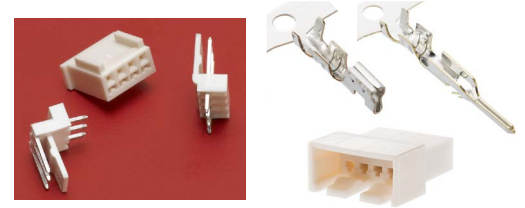


# Mini-Latch 2.50mm Wire-to-Board/ Wire-to-Wire Connector System

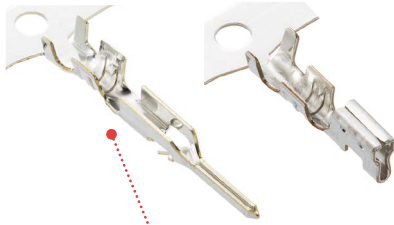
**molex**

Ideal for compact applications, the Mini-Latch 2.50mm Wire-to-Board/Wire-to-Wire Connector System provides electrical and mechanical reliability in a high-temperature design that meets consumer and industrial application requirements



*Mini-Latch 2.50mm Wire-to-Board/  
Wire-to-Wire Connector System*

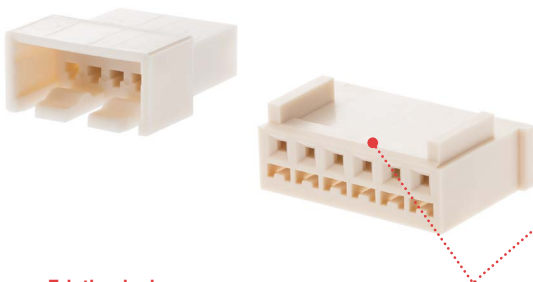
## Features and Advantages



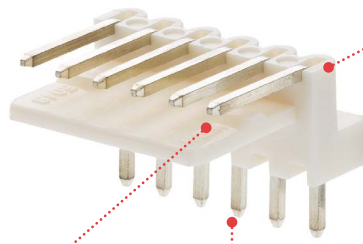
**Housing lance fastened with terminal**  
Provides improved terminal retention

**Uses popular crimp terminals**  
Enables easy access to the crimp applicators as they are widely available in the market

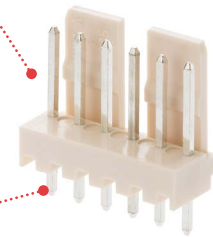
**2 to 15 circuits, single-row plug in vertical and horizontal orientations, wire-to-board and wire-to-wire configurations**  
Offers design flexibility



**Friction lock**  
Provides secure mating retention of housing and header



**Through-hole square terminals**  
Provides ruggedness and reliability



**2.50mm-pitch connector**  
Provides space saving

**Polarizing features**  
Ensures mating in proper orientation

**RoHS compliance and high-temperature capabilities**  
Withstands harsh environments

## Markets and Applications

### Industrial Automation

Automation equipment

### Consumer

White goods

Gaming machines

Drones

Air conditioners

Laser printers

Vacuum cleaners

Desktop PCs

Power tools

### Automotive

Steering wheel, paddle shift, combination switches

Head-, rear- and side-mirror lights

Internal connection with other units



Drones



Gaming Machines



White Goods



Steering Wheel Switches



Industrial Automation

# Mini-Latch 2.50mm Wire-to-Board/ Wire-to-Wire Connector System

**molex**

## Specifications

### REFERENCE INFORMATION

Packaging: Reel (Terminal)  
Poly Bag (Header Assembly/Receptacle Housing)  
Mates With: Mini-Latch Connectors  
Use With: 51191/5240  
Terminal Used: 50802/5241  
Designed In: Millimeters  
RoHS: Yes  
Low Halogen: Yes

### ELECTRICAL

Voltage (max.): 250V  
Current (max.): 3.0A (22 AWG)  
Contact Resistance (max.): 20 milliohms  
Dielectric Withstanding Voltage: 1000V AC (1 minute)  
Insulation Resistance (min.): 1000 Megaohms

### MECHANICAL

Crimp Terminal Insertion Force (max.): 14.7N  
Crimp Terminal Retention Force (min.): 14.7N  
Crimping Strength (min.): 39.2N (22 AWG)  
Durability (max.): 30 Cycles

### PHYSICAL

Housing:  
Receptacle – PA66  
Header – PA66  
Contact: Phosphor, Bronze or Brass  
Plating (Receptacle):  
Contact Area — Pre-Tinned  
Plating (Header): Brass  
Contact Area — Tin over Copper  
Operating Temperature: -40 to +105°C

## Ordering Information

Series No.	Pitch (mm)	Component	Circuits	Rows	Color
<a href="#">50802</a>	2.50	Female Receptacle Terminal	-	-	-
<a href="#">5241</a>		Male Plug Terminal	-	-	-
<a href="#">51191</a>		Receptacle Housing	2 to 15	Single	Natural
<a href="#">5240</a>		Plug Housing			
<a href="#">5045</a>		Vertical Header			
<a href="#">5046</a>		Right-Angle Header			

[www.molex.com/link/mini-latch.html](http://www.molex.com/link/mini-latch.html)

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