

Easy-On FFC/FPC Connectors, FlatLock Series

Space savings and design flexibility are essential considerations for connectors and cables in small devices. The Easy-On FFC/FPC Connectors, FlatLock Series (0.50mm pitch) offer a low profile and compact design with innovative features that deliver an efficient and reliable performance, including dual contact connection, pre-locking capability and a high mating cycle rating.

ADVANTAGES AND FEATURES

Includes backflip actuator with dual contact connection and pre-lock feature

Located on the anti-slip side, the actuator with its wide depth can connect top and bottom surfaces to offer dual-contact capability. The pre-lock feature helps prevent FFC/FPC cable from accidentally slipping out during assembly.

Endures up to 15 cycles of mating and unmating while maintaining reliability

This is essential for complex assembly procedures that require multiple mating/un-mating instances, ensuring that the connector performs consistently and efficiently throughout its life cycle.

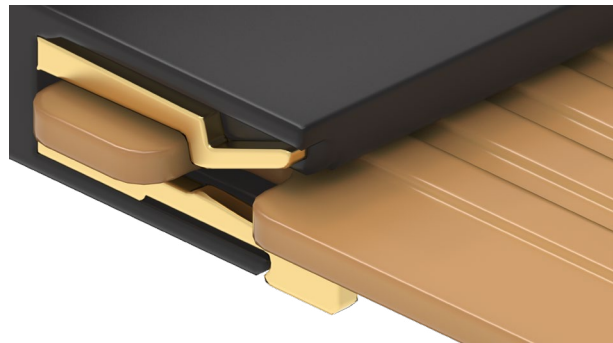
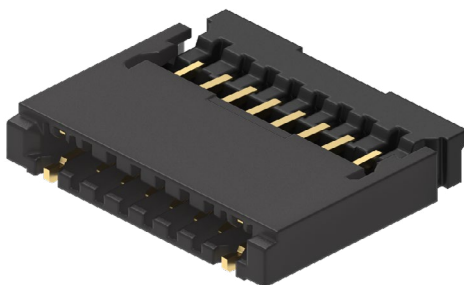
Current (max.)	0.5A
Voltage (max.)	50V
Height	0.90mm
Durability (max.)	15 cycles
FFC/FPC Thickness	0.20 ± 0.03mm
Operating Temperatures	-40 to +105°C

Offers a low-profile height of 0.90mm and dual contact connection

This enables the connector to fit into extremely compact spaces, making it ideal for modern electronic devices and applications with stringent space requirements.

Supports 0.50mm pitch configuration

This series of connectors utilize the general/common 0.50mm pitch in-line pad, which is essential for connectors and cables in small devices.



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MARKETS AND APPLICATIONS

Mobile devices

Laptops
Smartphones and tablets
IoT and smart-home devices
Gaming consoles and controllers
AR/VR devices
Drones

Wearables

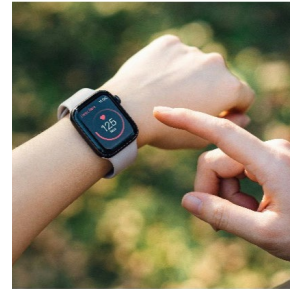
Smartwatches
Healthcare devices
Earbuds

Appliances

Vacuum cleaners
Refrigerators
Washing machines
Dryers
Ovens



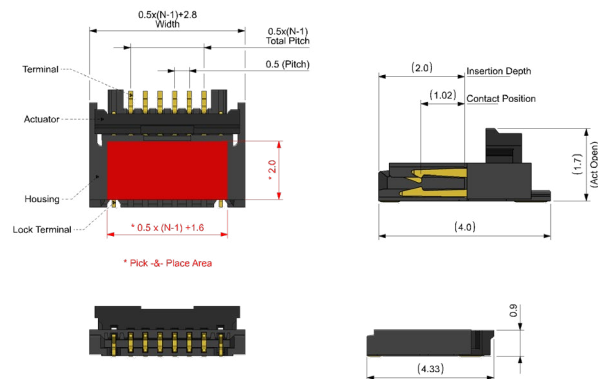
Laptops



Smartwatches



Vacuum Cleaners



SPECIFICATIONS

Reference Information

Packaging: Emboss tape
Designed in: Millimeters
Use with: FFC/FPC cables
RoHS: Yes
PFAS-Free: Yes
Low halogen: Yes

Electrical

Voltage (max.): 50V
Current (max.): 0.5A
Contact resistance (max): 100 mΩ
Dielectric withstanding voltage: 250V
Insulation resistance: 100 Megohms

Mechanical

Durability (max.): 15 cycles

Physical

Housing: LCP
Contact: Copper alloy
Plating: Gold
Contact Area: Gold
Underplating: Nickel
FFC/FPC thickness: $0.20 \pm 0.03\text{mm}$
Operating temperatures: -40 to $+105^{\circ}\text{C}$

ORDERING INFORMATION

Series No	Pitch (mm)	Orientation	Contact Position	Circuits	Temperature	Plating
221378	0.50mm	Right Angle	Bottom	6	-40 to +105°C	Gold

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