

0.40mm Pitch FFC/FPC – F21L Series

RIGHT ANGLE ZIF FLEX CONNECTOR

F21L series is a 0.40mm pitch right angle ZIF flex connector with a front flip lock, surface mount termination, dual beam and double contact points. It features 2.60mm height and comes in 4 to 120 contacts. This series features a cable thickness of 0.30mm and provides enhanced durability of 30 mating cycles. The connectors come with a robust design and prevent solder and flux wicking. These are ideal for automotive, data, industrial, and medical applications.

- Easy to operate
- Strong FFC/FPC retention force makes it vibration-proof
- Dual beam and double contact points provide enhanced contact stability
- Ensures high solderability and high durability



TARGET MARKETS



FEATURES

- ZIF (Zero Insertion Force) mechanism
- Front flip locking function
- Dual beam and Double contact points
- Design against solder and flux wicking
- 4 to 120 positions available
- Lead and halogen-free

BENEFITS

- Absence of frictional mating wear resulting in high mating cycle life
- Easy to operate and strong FFC/FPC retention makes it vibration-proof
- Ensures enhanced contact stability
- Ensures high solderability
- Comprehensive range to satisfy different customer requirements
- Meets environmental, health, and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: LCP, Black color (UL94V-0)
- Actuator: PA9T, Black color (UL94V-0)
- Contact: Phosphor Bronze, T=0.15mm, 1~3µm Ni under plating
- Fixed plate: Brass, T=0.20mm, 1~3µm Ni under plating, 2~4µm tin plating

MECHANICAL PERFORMANCE

- FFC/FPC Retention Force: 0.196N/Pin min.
- Terminal Retention Force: 0.2N or more
- Fixed Plate Retention Force: 100gf/plate min.
- Durability: 30 mating cycles

ELECTRICAL PERFORMANCE

- Voltage Rating: 50VAC/VDC
- Current Rating: 0.4A
- Contact Resistance: 40mΩ max.
- Insulation Resistance: 100MΩ min.
- Dielectric Withstanding Voltage: No short or breakdown after 250VAC, 2mA, 1min.

PACKAGING

- Tape & Reel

APPROVALS AND CERTIFICATIONS

- UL file number E106764
- RoHS compliant

SPECIFICATION

- Aorora Product Specification: IS.EQC.197

ENVIRONMENTAL

- Operating Temperature Range: -40°C to +105°C

TARGET MARKETS/APPLICATIONS



Car Multimedia
Car Navigation
Dashboard
PND



Base Station
Power
Switches



Notebook
Tablets
Wearables
Gaming
DSC
LCD & PDP TV



Router
Server
ODD
HDD



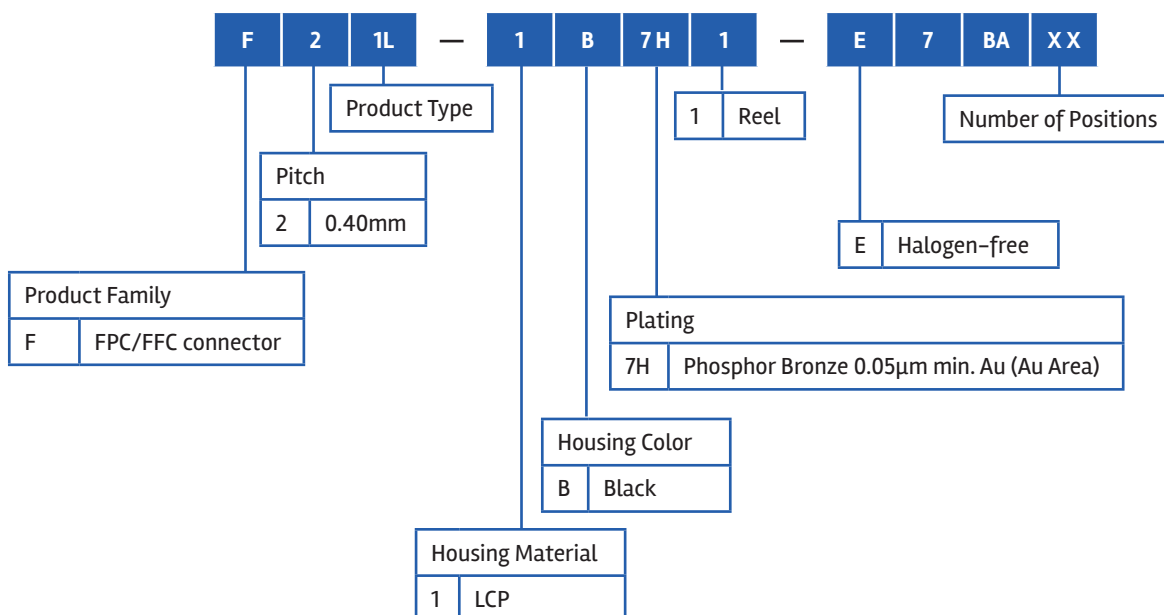
Sensing element
Monitoring camera
Human Machine Interface
Industrial PC
Robotics



Ultrasonic
Patient Monitor
MRI
CT
Infusion Pump

PART NUMBER SELECTOR

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