

## 2.00mm Pitch FFC/FPC - HRS-F73W Series

### VERTICAL NON-ZIF FLEX CONNECTOR WITH AUTOLOCK

HRS-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  $-40^{\circ}\text{C}$  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  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Reduces noise
- Enhanced retention force
- Meets environmental, health, and safety requirements

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### 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.

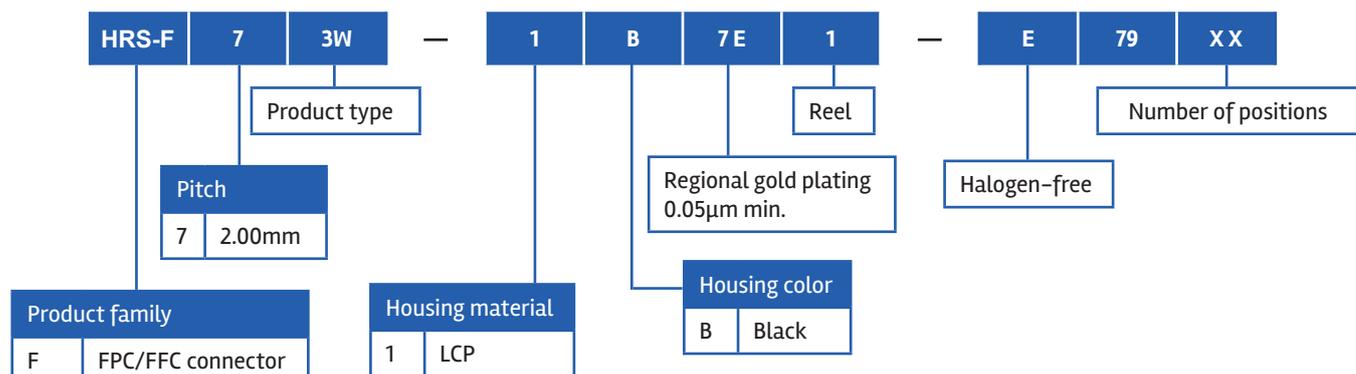
#### PACKAGING

- Tape & Reel

### PART NUMBERS

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

### PART NUMBER SELECTOR



#### APPROVALS AND CERTIFICATIONS

- RoHS

#### SPECIFICATION

- 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