



**MIL-DTL-24640 LIGHT WEIGHT  
 NAVY SHIPBOARD CABLE**

**Electronic, Communication, and Instrumentation Cable,  
 for use in Non-watertight, Non-flexing Service**

**CONSTRUCTION DETAILS:**

**CONDUCTOR:** 19 Strand tinned copper (non-watertight)  
**INSULATION:** Extruded composite insulation of crosslinked polyalkene and crosslinked polyvinylidene fluoride (PVDF).  
**COMPONENT SHLD:** (When applicable) Braided tinned copper offering minimum coverage of 90%.  
**OVERALL SHIELD:** (When applicable) Braided tinned copper offering minimum coverage of 90%.  
**JACKET:** Crosslinked low smoke zero halogen (LSZH) polyolefin (XLPOLYO).  
**ARMOR:** (Available upon request) Overall braid of aluminum alloy 5154 offering minimum coverage of 88%.

PART NUMBER & NAVY PIN	TYPE	OVER-ALL SHIELD	AWG	NUM. OF COMPONENTS	IDENTIFICATION		CABLE OD	CU WGT	TOT. WGT
					COLOR CODE	COLOR CODE METHOD			
M24640/4-01UN	TTX-3		20(19)TC	3 PR.	Twist Pair	6	0.31	24.1	62.1
M24640/4-02UN	TTX-15		20(19)TC	15 PR.	Twist Pair	6	0.564	120.5	221
M24640/5-01UN	TTXS-2		20(19)TC	2 SHLD PR	STD	2	0.355	27.0	74.3
M24640/5-02UN	TTXS-4		20(19)TC	4 SHLD PR	STD	2	0.409	54.0	115
M24640/5-01UO	TTXSO-2	X	20(19)TC	2 SHLD PR	STD	2	0.401	52.5	126
M24640/5-02UO	TTXSO-6	X	20(19)TC	6 SHLD PR	STD	2	0.535	128.4	219
M24640/5-03UO	TTXSO-8	X	20(19)TC	8 SHLD PR	STD	2	0.607	158.8	284
M24640/5-04UO	TTXSO-10	X	20(19)TC	10 SHLD PR	STD	2	0.665	204.2	322
M24640/6-01UO	2XAO-2	X	22(19)TC	2 PR.	Twist Pair	6	0.320	24.9	79.4
M24640/6-02UO	2XAO-7	X	22(19)TC	7 PR.	Twist Pair	6	0.4	61.0	131
M24640/6-03UO	2XAO-10	X	22(19)TC	10 PR.	Twist Pair	6	0.48	79.9	175
M24640/6-04UO	2XAO-18	X	22(19)TC	18 PR.	Twist Pair	6	0.58	125.3	263
M24640/6-05UO	2XAO-40	X	22(19)TC	40 PR.	Twist Pair	6	0.811	269.7	513
M24640/7-01UO	1XMSO-7	X	22(19)TC	7 SHLD COND	STD	2	0.362	65.9	116
M24640/7-02UO	1XMSO-16	X	22(19)TC	16 SHLD COND	STD	2	0.5	119.0	212
M24640/7-03UO	1XMSO-70	X	22(19)TC	70 SHLD COND	STD	2	0.892	503.4	735
M24640/8-01UO	MXO-10	X	20(19)TC	10 COND.	STD	1	0.363	62.0	118
M24640/8-02UO	MXO-14	X	20(19)TC	14 COND.	STD	1	0.395	80.3	147
M24640/9-01UN	2XS-2		22(19)TC	2 SHLD PR	STD	2	0.325	20.1	61.4
M24640/9-02UN	2XS-3		22(19)TC	3 SHLD PR	STD	2	0.34	30.1	74.2
M24640/9-03UN	2XS-7		22(19)TC	7 SHLD PR	STD	2	0.445	70.2	135
M24640/9-04UN	2XS-10		22(19)TC	10 SHLD PR	STD	2	0.557	100.3	194
M24640/9-05UN	2XS-14		22(19)TC	14 SHLD PR	STD	2	0.605	140.4	245



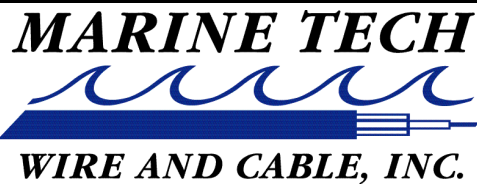
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**ARMOR:** (Available upon request) Overall braid of aluminum alloy 5154 offering minimum coverage of 88%.

