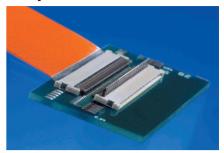
### INTRODUCTION

Molex offers a wide variety of ultra low-profile SMT FFC/FPC connectors for tight packaging applications. Features include profile heights as low as 0.90mm (.035"), pull-type and flip-type actuators, straight and right-angle versions, and circuit sizes from 4–60. See Molex's website for further details, drawings, and the latest updates to our ultra low-profile FFC/FPC connector range.

#### Specifications:

- Current: 0.5A
- Voltage: 50V
- Circuit Size Range: 4-60
- Contact Resistance:  $40m\Omega$  max.
- Insulation Resistance: 50MΩ min.
- Withstanding Voltage: 250V AC/1 minute
- Packaging: Embossed Tape

# Control of the con



New BackFlip™ 0.90mm (.035") Height Connector

#### **SELECTION MATRIX**

#### 0.30mm (.012") Pitch FFC/FPC Connectors

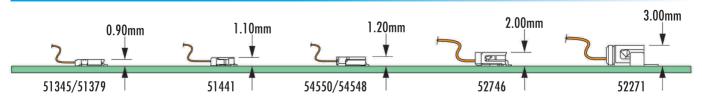
	Description	Series Number*	Circuit Size	Actuator/Contact Type	Housing/Actuator Material (UL 94V-0)	FFC/FPC
	<mark>Height:</mark> 1.30mm ZIF, Right Angle	54809	11, 15, 19, 21, 25, 27, 31, 33, 39, 45, 51	Easy-On <sup>™</sup> Bottom Contact	LCP/PPS	0.20mm Thickness

#### 0.50mm (.020") Pitch FFC/FPC Connectors

	Description	Series Number*	Circuit Size	Actuator/Contact Type	Housing/Actuator Material (UL 94V-0)	FFC/FPC
	Height: 0.90mm ZIF, Right Angle	51345	4, 6, 17, 18, 40	BackFlip™ Easy-On™ Top Contact	LCP/PPS	0.12mm Thickness
	Height: 0.90mm ZIF, Right Angle	51379	4, 5, 7, 12	Pull Type Top Contact	LCP/PPS	0.20mm Thickness
	Height: 1.10mm ZIF, Right Angle	51441	6, 7, 8, 9, 10, 11, 12, 16, 17, 18, 20, 22, 24	Easy-On™ Bottom Contact	LCP/PPS	0.30mm Thickness
Sinni-	Height: 1.20mm ZIF, Right Angle	54550	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 25, 26	Pull Type Top Contact	LCP/PPS	0.30mm Thickness ( 26 Ckt. = 0.28mm )
	Height: 1.20mm ZIF, Right Angle	54548	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26	Pull Type Bottom Contact	LCP/PPS	0.30mm Thickness ( 26 Ckt. = 0.28mm )
	Height: 1.20mm Non-ZIF, Right Angle	51281	5, 6, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24, 26	No Actuator Dual Contact	LCP (No Actuator)	0.30mm Thickness
	Height: 1.30mm ZIF, Right Angle	51296	8, 12, 14, 18, 45	Easy-On™ Bottom Contact	LCP/Polyamide	0.30mm Thickness
Section 1997	Height: 4.05mm (Locked) ZIF, Vertical	51374	10, 13, 15, 20, 26, 30, 33, 40, 45, 50, 60	Easy-On™ Vertical	LCP/PPS	0.30mm Thickness

Note: Contact Molex for ordering details, plating options and additional circuit sizes.

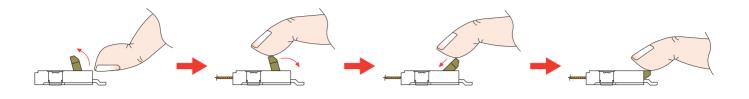
#### FFC/FPC HEIGHT COMPARISION





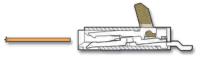
# 0.30 and 0.50mm Pitch Ultra Low-Profile SMT FFC/FPC Connectors

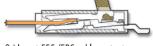
#### **External View: Locking Feature**



#### Internal View: Actuator on Contact

New 0.90mm (.035") Height BackFlip™ Connector Provides Space Saving and Easy Cable Insertion/Extraction









1.) Flip open actuator and rotate back fully.

2.) Insert FFC/FPC cable; actuator stays propped open from friction lock feature.

 Press down on actuator; the camming motion moves the terminal into contact with the FPC. 4.) Press down until actuator lock is fully engaged; high contact forces provide secure FPC retention.



## ULTRA LOW-PROFILE FPC-to-BOARD

Molex offers other ultra low-profile connectors, including our new 0.95mm (.037") height single-row FPC-to-Board version on 0.40mm (.016") pitch.

See Molex's website for more information.

Plug	Receptacle		
500464-XXXX	500463-XXXX		

Note: Circuit Sizes 07—22; see Molex's website for additional details.

See www.molex.com for drawings and details.



Bringing People & Technology Together, Worldwide<sup>SM</sup>

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