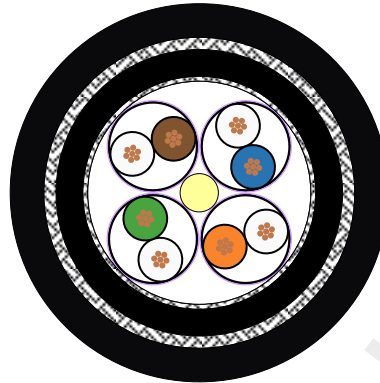


SeaLine

CAT 6 (SHF1)

Cable type: 02YSCHZH 4X2X0.76/1.8-100 LI PIMF BK



Design

Wire

Stranded bare copper wire 7 X 0.25 (22 AWG) (0.34mm²)
 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 (38 AWG)
 Coverage about 65%

Inner-jacket: Thermoplastic copolymer
 Braiding of stainless steel wires 0.2 mm ∅

∅ (10.0 ±0.3) mm (0.394 ±0.012 in dia)

Jacket

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-C136 *
 02YSCH(Z)H 4X2X0.76/1.8-100 LI PIMF CAT6 IEC 60332-3-22 SHF1 * "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

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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	58.0	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)	3.1	5.8	9.0	11.4	12.8	16.1	23.2	29.9	38.0	43.7	49.5
Frequency	4	8	10	16	20	31.25	62.5	100	155	200	250
Return loss (dB)	23.1	24.5	25.0	25.0	25.0	23.6	21.5	20.1	18.8	18.0	17.3

Electrical requirements acc. to EN 50288-5-2

Mechanical and thermal characteristics

Conductor material acc. to DIN EN 13602 Cu-ETP-A...

Screen material acc. to DIN EN 13602 Cu-ETP-A...-B

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 SHF1

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

Oil resistant acc. to IEC 60811-2-1 (4 hours / 70°C)

Flame retardant acc. to IEC 60332-1-2

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

Approved for Marine and Offshore Applications

DNV Certificate No. TAE-000018H

Other characteristics

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

Low Smoke, Fire retardant, Zero Halogen

Corrosivity of fumes acc. to IEC 60754-2

Smoke-density acc. to IEC 61034

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 \varnothing , single 10X \varnothing

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

Designation

L45467-J417-C136

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.