Molex’s 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>Advantage</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

**Optical Disk Drives**

**Printer**

**Automobile Infotainment**

**Datacommunications**

**Optical Disk Drives**

**Printer**
**FFC/FPC Connectors**

**Double-Bottom Contacts**

*0.50/1.00mm Pitch*

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**Specification**

**REFERENCE INFORMATION**
- Packaging: Embossed tape
- Designed In: Millimeters
- RoHS: Yes
- Halogen Free: Low Halogen

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

**ELECTRICAL**
- Voltage (max.): 50V
- Current (max.): 0.5A
- Contact Resistance: 40 milliohms max.
- Dielectric Withstanding Voltage:
  - 200528/505110/502790: 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

**PLATING**
- Contact Area: Separated Gold
- Solder Tail Area: Separated Gold
- Underplating: Nickel
- Operating Temperature:
  - 505110-**96: -40 to +125°C
  - 200528/505110/502790: -40 to +105°C
  - 104060/104234: -20 to +85°C

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**Ordering Information**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Pitch (mm)</th>
<th>Mated Height (mm)</th>
<th>Mated Depth (mm)</th>
<th>Cable Type</th>
<th>Circuit Size</th>
<th>Operating Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>200528-0**0 (FD19)</td>
<td>1.00</td>
<td>1.90</td>
<td></td>
<td>Standard</td>
<td>04-19, 17,22</td>
<td>-40 to +105°C</td>
</tr>
<tr>
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<td>1.90</td>
<td>5.30mm</td>
<td>Standard</td>
<td>20,22, 24, 26, 28, 30, 35, 40, 45, 50, 60, 64, 68, 70, 80</td>
<td>-40 to +125°C</td>
</tr>
<tr>
<td>505110-**91 (FD19)</td>
<td>0.50</td>
<td>1.90</td>
<td></td>
<td>Standard</td>
<td>20,22, 24, 26, 28, 30, 35, 40, 45, 50, 60, 64, 68, 70, 80</td>
<td>-40 to +105°C</td>
</tr>
<tr>
<td>505110-**92 (FD19)</td>
<td>0.50</td>
<td>1.90</td>
<td></td>
<td>Standard</td>
<td>04-19</td>
<td>-40 to +105°C</td>
</tr>
<tr>
<td>502790-**91</td>
<td>0.50</td>
<td>2.50</td>
<td></td>
<td>Standard</td>
<td>30, 40, 50, 60, 64, 80</td>
<td>-20 to +85°C</td>
</tr>
<tr>
<td>104060-**17</td>
<td>0.50</td>
<td>2.50</td>
<td></td>
<td>Non-standard</td>
<td>20, 60, 80</td>
<td>-20 to +85°C</td>
</tr>
<tr>
<td>104234-**17</td>
<td>0.50</td>
<td>1.50</td>
<td></td>
<td>Notched</td>
<td>51</td>
<td>-20 to +85°C</td>
</tr>
</tbody>
</table>

(Replace ** with circuit size)

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**Additional Product Features**

**Double-Bottom-Contact Terminal Design**
The double-bottom-contact terminal design (right) removes dust and contaminants better than 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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Order No. 987650-7401 Rev. 12
APN/0k/RS/2016.04
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