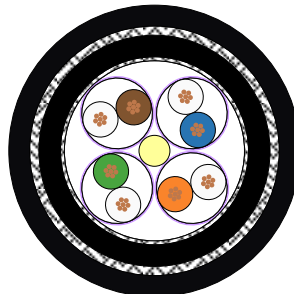


# SeaLine

CAT 6 (MUD RES)

Cable type: 02YSCH(Z)H 4X2X0.76/1.8-100 LI PIMF



## Design

### Wire

Stranded bare copper wire 7 X 0.25 (22 AWG) (0.34mm<sup>2</sup>)  
Insulation of foamed Polyethylene (PE) with skin

∅ 0.76 mm (0.030 in dia)  
∅ 1.8 mm (0.071 in dia)

### Screened pair

2 wires twisted to a pair  
Alulaminat foil overlapped, applied longitudinally

### Core

Central element: Strain relief (≥ 300N)  
4 screened pairs  
Sequence of colors: WH/BU-WH/OG-WH/GN-WH/BN  
Shield braiding of tinned copper wires 0.1 mm dia (38 AWG)  
Coverage about 65%

∅ 7.8 mm (0.307 in dia)

### Inner-Jacket

Thermoplastic copolymer (FRNC) BK

∅ (10.0 ±0.2) mm (0.394 ±0.008 in dia)

Braiding of stainless steel wires 0.2 mm dia

### Jacket

Special thermoplastic copolymer (FRNC) BK

∅ (12.6 ±0.3) mm (0.496 ±0.012 in dia)

Printing: "sequential length in metres" \* BizLink **SeaLine** SCG \* L45467-J417-C156 \* 02YSCH(Z)H  
4X2X0.76/1.8-100 LI PIMF CAT6 IEC 60332-3-22 MUD RES \* "internal lot number"

## Electrical data at 20°C

Loop resistance	≤	110	Ohm/km
Insulation resistance	≥	500	MOhm*km
Signal run time	≤	5.3	ns/m
Capacitance (1 kHz)	≈	42	nF/km
Operating voltage (peak)	≤	100	V
Characteristic impedance 100 MHz	(100 ±5)		Ohm
Surface transfer impedance 10 MHz		10	mOhm/m
Test voltage (wire/wire/screen rms 50Hz 1min)		700	V

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100	155	200	250
Next (dB)	66.0	65.3	59.3	56.2	54.8	51.9	47.4	44.3	41.4	39.8	38.3
PSNext (dB)	64.0	63.3	57.3	54.2	52.8	49.9	45.4	42.3	39.4	37.8	36.3
ELFext (dB)	66.0	58	50.0	45.9	44.0	40.1	34.1	30.0	26.2	24.0	22.0
PSELFext (dB)	64.0	55.0	47.0	43.0	41.0	37.1	31.1	27.0	23.2	21.0	19.0
Attenuation typ. (dB/100m)	2.1	3.8	6.0	7.6	8.5	10.8	15.5	19.9	25.3	29.1	33.0
Frequency	4	8	10	16	20	31.25	62.5	100	155	200	250
Return loss (dB)	23.1	24.5	25	25	25	23.6	21.5	20.1	18.8	18.0	17.3

Electrical requirements acc. to. EN 50288-5-1 & IEC 61156-6

### Mechanical and thermal characteristics

Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3) (02Y)

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

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

Flame retardant acc. to IEC 60332-1-2

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

Mud resistant acc. to NEK606

Approved for Marine and Offshore Applications

DNV - GL Certificate No. TAE000018F

### Other characteristics

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

Fire retardant, Zero Halogen, UV-resistant

Halogen free acc. to IEC 60754-1

Permissible temperature range

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

Min. bending radius allowed: repeated 20X  $\varnothing$ , single 10X  $\varnothing$

Weight about : 201 kg/km (135 lb/1000ft)

### Designation of order

L45467-J417-C156

226642

02YSCH(Z)H 4X2X0.76/1.8-100 LI PIMF

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.