

2.00mm Pitch FFC/FPC – F73W Series

VERTICAL NON-ZIF FLEX CONNECTOR WITH AUTOLOCK

F73W is a vertical Non-ZIF flex connector with an autolock mechanism and surface mount termination. With a height of 6.25mm, these connectors are offered in 5 to 16 contacts. This series features a cable thickness of 0.40mm and provides a 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.

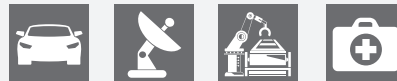
- Allows one-handed operation and ease of assembly
- Strong FFC retention makes it vibration-proof
- Supports robotic operations and Industry 4.0
- High current carrying capacity
- Wide operating temperature from -40°C to $+125^{\circ}\text{C}$
- LV214 S1 and USCAR -2 T3V2 qualified

FEATURES

- 2.00mm pitch for power system
- Autolock mechanism
- Up to 1A max. power supply
- LV214 S1 compliant
- High-temperature thermoplastic housing
- Ground terminals
- Hold down terminals
- Lead and halogen-free



TARGET MARKETS



BENEFITS

- Ideal for FFC layout distribution design
- Allows one-handed operation and ease of assembly
- High current carrying capacity
- Ideal for automotive applications with anti-vibration features
- Wide operating temperature from -40°C to $+125^{\circ}\text{C}$
- Reduces noise
- Enhanced retention force
- Meets environmental, health, and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: LCP, Black color (UL94V-0)
- Actuator: PA9T or PPS, Black color (UL94V-0)
- Contact Terminal: Copper alloy, T=0.20mm
- GND Terminal: Copper alloy, T=0.20mm
- Latch: Copper alloy, T=0.20mm
- Fixing Plate: Copper alloy, T=0.20mm

MECHANICAL PERFORMANCE

- Actuator Open Force: 1~10N
- Actuator Close Force: 1~10N
- Un-mating Force: 20N min.
- Durability: 20 mating cycles
- Vibration: LV214 S1

ELECTRICAL PERFORMANCE

- Voltage Rating: 50VAC/VDC
- Current Rating: 1A
- Contact Resistance: Initial : 30mΩ max., After each test: Δ20mΩ max.
- Insulation Resistance: 100MΩ min.
- Dielectric Withstanding Voltage: No short or breakdown after 500VAC, 2mA, 1min.

PACKAGING

- Tape & Reel

APPROVALS AND CERTIFICATIONS

- RoHS

SPECIFICATION

- Amphenol AORORA Product Specification: IS.EQC.177

ENVIRONMENTAL

- Operating Temperature Range: -40°C to +125°C

TARGET MARKETS/APPLICATIONS



Battery Management Systems



Base Station
Power
Switches



Sensing Element
Monitoring Camera
Human Machine Interface
Industrial PC
Robotics

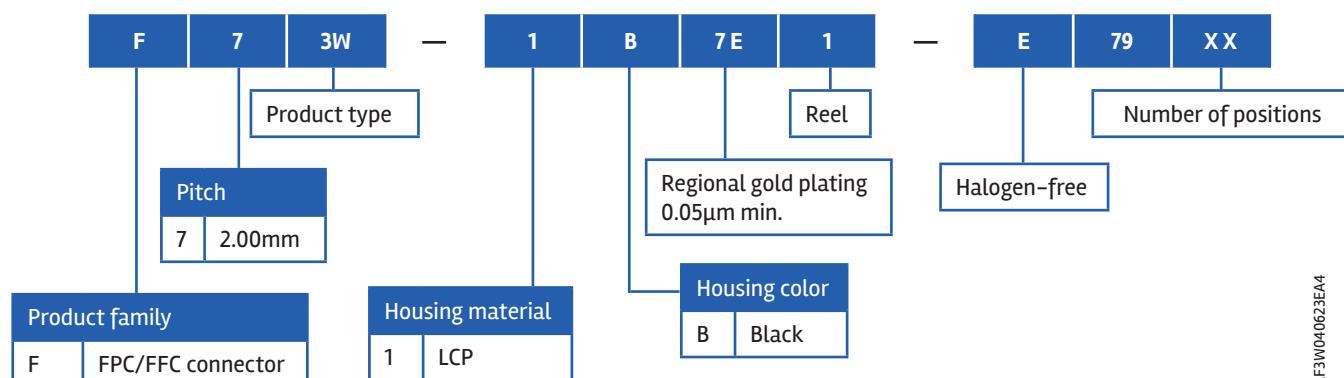


Ultrasonic
Patient Monitor
MRI
CT
Infusion Pump

PART NUMBERS

Description	Part Numbers
Flex Connector, P=2.00mm, H=6.25mm, Vertical, NON-ZIF, AUTOLOCK, 12P	F73W-1B7E1-E7912

PART NUMBER SELECTOR



AORORAF3W040623EA4