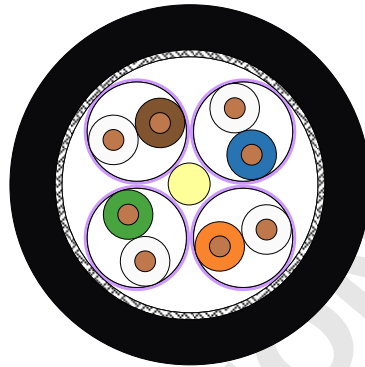


SeaLine®

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
Alulaminat 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 55%

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" LEONI L SeaLine® * L45467-J416-C476 * 02YSCH 4X2X0.60/1.43-100
PIMF CAT7 IEC 60332-3-22 SHF1 * "internal lot number"

Electrical data at 20°C

Loop resistance	≤	140	Ohm/km
Insulation resistance	≥	500	MOhm*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	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 60092-359 / 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)

Internal Shipbuilding Specification: CAT K 07-A

Approved for Marine and Offshore Applications

Germanischer Lloyd : Certificate No. 60 323-13 HH

Det Norske Veritas : Certificate No. E-12549

Other characteristics:

RoHS compliant (Directive 2011/65/EC)

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 \emptyset , single 5X \emptyset

Weight about : 81 kg/km (55 lb/1000ft)

Designation of order:

L45467-J416-C476

228554

02YS CH 4X2X0.6/1.43-100 PIMF SW

1000 m (3281 ft) on non-returnable reel