Experience

- Founded in 1966
- Involvement in the development of international connector specifications through EIA®, IEC and ISO as well as PICMG®.
- Introduction of new and unique connector products to the electronics industry.
- Patent holder for many unique connector features and manufacturing techniques.
- Vertically integrated manufacturing – raw materials to finished connectors.

Technology

- Expertise with solid machined contacts provides a variety of high reliability connectors including high current density power connectors.
- Quality Assurance lab is capable of testing to IEC, EIA, UL, CUL, military and customer-specified requirements.
- In-house design and development of connectors based on market need or individual customer requirements.
- Internal manufacturing capabilities include automatic precision contact machining, injection molding, stamping, plating operations and connector assembly.
- Manufacturing locations in southwest Missouri, U.S.A. (headquarters); Puerto Rico, France, China, Singapore, and India. Total square footage: 407,441.

Support

- Compliance to a variety of international and customer specific environmental requirements.
- Large in-house inventory of finished connectors. Customer specific stocking programs.
- Factory direct technical sales support in major cities worldwide.
- One-on-one customer support from worldwide factory locations.
- World class web site.
- Value-added solutions and willingness to develop custom products with reasonable price and delivery.

Regional Headquarters

Springfield, MO  Auch, France  Singapore

Positronic Industries’ FEDERAL SUPPLY CODE (Cage Code) FOR MANUFACTURERS is 28198

Unless otherwise specified, dimensional tolerances are:
1) ±0.001 inches [0.03 mm] for male contact mating diameters.
2) ±0.003 inches [0.08 mm] for contact termination diameters.
3) ±0.005 inches [0.13 mm] for all other diameters.
4) ±0.015 inches [0.38 mm] for all other dimensions.

POSITRONIC® IS AN ITAR REGISTERED COMPANY

Information in this catalog is proprietary to Positronic and its subsidiaries. Positronic believes the data contained herein to be reliable. Since the technical information is given free of charge, the user employs such information at his own discretion and risk. Positronic Industries assumes no responsibility for results obtained or damages incurred from use of such information in whole or in part.

The following trademarks are registered to Positronic Industries, Inc. in the United States and many other countries: Positronic Industries, Inc.®, Positronic®, Connector Excellence®, P+ logo®, PosiBand®, PosiShop®, Positronic Global Connector Solutions®, Global Connector Solutions®. The color blue as it appears on various connectors is a trademark of Positronic Industries, Inc., Registered in U.S. Patent and Trademark Office.
This catalog should be accompanied by copies of Positronic’s high reliability D-subminiature connector catalogs. Contact your sales representative or visit www.connectpositronic.com for copies of these catalogs.

STANDARD AND HIGH DENSITY D-SUBMINIATURE CONNECTORS

CONNECTOR SAVERS GENDER CHANGERS

PRESS-IN CONNECTORS

DUAL-PORT STACKED CONNECTORS

ENVIRONMENTAL D-SUBMINIATURE CONNECTORS

STANDARD AND HIGH DENSITY COMBO-D CONNECTORS

HIGH PERFORMANCE D-SUBMINIATURE CONNECTORS, INCLUDING SPACEFLIGHT

TERMINATION TYPES:
Signal, Power, High Voltage, Shielded, and Thermocouple

MULTIPLE PERFORMANCE LEVELS FOR BEST COST/PERFORMANCE RATIO
**Mounting Brackets**

- Riveted on Right Angle (90°) Mounting Brackets ................................................................. 1
- Push-on Fastener for Riveted on Right Angle (90°) Mounting Brackets ................................. 1
- Rapid Installation into Printed Circuit Board
- Right Angle (90°) Metal Mounting Bracket .............................................................................. 2
  Supplied with Riveted-on Bracket Assemblies
- Right Angle (90°) Metal Mounting Bracket .............................................................................. 2
  Secured to Connector with Threaded Fasteners
- Right Angle (90°) Plastic Mounting Bracket ........................................................................... 3
  Secured to Connector with Threaded Fasteners
- Right Angle (90°) Plastic Mounting Bracket with Threaded Insert ......................................... 3
  Secured to Connector with Threaded Fasteners
- Right Angle (90°) Plastic Mounting Bracket with Alignment Bar ........................................... 3
  Supplied with Standard Density MIL-DTL-24308/24 and /24 Connectors

**Posts and Spacers**

- Swaged Spacer .......................................................................................................................... 4
- Swaged Spacers ......................................................................................................................... 4
- Swaged Locknut ......................................................................................................................... 4
- Swaged spacer with push-on Fastener ....................................................................................... 4
  Rapid installation into printed circuit board
- Threaded Post ................................................................................................................................ 5

**Panel / Bulkhead Mounting Options**

- Mounting Options ...................................................................................................................... 6
- Panel Cutouts ............................................................................................................................... 7-8

**Ferrite Inductor**

- Ferrite Inductor Bar for EMI/RFI Noise Suppression ................................................................. 9

**Cable Adapters (Hoods/Backshells)**

- Typical Jackscrew Locking / Coding Options .......................................................................... 11
- Typical Quick Disconnect Locking Device Options ................................................................. 12
- Lightweight Aluminum Cable Adapter (Hood) ......................................................................... 13
  General Information
- Lightweight Aluminum Cable Adapter (Hood) .......................................................................... 14
  With Fixed Female Jackscrews

---

**Dimensions are in inches [millimeters].**
All dimensions are subject to change.

continued on next page . . .
### CABLE ADAPTERS (HOODS/BACKSHELLS)....continued

<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lightweight Aluminum Cable Adapter (Hood) With Rotating Jackscrews</td>
<td>15</td>
</tr>
<tr>
<td>Lightweight Aluminum Cable Adapter (Hood) With Quick Disconnect Locking Device</td>
<td>16</td>
</tr>
<tr>
<td>EMI/RFI Metal Cable Adapter (Hood) With Rotating Jackscrews</td>
<td>17</td>
</tr>
<tr>
<td>EMI/RFI Metal Cable Adapter (Hood) With Quick Disconnect Locking Device</td>
<td>18</td>
</tr>
<tr>
<td>EMI/RFI Metal Cable Adapter (Hood) With M3 Threads</td>
<td>19</td>
</tr>
<tr>
<td>EMI/RFI Adapter</td>
<td>19</td>
</tr>
<tr>
<td>Crimp Ferrule Systems For Use With Code G Cable Adapters (Hoods)</td>
<td>20</td>
</tr>
<tr>
<td>Metal Cable Adapter (Hood)</td>
<td>21</td>
</tr>
<tr>
<td>Plastic Cable Adapter (Hood)</td>
<td>21</td>
</tr>
<tr>
<td>Low Profile Cable Adapter (Hood)</td>
<td>22</td>
</tr>
<tr>
<td>Plastic Cable Adapter (Hood) With Rotating Jackscrews</td>
<td>23</td>
</tr>
<tr>
<td>Size 50 Plastic Cable Adapter (Hood) With Rotating Jackscrews</td>
<td>24</td>
</tr>
<tr>
<td>Size 104 Composite Cable Adapter (Hood) With Rotating Jackscrews</td>
<td>24</td>
</tr>
<tr>
<td>EMI/RFI Composite Cable Adapters (Hoods) With Jackscrews</td>
<td>25</td>
</tr>
</tbody>
</table>

### LOCKING AND CODING SYSTEMS

<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jackscrew Systems</td>
<td>27</td>
</tr>
<tr>
<td>Coding Device (Keying) Jackscrew Systems</td>
<td>27</td>
</tr>
<tr>
<td>Quick Disconnect Locking Device</td>
<td>28</td>
</tr>
</tbody>
</table>

### UNIQUE FEATURES

<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flared Connector Housing (Shells)</td>
<td>29</td>
</tr>
<tr>
<td>Low Profile Mounting Bracket</td>
<td>30</td>
</tr>
<tr>
<td>Captive Alignment Bars</td>
<td>30</td>
</tr>
<tr>
<td>Protective Cover</td>
<td>31</td>
</tr>
<tr>
<td>Interfacial Seal</td>
<td>31</td>
</tr>
<tr>
<td>Blind Mating System</td>
<td>32</td>
</tr>
<tr>
<td>Swageable Plastic Mounting Bracket With Alignment Bar</td>
<td>33</td>
</tr>
<tr>
<td>Cul-de-Sac Style Mounting Accessories</td>
<td>33</td>
</tr>
<tr>
<td>Coding Device (Keying) Options</td>
<td>33</td>
</tr>
</tbody>
</table>

**Dimensions are in inches [millimeters]. All dimensions are subject to change.**
RIVETED ON RIGHT ANGLE (90°) MOUNTING BRACKETS

CODE R, R2, R3, R4, R5, R6, R7 AND R8

R/R2

R3/R6

R4/R7

R5/R8

For dimensional information, see chart on page 2

Material: Copper alloy or steel with zinc plate and chromate seal or tin plate; stainless steel passivated.

NOTES:

*1 Non-removable threaded hardware is built and inspected to 5 in/lbs or 80 in/oz torque.

*2 Contact alignment bar is supplied with R2, R6, R7 and R8 options only.

PUSH-ON FASTENER FOR RIVETED ON RIGHT ANGLE (90°) MOUNTING BRACKETS

RAPID INSTALLATION INTO PRINTED CIRCUIT BOARD

CODE N

CBD27W2F57R7N00 (shown left)

ODD15F4R7N0X (shown center)

HDC50S5R7N00-50 (shown right)

TYPICAL PERFORMANCE EVALUATION DATA

<table>
<thead>
<tr>
<th>SAMPLE #</th>
<th>PRINTED BOARD HOLE Ø</th>
<th>INSERTION FORCE (LBS.)</th>
<th>RETENTION FORCE (LBS.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.120 [3.05]</td>
<td>7-1/4</td>
<td>5-3/4</td>
</tr>
<tr>
<td>2</td>
<td>0.123 [3.12]</td>
<td>5-3/4</td>
<td>5-1/2</td>
</tr>
<tr>
<td>3</td>
<td>0.125 [3.18]</td>
<td>2-3/4</td>
<td>2-1/2</td>
</tr>
<tr>
<td>4</td>
<td>0.128 [3.25]</td>
<td>1-3/4</td>
<td>2-1/4</td>
</tr>
<tr>
<td>5</td>
<td>0.126 [3.20] PLATED</td>
<td>1-3/4</td>
<td>2-1/4</td>
</tr>
</tbody>
</table>

Printed board mounting hole to be 0.123 [3.12] Ø ±0.003 for use with push-on fastener.

Material: Beryllium copper, tin plate.

DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.
### RIGHT ANGLE (90°) METAL MOUNTING BRACKET

**SUPPLIED WITH RIVETED-ON BRACKET ASSEMBLIES**

**CODE R, R2*, R3, R4, R5, R6*, R7*, AND R8**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>SIZE</th>
<th>MD</th>
<th>MDX</th>
<th>ED</th>
<th>CBD</th>
<th>CBDD</th>
<th>HDC</th>
<th>DD</th>
<th>PCD</th>
<th>ODD</th>
</tr>
</thead>
<tbody>
<tr>
<td>4535-1-1</td>
<td>0.506</td>
<td>0.623</td>
<td>0.266</td>
<td>0.358</td>
<td>9-37</td>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-2-1</td>
<td>0.339</td>
<td>0.456</td>
<td>0.246</td>
<td>0.358</td>
<td>9-37</td>
<td>5</td>
<td>5</td>
<td>5, 55, 57</td>
<td>5</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-3-1</td>
<td>0.562</td>
<td>0.679</td>
<td>0.303</td>
<td>0.414</td>
<td>29</td>
<td>5</td>
<td>5</td>
<td>5, 55, 57</td>
<td>5</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-4-1</td>
<td>0.562</td>
<td>0.679</td>
<td>0.303</td>
<td>0.414</td>
<td>29</td>
<td>5</td>
<td>5</td>
<td>5, 55, 57</td>
<td>5</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-5-1</td>
<td>0.657</td>
<td>0.718</td>
<td>0.246</td>
<td>0.358</td>
<td>9-37</td>
<td>59</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-6-1</td>
<td>0.657</td>
<td>0.718</td>
<td>0.246</td>
<td>0.358</td>
<td>9-37</td>
<td>59</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-7-1</td>
<td>0.425</td>
<td>0.567</td>
<td>0.184</td>
<td>0.262</td>
<td>0.09</td>
<td>15-62</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-8-1</td>
<td>0.425</td>
<td>0.567</td>
<td>0.184</td>
<td>0.262</td>
<td>0.09</td>
<td>15-62</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-9-1</td>
<td>0.476</td>
<td>0.587</td>
<td>0.303</td>
<td>0.414</td>
<td>29</td>
<td>42, 44, 52</td>
<td>7, 75, 77</td>
<td>42</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-32-1</td>
<td>0.414</td>
<td>0.531</td>
<td>0.246</td>
<td>0.358</td>
<td>15-62</td>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-33-1</td>
<td>0.414</td>
<td>0.531</td>
<td>0.246</td>
<td>0.358</td>
<td>15-62</td>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-34-1</td>
<td>0.528</td>
<td>0.657</td>
<td>0.246</td>
<td>0.358</td>
<td>15-62</td>
<td>5</td>
<td>4</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-35-1</td>
<td>0.573</td>
<td>0.690</td>
<td>0.303</td>
<td>0.414</td>
<td>78</td>
<td>5</td>
<td>4</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-61-1</td>
<td>0.514</td>
<td>0.631</td>
<td>0.334</td>
<td>0.457</td>
<td>104</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-62-1</td>
<td>0.614</td>
<td>0.731</td>
<td>0.334</td>
<td>0.445</td>
<td>104</td>
<td>5</td>
<td>4</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Sold only as part of a connector assembly.

