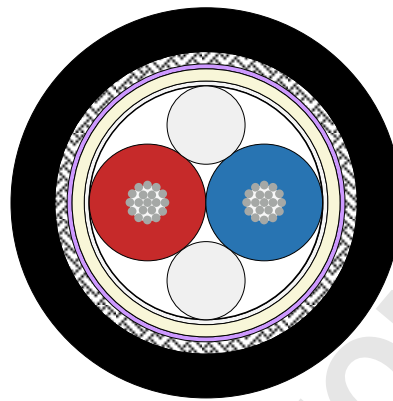


SeaLine[®]

CAN-BUS

09YSH(ST)CH 1X2X0.9/2.4-120 LI VZN BK FRNC



Design

Wire

Stranded tinned copper wire (21 AWG)
Insulation of foamed Polypropylene (PP) with Skin

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

Core:

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

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

Jacket:

Thermoplastic copolymer (FRNC) BK

∅ (7.7 ±0.3) mm (0.303 ±0.012 in dia)

Printing: To be defined

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) table 4 part 1-5
 Jacket material acc. to IEC 60092-360 (IEC 60092-359) SHF1 & SHF2
 Flame retardant acc. to IEC 60332-3-22 (Cat. A)
 Flame retardant acc. to IEC 60332-1-2

Approved for Marine and Offshore Applications

DNV - GL Certificate No. TAE00001JJ
 Lloyds Register Certificate No. C10-20035E1

Other characteristics:

RoHS compliant (Directive 2011/65/EC)
 Halogen free acc. to IEC 60754-1/2
 Smoke-density acc. to IEC 61034-1/2
 Adapted for use in RS485 applications

Permissible temperature range

Transport and fixed installation: -40 °C (-40 °F) up to 80 °C (176 °F)
 Installation and flexible use : -30 °C (-22 °F) up to 80 °C (176 °F)

Min. bending radius allowed : repeated 8X \varnothing , single 4X \varnothing
 Weight about : 78 Kg/km (52 lb/1000ft)

Designation:

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