

Micro-Lock Plus Connector System >

Ideal for compact applications, the Micro-Lock Plus Connector System provides electrical and mechanical reliability in a high-temperature design that meets other industry requirements

FEATURES AND ADVANTAGES

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

Strengthen lock for more reliable connection

Withstands up to 105°C operating temperature

Meets other industry requirements. Withstands harsh environments

Single and dual rows, 2 to 42 circuits, vertical and horizontal plug configurations

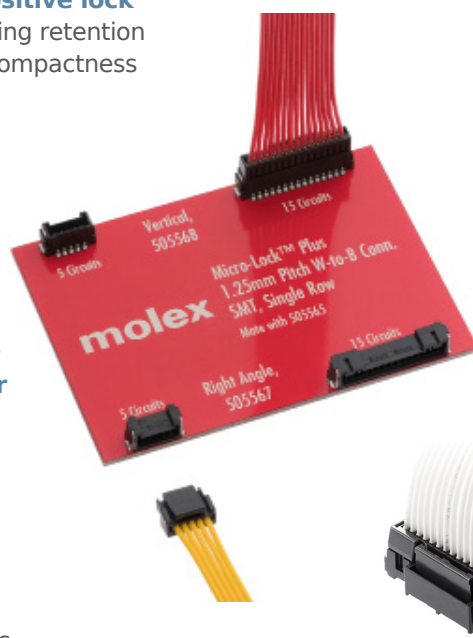
Offer design flexibility

Robust metal solder tabs

Provide secure PCB retention and strain relief to solder joints

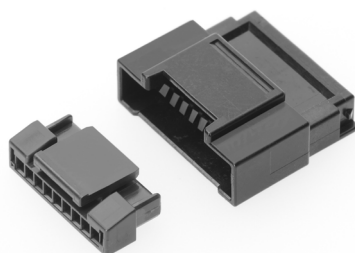
Dual-contact terminal design

Offers secure contact and terminal retention

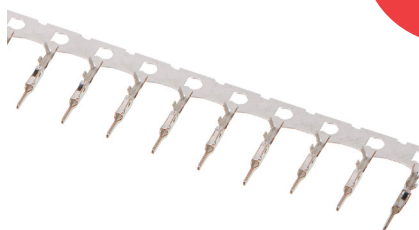


Micro-Lock Plus 1.25mm Wire-to-Board Connector

**NEW
FEATURE
WIRE-TO-WIRE**



Micro-Lock Plus 1.25mm Wire-to-Wire Single-Row Connector; 2 to 9 circuits



Micro-Lock Plus 1.25mm Terminal

ORDERING INFORMATION

Series Number	Pitch (mm)	Component	Plating	AWG/Allowable Current (current rating max.- two circuits)	Circuits	Rows	Cover Type
214525	1.25	Wire-to-Wire Plug Housing	Tin	26/ 3.2A 28/ 2.7A 30/ 2.2A	2 to 9	Single	-
214524	1.25	Wire-to-Wire Plug Crimp Terminal	Tin		-	-	-

Micro-Lock Plus Connector System

FEATURES AND ADVANTAGES

Single-row plug in vertical and horizontal configurations, 2 to 16 circuits

Offer design flexibility

SMT terminals

Prevent whiskering for a clean and uninterrupted signal. Supports terminal ruggedness and reliability

Robust metal solder tabs

Provide secure PCB retention and strain relief to solder joints

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

Low-halogen and high-temperature capabilities

Withstand harsh environments

2.00mm-pitch connector with positive lock

Delivers secure mating retention without sacrificing compactness

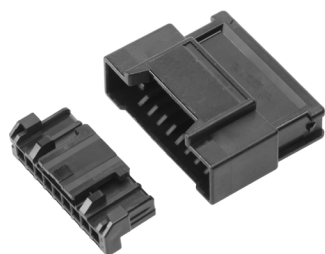
Wide positive latch that delivers audible click

