



High Speed FPC Product Presentation

Basics Portfolio



High Speed FPC

Agenda

- Value Proposition
- Product Overview
- Product Specifications
- Features & Benefits
- Main Markets & Applications
- Collaterals



High Speed FPC

Value Proposition



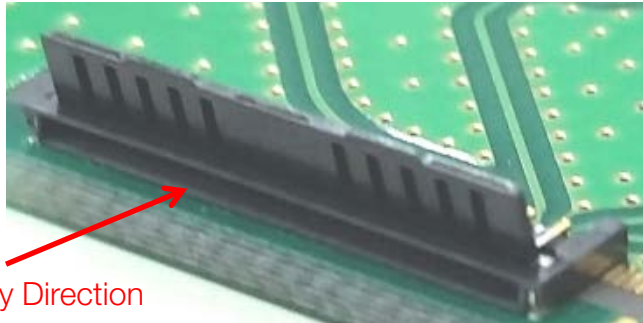
- The High speed FPC (Flexible Printed Circuit) is a **low profile and compact solution** with high speed signal integrity solution able to **transfer data rates up to 10Gbps**.
- The unique design **allow a strong FPC retention** with 0.3mm pitch thanks to the in-line layout and back flip actuator.
- It also complies with standards like USB 3.1/3.0, PCIe 2.0, SATA 3.0, Displayport and MIPI M-Phy.
- High speed FPC finds application in tablets, notebooks, high definition displays and devices with intermodular Board-To-Board connection demanding high data rate transmissions.
- FCI's high speed FPC connector provides a low profile and compact solution whilst maintaining high speed signal integrity. It is **very suitable** for applications where **space is a constraint**.

High Speed FPC

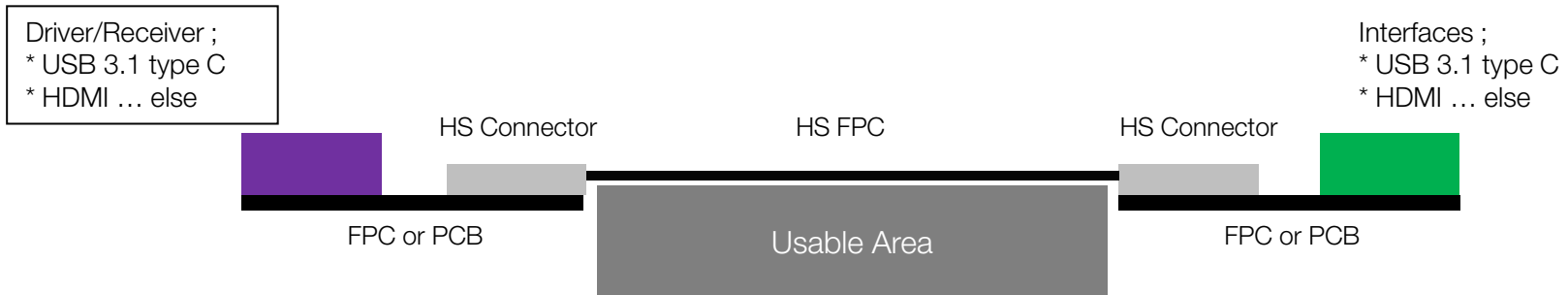
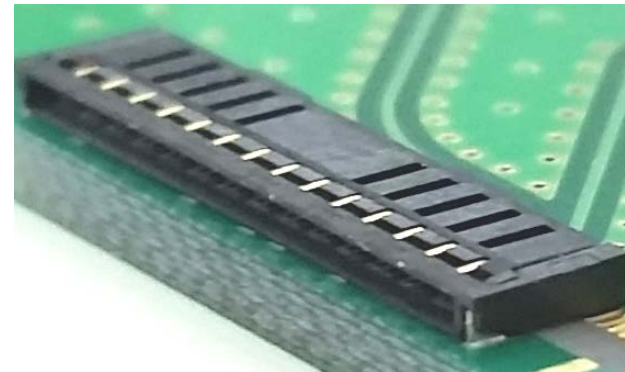
Solution Overview



The High Speed, cost effective and less complex solution for Printed Wire Board (PWB)



FPC Entry Direction



High Speed FPC

Product Specifications



Product Facts

- Pitch (mm) : 0.3 (In-Line)
- Connector height : 1.1mm
- Pin Count : 40, (and 61 planned)
- Pin layout : **GSSGSSG.....**
- Differential Pair : 13 pairs Max (40pin)
- CFPC Locking feature : Available
- Contact direction : Bottom side connecting

Specifications

- Current Rating : 0.3A (AC/DC)
- Voltage Rating : 30V (AC/DC)
- Operation temperature : -55 to +85degree
- FPC thickness (mm) : 0.2 +/- 0.03