Any bracket shown can be supplied in non-standard configurations. Consult Technical Sales.

### RIGHT ANGLE (90°) METAL MOUNTING BRACKET

**SECURED TO CONNECTOR WITH THREADED FASTENERS**

**CODE B AND B3**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>STYLE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>SIZE</th>
<th>MD</th>
<th>MDX</th>
<th>ED</th>
<th>CBD</th>
<th>CBDD</th>
<th>HDC</th>
<th>DD</th>
<th>PCD</th>
<th>ODD</th>
</tr>
</thead>
<tbody>
<tr>
<td>4535-1-0</td>
<td>2</td>
<td>0.491</td>
<td>0.608</td>
<td>0.246</td>
<td>0.358</td>
<td>9-37</td>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-2-0</td>
<td>1</td>
<td>0.324</td>
<td>0.464</td>
<td>0.244</td>
<td>0.358</td>
<td>9-37</td>
<td>5</td>
<td>5</td>
<td>5, 55, 57</td>
<td>5</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-3-0</td>
<td>1</td>
<td>0.380</td>
<td>0.594</td>
<td>0.303</td>
<td>0.417</td>
<td>29</td>
<td>5</td>
<td>5</td>
<td>5, 55, 57</td>
<td>5</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-4-0</td>
<td>2</td>
<td>0.547</td>
<td>0.664</td>
<td>0.303</td>
<td>0.417</td>
<td>29</td>
<td>5</td>
<td>5</td>
<td>5, 55, 57</td>
<td>5</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-5-0</td>
<td>3</td>
<td>0.554</td>
<td>0.739</td>
<td>0.344</td>
<td>0.414</td>
<td>9-37</td>
<td>59</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-6-0</td>
<td>3</td>
<td>0.604</td>
<td>0.800</td>
<td>0.303</td>
<td>0.417</td>
<td>29, 59</td>
<td>59</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-8-0</td>
<td>2</td>
<td>0.465</td>
<td>0.572</td>
<td>0.303</td>
<td>0.414</td>
<td>29</td>
<td>42, 44, 52</td>
<td>7, 75, 77</td>
<td>42</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-9-0</td>
<td>2</td>
<td>0.465</td>
<td>0.572</td>
<td>0.303</td>
<td>0.414</td>
<td>29</td>
<td>42, 44, 52</td>
<td>7, 75, 77</td>
<td>42</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-32-0</td>
<td>2</td>
<td>0.399</td>
<td>0.516</td>
<td>0.246</td>
<td>0.358</td>
<td>15-62</td>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-33-0</td>
<td>2</td>
<td>0.399</td>
<td>0.516</td>
<td>0.246</td>
<td>0.358</td>
<td>15-62</td>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-61-0</td>
<td>2</td>
<td>0.514</td>
<td>0.631</td>
<td>0.334</td>
<td>0.457</td>
<td>104</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-62-0</td>
<td>2</td>
<td>0.614</td>
<td>0.731</td>
<td>0.334</td>
<td>0.445</td>
<td>104</td>
<td>5</td>
<td>4</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Sold only as part of a connector assembly.

Any bracket shown can be supplied in non-standard configurations. Consult Technical Sales.

### Material:
- Brass with zinc plate and chromate seal, or tin plate; stainless steel, passivated.

### Code B and B3

**STYLE 1**

**STYLE 2**

**STYLE 3**

**Dimensions are in inches [millimeters]. All dimensions are subject to change.**

---

*1 Alignment bar is supplied with R2, R6, R7 and R8 options only.

*2 0.062 [1.57] thick for size 104 DD & ODD series and CBD46W4 variant.
## RIGHT ANGLE (90°) PLASTIC MOUNTING BRACKET
### SECURED TO CONNECTOR WITH THREADED FASTENERS
### CODE B7 AND B8

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>STYLE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>SIZE</th>
<th>MD</th>
<th>MDX</th>
<th>ED</th>
<th>CBD</th>
<th>CBDD</th>
<th>HDC</th>
<th>DD</th>
<th>ODD</th>
</tr>
</thead>
</table>
| 4544-6-0 | 1     | 0.450 | 0.244 | 0.749 | 0.544 | 9 - 37 | 4 | 5, 4 | 4 | 4 | 5 | 4 | 4 | 4
| 4544-7-0 | 2     | 0.565 | 0.303 | 0.790 | 0.609 | 9 - 37 | 5 | 5 | 4 | 2 | 5 | 4 | 2 | 5 | 4

### NOTE:
*1 Alignment bar supplied with B8 option.

### MATERIAL:
Nylon or polyester.

### RIGHT ANGLE (90°) PLASTIC MOUNTING BRACKET WITH THREADED INSERT
### SECURED TO CONNECTOR WITH THREADED FASTENERS
### CODE B9 AND B10

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>STYLE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>SIZE</th>
<th>MD</th>
<th>MDX</th>
<th>ED</th>
<th>CBD</th>
<th>CBDD</th>
<th>HDC</th>
<th>DD</th>
<th>ODD</th>
</tr>
</thead>
</table>
| 4544-6-1 | 1     | 0.450 | 0.244 | 0.749 | 0.544 | 9 - 37 | 4 | 5 | 4 | 4 | 5 | 4 | 4 | 4
| 4544-7-1 | 2     | 0.565 | 0.303 | 0.790 | 0.609 | 9 - 37 | 5 | 5 | 4 | 2 | 5 | 4 | 2 | 5 | 4

### NOTE:
*1 Alignment bar supplied with B10 option.

### MATERIAL:
Nylon or polyester.

### RIGHT ANGLE (90°) PLASTIC MOUNTING BRACKET WITH ALIGNMENT BAR
### SUPPLIED WITH STANDARD DENSITY MIL-DTL-24308/23 AND /24 CONNECTORS

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>4544-11-1</td>
<td>1.218</td>
<td>0.247</td>
<td>0.980</td>
</tr>
<tr>
<td>4544-12-2</td>
<td>1.564</td>
<td>0.247</td>
<td>1.312</td>
</tr>
<tr>
<td>4544-11-3</td>
<td>2.093</td>
<td>0.247</td>
<td>1.852</td>
</tr>
<tr>
<td>4544-11-4</td>
<td>2.734</td>
<td>0.247</td>
<td>2.500</td>
</tr>
<tr>
<td>4544-12-4</td>
<td>2.645</td>
<td>0.303</td>
<td>2.406</td>
</tr>
</tbody>
</table>

### MATERIAL:
Nylon or polyester.

May be supplied on special order with the MD, MDX and HDC printed board mount connectors.

### NOTE:
Sold only as part of a connector assembly.

---

**DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.**
# SWAGED SPACERS

**CONNECTOR SERIES** | **TERMINATION CODE NUMBER** | **A**
--- | --- | ---
MD, MDX, ED, HDC | all | 0.225 [5.72]
ODD | 0, 1 | 0.375 [9.53]
| 2, 21, 3, 32, 4, 5 | 0.225 [5.72]
RD, ORD, DD, CBC, CBCD | all | 0.375 [9.53]
SD | all | 0.437 [11.10]
CBD, CBDD, CBM | solder cup & solder board mount | 0.250 [6.35]
| press-in | 0.285 [7.23]
PCD, PCDD | 98 | 0.265 [6.73]

**Material:** Copper alloy or steel with zinc plate and chromate seal or tin plate; stainless steel passivated.

### SWAGED SPACERS

**CODE S2, S3, AND S4**

**NOTES:**

*1 Non-removable threaded hardware is built and inspected to 5in/lbs or 80 in/oz torque.

### SWAGED LOCKNUT

**CODE S5**

**NOTES:**

*1 Non-removable threaded hardware is built and inspected to 5in/lbs or 80 in/oz torque.

**Material:** Copper alloy or steel with zinc plate and chromate seal or tin plate; stainless steel, passivated. Nylon or polyester locknut insert.

### SWAGED SPACER WITH PUSH-ON FASTENER

**RAPID INSTALLATION INTO PRINTED CIRCUIT BOARD**

**CONNECTOR SERIES** | **TERMINATION CODE NUMBER** | **A**
--- | --- | ---
MD, MDX, ED, HDC | all | 0.225 [5.72]
ODD | 0, 1 | 0.375 [9.53]
| 2, 21, 3, 32 | 0.225 [5.72]
RD, ORD, DD, CBC, CBCD | all | 0.375 [9.53]
SD | all | 0.437 [11.10]
CBD, CBDD, CBM | all | 0.250 [6.35]

**Material:** Phosphor bronze, tin plate.

---

*All dimensions are in inches [millimeters]. All dimensions are subject to change.
Material: P - Brass with zinc plate and chromate seal or tin plate; stainless steel, passivated. P2 - Nylon.

Positronic’s D-subminiature Accessories are available in RoHS compliant materials. These materials will be supplied when the connector part number designates the RoHS modifier "/AA".

Connectors Designed To Customer Specifications

Positronic D-subminiature connectors can be modified to customers specifications.

Examples: select loading of contacts for cost savings or to gain creepage and clearance distances; longer printed circuit board terminations; customer specified hardware; sealing for water resistance.

Contact Technical Sales with your particular requirements.
MOUNTING OPTIONS
CODE 0, 02, F

THRU HOLE MOUNTING (0)

0.120±0.005 [ø3.05±0.13] Mounting hole, two places for non-stainless steel connector housing (shells)

FLOAT MOUNTS (F)

0.120±0.010 [3.08±0.25]
0.032 [0.81]
Total diametral float

0.086 +0.005/-0.000 [ø2.18 +0.13/-0.00] Mounting hole, two places

Do you need 2-D drawings or 3-D models?

Once you have made a connector selection, contact Technical Sales if you would like a 2-D drawing or 3-D model. If we do not have your specific part number on file, we can create one for you. Or, please visit www.connectpositronic.com and use the search function.
## PANEL / BULKHEAD MOUNTING OPTIONS

### PANEL CUTOUTS

**STANDARD CUTOUT**

- **A** ≤ 0.005 [±0.13]
- **B** ≤ 0.005 [±0.13]
- **C** ≤ 0.005 [±0.13]
- **D** ≤ 0.005 [±0.13]
- **E** ≤ 0.005 [±0.13]
- **F** ≤ 0.005 [±0.13]
- **G** ≤ 0.002 [±0.05]
- **H** ≤ 0.002 [±0.05]
- **J** ≤ 0.002 [±0.05]
- **K** ≤ 0.005 [±0.13]

**MOUNTING OPTIONS**

- **FRONT**
  - **CLEARANCE HOLE**: FRONT
  - **FLOAT MOUNT**: FRONT
  - **BLIND MATE FLOAT PLATE**: FRONT
- **REAR**
  - **CLEARANCE HOLE**: REAR
  - **FLOAT MOUNT**: REAR
  - **BLIND MATE FLOAT PLATE**: REAR

**SHELL SIZE 1**

<table>
<thead>
<tr>
<th>PANEL CUTOOUT OPTIONS</th>
<th>MOUNTING</th>
<th>A [±0.13]</th>
<th>B [±0.13]</th>
<th>C [±0.13]</th>
<th>D [±0.13]</th>
<th>E [±0.13]</th>
<th>F [±0.13]</th>
<th>G [±0.05]</th>
<th>H [±0.05]</th>
<th>J [±0.05]</th>
<th>K [±0.13]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRONT</td>
<td><strong>A</strong> 0.874 [22.20]</td>
<td><strong>B</strong> 0.437 [11.10]</td>
<td><strong>C</strong> 0.984 [24.99]</td>
<td><strong>D</strong> 0.492 [12.50]</td>
<td><strong>E</strong> 0.513 [13.03]</td>
<td><strong>F</strong> 0.257 [6.53]</td>
<td><strong>G</strong> 0.120 [3.05]</td>
<td><strong>H</strong> 0.060 [1.52]</td>
<td><strong>J</strong> 0.083 [2.11]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REAR</td>
<td><strong>A</strong> 0.806 [20.47]</td>
<td><strong>B</strong> 0.403 [10.24]</td>
<td><strong>C</strong> 0.984 [24.99]</td>
<td><strong>D</strong> 0.492 [12.50]</td>
<td><strong>E</strong> 0.449 [11.40]</td>
<td><strong>F</strong> 0.225 [5.72]</td>
<td><strong>G</strong> 0.120 [3.05]</td>
<td><strong>H</strong> 0.060 [1.52]</td>
<td><strong>J</strong> 0.132 [3.35]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SHELL SIZE 2**

