

SeaLine

Profinet (MUD RES)

Cable type: 9YH(ST)CH 2X2X0.34/1.5-100 LI VZN GN



Design

Wire

Stranded tinned copper wire (22 AWG)
Insulation of Polypropylene (PP)

∅ 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)
Alulaminat 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" * BizLink **SeaLine** SCG * L45467-J16-B216 * 9YH(ST)CH
2X2X0.34/1.5-100 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 50290-2-25, compound type full PP, table 4 part 1-5

Jacket material acc. to IEC 60092-360 (IEC 60092-359) SHF2

Mud resistant acc. to NEK606

Flame retardant acc. to IEC 60332-3-22 (Cat. A)

Approved for Marine and Offshore applications

DNV Certificate No. TAE 000048H

Lloyds Register Certificate No. C00-20029E4

ABS Certificate No. 17_HG1606705_PDA

Bureau Veritas Certificate No. 10376/CO BV

Other characteristics

RoHS compliant (Directive 2011/65/EU & 2015/863/EU RoHS 3)

Halogen free acc. to IEC 60754-1/-2

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 \emptyset , single 5X \emptyset

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

Designation of order

L45467-J16-B216

229259

9YH(ST)CH 2X2X0.34/1.5-100 LI VZN GN

1000 m (3281 ft) on non-returnable reel

Product has not been tested and classified according to the CPR (EU/305/2011).

The product shall not be permanently installed in buildings in the EU.