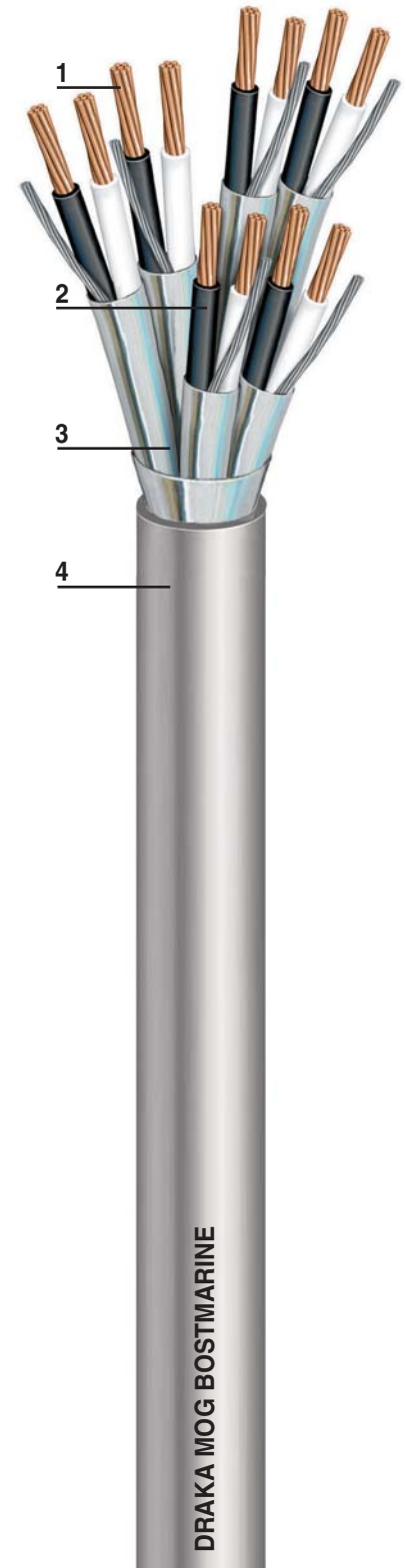
Meets all test requirements of IEEE 45 (1998), IEEE 1580 (2001), UL 1309/CSA 245 (1995) First Edition and the Flame Test in IEC 60332-3, Category A.

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 BIW Specifying Standard J512



BOSTMARINE TYPE LSX SIGNAL CABLE



indiv. and overall STP signal / LSZH / unarmored
18 AWG • 0.82 mm² / 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
TP18(IS)LSXTPO-1	036413	1	7/15.2	0.025 • 0.64	0.045 • 1.14	0.30 • 7.6	46 • 68
TP18(IS-OS)LSXTPO-2	036414	2	7/15.2	0.025 • 0.64	0.045 • 1.14	0.45 • 11.4	85 • 126
TP18(IS-OS)LSXTPO-3	036415	3	7/15.2	0.025 • 0.64	0.045 • 1.14	0.48 • 12.2	109 • 162
TP18(IS-OS)LSXTPO-4	036416	4	7/15.2	0.025 • 0.64	0.060 • 1.52	0.59 • 15.0	153 • 228
TP18(IS-OS)LSXTPO-5	036417	5	7/15.2	0.025 • 0.64	0.060 • 1.52	0.61 • 15.5	182 • 271
TP18(IS-OS)LSXTPO-6	036418	6	7/15.2	0.025 • 0.64	0.060 • 1.52	0.66 • 16.8	211 • 314
TP18(IS-OS)LSXTPO-7	036419	7	7/15.2	0.025 • 0.64	0.060 • 1.52	0.66 • 16.8	232 • 346
TP18(IS-OS)LSXTPO-8	036420	8	7/15.2	0.025 • 0.64	0.060 • 1.52	0.72 • 18.3	262 • 390
TP18(IS-OS)LSXTPO-9	036421	9	7/15.2	0.025 • 0.64	0.060 • 1.52	0.78 • 19.8	290 • 432
TP18(IS-OS)LSXTPO-10	036422	10	7/15.2	0.025 • 0.64	0.080 • 2.03	0.89 • 22.6	359 • 534
TP18(IS-OS)LSXTPO-11	036423	11	7/15.2	0.025 • 0.64	0.080 • 2.03	0.91 • 23.1	346 • 516
TP18(IS-OS)LSXTPO-12	036424	12	7/15.2	0.025 • 0.64	0.080 • 2.03	0.91 • 23.1	368 • 548
TP18(IS-OS)LSXTPO-13	036425	13	7/15.2	0.025 • 0.64	0.080 • 2.03	0.96 • 24.4	438 • 652
TP18(IS-OS)LSXTPO-14	036426	14	7/15.2	0.025 • 0.64	0.080 • 2.03	0.96 • 24.4	459 • 684
TP18(IS-OS)LSXTPO-15	036427	15	7/15.2	0.025 • 0.64	0.080 • 2.03	1.01 • 25.7	490 • 729
TP18(IS-OS)LSXTPO-16	036428	16	7/15.2	0.025 • 0.64	0.080 • 2.03	1.01 • 25.7	512 • 762
TP18(IS-OS)LSXTPO-17	036429	17	7/15.2	0.025 • 0.64	0.080 • 2.03	1.06 • 26.9	543 • 808
TP18(IS-OS)LSXTPO-18	036430	18	7/15.2	0.025 • 0.64	0.080 • 2.03	1.06 • 26.9	565 • 840
TP18(IS-OS)LSXTPO-19	036431	19	7/15.2	0.025 • 0.64	0.080 • 2.03	1.06 • 26.9	586 • 872
TP18(IS-OS)LSXTPO-20	036432	20	7/15.2	0.025 • 0.64	0.080 • 2.03	1.11 • 28.2	619 • 921
TP18(IS-OS)LSXTPO-21	036433	21	7/15.2	0.025 • 0.64	0.080 • 2.03	1.11 • 28.2	639 • 951
TP18(IS-OS)LSXTPO-22	036434	22	7/15.2	0.025 • 0.64	0.080 • 2.03	1.16 • 29.5	671 • 998

