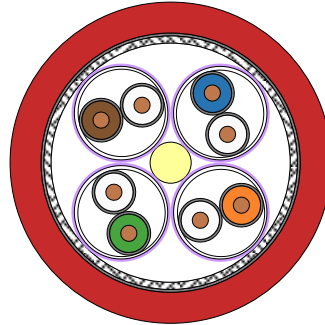


SeaLine

CAT6_A (PH120⁺)

Cable type: 02YS(FE)C(FE)H 4X2X0.6/1.67-100 PIMF RD



Design

Wire

Solid bare copper wire (23/1 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, 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
Coverage about 65%
Flame retardant foil, overlapped

∅ 8.4 mm (0.331 in dia)

Jacket

Thermoplastic copolymer (FRNC) RD

∅ (10.4 ±0.3) mm (0.409 ±0.012 in dia)

Printing: "sequential length in metres" * BizLink **SeaLine** SCG * L45467-J416-C946 02YS(FE)C(FE)H
4X2X0.60/1.67-100 PIMF CAT6_A FIRE RESISTANT FE90 IEC 60331-23 * IEC 60332-3-22 SHF1 *
"internal lot number"

Electrical data at 20°C

Loop resistance	≤	150	Ohm/km
Insulation resistance	≥	500	MOhm*km
Signal run time	≤	5.3	ns/m
Capacitance (1 kHz)	≈	42	nF/km
Operating voltage (peak)	≤	60	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	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)	2.1	3.8	5.3	5.8	7.5	8.4	9.4	10.5	15	19.1	27.6	31.1	34.3	40.1	45.3
Return loss (dB)	20	23	24.5	25	25	25	24.3	23.6	21.5	20.1	18	17.3	17.3	17.3	17.3

Electrical requirements acc. to IEC 61156-5

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 (\geq PH120), EN 50289-4-16 and IEC 61156-5 (Cat 6_A) (max. voltage 30V)

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 Certificate No. TAE000019E

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 \emptyset , single 10X \emptyset

Weight about : 132 kg/km (89 lb/1000ft)

Designation of order

L45467-J416-C946

238617

02YS(FE)C(FE)H 4X2X0.60/1.67-100 PIMF RD

500 m (1640 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.