<table>
<thead>
<tr>
<th>PANEL CUTOOUT OPTIONS</th>
<th>MOUNTING</th>
<th>A [±0.13]</th>
<th>B [±0.13]</th>
<th>C [±0.13]</th>
<th>D [±0.13]</th>
<th>E [±0.13]</th>
<th>F [±0.13]</th>
<th>G [±0.05]</th>
<th>H [±0.05]</th>
<th>J [±0.05]</th>
<th>K [±0.13]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRONT</td>
<td><strong>A</strong> 1.202 [30.53]</td>
<td><strong>B</strong> 0.601 [15.27]</td>
<td><strong>C</strong> 1.312 [33.32]</td>
<td><strong>D</strong> 0.656 [16.66]</td>
<td><strong>E</strong> 0.513 [13.03]</td>
<td><strong>F</strong> 0.257 [6.53]</td>
<td><strong>G</strong> 0.120 [3.05]</td>
<td><strong>H</strong> 0.060 [1.52]</td>
<td><strong>J</strong> 0.083 [2.11]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REAR</td>
<td><strong>A</strong> 1.134 [29.00]</td>
<td><strong>B</strong> 0.567 [14.40]</td>
<td><strong>C</strong> 1.312 [33.32]</td>
<td><strong>D</strong> 0.656 [16.66]</td>
<td><strong>E</strong> 0.449 [11.40]</td>
<td><strong>F</strong> 0.225 [5.72]</td>
<td><strong>G</strong> 0.120 [3.05]</td>
<td><strong>H</strong> 0.060 [1.52]</td>
<td><strong>J</strong> 0.132 [3.35]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SHELL SIZE 3**

<table>
<thead>
<tr>
<th>PANEL CUTOOUT OPTIONS</th>
<th>MOUNTING</th>
<th>A [±0.13]</th>
<th>B [±0.13]</th>
<th>C [±0.13]</th>
<th>D [±0.13]</th>
<th>E [±0.13]</th>
<th>F [±0.13]</th>
<th>G [±0.05]</th>
<th>H [±0.05]</th>
<th>J [±0.05]</th>
<th>K [±0.13]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRONT</td>
<td><strong>A</strong> 1.743 [44.27]</td>
<td><strong>B</strong> 0.872 [22.15]</td>
<td><strong>C</strong> 1.852 [47.04]</td>
<td><strong>D</strong> 0.926 [23.52]</td>
<td><strong>E</strong> 0.513 [13.03]</td>
<td><strong>F</strong> 0.257 [6.53]</td>
<td><strong>G</strong> 0.120 [3.05]</td>
<td><strong>H</strong> 0.060 [1.52]</td>
<td><strong>J</strong> 0.083 [2.11]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REAR</td>
<td><strong>A</strong> 1.674 [42.52]</td>
<td><strong>B</strong> 0.837 [21.26]</td>
<td><strong>C</strong> 1.852 [47.04]</td>
<td><strong>D</strong> 0.926 [23.52]</td>
<td><strong>E</strong> 0.449 [11.40]</td>
<td><strong>F</strong> 0.225 [5.72]</td>
<td><strong>G</strong> 0.120 [3.05]</td>
<td><strong>H</strong> 0.060 [1.52]</td>
<td><strong>J</strong> 0.132 [3.35]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CHART CONTINUED ON NEXT PAGE**

**DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.**
<table>
<thead>
<tr>
<th>SHELL SIZE</th>
<th>PANEL CUTOUT OPTIONS</th>
<th>MOUNTING</th>
<th>A ±0.005 [±0.13]</th>
<th>B ±0.005 [±0.13]</th>
<th>C ±0.005 [±0.13]</th>
<th>D ±0.005 [±0.13]</th>
<th>E ±0.005 [±0.13]</th>
<th>F ±0.005 [±0.13]</th>
<th>G ±0.002 [±0.05]</th>
<th>H ±0.002 [±0.05]</th>
<th>J ±0.002 [±0.05]</th>
<th>K ±0.005 [±0.13]</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECIAL SIZE 29</td>
<td>CLEARANCE HOLE FRONT</td>
<td>1.425 [36.20]</td>
<td>0.713 [18.11]</td>
<td>1.534 [38.96]</td>
<td>0.767 [19.48]</td>
<td>0.623 [15.82]</td>
<td>0.312 [7.92]</td>
<td>0.120 [3.05]</td>
<td>0.060 [1.52]</td>
<td>0.083 [2.11]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>REAR</td>
<td>1.356 [34.44]</td>
<td>0.678 [17.22]</td>
<td>1.534 [38.96]</td>
<td>0.767 [19.48]</td>
<td>0.555 [14.10]</td>
<td>0.278 [7.06]</td>
<td>0.120 [3.05]</td>
<td>0.060 [1.52]</td>
<td>0.132 [3.35]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FLOAT MOUNT FRONT</td>
<td>1.457 [37.01]</td>
<td>0.729 [18.52]</td>
<td>1.534 [38.96]</td>
<td>0.767 [19.48]</td>
<td>0.655 [16.64]</td>
<td>0.328 [8.33]</td>
<td>0.088 [2.24]</td>
<td>0.044 [1.12]</td>
<td>0.083 [2.11]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHELL SIZE 4</td>
<td>CLEARANCE HOLE FRONT</td>
<td>2.391 [60.73]</td>
<td>1.196 [30.38]</td>
<td>2.500 [63.50]</td>
<td>1.250 [31.75]</td>
<td>0.513 [13.03]</td>
<td>0.257 [6.53]</td>
<td>0.120 [3.05]</td>
<td>0.060 [1.52]</td>
<td>0.083 [2.11]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>REAR</td>
<td>2.326 [59.08]</td>
<td>1.163 [29.54]</td>
<td>2.500 [63.50]</td>
<td>1.250 [31.75]</td>
<td>0.449 [11.40]</td>
<td>0.225 [5.72]</td>
<td>0.120 [3.05]</td>
<td>0.060 [1.52]</td>
<td>0.132 [3.35]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHELL SIZE 5</td>
<td>CLEARANCE HOLE FRONT</td>
<td>2.297 [58.34]</td>
<td>1.149 [29.18]</td>
<td>2.406 [61.11]</td>
<td>1.203 [30.56]</td>
<td>0.623 [15.82]</td>
<td>0.312 [7.92]</td>
<td>0.120 [3.05]</td>
<td>0.060 [1.52]</td>
<td>0.083 [2.11]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHELL SIZE 6</td>
<td>CLEARANCE HOLE FRONT</td>
<td>2.421 [61.49]</td>
<td>1.211 [30.76]</td>
<td>2.500 [63.50]</td>
<td>1.250 [31.75]</td>
<td>0.685 [17.40]</td>
<td>0.343 [8.71]</td>
<td>0.120 [3.05]</td>
<td>0.060 [1.52]</td>
<td>0.083 [2.11]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>REAR</td>
<td>2.343 [59.51]</td>
<td>1.172 [29.77]</td>
<td>2.500 [63.50]</td>
<td>1.250 [31.75]</td>
<td>0.617 [15.67]</td>
<td>0.309 [7.85]</td>
<td>0.120 [3.05]</td>
<td>0.060 [1.52]</td>
<td>0.132 [3.35]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
FERRITE INDUCTOR BAR\(^1\) FOR EMI/RFI NOISE SUPPRESSION
CODE F AND Q\(^2\)

**FILTERING CHARACTERISTICS**

<table>
<thead>
<tr>
<th>IMPEDANCE [OHMS]</th>
<th>ATTENUATION [dB]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>60</td>
<td>60</td>
</tr>
</tbody>
</table>

**NOTE:**
* NO-LOAD CONDITION

**IMPEDANCE**

**FREQUENCY**

0.010 [0.25] nominal

Fixed Female Jackscrews

Swaged spacer with push-on fastener of phosphor bronze.

**STRAIGHT PRINTED BOARD MOUNT CONNECTOR**

**RIGHT ANGLE (90°) PRINTED BOARD MOUNT CONNECTOR**

**FERRITE INDUCTOR AVAILABILITY**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>CODE NUMBER</th>
<th>A</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD, MDX, HDC</td>
<td>32</td>
<td>0.375 [9.53]</td>
<td>0.240 [6.10]</td>
</tr>
<tr>
<td>ODD, CBDD</td>
<td>32</td>
<td>0.375 [9.53]</td>
<td>0.165 [4.19]</td>
</tr>
<tr>
<td>DD</td>
<td>36</td>
<td>0.515 [13.08]</td>
<td>0.165 [4.19]</td>
</tr>
<tr>
<td>ED, HDC</td>
<td>36</td>
<td>0.375 [9.53]</td>
<td>0.101 [2.57]</td>
</tr>
<tr>
<td>MD, MDX</td>
<td>4</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>ODD</td>
<td>5</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>MD</td>
<td>59</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>MD, HDC</td>
<td>6</td>
<td>0.375 [9.53]</td>
<td>0.360 [9.14]</td>
</tr>
</tbody>
</table>

**NOTES:**

*1 This bar option is available for connector housings (shells) 9, 15, 25, and 37. Ferrite beads are used for the other sizes. Contact Technical Sales for ferrite inductor ordering information on those connectors.

*2 Specify Code F or Q in Step 6 of ordering information. F is for ferrite inductor and Q is for ferrite inductor with push-on fastener.

**Material:** Nickel zinc ceramic.

9 DIMENSIONS ARE IN INCHES [MILLIMETERS].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.
## Technical Characteristics, Quick Reference

<table>
<thead>
<tr>
<th>CABLE ADAPTER</th>
<th>MATERIAL</th>
<th>FINISH</th>
<th>CABLE CLAMP (material, finish)</th>
<th>HARDWARE (material, finish)</th>
<th>UNIQUE ATTRIBUTES</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AN(^1)</td>
<td>aluminum</td>
<td>nickel</td>
<td>aluminum, nickel</td>
<td>steel with nickel plate</td>
<td>light weight, EMI</td>
<td>13-16</td>
</tr>
<tr>
<td>AC(^1)</td>
<td>aluminum</td>
<td>no finish</td>
<td>aluminum, no finish</td>
<td>steel with nickel plate</td>
<td>light weight, EMI</td>
<td>13-16</td>
</tr>
<tr>
<td>G</td>
<td>zinc, die cast</td>
<td></td>
<td>zinc, die cast</td>
<td></td>
<td>EMI/RFI metal</td>
<td>17-20</td>
</tr>
<tr>
<td>H</td>
<td>steel, zinc plate</td>
<td>chromate seal</td>
<td>steel, zinc plate with chromate seal</td>
<td></td>
<td>similar to SAE AS85049/48</td>
<td>21</td>
</tr>
<tr>
<td>J</td>
<td>glass-filled polyester, UL 94V-0</td>
<td></td>
<td>steel, nickel plate</td>
<td></td>
<td>top opening, for vibration applications</td>
<td>21</td>
</tr>
<tr>
<td>L</td>
<td>glass-filled polyester, UL 94V-0</td>
<td></td>
<td>steel, nickel plate</td>
<td></td>
<td>side opening, for vibration applications</td>
<td>21</td>
</tr>
<tr>
<td>QH</td>
<td>glass-filled polyester, UL 94V-0</td>
<td></td>
<td>steel, nickel plate</td>
<td>steel with zinc plate and chromate seal or tin plate; stainless steel, passivated</td>
<td>low profile</td>
<td>22</td>
</tr>
<tr>
<td>W</td>
<td>polypropylene, UL 94V-0</td>
<td></td>
<td></td>
<td>See “CODE W” on page 23 for complete listing of hardware options.</td>
<td>low profile, low cost</td>
<td>23</td>
</tr>
<tr>
<td>Y</td>
<td>composite, conductive volume resistivity</td>
<td></td>
<td></td>
<td></td>
<td>low profile, sizes 50 &amp; 104 only</td>
<td>24</td>
</tr>
<tr>
<td>Z</td>
<td>composite, conductive volume resistivity or glass-filled nylon, UL 94V-0</td>
<td></td>
<td></td>
<td>EMI/RFI composite</td>
<td>25</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**

\(^1\) See “MATERIAL & FINISH OPTION” chart on page 14 for additional options.
Jackscrew options are available with “A”, “G”, “H”, “J”, “L”, “QH”, “W”, “Y” and “Z” cable adapters listed in quick reference chart on page 10. EMI/RFI metal “G” and lightweight aluminum “A” cable adapters are shown in illustration for reference only.

