Ideal for compact applications, the Micro-Lock Plus Wire-to-Board Connector System provides electrical and mechanical reliability in a high-temperature design that meets other industry requirements.

**Features and Advantages**

- **Smallest 1.25mm-pitch connector with positive lock**
  Delivers secure mating retention without sacrificing compactness

- **Wide positive latch that delivers audible click**
  Provides secure mating retention. Ensures proper mating

- **Inner lock for dual-row versions; outer lock for single-row versions**
  Strengthens lock for more reliable connection

- **Dual contact terminal design**
  Offers secure contact and terminal retention

- **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

- **Withstands up to 105°C operating temperature**
  Meets other industry requirements. Withstands harsh environments

- **Available Gold and Tin**

- **2.00mm-pitch connector with positive lock**
  Delivers secure mating retention without sacrificing compactness

- **SMT terminate**
  Prevents whitening for a clean and uninterrupted signal. Supports terminal ruggedness and reliability

- **2 to 16 circuits, single row plug in vertical and horizontal configuratives**
  Offers design flexibility

- **2 to 42 circuits, single and dual rows, vertical and right-angle plug configurations**
  Offers design flexibility

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

- **Low-halogen and high-temperature capabilities**
  Meets other industry requirements. Withstands harsh environments

- **Micro-Lock Plus 2.00mm-Pitch Wire-to-Board Connector System**
Micro-Lock Plus Wire-to-Board Connector System

Applications

Consumer
- White goods
- Gaming machines
- Drones
- Air conditioners
- Laser printers
- Vacuum cleaners

Industrial Automation

Automotive
- Steering wheel, paddle shift, combination switches

Specifications 1.25mm

REFERENCE INFORMATION
Packaging: Reel (Terminal);
Embosed (Header Assembly);
Bag (Receptacle Housing);
Mates with: Micro-Lock Plus Connectors and Crimp terminals
Designed In: Millimeters
RoHS: Yes
Low Halogen: Yes *Depends on series number

ELECTRICAL
Voltage (max.): 50V
Current (max.): 3.6A/Single (2 circuit/AWG#26)
2.4A/Dual (8 circuit/AWG#26)
Contact Resistance (max.): 20 milliohms
Dielectric Withstanding Voltage: 500V AC
Insulation Resistance (min.): 100 Megohms

MECHANICAL
Durability (max.): 30 Cycles
Crimp Terminal Insertion Force (max.): 4.9N
Crimp Terminal Retention Force (min.): 9.8N
Crimping Pull Out Force: 19.6N (min.) (AWG#26)
Housing Lock Strength: 68.6N(min.) (Single 14-16 circuits) / 98.0N(min.) (Dual 38-42 circuits)
Durability (max.): 30 Cycles

PHYSICAL
Housing:
Receptacle – PBT
Header – PA
Crimp terminal: Copper alloy, Tin or Au plating
Header pin: Copper alloy, Tin Bismuth or Au plating
Operating Temperature: -40 to +105°C

Applications

Consumer
- White goods
- Gaming machines
- Drones
- Air conditioners
- Laser printers
- Vacuum cleaners

Industrial Automation

Automotive
- Steering wheel, paddle shift, combination switches

AWG#

SINGLE

26 3.6 2.4 2.2
28 3.1 2.1 1.8
30 2.8 1.8 1.5

DUAL

AWG#

26 2.4 1.8 1.7 1.6 1.5
28 2.1 1.6 1.5 1.4 1.3
30 1.8 1.4 1.3 1.2 1.1
Micro-Lock Plus Wire-to-Board Connector System

Specifications 2.00mm

REFERENCE INFORMATION
Packaging: Reel (Terminal); Embossed (Header Assembly); Bag (Receptacle Housing); Mates With: Micro-Lock Plus Connectors Designed In: Millimeters RoHS: Yes Low Halogen : Yes

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ELECTRICAL
Voltage (max.): 250V
Current (max.): 4.7A (2 circuit/AWG#22)
Contact Resistance (max.): 10 Milliohms
Dielectric Withstanding Voltage: 800V AC
Insulation Resistance (min.): 1000 Megaohms

MECHANICAL
Crimp Terminal Insertion Force (max.): 9.8N
Crimp Terminal Retention Force (min.): 25.0N
Crimping Pull Out Force: 39.2N (min.) (AWG#22)
Housing Lock Strength: 80N (min.) (6-16 circuits)
Durability (max.): 30 Cycles

PHYSICAL
Housing:
  Receptacle – PBT
  Header – PA
Header Pin: Copper Alloy, Tin
Crimp Terminal: Copper Alloy, Tin
Header Pin: Copper Alloy, Tin
Operating Temperature: -40 to +105°C

Ordering Information

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www.molex.com/link/microlockplus.html

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