Compact D-Sub Backshells

INTRODUCTION
Carlisle Interconnect Technologies’ (CarlisleIT) lightweight series D-Sub Backshells are designed to minimize weight and maximize internal space and EMI shielding. Our D-Sub Backshells are an ideal solution for high-end commercial and aviation cables where weight and/or EMI shielding are critical. The lightweight series D-Sub Backshells also feature a number of unique characteristics that improve the ease of assembly and overall system stability.

FEATURES
» Straight, 45° and 90° exit
» 60% lighter than comparable industry standard products
» Compact and efficient design maximizes internal space
» Front panel mount capability
» Slots for mounting stability

KEY CHARACTERISTICS
» Tapped body style
» Accommodates conventional and moisture-proof MIL-STD-24308 D-Sub connectors
» Designed for ease of manufacturing and rework in the field
» High-precision manufacturing results in a minimal air gap
» Very effective EMI shielding
» RoHS and ELV compliant

BENEFITS
» Special mounting features that maximize cable strain relief strength. This subsequently prevents potential damage to individual wires and electrical contacts.
» Readily available engineering support for shield termination methods that optimize the mechanical and electrical system performances.
» Custom designs are available to suit special application requirements such as tight space limitations or bending radii.
Compact D-Sub Backshells

STRAIGHT EXIT ANGLE BACKSHELL

Features
» Straight cable exit
» Unique front-panel mount feature
» Slots for 4-40 screw or tie strap to provide more mounting stability

Ideal Applications
» Aerospace video and Ethernet
» EMI protection
» Weight sensitive

Kit Contents
» 2 shell halves
» 2 screws (MS51957)

Standard Material
» Shell - aluminum alloy with electro-less nickel plating
» 4-40 pan head screws - stainless steel

Optional Material
» Zinc alloy or metalized plastic
» Additional plating upon request

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Dimensions</th>
<th>Cable DIA (Min-Max)</th>
<th>Weight</th>
<th>Material</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/E</td>
<td>1.23”</td>
<td>0.74” - 0.984”</td>
<td>0.56”</td>
<td>0.15” - 0.35”</td>
<td>18 g</td>
</tr>
<tr>
<td></td>
<td>1.279”</td>
<td>0.75” - 0.984”</td>
<td>0.58”</td>
<td>0.15” - 0.35”</td>
<td>11 g</td>
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<tr>
<td>2/A</td>
<td>1.55”</td>
<td>1” - 1.312”</td>
<td>0.58”</td>
<td>0.15” - 0.35”</td>
<td>16 g</td>
</tr>
<tr>
<td></td>
<td>1.55”</td>
<td>1” - 1.312”</td>
<td>0.51”</td>
<td>0.15” - 0.35”</td>
<td>13.5 g</td>
</tr>
<tr>
<td></td>
<td>2.1”</td>
<td>1.475” - 1.852”</td>
<td>0.68”</td>
<td>0.4” - 0.65”</td>
<td>21 g</td>
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<td>2.1”</td>
<td>1.472” - 1.852”</td>
<td>0.68”</td>
<td>0.4” - 0.65”</td>
<td>36 g</td>
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</table>

Notes:
1. The parts shown in the above table are standard items. Other strain relief diameters can be available upon request.
2. Parts are packaged unassembled.
Compact D-Sub Backshells

45° EXIT ANGLE BACKSHELL

Features
- 45° cable exit
- Unique front-panel mount feature
- Slots for 4-40 screw or tie strap to provide more mounting stability

Ideal Applications
- Aerospace video and Ethernet
- EMI protection
- Weight sensitive

Kit Contents
- 2 shell halves
- 2 screws (MS51957)

Standard Material
- Shell - aluminum alloy with electro-less nickel plating
- 4-40 pan head screws - stainless steel

Optional Material
- Zinc alloy or metalized plastic
- Additional plating upon request

