

0.50mm Pitch FFC/FPC HRS– F304 Series

RIGHT ANGLE ZIF FLEX CONNECTOR

HRS-F304 series is a 0.50mm pitch right angle ZIF flex connector with a front flip locking mechanism, dual beam and double contact points. It features surface mount termination with a height of 2.50mm and comes in 10 to 60 contacts. This series features a cable thickness of 0.30mm and provides 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.

- Easy to operate and strong FFC/FPC retention makes it vibration-proof
- Dual beam and double contact points provide enhanced contact stability
- Ensures high solderability and high durability



TARGET MARKETS



FEATURES

- ZIF (Zero Insertion Force) mechanism
- Front flip locking function
- Dual beam and double contact points
- Design against solder and flux wicking
- High-temperature thermoplastic housing
- 10 to 60 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 $+105^{\circ}\text{C}$
- Comprehensive range to satisfy different customer requirements
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: LCP, natural color (UL94V-0)
- Actuator: PA9T, black color (UL94V-0)
- Contact: Phosphor bronze, T=0.15mm
- Anchor-plate: Brass, T=0.15mm
- Mylar: T=0.10mm, thermostable, yellow color

MECHANICAL PERFORMANCE

- FFC/FPC Retention Force: 40gf/pin
- Terminal Retention Force: 100gf/terminal min.
- Anchor-plate Retention Force: 100gf/plate min.
- Durability: 20 mating cycles

ELECTRICAL PERFORMANCE

- Voltage Rating: 50V AC/DC
- Current Rating: 0.5A
- Contact Resistance: Initial : 40MΩ max., after each test: 80MΩ max.
- Insulation Resistance: 100MΩ 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.125

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

