

0.21mm Super Low Profile FPC connector – F01C Series

COMPACT, LOW PROFILE, AUTOLOCK CONNECTORS

F01C series is a 0.21mm pitch right angle Non-ZIF FPC connector with an autolock mechanism and surface mount termination. It has a high density design and low height 0.5mm. It features a cable thickness of 0.18mm and provide high retention force with locking arm. It provides a good solution for wearable facilities.

- Allows one action operation and ease assembly
- High retention force with locking arm
- Low profile and high density design



TARGET MARKETS



FEATURES

- High density design with 0.21mm pitch FPC solution
- Super low profile design with 0.5mm height
- Easy operation: Non-ZIF with autolocking
- High cable retention feature with Locking Arm
- Prevent soldering and flux wicking (Adoption of Ni barrier)

BENEFITS

- Specialized for the super low profile
- Saves PCB space design
- The basic design can be expanded to different pitch products
- High flammability rating
- Meets environment, health and safety requirements

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TECHNICAL INFORMATION

MATERIAL

- Housing: LCP, Black, UL94V-0
- Signal Terminal A: Copper Alloy with Ni under plate and Gold plating
- Signal Terminal B: Copper Alloy with Ni under plate and Gold plating
- Lock terminal: Copper Alloy with Ni under plate and Gold plating
- Fixing Tab: Copper Alloy with Ni under plate and Sn plating

MECHANICAL PERFORMANCE

- Durability: 10 mating cycles
- Mating Force: 5.5N max. (pin count=20)
- Unmating Force: 3.0 N min. (pin count=20)
- Vibration: EIA 364-28 Condition II
 - (No discontinuity at 1μ sec or longer)

ELECTRICAL PERFORMANCE

- Insulation Resistance: 100MΩ min.
- Contact Resistance: 50mΩ max. (initial)
- Voltage Rating: 50VAC/VDC
- Current Rating: 0.3A

APPROVALS AND CERTIFICATIONS

- UL 94V-0 / RoHS compliant / REACH

ENVIRONMENTAL

- Operating Temperature Range: -25°C to +85°C
- Low Temperature Life: EIA 364-59, Test Condition III, 168hours
- High Temperature Life: EIA 364-17, Method A, Test Condition III, 168hours
- Thermal Shock: EIA 364-32, Method A, Test Condition I, 50 cycles
- Salt Spray: EIA 364-26, 48hours
- Humidity Cycling: EIA 364-31, Method II, 90- 95%RH, 60°C, 168hours

SPECIFICATION

- Aurora Product Specification: IS.EQC.204

PACKAGING

- Tape & Reel

TARGET MARKETS/APPLICATIONS



Wearable Facilities
Smart Watch
Smart Glasses

PART NUMBER SELECTOR

