Amphenol

Amphenol ICC

0.50mm Pitch FFC/FPC – F31L Series

RIGHT ANGLE ZIF FLEX CONNECTOR

F31L series is a right angle ZIF flex connector with front flip lock, surface mount termination and double contact points. It features 2.55mm height and comes in 4 to 80 contacts. This series features a cable thickness of 0.30mm and provide enhanced durability of 30 mating cycles. The connectors come with a robust design and prevents 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
- Enhanced contact stability
- Ensures high solderability and high durability



FEATURES

- ZIF (Zero Insertion Force) mechanism
- Front flip locking function
- Double contact point
- Design against solder and flux wicking
- 4 to 80 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
- 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,1~3um Ni under plating
- Anchor-plate: Brass, T=0.20mm, 1~3um Ni under plating, 2~4um tin plating
- Mylar: T=0.10mm, thermostable, yellow color

MECHANICAL PERFORMANCE

- FFC/FPC Retention Force: 20gf/pin
- Terminal Retention Force: 100gf/terminal min.
- Fixed plate Retention Force: 100gf/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.039

ENVIRONMENTAL

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

TARGET MARKETS/APPLICATIONS

Car Multimedia Car Navigation Dashboard PND

Base Station

Gaming

LCD & PDP TV

DSC

	Router		
101010101010 001000100010 001100110011	Server		
	ODD		
	HDD		



Sensing element Monitoring camera Human Machine Interface Industrial PC Robotics



Ultrasonic Patient Monitor MRI CT Infusion Pump



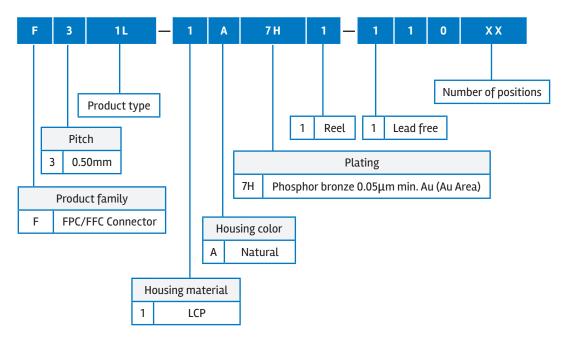
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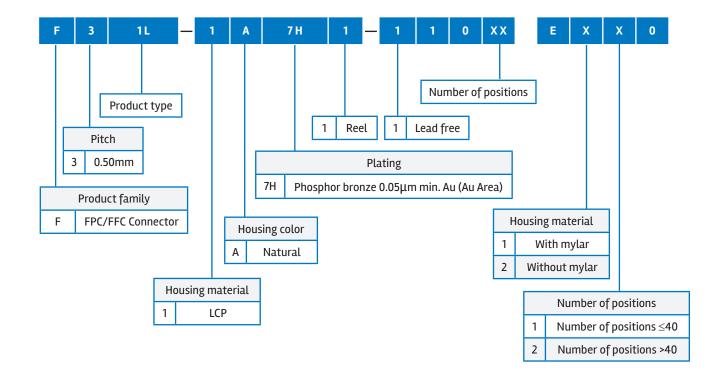
Disclaimer

Please note that the above information is subject to change without notice.

Power Switches
Notebook Tablets Wearables

PART NUMBER SELECTOR





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Mouser Electronics

Authorized Distributor

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Amphenol:

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FCI / Amphenol:

F31L1A7H111068E120 F31L-1A7H1-11050-E120