For more information regarding locking/coding jackscrew systems “E”, “T2”, “E6”, “T6” and other jackscrew options, see page 27.
TYPICAL QUICK DISCONNECT LOCKING DEVICE OPTIONS

Lock actuation lever “VL” and front mounted locking tabs “V3” are available with “A”, “G”, “H”, “J” and “L” cable adapters listed in quick reference chart on page 10.

Back mounted locking tabs “V5” options are also available. For detailed information on locking/coding systems see page 28.

Plastic cable adapter “L” and front panel mount “V3” locking tab are shown in illustration for reference only.
This product has been designed for use in applications as a lightweight, EMI cable adapter for D-subminiature connectors. The features of the product are outlined below. Please contact Technical Sales for pricing and additional options.

**Ground Screws**
- Sized and spaced for use with 0.250 inch [6.35mm] diameter ring terminals
- Ground shelf height and ground screw length allow for stacking of ring terminals
- Holes are pre-tapped for ease of installation
- Ground screws are located outside the exiting wire path to facilitate wire routing
- Ground holes are tapped through to the outside which provide for optional external grounding

**Aperture / Strain Relief**
- Appropriate for high density wire bundles using twisted, shielded pairs
- Cable clamps can be “spooned” to provide strain relief for small wire bundle
- Wide form factor allows the user to easily meet bend radius requirements

**Thump Grip**
- Grip facilitates installation and removal in tight spaces

**Spacious Interior**
- Shape maximizes internal area which facilitates harness assembly
- No obstructions behind any portion of the connector body allows cable adapter to be used with Combo-D connectors

**Locking System**
- Available with jackscrews or actuation lock system

**Material and Finishes:**
- **Cable Adapter** & **Cable Clamps:** Aluminum, aluminum with electroless nickel plate; aluminum with yellow anodize; aluminum with yellow chromate conversion. Zinc content is 1% maximum.
- **Jackscrews & Screws:** Steel with nickel plate; brass with zinc plate and chromate seal. Stainless steel options available, contact Technical Sales
- **Actuation Lock System:** Steel with nickel plate.

**Mechanical Characteristics:**
- **Ground Screws:** Can accept up to 0.250 inch [6.35mm] diameter ring terminal.
- **Locking System:** Jackscrews and quick disconnect lock system.

**Electrical Characteristics:**
- **Range of Operation, Calculated Method:** 2 GHz minimum.

**Climatic Characteristics:**
- **Temperature Range:** -55°C to +125°C

**Weight Chart:**

<table>
<thead>
<tr>
<th>CABLE ADAPTER (HOOD) SIZE</th>
<th><strong>D-1000ANVL</strong></th>
<th><strong>D-1000ANE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>1.43 [40.50]</td>
<td>1.08 [30.54]</td>
</tr>
<tr>
<td>15</td>
<td>1.60 [45.24]</td>
<td>1.32 [37.44]</td>
</tr>
<tr>
<td>25</td>
<td>1.95 [55.22]</td>
<td>1.62 [45.92]</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td>Contact Technical Sales</td>
</tr>
<tr>
<td>37</td>
<td>2.53 [71.60]</td>
<td>2.19 [62.06]</td>
</tr>
<tr>
<td>50</td>
<td>2.61 [74.00]</td>
<td>2.26 [63.94]</td>
</tr>
<tr>
<td>104</td>
<td>n/a</td>
<td>2.41 [68.44]</td>
</tr>
</tbody>
</table>

All hardware in a cable adapter assembly including cable clamps, screws, etc.

**Note:**
- *1 Designates size of cable adapter in part number.

continued on page 14
**NOTES:**

*1* For completed part number, insert desired code number from “MATERIAL & FINISH OPTION” chart above.

*2* Smaller cable openings may be achieved by inverting one or both cable clamps.

**TECHNICAL CHARACTERISTICS, continued**

**MATERIAL & FINISH OPTIONS**

<table>
<thead>
<tr>
<th>CODE NUMBER</th>
<th>CABLE ADAPTER (HOOD) &amp; CABLE CLAMP FINISH</th>
<th>HARDWARE TYPE</th>
<th>HARDWARE MATERIAL &amp; FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>N</strong> nickel</td>
<td>T2 E E6 E7 VL V3</td>
<td>steel with nickel plate</td>
<td></td>
</tr>
<tr>
<td><strong>C</strong> no finish</td>
<td>T2 E E6 E7 VL V3</td>
<td>steel with nickel plate</td>
<td></td>
</tr>
</tbody>
</table>

**OPTIONAL MATERIAL & FINISHES**

| **A** anodize | T2 E E6 E7 VL V3 | steel with nickel plate |
| **B** anodize | | brass with zinc plate and chromate seal |
| **D** no finish | | brass with zinc plate and chromate seal |
| **I** yellow chromate conversion | T2 E E6 E7 VL V3 | steel with nickel plate |
| **J** yellow chromate conversion | | brass with zinc plate and chromate seal |

**LIGHTWEIGHT ALUMINUM CABLE ADAPTER (HOOD)**

**WITH FIXED FEMALE JACKSCREWS**

**CODE A** T2

**TYPICAL PART NUMBER:** D25000ANT20

**NOTES:**

*1* For completed part number, insert desired code number from “MATERIAL & FINISH OPTION” chart above.

*2* Smaller cable openings may be achieved by inverting one or both cable clamps.
## LIGHTWEIGHT ALUMINUM CABLE ADAPTER (HOOD) WITH ROTATING JACKSCREWS

### CODE E
#### ROTATING MALE JACKSCREWS

![Diagram](image.png)

**TYPICAL PART NUMBER:** D25000ACE0

[Image](image.png)

**CODE E7**
#### ROTATING FEMALE JACKSCREWS

![Diagram](image.png)

**TYPICAL PART NUMBER:** D25000ANE70

**D37000ANE0** - Lightweight aluminum cable adapter with rotating male jackscrews, pictured with connector installed.

### CODE E6
#### POLARIZED ROTATING JACKSCREWS

![Diagram](image.png)

**TYPICAL PART NUMBER:** D25000ACE60

### SHELL SIZE

<table>
<thead>
<tr>
<th>SHELL SIZE</th>
<th>CONNECTOR / CONTACT ARRANGEMENT COMPATIBILITY</th>
<th>PART NUMBER</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Min.</th>
<th>Max.</th>
<th>J</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Std-D: 9</td>
<td>Combo-D: 5W1, 2W2</td>
<td>D9000A<em>1</em>20</td>
<td>0.908</td>
<td>0.616</td>
<td>2.090</td>
<td>1.790</td>
<td>1.524</td>
<td>0.984</td>
<td>0.362</td>
<td>0.249</td>
<td>0.483</td>
<td>0.090</td>
<td>0.100</td>
</tr>
<tr>
<td>High-D: 15</td>
<td>Combo-D High-D: 8W2</td>
<td></td>
<td>(23.06)</td>
<td>(15.65)</td>
<td>(53.09)</td>
<td>(45.47)</td>
<td>(38.87)</td>
<td>(24.99)</td>
<td>(9.19)</td>
<td>(6.10)</td>
<td>(12.27)</td>
<td>(2.27)</td>
<td>4</td>
</tr>
<tr>
<td>Std-D: 15</td>
<td>Combo-D: 3W3, 3WK3, 7W2, 11W1</td>
<td>D15000A<em>1</em>20</td>
<td>1.236</td>
<td>0.616</td>
<td>2.090</td>
<td>1.790</td>
<td>1.825</td>
<td>1.312</td>
<td>0.690</td>
<td>0.350</td>
<td>0.483</td>
<td>0.100</td>
<td>0.100</td>
</tr>
<tr>
<td>High-D: 26</td>
<td>Combo-D High-D: 19W1</td>
<td></td>
<td>(31.39)</td>
<td>(15.65)</td>
<td>(53.09)</td>
<td>(45.47)</td>
<td>(47.04)</td>
<td>(33.32)</td>
<td>(17.53)</td>
<td>(8.89)</td>
<td>(12.27)</td>
<td>(2.54)</td>
<td>4</td>
</tr>
<tr>
<td>Std-D: 25</td>
<td>Combo-D: 5W5, 9W4, 13W3, 17W2, 21W1</td>
<td>D25000A<em>1</em>20</td>
<td>1.566</td>
<td>0.616</td>
<td>2.090</td>
<td>1.790</td>
<td>2.392</td>
<td>1.852</td>
<td>0.690</td>
<td>0.350</td>
<td>0.483</td>
<td>0.100</td>
<td>0.100</td>
</tr>
<tr>
<td>High-D: 44</td>
<td>Combo-D High-D: 15W4</td>
<td></td>
<td>(42.06)</td>
<td>(15.65)</td>
<td>(53.09)</td>
<td>(45.47)</td>
<td>(60.76)</td>
<td>(47.04)</td>
<td>(17.53)</td>
<td>(8.89)</td>
<td>(12.27)</td>
<td>(2.54)</td>
<td>4</td>
</tr>
<tr>
<td>-- Std-D: 29</td>
<td>Combo-D: n/a</td>
<td>D29000A<em>1</em>20</td>
<td>1.338</td>
<td>0.277</td>
<td>2.090</td>
<td>1.790</td>
<td>2.074</td>
<td>1.534</td>
<td>0.690</td>
<td>0.350</td>
<td>0.534</td>
<td>0.100</td>
<td>0.100</td>
</tr>
<tr>
<td>High-D: n/a</td>
<td>Combo-D High-D: n/a</td>
<td></td>
<td>(33.99)</td>
<td>(18.47)</td>
<td>(53.09)</td>
<td>(45.47)</td>
<td>(52.68)</td>
<td>(38.98)</td>
<td>(17.53)</td>
<td>(8.89)</td>
<td>(15.09)</td>
<td>(2.54)</td>
<td>4</td>
</tr>
<tr>
<td>Std-D: 37</td>
<td>Combo-D: 9W8, 13W6, 17W5, 21W4, 25W3, 27W2</td>
<td>D37000A<em>1</em>20</td>
<td>2.304</td>
<td>0.616</td>
<td>2.340</td>
<td>2.040</td>
<td>2.500</td>
<td>2.124</td>
<td>0.410</td>
<td>0.483</td>
<td>0.130</td>
<td>0.130</td>
<td>6</td>
</tr>
<tr>
<td>High-D: 62</td>
<td>Combo-D High-D: 45W2</td>
<td></td>
<td>(56.52)</td>
<td>(15.65)</td>
<td>(59.44)</td>
<td>(51.82)</td>
<td>(77.22)</td>
<td>(63.50)</td>
<td>(31.55)</td>
<td>(10.41)</td>
<td>(12.27)</td>
<td>(3.30)</td>
<td>6</td>
</tr>
<tr>
<td>Std-D: 50</td>
<td>Combo-D: 24W7, 36W4, 43W2, 47W1</td>
<td>D50000A<em>1</em>20</td>
<td>2.210</td>
<td>0.727</td>
<td>2.340</td>
<td>2.040</td>
<td>2.986</td>
<td>2.068</td>
<td>1.242</td>
<td>0.104</td>
<td>0.594</td>
<td>0.130</td>
<td>0.130</td>
</tr>
<tr>
<td>High-D: 78</td>
<td>Combo-D High-D: n/a</td>
<td></td>
<td>(56.13)</td>
<td>(18.47)</td>
<td>(59.44)</td>
<td>(51.82)</td>
<td>(74.83)</td>
<td>(61.11)</td>
<td>(31.55)</td>
<td>(10.41)</td>
<td>(15.09)</td>
<td>(3.30)</td>
<td>6</td>
</tr>
<tr>
<td>Std-D: n/a</td>
<td>Combo-D: 46W4</td>
<td>D104000A<em>1</em>20</td>
<td>2.304</td>
<td>0.790</td>
<td>2.340</td>
<td>2.040</td>
<td>2.500</td>
<td>2.124</td>
<td>0.410</td>
<td>0.483</td>
<td>0.130</td>
<td>0.130</td>
<td>6</td>
</tr>
<tr>
<td>High-D: 104</td>
<td>Combo-D High-D: n/a</td>
<td></td>
<td>(58.52)</td>
<td>(20.07)</td>
<td>(59.44)</td>
<td>(51.82)</td>
<td>(77.22)</td>
<td>(63.50)</td>
<td>(31.55)</td>
<td>(10.41)</td>
<td>(16.69)</td>
<td>(3.30)</td>
<td>6</td>
</tr>
</tbody>
</table>

### NOTES:
1. For completed part number, insert desired code number from “MATERIAL & FINISH OPTION” chart on page 14.
2. For completed part number, insert the desired code (E, E6 or E7) for required jackscrew option.
3. Smaller cable openings may be achieved by inverting one or both cable clamps.

