

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

**molex**®

**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

### Round Flat Cable (RFC) Jumpers – Custom Product

Round flat cable design

Delivers superior signal integrity and high resistance to vibration and bending. Ideal for rugged applications with space limitations

Direct connection to PCBs with simple assembly process utilizing wave solder

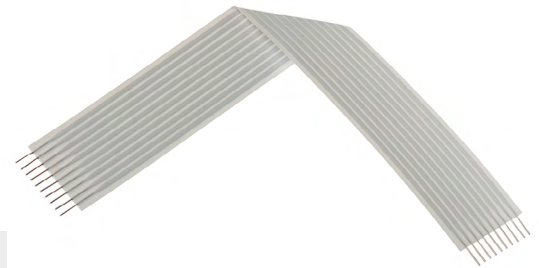
Creates cost savings by eliminating need for connectors or wire stripping. Ideal for electrical connections between PCBs, display boards, etc. in high-vibration applications

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

Enables design flexibility to interchange to different PCBs

Polyester, aramid and polyimide insulation options

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



Premo-Flex™ Round Flat Cable (RFC) Jumper

## 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



Automotive Electronics



Consumer Handheld Devices



Notebooks

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## 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

Custom Product	Pitch (mm)	Pin diameter (mm)	Flat Conductor Thickness (mm)	Flat Conductor Width (mm)	Wire Gauge (AWG)	Circuits (max.)	Contact Layout Type	Cable Lengths (mm)
Contact Molex	1.00	0.32	0.12	0.70	28	50	Flat / Round	30
	1.25	0.32	0.10	0.80	28	50		51
	1.27	0.32	0.10	0.80	28	50		76
	2.00	0.40	0.10	1.30	26	37		102
	2.54	0.51	0.12	1.50	24	32		127
	5.08	0.51	0.12	1.50	24	13		152
								178
								203
								229
								254
								305

[www.molex.com/product/premoflex\\_ffc-fpc.html](http://www.molex.com/product/premoflex_ffc-fpc.html)