



4-Position Compression Connectors

Description

A new series of one-piece compression connectors has emerged as an alternative to two-piece board-to-board connectors. These connectors can be soldered onto a Flex Printed Circuit (FPC) or a Printed Circuit Board (PCB). They are most suitable for low cost, low profile assembly of board-to-board or flex-to-board electronic devices.

These connectors come with 1.2 mm pitch, low profile and dual contact with pick-up cap. The pick-up cap allows the SMT Machine to pick and place onto FPC / PCB. It also act as a protector for any un-attended damages on the contact. Upon request, they may be expanded to the preferred contact positions.

Features & Benefits

- One piece connector on 1.2 mm (.047") and 4.15 mm (.163") centerlines
- 4-position (expandable to other positions)
- SMT solder tail
- High temperature plastic compatible with IR and vapor-phase soldering processes
- Contacts compress directly to solder pads on mating PCB
- Pick-up cap for SMT
- Mated working height of 1.5 mm
- One-piece design reduces final assembly cost of product
- Designed for cost-effective, full automation
- Suitable for low-profile assembly

Target Markets

- Storage
- Mobile phone
- Consumer



Target Applications

- Spin motor application in hard disk drives
- Board-to-board applications in portable electronic devices

Technical Data

Materials

- Housing
 - High temperature plastic (UL94V-0)
 - Black Color
 - Applicable solder processes (IR, vapor-phase)
- Contact
 - Terminal (Copper Alloy)
- Plating
 - Terminal (Gold over Nickel underplate)

For more information, please visit our website at www.fciconnect.com

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Mechanical Performance

- Normal contact retention force
 - Terminal (40gf min.)
- Durability
 - 25 cycles
- Contact normal force
 - 40gf min.
- Mated working height
 - 1.5 mm

Electrical Performance

- Insulation resistance
 - 100 M Ω min.
- Withstanding voltage
 - 500V AC
- Current rating
 - Terminal (1.8 amp continuous)
- Contact resistance
 - $\Delta R = 20m\Omega$ max.

Specifications

- UL and CSA pending

Packaging

- Tape-and-Reel

Ordering Information

- Part Number
 - 10032069

Applications



Connector in a Hard Disk Drive



Connector on a Printed Circuit Board

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