

Micro-Lock Plus 1.25mm-Pitch Connector System

Ideal for compact applications, the Micro-Lock Plus 1.25mm-Pitch Connector System provides electrical and mechanical reliability, design flexibility and secure mating retention to overcome challenges in high-temperature designs.

FEATURES AND ADVANTAGES

Provides secure mating retention.

Ensures proper mating

Wide positive latch that delivers audible click

Strengthens lock for more reliable connection

Inner lock for dual-row version; outer lock for single-row version and delivers secure mating retention

Meets other industry requirements.

Withstands harsh environments

Withstands up to 105°C operating temperature

Offers design flexibility

A wire-to-wire solution and single and dual rows, 2 to 42 circuits, vertical and horizontal plug configurations

Provides secure PCB retention and strain relief to solder joints

Robust metal solder tab

Offers secure contact and terminal retention

Dual-contact terminal design

Reduces assembly error that results in terminal back-outs; helps ensure secure terminal retention;

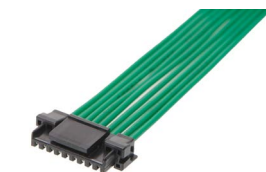
can use existing mating parts

Optional terminal position assurance (TPA)

Helps prevent dust and moisture ingress

Potting liquid (up to 6.00mm height)

Note: more potting information [here](#).



Micro-Lock Plus
1.25mm Wire-to-Wire/Wire-
to-Board Single-Row
Connector



Micro-Lock Plus
1.25mm Wire-to-Wire/
Wire-to-Board Dual-Row
Connector



Micro-Lock Plus
1.25mm TPA Retainer



Micro-Lock Plus
1.25mm TPA Terminal

**NEW
FEATURE**

Micro-Lock Plus 1.25mm-Pitch Connector System

MARKETS AND APPLICATIONS

Datacom

Servers

Appliances

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



Air Conditioners



White Goods



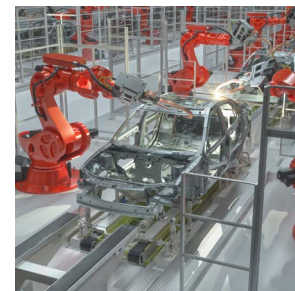
Steering Wheel Switches



Servers



Drones



Industrial Automation

SPECIFICATIONS 1.25MM

Reference Information

Packaging: Reel (Terminal);
Embossed (Header Assembly);
Bag (Receptacle and Plug Housings);
Mates with: Micro-Lock Plus Connectors
Designed In: Millimeters
RoHS: Yes
Low Halogen: Yes *Depends on series number

Electrical

Voltage (max.): 50V
Current (max.): 3.6A/Single (2 circuit/AWG 26)
2.4A/Dual (8 circuit/AWG 26)
Contact Resistance (max.): 20 milliohms
Dielectric Withstanding Voltage: 500V AC
Insulation Resistance (min.): 100 Megohms

Mechanical

Durability (max.): 30 Cycles
Crimp Terminal Insertion Force (max.): 4.9N
Crimp Terminal Retention Force (min.): 9.8N
Crimping Pull Out Force: 19.6N (min.) (AWG 26)
Housing Lock Strength: 68.6N(min.) (Single 14-16 circuits) / 98.0N(min.) (Dual 38-42 circuits)

Physical

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

Single

AWG#	Amps [A]		
	2-circuit	8-circuit	16-circuit
26	3.6	2.4	2.2
28	3.1	2.1	1.8
30	2.8	1.8	1.5

Dual

AWG#	Amps [A]				
	8-circuit	16-circuit	24-circuit	32-circuit	42-circuit
26	2.4	1.8	1.7	1.6	1.5
28	2.1	1.6	1.5	1.4	1.3
30	1.8	1.4	1.3	1.2	1.1

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ORDERING INFORMATION

Series No.	Pitch (mm)	Component	Plating	AWG
505431	1.25	Receptacle Terminal	Tin/Gold	26
214524		Wire-to-Wire Plug Crimp Terminal	Tin	28
214529		TPA Crimp Terminal		30

Series No.	Pitch (mm)	Component	Circuits	Rows	Cover Type
505565	1.25	Receptacle Housing	2 to 16	Single	No
505432			8 to 42	Dual	
214525		Wire-to-Wire Plug Housing	2 to 9	Single	
214526		TPA Receptacle Housing		Dual	
214527					

Series No.	Pitch (mm)	Component	Circuits	Plating	Rows	Cover Type
505567	1.25	Right-Angle Header	2 to 16	Tin/Gold	Single	No
505568		Vertical Header				Yes (-xx31, -xx51, -xx71, -xx81)
505448		Right-Angle Header	8 to 24		Dual	No
505433		Vertical Header				Yes (-xx31, -xx51, -xx81, -xx91) No (-xx21, -xx41, -xx61, -xx71)

*Allowable current is different by combination

www.molex.com/link/microlockplus.html