High Speed FPC Connector

COMPACT, LOW PROFILE, HIGH SPEED

High Speed FPC (Flexible Printed Circuit) is a connector with capability to transfer data rates up to 10Gb/s. It has a 0.30mm pitch, in-line layout and back flip actuator coupled with locking feature for strong FPC retention.

High speed FPC provides a low profile and compact solution whilst maintaining high speed signal integrity. It is ideal for applications where space is a constraint.

It also complies with USB 3.1/3.0, PCIe 3.0, SATA 3.0, Displayport and MIPI M-Phy standards.

TARGET MARKETS

FEATURES

- Supports speed performance up to 10Gb/s
- Compact design with 0.30mm pitch and in-line layout
- Back flip actuator with locking feature
- Stubless signal contact design
- No metal shield
- Simple efficient 90Ω design

BENEFITS

- Suitable for USB 3.1/3.0, PCIe 3.0, SATA 3.0, Displayport and MIPI M-Phy applications
- Space-saving, suitable for modular applications
- Robust FPC retention force
- Maintains high signal integrity
- No noise or antenna effect
- Supports both 85, 90 and 100Ω applications
High Speed FPC Connector

TECHNICAL INFORMATION

MATERIAL
- Housing & Actuator: High Temperature thermoplastic, UL 94V-0
- Ground Contact: Colson Alloy
- Signal Contact: Phosphor Bronze
- Fixing Tab: Phosphor Bronze

MECHANICAL PERFORMANCE
- Withdraw Force: 5N min.
- Durability: 20 mating cycles
- Vibration: EIA 364–28 Condition II
  - (No discontinuity at 1 usc or longer)
- Physical Shock: EIA 364–27 100Gs, (Condition C)
  - (No discontinuity at 1 usc or longer)

ELECTRICAL PERFORMANCE
- Contact Resistance: 80Ω max
- Insulation Resistance: 100MΩ min. 500VDC
- Dielectric Withstanding Voltage: 200VAC min. for 1 minute

ENVIRONMENTAL
- Low Temperature Life: EIA 364–59, Test Condition III, 168hours
- High Temperature Life: EIA 364–17, Method A, Test Condition III, 168hours
- Salt Spray: EIA 364–26, 48hours
- Humidity Cycling: EIA 364–31, Method II, 90–95%RH, 60°C, 168hours

APPROVALS AND CERTIFICATIONS
- UL 94V–0

PACKAGING
- Tape & Reel

TARGET MARKETS/APPLICATIONS
- Tablet
- Notebook/ PC
- Ultrabook
- High Definition Display

PART NUMBERS

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<tr>
<th>Description</th>
<th>Pitch</th>
<th>Height</th>
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