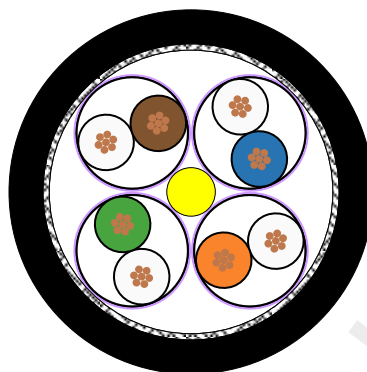


SeaLine

CAT 6 (SHF1)

Cable type: 02YSCH 4X2X0.60/1.4-100 LI PIMF



Design

Wire

Stranded bare copper wire (24 AWG)
Insulation of foamed Polyethylene (PE) with skin

∅ 0.6 mm (0.024 in dia)
∅ 1.43 mm (0.056 in dia)

Screened pair

2 wires twisted to a pair
Alulaminat foil overlapped, applied longitudinally

Core:

Strain relief
4 screened pairs
Sequence of colors: WH/BU-WH/OG-WH/GN-WH/BN
Shield braiding of tinned copper wires
Coverage about 65%

∅ 6.6 mm (0.260 in dia)

Jacket

Thermoplastic copolymer (FRNC) BK
Wall thickness about 1.0 mm (IEC 60092-376)

∅ (8.7 ±0.2) mm (0.343 ±0.008 in dia)

Printing: "sequential length in metres" * BizLink **SeaLine** SCG * L45467-J416-C316 * 02YSCH 4X2X0.60/1.4-100 LI PIMF CAT6 IEC 60332-3-22 SHF1 * "internal lot number"

Electrical data at 20°C

| | | | |
|---|---|----------|---------|
| Loop resistance | ≤ | 180 | Ohm/km |
| Insulation resistance | ≥ | 500 | MOhm*km |
| Signal run time | ≤ | 5.3 | ns/m |
| Characteristic impedance 100 MHz | | (100 ±5) | Ohm |
| Surface transfer impedance 10 MHz | | 10 | mOhm/m |
| Operating voltage (peak) | ≤ | 100 | V |
| Test voltage (wire/wire/screen rms 50Hz 1min) | | 1000 | V |

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| | | | | | | | | | | | |
|-------------------------|------|------|------|------|------|-------|------|------|------|------|------|
| Frequency | 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 | 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 (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 & 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 60811-2-1 (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 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 : 77 kg/km (51 lb/1000ft)

Designation of order

L45467-J416-C316

228179

02YSCH 4X2X0.60/1.4-100 LI PIMF SW

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.