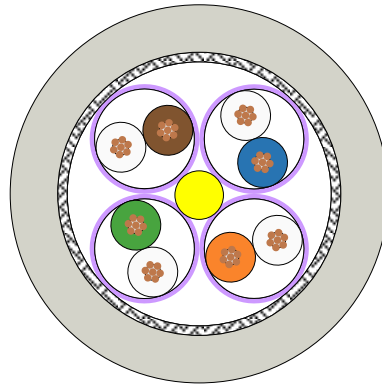


SeaLine

CAT 6_A (SHF1)

Cable type: 02YSCH 4X2X0.5/1.0-100 LI PIMF GY



Design

Wire

Stranded bare copper wire (26 AWG)
Insulation of foamed Polyethylene (PE) with skin

∅ 0.47 mm (0.019 in dia)
∅ 1.05 mm (0.041 in dia)

Screened pair

2 wires twisted to a pair
Alulaminare foil overlapped

Core

Kevlar yarns as central element
4 screened pairs
Sequence of colors: WH/BU-WH/OG-WH/GN-WH/BN
Shield braiding of tinned copper wires
Coverage about 70%

∅ 5.1 mm (0.201 in dia)

Jacket

Thermoplastic copolymer (FRNC) GY

∅ (7.1 ±0.2) mm (0.280 ±0.008 in dia)

Printing: "sequential length in metres" * BizLink **SeaLine** SCG * L45467-J415-C696 * 02YSCH 4X2X0.5/1.0-100 LI PIMF CAT6_A IEC 60332-3-22 SHF1 * "internal lot number"

Electrical data at 20°C

Loop resistance	≤	290	Ohm/km
Signal run time	≤	5.13	ns/m
Insulation resistance	≥	500	MΩ*km
Characteristic impedance 100 MHz		(100 ±5)	Ohm
Operating voltage (peak)	≤	100	V
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)	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

Oil resistant acc. to IEC 60811-404 (4 hours / 70°C)

Flame retardant acc. to IEC 60332-1-2

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

Approval for Marine and Offshore applications

DNV Certificate No. TAE000018C

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 10X \varnothing , single 5X \varnothing

Weight about : 56 kg/km (38 lb/1000ft)

Designation of order

L45467-J415-C696

237939

02YSCH 4X2X0.5/1.0-100 LI PIMF GR

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.