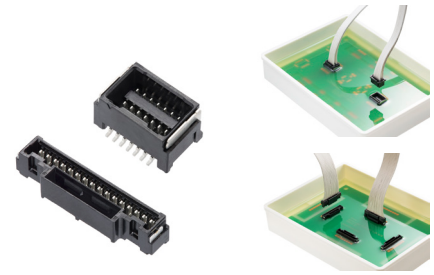


Micro-Lock Plus 1.25mm Pitch Vertical Header with Potting Capability

molex

One of the smallest wire-to-board “potting” connectors, with 3.00mm- (single-row) and 6.00mm (dual-row) high potting material to safeguard contact and latch areas in applications requiring environmental protection



Features and Advantages

Withstands up to 105°C operating temperatures

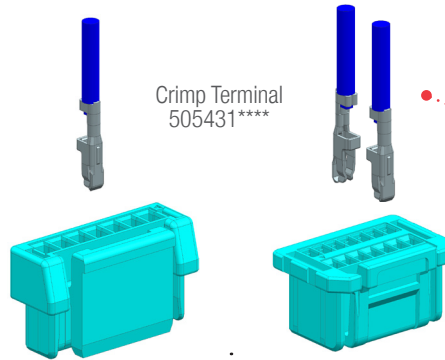
Meets the extended temperature requirements of various industries and withstands harsh environments

Micro-Lock Plus 1.25mm Pitch Vertical Header with Potting Capability (view of board with the connector mounted and potting liquid)

Tin-Bismuth terminals

Prevents whiskering for a clean and uninterrupted signal; supports terminal ruggedness and reliability

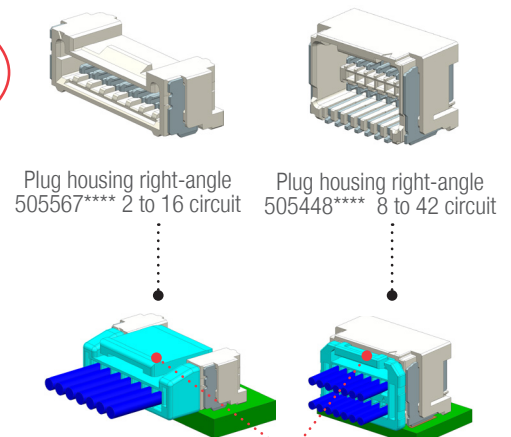
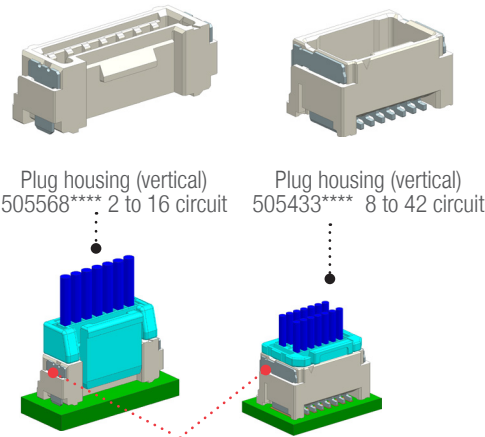
Receptacle housing
505565**** 2 to 16 circuit
204532**** (low halogen) 2 to 16 circuit



Receptacle housing
505432**** 8 to 42 circuit
204523**** (low halogen) 4 to 14 circuit

Plug housing (vertical)
205957**** (low halogen) 2 to 16 circuit

Plug housing (vertical)
207760**** (low halogen) 4 to 14 circuit



Robust metal solder tabs

Provides secure PCB retention and strain relief to solder joints

Smallest 1.25mm-pitch vertical header with positive lock and potting capability

Delivers secure mating retention and environmental protection without sacrificing compactness

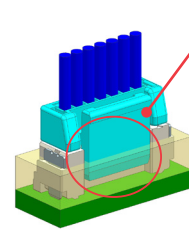
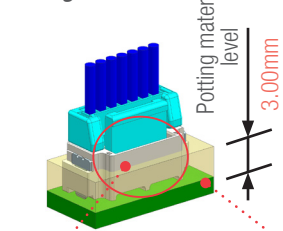
Wide positive latch that delivers audible click

Offers contact assurance and secure mating retention

Micro-Lock Plus 1.25 Vertical Header (single-row)

Potting version

Normal version



Positive lock immersed in potting material

Added walls to protect positive lock from being immersed in potting material Provides durability

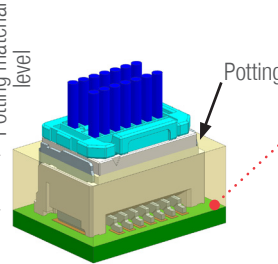
Potting liquid (up to 3.00mm height) Prevents ingress of dust and moisture



