Pico-Clasp Wire-to-Board Connectors

Pico-Clasp 1.00mm pitch Wire-to-Board connectors offer a variety of mating styles and orientations plated in Tin or Gold to provide design flexibility in a vast array of compact applications. Newly added 0.38 and 0.76μm Gold Plated Versions.

Features and Advantages

- **Inner Friction Lock**
  - Space saving

- **Inner Positive Lock**
  - Secure mating retention.
  - Easy to mate and unmate

- **Thick gold plating options (0.1, 0.38 and 0.76μm)**
  - Superior reliability and durability in harsh environments

- **Smallest pitch for positive lock**
  - **Wire-to-Board crimp System**
  - Provides space savings for mounting other components

- **SMT Mounting**
  - Provides assembly and cost efficiencies. Automated assembly reduces manual labor processes

Applications

- **Consumer**
  - Drone, UAV
  - Smart meter
  - Air conditioner
  - TV
  - Mobile POS Terminals
  - Any other innovative electronic devices

- **Medical**
  - Patient monitoring

- **Industrial**
  - Servo motor

- **Automotive**
  - Electronic module

- **Telecommunications / Networking**
  - Server

- **Applications**
  - Mobile POS Terminals
  - Servo Motor
  - Drone
  - Patient Monitor
  - Automotive module
  - Server
## Specifications

### REFERENCE INFORMATION
- Packaging: Terminals – Reel
- Housing, Retainers – Bag
- Headers – Emboss tape on reel
- Designed In: Millimeters
- RoHS: Yes
- Glow Wire Compliant: No
- Halogen Free: No

### ELECTRICAL
- Voltage (max.): 50V
- Current (max.): See Derating information
- Contact Resistance: 20 milliohms Max.
- Dielectric Withstanding Voltage: 250V AC, 1 minute
- Insulation Resistance: 100 Megaohms min.
- AWG: 28, 30, 32
- UL: 1571

### MECHANICAL
- Durability (min.): 30 cycles

### PHYSICAL
- Terminal: Phosphor Bronze
- Housing: Nylon
- Plating: Tin or 0.1/0.38/0.76µm Gold
- Operating Temperature: -40 to +105°C

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### Ordering Information

#### SINGLE ROW

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<thead>
<tr>
<th>AWG#</th>
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<th>10-circuit</th>
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(1) Values are for REFERENCE ONLY.
(2) Current deratings are based on not exceeding 30°C Temperature.
(3) PCB trace design can greatly affect temperature rise results in Wire-to-Board applications.
(4) Data is for all circuits powered.
(5) All data are interpolated information.

#### DUAL ROW

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<tr>
<td>32</td>
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#### Circuit 1 or 2 Rows | Plating | Locking: Friction/ Positive | Vertical | Right Angle | Crimp Housing | Terminal | AWG |
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www.molex.com/link/picoclasp.html

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