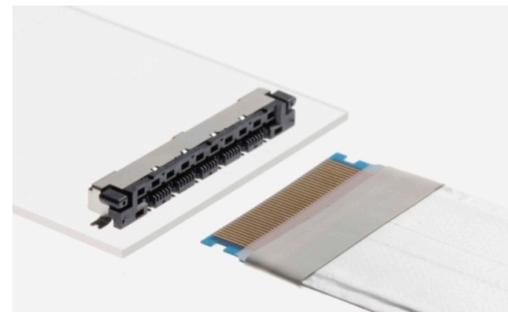


# FFC LVDS “One-Touch” Connector, 0.50mm Pitch

## Non-ZIF, With Side Locks

**molex**<sup>®</sup>

**FFC connector with side locks and one-touch insertion provides easy operability 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 and 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

503908 Series, With User-Friendly “One-touch” cable insertion for high-speed LVDS applications

### Applications

#### Consumer

Flat Panel TV



PC

Other devices with flat panel display

#### Car Infotainment

Car Audio



#### Entertainment

Gaming Machines

Flat Panel TV



Gaming Machines

PC

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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

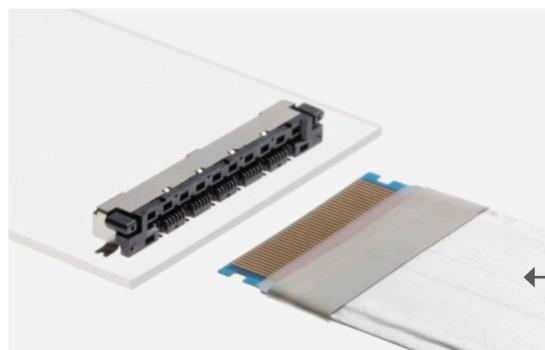
Contact Area: Gold over nickel  
Shell: Tin over nickel  
Operating Temperature: -20 to +85°C

### Ordering Information

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

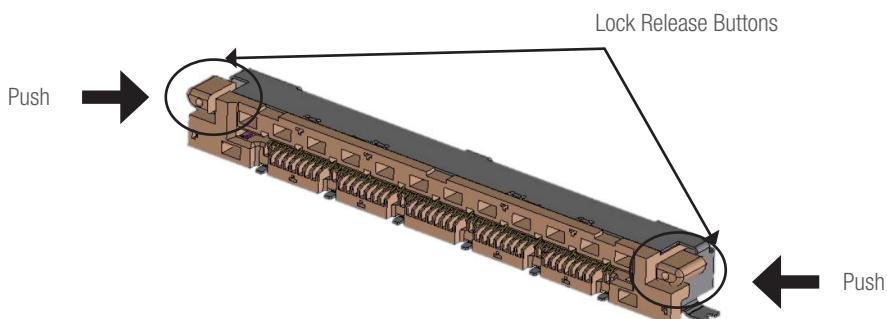
### Additional Product Features

#### "One-Touch" Cable Insertion



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

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