**For Technical Characteristics, see page 13**
### CABLE ADAPTERS
#### (HOODS/BACKSHELLS)

#### LIGHTWEIGHT ALUMINUM CABLE ADAPTER (HOOD)
WITH QUICK DISCONNECT LOCKING DEVICE
CODE A**1VL AND A**1V3

<table>
<thead>
<tr>
<th>SHELL SIZE</th>
<th>CONNECTOR / CONTACT ARRANGEMENT COMPATIBILITY</th>
<th>PART NUMBER</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Std-D: 9 Combo-D: 5W1, 2WK2 High-D: 15 Combo-D High-D: 8W2</td>
<td>D9000A**1VL0</td>
<td>1.219</td>
<td>0.586</td>
<td>2.000</td>
<td>1.700</td>
<td>1.460</td>
<td>0.592</td>
<td>0.362</td>
<td>0.240</td>
<td>0.453</td>
<td>0.050</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D9000A**1V30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Std-D: 15 Combo-D: 3W3, 3WK3, 7W2, 11W1 High-D: 26 Combo-D High-D: 19W1</td>
<td>D15000A**1VL0</td>
<td>1.547</td>
<td>0.586</td>
<td>2.000</td>
<td>1.700</td>
<td>1.770</td>
<td>0.592</td>
<td>0.690</td>
<td>0.350</td>
<td>0.453</td>
<td>0.100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D15000A**1V30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Std-D: 25 Combo-D: 5W5, 9W4, 13W3, 17W2, 21W1 High-D: 44 Combo-D High-D: 15W4</td>
<td>D25000A**1VL0</td>
<td>2.094</td>
<td>0.586</td>
<td>2.000</td>
<td>1.700</td>
<td>2.360</td>
<td>0.592</td>
<td>0.690</td>
<td>0.350</td>
<td>0.453</td>
<td>0.100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D25000A**1V30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Std-D: 29 Combo-D: n/a High-D: n/a Combo-D High-D: n/a</td>
<td>D29000A**1VL0</td>
<td>1.776</td>
<td>0.689</td>
<td>2.000</td>
<td>1.700</td>
<td>2.930</td>
<td>0.715</td>
<td>0.690</td>
<td>0.350</td>
<td>0.564</td>
<td>0.100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D29000A**1V30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Std-D: 37 Combo-D: 8W8, 13W6, 17W5, 21W4, 25W3, 27W2 High-D: 62 Combo-D High-D: 45W2</td>
<td>D37000A**1VL0</td>
<td>2.736</td>
<td>0.586</td>
<td>2.250</td>
<td>1.950</td>
<td>3.015</td>
<td>0.592</td>
<td>1.242</td>
<td>0.410</td>
<td>0.453</td>
<td>0.130</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D37000A**1V30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Std-D: 50 Combo-D: 24W7, 36W4, 43W2, 47W1 High-D: 78 Combo-D High-D: n/a</td>
<td>D50000A**1VL0</td>
<td>2.642</td>
<td>0.689</td>
<td>2.250</td>
<td>1.950</td>
<td>2.900</td>
<td>0.715</td>
<td>1.242</td>
<td>0.410</td>
<td>0.564</td>
<td>0.130</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D50000A**1V30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
1. For completed part number, insert desired code number from “MATERIAL & FINISH OPTION” chart on page 14.
2. Smaller cable openings may be achieved by inverting one or both cable clamps.

Also available with Back panel mounted locking tabs, see page 28 for details.

**TYPICAL PART NUMBER:** D25000ANVL0

**TYPICAL PART NUMBER:** D25000ACV30

---

**NEW!**
LIGHTWEIGHT ALUMINUM CABLE ADAPTER (HOOD)
WITH QUICK DISCONNECT LOCKING DEVICE
CODE A**1VL AND A**1V3

**CODE VL**
LOCK ACTUATION LEVER

**CODE V3**
LOCKING TABS

**TYPICAL PART NUMBER:** D25000ANVL0

**TYPICAL PART NUMBER:** D25000ACV30

**D25000ANVL0** - Lightweight aluminum cable adapter with vibration lock lever, pictured with connector installed.

- **Lightweight aluminum cable adapter with vibration lock lever, pictured with connector installed.**

**NOTES:**
- **1** For completed part number, insert desired code number from “MATERIAL & FINISH OPTION” chart on page 14.
- **2** Smaller cable openings may be achieved by inverting one or both cable clamps.

**LIGHTWEIGHT ALUMINUM CABLE ADAPTER (HOOD) WITH QUICK DISCONNECT LOCKING DEVICE**

**CODE VL**
LOCK ACTUATION LEVER

**CODE V3**
LOCKING TABS

**TYPICAL PART NUMBER:** D25000ANVL0

**TYPICAL PART NUMBER:** D25000ACV30

**D25000ANVL0** - Lightweight aluminum cable adapter with vibration lock lever, pictured with connector installed.

**NOTES:**
- **1** For completed part number, insert desired code number from “MATERIAL & FINISH OPTION” chart on page 14.
- **2** Smaller cable openings may be achieved by inverting one or both cable clamps.

**TYPICAL PART NUMBER:** D25000ANVL0

**TYPICAL PART NUMBER:** D25000ACV30

**D25000ANVL0** - Lightweight aluminum cable adapter with vibration lock lever, pictured with connector installed.

**NOTES:**
- **1** For completed part number, insert desired code number from “MATERIAL & FINISH OPTION” chart on page 14.
- **2** Smaller cable openings may be achieved by inverting one or both cable clamps.

**TYPICAL PART NUMBER:** D25000ANVL0

**TYPICAL PART NUMBER:** D25000ACV30

**D25000ANVL0** - Lightweight aluminum cable adapter with vibration lock lever, pictured with connector installed.

**NOTES:**
- **1** For completed part number, insert desired code number from “MATERIAL & FINISH OPTION” chart on page 14.
- **2** Smaller cable openings may be achieved by inverting one or both cable clamps.

**TYPICAL PART NUMBER:** D25000ANVL0

**TYPICAL PART NUMBER:** D25000ACV30

**D25000ANVL0** - Lightweight aluminum cable adapter with vibration lock lever, pictured with connector installed.

**NOTES:**
- **1** For completed part number, insert desired code number from “MATERIAL & FINISH OPTION” chart on page 14.
- **2** Smaller cable openings may be achieved by inverting one or both cable clamps.

**TYPICAL PART NUMBER:** D25000ANVL0

**TYPICAL PART NUMBER:** D25000ACV30

**D25000ANVL0** - Lightweight aluminum cable adapter with vibration lock lever, pictured with connector installed.

**NOTES:**
- **1** For completed part number, insert desired code number from “MATERIAL & FINISH OPTION” chart on page 14.
- **2** Smaller cable openings may be achieved by inverting one or both cable clamps.

**TYPICAL PART NUMBER:** D25000ANVL0

**TYPICAL PART NUMBER:** D25000ACV30

**D25000ANVL0** - Lightweight aluminum cable adapter with vibration lock lever, pictured with connector installed.

**NOTES:**
- **1** For completed part number, insert desired code number from “MATERIAL & FINISH OPTION” chart on page 14.
- **2** Smaller cable openings may be achieved by inverting one or both cable clamps.
EMI/RFI METAL CABLE ADAPTER (HOOD) WITH ROTATING JACKSCREWS

**CODE GE**

**EXTENDED HEIGHT GE**

FOR EXTENDED GE CABLE ADAPTER, ADD THE SUFFIX AS INDICATED IN THE TABLE BELOW.

**TYPICAL PART NUMBER: D25000GE0**

<table>
<thead>
<tr>
<th>PART NUMBER (Shell Size)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>CABLE EXIT OPTION <strong>5</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>D9000GE0 (Shell Size 1)</td>
<td>1.398</td>
<td>1.220</td>
<td>0.984</td>
<td>0.583</td>
<td>1 Top (Not pictured)</td>
</tr>
<tr>
<td>D9000GE0-1023.50 (Shell Size 1)</td>
<td>1.398</td>
<td>1.220</td>
<td>0.984</td>
<td>0.583</td>
<td>1 Side (Not pictured)</td>
</tr>
<tr>
<td>D15000GE0 (Shell Size 2)</td>
<td>1.575</td>
<td>1.547</td>
<td>1.311</td>
<td>0.583</td>
<td>1 Top, 1 Side</td>
</tr>
<tr>
<td>D15000GE0-1579.0 (Shell Size 2)</td>
<td>1.575</td>
<td>1.547</td>
<td>1.311</td>
<td>0.583</td>
<td>1 Side (Not pictured)</td>
</tr>
<tr>
<td>D25000GE0 (Shell Size 3)</td>
<td>1.575</td>
<td>2.094</td>
<td>1.850</td>
<td>0.583</td>
<td>1 Top, 2 Side</td>
</tr>
<tr>
<td>D37000GE0 (Shell Size 4)</td>
<td>1.575</td>
<td>2.736</td>
<td>2.500</td>
<td>0.583</td>
<td>1 Top, 2 Side</td>
</tr>
<tr>
<td>D50000GE0 (Shell Size 5)</td>
<td>1.654</td>
<td>2.638</td>
<td>2.408</td>
<td>0.701</td>
<td>1 Top, 2 Side</td>
</tr>
<tr>
<td>D104000GE0 (Shell Size 6)</td>
<td>1.560</td>
<td>2.835</td>
<td>2.500</td>
<td>0.764</td>
<td>1 Top, 2 Side</td>
</tr>
</tbody>
</table>

**TYPICAL PART NUMBER: D25000GE0-1023.5**

<table>
<thead>
<tr>
<th>PART NUMBER (Shell Size)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>CABLE EXIT OPTION <strong>5</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>D9000GE0-1023.5 (Shell Size 1)</td>
<td>1.988</td>
<td>1.220</td>
<td>0.984</td>
<td>0.583</td>
<td>1 Side (Not pictured)</td>
</tr>
<tr>
<td>D9000GE0-1023.49 (Shell Size 1)</td>
<td>1.988</td>
<td>1.220</td>
<td>0.984</td>
<td>0.583</td>
<td>1 Side (Not pictured)</td>
</tr>
<tr>
<td>D15000GE0-1023.5 (Shell Size 2)</td>
<td>2.165</td>
<td>1.547</td>
<td>1.311</td>
<td>0.583</td>
<td>1 Side (Not pictured)</td>
</tr>
<tr>
<td>D15000GE0-1023.49 (Shell Size 2)</td>
<td>2.165</td>
<td>1.547</td>
<td>1.311</td>
<td>0.583</td>
<td>1 Side (Not pictured)</td>
</tr>
<tr>
<td>D25000GE0-1023.5 (Shell Size 3)</td>
<td>2.165</td>
<td>2.094</td>
<td>1.850</td>
<td>0.583</td>
<td>1 Side (Not pictured)</td>
</tr>
<tr>
<td>D25000GE0-1023.49 (Shell Size 3)</td>
<td>2.165</td>
<td>2.094</td>
<td>1.850</td>
<td>0.583</td>
<td>1 Side (Not pictured)</td>
</tr>
<tr>
<td>D37000GE0-1023.5 (Shell Size 4)</td>
<td>2.165</td>
<td>2.736</td>
<td>2.500</td>
<td>0.583</td>
<td>1 Top, 2 Side</td>
</tr>
<tr>
<td>D37000GE0-1023.49 (Shell Size 4)</td>
<td>2.165</td>
<td>2.736</td>
<td>2.500</td>
<td>0.583</td>
<td>1 Top, 2 Side</td>
</tr>
<tr>
<td>D50000GE0-1023.5 (Shell Size 5)</td>
<td>2.244</td>
<td>2.638</td>
<td>2.406</td>
<td>0.701</td>
<td>1 Top, 2 Side</td>
</tr>
<tr>
<td>D50000GE0-1023.49 (Shell Size 5)</td>
<td>2.244</td>
<td>2.638</td>
<td>2.406</td>
<td>0.701</td>
<td>1 Top, 2 Side</td>
</tr>
</tbody>
</table>

**FEATURES:**

- Gripping shoulders enable trouble-free extraction of the connector assembly even with tightly packed aligned cable adapters.
- Rotating jackscrews offer the most secure mechanical locking of the connector system.
- Standard height cable adapters for use with connector shell sizes 1 and 2 are available with a top or side cable exit option. Contact Technical Sales for details.
- Cable adapters for use with connector shell sizes 3 - 5 are designed with three (3) cable entries and can permit the looping through of cables. Cable entries not used are sealed with supplied metal plugs to maintain EMI/RFI shielding qualities.
- Two (2) height options are available, one being a low profile option (as shown on the left side of this page). An increased height option (as shown on the right side of this page) is offered for use with power conductors and coaxial cable, such as might be used with the Positronic CBD/CBM series connectors.
- Grounding to the cable adapter may be accomplished by fastening wires inside cable adapter with an M3 threaded Phillips head screw.

**NOTES:**

- "To prevent stripping of the cable adapter assembly screws, we recommend using Pozidriv screwdriver bits available from stock using part number 9535-2-2-0, contact Technical Sales. Standard height GE cable adapter use the Pozidriv style jackscrews. Internal hex jackscrews are available for the standard height, but require an MOS.
- "The extended height cable adapters use an internal hex jackscrew.
- "These cable adapters are supplied with one (1) cable clamp set and one (1) opening plug.
- "These cable adapters are supplied with one (1) cable clamp set and two (2) opening plugs.
- "See page 20 for optional Crimp Ferrule System.

DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.
EMI/RFI METAL CABLE ADAPTER (HOOD)  
WITH QUICK DISCONNECT LOCKING DEVICE

**CODE G AND GVL**

GVL CABLE ADAPTER SHOWN FOR REFERENCE, FOR G CABLE ADAPTER USE SAME DRAWING AS

GVL CABLE ADAPTER EXCEPT WITHOUT THE LOCK ACTUATION LEVER

**EXTENDED HEIGHT G² / GVL²**

FOR EXTENDED CABLE ADAPTER, ADD THE SUFFIX AS INDICATED IN THE TABLE BELOW.

**FEATURES:**

- Rapid locking system stays in a constantly-locked position, utilizing a blade spring. System is unlocked by simply pressing the slide latch. Locking is automatic upon coupling to the mating connector.
- Gripping shoulders enable trouble-free extraction of the connector assembly even with tightly packed aligned cable adapters.
- Cable adapters for use with connector shell sizes 2 - 5 are designed with three (3) cable entries and can permit the looping through of cables. Cable entries not used are sealed with the supplied metal plugs to maintain EMI/RFI shielding. Cable adapters for use with connector shell size 1 are designed with only two (2) side openings.
- Two (2) height options are available, one being a low profile option (as shown on the right side of this page) is offered for use with power conductors and coaxial cable, such as might be used with the Positronic CBD/CBM series connectors.
- Grounding to the cable adapter may be accomplished by fastening wires inside cable adapter with an M3 threaded Phillips head screw.

**NOTES:**

1. To prevent stripping of the cable adapter assembly screws, we recommend using Pozidriv screwdriver bits available from stock using part number 9535-2-2-0, contact Technical Sales. For the mounting screws, we recommend using a standard Phillips head screwdriver bit.
2. The extended height cable adapters use an internal hex jack screw.
3. These cable adapters are supplied with one (1) cable clamp set and one (1) opening plug.
4. These cable adapters are supplied with one (1) cable clamp set and two (2) opening plugs.
5. See page 20 for optional Crimp Ferrule System.

**TYPICAL PART NUMBER:** D25000GVL0

**TYPICAL PART NUMBER:** D25000GVL0-1023.0

**Shell Sizes 1 - 4:**

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>PART NUMBER</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>CABLE CLAMP OPENINGS</th>
</tr>
</thead>
</table>
| 1          | D9000G00        | 1.260| 1.460| 0.615| 0.600| 2 Side²*
|            | D9000GVL0      |      |      |      |      |                      |
| 2          | D15000G00       | 1.547| 1.770| 0.815| 0.600| 1 Top, 2 Side⁴       |
|            | D15000GVL0     |      |      |      |      |                      |
| 3          | D25000G00       | 2.094| 2.360| 0.815| 0.600| 1 Top, 2 Side⁴       |
|            | D25000GVL0     |      |      |      |      |                      |
| 4          | D37000G00       | 2.736| 3.080| 0.815| 0.600| 1 Top, 2 Side⁴       |
|            | D37000GVL0     |      |      |      |      |                      |
| 5          | D50000G00       | 2.638| 2.900| 0.835| 0.710| 1 Top, 2 Side⁴       |
|            | D50000GVL0     |      |      |      |      |                      |

**Shell Size 5:**

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>PART NUMBER</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>CABLE CLAMP OPENINGS</th>
</tr>
</thead>
</table>
| 1          | D9000G00-1023.2 | 1.260| 1.460| 0.615| 0.600| 2 Side³*
|            | D9000GVL0-1023.0|      |      |      |      |                      |
| 2          | D15000G00-1023.2| 1.547| 1.770| 0.815| 0.600| 1 Top, 2 Side⁴       |
|            | D15000GVL0-1023.0|      |      |      |      |                      |
| 3          | D25000G00-1023.2| 2.094| 2.360| 0.815| 0.600| 1 Top, 2 Side⁴       |
|            | D25000GVL0-1023.0|      |      |      |      |                      |
| 4          | D37000G00-1023.2| 2.736| 3.080| 0.815| 0.600| 1 Top, 2 Side⁴       |
|            | D37000GVL0-1023.0|      |      |      |      |                      |
| 5          | D50000G00-1023.2| 2.638| 2.900| 0.835| 0.710| 1 Top, 2 Side⁴       |
|            | D50000GVL0-1023.0|      |      |      |      |                      |

**Material:**

Zinc, die cast.

**Dimensions are in inches [millimeters].**

**For information regarding QUICK DISCONNECT LOCKING DEVICE, see page 28.**
EMI/RFI METAL CABLE ADAPTER (HOOD)\textsuperscript{1}
WITH M3 THREADS

TO OBTAIN THE FIXED FEMALE JACKSCREWS (SHOWN BELOW), ADD THE SUFFIX `-1193.6' TO THE END OF THE PART NUMBER.
Contact Technical Sales for additional ordering information.

<table>
<thead>
<tr>
<th>PART NUMBER (Shell Size)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>CABLE EXIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>D90000G00-1023.6</td>
<td>1.949</td>
<td>1.287</td>
<td>0.984</td>
<td>0.583</td>
<td>1 Top</td>
</tr>
<tr>
<td>(Shell Size 1)</td>
<td>(49.50)</td>
<td>(25.00)</td>
<td>(25.00)</td>
<td>(14.81)</td>
<td></td>
</tr>
<tr>
<td>D15000G00-1023.6</td>
<td>2.128</td>
<td>1.561</td>
<td>1.311</td>
<td>0.583</td>
<td>1 Side</td>
</tr>
<tr>
<td>(Shell Size 2)</td>
<td>(54.00)</td>
<td>(39.40)</td>
<td>(33.30)</td>
<td>(14.81)</td>
<td></td>
</tr>
<tr>
<td>D25000G00-1023.6</td>
<td>2.128</td>
<td>1.215</td>
<td>1.850</td>
<td>0.583</td>
<td>1 Top, 2 Side</td>
</tr>
<tr>
<td>(Shell Size 3)</td>
<td>(54.00)</td>
<td>(55.00)</td>
<td>(47.00)</td>
<td>(14.81)</td>
<td></td>
</tr>
<tr>
<td>D37000G00-1023.6</td>
<td>2.204</td>
<td>2.803</td>
<td>2.500</td>
<td>0.583</td>
<td>1 Top, 2 Side</td>
</tr>
<tr>
<td>(Shell Size 4)</td>
<td>(56.00)</td>
<td>(71.20)</td>
<td>(83.50)</td>
<td>(14.81)</td>
<td></td>
</tr>
<tr>
<td>D50000G00-1023.6</td>
<td>2.204</td>
<td>2.717</td>
<td>2.406</td>
<td>0.701</td>
<td>1 Top, 2 Side</td>
</tr>
<tr>
<td>(Shell Size 5)</td>
<td>(56.00)</td>
<td>(69.01)</td>
<td>(81.10)</td>
<td>(17.80)</td>
<td></td>
</tr>
<tr>
<td>D104000G00-1023.6</td>
<td>1.929</td>
<td>2.835</td>
<td>2.500</td>
<td>0.764</td>
<td>1 Top, 2 Side</td>
</tr>
<tr>
<td>(Shell Size 6)</td>
<td>(48.00)</td>
<td>(72.00)</td>
<td>(83.50)</td>
<td>(19.40)</td>
<td></td>
</tr>
</tbody>
</table>

\textbf{NOTES:}
\textsuperscript{1} To prevent stripping of the cable adapter assembly screws, we recommend using Pozidriv screwdriver bits available from stock using part number 9535-2-2-0, contact Technical Sales.
\textsuperscript{2} These cable adapters are supplied with one (1) cable clamp set and two (2) opening plugs.
\textsuperscript{3} See page 20 for optional Crimp Ferrule System.

\textbf{FEATURES:}
\begin{itemize}
  \item Developed for applications where the highest degree of EMI/RFI shielding protection is required.
  \item The connector is recessed into the cable adapter so that additional EMI/RFI protection is gained.
  \item When this connector system is fully coupled, the front edge of the cable adapter presses against the panel that houses the mating connector, offering greater shielding.
  \item Cable adapters for use with connector shell sizes 3 - 5 are designed with three (3) cable entries and can permit the looping through of cables. Cable entries not used are sealed with supplied metal plugs to maintain EMI/RFI shielding qualities.
  \item Jackscrew locking system is supplied as a standard for secure mechanical coupling.
  \item Grounding to the cable adapter may be accomplished by fastening wires inside cable adapter with an M3 threaded Phillips head screw.
\end{itemize}

\textbf{EMI/RFI ADAPTER}
\textbf{CODE GA\textsuperscript{1}}

\begin{itemize}
  \item The “GA” series adapter can be used as a gender-changer which provides EMI/RFI protection.
  \item The “GA” series adapter allows for internal placement of a printed circuit board between the connectors.
  \item The “GA” series adapter can be used to adapt connectors of one interface standard to another.
  \item The “GA” series adapter can be used in applications where tapping into the electrical line path between connectors is necessary. A cable exit is provided for this application.
  \item If no connector is inserted into the rear side of the cable adapter, the opening can be closed with a metal plate which can be adapted for use with LED’s, mini-switches, and coaxial connectors.
  \item Jackscrew locking system is supplied as a standard for secure mechanical coupling.
  \item Grounding to the cable adapter may be accomplished by fastening wires inside cable adapter with an M3 threaded Phillips head screw.
\end{itemize}

\textbf{FEATURES:}
\begin{itemize}
  \item The “GA” series adapter can be used as a gender-changer which provides EMI/RFI protection.
  \item The “GA” series adapter allows for internal placement of a printed circuit board between the connectors.
  \item The “GA” series adapter can be used to adapt connectors of one interface standard to another.
  \item The “GA” series adapter can be used in applications where tapping into the electrical line path between connectors is necessary. A cable exit is provided for this application.
  \item If no connector is inserted into the rear side of the cable adapter, the opening can be closed with a metal plate which can be adapted for use with LED’s, mini-switches, and coaxial connectors.
  \item Jackscrew locking system is supplied as a standard for secure mechanical coupling.
  \item Grounding to the cable adapter may be accomplished by fastening wires inside cable adapter with an M3 threaded Phillips head screw.
\end{itemize}

\textbf{NOTES:}
\textsuperscript{1} To prevent stripping of the cable adapter assembly screws, we recommend using Pozidriv screwdriver bits available from stock using part number 9535-2-2-0, contact Technical Sales.
\textsuperscript{2} See page 20 for optional Crimp Ferrule System.
\textsuperscript{3} Must be purchased separately.
The crimp ferrule system can be used with all Positronic code “G” cable adapters and is recommended when maximizing EMI/RFI protection is desired.

The crimp ferrule system optimizes the transition of the cable shield into the cable adapter in three ways. First: It provides a low impedance connection of the cable shield to the cable adapter which remains constant over time. Second: The system provides an EMI/RFI tight cable exit point. Third: The system provides for high mechanical retention of the cable in the cable adapter.

Application of the crimp ferrule system is quite simple. Once the cable insulation and shield are cut to the correct dimensions (#1), the crimp ferrule is placed over the cable and the crimp flange is inserted between the shield and the conductors (#2). The crimp ferrule is now slid over the cable insulation into position over the crimp flange and the crimp is made using Positronic-supplied hand press and die sets (#3). This assembly is then terminated to the connector and placed into the cable adapter (#4). Finally, the cover is placed on the cable adapter and secured using four (4) screws (#5).

To order the Positronic-supplied hand press, request part number 9520-0-0-0 or for hand crimp tool, request part number 9521-3-0-0. To order Positronic-supplied die sets, contact Technical Sales for ordering information, since die sets are customized based on the specific crimp flanges, crimp ferrules and cables used.

CRIMP FERRULE / FLANGE
ORDERING INFORMATION

<table>
<thead>
<tr>
<th>STEP</th>
<th>TYPICAL PART NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4592</td>
</tr>
<tr>
<td>2</td>
<td>***</td>
</tr>
<tr>
<td>3</td>
<td>***</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
</tr>
</tbody>
</table>

CRIMP FERRULE / CRIMP FLANGE

NOTE:
*1 Contact Technical Sales for part number completion which is determined by Customer-required cable diameters and type.

A crimp ferrule (left) and a crimp flange (right) shown above.

Do you need 2-D drawings or 3-D models?

Once you have made a connector selection, contact Technical Sales if you would like a 2-D drawing or 3-D model. If we do not have your specific part number on file, we can create one for you. Or, please visit www.connectpositronic.com and use the search function.
**CABLE ADAPTERS**

**HOODS/BACKSHELLS**

---

**METAL CABLE ADAPTER (HOOD)**

**CODE H**

**Material:** Steel, zinc plate with chromate seal.

**NOTE:** Brass with gold plate finish is available for space applications. Contact Technical Sales for ordering information.

