Amphenol ICC

0.50mm Pitch FFC/FPC – F31E Series

RIGHT ANGLE ZIF FLEX CONNECTOR

Amphenol

F31E series is a 0.50mm pitch right angle ZIF flex connector with front flip mechanism, double contact and surface mount termination. This connector features a height of 1.25mm and comes in 15 to 30 contacts. This connector comes with a robust design and prevent solder and flux wicking. These are ideal for automotive, data, industrial, communication, consumer and medical applications.

- Easy to operate and strong FFC/FPC retention makes it vibration-proof
- Dual contact points, provide enhanced contact stability
- Ensures high solderability and high durability

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FEATURES

- ZIF (Zero Insertion Force) mechanism
- Front flip feature
- Double contact points
- Design against solder and flux wicking
- High temperature thermoplastic housing
- 15 to 30 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=0.20mm
- Anchor-plate: Brass, T=0.15mm

MECHANICAL PERFORMANCE

- FFC/FPC Retention Force: 20gf/pin
- Terminal Retention Force: 50gf/terminal min.
- Anchor-plate Retention Force: 50gf/plate min.
- Durability: 30 mating cycles

ELECTRICAL PERFORMANCE

- Voltage Rating: 50V AC/DC
- Current Rating: 0.5A
- Contact Resistance: $30M\Omega$ 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.042

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

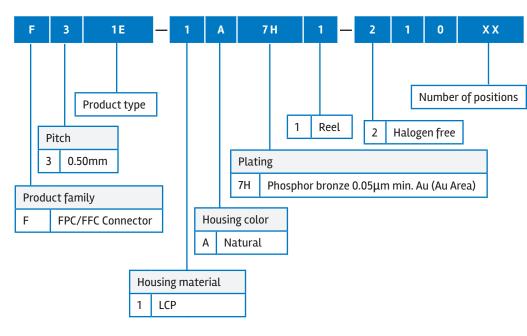


Sensing element Monitoring camera Human Machine Interface Industrial PC Robotics



Ultrasonic Patient Monitor MRI CT Infusion Pump

PART NUMBER SELECTOR



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www.amphenol-icc.com

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