

# 1.00mm Pitch FFC/FPC HRS– F51H Series

## VERTICAL A-TYPE NON ZIF FLEX CONNECTORS

HRS-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 4 to 30 contacts. This series features a cable thickness of 0.30mm and provide a durability of 20 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



### 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  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- Comprehensive range to satisfy different customer requirements
- Meets environmental, health and safety requirements

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### Series 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

- 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