<table>
<thead>
<tr>
<th>PART NUMBER (Shell Size)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D MAX.</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H MAX.</th>
</tr>
</thead>
<tbody>
<tr>
<td>D15000H00 (Shell Size 2)</td>
<td>1.531</td>
<td>0.492</td>
<td>1.312</td>
<td>0.578</td>
<td>0.713</td>
<td>0.312</td>
<td>0.750</td>
<td>1.219</td>
</tr>
<tr>
<td></td>
<td>(36.88)</td>
<td>(12.50)</td>
<td>(33.32)</td>
<td>(14.68)</td>
<td>(18.11)</td>
<td>(7.92)</td>
<td>(19.09)</td>
<td>(30.96)</td>
</tr>
<tr>
<td>D25000H00 (Shell Size 3)</td>
<td>2.078</td>
<td>0.492</td>
<td>1.852</td>
<td>0.578</td>
<td>1.000</td>
<td>0.312</td>
<td>1.000</td>
<td>1.532</td>
</tr>
<tr>
<td></td>
<td>(52.78)</td>
<td>(12.50)</td>
<td>(47.04)</td>
<td>(14.68)</td>
<td>(25.40)</td>
<td>(7.92)</td>
<td>(25.40)</td>
<td>(38.91)</td>
</tr>
<tr>
<td>D37000H00 (Shell Size 4)</td>
<td>2.718</td>
<td>0.492</td>
<td>2.500</td>
<td>0.578</td>
<td>1.375</td>
<td>0.312</td>
<td>1.000</td>
<td>1.532</td>
</tr>
<tr>
<td></td>
<td>(69.03)</td>
<td>(12.50)</td>
<td>(63.50)</td>
<td>(14.68)</td>
<td>(34.93)</td>
<td>(7.92)</td>
<td>(25.40)</td>
<td>(38.91)</td>
</tr>
<tr>
<td>D50000H00 (Shell Size 5)</td>
<td>2.625</td>
<td>0.601</td>
<td>2.406</td>
<td>0.687</td>
<td>1.406</td>
<td>0.406</td>
<td>1.125</td>
<td>1.657</td>
</tr>
<tr>
<td></td>
<td>(66.68)</td>
<td>(15.27)</td>
<td>(61.11)</td>
<td>(17.45)</td>
<td>(35.71)</td>
<td>(10.31)</td>
<td>(28.58)</td>
<td>(42.09)</td>
</tr>
</tbody>
</table>

---

**PLASTIC CABLE ADAPTER (HOOD)**

**CODE J AND L**

**Typically used with Quick Disconnect Locking Device, see page 28**

**Material:**
- **Cable Adapter:** Glass-filled polyester, UL 94V-0.
- **Cable Clamps:** Steel, nickel plate.

---

**D25000LVL0**

---

**DIMENSIONS ARE IN INCHES [MILLIMETERS].**

**ALL DIMENSIONS ARE SUBJECT TO CHANGE.**
Low profile cable adapter (hood)

Code QH

Note: When using QH cable adapter with connector series other than QB, use MOS -1886.0 to allow for installation of required mounting spacers. Example part number: RD1SS10QH0-1886.0

Material:
- **Cable Adapter**: Glass filled polyester, UL 94V-0.
- **Jackscrews**: Steel with zinc plate and chromate seal or tin plate; stainless steel, passivated.
- **Internal cable clamp**: Steel, nickel plate.

<table>
<thead>
<tr>
<th>PART NUMBER (Shell Size)</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>D15000QH0 (Shell Size 2)</td>
<td>1.715 [43.56]</td>
</tr>
<tr>
<td>D25000QH0 (Shell Size 3)</td>
<td>2.255 [57.28]</td>
</tr>
</tbody>
</table>

Accepts 3/32 inch hex driver or allen wrench

Contact technical sales for more information

Positronic's D-subminiature Accessories are available in RoHS compliant materials. These materials will be supplied when the connector part number designates the RoHS modifier “/AA.”
PLASTIC CABLE ADAPTER (HOOD)
CODE W

SD2M10WE20 (left) and
RD2S10W00 (right) shown above.

<table>
<thead>
<tr>
<th>PART NUMBER (Shell Size)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>MINIMUM</th>
<th>MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>D9000W00 (Shell Size 1)</td>
<td>0.630</td>
<td>0.770</td>
<td>1.800</td>
<td>R 0.093</td>
<td>R 0.093</td>
</tr>
<tr>
<td>D15000W00 (Shell Size 2)</td>
<td>0.630</td>
<td>1.100</td>
<td>1.800</td>
<td>R 0.125</td>
<td>R 0.456</td>
</tr>
<tr>
<td>D25000W00 (Shell Size 3)</td>
<td>0.630</td>
<td>1.622</td>
<td>1.800</td>
<td>R 0.125</td>
<td>R 0.250</td>
</tr>
</tbody>
</table>

Material: Polypropylene UL 94V-0.

PLASTIC CABLE ADAPTER (HOOD)
WITH ROTATING JACKSCREWS
CODE WE, WE2, AND WE6

WE

Material: 
Cable adapter: Polypropylene UL 94V-0.
Jackscrew: Steel with zinc plate and chromate seal or tin plate; stainless steel, passivated.

WE2

Material: 
Cable adapter: Polypropylene UL 94V-0.
Jackscrew: Steel with zinc plate and chromate seal or tin plate; stainless steel, passivated.

WE6

Material: 
Cable adapter: Polypropylene UL 94V-0.
Jackscrew: Steel with zinc plate and chromate seal or tin plate; stainless steel, passivated.
Spacer & Knob: Aluminum, yellow chromate conversion.

Dimensions are in inches [millimeters]. All dimensions are subject to change.
SIZE 50 PLASTIC CABLE ADAPTER (HOOD)
WITH ROTATING JACKSCREWS
CODE Y AND Y6

CONTACT TECHNICAL SALES FOR
AVAILABILITY OF OTHER SIZES.

SIZE 104 COMPOSITE CABLE ADAPTER (HOOD)
WITH ROTATING JACKSCREWS
CODE Y AND Y6

DIMENSIONS ARE IN INCHES [MILLIMETERS].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.
EMI/RFI COMPOSITE CABLE ADAPTERS (HOODS) WITH JACKSCREWS

EXTENDED HEIGHT, BOTH TOP AND SIDE CABLE OPENINGS FOR LARGE DIAMETER SHIELDED AND POWER CONTACTS

CODE Z, Z4, Z6, AND Z7

Material: Composite, conductive volume resistivity [1.0 ohm-cm max.], UL 94V-0.

Attenuation: 40+ decibels.

Alternate Material: Glass filled nylon, UL 94V-0.

<table>
<thead>
<tr>
<th>SHELL SIZE</th>
<th>PART NUMBER</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>CABLE OPENING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>MIN.</td>
<td>MAX.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>D9000Z00</td>
<td>1.387</td>
<td>1.935</td>
<td>0.735</td>
<td>[18.67]</td>
</tr>
<tr>
<td></td>
<td>D9000Z400</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D9000Z600</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D9000Z700</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>D15000Z00</td>
<td>1.715</td>
<td>1.935</td>
<td>0.735</td>
<td>[18.67]</td>
</tr>
<tr>
<td></td>
<td>D15000Z400</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D15000Z600</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D15000Z700</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>D25000Z00</td>
<td>2.254</td>
<td>2.200</td>
<td>0.735</td>
<td>[18.67]</td>
</tr>
<tr>
<td></td>
<td>D25000Z400</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D25000Z600</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D25000Z700</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>D37000Z00</td>
<td>2.903</td>
<td>2.200</td>
<td>0.735</td>
<td>[18.67]</td>
</tr>
<tr>
<td></td>
<td>D37000Z400</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D37000Z600</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D37000Z700</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>D50000Z00</td>
<td>3.803</td>
<td>2.700</td>
<td>0.900</td>
<td>[22.86]</td>
</tr>
<tr>
<td></td>
<td>D50000Z400</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D50000Z600</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D50000Z700</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dimensions: All dimensions are subject to change.

TYPICAL INSERTS

Various inserts are provided to accommodate different cable sizes.

INSERT TREE ASSEMBLY
**SAVE TIME AND MONEY!**

Let Positronic support you by cablizing your D-subminiature connector selection.

**Cable Assembly Design Support**

**We work closely with customers to:**

1. Design assemblies in accordance with customer specifications.
2. Prepare wire harness connector configuration and performance specifications.
3. Design each system in accordance with applicable customer, domestic, and international standards.
4. Define and conduct performance and verification testing.

**FOR MORE DETAILS CONTACT TECHNICAL SALES OR VISIT OUR WEB SITE AT:**

CONNECTPOSITRONIC.COM/CABLE-ASSEMBLIES
**LOCKING AND CODING SYSTEMS**

**JACKSCREW SYSTEMS**

**CODE T, T2, T3, T4, T5, E, E2, AND E3**

**T³ / T2³ / T3³ / T4³ / T5³**

<table>
<thead>
<tr>
<th>CODE</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>T³</td>
<td>0.437</td>
<td>0.250</td>
</tr>
<tr>
<td></td>
<td>[11.10]</td>
<td>[6.35]</td>
</tr>
<tr>
<td>T2³</td>
<td>0.500</td>
<td>0.198</td>
</tr>
<tr>
<td></td>
<td>[12.70]</td>
<td>[5.03]</td>
</tr>
<tr>
<td>T3</td>
<td>0.812</td>
<td>0.198</td>
</tr>
<tr>
<td></td>
<td>[20.60]</td>
<td>[5.03]</td>
</tr>
<tr>
<td>T4</td>
<td>0.445</td>
<td>0.220</td>
</tr>
<tr>
<td></td>
<td>[11.30]</td>
<td>[5.59]</td>
</tr>
<tr>
<td>T5</td>
<td>0.448</td>
<td>0.198</td>
</tr>
<tr>
<td></td>
<td>[11.38]</td>
<td>[5.03]</td>
</tr>
</tbody>
</table>

**FIXED FEMALE JACKSCREWS**

Material: T, T4, and T5 = Copper alloy or steel with zinc plate and chromate seal or tin plate; stainless steel, passivated.

T2 and T3 = Steel with zinc plate and chromate seal or tin plate; stainless steel, passivated.

**ROTATING MALE JACKSCREWS**

Material: Steel with zinc plate and chromate seal or tin plate; stainless steel, passivated.

E = slotted for screw driver

E3 = rotating male with internal hex for 3/32 hex drives

**NOTES:**

1. T, T2, T3, T4 or T5 jackscrew supplied on connectors in combination with other accessories may differ dimensionally, contact Technical Sales for more information.

2. T, T2, T3, T4, T5, E, E2 or E3 - Passivated stainless steel jackscrews available. Contact Technical Sales for ordering information.

3. Internal thread length of T & T2 jackscrews is 0.120 [3.05] nominal.

**CODING DEVICE (KEYING) JACKSCREW SYSTEMS**

**CODE T6 AND E6**

**Material:**

Male jackscrews: Steel with zinc plate and chromate seal or tin plate; stainless steel, passivated.

Female jackscrews: Copper alloy with zinc plate and chromate seal or tin plate; stainless steel, passivated.

**NOTES:**

1. T6 or E6 passivated stainless steel jackscrews available. Contact Technical Sales for ordering information.

2. For customer installations of knobs onto jackscrews, recommend set screw torque value of 16 in/oz. Recommend application of thread lock to set screw.

**Material:**

Steel with zinc plate and chromate seal or tin plate; stainless steel, passivated.

**DIMENSIONS ARE IN INCHES [MILLIMETERS].**

**ALL DIMENSIONS ARE SUBJECT TO CHANGE.**

Standard configuration shown. Various configurations can be supplied to allow for up to **EIGHT CODING DEVICE OPTIONS**, see page 33.
**LOCKING AND CODING SYSTEMS**

**FRONT MOUNTED LOCKING TABS**

**QUICK DISCONNECT LOCKING DEVICE**

**CODE V3**

Material: Steel, nickel plate.

---

**LOCK ACTUATION LEVER**

**QUICK DISCONNECT LOCKING DEVICE**

**CODE VL**

Material: Steel, nickel plate.

---

**BACK MOUNTED LOCKING TABS**

**QUICK DISCONNECT LOCKING DEVICE**

**CODE V5**

Material: Steel, nickel plate.
Positronic is known around the world for offering our customers flexibility when choosing connectors.

In addition to allowing customers to create part numbers for particular applications, Positronic offers a wide variety of features and accessories within our products.

Positronic is also eager to modify existing products to meet unique customer requirements. If you do not find what you need with this catalog, please contact us for assistance.

FLARED CONNECTOR HOUSING (SHELLS)

Flared connector housings provide a more generous misalignment characteristics than standard D-subminiature connector housings.

