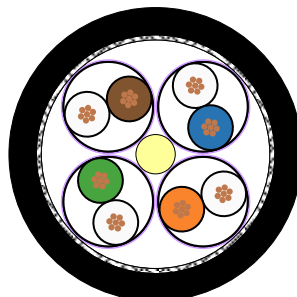


SeaLine CAT 7 (SHF2)

Cable type: 02YS CHX 4X2X0.76/1.8-100 LI PIMF



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
Alulaminare 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 0.1 mm dia (38 AWG)
Coverage about 65%

∅ 7.8 mm (0.307 in dia)

Jacket

Thermoplastic copolymer (FRNC) (cross-linked) BK

∅ (10.0 ± 0.2) mm (0.394 ± 0.008 in dia)

Printing: "sequential length in metres" * BizLink **SeaLine** SCG * L45467-J417-C16 * 02YSCHX 4X2X0.76/1.8-100 LI PIMF CAT7 IEC 60332-3-22 SHF2 * "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

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100	155	200	300	600
Next (dB)	80	80	80	80	80	80	75.1	72.4	69.6	67.9	65.3	60.8
PSNext (dB)	77	77	77	77	77	77	72.5	69.4	66.6	64.9	62.3	57.8
ELFext (dB)	80	80	74.0	69.9	68	64.1	58.1	54	50.2	48	44.5	38.4
PSELFext (dB)	77	77	71	66.9	65	61.1	55.1	51	47.2	45.0	41.5	35.4
Attenuation dB/100m)	2.0	3.6	5.7	7.2	8.1	10.1	14.5	18.5	23.4	26.8	33.3	48.9
Frequency	4	8	10	16	20	31.25	62.5	100	155	250	350	600
Return loss (dB)	23.1	24.5	25	25	25	23.6	21.5	20.1	18.8	17.3	17.3	17.3

Electrical requirements acc. to. EN 50288-4-1 & IEC 61156-5

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 (IEC 60092-359) SHF2
 Oil resistant acc. to IEC 60811-404 (24 hours / 100°C)
 Flame retardant acc. to IEC 60332-1-2
 Flame retardant acc. to IEC 60332-3-22 (Cat. A)

Approved for Marine and Offshore Applications
 DNV - GL Certificate No. TAE000018F

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 ø, single 5X ø
 Weight about : 103 kg/km (69,0 lb/1000ft)

Designation of order

L45467-J417-C16
 228553
 02YS CHX 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.