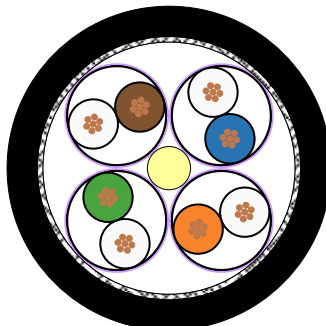


SeaLine CAT 7 (SHF1)

Cable type: 02YS CH 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
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 0.1 mm dia (38 AWG)
Coverage about 65%

∅ 7.8 mm (0.307 in dia)

Jacket

Thermoplastic copolymer (FRNC) BK

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

Printing: "sequential length in metres" * BizLink **SeaLine** SCG * L45467-J417-C6 * 02YSCH 4X2X0.76/1.8-100 LI PIMF CAT7 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 |

| | | | | | | | | | | | | |
|----------------------|------|------|------|------|-----|-------|------|------|------|------|------|------|
| 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) 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)

Approved for Marine and Offshore Applications

DNV / GL: Certificate No. TAE000018H

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 : 102 kg/km (68,4 lb/1000ft)

Designation of order

L45467-J417-C6

220834

02YS CH 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.