

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

**Electronic, Communication, and Instrumentation Cable, for use in
Watertight with Circuit Integrity, Non-flexing Service**

CONSTRUCTION DETAILS:

CONDUCTOR: 7 Strand bare copper sealed for watertightness.
INSULATION: Taped composite insulation of mica/glass and polyimide.
INSULATION COATING: Polyimide resin coating.
OVERALL SHIELD: (When applicable) Braided tinned copper offering minimum coverage of 90%,
and sealed for watertightness.
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 COMPO-NENTS	IDENTIFICATION		CABLE OD	CU WGT	TOT. WGT
					COLOR CODE	COLOR CODE METHOD			
M24640/24-01UN	TTXW-1-1/2		22(7)BC	3 COND	Twist Pair	6	0.188	7.0	26
M24640/24-02UN	TTXW-3		22(7)BC	3 PR.	Twist Pair	6	0.296	14.4	62.3
M24640/24-03UN	TTXW-5		22(7)BC	5 PR.	Twist Pair	6	0.344	24.0	91
M24640/24-04UN	TTXW-10		22(7)BC	10 PR.	Twist Pair	6	0.474	47.9	172
M24640/24-05UN	TTXW-15		22(7)BC	15 PR.	Twist Pair	6	0.542	71.9	235
M24640/24-06UN	TTXW-20		22(7)BC	20 PR.	Twist Pair	6	0.597	95.8	285
M24640/24-07UN	TTXW-30		22(7)BC	30 PR.	Twist Pair	6	0.699	143.7	417
M24640/24-08UN	TTXW-40		22(7)BC	40 PR.	Twist Pair	6	0.805	191.6	544
M24640/24-01UO	TTXOW-1-1/2	X	22(7)BC	3 COND	Twist Pair	6	0.263	15.7	67.9
M24640/24-02UO	TTXOW-3	X	22(7)BC	3 PR.	Twist Pair	6	0.346	28.6	108
M24640/24-03UO	TTXOW-5	X	22(7)BC	5 PR.	Twist Pair	6	0.391	39.8	134
M24640/24-04UO	TTXOW-15	X	22(7)BC	15 PR.	Twist Pair	6	0.571	123.3	299
M24640/24-05UO	TTXOW-20	X	22(7)BC	20 PR.	Twist Pair	6	0.634	153.4	371
M24640/24-06UO	TTXOW-30	X	22(7)BC	30 PR.	Twist Pair	6	0.737	213.3	497
M24640/24-07UO	TTXOW-40	X	22(7)BC	40 PR.	Twist Pair	6	0.843	266.4	631

Service and Performance through Innovation, Quality and Delivery

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