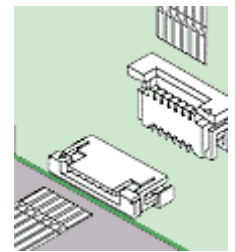


# Datasheet

## Flat Flex Cable Connectors [Overview](#)



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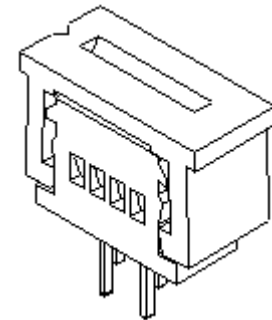
## 39-51-3124

1.25mm (.049") Pitch FFC/FPC Connector, Vertical, ZIF, 12 Circuits

View all parts in series  
[5597](#)

[2D Dimensions](#)

[E-mail this page](#)



|                                                |                          |
|------------------------------------------------|--------------------------|
| <a href="#">Status</a>                         | Active                   |
| <a href="#">Replacement Products</a>           | <a href="#">39532125</a> |
| <a href="#">Pitch / Center Spacing</a>         | 1.25mm (.049")           |
| <a href="#">Circuits / Positions</a>           | 12                       |
| <a href="#">Cable Thickness</a>                | 0.30mm (.012")           |
| <a href="#">Cable Termination</a>              | ZIF                      |
| <a href="#">Cable Entry Angle</a>              | Vertical                 |
| Cable Insert Force                             | 0+                       |
| Cable Withdrawl Force                          | 0+                       |
| Cable Specification                            | <a href="#">Type G</a>   |
| <a href="#">Cable Type</a>                     | FFC/FPC                  |
| <b>MOUNTING</b>                                |                          |
| <a href="#">PCB Mounting</a>                   | Through Hole             |
| <a href="#">Polarized to PCB</a>               | No                       |
| <a href="#">PCB Thickness</a>                  | 1.6mm (.062")            |
| <a href="#">Staggered Tails</a>                | Yes                      |
| <a href="#">PCB Locator</a>                    | No                       |
| <a href="#">Surface Mount Compatible (SMC)</a> | No                       |
| <b>ELECTRICAL</b>                              |                          |
| <a href="#">Current-max [amps]</a>             | 1.0A                     |
| <a href="#">Voltage-max [volts]</a>            | 200V                     |
| <a href="#">Withstanding Voltage</a>           | 500V AC/1 min.           |
| <a href="#">Contact Resistance [ohms]</a>      | 20 milliohms max.        |
| <a href="#">Insulation Resistance [ohms]</a>   | 500 Megohms min.         |
| <b>PHYSICAL</b>                                |                          |
| <a href="#">Housing Material</a>               | PBT Polyester            |
| <a href="#">Flammability</a>                   | UL 94V-0                 |
| Actuator                                       | PBTP, UL 94V-0           |
| <a href="#">Temperature Range</a>              | -20 °C to +80 °C         |
| <a href="#">Contact</a>                        | Phosphor Bronze (CuSn)   |
| <a href="#">Plating Contact</a>                | Tin/Lead (Sn/Pb)         |
| <a href="#">Under Plating</a>                  | Copper (Cu)              |
| Row-to-Row Dimension (PCB side)                | 2.00mm (.079")           |
| <b>REFERENCE</b>                               |                          |

This part has a  
**Lead-free / RoHS Replacement**  
part number

### ENVIRONMENT

[RoHS Compliant](#) No

[Replacement RoHS/Lead-free Capable Part Number](#) 39532125

### Features and Benefits

- Staggered solder tails, 3.50mm (.138") long
- For 0.30mm (.012") thick FFC/FPC

|                       |             |
|-----------------------|-------------|
| Product Specification | PS-5597-002 |
| Old Part Number       | 5597-12CPB  |
| Rows                  | 1           |
| Stackable             | No          |
| Packaging             | Tray        |
| UL File Number        | E29179      |
| MX01 Catalog Page     | G-36, V-5   |
| 990 Catalog Page      | F-32        |
| Molex Series          | 5597        |
| Marketing Series      | 5597        |

2D D R A W I N G - For reference only. See technical Drawing (PDF) for design-in purposes.

| DIMENSIONS       |                 |
|------------------|-----------------|
| PC Tail Length   | 3.50mm (.138")  |
| Mated Height (H) | 7.50mm (.295")  |
| Mated Width (W)  | 5.00mm (.197")  |
| Dimension A      | 20.75mm (.817") |
| Dimension B      | 13.75mm (.541") |
| Designed In      | Millimeters     |

