Premo-Flex™ FFC jumpers, available in a variety of pitches, cable lengths and thicknesses, plus high-temperature ratings up to +105°C, deliver durable, ultra flexible, low-cost solutions for PCB connections in virtually any industry.

The complete line of 0.50, 1.00 and 1.25mm pitch flat flex cable (FFC) jumpers offers standard lengths, pitches and circuit sizes to accommodate a wide range of flexible interconnect requirements between two PC boards. Standard, off-the-shelf FFC cable jumpers reduce lead-times and tooling costs to the customer. In addition, Molex can also accommodate custom requirements for FFC cable jumpers in lengths of over 305mm, with prototype lead-times of around 1 week.

The flat flex jumpers are terminated to Zero Insertion Force (ZIF), non-ZIF or Low Insertion Force (LIF) FFC connectors, available from Molex. Premo-Flex standard flat flex jumpers are now available in extra flexible 0.12mm cable, ideal for complex board-to-board interconnections in confined spaces.

Molex offers an extensive range of FFC connectors and is able to design customized FFC connectors to customer requirements. Type A (same-side) and Type D (opposite-side) contact layouts allow for mirrored contacts in top- and bottom-mount ZIF applications. For additional information visit: www.molex.com/product/premoflex_ffc-fpc.html

FEATURES AND BENEFITS

- Available in numerous circuit sizes (4 to 60) and custom lengths
- Contact area can be configured on the same or opposite sides of the flexible cable jumper
- Rated up to +105°C
- Simple assembly process
- Various cable termination thicknesses
- Polyester insulation
- Extra flexible 0.12mm cable option
- Provides limitless design-in options
- Cable mirrors signal layout between PCBs
- Meets industry-standard requirements
- Ideal for electrical connections between PCBs, display boards, etc.
- Meets industry-standard ZIF connector requirements
- Ease-of-assembly in hard-to-reach applications
- Meets Registration Evaluation, Authorization and Restriction of Chemicals (REACH) requirements
- Extends life of cable: 900,000 cycles vs. standard jumper flex life of 6,000 cycles

MARKETS AND APPLICATIONS

- Automotive
  - Radio, CD, DVD, GPS device
  - LCD display
  - Keyboard
  - Moveable units
- Industrial
- Medical Equipment
- Military
- Home Appliance
  - Control Panels
- Consumer
  - Set top box
  - Camcorder
  - Plasma display
- Computer
  - Notebook
  - Printer
  - Scanner
  - Keyboard
  - LCD flat panel
- Automotive Electronics
- Surgery Lamp

Premo-Flex™ Flat Flex Cable Jumpers

<table>
<thead>
<tr>
<th>Cable Thickness 0.12mm</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>15166 Tin, 0.50mm Pitch, 105°C</td>
<td></td>
</tr>
<tr>
<td>15167 Tin, 1.00mm Pitch, 105°C</td>
<td></td>
</tr>
<tr>
<td>15168 Tin, 1.25mm Pitch, 105°C</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cable Thickness 0.22mm</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>98266 Tin, 0.50mm Pitch, 105°C</td>
<td></td>
</tr>
<tr>
<td>98267 Tin, 1.00mm Pitch, 105°C</td>
<td></td>
</tr>
<tr>
<td>98268 Tin, 1.25mm Pitch, 105°C</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cable Thickness 0.27mm</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>15266 Tin, 0.50mm Pitch, 105°C</td>
<td></td>
</tr>
<tr>
<td>15267 Tin, 1.00mm Pitch, 105°C</td>
<td></td>
</tr>
<tr>
<td>15268 Tin, 1.25mm Pitch, 105°C</td>
<td></td>
</tr>
<tr>
<td>15020 Gold, 0.50mm Pitch, 105°C</td>
<td></td>
</tr>
<tr>
<td>15039 Gold, 1.00mm Pitch, 105°C</td>
<td></td>
</tr>
<tr>
<td>15049 Gold, 1.25mm Pitch, 105°C</td>
<td></td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

