



MIL-DTL 24643/75

Serial Bus Cable

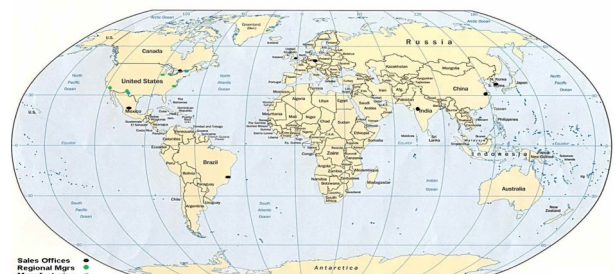
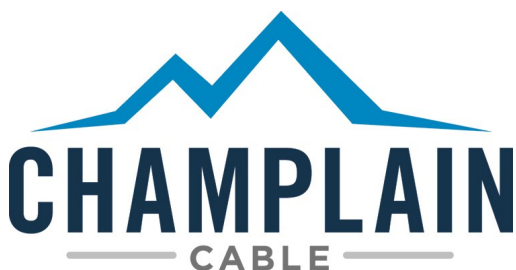
12.5 Pair, Low-Capacitance, 300V

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 this M24643/75 12.5-pair cable, and are working on the next generation 25-pair construction variant.

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.

- Highly Engineered DATACLEAR[®] LSZH Irradiation Crosslinked Polyolefin
- MIL-24643/75-01U0
- Flexible and Tough for the Rigors of Shipboard Use
- Replaces Halogenated Cables (PVC / Fluoropolymers) with LSZH Materials which Reduce Smoke and Toxicity
- For Shipboard Use to Connect Computers and Peripheral Devices
- Connects with 25-Pin Grounded Serial Interface
- 25-Pair Variant Under Development
- Custom Pair-Counts and Shielding Options available. (non-QPL) Consult Factory for Details.

Product Number	MIL-DTL 24643/75 Type	Pairs	Conductor	Shield	Jacket Color	Cable OD (nom)
M24643/75-01U0	LSLCFS-25	12 ½	24 stranded BC	Foil	Black	0.490"
QPL PENDING:						
M24643/75-02U0	LSLCFS-50	25	24 stranded BC	Foil	Black	0.530"





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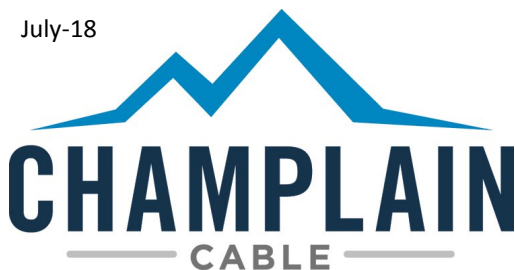
ELECTRICAL PROPERTIES	
DC Resistance, max. at 25°C	25.67 Ohms/1000ft
DC Resistance Unbalance, max	5%
Character Impedance @ 1 MHz	100 Ohms ±15%
Mutual Capacitance (max. at 1kHz)	45 pF/m
Voltage Withstand (RMS) Min Conductor to Conductor	2000
Voltage Withstand (RMS) Min Conductor to Shield	1000

COLOR CODE		
Single	White	N/A
Pair 1	Blue	White
Pair 2	Orange	White
Pair 3	Green	White
Pair 4	Brown	White
Pair 5	Gray	White
Pair 6	Red	Blue
Pair 7	Red	Orange
Pair 8	Red	Green
Pair 9	Red	Brown
Pair 10	Red	Gray
Pair 11	Black	Blue
Pair 12	Black	Orange

PHYSICAL PROPERTIES	
Tensile Strength (lb/in2 min)	
Insulation / Jacket (Un-aged)	700 / 1300 min
Insulation (Retention after 168hrs at 136°C)	75% min
Jacket (Retention after 168hrs at 136°C)	60% min
Elongation	
Insulation / Jacket (Un-aged)	150% / 160% min
Insulation (Retention after 168hrs at 136°C)	75% min
Jacket (Retention after 168hrs at 136°C)	60% min
Cross-link proof test (Jacket, Percent maximum)	50%
Flame Propagation (Cable)	No Failure

We cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product combination for their own purpose. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss and damage arising from the handling and use of our products whether used alone or in combination with other products.

July-18



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