Profibus PA LSZH SWB Cable

APPLICATION
A LSZH (Low Smoke Zero Halogen) fieldbus cable with a SWB (Steel Wire Braid) designed for transmission where additional mechanical protection is required.

CHARACTERISTICS
Voltage Rating
300V (Not for power purposes)

Temperature Rating
Fixed: -30°C to +80°C

Minimum Bending Radius
Fixed: 15 x overall diameter

CONSTRUCTION
Conductor
Class 1 solid copper conductor

Insulation
Solid PE (Polyethylene)

Separation
PET (Polyester Tape)

Filler
HF (Halogen free)

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

Outer Sheath Colour
● Black

STANDARDS
BS EN/IEC 61158, UL 1581, BS EN 60754-1/2, BS EN/IEC 61034-2

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 50675, 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™.

RoHS Trusted KITEMARK™
KM 634267
## 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>
</tr>
</thead>
<tbody>
<tr>
<td>A8P-PALSZHSWB</td>
<td>1</td>
<td>0.85</td>
<td>1</td>
<td>190</td>
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</tbody>
</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 ohms</th>
<th>NOMINAL ATTENUATION dB/km</th>
<th>INDUCTANCE mH/km</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>At 1MHz</td>
<td>At 31.25kHz</td>
<td>At 39kHz</td>
<td>At 39kHz</td>
</tr>
<tr>
<td></td>
<td>22</td>
<td>60</td>
<td>80</td>
<td>100</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>MAXIMUM PROPAGATION DELAY CHANGE (7.9/39KHZ) µsec/km</th>
<th>DIELECTRIC STRENGTH kVac/1min</th>
<th>TRANSFER IMPEDANCE mohms/m</th>
<th>MINIMUM INSULATION RESISTANCE Gohms/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor/Conductor</td>
<td>Conductor/Shield</td>
<td>At 100HZ</td>
<td>At 1MHz</td>
</tr>
<tr>
<td>1.7</td>
<td>2.5</td>
<td>15</td>
<td>10</td>
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</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.