Belden 8162 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 RS232 and RS422 applications.

CHARACTERISTICS
Voltage Rating
300V

Temperature Rating
-40°C to +60°C

Minimum Bending Radius
10 x overall diameter

CONSTRUCTION
Conductor
Class 2 stranded tinned copper conductor

Insulation
Datalene® FPE (Foam Polyethylene)

Collective Screen
Beldfoil® (Aluminium foil polyester tape)

Drain Wire
Tinned copper

Braid
TCWB (Tinned Copper Wire Braid)

Sheath
PVC (Polyvinyl Chloride)

Core Identification
Pair 1: ● Black ● Red
Pair 2: ● Black ○ White

Sheath Colour
● Grey

STANDARDS
Belden 8162, EIA RS 232, RS 422, UL 1581

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>
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<tbody>
<tr>
<td>A4B8162</td>
<td>8162</td>
<td>2</td>
<td>AWG24(7)</td>
<td>0.032</td>
<td>0.34</td>
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### ELECTRICAL CHARACTERISTICS

<table>
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<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 20ºC ohms/km</th>
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<tbody>
<tr>
<td>Conductor to Conductor</td>
<td>12.5</td>
<td>22</td>
<td>78</td>
<td>100</td>
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<tr>
<td>Conductor to Shield</td>
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<td>78</td>
<td>100</td>
<td>24</td>
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