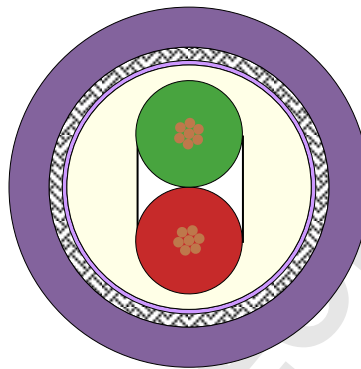


Profibus SeaLine®

Cable type: 02YSH(ST)CHX 1X2X0.75/2.55-150 LI VI FRNC



Design

Wire

Stranded bare copper wire 7 X 0.25 (22 AWG) (0.34mm²)
Insulation of foamed Polyethylene (PE) with skin

ø 0.75 mm (0.030 in dia)
ø 2.55 mm (0.100 in dia)

Core

2 wires, RD and GN twisted
Plastic tape, overlapped
Inner-Jacket: Thermoplastic copolymer (FRNC)
Alulamine foil overlapped, applied longitudinally
Shield braiding of tinned copper wires 0.15 mm dia (35 AWG)
Coverage about 85%

ø 5.5 mm (0.217 in dia)

ø 6.2 mm (0.244 in dia)

Jacket:

Thermoplastic copolymer (FRNC) VT (cross-linked)
Wall thickness about 0.9 mm

ø (8.0 ± 0.4) mm (0.315 ± 0.016 in dia)

Printing: "sequential length in metres" * LEONI SeaLine® Profibus * L45467-G17-C56 * 02YSH(ST)CHX
1X2X0.75/2.55-150 LI FRNC SHF2 * IEC 60332-3-22 * "internal lot number"

Electrical data at 20°C

Loop resistance		≤	110	Ohm/km
Insulation resistance		≥	16000	MOhm*km
Characteristic Impedance				
	3 - 20 MHz		(150 ± 15)	Ohm
	31.25 - 38.4 kHz		(185 ± 18.5)	Ohm
	9.6 kHz		(270 ± 27)	Ohm
Attenuation				
	16 MHz	<	42	dB/km
	4 MHz	<	22	dB/km
	38.4 kHz	<	4	dB/km
	9.6 kHz	<	2.5	dB/km
Capacitance	1 kHz	≈	28.5	nF/km
Capacitance unbalance to ground		≤	1500	pF/km
Operating voltage		≤	60	V
Test voltage (wire/wire/screen rms 50Hz 1min)			1000	V

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) SHF2
Oil resistant acc. to IEC 60811-404 (24 hours / 100°C)
Flame retardant acc. to IEC 60332-1-2

Approved for Marine and Offshore Applications

DNV - GL Certificate No. TAE000025V
Lloyds Register Certificate No. 07/20047
Bureau Veritas Certificate No. 20147/B0 BV
ABS Certificate No. 16-HG1512868-PDA

Other characteristics:

Flame retardant acc. to IEC 60332-3-22 (Cat. A/F)
Halogen free acc. IEC 60754-1
Smoke-density acc. to IEC 61034
RoHS compliant (Directive 2011/65/EC)
Sunlight resistant acc. to UL 2556 Sec. 4.2.8.5

Permissible temperature range : -25 °C (-13 °F) up to 80 °C (176 °F)
Min. bending radius allowed : repeated 10X Ø, single 5X Ø
Weight about : 82 Kg/km (55 lb/1000ft)

Designation of order:

L45467-G17-C56
212758
02YSH(ST)CHX 1X2X0.75/2.55-150 LI VI FRNC
1000 m (3281 ft) on non-returnable reel