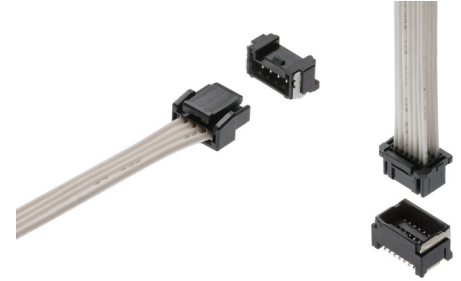


Micro-Lock Plus Wire-to-Board Connector System

molex

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

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

Micro-Lock Plus Wire-to-Board Connector System



Specifications 1.25mm

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

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

ELECTRICAL

Voltage (max.): 250V
Current (max.): 3.0A
Contact Resistance on Crimped Portion (max.): 5 Milliohms
Dielectric Withstanding Voltage: 500V 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: 29.4N (min.) (AWG#24)
Compulsion Withdrawal Force: 40N (min.) (4-5circuit)
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
Nail Area — Tin over Nickel
Operating Temperature: -40 to +105°C

Ordering Information

Series No.	Pitch (mm)	Allowable current	Component	Circuits	Rows	Color
505431	-	-	Female Receptacle Terminal	-	-	-
505565	1.25	26 AWG 1.5A 28 AWG 1.0A 30 AWG 1.0A	Receptacle Housing	2 to 16	Single	Black
505567			Right-Angle Header			
505568			Vertical Header			
505432			Dual-Row Receptacle Housing	8 to 42	Dual	Black
505433			Dual-Row Straight Plug			
505448	Dual-Row Right-Angle Plug					
505572	-		Female Receptacle Terminal	-	-	-
505570	2		Receptacle Housing	2 to 16	Single	Black
505575			Vertical Header			
505578			Right Angle Header			

www.molex.com/link/microlockplus.html

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