

VHC Series

0.5MM PITCH ZIF RIGHT ANGLE FFC-FPC CONNECTOR

FFC-FPC connectors with Zero Insertion Force (ZIF), which allows for easy cable insertion. VHC offers front sides flip actuator with bottom contact type. These connectors feature a height of 2.00mm and are offered in 50 and 60 contacts. The robust design with front side flip makes cable handling easy and error-free even with high pin counts. In addition, VHC offers a cable lock option to prevent unintentional cable release. VHC series connectors have a proven track record in automotive, data, industrial, telecommunications, consumer and medical application equipment.

- Front side flip type actuator makes cable application easy and error free
- High pin count and robust design
- Ensures high solderability and high durability



TARGET MARKETS



FEATURES

- ZIF (Zero Insertion Force) mechanism with a robust front side flip actuator with an audible click
- Optional cable lock for extra cable retention
- Design against solder and flux wicking
- High-temperature, dimensional stable thermoplastic housing
- Lead and halogen-free

BENEFITS

- Easy to operate, highly reliable and the audible click ensures correct mating
- Prevents unintentional cable release
- Ensures high solderability
- Covers general operating temperature range of -55°C to +105°C
- Meet environmental, healthy and safety requirement

TECHNICAL INFORMATION

MATERIAL

- Housing: LCP, natural color (UL94V-0)
- Actuator: PPS, black color (UL94V-0)
- Contact: Copper alloy
- Tab: Copper alloy

MECHANICAL PERFORMANCE

- FFC/FPC Retention Force: 0.25N/contact min.
- Durability: 20 mating cycles

ELECTRICAL PERFORMANCE

- Voltage Rating: 50V A.C./D.C.
- Current Rating: 0.5A A.C./D.C.
- Contact Resistance: 50mΩ max.(Initial value)
- Insulation Resistance: 500MΩ min.
- Dielectric Withstanding Voltage: No short or breakdown after 250V A.C., 2mA, 1min.

ENVIRONMENTAL

- Operating Temperature Range: -55°C to +105°C

APPROVALS & CERTIFICATION

- RoHS compliant

PACKAGING

- Tape & Reel

SPECIFICATIONS

- Orientation: Right angle
- Cable Termination: ZIF
- Cable Type: FFC/FPC
- Board Termination: Surface mount
- Contact Location: Bottom
- Height: 2.0mm
- Lead-free with gold plating
- Accommodated cable thickness: 0.3mm
- Halogen-free option

TARGET MARKETS/APPLICATIONS



Car Multimedia
Car Navigation
Dashboard
Lighting



Gaming
LCD & OLED Displays



Base Station
Switches
Controllers
Storage



Controllers
HMI
Vending Machines
PLC
Drives



Ultrasonic
Patient Monitor
MRI
CT
Infusion Pump
Hospital Bed

PART NUMBER SELECTOR