Electrical Performance

- Supported Impedance: 85 to 100ohm application

High Speed FPC

Features & Benefits

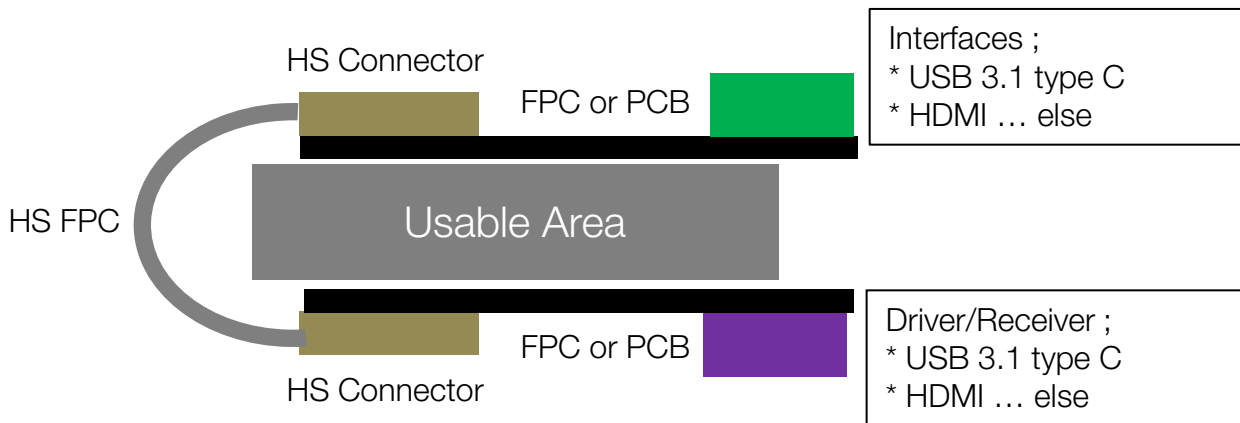
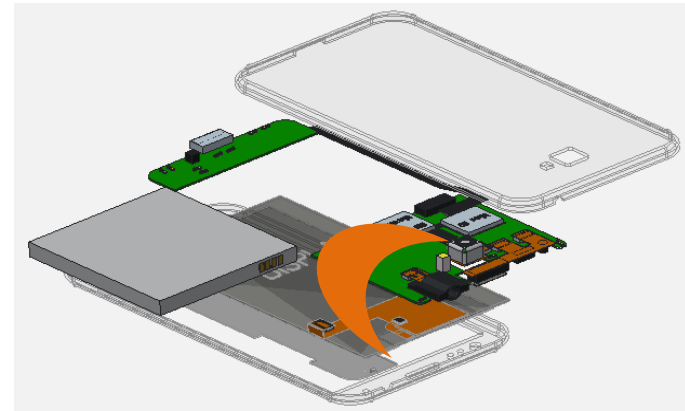


Features	Benefits
<ul style="list-style-type: none">▪ Capable of up to 10Gbps data rate transmission	<ul style="list-style-type: none">▪ Suitable for USB 3.1/3.0, PCIe 2.0, SATA 3.0, Displayport and MIPI M-Phy
<ul style="list-style-type: none">▪ Compact design with 0.3mm pitch and in-line layout	<ul style="list-style-type: none">▪ Space saving, suitable for modular applications
<ul style="list-style-type: none">▪ Back flip actuator with locking feature	<ul style="list-style-type: none">▪ Robust FPC retention force
<ul style="list-style-type: none">▪ Stubless signal contact design	<ul style="list-style-type: none">▪ Maintains high signal integrity
<ul style="list-style-type: none">▪ No metal shield	<ul style="list-style-type: none">▪ No noise or antenna effect

High Speed FPC

Main Markets & Applications

- Tablet
- Note PC
- Professional DVC
- High Definition FPD



High Speed FPC

Marketing Collaterals



Available on fci.com:

- Technical Data Sheet
- Part Number & Drawings

FLEX CONNECTORS

FCI

HIGH SPEED FPC

OVERVIEW

High speed FPC (Flexible Printed Circuit) is a connector with capability to transfer data rates up to 10Gbps. It has a 0.3mm pitch, in-line layout and back flip actuator coupled with locking feature for strong FPC retention.

FCI's high speed FPC connector provides a low profile and compact solution whilst maintaining high speed signal integrity. It is very suitable for applications where space is a constraint.

It can be used with standard like USB 3.1/2.0, PCIe 2.0, SATA 3.0, Displayport and MIPI M-PHY.

High speed FPC finds application in tablets, notebooks, high definition displays and devices with in-memorial, board-to-board connection demanding high data rate transmission.



FEATURES	BENEFITS
• Capable of up to 10Gbps data rate transmission	• Suitable for USB 3.1/2.0, PCIe 2.0, SATA 3.0, Displayport and MIPI M-PHY
• Compact design with 0.3mm pitch and in-line layout	• Space saving, suitable for modular applications
• Back flip actuator with locking feature	• Robust FPC retention force
• Staggered signal contact design	• Maintains high signal integrity
• Non-weld shield	• No noise or antennae effect



THANK YOU

