

## ProfiBus DP LSZH-SHF1

<b>Application:</b>	Shipboard and offshore installations, Maritime Environment, fixed installations, High data rates, Ships, High speed & Light craft. ProfiBus DP LAN, Harsh Environments, UV resistant.
<b>Outer Jacket :</b>	LSZH
<b>Outer Diameter:</b>	8.4 ± 0.20 mm for 1 Pair, 9.5 ± 0.20 mm for 2 Pairs
<b>Weight:</b>	91 kg/km for 1Pair, 140 kg for 2 Pairs
<b>Standards:</b>	IEC 61158-2, IEC 60092-360 IEC 60332-3 , IEC 60754-1/2, IEC 61034-1/2
<b>Bending Radius:</b>	8D



### Design & Construction

<b>Conductor:</b>	Stranded tinned Copper AWG 22/7 (0.35 mm <sup>2</sup> ), 1 Pair and 2 Pairs
<b>Conductor structure:</b>	7 x 0.25 mm
<b>Insulation:</b>	Foam Polyethylene
<b>Insulation OD:</b>	2.60 ± 0.15 mm
<b>Conductor Color Code:</b>	Green & Red, Blue & Brown
<b>Foil shield:</b>	Aluminum/Polyester Foil
<b>Braid:</b>	Tinned copper wire
<b>Braid Coverage:</b>	≥80%
<b>Outer jacket:</b>	LSZH SHF1
<b>Jacket Thickness:</b>	1.3mm (Nom)
<b>Outer Jacket OD:</b>	8.4 ± 0.20 mm for 1 Pair, 9.5 ± 0.20 mm for 2 Pairs
<b>Outer Jacket Color:</b>	Purple (optional)

### Environmental properties and Fire Performances

<b>Halogen acid gas, Degree of acidity of gases:</b>	IEC 60754-1/2
<b>Jacket, Insulation material:</b>	IEC 60092-360
<b>Smoke Emission:</b>	IEC 61034-1/2
<b>Flame retardant:</b>	IEC 60332-3-22
<b>UV Resistance:</b>	UL 1581

### Electrical characteristics

<b>Impedance:</b>	150 Ω
<b>Attenuation:</b>	45 dB/Km max.@16.0 MHz
<b>Capacitance:</b>	28.0 PF/m
<b>UV Resistance:</b>	Yes
<b>Voltage Rating:</b>	300 V
<b>Operating Temperature:</b>	-35°C~80°C

### Electrical Properties

<b>Frequency (MHz):</b>	1	4	16
<b>Attenuation dB/km (Nom.):</b>	3	22	45

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