

0.50mm Pitch FFC/FPC - F31S Series

VERTICAL ZIF FLEX CONNECTOR

F31S series is a 0.50mm pitch vertical ZIF flex connector with a vertical flip locking mechanism, surface mount termination, and dual contacts. It features a height of 5.80mm and comes in 10 to 70 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, communication, consumer and medical applications.

- Strong FFC/FPC retention makes it vibration-proof
- Dual contact points ensure enhanced contact stability
- Ensures high solderability and high durability
- Wide operating temperature range of -40°C to +105°C



FEATURES

- ZIF (Zero Insertion Force) mechanism
- Vertical flip locking mechanism
- Dual contact points
- Design against solder and flux wicking
- High-temperature thermoplastic housing
- 10 to 70 positions available
- Lead and halogen-free

BENEFITS

- Absence of frictional mating wear results in high mating cycle life
- Easy to operate and strong FFC/FPC retention makes it vibration-proof
- Ensures enhanced contact stability
- Ensures high solderability
- Wide operating temperature range of -40°C to +105°C
- Comprehensive range to satisfy different customer requirements
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

■ Housing: LCP, natural color (UL94V-0)

Actuator: PA9T, black color (UL94V-0)

• Contact: Phosphor bronze, T=0.15mm

Anchor-plate: Brass, T=0.40mm

• Mylar: T=0.10mm, thermostable, brown color

MECHANICAL PERFORMANCE

• FFC/FPC Retention Force: 20gf/pin

Terminal Retention Force: 100gf/terminal min

Anchor-plate Retention Force: 500gf/plate min.

• Durability: 30 mating cycles

ELECTRICAL PERFORMANCE

Voltage Rating: 50V AC/DC

Current Rating: 0.5A

■ Contact Resistance: 30MΩ max.

• Insulation Resistance: 500M Ω min.

 Dielectric Withstanding Voltage: No short or breakdown after 500V AC, 2mA, 1min.

PACKAGING

■ Tape & Reel

APPROVALS AND CERTIFICATIONS

• UL file number E106764

• RoHS compliant

SPECIFICATION

Aorora Product Specification: IS.EQC.034

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

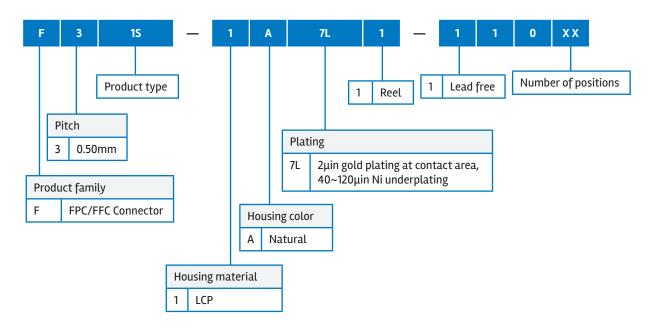


Sensing element Monitoring camera Human Machine Interface Industrial PC Robotics



Ultrasonic Patient Monitor MRI CT Infusion Pump

PART NUMBER SELECTOR



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