

## LEONI SeaLine® Profinet (MUD RES)

Cable type: 2YH(ST)CH 2X2X0.75/1.5-100 LI VZN GN



### Design

#### Wire

Stranded tinned copper wire (22 AWG)  
Insulation of Polyethylene (PE)

∅ 0.75 mm (0.030 in dia)  
∅ 1.5 mm (0.059 in dia)

#### Core:

Filler as central element  
1. layer: 4 wires WH-YE-BU-OG  
Plastic tape overlapped  
Inner-Jacket: Thermoplastic copolymer (FRNC)  
Aluminum foil overlapped, applied longitudinally  
Shield braiding of tinned copper wires  
Coverage about 85%

∅ 3.9 mm (0,154 in dia)

∅ 4.7 mm (0.185 in dia)

#### Jacket:

Special thermoplastic copolymer (FRNC) GN

∅ (6.5 ±0.2) mm (0.256 ±0.008 in dia)

Printing: "sequential length in metres" LEONI L SeaLine® \* L45467-J16-B216 \* 2YH(ST)CH 2X2X0.75/1.5-100 LI VZN FRNC CAT5 MUD RES \* "internal lot number"

### Electrical data at 20°C

Loop resistance	≤	120	Ohm/km
Signal run time	≤	5.3	ns/m
Insulation resistance	≥	500	MOhm*km
Characteristic impedance (100 MHz)		(100 ±15)	Ohm
Surface transfer impedance of screen 10 MHz	≤	10	mOhm/m
Test voltage (wire/wire/screen rms 50Hz 1min)		700	V

### Near-end crosstalk attenuation

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
typ. value (dB - 100m)	80	76	70	65	63	60	55	50

### Attenuation

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
typ. value (dB/100m) (dB/100ft)	1,8 (0,5)	3,6 (1,1)	6,0 (1,8)	7,6 (2,3)	8,7 (2,7)	11 (3,4)	16 (4,9)	21 (6,4)

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

### Mechanical and thermal characteristics

Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table L/MD (HD 624.3) (2Y)

Jacket material acc. to IEC 60092-359 / SHF2

Flame retardant acc. to IEC 60332-3-24

Mud resistant acc. to NEK606

Approval for Marine and Offshore applications possible

### Other characteristics:

RoHS compliant (Directive 2011/65/EC)

Halogen free acc. to IEC 60754-1

UV-resistant

Permissible temperature range

Transport, installation and operating: -40 °C (-40 °F) up to 80 °C (176 °F)

Min. bending radius allowed: repeated 10X  $\varnothing$ , single 5X  $\varnothing$

Weight about : 64 kg/km (42,9 lb/1000ft)

### Designation of order:

L45467-J16-B216

229259

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1000 m (3281 ft) on non-returnable reel

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