

# 0.50mm pitch FFC/FPC – F308 Series

## RIGHT ANGLE NON-ZIF FLEX AUTOLOCK CONNECTORS

F308 series is a 0.50mm pitch right angle Non-ZIF flex connector with an auto lock mechanism and surface mount termination. It features a height of 2.45mm and comes in 6 to 68 contacts. This series features a cable thickness of 0.33mm and provide durability of 20 mating cycles. Its robust connector design makes it suitable for robotic operations, supporting Industry 4.0. These are also ideal for automotive, data, industrial, communication, consumer and medical applications.

- Allows one-handed operation and ease of assembly
- Strong FFC/FPC retention makes it vibration-proof
- GND terminals to prevent noise
- Ensures high durability



### TARGET MARKETS



### FEATURES

- Non-ZIF (Zero Insertion Force) mechanism requires some force for insertion
- Autolock mechanism
- Provision for GND terminal
- High temperature thermoplastic housing
- 6 to 68 positions available
- Lead and halogen-free

### BENEFITS

- Strong FFC/FPC retention makes it vibration-proof
- Allows one-handed operation and ease of assembly
- Prevents noise
- Wide operating temperature range of -55°C to +105°C
- Comprehensive range to satisfy different customer requirements
- Meets environmental, health and safety requirements

## TECHNICAL INFORMATION

### MATERIAL

- Housing: LCP, black color (UL94V-0)
- Actuator: PPS, black color (UL94V-0)
- Contact : Copper alloy, T=0.15mm
- GND Terminal: Copper alloy, T=0.20mm
- Lock Terminal: T=0.12mm, thermostable

### MECHANICAL PERFORMANCE

- FFC/FPC Retention Force: 25gf/terminal min.
- Insertion force: 0.5N x n + 4N max.
- Un-mating force: 0.1N x n min.
- Durability: 20 mating cycles

### ELECTRICAL PERFORMANCE

- Voltage Rating: 50V AC/DC
- Current Rating: 0.5A
- Contact Resistance: (Initial) 60MΩ max., (final) 40MΩ max.
- Insulation Resistance: 100MΩ 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.155

### ENVIRONMENTAL

- Operating Temperature Range: -55°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



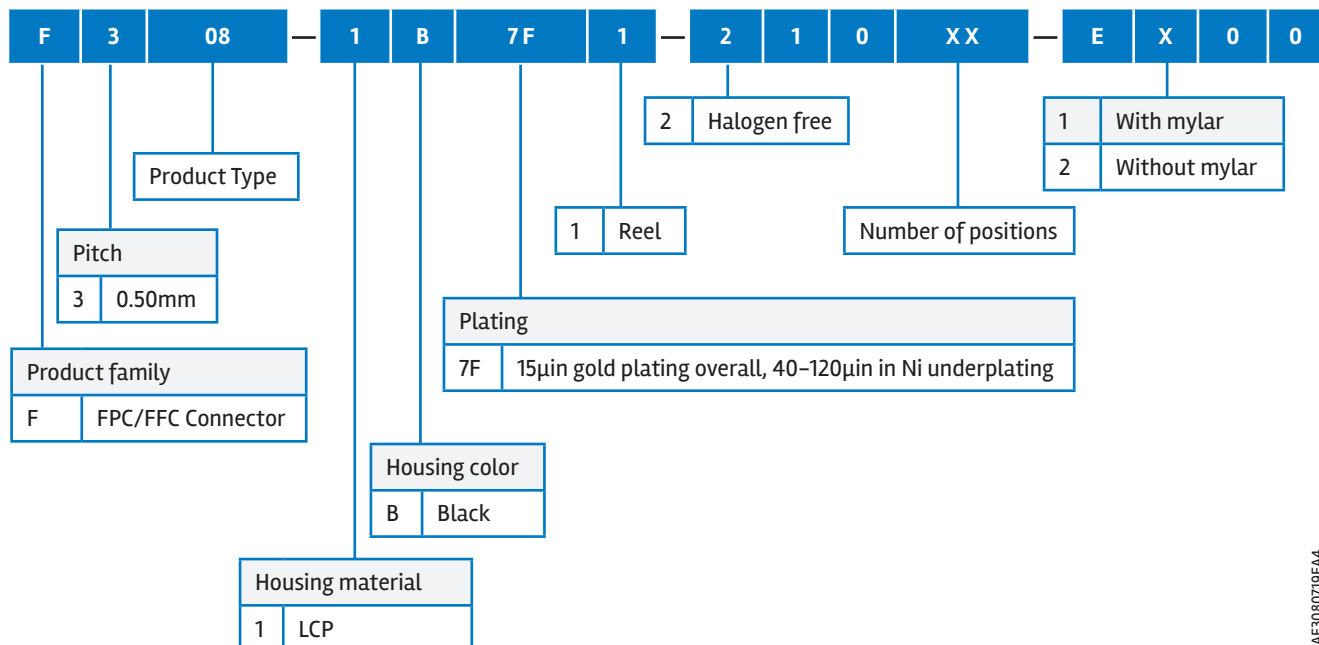
Router  
Server  
ODD  
HDD



Sensing element  
Monitoring camera  
Human Machine Interface  
Industrial PC  
Robotics

Ultrasonic  
Patient Monitor  
MRI  
CT  
Infusion Pump

## PART NUMBER SELECTOR



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