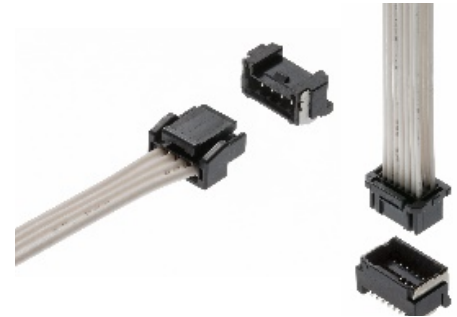


# Micro-Lock Plus 1.25mm-Pitch Wire-to-Board Connector System

**molex**<sup>®</sup>

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 automotive and other industry requirements



Micro-Lock 1.25mm-Pitch Wire-to-Board Connector System

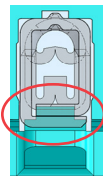
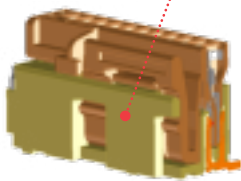
## Features and Benefits

### Variety of connector colors

Aids assembly via color coding

### Inner lock for dual-row versions; outer lock for single-row versions

Strengthens lock for more reliable connection



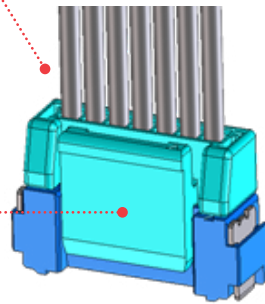
Expanded Terminal and Lance Contact Area

### Smallest 1.25mm-pitch connector with positive lock

Delivers secure mating retention without sacrificing compactness

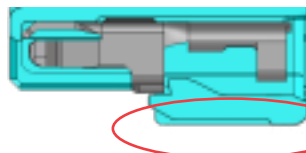
### Wide positive latch that delivers audible click

Provides secure mating retention. Ensures proper mating



### Dual contact terminal design

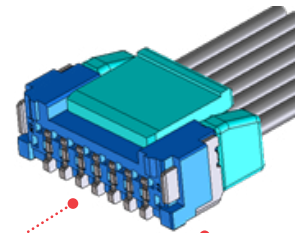
Offers secure contact and terminal retention



Increased Lance Thickness

### 2 to 42 circuits, single and dual rows, vertical and horizontal plug configurations

Offers design flexibility



### 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 automotive industry requirements. Withstands harsh environments

## Applications

### Automotive

- Steering wheel, paddle shift, combination switches
- Shifters
- Head-, rear-, side-mirror lights
- Internal connection with other units

### Industrial Automation

### Consumer

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



White Goods



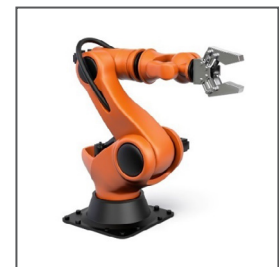
Steering Wheel Switches



Gaming Machines



Drones



Industrial Automation

# Micro-Lock Plus 1.25mm-Pitch Wire-to-Board Connector System



## Specifications

### REFERENCE INFORMATION

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

### ELECTRICAL

Voltage (max.): 50V  
Current (max.): 1.5A  
Contact Resistance on Crimped Portion (max.): 5 milliohms  
Dielectric Withstanding Voltage: 500V AC  
Insulation Resistance (min.): 100 Megohms

### MECHANICAL

Crimp Terminal Insertion Force (max.): 4.9N  
Crimp Terminal Retention to Housing (min.): 6.9N  
Mating Force: 9.8N (2 Circuit)  
Unmating Force: 0.3N (2 Circuit)  
Durability (min.): 30 Cycles

### PHYSICAL

Housing:  
Receptacle — PBT  
Header — PA9T  
Contact: Copper Alloy  
Plating (Receptacle):  
Contact Area — Tin  
Underplating — Nickel  
Plating (Header):  
Contact Area — Tin Bismuth  
Nail Area — Tin over Nickel  
Operating Temperature: -40 to +105°C

## Ordering Information

Series No.	Pitch (mm)	Component	Circuits	Rows	Color
<a href="#">505431</a>	-	Female Receptacle Terminal	-	-	-
<a href="#">505565</a>	1.25	Receptacle Housing	2 to 16	Single	Black
<a href="#">505567</a>		Right-Angle Header			
<a href="#">505568</a>		Vertical Header			
<a href="#">505432</a>	1.25	Dual-Row Receptacle Housing	8 to 42	Dual	Black
<a href="#">505433</a>		Dual-Row Straight Plug			
<a href="#">505448</a>		Dual-Row Right-Angle Plug			

[www.molex.com/link/microlockplus.html](http://www.molex.com/link/microlockplus.html)

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