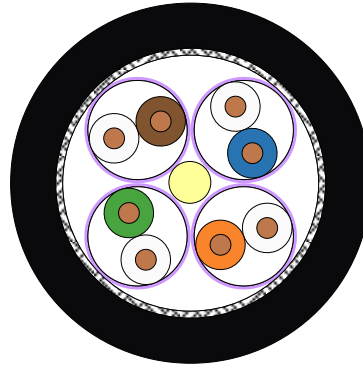


SeaLine

CAT 7 (SHF1)

Cable type: 02YS CH 4X2X0.6/1.4-100 PIMF



Design

Wire

Bare copper wire (23 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
Alulaminated foil overlapped, applied longitudinally

Core

Strain member of kevlar
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%

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-C476 * 02YSCH 4X2X0.60/1.43-100

Electrical data at 20°C

Loop resistance	≤	140	Ohm/km
Insulation resistance	≥	500	MΩ*km
Signal run time	≤	5.13	ns/m
Capacitance (1 kHz)	≈	42	nF/km
Operating voltage (peak)	≤	100	V
Characteristic impedance at 100 MHz	(100 ±5)		Ohm
Surface transfer impedance 10 MHz		10	mΩ/m
Test voltage (wire/wire/screen rms 50Hz 1 min)		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 60811-2-1 (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 - 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 : 81 kg/km (55 lb/1000ft)

Designation of order

L45467-J416-C476 228554 1000 m (3281 ft) on non-returnable reel
 L45467-J416-C476-F2 230702 100 m (328 ft) on ring
 02YS CH 4X2X0.6/1.43-100 PIMF SW

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.