

One-Touch LVDS FFC Connector, 0.50mm Pitch

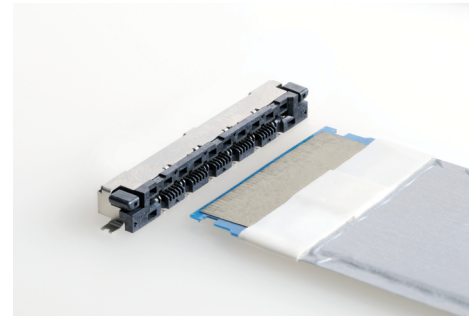
Non-ZIF, With Side Locks

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

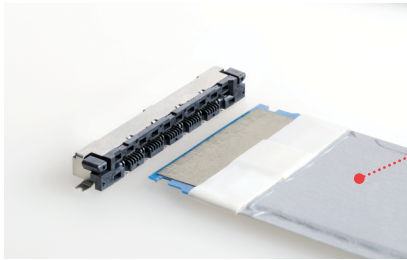
Features and Advantages

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



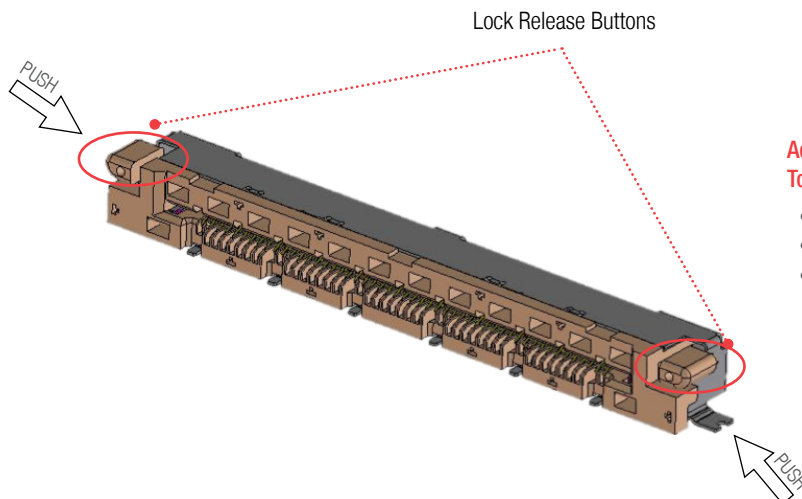
503908 Series, with User-Friendly one-touch cable insertion for high-speed LVDS applications

“One-Touch” Cable Insertion



FFC is inserted and locked into place with one touch

Side Buttons for Cable Lock Release



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
503908-4120	41
503908-5120	51

www.molex.com/product/smt_ffc-fpc.html

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