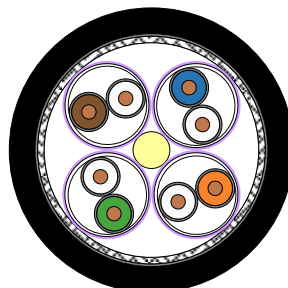


SeaLine

CAT6_A (PH120⁺)

Cable type: 02YS(FE)C(FE)H 4X2X0.6/1.67-100 PIMF BK



Design

Wire

Solid bare copper wire (23/1 AWG)
Insulation of foamed Polyethylene (PE) with skin
Flame retardant foil, overlapped

∅ 0.6 mm (0.024 in dia)
∅ 1.35 mm (0.053 in dia)

Screened pair

2 wires twisted to a pair
Plastic tape overlapped
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
Coverage about 65%
Flame retardant foil, overlapped

∅ 8.4 mm (0.331 in dia)

Jacket

Thermoplastic copolymer (FRNC) BK

∅ (10.4 ±0.4) mm (0.409 ±0.016 in dia)

Printing: "sequential length in metres" * BizLink **SeaLine** SCG * L45467-J416-C506 02YS(FE)C(FE)H
4X2X0.60/1.67-100 PIMF CAT6_A FIRE RESISTANT FE90 IEC 60331-23 * IEC 60332-3-22 SHF1 *
"internal lot number"

Electrical data at 20°C

| | | | |
|---|----------|-----|---------|
| Loop resistance | ≤ | 150 | Ohm/km |
| Insulation resistance | ≥ | 500 | MOhm*km |
| Signal run time | ≤ | 5.3 | ns/m |
| Capacitance (1 kHz) | ≈ | 42 | nF/km |
| Operating voltage (peak) | ≤ | 60 | 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 | 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) | 2.1 | 3.8 | 5.3 | 5.8 | 7.5 | 8.4 | 9.4 | 10.5 | 15 | 19.1 | 27.6 | 31.1 | 34.3 | 40.1 | 45.3 |
| Return loss (dB) | 20 | 23 | 24.5 | 25 | 25 | 25 | 24.3 | 23.6 | 21.5 | 20.1 | 18 | 17.3 | 17.3 | 17.3 | 17.3 |

Electrical requirements acc. to. IEC 61156-5

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

Functional integrity under fire conditions similar to EN 50200 (≥ PH120), EN 50289-4-16 and IEC 61156-5 (Cat 6_A) (max. voltage 30V)

Insulation effect under fire conditions acc. to IEC 60331-23, FE180

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

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

Flame retardant acc. to IEC 60332-1-2

Approved for Marine and Offshore Applications

DNV Certificate No. TAE000019E

Other characteristics

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

Fire retardant, Zero Halogen

Halogen free acc. to IEC 60754-1/2

Smoke-density acc. to IEC 61034-1/2

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 ø, single 10X ø

Weight about : 129 kg/km (87 lb/1000ft)

Designation of order

L45467-J416-C506 / 232124

02YS(FE)C(FE)H 4X2X0.6/1.67-100 PIMF BK

500 m (1640 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.