

# Easy-On FFC/FPC Connector 0.50mm Pitch

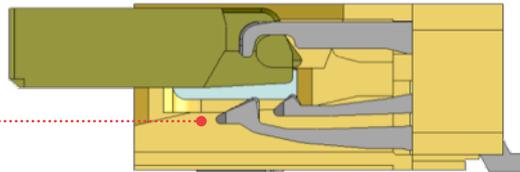
**molex**

Molex's 0.50mm pitch FFC/FPC connectors with single and double contacts offer the best combination of signal reliability and compactness with a wide range of circuit size, height and cable styles. These connectors are ideal for tight-packaging applications

## Features and Benefits

### Double-bottom Contact Terminal Design

The double-bottom-contact terminal design removes dust and contaminants (better than single-bottom-contact terminals) and provides stable redundant contact forces for secure electrical reliability



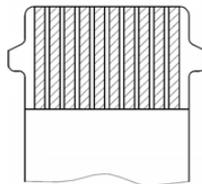
Double-contact type

### Vacuum pick-and-place area on top of housing

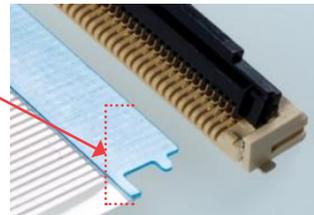
Provides easier board assembly and cost savings

### Cable ear-tab locking

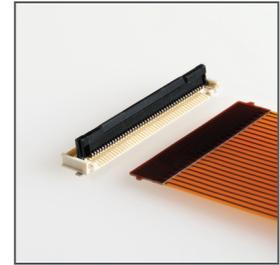
Provides cable alignment, high retention force and easy actuation



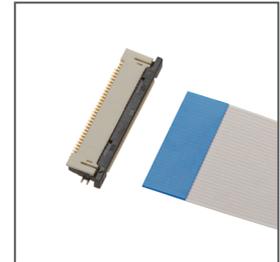
Standard ear-tab



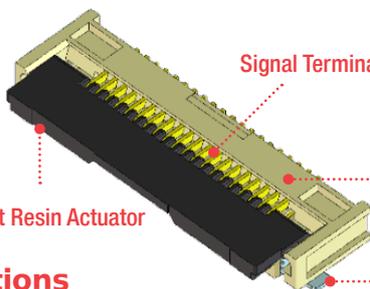
Custom-style ear tab



505110 Series



54132 Series



Signal Terminal Gold (plated)

Heat Resistant Resin Housing

Heat Resistant Resin Actuator

Nail  
Tin over Nickel plated

Zero insertion force  
Facilitates easy cable insertion

Wide range of circuit sizes (4 to 80)  
Offers design flexibility

Ultra Low Profile  
Achieves space-savings to meet different design requirements

## Applications

### \*Automotive

- Car Infotainment
- Display audio
- Car navigation

### Consumer

- Flat TV
- Portable unit
- Personal navigation equipment
- VR / AR

### Data Communications

- Optical disk drives
- Tablet and notebook PCs

### Office Equipment

- Printers and copiers

### Medical

- Patient monitoring

### Industry

- UAV (Drone)
- Robotics



\*Car Infotainment



Flat TV



3D Glass



Medical Device



POS



Portable Gaming Equipment

\*For 505110 series only

# Easy-On FFC/FPC Connector 0.50mm Pitch



## Specifications

### REFERENCE INFORMATION

Packaging: Embossed Tape  
Mates With: FFC or FPC  
Designed In: Millimeters  
RoHS: Yes  
Halogen Free: Yes=503480 and 505110

### ELECTRICAL

Voltage (max.): 50V  
Current (max.): 0.4A or 0.5A  
Contact Resistance: 20, 40, 100 Milliohms max.  
Dielectric Withstanding Voltage: 125V or 200V or 250V AC  
Insulation Resistance: 50 Megaohms min.

### MECHANICAL

Durability (max.): 20 cycles

### PHYSICAL

Housing: Heat Resistance Resin  
Contact: Copper Alloy  
Contact Area - Gold  
Solder Tail Area - Gold  
Underplating - Nickel  
Operating Temperature: -40 to +85°C

## Ordering Information

Series Number	Image	Mated Height	Width	Circuit Size	Orientation	Actuator Type	Contact Type	Contact Plating	Current (max.)	Voltage (max.)	FPC Thickness (mm)
<a href="#">503480</a>		1.00	4.00	4 to 32	Right Angle	Back Flip	Dual	Gold	0.5A	50V	0.30
<a href="#">505110</a>		1.90	5.30	4 to 80		Front Flip	"Double Bottom"	Gold	0.5A	50V	0.30
<a href="#">52745</a>		2.00	5.00	4 to 20		Slider	Upper	Gold	0.5A	50V	0.30
<a href="#">52435</a>		2.00	5.20	21 to 30		Slider	Upper	Gold	0.5A	50V	0.30
<a href="#">54104</a>		2.00	5.60	30 to 50		Slider	Upper	Gold	0.5A	50V	0.30
<a href="#">52746</a>		2.00	5.00	4 to 20		Slider	Bottom	Gold	0.5A	50V	0.30
<a href="#">52437</a>		2.00	5.20	21 to 30		Slider	Bottom	Gold	0.5A	50V	0.30
<a href="#">54132</a>		2.00	5.60	30 to 50		Slider	Bottom	Gold	0.5A	50V	0.30
<a href="#">52559</a>			3.90	3.50		6 to 42	Slider	Single	Gold	0.5A	50V
<a href="#">501951</a>		4.05	4.50	20 to 70	Vertical	Flip	Single	Gold	0.4A	50V	0.30

[www.molex.com/smt\\_0.50mm-ffc-fpc.html](http://www.molex.com/smt_0.50mm-ffc-fpc.html)

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