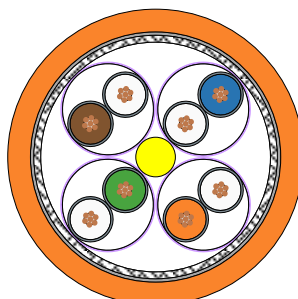


# SeaLine

CAT 6<sub>A</sub> (PH120<sup>+</sup>)

02YS(FE)C(FE)H 4X2X0.6/1.6-100 LI PIMF OG



## Design

### Wire

Stranded bare copper wire (24 AWG)  
Insulation of foamed Polyethylene (PE) with skin  
Flame retardant foil, overlapped

∅ 0.6 mm (0.024 in dia)  
∅ 1.35 mm (0.053 in dia)

### Screened pair

2 wires twisted to a pair  
Plastic tape overlapped  
Alulaminat foil overlapped

### 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  
Coverage about 70%  
Flame retardant foil, overlapped

∅ 8.2 mm (0.323 in dia)

### Jacket

Thermoplastic copolymer (FRNC) OG ∅ (10.8 ± 0.4) mm (0.425 ± 0.016 in dia)  
Printing: "sequential length in metres" \* BizLink **SeaLine** SCG \* L45467-J416-C646 \* 02YS(FE)C(FE)H  
4X2X0.6/1.6-100 LI PIMF CAT6<sub>A</sub> FIRE RESISTANT FE90 IEC 60331-23 \* IEC 60332-3-22 SHF1 \*  
"internal lot number"

## Electrical data at 20°C

Loop resistance	≤	180	Ohm/km
Insulation resistance	≥	500	MOhm*km
Signal run time	≤	5.3	ns/m
Capacitance (1 kHz)	≈	42	nF/km
Operating voltage (peak)	≤	110	V
Characteristic impedance (100 MHz)	(100 ± 5)		Ohm
Surface transfer impedance (10 MHz)		10	mOhm/m
Test voltage (wire/wire/screen rms 50Hz 1 min)		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 2/A (HD 624.3) (02Y)

Jacket material acc. to IEC 60092-360 (IEC 60092-359) SHF1

Functional integrity under fire conditions similar to EN 50200 (≥ PH120), EN 50289-4-16 and IEC 61156-6 (Cat 6<sub>A</sub>)

Insulation effect under fire conditions acc. to IEC 60331-23, FE180

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

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

Flame retardant acc. to IEC 60332-1-2

Approved for Marine and Offshore Applications

DNV - GL Certificate No. TAE000019G

### Other characteristics

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

Fire retardant, Zero Halogen

Halogen free acc. to IEC 60754-1/2

Smoke-density acc. to IEC 61034-1/2

UV-resistant

Permissible temperature range

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

Min. bending radius allowed : repeated 15X ø, single 10X ø

Weight about : 140 kg/km (94 lb/1000ft)

### Designation of order

L45467-J416-C646

231909

02YS(FE)C(FE)H 4X2X0.6/1.6-100 LI PIMF OR

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.