

0.50mm Pitch FFC/FPC HRS- F31S Series

VERTICAL ZIF FLEX CONNECTOR

HRS-F31S series is a 0.50mm pitch vertical ZIF flex connector with a vertical flip locking mechanism, surface mount termination, and dual contacts. It features a height of 5.80mm and comes in 10 to 70 contacts. This series features a cable thickness of 0.30mm and provides enhanced durability of 30 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

- Strong FFC/FPC retention makes it vibration-proof
- Dual contact points ensure enhanced contact stability
- Ensures high solderability and high durability
- Wide operating temperature range of -40°C to +105°C
- USCAR-2 T3V2 qualified



FEATURES

ZIF (Zero Insertion Force) mechanism

- Vertical flip locking mechanism
- Dual contact points
- Design against solder and flux wicking
- High-temperature thermoplastic housing
- 10 to 70 positions available
- Lead and halogen-free

BENEFITS

- Absence of frictional mating wear results in high mating cycle life
- Easy to operate and strong FFC/FPC retention makes it vibration-proof
- Ensures enhanced contact stability
- 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)

Actuator: LCP, Black color (UL94V-0)

• Contact: Phosphor bronze, T=0.15mm

Anchor-plate: Brass, T=0.40mm

Mylar: T=0.10mm, Thermostable, Brown color

MECHANICAL PERFORMANCE

• FFC/FPC Retention Force: 20gf/pin

Terminal Retention Force: 100gf/terminal min.

Anchor-plate Retention Force: 500gf/plate min

Durability: 30 mating cycles

ELECTRICAL PERFORMANCE

Voltage Rating: 50V AC/DC

Current Rating: 0.5A

■ Contact Resistance: 30MΩ max.

• Insulation Resistance: 500M Ω 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.034

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

