

# 1.00mm Pitch FFC/FPC – F52L/F52M Series

## VERTICAL NON ZIF FLEX CONNECTORS

F52L/F52M series are 1.00mm pitch vertical Non-ZIF flex connectors with surface mount termination and no locking mechanism. F52L and F52M are vertical A-Type and B-Type respectively. These connectors feature a height of 5.04mm and comes in 4 to 30 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.

- Single action low-force FFC/FPC insertion and removal
- Ensures high solderability and durability
- Wide operating temperature range of  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$



### FEATURES

- Non-ZIF (Zero Insertion Force) mechanism requires some force for insertion
- No locking mechanism
- Design against solder and flux wicking
- High-temperature thermoplastic housing
- 4 to 30 positions available
- Lead and halogen-free

### BENEFITS

- Single action low-force FFC/FPC insertion and removal
- Ensures high solderability
- Wide operating temperature range of  $-40^{\circ}\text{C}$  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)
- Contact: Phosphor bronze, T=0.20mm
- Mylar: T=0.10mm, thermostable, yellow color

### MECHANICAL PERFORMANCE

- FFC/FPC Retention Force: 40gf/pin min.
- FFC/FPC Insertion Force: 3,000gf max.
- Terminal Retention Force: 200gf/terminal min.
- Durability: 30 mating cycles

### ELECTRICAL PERFORMANCE

- Voltage Rating: 50V AC/DC
- Current Rating: 0.5A
- Contact Resistance: 30MΩ max.
- Insulation Resistance: 500MΩ min.
- Dielectric Withstanding Voltage: No short or breakdown after 500V AC, 2mA, 1min.

### PACKAGING

- Tape & Reel

### APPROVALS AND CERTIFICATIONS

- UL file number E41797
- RoHS compliant

### SPECIFICATION

- Aorora Product Specification: IS.EQC.050

### 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

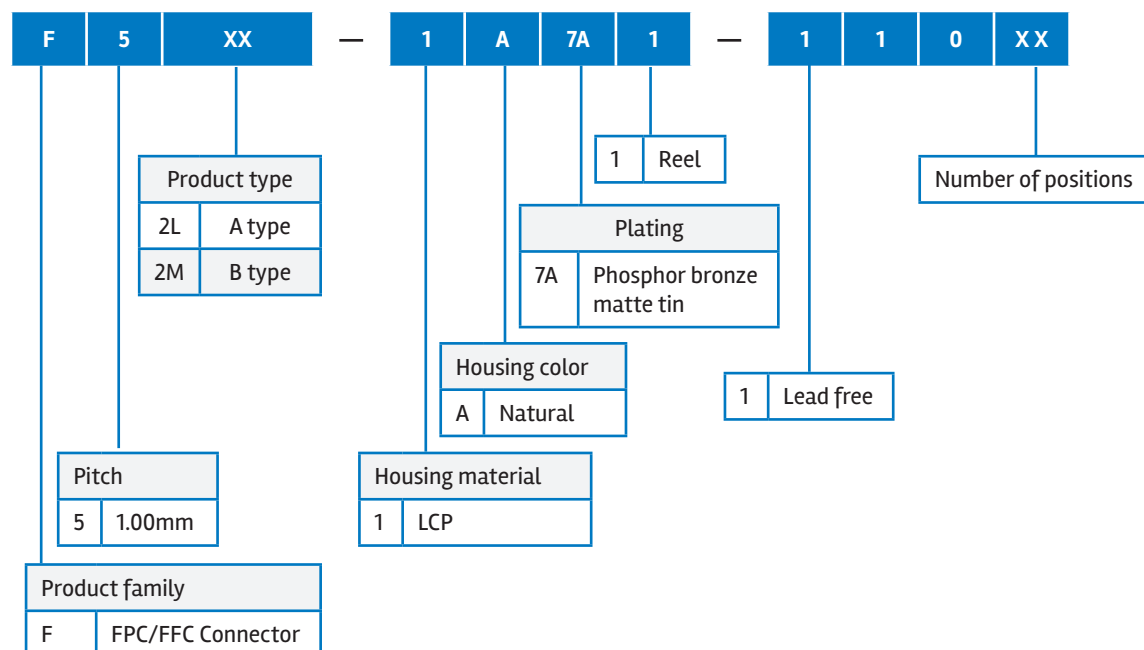


Sensing element  
Monitoring camera  
Human Machine Interface  
Industrial PC  
Robotics



