9843 - LSZH 300V Alternative Cable

Eland Product Group: A3B

APPLICATION
9843 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

Minimum Bending Radius
10 x overall diameter

CONSTRUCTION
Conductor
Class 2 stranded tinned copper conductor

Insulation
PE (Polyethylene)

Inner Sheath
LSZH (Low Smoke Zero Halogen) compound

Screen 1
Al/PET (Aluminium foil/Polyester tape)

Screen 2
TCWB (Tinned Copper Wire Braid)

Drain Wire
Stranded Tinned copper

Sheath
LSZH (Low Smoke Zero Halogen)

Core Identification
Pair 1: Blue/White White/Blue
Pair 2: Orange/White White/Orange
Pair 3: White/Green Green/White

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 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®.

EN 50575, CPR, RoHS

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# 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>
</tr>
</thead>
<tbody>
<tr>
<td>A3B9843LSZH</td>
<td>3</td>
<td>AWG24(7)</td>
<td>0.2</td>
<td>9.15</td>
<td>108</td>
</tr>
</tbody>
</table>

# ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>VELOCITY TO PROPAGATION (%)</th>
<th>IMPEDANCE (ohms)</th>
<th>CAPACITANCE AT 1kHz (pF/m)</th>
<th>MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C (ohms/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>66</td>
<td>120</td>
<td>90</td>
<td>90.41</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.