

Easy-On FFC/FPC Connector 0.50mm Pitch

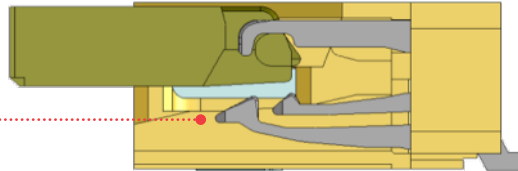
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Molex's 0.50mm pitch FFC/FPC connectors with single and double contacts offer the best combination of signal reliability and compactness with a wide range of circuit size, height and cable styles. These connectors are ideal for tight-packaging applications

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



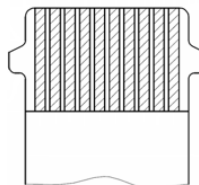
Double-contact type

Vacuum pick-and-place area on top of housing

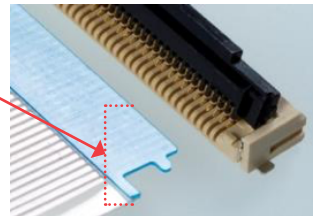
Provides easier board assembly and cost savings

Cable ear-tab locking

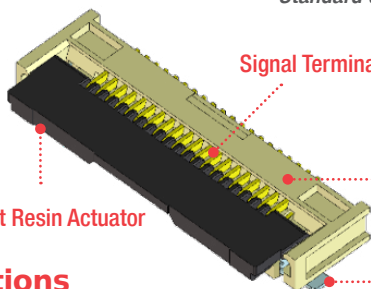
Provides cable alignment, high retention force and easy actuation



Standard ear-tab



Custom-style ear tab



Signal Terminal Gold (plated)

Heat Resistant Resin Housing

Heat Resistant Resin Actuator

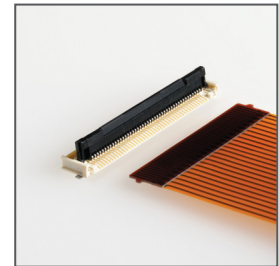
Nail
Tin over Nickel
plated

Zero insertion force

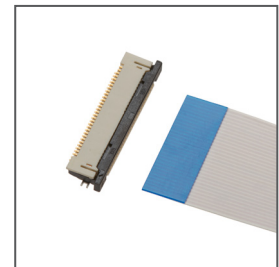
Facilitates easy cable insertion

Wide range of circuit sizes (4 to 80)

Offers design flexibility



505110 Series



54132 Series

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

Ultra Low Profile

Achieves space-savings to meet different design requirements

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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)
503480		1.00	4.00	4 to 32	Right Angle	Back Flip	Dual	Gold	0.5A	50V	0.30
505110		1.90	5.30	4 to 80		Front Flip	"Double Bottom"	Gold	0.5A	50V	0.30
52745		2.00	5.00	4 to 20		Slider	Upper	Gold	0.5A	50V	0.30
52435		2.00	5.20	21 to 30		Slider	Upper	Gold	0.5A	50V	0.30
54104		2.00	5.60	30 to 50		Slider	Upper	Gold	0.5A	50V	0.30
52746		2.00	5.00	4 to 20		Slider	Bottom	Gold	0.5A	50V	0.30
52437		2.00	5.20	21 to 30		Slider	Bottom	Gold	0.5A	50V	0.30
54132		2.00	5.60	30 to 50		Slider	Bottom	Gold	0.5A	50V	0.30
52559		3.90	3.50	6 to 42	Vertical	Slider	Single	Gold	0.5A	50V	0.30
501951		4.05	4.50	20 to 70		Flip	Single	Gold	0.4A	50V	0.30

www.molex.com/smt_0.50mm-ffc-fpc.html

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