One-Touch LVDS FFC Connector, 0.50mm Pitch
Non-ZIF, With Side Locks

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

Features and Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
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<tbody>
<tr>
<td>One-touch cable insertion</td>
<td>Enables simplified cable assembly for operators</td>
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<tr>
<td>Side locking latches</td>
<td>Provide space savings and easy operation; avoid unexpected lock release due to external force from above, while providing no stress on PCB below</td>
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<td>Integral metal shield and grounding tabs</td>
<td>Achieve up to 5.4 Gbps data transmission rates to meet high-speed standards such as DisplayPort and V-by-One HS</td>
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<tr>
<td>High cable retention force</td>
<td>Superior contact reliability versus similar designs and actuator-type versions</td>
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<tr>
<td>Industry-standard footprint</td>
<td>Drop-in compatible with competitive designs</td>
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<tr>
<td>Rounded cable release side locks</td>
<td>Superior contact reliability versus similar designs and actuator-type versions</td>
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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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Non-ZIF, With Side Locks

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

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Circuit Size</th>
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<tbody>
<tr>
<td>503908-4100</td>
<td>41</td>
</tr>
<tr>
<td>503908-5100</td>
<td>51</td>
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</tbody>
</table>

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