Potting version vs Normal version

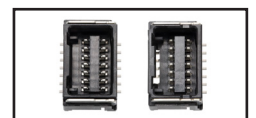
Micro-Lock Plus 1.25 Vertical Header (dual-row)

6.00mm Max. Potting material level

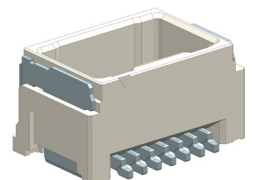
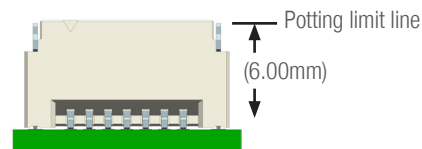


Potting liquid

(up to 6.00mm height) Prevents ingress of dust and moisture



Potting version vs Normal version



Micro-Lock Plus 1.25mm Pitch Vertical Header with Potting Capability



Markets and Applications

Industrial

- Power tools
- Test equipment
- Robots
- Factory automation
- Drones
- Vending machines



Power tool



Drone



Refrigerator

Consumer

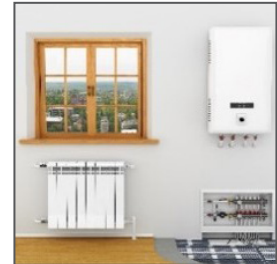
- Refrigerators
- Air conditioners
- Hot water gas heaters



Vending machine



Air conditioner



Hot water gas heater

Specifications

REFERENCE INFORMATION

- Reference Information
- Packaging: Embossed (header assembly)
- Mates With: Micro-Lock Plus Connectors
- Designed In: Millimeters
- RoHS: Yes
- Low halogen: Yes

ELECTRICAL

- Voltage (max.): 50V
- Current (max.): 3.6A (2 circuit/26 AWG) (single-row)
2.5A (4 circuit/26 AWG) (dual-row)
- Contact Resistance (max.): 20 milliohms
- Dielectric Withstanding Voltage: 500V AC
- Insulation Resistance (min.): 100 Megohms

Current derating reference information (single-row)

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

MECHANICAL

- Crimp Terminal Insertion Force (max.): 4.9N
- Crimp Terminal Retention Force (min.): 9.8N
- Crimping Pull Out Force (min.): 19.6N (26 AWG)
- Housing Lock Strength (min.):
58.8N (14 to 16 circuits) (single-row)
49.0N (14 circuits) (dual-row)
- Durability (max.): 30 cycles

PHYSICAL

- Header Housing – PA
- Header Pin: Copper Alloy, Tin-Bismuth plating
- Operating Temperature: -40 to +105°C

Current derating reference information (dual-row)

AWG#	Amps (A)		
	4-Circuit	8-Circuit	14-Circuit
26	2.5	2.4	2.0
28	2.2	2.1	1.7
30	1.9	1.8	1.5

Micro-Lock Plus 1.25mm Pitch Vertical Header with Potting Capability



Ordering Information

NEW 1.25 Micro-Lock Plus connectors with potting capability

Series No.	Pitch (mm)	Component	Circuits	Rows	Color*	Minimum Order Quantity (MOQ)
205957	1.25	Vertical Header with potting capability (Low Halogen)	2 to 16	Single	Black	Refer to SAP
204532		Receptacle Housing (Low Halogen)	2 to 16	Single	Black	Refer to SAP
207760		Vertical Header with potting capability (Low Halogen)	4 to 14	Dual	Black	Refer to SAP
204523		Receptacle Housing (Low Halogen)	4 to 14	Dual	Black	Refer to SAP

Existing 1.25 Micro-Lock Plus connectors without potting capability

Series No.	Pitch (mm)	Component	Circuits	Rows	Color*	Minimum Order Quantity (MOQ)
505568	1.25	Vertical Header	2 to 16	Single	Black	Refer to SAP
505567		Right-angle Header	2 to 16	Single	Black	Refer to SAP
505565		Receptacle Housing	2 to 16	Single	Black	Refer to SAP
505433		Vertical Header	8 to 42	Dual	Black	Refer to SAP
505448		Right-angle Header	8 to 42	Dual	Black	Refer to SAP
505432		Receptacle Housing	8 to 42	Dual	Black	Refer to SAP

Existing 1.25 Micro-Lock Plus crimp terminal

Series No.	Pitch (mm)	Component	Circuits	Rows	Color*	Minimum Order Quantity (MOQ)
505431		Female Receptacle Terminal for 1.25	-	-	-	Refer to SAP

*Black housing color is standard. For non-standard color housing option, please contact Molex for more details.

www.molex.com/link/microlockplus.html

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