indiv. and overall STP signal / LSZH / aluminum and bronze armored
18 AWG • 0.82 mm² / 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
TP18(IS)LSXTPO-1	036413*	1	7/15.2	0.025 • 0.64	0.045 • 1.14	0.355 • 9.0	65 • 97	108 • 161
TP18(IS-OS)LSXTPO-2	036414*	2	7/15.2	0.025 • 0.64	0.045 • 1.14	0.455 • 11.6	112 • 167	176 • 262
TP18(IS-OS)LSXTPO-3	036415*	3	7/15.2	0.025 • 0.64	0.045 • 1.14	0.535 • 13.6	138 • 205	206 • 307
TP18(IS-OS)LSXTPO-4	036416*	4	7/15.2	0.025 • 0.64	0.060 • 1.52	0.645 • 16.4	188 • 280	271 • 403
TP18(IS-OS)LSXTPO-5	036417*	5	7/15.2	0.025 • 0.64	0.060 • 1.52	0.665 • 16.9	219 • 326	303 • 451
TP18(IS-OS)LSXTPO-6	036418*	6	7/15.2	0.025 • 0.64	0.060 • 1.52	0.715 • 18.2	251 • 373	342 • 509
TP18(IS-OS)LSXTPO-7	036419*	7	7/15.2	0.025 • 0.64	0.060 • 1.52	0.715 • 18.2	272 • 405	363 • 540
TP18(IS-OS)LSXTPO-8	036420*	8	7/15.2	0.025 • 0.64	0.060 • 1.52	0.775 • 19.7	305 • 454	404 • 601
TP18(IS-OS)LSXTPO-9	036421*	9	7/15.2	0.025 • 0.64	0.060 • 1.52	0.835 • 21.2	336 • 500	444 • 661
TP18(IS-OS)LSXTPO-10	036422*	10	7/15.2	0.025 • 0.64	0.080 • 2.03	0.945 • 24.0	400 • 595	524 • 780
TP18(IS-OS)LSXTPO-11	036423*	11	7/15.2	0.025 • 0.64	0.080 • 2.03	0.965 • 24.5	412 • 613	533 • 793
TP18(IS-OS)LSXTPO-12	036424*	12	7/15.2	0.025 • 0.64	0.080 • 2.03	0.965 • 24.5	422 • 628	546 • 812
TP18(IS-OS)LSXTPO-13	036425*	13	7/15.2	0.025 • 0.64	0.080 • 2.03	1.015 • 25.8	495 • 737	626 • 931
TP18(IS-OS)LSXTPO-14	036426*	14	7/15.2	0.025 • 0.64	0.080 • 2.03	1.015 • 25.8	516 • 768	647 • 963
TP18(IS-OS)LSXTPO-15	036427*	15	7/15.2	0.025 • 0.64	0.080 • 2.03	1.065 • 27.1	550 • 818	687 • 1022
TP18(IS-OS)LSXTPO-16	036428*	16	7/15.2	0.025 • 0.64	0.080 • 2.03	1.065 • 27.1	572 • 851	709 • 1055
TP18(IS-OS)LSXTPO-17	036429*	17	7/15.2	0.025 • 0.64	0.080 • 2.03	1.115 • 28.3	605 • 900	750 • 1116
TP18(IS-OS)LSXTPO-18	036430*	18	7/15.2	0.025 • 0.64	0.080 • 2.03	1.115 • 28.3	627 • 933	772 • 1149
TP18(IS-OS)LSXTPO-19	036431*	19	7/15.2	0.025 • 0.64	0.080 • 2.03	1.115 • 28.3	648 • 964	793 • 1180
TP18(IS-OS)LSXTPO-20	036432*	20	7/15.2	0.025 • 0.64	0.080 • 2.03	1.165 • 29.6	684 • 1018	835 • 1242
TP18(IS-OS)LSXTPO-21	036433*	21	7/15.2	0.025 • 0.64	0.080 • 2.03	1.165 • 29.6	704 • 1048	855 • 1272
TP18(IS-OS)LSXTPO-22	036434*	22	7/15.2	0.025 • 0.64	0.080 • 2.03	1.215 • 30.9	739 • 1100	897 • 1335

*NOTE: For aluminum armored versions, add an A (ex. 036391A). For bronze armored versions, add a B (ex. 036391B).

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.