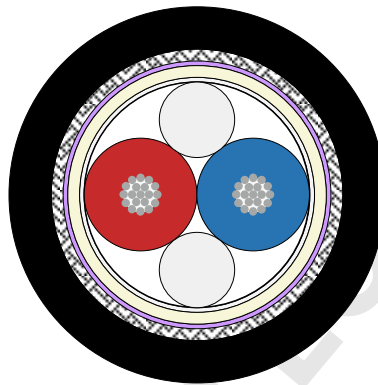


LEONI SeaLine®

CAN-BUS

Cable type: 09YSH(ST)CH 1X2X0.9/2.4-120 LI VZN SW FRNC



Design

Wire

Stranded tinned copper wire 19 X 0.18 (21 AWG) (0.48mm²)
Insulation of foamed Polypropylene (PP) with Skin

∅ 0.9 mm (0,035 in)
∅ 2.4 mm (0,094 in)

Core:

2 wires, RD and BU twisted to a pair with fillers in gaps
Plastic tape, overlapped
Inner-Jacket: Thermoplastic copolymer (FRNC)
Alulaminat foil overlapped, applied longitudinally
Shield braiding of tinned copper wires 0.13 mm dia (36 AWG)
Coverage about 85%

∅ 5.2 mm (0,205 in)
∅ 5.8 mm (0,228 in)

Jacket:

Thermoplastic copolymer (FRNC) BK
Wall thickness about 0.95 mm

∅ (7.7 ±0.2) mm (0,303 ±0,008 in)

Printing: "sequential length in metres" LEONI L SeaLine® CAN Marine Cable *
09YSH(ST)CH 1X2X0.9/2.4-120 LI VZN SW FRNC * L45467-F19-C16

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 5min)		5000	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 - GL Certificate No. TAE00001JJ
 Lloyds Register Certificate No. 10/20035

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/EC)
 Adapted for use in RS485 applications

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 : 78 kg/km (52 lb/1000ft)

Designation of order:

L45467-F19-C16
 211385
 09YSH(ST)CH 1X2X0.9/2.4-120 LI VZN SW FRNC
 1000 m (3281 ft) on non-returnable reel