SIDE VIEWS OF FLARED CONNECTOR HOUSING (SHELL) FOR DD62M4R7000-1503.33 (shown left) and CBD25W3M85R7000-1503.33 (shown right)

CONTACT TECHNICAL SALES FOR PART NUMBERS AND DETAIL INFORMATION

DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.
LOW PROFILE MOUNTING BRACKET

Allows reduced distance from the top of the printed circuit board to the top of the connector compared to standard mounting brackets.

Mounting bracket material: Brass with zinc plate and chromate seal or tin plate.

CAPTIVE ALIGNMENT BARS

FOR ROBOTIC “PICK AND PLACE” APPLICATIONS

FOR MD-SERIES CONNECTORS, ADD THE SUFFIX “1298.3” TO THE END OF THE PART NUMBER.
FOR ODD-SERIES CONNECTORS, ADD THE SUFFIX “1298.4” TO THE END OF THE PART NUMBER.

Material: Polyphenylenesulfide.

CONTACT TECHNICAL SALES FOR MINIMUM ORDER QUANTITIES AND PRODUCTION LEAD TIMES

TYPICAL PART NUMBER:

MD25M5R7000-1298.3

ODD78F5R7000-1298.4

TYPICAL PART NUMBER:

MD50F5R7000-1298.3

DIMENSIONS ARE IN INCHES [MILLIMETERS].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.
## PROTECTIVE COVER
**SUPPLIED AS STANDARD WITH ALL WD AND WDD SERIES CONNECTORS**

**COVER WITHOUT EARS**
FOR CONNECTORS WITHOUT FIXED JACKSCREWS

- Material: Conductive polyethylene
- Color: Black

**COVER WITH EARS**
FOR CONNECTORS WITH FIXED JACKSCREWS

- Material: Conductive polyester
- Color: Black

### SHELL SIZE GENDER REPLACEMENT PART NUMBER WITHOUT EARS ATTACHMENT REPLACEMENT PART NUMBER WITHOUT EARS REPLACEMENT PART NUMBER WITH EARS

<table>
<thead>
<tr>
<th>SHELL SIZE</th>
<th>GENDER</th>
<th>CONDUCTIVE REPLACEMENT PART NUMBER WITHOUT EARS</th>
<th>STATIC DISSIPATIVE REPLACEMENT PART NUMBER WITHOUT EARS</th>
<th>REPLACEMENT PART NUMBER WITH EARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Male</td>
<td>4931-9-0-0</td>
<td>4931-9-1-0</td>
<td>4931-9-100-0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>4932-9-0-0</td>
<td>4932-9-1-0</td>
<td>4932-9-100-0</td>
</tr>
<tr>
<td>2</td>
<td>Male</td>
<td>4931-15-0-0</td>
<td>4931-15-1-0</td>
<td>4931-15-100-0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>4932-15-0-0</td>
<td>4932-15-1-0</td>
<td>4932-15-100-0</td>
</tr>
<tr>
<td>3</td>
<td>Male</td>
<td>4931-25-0-0</td>
<td>4931-25-1-0</td>
<td>4931-25-100-0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>4932-25-0-0</td>
<td>4932-25-1-0</td>
<td>4932-25-100-0</td>
</tr>
<tr>
<td>4</td>
<td>Male</td>
<td>4931-37-0-0</td>
<td>4931-37-1-0</td>
<td>4931-37-100-0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>4932-37-0-0</td>
<td>4932-37-1-0</td>
<td>4932-37-100-0</td>
</tr>
<tr>
<td>5</td>
<td>Male</td>
<td>4931-50-0-0</td>
<td>4931-50-1-0</td>
<td>4931-50-100-0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>4932-50-0-0</td>
<td>4932-50-1-0</td>
<td>4932-50-100-0</td>
</tr>
<tr>
<td>6</td>
<td>Male</td>
<td>-</td>
<td>-</td>
<td>4931-16-100-0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>-</td>
<td>-</td>
<td>4932-16-100-0</td>
</tr>
</tbody>
</table>

## INTERFACIAL SEAL
**AVAILABLE FOR MALE CONNECTORS ONLY**
**SUPPLIED AS STANDARD WITH ALL MALE WD AND WDD SERIES CONNECTORS**

**CONTACT ARRANGEMENT SIZE 25 INTERFACIAL SEAL**
(Shown for reference only)

- Material: Thermoplastic Elastomer (TPE), Santoprene™ or equivalent.

### CONTACT TECHNICAL SALES
FOR PART NUMBERS
**BLIND MATING SYSTEM**

**BLIND MATING GUIDE PINS**
TO OBTAIN BLIND MATING GUIDE PINS, ADD THE SUFFIX "-759.0" TO THE END OF THE PART NUMBER.

**FLOAT MOUNTING PLATE**
TO OBTAIN FLOAT MOUNTING PLATE, ADD THE SUFFIX "-759.1" TO THE END OF THE PART NUMBER.

**TYPICAL PART NUMBER:**
MD15M5R7000-759.0

**Material:** Steel with zinc plate and chromate seal or tin plate; stainless steel, passivated

**TYPICAL PART NUMBER:**
MD15F20000-759.1

**Material:** Aluminum, yellow anodize standard. Black anodize available.

**RD9S1000-759.1 and**
**HDC9M3S6000-14-759.0**

**ODD26M20000-759.1 and**
**ODD26F4R700S-759.0**

**SHELL SIZE**

<table>
<thead>
<tr>
<th>SHELL SIZE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D NOMINAL</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.964</td>
<td>1.596</td>
<td>1.661</td>
<td>2.258</td>
<td>0.677</td>
</tr>
<tr>
<td>2</td>
<td>1.312</td>
<td>1.914</td>
<td>2.208</td>
<td>2.805</td>
<td>0.677</td>
</tr>
<tr>
<td>3</td>
<td>1.652</td>
<td>2.461</td>
<td>2.849</td>
<td>3.446</td>
<td>0.789</td>
</tr>
<tr>
<td>SPECIAL SIZE 29</td>
<td>1.534</td>
<td>2.146</td>
<td>2.849</td>
<td>3.446</td>
<td>0.677</td>
</tr>
<tr>
<td>4</td>
<td>2.500</td>
<td>3.102</td>
<td>3.755</td>
<td>4.352</td>
<td>0.789</td>
</tr>
<tr>
<td>5</td>
<td>2.496</td>
<td>3.008</td>
<td>3.755</td>
<td>4.352</td>
<td>0.789</td>
</tr>
</tbody>
</table>

**DIMENSIONS ARE IN INCHES (MILLIMETERS).**
**ALL DIMENSIONS ARE SUBJECT TO CHANGE.**
**NEW!**

**SWAGEABLE PLASTIC MOUNTING BRACKET WITH ALIGNMENT BAR**

Non-conductive mounting brackets are necessary in many applications. Consult Technical Sales for complete part number.

**NEW!**

**CUL-DE-SAC STYLE MOUNTING ACCESSORIES**

**CODE C5 AND C7**

- **C5**
  - FIXED CABLE CONNECTOR
  - 4-40 UNC Threads
  - 0.350 [8.89]
  - Cul-de-sac style swage spacer

- **C7**
  - RIGHT ANGLE (90°) PRINTED BOARD MOUNT
  - 4-40 UNC Threads
  - 0.390 [9.91]
  - Cul-de-sac style swage spacer

**Material:** Steel with zinc plate and chromate seal or tin plate; stainless steel, passivated.

**NEW!**

**CODING DEVICE (KEYING) OPTIONS**

**UP TO EIGHT CODING DEVICE OPTIONS!**

Jackscrews can be supplied in configurations to allow for up to four coding device options, as shown in the table below. An additional four coding device options can be achieved by reversing the connector genders.

<table>
<thead>
<tr>
<th>OPTION</th>
<th>MALE CONNECTOR</th>
<th>CODE</th>
<th>FEMALE CONNECTOR</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2 male rotating</td>
<td>E</td>
<td>2 female fixed</td>
<td>T</td>
</tr>
<tr>
<td>2</td>
<td>2 female rotating</td>
<td>E6-833.7</td>
<td>2 male fixed</td>
<td>T6-866.1</td>
</tr>
<tr>
<td>3</td>
<td>1 female, 1 male rotating</td>
<td>E6</td>
<td>1 male, 1 female fixed</td>
<td>T6</td>
</tr>
<tr>
<td>4</td>
<td>1 male, 1 female rotating</td>
<td>E6-1827.1</td>
<td>1 female, 1 male fixed</td>
<td>T6-1827.0</td>
</tr>
</tbody>
</table>

**NOTE:**

1. Additional 4 options achieved by switching male and female connectors.
2. For jackscrew dimensional information see page 27.

DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.
Positronic HIGH RELIABILITY Products

**POWER**
- Contact Sizes: 0, 8, 12, 16, 20, 22 and 24
- Current Ratings: To 200 amperes per contact
- Terminations: Crimp and fixed cable connector, straight solder, right angle (90°) compliant press-in and right angle (90°) compliant press-in
- Configurations: Multiple variants in a variety of package sizes
- Compliance: PICMG 2.11, PICMG 3.0, VITA 41, DSCC, GSFC S-311-P-4, GSFC S-311-P-10
- **FEATURES:**
  - High current density
  - Energy saving - low contact resistance
  - Hot swap capability
  - AC/DC operation in a single connector
  - Signal contacts for hardware management
  - Blind mating
  - Sequential mating
  - Large surface area contact mating system
  - Wide variety of accessories
  - Customer-specified contact arrangements
  - Modular tooling which produces a single piece connector insert

**D-SUBMINIATURE**
- Contact Sizes: 8, 16, 20 and 22
- Current Ratings: To 13 amperes nominal
- Terminations: Crimp, wire solder, straight solder, right angle (90°) solder, straight compliant press-in
- Configurations: Multiple variants in both standard and high densities, thirty package sizes
- Qualifications: MIL-DTL-28748, SAE AS39029, CCITT V.35
- **FEATURES:**
  - Two performance levels available: industrial quality and military quality
  - A wide variety of accessories
  - Broad selection of contact arrangement and package sizes
  - Connector coding device (keying) options

**RECTANGULAR**
- Contact Sizes: 8, 16, 20 and 22
- Current Ratings: To 100 amperes
- Terminations: Crimp, wire solder, straight solder, right angle (90°) solder, straight compliant press-in and right angle (90°) compliant press-in
- Configurations: Multiple variants in both standard and high densities, seven connector housing sizes
- Qualifications: MIL-DTL-24308, GSFC S-311-P-4, GSFC S-311-P-10, SAE AS39029, DSCC
- **FEATURES:**
  - Four performance levels available for best cost/performance ratio: professional, industrial, military and space-flight quality
  - Options include high voltage, coax, thermocouple and air coupling contacts; environmentally sealed and dual port connector packages including mixed density contacts
  - Broad selection of accessories
  - Sizes 20 and 22 contacts suitable for use in carrying power
  - IP65, IP67

**CIRCULAR**
- Contact Sizes: 8, 12, 16, 20 and 22
- Current Ratings: To 25 amperes nominal
- Terminations: Crimp, wire solder, straight solder, and right angle (90°) solder
- Configurations: Multiple variants in four package sizes
- Compliance: Environmental protection to IP67
- **FEATURES:**
  - Intended for use as an electrical feedthrough in high vacuum applications
  - Helium leakage rate at ambient temperature: < 5x10^-11 mbar.l/s under a vacuum 1.5x10^-2 mbar
  - Signal, power, coax and high voltage versions available
  - Connectors can be mounted on flange assembly per customer specification

**CABLE**
- Contact Sizes: 0, 8, 12, 16, 20, 22 and 24
- Current Ratings: To 200 amperes per contact
- Terminations: Crimp, wire solder, straight solder, right angle (90°) solder, and straight compliant press-in
- Configurations: Multiple variants in a variety of package sizes
- Qualifications: PICMG 2.11, PICMG 3.0, VITA 41, DSCC, GSFC S-311-P-4, GSFC S-311-P-10
- **FEATURES:**
  - High current density
  - Energy saving - low contact resistance
  - Hot swap capability
  - AC/DC operation in a single connector
  - Signal contacts for hardware management
  - Blind mating
  - Sequential mating
  - Large surface area contact mating system
  - Wide variety of accessories
  - Customer-specified contact arrangements
  - Modular tooling which produces a single piece connector insert

For more information, visit [www.connectpositronic.com](http://www.connectpositronic.com) or call your nearest Positronic sales office listed on the back of this catalog.
Regional Headquarters

Positronic | USA
423 N Campbell Ave
Springfield MO 65806 USA
+1 800 641 4054
info@connectpositronic.com

Positronic | Europe
Z.I. d’Engachies
46, route d’Engachies
F-32020 Auch Cedex 9 France
+33 5 6263 4491
contact@connectpositronic.com

Positronic | Asia
3014A Ubi Rd 1 #07-01
Singapore 408703
+65 6842 1419
singapore@connectpositronic.com

Sales Offices
Positronic has local sales representation all over the world. To find the nearest sales office, please visit www.connectpositronic.com/locations