

AutoLock FPC Connector

0.50mm pitch, 2.50mm height, Non-ZIF design

SINGLE ACTION AUTO-LOCKING FPC

The AutoLock FPC connector is a 0.50mm pitch, reliable and robust solution. It comes with an auto locking mechanism that secures flex cable to the fine pitch connector. Its ability to withstand vibration and ensure strong FPC retention makes it ideal for Automotive and Industrial applications such as car navigation systems and robotics.

- Auto-locking mechanism
- Poka Yoke Insertion mechanism
- High speed data rate up to 5Gb/s



FEATURES

- Auto-locking mechanism
- Poka Yoke Insertion mechanism
- High speed transmission rate to meet signal and video demand

BENEFITS

- Withstands vibration
- Shock Proof
- Ensures strong FPC retention
- Fully locked and engaged FPC
- Secondary action required to remove FPC
- Display - V by one HS
- Signal - Ethernet, USB 3.1 Gen 1

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic
- Contact: Corson Alloy
- Metal Shield: Phosphor Bronze

MECHANICAL PERFORMANCE

- Durability: 20 mating cycles
- Flex Cable Retention: 25N min.

ELECTRICAL PERFORMANCE

- Contact Resistance: 60mΩ max
- Insulation Resistance: 100MΩ min @ 500VDC
- Voltage Rating: 50V AC/DC
- Current Rating: 0.5A AC/DC
- Dielectric Withstanding Voltage: 250VAC min. for 1 minute

ENVIRONMENTAL

- Operating Temperature: -55°C to +105°C
- High Temperature Life: EIA364-17, Method A, Test Condition III, 96 hours
- Thermal Shock: EIA364-32, Method A, Test Condition I, 50 cycles
- Salt Spray: EIA364-26, 48 hours

PACKAGING

- Tape and Reel

APPROVALS AND CERTIFICATIONS

- UL94 V-0
- RoHS
- Halogen-free

TARGET MARKETS/APPLICATIONS



Car Navigation Systems
Display Cluster



Commercial Displays
Flat Panel Display
LED TV
Notebook



Automation
Machineries
Robotics

PART NUMBER

Description	Part Numbers
AutoLock FPC Connector, P0.5, H2.5, Non-ZIF	10121375-XXXXXEHLF