

Introducing
Raychem MIL-DTL-24643
ZEROHAL PROFIBUS
Cables

KEY FEATURES

MIL-DTL-24643/62
qualified

Waterblocked and
non-waterblocked
constructions

Meets water tightness
requirements when tested
with ASTM D1411 synthetic
sea water solution

Suitable for transmission
rates up to 12 megabits
per second (Mbits/S)

Compatible with commer-
cially available PROFIBUS
connectors

DESCRIPTION

MIL-DTL-24643 has been the governing specification for low smoke, zero halogen insulated and jacketed shipboard cables used by the United States Navy and other military marine applications.

Tyco Electronics RAYCHEM brand ZEROHAL cables meeting the PROFIBUS standard as described in MIL-DTL-24643/62, are qualified to meet the rigorous requirements to flame, smoke emissions, halogen content and severe water-blocking requirements.

APPLICATIONS

Cables are used in communications, machinery control monitoring and instrumentation for:

- Military vessels - MIL-DTL-24643/62
- Cruise ships
- Freighters
- Tankers
- Industrial Automation

ELECTRICAL

150 ohm impedance

Transmission rates up to 12 Mbits/s

Attenuation (dB/100m maximum)

2 MHz:	1.0 dB
4 MHz:	2.5 dB
16 MHz:	5.0 dB
100 MHz:	13.5 dB
300 MHz:	24.0 dB

MATERIALS

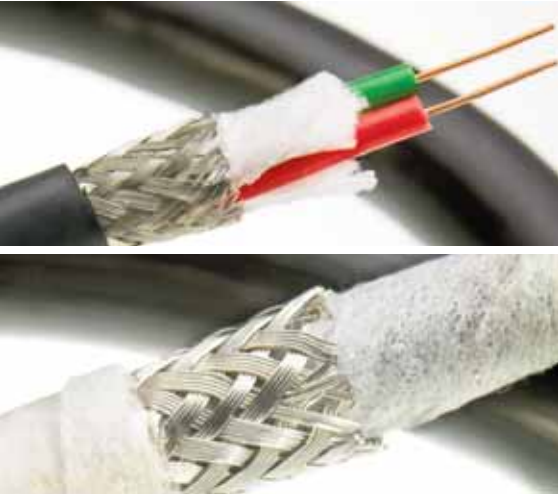
Foamed polyethylene components

Low smoke, ZEROHAL jacket

ZEROHAL PROFIBUS Cables



STANDARDS & SPECS



Raychem Specification 1200
 Raychem Specification 345
 MIL-DTL-26463/62

PRODUCT OFFERING

Military Part Number	Type	Tyco Electronics Part Number	Description
M24643/62-01	LSPB2SD-1	5022M1809	22 AWG, bare copper, non-water blocked, shield and jacket
M24643/62-02	LSPB2SDW-1	5022W1809	22 AWG, bare copper, water blocked, shield and jacket
M24643/62-03	LSPB2SDOS-1	5022M5809	22 AWG, bare copper, non-water blocked, two shields and two jackets
M24643/62-04	LSPB2SDOSW-1	5022W0809	22 AWG, bare copper, water blocked, two shields and two jackets

CABLE CONSTRUCTION

5022M1809



5022M5809



5022W0809



5022W1809



FOR MORE INFORMATION

Technical Support

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