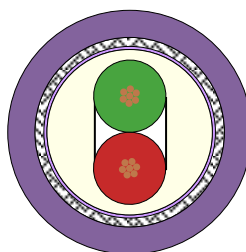


# Profibus SeaLine

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) (0.34mm<sup>2</sup>)  
Insulation of foamed Polyethylene (PE) with skin

∅ 0.75 mm (0.030 in dia)  
∅ 2.55 mm (0,100 in dia)

### 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 dia)  
∅ 6.2 mm (0,244 in dia)

### Jacket

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

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

Printing: "sequential length in metres" BizLink **SeaLine** SCG 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
<u>Characteristic Impedance</u>				
	3 - 20 MHz		(150 ± 15)	Ohm
	31.25 - 38.4 kHz		(185 ± 18.5)	Ohm
	9.6 kHz		(270 ± 27)	Ohm
<u>Attenuation</u>				
	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

CONFIDENTIAL: This document and its content must be treated strictly confidentially and are property of BizLink Special Cables Germany GmbH

## 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	Certificate No. TAE000025V
Lloyds Register	Certificate No. 07/20047
Bureau Veritas	Certificate No. 20147/C0 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/EU & 2015/863/EU RoHS 3)  
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  $\varnothing$ , single 5X  $\varnothing$   
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

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.