

INTRODUCTION

Molex's new FFC-to-Board connector system provides secure FFC contact reliability and high-speed transmission capabilities for applications such as LCD TVs and multi-function printers and copiers

This two-piece connector system was originally designed for LCD TV applications as a cost-effective replacement for high circuit-size wire-to-board connector systems. One weakness of FFC cable in large circuit-size applications is that it can buckle or bend. Another concern is that operators may not always insert the cable fully into the connector.

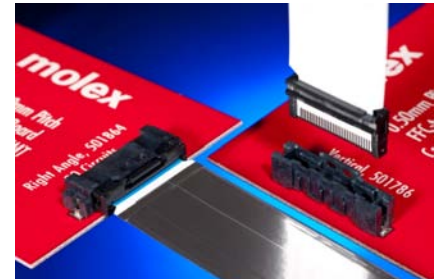
Molex addressed this issue with a two-piece FFC-to-board system that has a robust positive lock with a tactile insertion feature to ensure secure contact reliability. A cable jacket and cover prevent looseness or slippage of the FFC for additional mating assurance.

Specifications:

- Current: 0.3A
- Voltage: 50V
- Signal Terminal Plating: Gold
- Ground Terminal Plating: Tin
- Contact Resistance: 40 milliohms max.
- Insulation Resistance: 50 Megohms min.
- Dielectric Strength: 250V AC
- Operating Temperature: -40 to +85°C
- Flammability: UL 94V-0
- Durability: 20 cycles



FFC-to-Board Connector System, 0.50mm (.020") Pitch, with Positive Lock and Grounding Terminals for High Speed LVDS Applications



Features

- Two-piece FFC-to-Board design

- Positive lock

- Jacket and cover housing design

- Optional grounding-terminal PCB connector versions

- Kapton tape and wide vacuum area on PCB connectors

- Beveled housing design in mating area

Benefits

- Cost savings for large circuit size applications versus wire-to-board

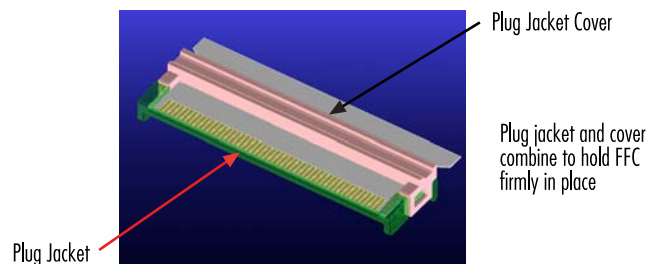
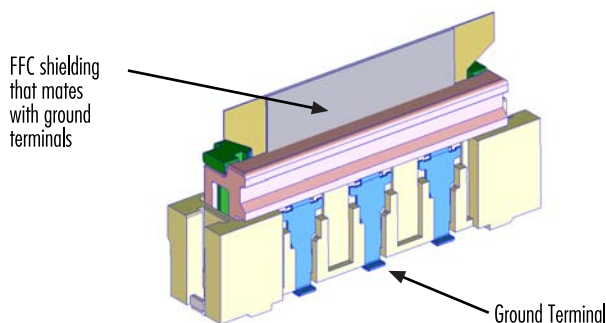
- Secure contact reliability and mating assurance

- Prevents looseness of FFC cable for secure connection

- Accommodate high speed, high frequency signaling such as LVDS

- For easy vacuum pick-and-place

- Helps provide lower insertion force for easier mating



MARKETS AND APPLICATIONS

- Copiers
- Printers
- LCD TVs
- Plasma Display Panels
- Any application requiring secure FFC locking, or high speed signaling requirements



ORDERING INFORMATION



FFC-to-Board Connector System, 0.50mm (.020") Pitch, with Positive Lock and Grounding Terminals for High Speed LVDS Applications

Plug Jacket

Order Number	Circuits	Grounding Type
501783-3009	30	N/A

Plug Jacket Cover

Order Number	Circuits	Grounding Type
501784-3008	30	Yes
501784-3009		No

PCB Receptacles

Order Number	Circuits	Type	Grounding Type
501786-3091	30	Vertical	Yes
501786-3092		Vertical	No
501864-3091		Right Angle	Yes
501864-3092		Right Angle	No

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