

1.00mm Pitch FFC/FPC – F51H Series

VERTICAL A-TYPE NON ZIF FLEX CONNECTORS

F51H series is a 1.00mm pitch vertical Non-ZIF flex connector with surface mount termination and no locking mechanism. This connector features a height of 4.20mm and comes in in 4 to 30 contacts. This series features a cable thickness of 0.30mm and provide a durability of 20 mating cycles. The connectors comes 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



TARGET MARKETS



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

- Strong FPC retention makes it vibration-proof
- Single action low-force FFC/FPC insertion and removal
- 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)
- Contact: Phosphor bronze, T=0.20mm
- Mylar: T=0.10mm, thermostable, yellow color

MECHANICAL PERFORMANCE

- FFC/FPC Insertion Force: Initial: 2.45~6.35Kgf/ max., After 20 cycles: 1.9~5.8Kgf/max.
- FFC/FPC Withdrawal Force: Initial: 0.24~0.54Kgf/ min., After 20 cycles : 0.23~0.53Kgf/min.
- Terminal Retention Force: 300gf/terminal min.
- Durability: 20 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 E106764
- RoHS compliant

SPECIFICATION

- Aorora Product Specification: IS.EQC.135

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

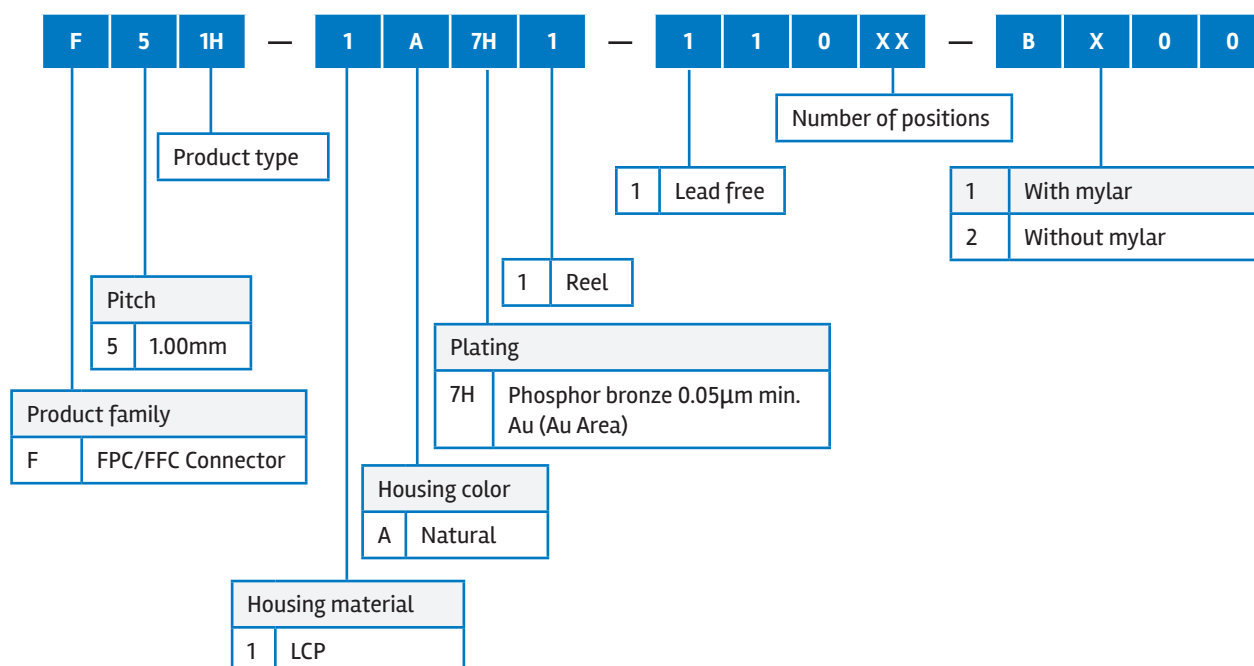


Sensing element
Monitoring camera
Human Machine Interface
Industrial PC
Robotics



Ultrasonic
Patient Monitor
MRI
CT
Infusion Pump

PART NUMBER SELECTOR



AOR0RAF51H079EA4

Mouser Electronics

Authorized Distributor

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