

# Micro-Lock Plus 1.25mm-Pitch Connector System >

Ideal for compact applications, the Micro-Lock Plus 1.25mm-Pitch Connector System provides electrical and mechanical reliability, design flexibility and secure mating retention to overcome challenges in high-temperature designs.

## FEATURES AND ADVANTAGES

### Provides secure mating retention.

#### Ensures proper mating

Wide positive latch that delivers audible click

### Strengthens lock for more reliable connection

Inner lock for dual-row version; outer lock for single-row version and delivers secure mating retention

### Meets other industry requirements.

#### Withstands harsh environments

Withstands up to 105°C operating temperature

### Offers design flexibility

A wire-to-wire solution and single and dual rows, 2 to 42 circuits, vertical and horizontal plug configurations

### Provides secure PCB retention and strain relief to solder joints

Robust metal solder tab

### Offers secure contact and terminal retention

Dual-contact terminal design

### Reduces assembly error that results in terminal back-outs; helps ensure secure terminal retention; can use existing mating parts

Optional terminal position assurance (TPA)

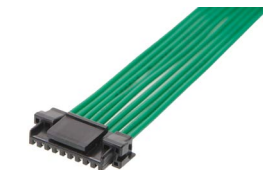
### Helps prevent dust and moisture ingress

Potting liquid (up to 6.00mm height)

Note: more potting information [here](#).



NEW  
FEATURE



Micro-Lock Plus  
1.25mm Wire-to-Wire/Wire-  
to-Board Single-Row  
Connector



Micro-Lock Plus  
1.25mm Wire-to-Wire/  
Wire-to-Board Dual-Row  
Connector



Micro-Lock Plus  
1.25mm TPA Retainer



Micro-Lock Plus  
1.25mm TPA Terminal

# Micro-Lock Plus 1.25mm-Pitch Connector System

## MARKETS AND APPLICATIONS

### Datacom

Servers

### Appliances

- White goods
- Gaming machines
- Drones
- Air conditioners
- Laser printers
- Vacuum cleaners
- Desktop PCs
- Power tools

### Automotive

- Steering wheel, paddle shift, combination switches
- Internal connection with other units



Air Conditioners



White Goods



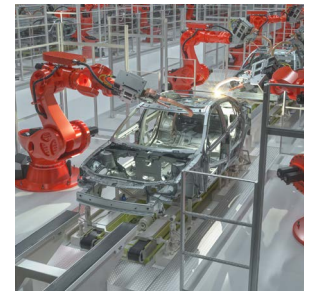
Steering Wheel Switches



Servers



Drones



Industrial Automation

## SPECIFICATIONS 1.25MM

### Reference Information

- Packaging: Reel (Terminal); Embossed (Header Assembly); Bag (Receptacle and Plug Housings);
- Mates with: Micro-Lock Plus Connectors
- 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)

### 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

Single

| AWG# | Amps [A]  |           |            |
|------|-----------|-----------|------------|
|      | 2-circuit | 8-circuit | 16-circuit |
| 26   | 3.6       | 2.4       | 2.2        |
| 28   | 3.1       | 2.1       | 1.8        |
| 30   | 2.8       | 1.8       | 1.5        |

Dual

| AWG# | Amps [A]  |            |            |            |            |
|------|-----------|------------|------------|------------|------------|
|      | 8-circuit | 16-circuit | 24-circuit | 32-circuit | 42-circuit |
| 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        |

