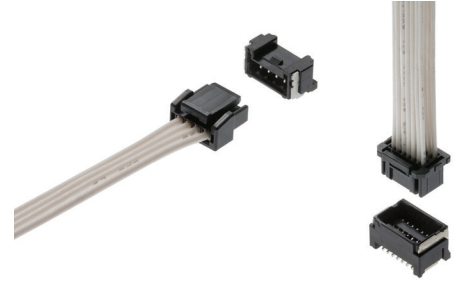


# Micro-Lock Plus 1.25mm-Pitch Wire-to-Board Connector System

**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

## Features and Benefits



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

### **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

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

Offers design flexibility

### **Withstands up to 105°C operating temperature**

Meets automotive industry requirements. Withstands harsh environments

### **Robust metal solder tabs**

Provides secure PCB retention and strain relief to solder joints

## Applications

### **Automotive**

Steering wheel, paddle shift, combination switches  
Shifters  
Head-, rear-, side-mirror lights

### **Industrial Automation**

### **Consumer**

White goods  
Gaming machines  
Drones  
Air conditioners  
Laser printers  
Vacuum cleaners



White Goods



Steering Wheel Switches



Gaming Machines



Drones



Industrial Automation

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## Specifications

### REFERENCE INFORMATION

Packaging: Reel (Terminal); Embossed  
(Header Assembly); Bag (Receptacle Housing);  
Mates with: Micro-Lock Plus Connectors and  
Crimp terminals  
Designed In: Millimeters  
RoHS: Yes

### ELECTRICAL

Voltage (max.): 50V  
Current (max.): 1.5A  
Contact Resistance (max.): 20 milliohms  
Dielectric Withstanding Voltage: 500V AC  
Insulation Resistance (min.): 100 Megohms

### MECHANICAL

Durability (max.): 30 Cycles

### PHYSICAL

Housing :  
Receptacle – PBT  
Header – PA9T  
Crimp terminal : Copper alloy, Tin or Au plating  
Header pin : Copper alloy, Tin Bismuth or Au plating  
(Single only)  
Operating Temperature: -40 to +105°C

## Ordering Information

Series No.	Pitch (mm)	Allowable current	Component	Circuits	Rows	Color
<a href="#">505431</a>	-	-	Female Receptacle Terminal	-	-	-
<a href="#">505565</a>	1.25	26 AWG 1.5A 28 AWG 1.0A 30 AWG 1.0A	Receptacle Housing	2 to 16	Single	Black
<a href="#">505567</a>			Right-Angle Header			
<a href="#">505568</a>			Vertical Header			
<a href="#">505432</a>			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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