

QUICKIE® PRESS-FIT, SHROUDED HEADERS

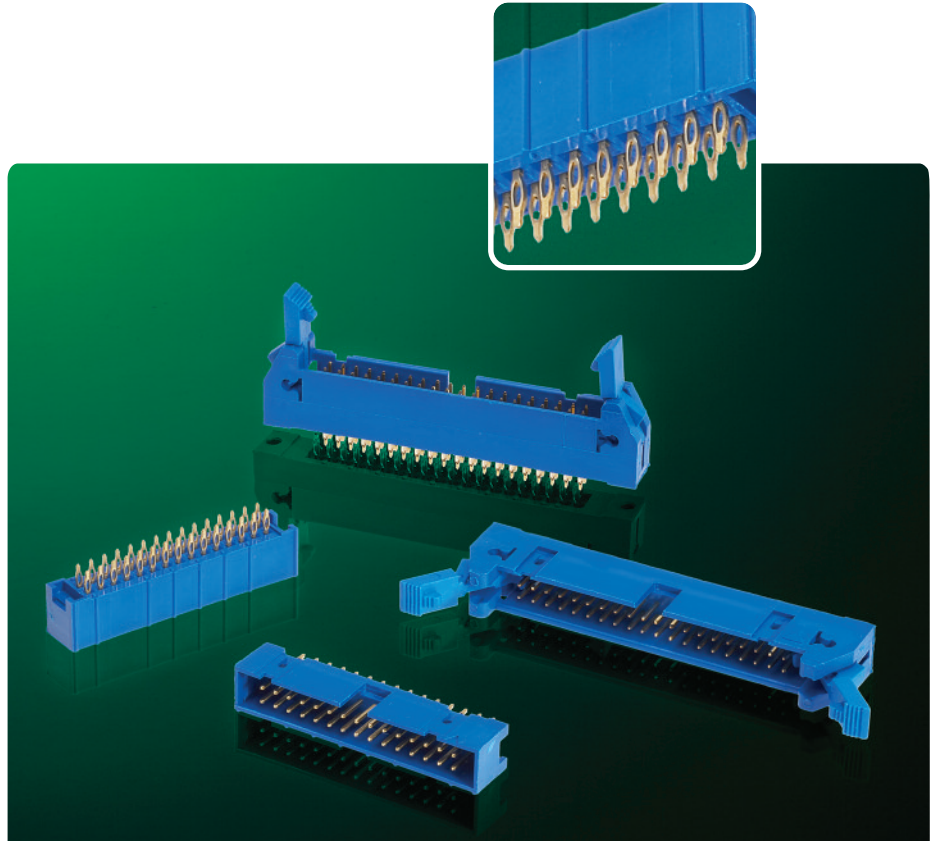
for lead-free PCBs

DESCRIPTION

Quickie® press-fit, shrouded headers complement FCI's comprehensive family of Quickie ribbon-cable receptacles and solder-to-board PCB headers. The spring-tension, "Eye-of-Needle" compliant section reduces insertion force during connector installation, thereby minimizing stress on the plated-through holes during insertion while still providing ample contact force and connector retention.

The press-fit headers are offered in low-profile, slimline versions or versions equipped with end latches. Two latch options are available. Standard-height latches are compatible with an IDC receptacle having an installed cable strain relief. Low-profile latches are designed to accommodate an IDC receptacle without a strain relief. The protective shrouds also feature a polarizing keyway to accommodate the center key on a corresponding IDC receptacle.

These dual-row headers utilize 0.64mm (0.025") square pins spaced on 2.54mm (0.100") x 2.54mm (0.100") pitch. Twelve standard connector sizes provide from 10 to 60 total contact positions.



FEATURES & BENEFITS

- The "Eye-of-Needle" compliant section on pin termination tails reduces the stress on plated-through holes during connector insertion to enable easy installation on lead-free boards
- Two-row connectors are available in industry-standard sizes ranging from 10 to 60 total positions
- Molded header shroud protects pins, assists alignment during mating and provides polarization capability
- Versions with standard or low-profile end latches provide both latching and ejection functionality
- Headers with pre-installed latches eliminate the need for later hand installation of latches
- Standard contact finish is 0.76µm (30µ") gold or GXT fully plated; selective plating is available as an option
- Lead-free and RoHS compliant

TARGET MARKETS / APPLICATIONS

- Communications
- Data
- Industrial & Instrumentation
 - Medical Equipment
 - Test Equipment

MATERIALS

- Housings: Glass-filled polyester, blue. UL 94V-0
- Contact base metal: Phosphor-bronze
- Contact finish: 0.76µm (30µ") gold or GXT (palladium-nickel alloy with gold flash) over 1.27µm (50µ") nickel

ENVIRONMENTAL

- Temperature range: -65°C to +125°C

ELECTRICAL PERFORMANCE

- Insulation resistance: 1,000 MΩ
- Withstanding voltage: >1,000 V RMS (at sea level)
- Current rating: 3A continuous

SPECIFICATIONS

- Product specification: GS-12-400
- Application drawing: TA-556

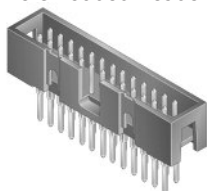
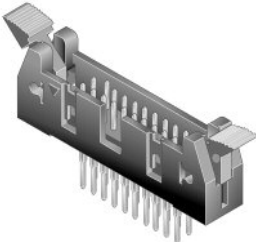
MECHANICAL PERFORMANCE

- Contact retention (to housing): 13.34 N (3 lbf)/contact min.
- Contact retention (to board): 13.34 N (3 lbf)/contact min.
 - Recommend plated thru-hole dimensions: 1.15 mm (0.0453") diameter drilled hole with 0.025 mm (0.001") to 0.076 mm (0.003") copper plating and 0.0076 mm (0.0003") to 0.018 mm (0.0007") solder plating to achieve specified finished hole size of 1.02 mm (0.040")

PACKAGING

- Trays

PART NUMBERS

Connector Style	Available Sizes (number of rows x contacts/row)	Drawing Number
Slimline shrouded headers 	2x5, 2x7, 2x8, 2x10, 2x12, 2x13, 2x15, 2x17, 2x20, 2x22, 2x25, 2x30	10073456
Latching shrouded headers 	2x5, 2x7, 2x8, 2x10, 2x12, 2x13, 2x15, 2x17, 2x20, 2x22, 2x25, 2x30	10080054

Product drawings and additional technical information can be found at www.fciconnect.com/basics