**Reference Information**
- Packaging: Box
- UL Style No: 20706 (copper wire)
- Flame Resistance: UL 758 VW-1
- RoHS: Yes
- Halogen Free: Yes

**Physical**
- Temperature Rating: -40 to +105°C
- Heat Resistance: 168 hours at +136°C
- Moisture Resistance: 96 hours at +60°C, 95% Relative Humidity (RH)
- Folding: Specimen to be folded manually at +180° over a 4.00 mm (.157”) radius, min. 20 cycles

**Electrical**
- Voltage (max.): 60V
- Current (max.):
  - 0.50 mm Pitch — 0.5A
  - 1.00 mm Pitch — 1.2A
  - 1.25 mm Pitch — 1.4A
- Conductor Resistance: 730 ohms per km. max.
- Insulation Resistance: 10 Megohms per km. min.
- Dielectric Test: 200 V AC for 1 minute, no disrupted discharge

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Plating Material</th>
<th>Cable Thickness mm</th>
<th>Flex Life</th>
<th>Pitch mm</th>
<th>Temp Rating Max. °C</th>
<th>Circuits</th>
<th>Contact Layout Type</th>
<th>Cable Lengths</th>
<th>Minimum Order Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>15166-XXXX</td>
<td>Tin</td>
<td>0.12</td>
<td>2.5M</td>
<td>0.50</td>
<td>105</td>
<td>6 to 60</td>
<td>A or D</td>
<td>Standard lengths 30 up to 305mm</td>
<td>1000</td>
</tr>
<tr>
<td>15167-XXXX</td>
<td></td>
<td></td>
<td></td>
<td>1.00</td>
<td></td>
<td></td>
<td></td>
<td>Custom lengths available over 305mm</td>
<td></td>
</tr>
<tr>
<td>15168-XXXX</td>
<td></td>
<td></td>
<td></td>
<td>1.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>98266-XXXX</td>
<td>Tin</td>
<td>0.22</td>
<td>100K</td>
<td>0.50</td>
<td>105</td>
<td>6 to 50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>98267-XXXX</td>
<td></td>
<td></td>
<td></td>
<td>1.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>98268-XXXX</td>
<td></td>
<td></td>
<td></td>
<td>1.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15266-XXXX</td>
<td>Tin</td>
<td></td>
<td></td>
<td>0.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15267-XXXX</td>
<td></td>
<td></td>
<td></td>
<td>1.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15268-XXXX</td>
<td></td>
<td></td>
<td></td>
<td>1.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15020-XXXX</td>
<td>Gold</td>
<td>0.27</td>
<td>10K</td>
<td>0.50</td>
<td>105</td>
<td>6 to 50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15039-XXXX</td>
<td></td>
<td></td>
<td></td>
<td>1.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15049-XXXX</td>
<td></td>
<td></td>
<td></td>
<td>1.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Premo-Flex™ Flat Flex Cable Jumpers**

**Cable Thickness 0.12mm**
- 15166 Tin, 0.50 mm Pitch, 105°C
- 15167 Tin, 1.00 mm Pitch, 105°C
- 15168 Tin, 1.25 mm Pitch, 105°C

**Cable Thickness 0.22mm**
- 98266 Tin, 0.50 mm Pitch, 105°C
- 98267 Tin, 1.00 mm Pitch, 105°C
- 98268 Tin, 1.25 mm Pitch, 105°C

**Cable Thickness 0.27mm**
- 15266 Tin, 0.50 mm Pitch, 105°C
- 15267 Tin, 1.00 mm Pitch, 105°C
- 15268 Tin, 1.25 mm Pitch, 105°C
- 15020 Gold, 0.50 mm Pitch, 105°C
- 15039 Gold, 1.00 mm Pitch, 105°C
- 15049 Gold, 1.25 mm Pitch, 105°C