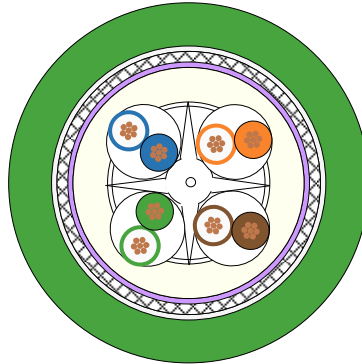


## SeaLine®

Profinet (MUD Res)

2YH(ST)CH 4X2X0.6/1.05-100 LI GN



### Design

#### Wire

Stranded bare copper wire (24 AWG)  
Insulation of Polyethylene (PE)

∅ 0.6 mm (0,024 in dia)  
∅ 1.05 mm (0.041 in dia)

2 wires twisted to a pair

#### Core:

4 pairs in separating element  
Sequence of colors: WHBU/BU - WHOG/OG - WHGN/GN - WHBN/BN  
Plastic tape, overlapped  
Inner-Jacket: Thermoplastic copolymer (FRNC)  
Alulaminat foil overlapped, applied longitudinally  
Shield braiding of tinned copper wires  
Coverage about 80%

∅ 6.4 mm (0.252 in dia)

∅ 6.9 mm (0.272 in dia)

#### Jacket:

Special thermoplastic copolymer (FRNC) GN

∅ (8.0 ±0.2) mm (0.315 ±0.008 in dia)

Printing: "sequential length in metres" LEONI L SeaLine® \* L45467-J416-B16 \* 2YH(ST)CH 4X2X0.6/1.05-100 LI  
FRNC CAT6<sub>A</sub> MUD RES \* "internal lot number"

### Electrical data at 20°C

Loop resistance	≤	180	Ohm/km
Signal run time	≤	5.13	ns/m
Insulation resistance	≥	500	MOhm*km
Operating voltage (effective value)	≤	80	V
Characteristic impedance (100 MHz)		(100 ± 5)	Ohm
Surface transfer impedance of screen (up to 100 MHz)	≤	20	mOhm/m
Coupling attenuation (30 - 100 MHz)	≥	80	dB

Time delay skew (pair to pair)	≤	45	ns/100m
Relative velocity of propagation	nom.	68	%
Test voltage (wire/wire/screen rms 50Hz 1min)		700	V

Frequency(MHz)	1	4	8	10	16	20	25	31.25	62.5	100	200	250	300	400	500
Next (dB)	75,3	66,3	61,8	60,3	57,2	55,8	54,3	52,8	48,4	45,3	40,8	39,3	38,1	36,3	34,8
PSNext (dB)	72,3	63,3	58,8	57,3	54,2	52,8	51,3	49,9	45,4	42,3	37,8	36,3	35,1	33,3	31,8
ELFext (dB)	67,8	55,8	49,7	47,8	43,7	41,8	39,8	37,9	31,9	27,8	21,8	19,8	18,3	15,8	13,8
PSELfext (dB)	64,8	52,8	46,7	44,8	40,7	38,8	36,8	34,9	28,9	24,8	18,8	16,8	15,3	12,8	10,8
Attenuation (dB/100m)	3,1	5,7	8	8,9	11,2	12,6	14,1	15,8	22,5	28,7	41,4	46,6	51,4	60,1	67,9
Return loss (dB)	20	23	24,5	25	25	25	24,2	23,3	20,7	19	16,4	15,6	15,6	15,6	15,6

Electrical requirements acc. to IEC 61156-6

### Mechanical and thermal characteristics

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

I-Jacket material acc. to DIN EN 50290-2-27 (HD 624.7)

Jacket material acc. to IEC 60092-359 / SHF2

Flame retardant acc. to IEC 60332-3-24 (Cat. C) (must be testified)

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 and fixed installation : -40 °C (-40 °F) up to 80 °C (176 °F)

Installation and flexible use : -25 °C (-13 °F) up to 80 °C (176 °F)

Min. bending radius allowed : repeated 8X ø, single 4X ø

Weight about : 97 kg/km (65 lb/1000ft)

### Designation of order:

L45467-J416-B16

229626

2YH(ST)CH 4X2X0.6/1.05-100 LI GN

1000 m (3281 ft) on non-returnable reel