

LEONI Marine Approved

Type B Cable for Marine Applications SHF-1



Cable Design

Wire

Conductor	Stranded tinned copper wire 7/0,25mm (22awg)	Ø 0,75 mm
Insulation	Polypropylene (PP)	Ø 1,50 mm

Core

Central Element	Filler	
1° Layer	4 wires twisted (WH-YE-BU-OG)	
Tape	Plastic tape overlapped	
Easystrip Jacket	Soft Thermoplastic copolymer	Ø 3,90 mm
Screen	Alulaminat foil overlapped	
Braid	Tinned copper wire braid, 85% coverage	Ø 4,70 mm

Outer Jacket	LSZH (Low Smoke Zero Halogen) SHF-1	Ø 6,5 ± 0,40 mm
Wall thickness	0,9 mm	



Characteristics

- Flame retardant acc. to IEC 60332-3-22 category A/F,
- Halogen free acc. to IEC 60754,
- Smoke density acc. to IEC 61034,
- Sunlight-resistant,
- Limited oil resistant,
- Maritime and offshore approvals:
Germanischer Lloyd, Lloyds Register of Shipping, ABS Europe,
Bureau Veritas, Det Norske Veritas

Specification

Part Number	Type
L45467-J16-B26	Industrial Ethernet Cat5e ES, PROFINET flexible cable for marine applications, 2x2x22AWG7, UL listed: CMG and PLTC, LSZH SHF-1



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Electrical Data @ 20°C

Loop resistance	≤	120	Ohm/km
Signal run time	≤	5,3	ns/m
Insulation resistance	≥	500	MOhm*km
Characteristic Impedance	1-100 MHz	100±15	Ohm
Surface Transfer Impedance	10 MHz	≤ 10	mOhm/m
Test Voltage (wire/wire/screen rms 50Hz min.)	=	700	V

Frequency (MHz)	1	4	10	16	20	31,25	62,5	100
Attenuation typ. Value (dB/100m)	1,8	3,6	6,0	7,6	8,7	11	16	21
NEXT typ. Value (dB/100m)	80	76	70	65	63	60	55	50

The electrical requirements acc. to EN 50288-2-1.

Mechanical & Thermal Characteristics

Temperature range	Permissible	-40 ~ +75	°C
Temperature range	During laying	0 ~ +50	°C
Temperature range	Transport	-40 ~ +75	°C
Min. Bending radius allowed	repeated	7,5	x Ø
Min. Bending radius allowed	single	3	x Ø
Tensile loading	≤	150	N
Weight (approx.)		65	kg/km

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