The CarlisleIT Tempe facility is a custom design facility that has vertically integrated manufacturing capability allowing for the machining of custom designs, manufacturing of specialty mold tooling, in-house molding (plastic and rubber) and specialty in-house assembly. This capability allows us to manufacture specialty non-filtered connectors and interconnects for unique applications. Specialty features may include non-standard shells and layouts, materials, locking mechanisms, and spring loaded contacts to mention a few. In addition, any of these special designs can incorporate filtering and/or Transient Voltage Suppression protection.

### Design Considerations

<table>
<thead>
<tr>
<th>Connector</th>
<th>EMI/RF</th>
<th>Filter Types</th>
<th>Termination</th>
<th>Mounting Hardware</th>
<th>Environmental</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circular</td>
<td>Filter</td>
<td>C</td>
<td>PC Tail</td>
<td>Clinch Nut</td>
<td>Thermal Cycle</td>
</tr>
<tr>
<td>Rectangular</td>
<td>Non-Filter</td>
<td>Pi</td>
<td>Soldercup</td>
<td>Helicoil</td>
<td>Thermal Shock</td>
</tr>
<tr>
<td>Other</td>
<td>High Speed RF Contacts</td>
<td>C-L/L-C</td>
<td>Crimp</td>
<td>Board Mounting Flange</td>
<td>Burn-in</td>
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<tr>
<td></td>
<td></td>
<td>T</td>
<td>Flying Lead</td>
<td>Jam Nut</td>
<td>Immersion</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cable Assembly</td>
<td>Adapter Shell</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Overmold</td>
<td>Jack Posts</td>
</tr>
</tbody>
</table>

### Cababilities

- 3-D Design capability
- In-house Machining
- In-house Micro to Medium Size Molding (UL certification option available)
- In-house Harness Overmolding
- In-house Assembly
- In-house Testing
Custom Connectors

MECHANICAL & ENVIRONMENTAL PERFORMANCE

Connectors are designed to meet customer specifications and the applicable MIL Specification requirements.

<table>
<thead>
<tr>
<th>Test Description</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Cycling</td>
<td>Method 1003, MIL-Std-1344, Condition A</td>
</tr>
<tr>
<td>Moisture Resistance</td>
<td>MIL-STD-202, Method 106</td>
</tr>
<tr>
<td>Durability</td>
<td>500 Matings at a rate of 200 ± 100 cycles per hour</td>
</tr>
<tr>
<td>Shock</td>
<td>Method 2004, MIL-STD-1344, Test Condition D</td>
</tr>
<tr>
<td>Vibration</td>
<td>Method 2005, MIL-STD-1344, Test Condition VI, Letter J, 8 Hours longitudinal and perpendicular axes</td>
</tr>
<tr>
<td>Fluid Immersion</td>
<td>MIL-STD-1344, Method 1016, Fluids (a) and (d)</td>
</tr>
<tr>
<td>Salt Spray</td>
<td>MIL-STD-202, Method 101, Condition B</td>
</tr>
<tr>
<td>Humidity</td>
<td>MIL-STD-1344, Method 1002, Condition B</td>
</tr>
</tbody>
</table>

Burn-in, thermal shock and thermal cycle testing available in-house

Zoned ovens ensures control over solder reflow

Automated solder dip equipment

Automated potting controls process and quality

Cellular manufacturing

CONNECT WITH US TODAY

See CarlisleIT’s line of Connectors & Adapters at: CarlisleIT.com/products/connectors-and-adapters

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