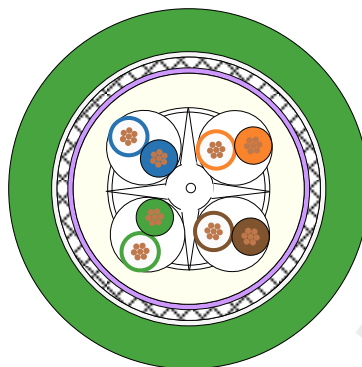


SeaLine

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" * BizLink **SeaLine** SCG * L45467-J416-B16 * 2YH(ST)CH 4X2X0.6/1.05-100 LI FRNC CAT6_A 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/EU & 2015/863/EU RoHS 3)

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 \varnothing , single 4X \varnothing

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

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.