9842 - LSZH 300V Alternative Cable

**APPLICATION**

9842 Alternative cable is a 24 AWG low capacitance cable with a high level of screening. Provides interference free, high speed data transmission suitable for RS485 applications.

**CHARACTERISTICS**

**Voltage Rating**

300V

**Temperature Rating**

Fixed: -20°C to +80°C

**CONSTRUCTION**

**Conductor**

Class 2 stranded tinned copper conductor

**Insulation**

PE (Polyethylene)

**Screen**

Al/PET (Aluminium polyester foil)

**Drain Wire**

Stranded Tinned copper

**Braid**

TCWB (Tinned Copper Wire Braid)

**Sheath**

LSZH (Low Smoke Zero Halogen)

**Core Identification**

Pair 1: Blue/White White/Blue

Pair 2: Orange/White White/Orange

**Sheath Colour**

Grey

**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 Reglation 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™.
### DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NO. OF PAIRS</th>
<th>AWG (NO. OF STRANDS)</th>
<th>NOMINAL DIAMETER OF STRANDS mm</th>
<th>NOMINAL OVERALL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
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</thead>
<tbody>
<tr>
<td>A3B9842LSZH</td>
<td>2</td>
<td>AWG24(7)</td>
<td>0.2</td>
<td>7.4</td>
<td>92</td>
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</tbody>
</table>

### ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>VELOCITY OF PROPAGATION %</th>
<th>IMPEDANCE ohms</th>
<th>CAPACITANCE AT 1kHz pF/m</th>
<th>MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>66</td>
<td>120</td>
<td>42</td>
<td>86.2</td>
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