



**THE DATASHEET OF
59453-042110EHLF**



SFVL Series

0.5MM PITCH ZIF RIGHT ANGLE FFC-FPC CONNECTOR

FFC-FPC connectors with Zero Insertion Force (ZIF), which allows for easy cable insertion. SFVL series offer a back side flip actuator with top and bottom contact types. These connectors feature a height of 0.9mm and are offered in 4 to 13 contacts. SFVL series connectors are being used in small rugged devices like handhelds; HMI's; camera's and display modules in various devices.

- Low profile for maximum space savings
- Back side flip actuator design makes cable insertion easy
- Cable locking feature provides high retention force



TARGET MARKETS



FEATURES

- 0.9mm low-profile and small footprint
- ZIF mechanism with a back side flip actuator
- The large flip actuator on the small housing provides a secure cable lock
- Design against solder and flux wicking
- High-temperature, dimensional stable thermoplastic housing
- 4 to 13 positions available
- High cable retention force
- Lead and halogen-free

BENEFITS

- Save maximum space on small devices and mobile applications
- Provides a high number of mating cycles with stress-free mating and easy assembly
- Prevents un-intentional cable release
- Ensures high solderability
- Covers general operating temperature range of -55°C to +105°C
- Supports many applications as a general-purpose product
- Vibration and Mechanical Shock Testing per USCAR-2 has been passed
- Meet environmental, healthy and safety requirement

TECHNICAL INFORMATION

MATERIAL

- Housing: LCP, Black color (UL94V-0)
- Actuator for Bottom: PPS, Black color (UL94V-0)
- Actuator for Top: PPS, White color (UL94V-0)
- Contact: Copper Alloy
- Tab: Brass

MECHANICAL PERFORMANCE

- Durability: 10 mating cycles
- Vibration and Mechanical Shock Testing per USCAR-2 has been passed

ELECTRICAL PERFORMANCE

- Voltage Rating: 50VAC./VDC
- Current Rating: 0.4A AC/DC
- Contact Resistance: 30mΩ max.(initial value)
- Insulation Resistance: 100MΩ min.
- Dielectric Withstanding Voltage: No short or breakdown after 200VAC, 1min. (2mA max.)

ENVIRONMENTAL

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

APPROVALS & CERTIFICATION

- RoHS compliant
- Halogen-free

PACKAGING

- Tape & Reel

SPECIFICATIONS

- Orientation: Right angle
- Cable Termination: ZIF
- Cable Type: FPC
- Board Termination: Surface mount
- Contact Location: Top and bottom options
- Height: 0.9mm
- Lead free with Gold plating
- Halogen-free
- Accommodated Cable Thickness: 0.2mm

TARGET MARKETS/APPLICATIONS



Car Multimedia
Car Navigation
Dashboard
Lighting



Gaming
LCD & OLED Displays



Base Station
Switches
Controllers
Storage

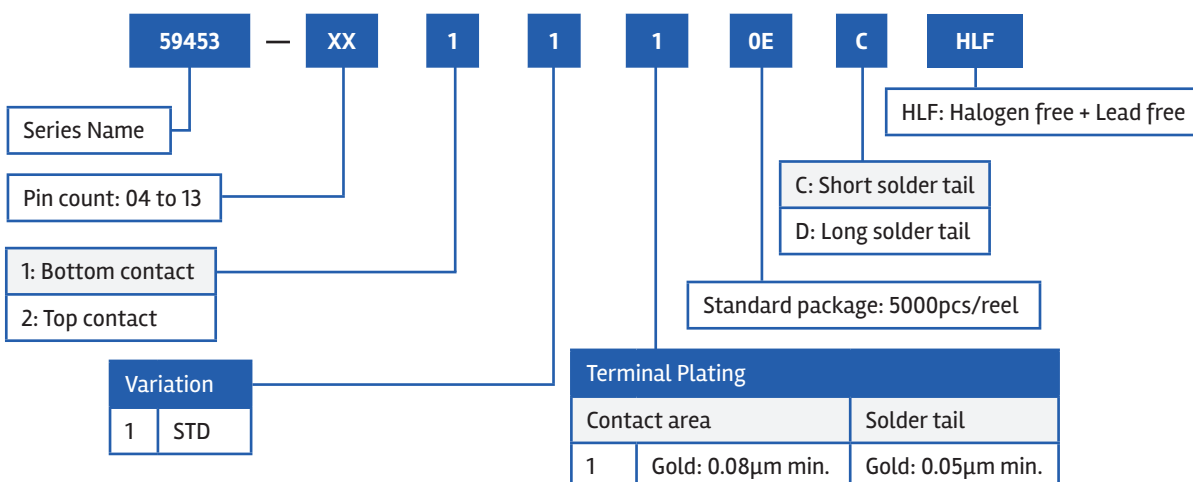


Controllers
HMI
Vending Machines
PLC
Drives

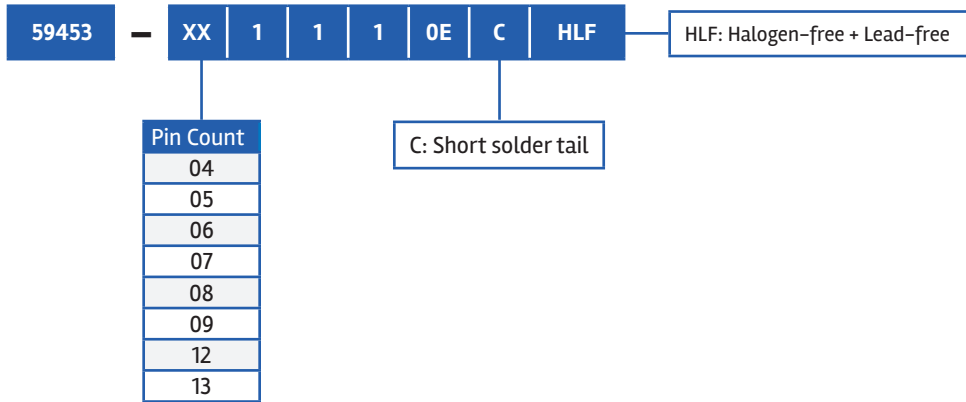


Ultrasonic
Patient Monitor
MRI
CT
Infusion Pump
Hospital Bed

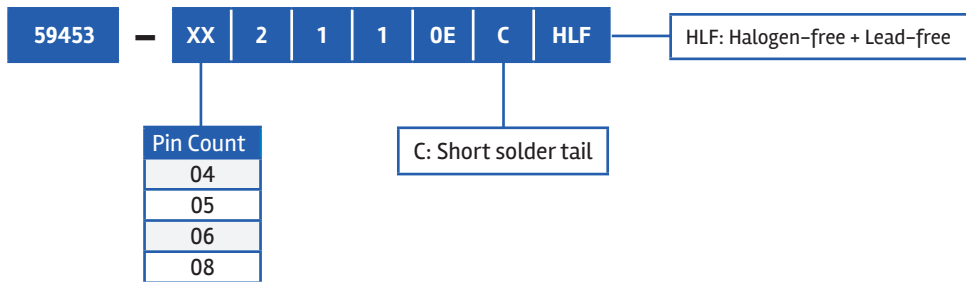
PART NUMBER SELECTOR



Bottom Contact:





Top Contact:






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-  [Amphenol FCI Information](#)

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