

Easy-On FFC/FPC Connectors FD4P Series >

High-density 0.40mm pitch FD4P series Easy-On FFC/FPC connectors offer a low-profile height of 2.00mm that can cover up to 120 circuits, providing high contact reliability and a high-retention force, making them a versatile, space-saving solution for harsh environments.



Easy-On FFC/FPC Connector, FD4P Series

FEATURES AND ADVANTAGES

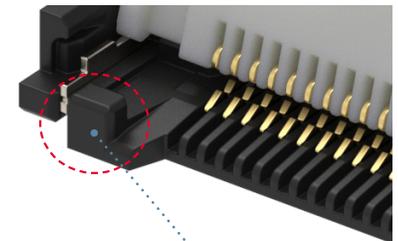
High-density Pin Count

Integrates the desired functions with a nearly 17% smaller PWB area compared to competitors; this translates to significant space savings

Current	0.50A
Number of Circuits	80 to 120
Pitch	0.40mm
Height	2.00mm
Operating Temperature	-40 to +105°C



Double-beam contact



Housing Ribs

Space Savings

Provides a low height of 2.00mm that reduces the height of PCB mounting, which is lower than that of competitors

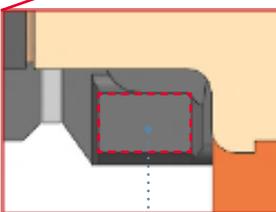
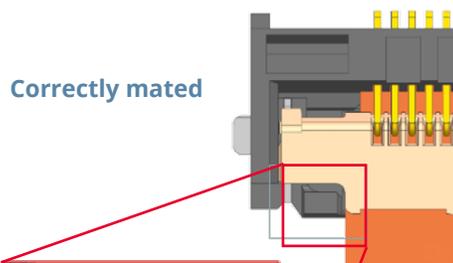


Independent Double-beam Contact

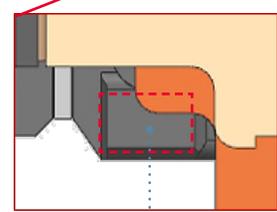
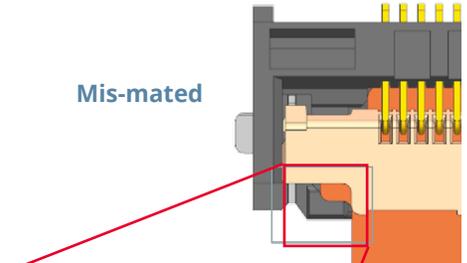
(Long and Short Terminal Contact) Provides high contact reliability in harsh environments, such as when there are shocks and vibrations, as the terminal provides independent double-beam contact

Mating Indication Feature That Gives Operators Visibility

Ensures the correct mating position of an FFC/FPC cable; if the cable is misaligned, the ear of the cable can be seen in the visual detection area



Visual detection area

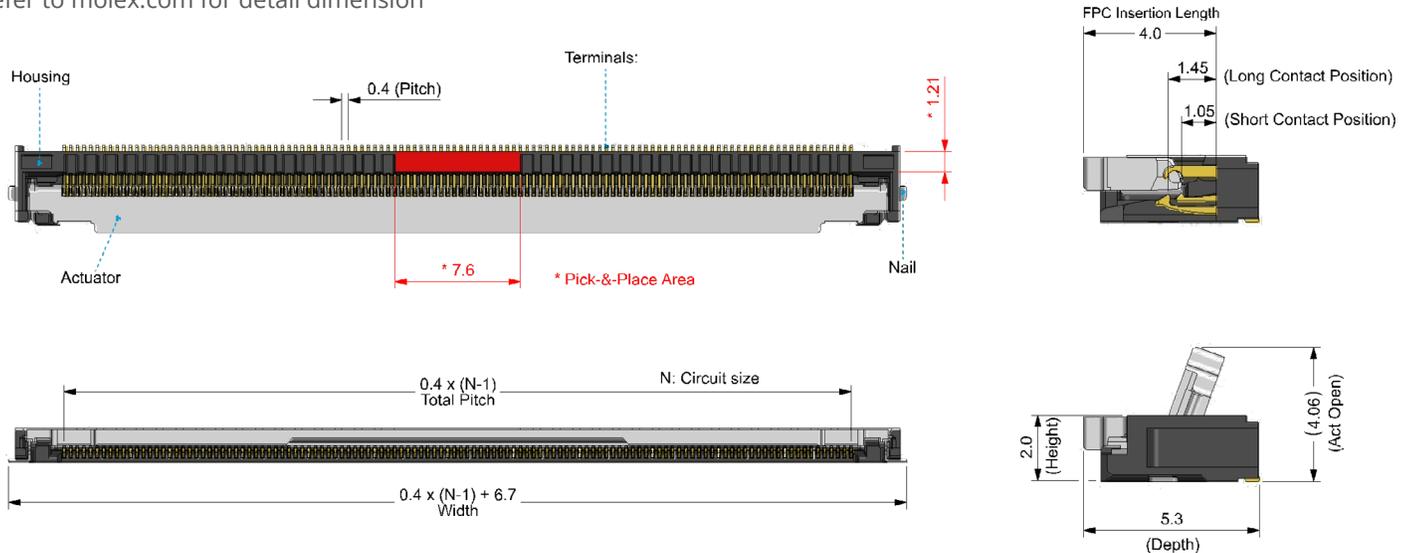


"FPC ear" lands on Visual detection area

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DIMENSIONS

Refer to molex.com for detail dimension



APPLICATIONS

Connected Mobility Solutions

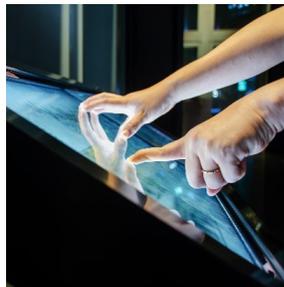
Car displays
Instrument panels
Car infotainment systems

Home Appliance

Flat-panel displays
Smart-home devices

IT Infrastructure Solutions

Conference room displays
Touch panel displays



Display Panel



Smart Home



Automotive

SPECIFICATIONS

Reference Information

Packaging: Emboss tape
Designed in: Millimeters
Use with: FFC/FPC cables
RoHs: Yes
Low Halogen: Yes

Electrical

Voltage (max.): 50V
Current (max.): 0.50A
Contact Resistance (max.): 40 milliohms
Dielectric Withstanding Voltage: 150V
Insulation Resistance (min.): 50 Megohms

Mechanical

Durability (max.): 20 cycles

Physical

Housing: LCP
Contact: Copper Alloy
Plating: Gold on signal terminal, Tin on nail
Contact Area: Limited to contact
Underplating: Nickel
FFC/FPC thickness: 0.30 ± 0.05 mm
Operating Temperatures: -40 to +105°C

www.molex.com/link/fd4p.html