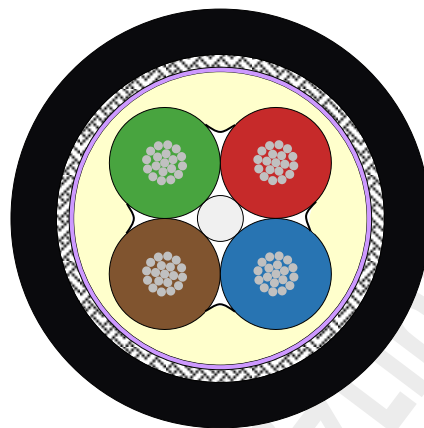


# SeaLine

## CAN-BUS

Cable type: 09YSH(ST)CH 2X2X0.9/2.2-120 LI VZN SW FRNC



### **Design**

#### **Wire**

Stranded tinned copper wire 19 X 0.18 (21 AWG) (0.48mm<sup>2</sup>)

∅ 0.9 mm (0,035 in)

Insulation of foamed Polypropylene (PP) with Skin

∅ 2.2 mm (0,087 in)

#### **Core**

Filler as central element

1. layer: 4 wires RD (Printing: L1 Hi), BU (Printing: L2 Lo), BN (Printing: L1 Lo), GN (Printing: L2 Hi)

Plastic tape, overlapped

Inner-Jacket: Thermoplastic copolymer (FRNC)

∅ 5.8 mm (0,228 in)

Alulaminat foil overlapped

Shield braiding of tinned copper wires 0.13 mm dia (36 AWG)

∅ 6.4 mm (0,252 in)

Coverage about 85%

#### **Jacket**

Thermoplastic copolymer (FRNC) BK

Wall thickness about 1.0 mm

∅ (8.4 ±0.2) mm (0,331 ±0,008 in)

Printing: "sequential length in metres" \* BizLink **SeaLine** SCG CAN Marine Cable \* 09YSH(ST)CH  
2X2X0.9/2.2-120 LI VZN SW FRNC \* L45467-F19-C26 \* "internal lot number"

### Electrical data at 20°C

Conductor resistance	≤	44	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≈	36	nF/km
Characteristic impedance (1 MHz)		(120 ±18)	Ohm
Surface transfer impedance of screen up to 30 MHz	≤	250	mOhm/m
Relative velocity of propagation	≈	80	%
Operating voltage (peak)	≤	300	V
Test voltage (wire/wire/screen rms 50Hz 1 min)		2000	V

Frequency (MHz)	0.1	1	5	10	20
Attenuation typ. (dB/100m) (dB/100ft)	0,3 (0,1)	1,1 (0,3)	2,8 (0,9)	3,9 (1,2)	5,7 (1,7)

### 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 50290-2-25 (09YS)  
 Jacket material acc. to DIN EN 50290-2-27 (HD 624.7) (IEC 60092-359 / SHF1)

Approved for Marine and Offshore Applications  
 DNV Certificate No. TAE00001JJ

### Burning characteristics

IEC 60332-1-2, IEC 60332-3-22  
 IEC 61034-2, IEC 60754-1 & -2  
 Def-St. 02-713, IEC 60695-7-1

### Other characteristics

RoHS compliant (Directive 2011/65/EU & 2015/863/EU RoHS 3)  
 Adapted for use in RS485 applications  
 Sunlight resistant acc. to UL 2556 Sec. 4.2.8.5 (720h)

Permissible temperature range : -30 °C (-22 °F) up to 80 °C (176 °F)  
 Min. bending radius allowed : repeated 8X ø, single 4X ø  
 Weight about : 90 Kg/km (61 lb/1000ft)

### Designation of order

L45467-F19-C26 212004 1000 m (3281 ft) on non-returnable reel  
 L45467-F19-C26-L6 231510 500 m (1680 ft) on non-returnable reel  
 09YSH(ST)CH 2X2X0.9/2.2-120 LI VZN SW FRNC

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.