Belden 8106 Multi-Conductor Low Capacitance Cable

Eland Product Group: A4B

APPLICATION
An overall foil and braid screen cable used over extended distances at high data rates for RS 232 and RS 422 applications.

CHARACTERISTICS

Voltage Rating
300V

Temperature Rating
-30°C to +80°C

Minimum Bending Radius
10 x overall diameter

CONSTRUCTION

Conductor
Class 2 stranded tinned copper conductor

Insulation
Datalene ® FPE (Foam Polyethylene)

Screen 1
Beldfoil ® (Aluminium foil polyester tape)

Drain Wire
Tinned copper

Screen 2
TCWB (Tinned Copper Wire Braid)

Sheath
PVC (Polyvinyl Chloride)

Core Identification
Pair 1: White/Blue, Blue/White
Pair 2: White/Orange, Orange/White
Pair 3: White/Green, Green/White
Pair 4: White/Brown, Brown/White
Pair 5: White/Grey, Grey/White
Pair 6: Red/Blue, Blue/Red

Sheath Colour
Grey

STANDARDS

Generally to Belden 8106, EIA RS 232, RS 422

Vertical tray fire propagation and smoke release test UL 1685

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>Belden Reference</th>
<th>No. of Pairs</th>
<th>AWG (No. of Strands)</th>
<th>Nominal Diameter of Strands</th>
<th>Nominal Overall Diameter</th>
<th>Nominal Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4B8106</td>
<td>8106</td>
<td>6</td>
<td>AWG24(7)</td>
<td>0.032</td>
<td>8.66</td>
<td>80.36</td>
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</tbody>
</table>

### ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>AWG (No. of Strands)</th>
<th>Capacitance (pF/m)</th>
<th>Velocity of Propagation (%)</th>
<th>Impedance (ohms)</th>
<th>Maximum Resistance of Conductor at 20°C (ohms/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWG24(7)</td>
<td>41.01</td>
<td>72.18</td>
<td>78</td>
<td>100</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.