Micro-Lock Plus 1.25mm Pitch Vertical Header with Potting Capability

One of the smallest wire-to-board “potting” connectors, with 3.00mm- (single-row) and 6.00mm (dual-row) high potting material to safeguard contact and latch areas in applications requiring environmental protection

Features and Advantages

Withstands up to 105°C operating temperatures
Meets the extended temperature requirements of various industries and withstands harsh environments

Tin-Bismuth terminals
Prevents whiskering for a clean and uninterrupted signal; supports terminal ruggedness and reliability

Robust metal solder tabs
Provides secure PCB retention and strain relief to solder joints

Smallest 1.25mm-pitch vertical header with positive lock and potting capability
Delivers secure mating retention and environmental protection without sacrificing compactness

Wide positive latch that delivers audible click
Offers contact assurance and secure mating retention

Potting limit line
Prevents ingress of dust and moisture

Micro-Lock Plus 1.25mm Pitch Vertical Header with Potting Capability
(view of board with the connector mounted and potting liquid)

Receptacle housing
505566**** 2 to 16 circuit
204532**** (low halogen) 2 to 16 circuit

Plug housing (vertical)
205957**** (low halogen) 2 to 16 circuit

Plug housing (vertical)
207760**** (low halogen) 4 to 14 circuit

Plug housing right-angle
505448**** 8 to 42 circuit

Plug housing right-angle
207760**** (low halogen) 4 to 14 circuit

Plug housing (vertical)
505568**** 2 to 16 circuit

Plug housing (vertical)
505433**** 8 to 42 circuit

Plug housing (vertical)
205957**** (low halogen) 2 to 16 circuit

Plug housing (vertical)
205957**** (low halogen) 2 to 16 circuit
### Specifications

**REFERENCE INFORMATION**
Reference Information
Packaging: Embossed (header assembly)
Mates With: Micro-Lock Plus Connectors
Designed In: Millimeters
RoHS: Yes
Low halogen: Yes

**ELECTRICAL**
Voltage (max.): 50V
Current (max.):
- 3.6A (2 circuit/26 AWG) (single-row)
- 2.5A (4 circuit/26 AWG) (dual-row)
Contact Resistance (max.): 20 milliohms
Dielectric Withstanding Voltage: 500V AC
Insulation Resistance (min.): 100 Megohms

**MECHANICAL**
Crimp Terminal Insertion Force (max.): 4.9N
Crimp Terminal Retention Force (min.): 9.8N
Crimping Pull Out Force (min.): 19.6N (26 AWG)
Housing Lock Strength (min.):
- 58.8N (14 to 16 circuits) (single-row)
- 49.0N (14 circuits) (dual-row)
Durability (max.): 30 cycles

**PHYSICAL**
Header Housing − PA
Header Pin: Copper Alloy, Tin-Bismuth plating
Operating Temperature: -40 to +105°C

### Markets and Applications

**Industrial**
- Power tools
- Test equipment
- Robots
- Factory automation
- Drones
- Vending machines

**Consumer**
- Refrigerators
- Air conditioners
- Hot water gas heaters

<table>
<thead>
<tr>
<th>AWG#</th>
<th>2-Circuit</th>
<th>8-Circuit</th>
<th>16-Circuit</th>
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<tr>
<td>26</td>
<td>3.6</td>
<td>2.4</td>
<td>2.2</td>
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<td>28</td>
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<td>30</td>
<td>2.8</td>
<td>1.8</td>
<td>1.5</td>
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<tr>
<th>AWG#</th>
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<th>8-Circuit</th>
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</table>
# Micro-Lock Plus 1.25mm Pitch Vertical Header with Potting Capability

## Ordering Information

**NEW 1.25 Micro-Lock Plus connectors with potting capability**

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Pitch (mm)</th>
<th>Component</th>
<th>Circuits</th>
<th>Rows</th>
<th>Color*</th>
<th>Minimum Order Quantity (MOQ)</th>
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</thead>
<tbody>
<tr>
<td>205957</td>
<td>1.25</td>
<td>Vertical Header with potting capability (Low Halogen)</td>
<td>2 to 16</td>
<td>Single</td>
<td>Black</td>
<td>Refer to SAP</td>
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<tr>
<td>204532</td>
<td>1.25</td>
<td>Receptacle Housing (Low Halogen)</td>
<td>2 to 16</td>
<td>Single</td>
<td>Black</td>
<td>Refer to SAP</td>
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<td>207760</td>
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<td>Vertical Header with potting capability (Low Halogen)</td>
<td>4 to 14</td>
<td>Dual</td>
<td>Black</td>
<td>Refer to SAP</td>
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<tr>
<td>204523</td>
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<td>Receptacle Housing (Low Halogen)</td>
<td>4 to 14</td>
<td>Dual</td>
<td>Black</td>
<td>Refer to SAP</td>
</tr>
</tbody>
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**Existing 1.25 Micro-Lock Plus connectors without potting capability**

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<tbody>
<tr>
<td>505568</td>
<td>1.25</td>
<td>Vertical Header</td>
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<td>Single</td>
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<tr>
<td>505567</td>
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<td>Right-angle Header</td>
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<td>505566</td>
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<td>Receptacle Housing</td>
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<td>505433</td>
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<td>Vertical Header</td>
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<td>Dual</td>
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<td>505448</td>
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<td>Right-angle Header</td>
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<td>Dual</td>
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<td>Refer to SAP</td>
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<td>Receptacle Housing</td>
<td>8 to 42</td>
<td>Dual</td>
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**Existing 1.25 Micro-Lock Plus crimp terminal**

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<tr>
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</tbody>
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*Black housing color is standard. For non-standard color housing option, please contact Molex for more details.*