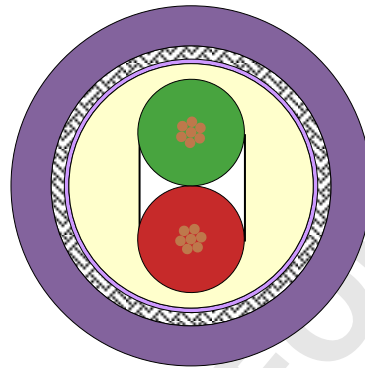


# Profibus SeaLine®

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



## Design

### Wire

Stranded bare copper wire 7 X 0.25 (22 AWG) (0.34mm<sup>2</sup>)  
Insulation of foamed Polyethylene (PE) with skin

∅ 0.76 mm (0,030 in)  
∅ 2.55 mm (0,100 in)

### Core

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

∅ 5.5 mm (0,217 in)

∅ 6.2 mm (0,244 in)

### Jacket:

Thermoplastic copolymer (FRNC) VT  
Wall thickness about 0.9 mm

∅ (8.0 ± 0.4) mm (0.315 ± 0.016 in)

Printing: "sequential length in metres" \* LEONI **SeaLine**® Profibus \* L45467-G17-C46 \* 02YSH(ST)CH  
1X2X0.75/2.55-150 LI FRNC \* 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

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Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet

### 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) SHF1  
 Flame retardant acc. to IEC 60332-1-2  
 Oil resistant acc. to IEC 60811-404 (4 hours / 70°C)

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)  
 UV-resistant

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 : 84 Kg/km (56 lb/1000ft)

### Designation of order:

L45467-G17-C46  
 211958  
 02YSH(ST)CH 1X2X0.75/2.55-150 LI VI FRNC  
 1000 m (3281 ft) on non-returnable reel