

0.50mm Pitch FFC/FPC – F304 Series

RIGHT ANGLE ZIF FLEX CONNECTOR

F304 series is a 0.50mm pitch right angle ZIF flex connector with a front flip locking mechanism, dual beam and double contact points. It features surface mount termination with a height of 2.50mm and comes in 10 to 60 contacts. This series features a cable thickness of 0.30mm and provides durability of 20 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.

- Easy to operate and strong FFC/FPC retention 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
- High-temperature thermoplastic housing
- 10 to 60 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 $+105^{\circ}\text{C}$
- 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=0.15mm
- Mylar: T=0.10mm, thermostable, yellow color

MECHANICAL PERFORMANCE

- FFC/FPC Retention Force: 40gf/pin
- Terminal Retention Force: 100gf/terminal min.
- Anchor-plate Retention Force: 100gf/plate min.
- Durability: 20 mating cycles

ELECTRICAL PERFORMANCE

- Voltage Rating: 50V AC/DC
- Current Rating: 0.5A
- Contact Resistance: Initial : 40MΩ max., after each test: 80MΩ 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.125

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

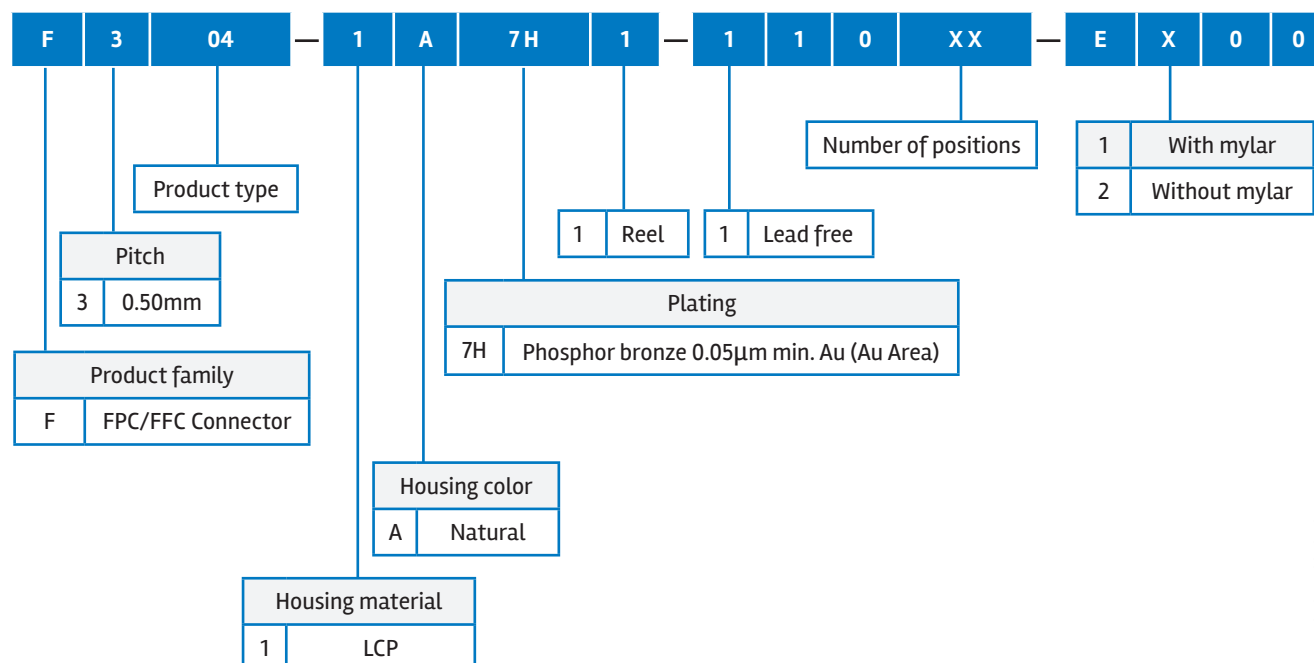


Sensing element
Monitoring camera
Human Machine Interface
Industrial PC
Robotics



Ultrasonic
Patient Monitor
MRI
CT
Infusion Pump

PART NUMBER SELECTOR



AORORAF304079EA4

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Amphenol:](#)

[F304-1A7H1-11010-E100](#) [F304-1A7H1-11012-E100](#) [F304-1A7H1-11040-E100](#) [F304-1A7H1-11050-E100](#)
[F3041A7H111010E200](#) [F3041A7H111012E200](#) [F3041A7H111050E200](#)