

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

molex®

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 ultra-thin, ultra-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 | • 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 |
| • Ultra-thin, ultra-flexible 0.12mm cable option | • Extends life of cable: 900,000 cycles vs. standard jumper flex life of 6,000 cycles |

MARKETS AND APPLICATIONS

- | | |
|---|--|
| • Automotive <ul style="list-style-type: none">- Radio, CD, DVD, GPS device- LCD display- Keyboard- Moveable units | • Industrial <ul style="list-style-type: none">- Medical Equipment- Military- Home Appliance<ul style="list-style-type: none">- Control Panels |
| • Consumer <ul style="list-style-type: none">- Set top box- Camcorder- Plasma display | |
| • Computer <ul style="list-style-type: none">- Notebook- Printer- Scanner- Keyboard- LCD flat panel | |



Automotive Electronics



Premo-Flex™ Flat Flex Jumpers



Surgery Lamp

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

- | | |
|-------|---------------------------|
| 21020 | Tin, 0.50mm Pitch, 80°C |
| 21039 | Tin, 1.00mm Pitch, 80°C |
| 21049 | Tin, 1.25mm Pitch, 80°C |
| 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 |

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

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

21020 Tin, 0.50mm Pitch, 80°C
21039 Tin, 1.00mm Pitch, 80°C
21049 Tin, 1.25mm Pitch, 80°C
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



Control Panels

ORDERING INFORMATION

Series No.	Plating Material	Cable Thickness mm	Pitch mm	Temp Rating Max. °C	Circuits	Contact Layout Type	Cable Lengths	Minimum Order Quantity		
15166-XXXX	Tin	0.12	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	0.50		6 to 50					
98267-XXXX			1.00		4 to 50					
98268-XXXX			1.25							
21020-XXXX		0.27	0.50	80	6 to 50					
21039-XXXX			1.00							
21049-XXXX			1.25							
15266-XXXX			Gold	0.50					105	4 to 50
15267-XXXX				1.00						
15268-XXXX				1.25						
15020-XXXX	0.50			6 to 50						
15039-XXXX	1.00			4 to 50						
15049-XXXX	1.25									

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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