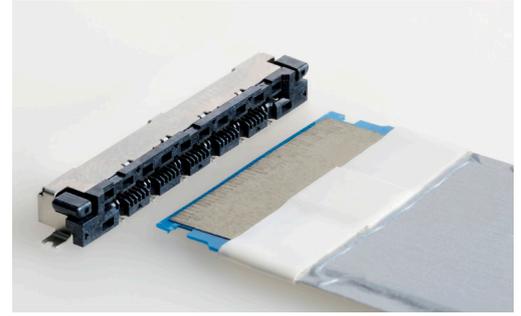


One-Touch LVDS FFC Connector, 0.50mm Pitch

Non-ZIF, With Side Locks

molex[®]

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



503908 series, with user-friendly one-touch cable insertion for high-speed LVDS applications

Features and Benefits

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 Superior contact reliability versus similar designs and actuator-type versions

Industry-standard footprint Drop-in compatible with competitive designs

Rounded cable release side locks Superior contact reliability versus similar designs and actuator-type versions

Applications

Consumer

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

Car Infotainment

- Car Audio

Entertainment

- Gaming Machines



Flat Panel TV



Car Audio



PC



Gaming Machines

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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

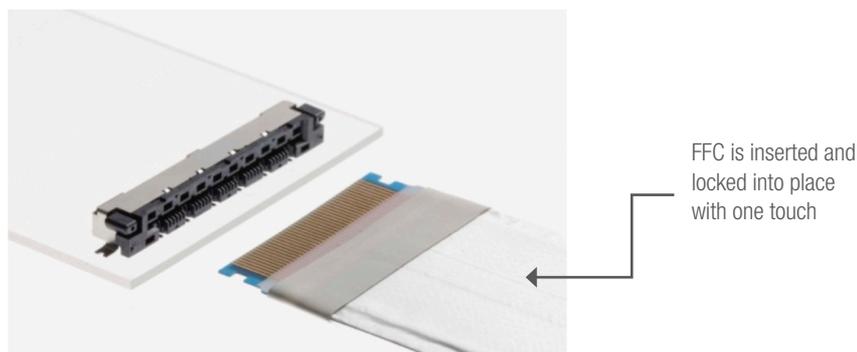
Contact Area: Gold over nickel
 Shell: Tin over nickel
 Operating Temperature: -20 to +85°C

Ordering Information

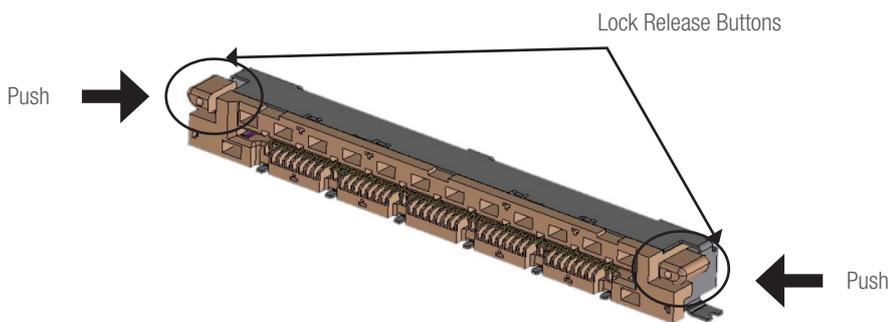
Order No.	Circuit Size
503908-4100	41
503908-5100	51

Additional Product Features

“One-Touch” Cable Insertion



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

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