Molex’s 0.40mm Micro IDT Coaxial connector system was originally designed for cell phones and other consumer devices that have hinges for rotating LCDs. These micro wire-to-board systems include dozens of extremely thin wires in order to maneuver through twists and turns that are too severe for FPC to handle.

The 0.4mm Micro IDT Coaxial uses IDT technology to mass terminate the coaxial cable. The system includes both top and side entry style SMT PCB receptacles to meet various design needs. The connectors are fully shielded for EMI/RFI and noise protection and secure grounding. Along with top-and-side mount PCB connectors, the system also includes standard and custom-length IDT cable jumpers to fit various application needs.

Features and Benefits

**IDT Termination and Unique Grounding Features Provide Superior Shielding and Signal Integrity**

“Double Clamp” Grounding Method Provides

- Secure electrical connection by clamping outer conductor
- Secure wire positioning and strain relief by clamping cable jacket

**Mating/Unmating**

**Mating**
1. Align in parallel manner
2. Push down across full top of connector face
3. Friction lock will provide a tactile feel when fully mated

**Unmating**

Use extraction tool to unmate in parallel manner. Do not pull on wires or twist the connector.
## Applications

Mobile Phones  
Digital Cameras/Camcorders  
Test Connectors for High Speed Applications  
- Servers  
- High-end Hard Drives  
Notebook Computers  
PDAs  
Mini DVD Players  

MP3 Players  
Any application with a rotating LCD  
- automotive infotainment devices  
- portable patient monitoring devices (medical)  
- high resolution goggles  
- military and aerospace radios and portable devices  
- network cameras (surveillance, video conferencing)

## Selection Matrix

<table>
<thead>
<tr>
<th>PCB Receptacles</th>
<th>Description</th>
<th>Order No.</th>
<th>Circuits</th>
</tr>
</thead>
<tbody>
<tr>
<td>![PCB Receptacle Image]</td>
<td>PCB Receptacle, SMT, Top Entry</td>
<td>501083-3010</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>501083-4010</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td></td>
<td>501083-5010</td>
<td>50</td>
</tr>
<tr>
<td>![PCB Receptacle Image]</td>
<td>PCB Receptacle, SMT, Side Entry</td>
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<td>30</td>
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<tr>
<td></td>
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<tr>
<td></td>
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<td>501044-5010</td>
<td>50</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard-Length IDT Cable Jumpers</th>
<th>Configuration</th>
<th>Circuits</th>
<th>Wire Length</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Top Entry Image]</td>
<td>Side entry</td>
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<td>100.00mm</td>
<td>501800-3030</td>
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<tr>
<td>![Top Entry Image]</td>
<td>Top entry</td>
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<td>501800-4031</td>
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<tr>
<td>![Side Entry Image]</td>
<td>Top entry</td>
<td>50</td>
<td></td>
<td>501800-5031</td>
</tr>
</tbody>
</table>

Note: Cable assemblies for our Micro IDT Coaxial product range will often require custom lengths and other specific requirements. Please contact your Molex representative for ordering details.