

Micro-Lock Plus 2.00-Pitch Connector System >

Ideal for compact applications, the Micro-Lock Plus Connector System provides electrical and mechanical reliability, excellent space savings and robust solutions in a high-temperature design to meet stringent industry requirements including those in harsh environments.

ADVANTAGES AND FEATURES

Provides more contact points within the same

The addition of the dual-row feature allows for a higher density of connections within the limited space where there is a need to connect a large number of wires or components.

Helps improve signal integrity

Additional contacts in the dual row connectors improve signal integrity by reducing crosstalk and increasing impedance control.

Provides secure PCB retention and strain relief to solder joints

The robust metal solder tab enhances the overall reliability and durability of the connection by securely holding the connector to the PCB and protecting the solder joints from mechanical strain.

Delivers secure mating retention and compactness

The connectors are designed to offer a positive-lock feature that keeps the connections firmly together by maintaining a small size, making them ideal for applications where reliability and space efficiency are key considerations.

Helps ensure proper mating connection

The wide positive latch with an audible click enhances the user experience by providing a reliable mating connection with a tactile and audible feedback that the connection is complete and properly engaged.

Number of Row	Single		Dual
Termination Style	Wire to Board	Wire to Wire	Wire to Board
Pitch	2.00mm	2.00mm	2.00mm
Circuit Range	2 to 16	2 to 9	4 to 26
Configuration	Vertical/Right angle	-	Vertical/Right angle
Plating	Tin/Gold	Tin	Tin
Current	4.7A (AWG #22)	4.7A (AWG #22)	4.5A (AWG #22)
	3.9A (AWG #24)	3.9A (AWG #24)	4.0A (AWG #24)
	2.9A (AWG #26)	2.9A (AWG #26)	3.4A (AWG #26)
Operating temperatures	-40 to 105°C	-40 to 105°C	-40 to 105°C



**NEW
FEATURE**
DUAL ROW
VERSION



Micro-Lock Plus 2.00mm Gold-Plated Terminal



Micro-Lock Plus 2.00mm Gold-Plated Single-Row Connector; 2 to 16 circuits



Micro-Lock Plus 2.00mm Wire-to-Board Connector

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MARKETS AND APPLICATIONS

Automotive

Steering wheels, paddle shifts,
combination switches

Internal connections with
other units

Lighting systems

Industrial automation equipment



Steering Wheel Switches



Air Conditioners



White Goods

Power for Data Center

Servers

Appliances

White goods

Gaming machines

Drones

Air conditioners

Laser printers

Vacuum cleaners

Desktop PCs

Power tools



Servers



Drones



Industrial Automation Equipment

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

MECHANICAL

Pitch: 2.00mm

Crimp Terminal Insertion Force (max.): 9.8N

Crimping Pull Out Force (min.): 39.2N (AWG 22)

Housing Lock Strength (min.):

Single row: 80N (6 to 16 circuits)

Dual row: 68.6N (12 to 26 circuits)

Durability (max.): 30 Cycles

ELECTRICAL

Voltage (max.): 250V AC rms / DC

Current (max.):

Single row: 4.7A (2-circuit/AWG 22)

Dual row: 4.5A (4-circuit/AWG 22)

Circuit Range:

Single row: 2 to 16

Dual row: 4 to 26

Contact Resistance (max.): 10 Milliohms

Dielectric Withstanding Voltage: 800V AC

Insulation Resistance (min.): 1000 Megaohms

PHYSICAL

Housing: Receptacle-PBT

Header-PA

Header Pin:

Single row: Brass, Tin and Gold

Dual row: Brass and Tin

Crimp Terminal:

Single row: Copper Alloy, Tin and Gold

Dual row: Copper Alloy and Tin

Operating Temperature: -40 to +105 °C

SINGLE/WIRE-TO-BOARD

AWG	2-circuits Current (A)	8-circuits Current (A)	16-circuits Current (A)
22	4.7	3.5	3.4
24	3.9	3.1	3.0
26	2.9	2.7	2.6

SINGLE/WIRE-TO-WIRE

AWG	2-circuits Current (A)	6-circuits Current (A)	9-circuits Current (A)
22	4.7	4.0	3.4
24	3.9	3.1	3.0
26	2.9	2.7	2.6

DUAL/WIRE-TO-BOARD

AWG	4-circuits Current (A)	8-circuits Current (A)	16-circuits Current (A)	26-circuits Current (A)
22	4.5	3.5	3.0	2.8
24	4.0	3.1	2.6	2.4
26	3.4	2.6	2.1	2.0

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ORDERING INFORMATION

CRIMP TERMINALS

Part Number	Pitch (mm)	Component	Plating	AWG
5055721000	2.00	Receptacle Crimp Terminal	Tin	22 24 26
5055721100			Gold, 0.10µm	
5055721200			Gold, 0.38µm	
5055721300			Gold, 0.76µm	
2137201000		Wire-to-Wire Plug Crimp Terminal	Tin	

HOUSINGS

Series Number	Pitch (mm)	Component	Circuits	Rows
505570	2.00	Receptacle Housing	2 to 16	Single
213719		Wire-to-Wire Plug Housing	2 to 9	
220200		Receptacle Housing	4 to 26	Dual

HEADERS

Part Number	Pitch (mm)	Component	Plating	AWG	Circuits	Rows	Cover Type
505575XX81	2.00	Vertical Header	Tin	22 24 26	2 to 16	Single	No
505575XX61			Gold, 0.10µm				No
505575XX21			Gold, 0.38µm				No
505575XX41			Gold, 0.76µm				No
505575XX71			Tin				Yes
505575XX91			Gold, 0.10µm				Yes
505575XX31			Gold, 0.38µm				Yes
505575XX51			Gold, 0.76µm				Yes
505578XX81		Right-Angle Header	Tin		4 to 26	Dual	No
505578XX61			Gold, 0.10µm				No
505578XX21			Gold, 0.38µm				No
505578XX41			Gold, 0.76µm				No
220201XX71		Vertical Header	Tin				No
220201XX81							Yes
220205XX71		Right-Angle Header					No

*Allowable current is different for each wire gauge by combination.
 * Circuit size (02~16) will go into XX

www.molex.com/link/microlockplus.html