8163 - LSF 300V Alternative Cable

APPLICATION
An overall foil and braid screen cable used over extended distances at high data rates for RS232 and RS422 applications.

CHARACTERISTICS
Voltage Rating
300V

Temperature Rating
-20°C to +80°C

Minimum Bending Radius
10 x overall diameter

CONSTRUCTION
Conductor
Class 2 stranded tinned copper

Insulation
Gas Injection Foam PE (Polyethylene)

Collective Screen
Al/PET (Aluminium Foil/Polyester tape)

Drain Wire
Tinned copper

Braid
TCWB (Tinned Copper Wire Braid)

Sheath
PVC-LSF (Polyvinyl Chloride-Low Smoke Fume)

Core Identification
Pair 1: • Black • Red
Pair 2: • Black • White
Pair 3: • Black • Green

Sheath Colour
• Grey
Other colours available upon request

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>AWG (NO. OF STRANDS)</th>
<th>NOMINAL THICKNESS OF INSULATION mm</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>A3B8163LSF</td>
<td>3</td>
<td>AWG24(7)</td>
<td>0.483</td>
<td>0.2</td>
<td>9.12</td>
<td>63</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 20ºC ohm/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>78</td>
<td>100</td>
<td>90+/-20</td>
<td>&lt;84.6</td>
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</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.