

Molex's newest 0.30mm pitch dual-contact FPC connector offers the most compact dimensions of any equivalent competitive version, while eliminating the need to source a top and bottom-style connector when routing FPC to parallel boards

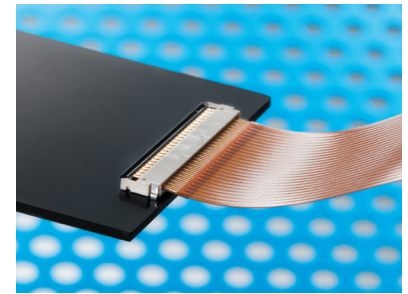
Molex developed its 502598 dual-contact FPC connector for consumer applications such as digital still cameras that required overall compact features. Designers for these applications were also looking for a dual-contact version that would enable them to source a single connector and utilize the same PCB pattern on adjoining parallel PCBs. Molex's new 502598 solution met these needs and more.

Molex offers another 0.30mm-pitch dual-contact version with a lower profile, series 502250, which is ideal for ultra-thin applications such as certain cell phone designs. However, the new 502598 FPC connector offers a shorter depth than the 502250 version and other similar competitive versions and is suitable for applications needing an overall compact size.

This new version also includes a unique terminal design that includes movable contacts. This helps maintain secure connection between FPC contact pads and terminals even when the FPC cable is pulled up.

## 0.30mm (.012") Pitch Easy-On™ BackFlip™ FPC Connector, Right Angle, SMT, 1.15mm (.045") Height

### 502598 Dual-Contact Style



New 502598 dual-contact  
FPC connector with narrow width

## FEATURES AND BENEFITS

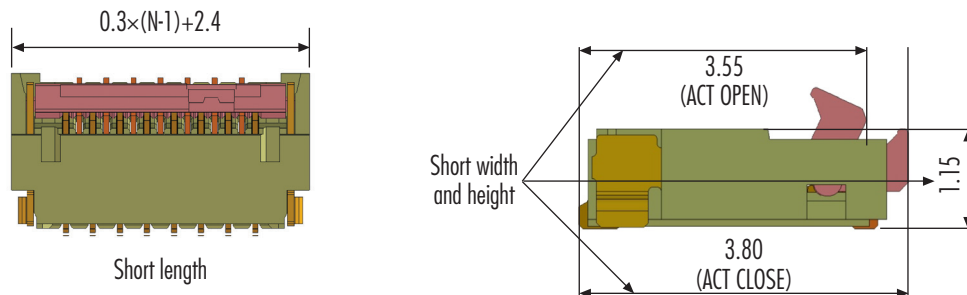
### Features

- Dual-contact design
- Compact depth, height and width
- Movable contacts
- BackFlip™ actuator with short latch
- Front wide solder tabs

### Benefits

- Eliminates the need for different top and bottom-mount connectors
- Space savings for mobile device and tight-packaging applications
- Maintain secure and stable connections even when cable is pulled upward
- Easy cable insertion, actuation and additional space savings
- Secure PCB retention and protection for solder joints

## ADDITIONAL PRODUCT FEATURES



## MARKETS AND APPLICATIONS

- Digital still cameras
- Digital video cameras
- Mobile Devices
  - Cell phones
  - Tablet PCs
- Portable audio equipment
- Portable GPS equipment
- Other compact, handheld devices



SPECIFICATIONS

Reference Information

- Packaging: Embossed
- Use With: 0.20mm thick FPC cable
- Designed In: mm
- RoHS Compliant: Yes

Electrical

- Voltage (max.): 50V AC (RMS)/DC
- Current (max.): 0.2A
- Contact Resistance: 60 milliohms max.
- Dielectric Withstanding Voltage: 250V AC
- Insulation Resistance: 50 Megohms max.

Mechanical

- Durability (min.): 10 cycles

Physical

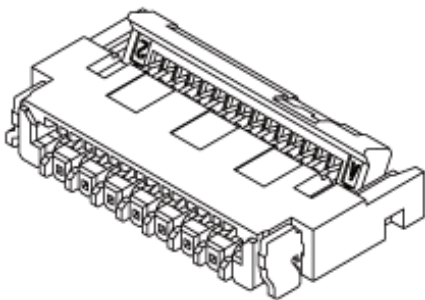
- Housing: LCP White
- Contact: Copper alloy
- Plating:
  - Contact Area — Gold
  - Solder Tail Area — Gold
  - Underplating — Nickel
- Operating Temperature: -40 to +85 °C

0.30mm (.012”) Pitch  
Easy-On™ BackFlip™  
FPC Connector,  
Right Angle, SMT,  
1.15mm (.045”) Height

502598 Dual-Contact Style

ORDERING INFORMATION

Connector



Order No.	Circuits	Width
502598-2393	23	3.80mm(.150")
502598-2593	25	
502598-2793	27	
502598-2993	29	
502598-3393	33	
502598-3993	39	
502598-4593	45	
502598-5193	51	

Part Number -xx93 replaces -xx91 due to a terminal material change. Contact Molex for further details.