Provides secure mating retention. Ensures proper mating

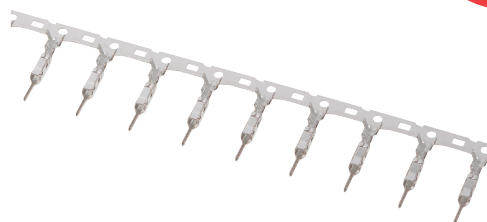
Outer lock

Strengthens lock for more reliable connection

**NEW
FEATURE**
WIRE-TO-WIRE



Micro-Lock Plus 2.00mm Wire-to-Wire Single-Row Connector; 2 to 9 circuits



Micro-Lock Plus 2.00mm Terminal

ORDERING INFORMATION

Series Number	Pitch (mm)	Component	Plating	AWG/Allowable Current (current rating max.- two circuits)	Circuits	Rows	Cover Type
213719	2.00	Wire-to-Wire Plug Housing	Tin	22/ 4.7A 24/ 3.9A 26/ 2.9A	2 to 9	Single	-
213720	2.00	Wire-to-Wire Plug Crimp Terminal	Tin		-	-	-

Micro-Lock Plus 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



Air Condition



White Goods



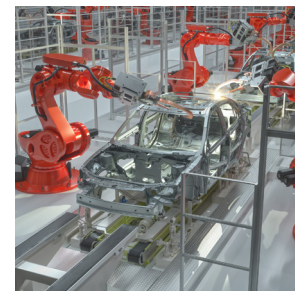
Steering Wheel Switches



Servers



Drones



Industrial Automation

SPECIFICATIONS 1.25MM

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 *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)
Durability (max.): 30 Cycles

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

Micro-Lock Plus Connector System

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.) (6-16 circuits)
Durability (max.): 30 Cycles

PHYSICAL

Housing:
Receptacle—PBT
Header—PA
Header Pin: Copper Alloy, Tin
Crimp Terminal: Copper Alloy, Tin
Header Pin: Copper Alloy, Tin
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 Connector System

ORDERING INFORMATION

Series No.	Pitch (mm)	Component	Plating	AWG/Allowable Current*	Circuits	Rows	Cover Type
505431-1000	1.25	Receptacle Terminal	Tin	26 28 30	-	-	-
505431-1100		Receptacle Terminal	Gold, 0.10µm		-	-	-
505431-1200		Receptacle Terminal	Gold, 0.38µm		-	-	-
505431-1300		Receptacle Terminal	Gold, 0.76µm		-	-	-
505565-XX01		Receptacle Housing	-		2 to 16	Single	No
505567-XX31		Right-Angle Header	Gold, 0.38µm				No
505567-XX51		Right-Angle Header	Gold, 0.76µm				No
505567-XX71		Right-Angle Header	Tin-Bismuth				No
505567-XX81		Right-Angle Header	Gold, 0.10µm				No
505568-XX31		Vertical Header	Gold, 0.38µm				Yes
505568-XX51		Vertical Header	Gold, 0.76µm				Yes
505568-XX71		Vertical Header	Tin-Bismuth				Yes
505568-XX81		Vertical Header	Gold, 0.10µm				Yes
505432-XX01		Receptacle Housing	-		8 to 42	Dual	No
505433-XX21		Vertical Header	Gold, 0.38µm				No
505433-XX31		Vertical Header	Gold, 0.38µm				Yes
505433-XX41		Vertical Header	Gold, 0.76µm				No
505433-XX51		Vertical Header	Gold, 0.76µm				Yes
505433-XX61		Vertical Header	Gold, 0.10µm				No
505433-XX71		Vertical Header	Tin-Bismuth				No
505433-XX81		Vertical Header	Tin-Bismuth				Yes
505433-XX91		Vertical Header	Gold, 0.10µm				Yes
505448-XX31		Right-Angle Header	Gold, 0.38µm				No
505448-XX51		Right-Angle Header	Gold, 0.76µm				No
505448-XX71		Right-Angle Header	Tin-Bismuth				No
505448-XX91		Right-Angle Header	Gold, 0.10µm				No
505572-1000	2.00	Receptacle Terminal	Tin	22 24 26	-	-	-
505570-XX01		Receptacle Housing	-		2 to 16	Single	No
505578-XX71		Right-Angle Header	Tin				No
505575-XX71		Vertical Header	Tin				No
505575-XX81		Vertical Header	Tin				Yes

*Allowable current is different for each wire gauge by combination.

www.molex.com/link/microlockplus.html