

0.50mm Pitch FFC/FPC – F323 Series

VERTICAL NON-ZIF FLEX AUTOLOCK CONNECTORS

F323 series is a 0.50mm pitch vertical Non-ZIF flex connector with an autolock mechanism and surface mount termination. It features a height of 4.85mm. This series features a cable thickness of 0.33mm and provides the 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
- USCAR-2 T3V2 qualified



TARGET MARKETS



FEATURES

- Non-ZIF (Zero Insertion Force) mechanism requires some force for insertion
- Autolock mechanism
- Provision for GND terminal
- High temperature thermoplastic housing
- Various 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 +125°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: 25N min.
- Insertion Force: 0.3N x n + 4N max.
- Un-mating Force: 0.1N x n min.
- Durability: 20 mating cycles

ELECTRICAL PERFORMANCE

- Voltage Rating: 50VAC/VDC
- Current Rating: 0.5A
- Contact Resistance: (Initial) 60MΩ max., (final) 40MΩ max.
- Insulation Resistance: 100MΩ min.
- Dielectric Withstanding Voltage: No short or breakdown after 500VAC, 2mA, 1min.

PACKAGING

- Tape & Reel

APPROVALS AND CERTIFICATIONS

- USCAR T3V2 compliant
- RoHS compliant

SPECIFICATION

- Aorora Product Specification: IS.EQC.161

ENVIRONMENTAL

- Operating Temperature Range: -55°C to +125°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

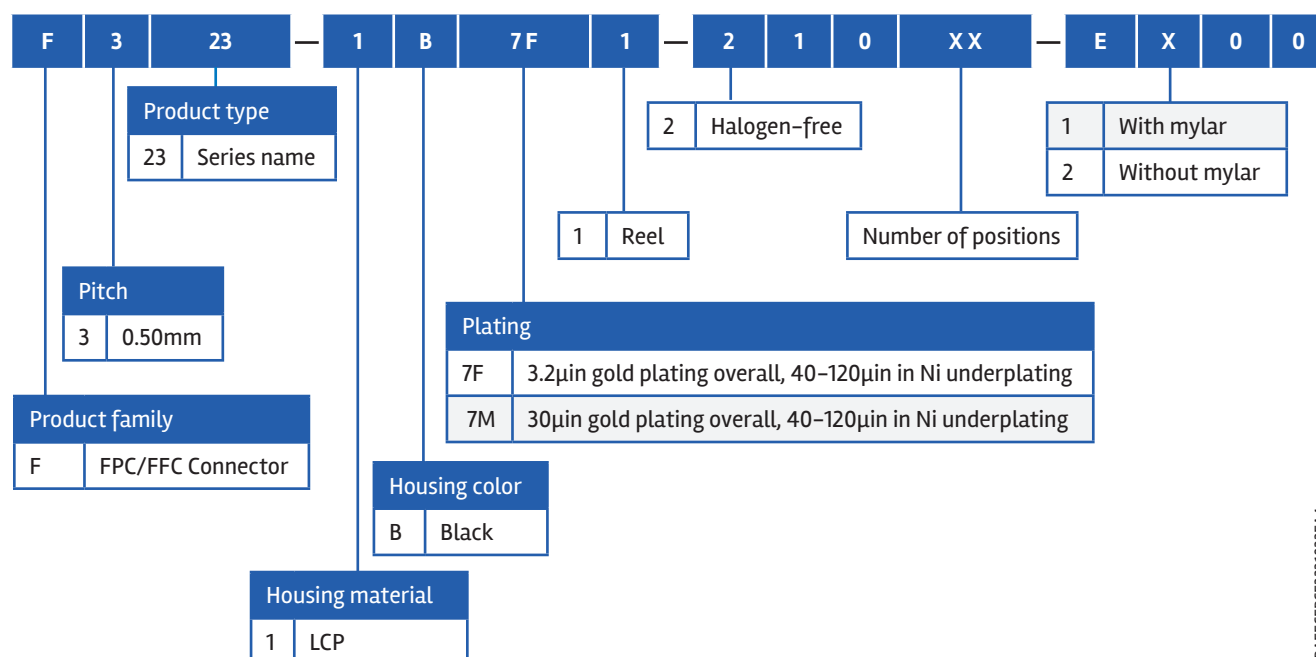


Sensing Element
Monitoring Camera
Human Machine Interface
Industrial PC
Robotics



Ultrasonic
Patient Monitor
MRI
CT
Infusion Pump

PART NUMBER SELECTOR



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