

MIL-DTL-24643/61 Cat 5e Patch Cables

24AWG and 26AWG, 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 24643/59. With over 10 years of QPL approval and *over 30 million* feet installed on Naval vessels, no one else comes close. **DATACLEAR**[®] is the brand you can count on for Reliability, Service and Price.

DATACLEAR® Marine /61 patch cables are Low Smoke Zero Halogen (LSZH) Category 5e patch cables to serve the shipboard market. **DATACLEAR Marine /61** provides two major solutions for shipboard communications:

• Replacement of halogenated insulations (PVC, Fluoropolymers) in confined shipboard compartments, thereby eliminating a major source of halogenated toxic gases in the event of fire.

• Maintains exceptional patch data communication capabilities in accordance with current ANSI/TIA/EIA 568.2 standards for Local Area Network (LAN) premise wiring.

Military Part No. MIL-DTL 24643/61	Туре	Pairs	Conductor	Shield	Water- blocked	Jacket Color	Cable OD (nom)
-01UN	LSC5P-4	4	24, stranded TC	None	No	Black	.255"
-02UD	LSC5POS-4	4	24, stranded TC	Foil + Braid	No	Black	.330"
-03UD	LSC5POSR-4	4	26, stranded TC	Foil + Braid	No	Black	.255"





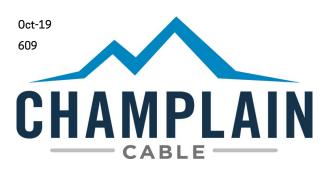


MIL-DTL-24643/61 Cat 5e Patch Cables

ELECTRICAL PROPERTIES (M-24643/61 Cat5e Patch Cable)									
DC Resistance Ohms/100m (max)	24AWG 9.38; 26AWG 14.0								
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 24AWG dB/100m (max)	2.4	7.8	14.0	20.4	26.4				
Insertion Loss 26AWG dB/100m (max)	3.0	9.8	17.6	25.5	33.0				
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 (M-24643/61)					
Tensile Strength					
Insulation / Jacket (Ib/in ² , Un-aged, min)	700/1300				
Insulation and Jacket % Retention (after 168hrs at 136°C)	75% / 60%				
Elongation					
Insulation and Jacket (Un-aged, min)	160%				
Insulation and Jacket (Retention after 168hrs at 136°C)	75% / 60%				
Cross-link proof test (Jacket, Percent maximum)	50%				
Flame Propagation (Cable)	No Failure				

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Manufacturing Locations: Colchester, Vermont El Paso, Texas www.champcable.com