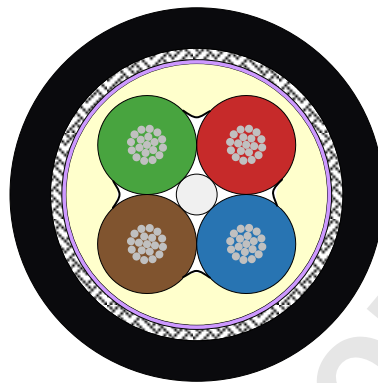


SeaLine[®]

CAN-BUS

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



Design

Wire

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

∅ 0.9 mm (0,035 in dia)
∅ 2.2 mm (0,087 in dia)

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)
Alulaminated foil overlapped
Shield braiding of tinned copper wires 0.13 mm dia (36 AWG)
Coverage about 85%

∅ 5.8 mm (0,228 in dia)
∅ 6.4 mm (0,252 in dia)

Jacket:

Thermoplastic copolymer (FRNC) BK

∅ (8.4 ±0.3) mm (0.331 ±0.012 in dia)

Printing: To be defined

Electrical data at 20°C

Conductor resistance
Insulation resistance
Capacitance (1 kHz)
Characteristic impedance (1 MHz)
Surface transfer impedance of screen up to 30 MHz
Operating voltage (peak)
Test voltage (wire/wire/screen rms 50Hz 1min)

≤ 44 Ohm/km
≥ 5 GOhm*km
≈ 36 nF/km
(120 ±18) Ohm
≤ 250 mOhm/m
≤ 300 V
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/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 : 89 kg/km (60 lb/1000ft)

Designation:

09YSH(ST)CH 2X2X0.9/2.2-120 LI VZN SW FRNC
 1000 m (3281 ft) on non-returnable reel