Ultrasonic  
Patient Monitor  
MRI  
CT  
Infusion Pump

## PART NUMBER SELECTOR



AOR0RAF52L52M079EA4

# Mouser Electronics

Authorized Distributor

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

## Amphenol:

[F52L-1A7A1-11009](#) [F52L-1A7A1-11010](#) [F52L-1A7A1-11013](#) [F52L-1A7A1-11016](#) [F52L-1A7A1-11018](#) [F52L-1A7A1-11020](#) [F52L-1A7A1-11022](#) [F52L-1A7A1-11004](#) [F52L-1A7A1-11005](#) [F52L-1A7A1-11008](#) [F52L1A7A111020B100](#) [F52L1A7A111020B200](#) [F52L-1A7A1-11030](#) [F52L1A7A111004B200](#) [F52L1A7A111005B200](#) [F52L1A7A111014B200](#) [F52L1A7A111030B100](#) [F52L1A7A111010B100](#) [F52L1A7A111010B200](#) [F52L1A7A111030B200](#) [F52L1A7A111004B100](#) [F52L1A7A111005B100](#) [F52L1A7A111008B200](#) [F52L1A7A111008B100](#) [F52L1A7A111016B200](#) [F52L1A7A111006B100](#) [F52L1A7A111006B200](#) [F52L1A7A111014B100](#) [F52L1A7A111007B100](#) [F52L1A7A111007B200](#) [F52L1A7A111018B200](#) [F52L1A7A111019B100](#) [F52L1A7A111022B200](#) [F52L1A7A111023B100](#) [F52L1A7H111023B100](#) [F52L1A7H111023B200](#) [F52L1A7H111024B100](#) [F52L1A7H111024B200](#) [F52L1A7H111030B100](#) [F52L1A7H111030B200](#) [F52L1A7H111019B100](#) [F52L1A7H111019B200](#) [F52L1A7H111020B100](#) [F52L1A7H111020B200](#) [F52L1A7H111022B100](#) [F52L1A7H111022B200](#) [F52L1A7H111015B100](#) [F52L1A7H111015B200](#) [F52L1A7H111016B100](#) [F52L1A7H111016B200](#) [F52L1A7H111018B100](#) [F52L1A7H111018B200](#) [F52L1A7H111011B100](#) [F52L1A7H111011B200](#) [F52L1A7H111013B100](#) [F52L1A7H111013B200](#) [F52L1A7H111014B100](#) [F52L1A7H111014B200](#) [F52L1A7H111008B100](#) [F52L1A7H111008B200](#) [F52L1A7H111009B100](#) [F52L1A7H111009B200](#) [F52L1A7H111010B100](#) [F52L1A7H111010B200](#) [F52L1A7H111005B100](#) [F52L1A7H111005B200](#) [F52L1A7H111006B100](#) [F52L1A7H111006B200](#) [F52L1A7H111007B100](#) [F52L1A7H111007B200](#) [F52L1A7A111015B100](#) [F52L1A7A111015B200](#) [F52L1A7A111016B100](#) [F52L-1A7A1-11022-B100](#) [F52L1A7H111004B100](#) [F52L1A7H111004B200](#) [F52L1A7A111009B100](#) [F52L1A7A111009B200](#) [F52L1A7A111011B100](#) [F52L1A7A111011B200](#) [F52L1A7A111013B100](#) [F52L1A7A111013B200](#)

## FCI / Amphenol:

[F52L1A7A111014](#)