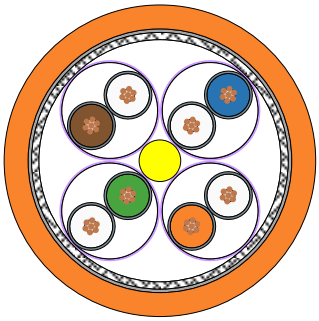
SeaLine

CAT 6_A MUD RES (PH120+)

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



Design

Wire

Stranded bare copper wire (24 AWG)	ø 0.6 mm (0.024 in dia)
Insulation of foamed Polyethylene (PE) with skin	ø 1.35 mm (0.053 in dia)
Flame retardant foil, overlapped	

Screened pair

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

Core

Central element: Strain relief (≥ 300N)	
4 screened pairs WH/BU-WH/OG-WH/GN-WH/BN	
Sequence of colors: WH/BU-WH/OG-WH/GN-WH/BN	
Shield braiding of tinned copper wires	
Coverage about 70%	
Flame retardant foil, overlapped	ø 8.2 mm (0.323 in dia)

Jacket

Thermoplastic copolymer (FRNC) OG	ø (10.8 ±0.4) mm (0.425 ±0.016 in dia)

Printing: "sequential length in metres" * BizLink **Sea**Line SCG * L45467-J416-C766 * 02YS(FE)C(FE)H 4X2X0.6/1.6-100 LI PIMF CAT6_A FIRE RESISTANT FE90 IEC 60331-23 * IEC 60332-3-22 MUD RES * "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 1min)		700	V

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Number: L45467-J416-C766
Up-dating B: 17.05.2022
Up-dating F: 29.07.2022

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_A)
Insulation effect under fire conditions acc. to IEC 60331-23, FE180
Mud resistant acc. to NEK TS 606
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 Certificate No. TAE000019F

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-C766
02YS(FE)C(FE)H 4X2X0.6/1.6-100 LI PIMF OG
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.