**Profibus DP LSZH SWB Cable**

**APPLICATION**
A 1 pair LSZH (Low Smoke Zero Halogen) Profibus DP cable with a steel wire braid for additional mechanical support. For use on process and fieldbus communications.

**CHARACTERISTICS**

**Voltage Rating**
300V (Not for power purposes)

**Temperature Rating**
Fixed: -40°C to +80°C

**Minimum Bending Radius**
10 x overall diameter

**CONSTRUCTION**

**Conductor**
Class 1 solid copper conductor

**Insulation**
Foam-skin PE (Polyethylene)

**Separation**
PET (Polyester Tape)

**Filler**
HFFR (Halogen Free Flame Retardant) compound

**Shield 1**
Al/PET (Aluminium/Polyester Tape)

**Shield 2**
TCWB (Tinned Copper Wire Braid)

**Inner Sheath**
LSZH (Low Smoke Zero Halogen)

**Armour**
GSWB (Galvanized Steel Wire Braid)

**Sheath**
LSZH (Low Smoke Zero Halogen)

**Core Identification**
- Green
- Red

**Inner Sheath Colour**
- Violet

**Outer Sheath Colour**
- Black

**STANDARDS**

BS EN/IEC 61158, BS EN 60754-1/2, BS EN/IEC 61034-1/2

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 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™.
## DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NO. OF PAIRS</th>
<th>DIAMETER OF CONDUCTOR mm</th>
<th>NOMINAL OVERALL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
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</thead>
<tbody>
<tr>
<td>A8P-DPLSZHSWB</td>
<td>1</td>
<td>0.64</td>
<td>11.2</td>
<td>175</td>
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</table>

## 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>IMPEDANCE ABOVE 1MHZ ohms</th>
<th>ATTENUATION dB/100m</th>
<th>TRANSFER IMPEDANCE AT 10MHZ mohms/m</th>
<th>DIELECTRIC STRENGTH kVac/1min</th>
<th>MINIMUM INSULATION RESISTANCE Gohms/km</th>
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</thead>
<tbody>
<tr>
<td>57.5</td>
<td>29</td>
<td>150</td>
<td>0.3</td>
<td>0.5</td>
<td>2.1</td>
<td>4</td>
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<td></td>
<td></td>
<td>10</td>
<td>1.5</td>
<td>1.5</td>
</tr>
</tbody>
</table>

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.