PART NUMBER & NAVY PIN	TYPE	OVER-ALL SHIELD	AWG	NUM. OF COMPONENTS	IDENTIFICATION		CABLE OD	CU WGT	TOT. WGT
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M24640/9-06UN	2XS-19		22(19)TC	19 SHLD PR	STD	2	0.68	190.6	319
M24640/9-07UN	2XS-24		22(19)TC	24 SHLD PR	STD	2	0.788	240.7	431
M24640/9-08UN	2XS-30		22(19)TC	30 SHLD PR	STD	2	0.84	300.9	500
M24640/9-01UO	2XSO-3	X	22(19)TC	3 SHLD PR	STD	2	0.395	55.7	117
M24640/9-02UO	2XSO-7	X	22(19)TC	7 SHLD PR	STD	2	0.494	103.3	190
M24640/9-03UO	2XSO-10	X	22(19)TC	10 SHLD PR	STD	2	0.609	142.5	287
M24640/9-04UO	2XSO-14	X	22(19)TC	14 SHLD PR	STD	2	0.66	180.4	323
M24640/9-05UO	2XSO-19	X	22(19)TC	19 SHLD PR	STD	2	0.729	261.7	423
M24640/9-06UO	2XSO-30	X	22(19)TC	30 SHLD PR	STD	2	0.92	385.9	644
M24640/10-01UO	MXSO-2	X	16(19)TC	2 COND.	STD	1	0.293	27.0	76.4
M24640/10-02UO	MXSO-9	X	16(19)TC	9 COND.	STD	1	0.439	95.8	180
M24640/10-03UO	MXSO-21	X	16(19)TC	21 COND.	STD	1	0.567	218.8	329
M24640/10-04UO	MXSO-37	X	16(19)TC	37 COND.	STD	1	0.659	356.8	497
M24640/10-05UO	MXSOW-2	X	16(7)TC	2 COND.	STD	1	0.293	28.8	83
M24640/10-06UO	MXSOW-9	X	16(7)TC	9 COND.	STD	1	0.441	102.0	200
M24640/10-07UO	MXSOW-21	X	16(7)TC	21 COND.	STD	1	0.574	179.8	365
M24640/10-08UO	MXSOW-37	X	16(7)TC	37 COND.	STD	1	0.669	363.1	555
M24640/11-01UN	3XS-7		18(19)TC	7 SHLD TRD	STD	2	0.624	189.5	315
M24640/12-01UO	2XO-6	X	26(19)TC	6 PR.	Twist Pair	6	0.32	38.4	81.6
M24640/12-02UO	2XO-18	X	26(19)TC	18 PR.	Twist Pair	6	0.427	68.5	140
M24640/12-03UO	2XO-24	X	26(19)TC	24 PR.	Twist Pair	6	0.493	81.0	175
M24640/12-04UO	2XO-42	X	26(19)TC	42 PR.	Twist Pair	6	0.585	141.0	275
M24640/12-05UO	2XO-60	X	26(19)TC	60 PR.	Twist Pair	6	0.661	182.0	334



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M24640/12-06UO	2XO-77	X	26(19)TC	77 PR.	Twist Pair	6	0.76	217.0	395
M24640/13-01UO	2XSXO-4	X	26(19)TC	4 SHLD PR	STD	2	0.346	47.5	101

*Service and Performance through Innovation, Quality and Delivery*

Marine Tech Wire and Cable, Inc., P.O. Box 7309, York, PA 17404 . Phone: 717-854-1992 . Fax: 717-854-4189