DeviceNet LSZH SWB Cable

Eland Product Group: A8P

APPLICATION
A LSZH (Low Smoke Zero Halogen) cable designed for use on DeviceNet systems. The cable incorporates both a power and data pair for backbone wiring. These cables are also referred to as DeviceNet trunk cables. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

CHARACTERISTICS

Voltage Rating
125V

Temperature Rating
Fixed: -20°C to +80°C
Flexed: -5°C to +50°C

Minimum Bending Radius
10 x overall diameter

CONSTRUCTION

Conductor
Pair 1 - Data: Class 2 Stranded tinned copper
Pair 2 - Power: Class 2 Stranded tinned copper

Insulation
Pair 1 - Data: Foam-skin PE (Polyethylene)
Pair 2 - Power: Solid PE (Polyethylene)

Shield
Al/PET (Aluminium/Polyester Tape)

Drain Wire
Tinned copper

Overall Shield
TCWB (Tinned Copper Wire Braid)

Bedding
LSZH (Low Smoke Zero Halogen)

Armour
GSWB (Galvanized Steel Wire Braid)

Sheath
LSZH (Low Smoke Zero Halogen)

Core Identification
Pair 1: ○ Blue ○ White
Pair 2: ○ Red ○ Black

Sheath Colour
○ Black

STANDARDS
BS EN/IEC 61158, BS EN/IEC 62026-3, UL1581, BS EN/IEC 61034-1/2, BS EN 60754-1/2
Flame Retardant according to BS EN/IEC 60332-1-2

ISO/IEC 17025 LABORATORY TESTED
This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

REGULATORY COMPLIANCE
This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.

Click here for more information:
elandcables.com | DeviceNet LSZH SWB Cable
### DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>CONDUCTOR AWG</th>
<th>NOMINAL OVERALL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Data Pair</td>
<td>Power Supply Pair</td>
<td>Data Pair</td>
<td>Power Supply Pair</td>
</tr>
<tr>
<td>A8P-DNLSZHWSWB</td>
<td>0.25</td>
<td>0.25</td>
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<td>22</td>
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### ELECTRICAL CHARACTERISTICS

**Electrical and Transmission Properties at 20°C**

<table>
<thead>
<tr>
<th>MAXIMUM DC RESISTANCE OF CONDUCTOR ohms/km</th>
<th>CAPACITANCE AT 800HZ nF/km</th>
<th>PROPAGATION VELOCITY AT 10MHZ %</th>
<th>IMPEDANCE AT 1MHz ohms</th>
<th>ATTENUATION dB/100m</th>
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</thead>
<tbody>
<tr>
<td>Data Pair</td>
<td>Power</td>
<td>Data Pair</td>
<td>Data Pair</td>
<td>At 150kHz</td>
</tr>
<tr>
<td>77</td>
<td>52</td>
<td>39</td>
<td>76</td>
<td>120</td>
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<thead>
<tr>
<th>TRANSFER IMPEDANCE AT 10MHZ mohms/m</th>
<th>DIELECTRIC STRENGTH kVac/1min</th>
<th>MINIMUM INSULATION RESISTANCE Gohms/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Pair</td>
<td>Conductor/Conductor</td>
<td>Conductor/Shield</td>
</tr>
<tr>
<td>15</td>
<td>0.7</td>
<td>0.7</td>
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