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

Premo-Flex™ Flat Flex Cable Jumpers

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

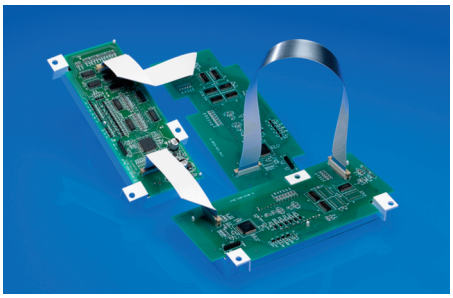
Cable Thickness 0.12mm
15166 Tin, 0.50mm Pitch, 105°C
15167 Tin, 1.00mm Pitch, 105°C
15168 Tin, 1.25mm Pitch, 105°C

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

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

FEATURES AND BENEFITS

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



Premo-Flex™ Flat Flex Jumpers

MARKETS AND APPLICATIONS

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

Automotive Electronics

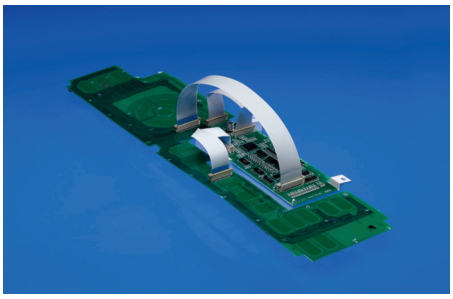
Surgery Lamp

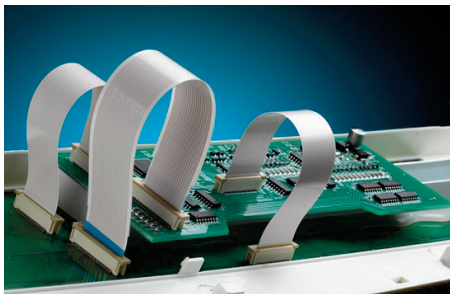
SPECIFICATIONS

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 4.00mm (.157") radius, min. 20 cycles

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





Control Panels

Premo-Flex™ Flat Flex Cable Jumpers

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

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

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

ORDERING INFORMATION

Series No.	Plating Material	Cable Thickness mm	Flex Life Cycles	Pitch mm	Temp Rating Max. °C	Circuits	Contact Layout Type	Cable Lengths	Minimum Order Quantity
15166-XXXX	Tin	0.12	2.5M	0.50	105	6 to 60	A or D	Standard lengths 30 up to 305mm Custom lengths available over 305mm	1000
15167-XXXX				1.00					
15168-XXXX				1.25					
98266-XXXX		0.22	100K	0.50		6 to 50			
98267-XXXX				1.00		4 to 50			
98268-XXXX				1.25					
15266-XXXX		.27	10K	0.50	105				
15267-XXXX				1.00		4 to 50			
15268-XXXX				1.25					
15020-XXXX	Gold			0.50		6 to 50			
15039-XXXX				1.00		4 to 50			
15049-XXXX				1.25					

Order No. 987650-6631 Rev. 1 Printed in EUR/GF/2015.05
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