MIL-DTL 24643/60

Non-Shielded Category 5e

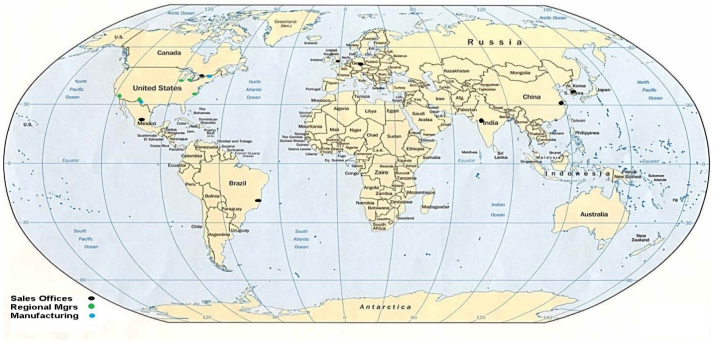
Water-Blocked and Non Water-Blocked

Champlain Cable has a long history of success in the development and manufacture of data communication cables. We are the first supplier to be qualified by the US Naval Sea Systems Command (NAVSEA) for supply of all variants of MIL-DTL 24643/60. With over 10 years of various first-QPL approvals totaling *over 25 million* feet of data cables installed on Naval vessels, no one else comes close. **Dataclear®** is the brand you can count on for Reliability, Service and Price.

Dataclear® Marine /60 cables are Low Smoke Zero Halogen (LSZH) Category 5e data cables to serve the shipboard market. Typically, these solid conductor cables are used as patch cords or where flexibility is not a driving factor. **Dataclear Marine /60** provides two major solutions for shipboard communications:

- Replacement of halogenated insulations (PVC, Fluoropolymer) in confined shipboard compartments, thereby eliminating a major source of halogenated toxic gases in the event of fire.
- Maintains exceptional main link data communication capabilities in accordance with current ANSI/TIA/EIA 568C.2 standard for Local Area Network (LAN) premise wiring.

Product Number	MIL-DTL 24643/60 Type	Pairs	Conductor	Shield	Water-blocked	Jacket Color	Cable OD (nom)
24-4UTP-LSZH/60	LSC5-4	4	24, solid BC	None	No	Black	.270"
24-4UTP-W-LSZH/60	LSC5W-4	4	24, solid BC	None	Yes	Black	.290"



MIL-DTL 24643/60
Non-Shielded
Category 5e

ELECTRICAL PROPERTIES					
DC Resistance (Ohms/100m)	9.38 max				
DC Resistance Unbalance	5% max				
Input Impedance (1 MHz – 100MHz)	100 Ohms ±15%				
Frequency	**1.0**	**10.0**	**31.25**	**62.5**	**100.0**
Return Loss dB/100m (min)	20.0	25.0	23.6	21.5	20.1
Insertion Loss dB/100m (max)	2.0	6.5	11.7	17.0	22.0
NEXT dB/100m (min)	65.3	50.3	42.9	38.4	35.3
ELFEXT dB/100m (min)	63.8	43.8	33.9	27.9	23.8
PS NEXT dB/100m (min)	62.3	47.3	39.9	35.4	32.3
PS ELFEXT dB/100m (min)	60.8	40.8	30.9	24.9	20.8
Propagation Delay ns/100m (max)	570	545	540	539	538
Delay Skew ns/100m (max)	45	45	45	45	45

PHYSICAL PROPERTIES	
Tensile Strength	
Insulation and Jacket (Un-aged)	1300 min
Insulation and Jacket (Retention after 168hrs at 136°C)	780 min
Elongation	
Insulation and Jacket (Un-aged)	160% min
Insulation and Jacket (Retention after 168hrs at 136°C)	96% min
Cross-link proof test (Jacket, Percent maximum)	50%
Flame Propagation (Cable)*	No Failure

Manufacturing Locations:

Colchester, Vermont

El Paso, Texas

www.champcable.com