Molex’s 0.50mm pitch FFC/FPC connectors with double the contacts per circuit offer the best combination of signal reliability, compactness, wide circuit size range and cable style choices of any similar version in the market.

Features and Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact design with two lower contacts per circuit</td>
<td>Ensures a clean mating interface and provides superior contact reliability</td>
</tr>
<tr>
<td>Cable ear-tab locking feature</td>
<td>Provides cable alignment, high retention force and easy actuation</td>
</tr>
<tr>
<td>Zero insertion force</td>
<td>Facilitates easy cable insertion</td>
</tr>
<tr>
<td>Wide range of circuit sizes (4-80)</td>
<td>Offers design flexibility</td>
</tr>
<tr>
<td>Vacuum pick-and-place area on top of housing</td>
<td>Provides easier board assembly and cost savings versus separate pick-and-place tape</td>
</tr>
</tbody>
</table>

Applications

Automobile Infotainment
- Display Audio
- Car Navigation

Consumer
- Flat Panel TV
- Portable Game
- Personal Navigation Equipment

Datacommunications
- Optical Disk Drives
- Tablet and Notebook PCs
- Printers and Copiers

Automobile Infotainment
- Flat Panel TV

Optical Disk Drives
- Optical Disk Drives

Printer
- Printer

Non-standard Cable Type, 2.50mm Height (104060 Series)

Notched Cable Type, 1.50mm Height (104234 Series)
### Specification

#### ELECTRICAL
- **Voltage (max.):** 50V
- **Current (max.):** 0.5A
- **Contact Resistance:** 40 milliohms max.
- **Dielectric Withstanding Voltage:**
  - 505110/502790: 125V AC (rms)
  - 104060/104234: 250V AC (rms)
- **Insulation Resistance:** 50 Megohm min.

#### PHYSICAL
- **Housing:** LCP (Beige); 104234 Series (Natural)
- **Actuator:** Polyamide Glass Filled (Black)
- **Terminal:** Phosphor Bronze
- **Fitting Nail:** Phosphor Bronze

#### MECHANICAL
- **Durability (min.):** 25 cycles

### Ordering Information

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Height</th>
<th>Depth</th>
<th>Cable Type</th>
<th>Circuit Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>104234-**17</td>
<td>1.50mm</td>
<td>5.30mm</td>
<td>Notched</td>
<td>51</td>
</tr>
<tr>
<td>505110-**92</td>
<td>1.90mm</td>
<td></td>
<td>Standard</td>
<td>04-19</td>
</tr>
<tr>
<td>505110-**91</td>
<td>2.50mm</td>
<td></td>
<td>Standard</td>
<td>20, 22, 24, 26, 28, 30, 35, 40, 45, 50, 60, 64, 68, 70, 80</td>
</tr>
<tr>
<td>502790-**91</td>
<td>2.50mm</td>
<td></td>
<td>Standard</td>
<td>30, 40, 50, 60, 64, 80</td>
</tr>
<tr>
<td>104060-**12</td>
<td>1.50mm</td>
<td></td>
<td>Non-standard</td>
<td>60, 80</td>
</tr>
</tbody>
</table>

(Replace ** with circuit size)

### Additional Product Features

**Double-Bottom-Contact Terminal Design**
The double-bottom-contact terminal design (right) removes dust and contaminants better than single-bottom-contact terminals, while providing stable redundant contact forces for secure electrical reliability.

**Ultra-Low-Profile Feature**
Various profile heights to meet different design requirements.

**Cable Locking Features**
Various cable locking features to meet different design requirements.

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www.molex.com/product/smt_ffc-fpc.html