**Premo-Flex™ Round Flat Cable (RFC) Jumpers**

Delivering durable, low-cost direct-to-PCB connections for virtually any industry, Premo-Flex™ Round Flat Cable (RFC) Jumpers are available in a variety of pitches, circuit sizes and terminations.

### Features and Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round flat cable design</td>
<td>Delivers superior signal integrity and high resistance to vibration and bending. Ideal for rugged applications with space limitations</td>
</tr>
<tr>
<td>Direct connection to PCBs with simple assembly process utilizing wave solder</td>
<td>Creates cost savings by eliminating need for connectors or wire stripping. Ideal for electrical connections between PCBs, display boards, etc. in high-vibration applications</td>
</tr>
<tr>
<td>Hybrid terminations: zero insertion force (ZIF) or low insertion force (LIF) to through-hole soldering with round-to-flat or round throughout format options; custom pre-folds available</td>
<td>Enables design flexibility to interchange to different PCBs</td>
</tr>
<tr>
<td>Polyester, aramid and polyimide insulation options</td>
<td>Meets Registration Evaluation, Authorization and Restriction of Chemicals (REACH) requirements. Withstands high-temperature ratings: polyester up to +105°C, polyimide and aramid up to +125°C</td>
</tr>
</tbody>
</table>

### Applications

**Automotive**
- Radio, CD, DVD, GPS devices
- LCD displays
- Keyboards
- Moveable units

**Consumer / Home Appliance**
- Handheld devices
- Set top boxes
- Camcorders
- Plasma displays

**Data / Computing**
- Notebook
- Printer
- Scanner
- Keyboards
- LCD flat panels

**Industrial**

**Medical**

**Aerospace and Defense**
Premo-Flex™
Round Flat Cable (RFC) Jumpers

Specifications

REFERENCE INFORMATION
Packaging: Box
UL certification on request
RoHS: Yes
Direct Solder to PCB: Yes
Hybrid RFC Jumper Mates with:
  - Molex Zero Insertion Force (ZIF) and
  - Low Insertion Force (LIF) connectors
    (SMT: Series 49597, 52207, 52271, 52610;
    Through-hole: Series 5597, 52030)

ELECTRICAL
Voltage (max): 60V for pitches: 1.00, 1.25, 1.27mm
Voltage (max): 300V for pitches: 2.00, 2.54, 5.08mm
Current rating at 20°C:
  - 1.00mm Pitch — 1.0A
  - 1.25 and 1.27mm Pitch — 1.6A
  - 2.00mm Pitch — 2.0A
  - 2.54mm Pitch — 3.0A
  - 5.08mm Pitch — 3.0A

PHYSICAL
Plating Material: Tin
Temperature Rating: -40 to +125°C
Insulation Tape Temperature ratings:
  - Polyester: +105°C
  - Aramid: +125°C
  - Polyimide: +125°C

Ordering Information

<table>
<thead>
<tr>
<th>Custom Product</th>
<th>Pitch (mm)</th>
<th>Pin diameter (mm)</th>
<th>Flat Conductor Thickness (mm)</th>
<th>Flat Conductor Width (mm)</th>
<th>Wire Gauge (AWG)</th>
<th>Circuits (max.)</th>
<th>Contact Layout Type</th>
<th>Cable Lengths (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Molex</td>
<td>1.00</td>
<td>0.32</td>
<td>0.12</td>
<td>0.70</td>
<td>28</td>
<td>50</td>
<td>Flat / Round</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>1.25</td>
<td>0.32</td>
<td>0.10</td>
<td>0.80</td>
<td>28</td>
<td>50</td>
<td></td>
<td>76</td>
</tr>
<tr>
<td></td>
<td>1.27</td>
<td>0.32</td>
<td>0.10</td>
<td>0.80</td>
<td>28</td>
<td>50</td>
<td></td>
<td>127</td>
</tr>
<tr>
<td></td>
<td>2.00</td>
<td>0.40</td>
<td>0.10</td>
<td>1.30</td>
<td>26</td>
<td>37</td>
<td></td>
<td>152</td>
</tr>
<tr>
<td></td>
<td>2.54</td>
<td>0.51</td>
<td>0.12</td>
<td>1.50</td>
<td>24</td>
<td>32</td>
<td></td>
<td>176</td>
</tr>
<tr>
<td></td>
<td>5.08</td>
<td>0.51</td>
<td>0.12</td>
<td>1.50</td>
<td>24</td>
<td>13</td>
<td></td>
<td>203</td>
</tr>
</tbody>
</table>

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