Belden 9844 Multi-Conductor Low Capacitance Computer Cables

Application
This 9844 Belden cable can be used widely for audio, instrumentation and computer networks and for use in electronics. Also used for Controller Area Networks (CANopen solutions) which enable the communication between devices of different manufacturers and guarantees an interchangeability of devices.

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: PE (Polyethylene)
- Screen 1: Beldfoil® (Aluminium Foil Polyester Tape)
- Screen 2: TCWB (Tinned Copper Wire Braid)
- Drain Wire: Tinned copper
- 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
- Sheath Colour: Grey

Standards
- Belden 9844, EIA/RS485

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 mm</th>
<th>NOMINAL OVERALL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4B9844</td>
<td>9844</td>
<td>4</td>
<td>AWG24(7)</td>
<td>0.81</td>
<td>9.906</td>
<td>106</td>
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</table>

## PERFORMANCE CHARACTERISTICS

<table>
<thead>
<tr>
<th>CAPACITANCE (CONDUCTOR TO CONDUCTOR) pF/ft.</th>
<th>CAPACITANCE (CONDUCTOR TO SHIELD) pF/m</th>
<th>NOMINAL DELAY ns/ft.</th>
<th>ATTENUATION AT 1MHz db/100ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.8</td>
<td>41.98</td>
<td>23</td>
<td>1.6</td>
</tr>
<tr>
<td>75.44</td>
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<td></td>
<td>5.248</td>
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<tr>
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<td>0.6</td>
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<tr>
<td></td>
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<td>0.6</td>
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</table>

## ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>IMPEDANCE ohms</th>
<th>MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/1000ft.</th>
<th>NOMINAL VELOCITY OF PROPAGATION %</th>
<th>CURRENT CARRYING CAPACITY AT 25°C Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>24</td>
<td>66</td>
<td>1.54</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.