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Dimensions A</th>
<th>Dimensions B</th>
<th>Dimensions C</th>
<th>Dimensions D</th>
<th>Dimensions E</th>
<th>Cable Dia (Min-Max)</th>
<th>Weight</th>
<th>Material</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/E</td>
<td>1.23&quot;</td>
<td>1.5&quot;</td>
<td>0.75&quot;</td>
<td>0.984&quot;</td>
<td>0.58&quot;</td>
<td>0.15&quot; - 0.35&quot;</td>
<td>17.5 g</td>
<td>Die-Cast Aluminum</td>
<td>LW091C-45</td>
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<td></td>
<td></td>
<td>Composite</td>
<td>LW091P-45</td>
</tr>
<tr>
<td>2/A</td>
<td>1.56&quot;</td>
<td>1.5&quot;</td>
<td>1&quot;</td>
<td>1.312&quot;</td>
<td>0.58&quot;</td>
<td>0.15&quot; - 0.35&quot;</td>
<td>15 g</td>
<td>Composite</td>
<td>LW092P-45</td>
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<tr>
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<td>1.8&quot;</td>
<td>1&quot;</td>
<td>1.312&quot;</td>
<td>0.59&quot;</td>
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<td>25 g</td>
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<tr>
<td>3/B</td>
<td>2.1&quot;</td>
<td>1.8&quot;</td>
<td>1.475&quot;</td>
<td>1.852&quot;</td>
<td>0.58&quot;</td>
<td>0.2&quot; - 0.48&quot;</td>
<td>28.5 g</td>
<td>Die-Cast Aluminum</td>
<td>LW123C-45</td>
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<td>Composite</td>
<td>LW123P-45</td>
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<tr>
<td>4/C</td>
<td>2.75&quot;</td>
<td>2&quot;</td>
<td>2.155&quot;</td>
<td>2.5&quot;</td>
<td>0.58&quot;</td>
<td>0.3&quot; - 0.58&quot;</td>
<td>35 g</td>
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<td>5/D</td>
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<td>2&quot;</td>
<td>2.085&quot;</td>
<td>2.406&quot;</td>
<td>0.69&quot;</td>
<td>0.4&quot; - 0.65&quot;</td>
<td>38 g</td>
<td>Die-Cast Aluminum</td>
<td>LW165C-45</td>
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</table>

Notes:
1. The parts shown in the above table are standard items. Other strain relief diameters can be available upon request.
2. Parts are packaged unassembled.
### Compact D-Sub Backshells

#### 90° EXIT ANGLE BACKSHELL

**Features**
» 90° cable exit

**Ideal Applications**
» Aerospace video and Ethernet
» EMI protection
» Weight sensitive

**Kit Contents**
» 2 shell halves
» 2 screws

**Standard Material**
» Shell - cast aluminum alloy with electro-less nickel plating
» Flat head screws - stainless steel

**Optional Material**
» Zinc alloy or metalized plastic
» Additional plating upon request

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Dimensions</th>
<th>Cable DIA (Min-Max)</th>
<th>Weight</th>
<th>Material</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/E</td>
<td>1.23&quot; x 1.33&quot; x 0.95&quot; x 0.984&quot; x 0.52&quot;</td>
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<td>0.15&quot; - 0.35&quot;</td>
<td>15 g</td>
<td>Die-Cast Aluminum</td>
<td>LW092C-90</td>
</tr>
<tr>
<td>2/A</td>
<td>1.55&quot; x 1.55&quot; x 1.1&quot; x 1.312&quot; x 0.56&quot;</td>
<td>0.2&quot; - 0.48&quot;</td>
<td>10.5 g</td>
<td>Composite</td>
<td>LW122P-60</td>
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<tr>
<td>2/A</td>
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<td>0.2&quot; - 0.48&quot;</td>
<td>14 g</td>
<td>Composite</td>
<td>LW122P-90</td>
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<tr>
<td>3/B</td>
<td>2.1&quot; x 2.2&quot; x 1.2&quot; x 1.852&quot; x 0.56&quot;</td>
<td>0.2&quot; - 0.48&quot;</td>
<td>18 g</td>
<td>Die-Cast Aluminum</td>
<td>LW123C-90</td>
</tr>
<tr>
<td>3/B</td>
<td>1.55&quot; x 1.55&quot; x 1.1&quot; x 1.312&quot; x 0.54&quot;</td>
<td>0.2&quot; - 0.48&quot;</td>
<td>16 g</td>
<td>Composite</td>
<td>LW123P-90</td>
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<tr>
<td>4/C</td>
<td>2.75&quot; x 2.84&quot; x 1.5&quot; x 2.5&quot; x 0.54&quot;</td>
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<td>32 g</td>
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<tr>
<td>5/D</td>
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<td>0.4&quot; - 0.65&quot;</td>
<td>34 g</td>
<td>Die-Cast Aluminum</td>
<td>LW165C-90</td>
</tr>
</tbody>
</table>

*Design in development only. Notes:
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2. Parts are packaged unassembled.

See CarlisleIT’s line of Backshells at: CarlisleIT.com/products/connectors-accessories/backshells

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