

# 0.25mm Pitch FPC Connectors

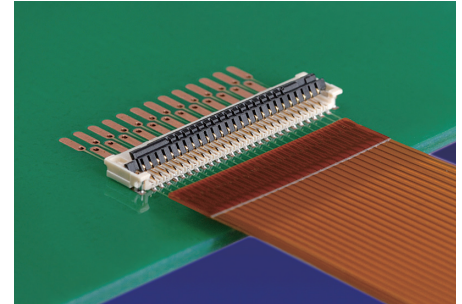
*Right Angle, SMT, ZIF*

**molex®**

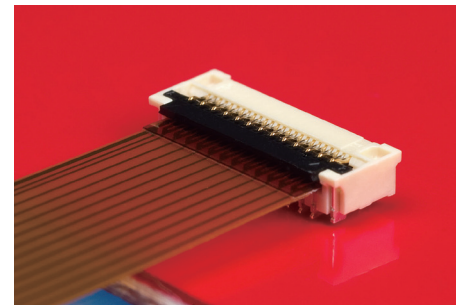
**The 0.25mm Pitch FPC Connector family features a range of sizes and styles to accommodate other PCB components and add space savings**

## Features and Benefits

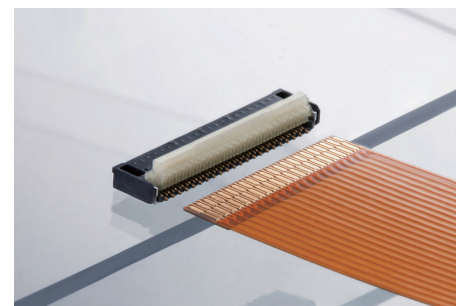
Compact design	Overall space savings for tight packaging applications
Spring feature on odd and even contacts	Higher contact and cable retention reliability, and protection to FPC cable pads
Actuator-to-housing friction lock	Increased mating retention and an audible “click” when mating
Space underneath FPC (503320 only)	Provides customers more PCB space to place components
Solder tabs under housing and footprint compatible	Space savings, and enables three different connector heights with same footprint design
Extended actuator design (except 502078-***10)	Easier handling, especially for larger circuit sizes
Zero Insertion Force (ZIF) contact design	Smooth cable insertion and extraction



502078 Series



503320 Series



503300 Series

## Applications

### Consumer

Smart Phone / Mobile Phone  
Tablet PC  
Digital Still Camera / Video Camera  
Wearable Device  
Medical Device  
Fingerprint / Voice Recognition  
Portable Navigation Equipment  
Portable Game  
Notebook PC  
UAV / Drone



Smart phones



Portable Medical Devices



Drone

# 0.25mm Pitch FPC Connectors

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## Specifications

### REFERENCE INFORMATION

Packaging: Embossed Tape  
Use With: 0.20mm thick FFC/FPC  
Designed In: Millimeters  
RoHS: Yes  
Low-Halogen Status: Low-Halogen

### ELECTRICAL

Voltage (max.): 50V  
Current (max.): 502078, 503300 - 0.2A  
503320 - 0.3A  
Contact Resistance:  
502078, 503320  
80 milliohms max. (Odd terminal)  
50 milliohms max. (Even terminal)  
503300  
80 milliohms max. (Odd terminal)  
60 milliohms max. (Even terminal)  
Dielectric Withstanding Voltage: 150V AC  
Insulation Resistance: 50 Megohm min.

### MECHANICAL

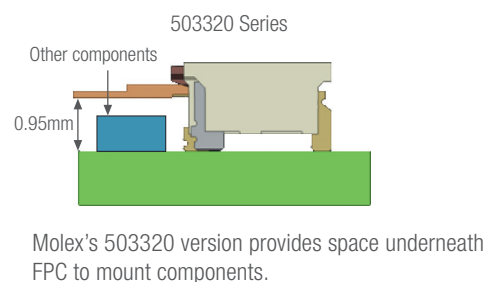
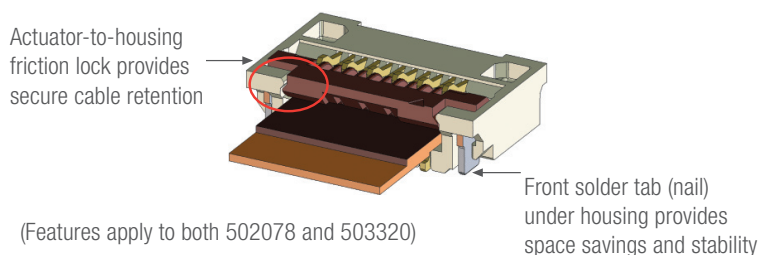
Durability (min.): 10 mating cycles

### PHYSICAL

Housing/Actuator  
502078-\*\*10: Thermoplastic resin  
502078-\*\*60/62, 503320, 503300: LCP  
Contact  
502078-\*\*60/62, 503320: Copper Alloy  
502078-\*\*10, 503300: Phosphor Bronze  
Plating:  
Contact Area — Gold  
Solder Tail Area — Gold  
Underplating — Nickel  
Nail — Tin  
Operating Temperature  
502078: -20 to +85°C  
503320, 503300: -40 to +85°C

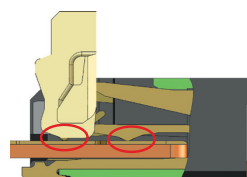
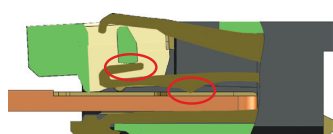
## Additional Product Features

### Locking and Space Saving Features for 502078 and 503320



### Product Features of 503300

- 1) Moving terminals provide superior contact and actuator reliability    2) Full ZIF design



## Ordering Information

Order No.	Description	Circuit Sizes	Height (mm)	Width (mm)	Quantity (pieces/reel)
<u>502078-**10</u>	1.00mm Height, Bottom Contact, Short Actuator	17, 21, 25, 33, 39, 51	1.00	2.75	3,000
<u>502078-**60</u>	1.00mm Height, Bottom Contact, Long Actuator	13, 17, 21, 25, 33, 37, 39, 51, 53, 61		2.98	3,000
<u>502078-**62</u>		45			6,000
<u>503320-**60</u>	1.62mm Height, Bottom Contact	25, 37, 41	1.65	2.98	3,000
<u>503300-**10</u>	1.20mm Height, Top Contact	21, 29, 31, 37, 41, 43, 53	1.20	3.20	3,000

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