DATASHEET

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

Offers design flexibility
Single-row plug in vertical and horizontal configuration, 2 to 16 circuits

Helps prevent whiskering for a clean and uninterrupted signal. Supports terminal ruggedness and reliability
SMT terminal

Provides secure PCB retention and strain relief to solder joints
Robust metal solder tab

Withstands harsh environments
Low-halogen and high-temperature capability

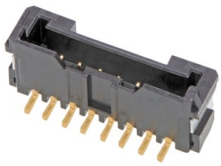
Delivers secure mating retention without sacrificing compactness
2.00mm-pitch connector with positive lock

Strengthens lock for more reliable connections
Outer lock

Provides secure mating retention and helps ensure proper mating connection
Wide positive latch with an audible click

Configuration	Vertical/ Right Angle
Plating	Tin/Gold
Current	4.7A (AWG #22) 3.9A (AWG #24) 2.9A (AWG #26)
Operating temperatures	-40 to 105°C
Circuit Range	2 to 16

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



Micro-Lock Plus 2.00mm Terminal

NEW FEATURE
GOLD-PLATED VERSION

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

DATASHEET

Micro-Lock Plus 2.00-Pitch Connector System ›

MARKETS AND APPLICATIONS

Datacom
Servers

Consumer
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

Industrial automation equipment

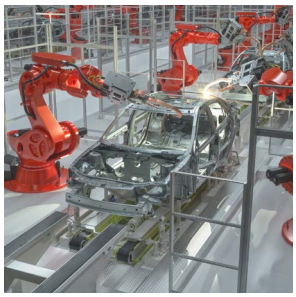
Air Conditioners

White Goods

Steering Wheel Switches

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

ELECTRICAL

Voltage (max.): 250V
Current (max.): 4.7A (2 circuit/AWG 22)
Contact Resistance (max.): 10 Milliohms
Dielectric Withstanding Voltage: 800V 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: 39.2N (min.) (AWG 22)
Housing Lock Strength: 80N (min.) (6 to 16 circuits)
Durability (max.): 30 Cycles

PHYSICAL

Housing:
Receptacle–PBT
Header–PA
Header Pin: Brass, Tin and Gold
Crimp Terminal: Copper Alloy, Tin and Gold
Operating Temperature: -40 to +105˚C

AWG#	Amps [A]		
	2-circuit	8-circuit	16-circuit
22	4.7	3.5	3.4
24	3.9	3.1	3.0
26	2.9	2.7	2.6

Micro-Lock Plus 2.00-Pitch Connector System ›

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	

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				No
505578XX61			Gold, 0.10µm				No
505578XX21			Gold, 0.38µm				No
505578XX41			Gold, 0.76µm				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

Order No. 987651-4888 Rev. 8 USA/0k/GF/2023.09