Ideal for compact applications, the MicroClasp 2.00mm Wire-to-Board single-row and dual-row Connector System provides electrical and mechanical reliability that meets a diverse range of industry applications up to 85°C

Features and Advantages

2.00mm-pitch connector
Delivers secure mating retention without sacrificing compactness

![Image](image1)

Readily available tooling
The crimp applicators are widely available in the market

![Image](image2)

Through-hole single- and dual-row headers in vertical and right-angle orientations
Provides design flexibility

![Image](image3)

Inner positive lock
Provides latch protection, secure terminal retention and an audible mating click for better mating retention of header and harness

High-power cable
Allows up to 3.0A current

TPA Retainer
Ensures wires are fully inserted

Markets and Applications

Consumer
- White goods
- Gaming machines
- Air conditioners
- Refrigerators
- Vacuum cleaners
- Power tools
- ATMs
- Vending machines

Automotive
- Steering wheels, paddle shifts and combination switches
- Shifters
- Headlights and rear- and side-mirror lights
- Internal connections with other units
MicroClasp 2.00mm Pitch Wire-to-Board Connector System

Specifications / Single Row

**REFERENCE INFORMATION**
- Packaging:
  - Reel (Terminal);
  - Tray (Header Assembly);
  - Bag (Receptacle Housing, TPA retainer);
- Mates With:
  - MicroClasp single-row connectors (55932/55935)
  - Use with:
    - 51382 (Single-row Rec Housing)
    - 500638 (TPA retainer)
    - 56134-9000 (Crimp Terminal)
- Designed In: Millimeters
- RoHS: Yes
- Low Halogen: No

**ELECTRICAL**
- Voltage (max.): 250V
- Current (max.): 3.0A (22 AWG)
- Contact Resistance (max.): 20 milliohms
- Dielectric Withstanding Voltage: 1000V AC (1 minute)
- Insulation Resistance (min.): 1000 Megohms

**MECHANICAL**
- Crimp Terminal Insertion Force (max.): 9.8N
- Crimp Terminal Retention Force (min.): 9.8N
- Pin Retention Force (min.): 9.8N
- Crimping Strength (min.): 39.2N (22 AWG)
- Durability (max.): 30 Cycles

**PHYSICAL**
- Housing:
  - Receptacle – PA66
  - Header – PBT
  - Terminal / Pin (Plating):
- Operating Temperature: -25 to +85°C

Specifications / Dual Row

**REFERENCE INFORMATION**
- Packaging: Reel (Terminal)
- Tray (Header Assembly)
- Bag (Receptacle Housing, TPA retainer)
- Mates With:
  - MicroClasp dual-row connectors (55917/55959)
  - Use with:
    - 51353 (Dual-row Rec Housing)
    - 500638 (TPA retainer)
    - 56134-9000 (Terminal)
- Designed In: Millimeters
- RoHS: Yes
- Low Halogen: No

**ELECTRICAL**
- Voltage (max.): 250V
- Current (max.): 3.0A (22 AWG)
- Contact Resistance (max.): 20 milliohms
- Dielectric Withstanding Voltage: 1000V AC (1 minute)
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**PHYSICAL**
- Housing:
  - Receptacle – PA66
  - Header – PBT
  - Terminal / Pin (Plating):
- Operating Temperature: -25 to +85°C

Ordering Information

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<th>Series No.</th>
<th>Pitch (mm)</th>
<th>Component</th>
<th>Circuits</th>
<th>Rows</th>
<th>Color</th>
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<td>TPA retainer</td>
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<td>Single</td>
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<td>Single</td>
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<td>Dual</td>
<td>-Natural</td>
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<td>Plug Right Angle Header</td>
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www.molex.com/link/microclasp.html

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