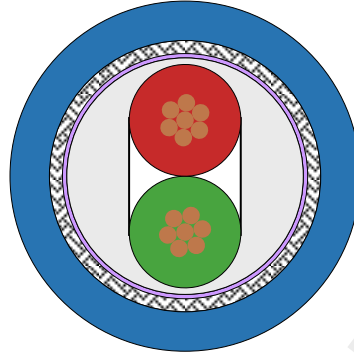


# SeaLine

## PROFIBUS (MUD RES)



### Design

#### Wire

Stranded bare copper wire (18/7 AWG)  
Insulation of foamed Polyethylene (PE) with skin

∅ 1.2 mm (0.047 in dia)  
∅ 2.55 mm (0.100 in dia)

#### Core

2 wires, RD and GN twisted to a pair  
Plastic tape, overlapped  
Inner-jacket: Thermoplastic copolymer (FRNC)  
Alulaminat foil overlapped, applied longitudinally  
Shield braiding of tinned copper wires  
Coverage about 90%

∅ 5.5 mm (0.217 in dia)  
∅ 6.2 mm (0.244 in dia)

#### Jacket

Special Thermoplastic copolymer (FRNC) BU  
Wall thickness about 0.9 mm (IEC 60092-376)

∅ (8.0 ±0.3) mm (0.315 ±0.012 in dia)

Printing: "sequential length in metres" BizLink **SeaLine** SCG Profibus PA ES \* L45467-J20-C226 \* 02YSH(ST)CH  
1X2X1.2/2.55-100 LI MUD Res \* "internal lot number"

### Electrical data at 20°C

Conductor resistance	≤	22	Ohm/km
Screen resistance	≤	9	Ohm/km
Insulation resistance	≥	10	MOhm*km
Capacitance (1 kHz)	≈	54	nF/km
Characteristic Impedance (31.25 KHz)		(100 ±20)	Ohm
Attenuation (39 KHz)	≤	3	dB/km
Capacitance unbalance e	≤	2	nF/km
Surface transfer impedance (20 MHz)	≤	5	mOhm/m
rel. velocity of propagation	≈	72	%
Operating voltage (peak)	≤	100	V
Test voltage (wire/wire/screen rms 50Hz 1min)		1000	V

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# Technical Data Sheet

## Mechanical and thermal characteristics

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

Flame retardant acc. to IEC 60332-3-22 (Cat. A)

Mud resistant acc. to NEK606

Approved for Marine and Offshore Applications

DNV Certificate No. TAE000025W

## Other characteristics

RoHS compliant (Directive 2011/65/EU & 2015/863/EU RoHS 3)

Fire retardant, Zero Halogen

Halogen free acc. to IEC 60754-1

UV-resistant

Permissible temperature range

Transport, installation and operating: -40 °C (-40 °F) up to 80 °C (176 °F)

Min. bending radius allowed : repeated 8X  $\varnothing$ , single 4X  $\varnothing$

Weight about : 94 kg/km (63 lb/1000ft)

## Designation of order

L45467-J20-C226

228608

02YSH(ST)CH 1X2X1.2/2.55-100 LI BL

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.