

# One-Touch LVDS FFC Connector, 0.50mm Pitch

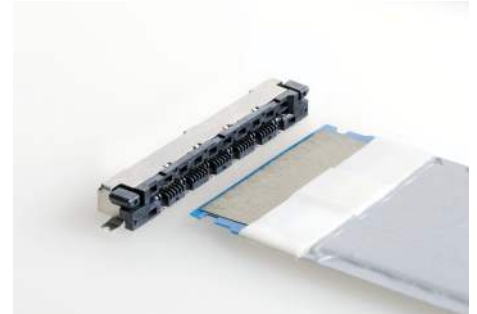
Non-ZIF, With Side Locks

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FFC connector with side locks and one-touch insertion provides easy operability for high-speed LVDS applications

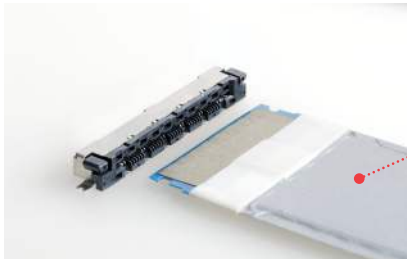
## Features and Advantages

One-touch cable insertion	Enables simplified cable assembly for operators
Side locking latches	Provide space savings and easy operation; avoid unexpected lock release due to external force from above while providing no stress on PCB below
Integral metal shield and grounding tabs	Achieve up to 5.4 Gbps data transmission rates to meet high-speed standards such as DisplayPort and V-by-One HS
High cable retention force	Provides superior contact reliability versus similar designs and actuator-type versions
Rounded cable release side locks	Provide easy cable-release operation with thoughtful design



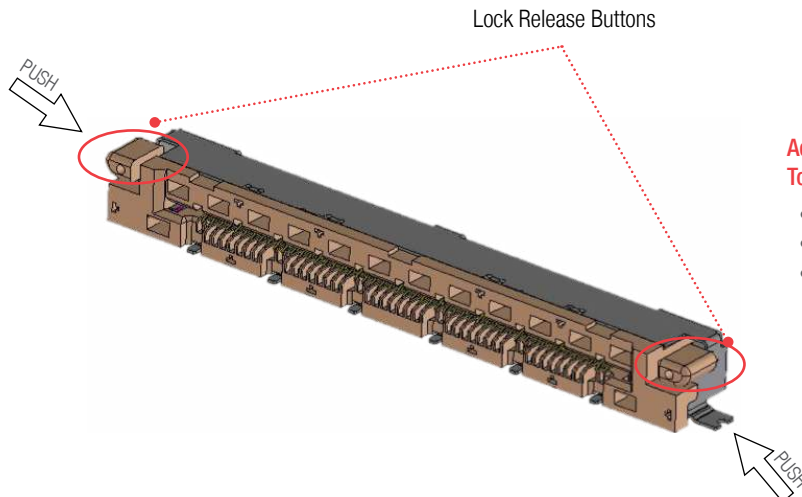
503908 Series, with User-Friendly one-touch cable insertion for high-speed LVDS applications

### “One-Touch” Cable Insertion



FFC is inserted and locked into place with one touch

### Side Buttons for Cable Lock Release



Lock Release Buttons

### Advantages Versus Competitive Top-Button Designs

- Space savings
- No downward stress on PCB in order to release FFC
- Avoid unexpected lock release due to external force from chassis

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## Applications

### Consumer

- Flat Panel TV
- Notebook PC
- Other devices with flat panel display

### Car Infotainment

- Car Audio

### Entertainment

- Gaming Machines



Car Audio



PC



Gaming Machine

## Specifications

### REFERENCE INFORMATION

Packaging: Embossed tape  
Designed In: Millimeters  
RoHS: Yes  
Halogen Free: Low Halogen

### ELECTRICAL

Voltage (max.): 50V  
Current (max.): 0.5A  
Contact Resistance: 40 milliohms max.  
Dielectric Withstanding Voltage: 150V AC (rms)  
Insulation Resistance: 50 Megohm min.

### MECHANICAL

Durability (min.): 20 cycles

### PHYSICAL

Housing: LCP (Black)  
Terminal: Copper Alloy  
Shell: Phosphor Bronze

### PLATING

Contact Area: Gold over nickel  
Shell: Tin over nickel  
Operating Temperature: -20 to +85°C

## Ordering Information

Order No.	Circuit Size
<a href="#">503908-4120</a>	41
<a href="#">503908-5120</a>	51

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

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