

## CanBus S/FTP LSZH-SHF1- Fire Resistant

**Application:** Shipboard installations, Maritime Environment, Fixed or portable installations, Indoor/outdoor use, fixed installations, High data rates, Ships, High speed & Light craft. CAN Bus communication.

**Outer Jacket:** LSZH

**Outer Diameter:** 10.5 ± 0.20 mm for 1 Pair, 12.0 ± 0.20 mm for 2 Pairs, 16.0 ± 0.20 for 4 Pairs

**Weight:** 110 kg/km for 1 Pair, 160 kg/km for 2 Pairs, 235 kg/km for 4 Pairs

**Standards:** IEC 60092-1, IEC 60332-3-22, IEC 60331, IEC 60754-1/2, IEC 61034-1/2, IEC 60092-360, UL 1581



### Design & Construction

**Conductor:** Stranded Tinned copper with 1 Pair, 2 Pairs, 4 Pairs

**Conductor Size:** 0.75 mm<sup>2</sup>

**Insulation:** Foam Polyethylene + Fire Resistant Tape

**Insulation OD:** 3.5 ± 0.3mm

**Conductor Color Code:** White X Blue, White X Orange, White X Green, White X Brown

**Foil shield between pairs:** Aluminum/Polyester Foil

**Braid:** Tinned copper wire

**Braid Coverage:** ≥80%

**Outer jacket:** LSZH SHF1

**Jacket Thickness:** 1.1 mm (Nom)

**Outer Jacket OD:** 10.5 ± 0.20 mm for 1 Pair, 12.0 ± 0.20 mm for 2 Pairs, 16.0 ± 0.20 for 4 Pairs

**Outer Jacket Color:** Purple (optional)

### Environmental properties and Fire Performances

**Halogen acid gas, Degree of acidity of gases:** IEC 60754-1/2

**Jacket, Insulation material:** IEC 60092-360

**Smoke Emission:** IEC 61034-1/2

**Fire Resistancy:** IEC 60331

**Flame Retardant:** IEC 60332-3-22

**UV-resistant:** UL 1581

### Electrical characteristics

**Impedance:** 120 Ω

**DC Resistance:** 26 Ω/Km max. @ 20°C

**Capacitance:** 38.0 PF/m

**Velocity of Propagation:** 75% (nom)

**Operating Temperature:** -35°C~80°C

**UV Resistance:** Yes

### Electrical Properties

<b>Frequency (MHz):</b>	0.1	1	5	10	20
<b>Attenuation dB/100m (Nom.):</b>	0.4	1	2.6	3.8	5.5

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