



# MIL-DTL 24643/62 Profibus Data Cables

## Water-Blocked and Non Water-Blocked, Shielded

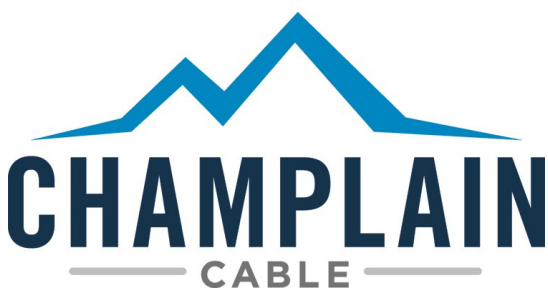
**Champlain Cable** has a long history of success in the development and manufacture of data communication cables. We are qualified by the US Naval Sea Systems Command (NAVSEA) for supply of all variants of MIL-DTL 24643/62. With over 10 years of various first-QPL approvals totaling *over 25 million* 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/62** cables are Low Smoke Zero Halogen (LSZH) data cables to serve the shipboard market. **Dataclear® Marine/62** 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 data communication capabilities in accordance with commercial Profibus protocol standards.

Product Number	MIL-DTL 24643/62 Type	Pairs	Conductor	Shield *	Water-blocked	Jacket Color	Cable OD (nom)
22-1STP-LSZH/62	LSPB2SD-1	1	22 solid BC	Single	No	Black	0.390"
22-1STP-LSZH/62-W	LSPB2SDW-1	1	22 solid BC	Single	Yes	Black	0.405"
22-1DSTP-LSZH/62	LSPB2SDOS-1	1	22 solid BC	Double	No	Black	0.500"
22-1DSTP-LSZH/62-W	LSPB2SDOSW-1	1	22 solid BC	Double	Yes	Black	0.530"

\* The drain wire has been eliminated in MIL-DTL-24643/62 Rev B





# MIL-DTL 24643/62

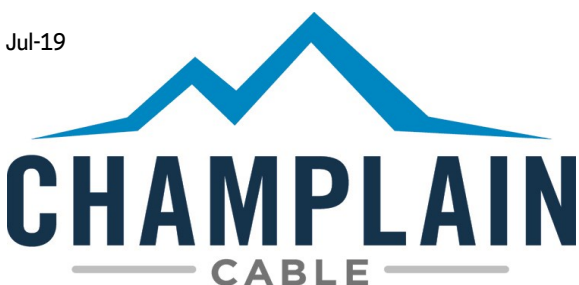
## Profibus Data Cable

ELECTRICAL PROPERTIES					
DC Resistance, max.	5.45 Ohms/100m				
DC Resistance Unbalance, max	5%				
Char. Impedance (0.2 to 20 MHz)	150 Ohms ±15%				
Mutual Capacitance (max. at 1kHz)	30 pF/100m				
<b>Frequency</b>	<b>0.2</b>	<b>4.0</b>	<b>16</b>	<b>31.25</b>	
Attenuation dB/100m (max)	1.0	2.5	5.7	7.5	

PHYSICAL PROPERTIES	
Tensile Strength	
Insulation and Jacket (Un-aged)	1300 min
Insulation (Retention after 168hrs at 136°C)	975 min
Jacket (Retention after 168hrs at 136°C)	780 min
Elongation	
Insulation and Jacket (Un-aged)	160% min
Insulation (Retention after 168hrs at 136°C)	120% min
Jacket (Retention after 168hrs at 136°C)	96% 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.

Jul-19



**Manufacturing Locations:**  
**Colchester, Vermont**  
**El Paso, Texas**  
[www.champcable.com](http://www.champcable.com)