

# CLIK-Mate™ Wire-to-Board Connector System

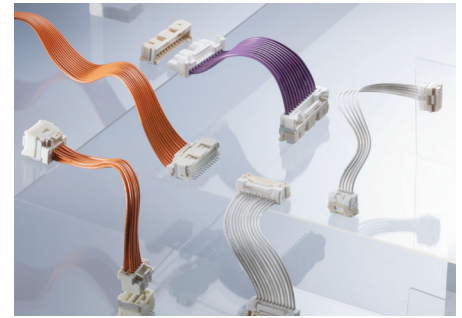
1.25, 1.50 and 2.00mm Pitch

**molex**®

The rugged CLIK-Mate™ wire-to-board system provides secure electrical contact, low insertion force and mating assurance in a wide variety of configurations, circuit sizes and current options

## Features and Benefits

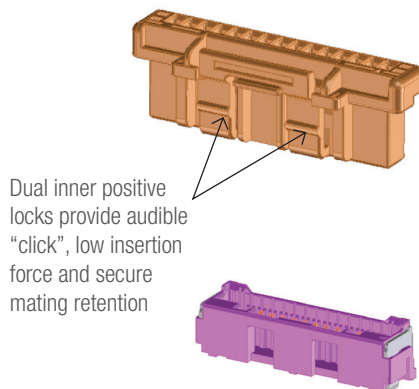
Positive inner locks	Enables simplified cable assembly for operators
Tuning-fork style contact design	Offers secure electrical contact and avoids terminal stubbing
Flat area for pick-and place	Facilitates board placement
Reinforced metal solder tabs	Provides secure PCB retention and solder joint strain relief



The versatile CLIK-Mate™ wire-to-board system

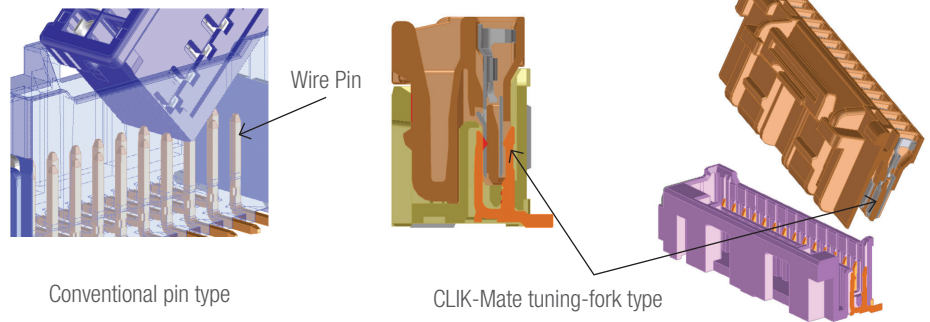
## Additional Product Features

### Reliable “Click” Feeling For Mating Assurance



Dual inner positive locks provide audible “click”, low insertion force and secure mating retention

### Protective Tuning-Fork Terminal Design



Conventional pin type

CLIK-Mate tuning-fork type

The tuning-fork terminal design on the CLIK-Mate system provides protection against terminal stubbing, which can occur with conventional pin types, along with low insertion force and secure contact.

## Applications

### Consumer

- Gaming machines
- LCD and TV Panels

### Automotive

- Infotainment
- Interior Mirrors

### Lighting

- LED Light Modules
- Office Down Lights

### Industrial

- Scanners
- Smart Grid Meters

### Medical

- Patient Monitors
- Surgical Equipment



Automotive



Medical

# CLIK-Mate™ Wire-to-Board Connector System

1.25, 1.50 and 2.00mm Pitch



## Specifications

### REFERENCE INFORMATION

Designed In: Millimeter

### ELECTRICAL

Voltage (max): 2.00mm pitch: 250V;  
1.50mm pitch: 100V; 1.25mm pitch: 50V  
Current (max): 2.00mm pitch: 3.0A;  
1.50mm pitch: 2.0A; 1.25mm pitch: 1.0A;  
Contact Resistance: 20 milliohms max.

### PHYSICAL

Contact: Copper alloy  
Plating: Tin and Gold  
Operating Temperature: -40 to +105°C

## Ordering Information

### 1.25mm Pitch

Plating	Crimp Terminal			Crimp Housing	SMT PCB Receptacles (Vertical)	SMT PCB Receptacles (Right Angle)
	Order No.	Wire Range AWG	Packaging	Order No.	Order No.	Order No.
Tin	<a href="#">502381-0000</a>	26-28	Reel	<a href="#">502380-**00</a>	<a href="#">502382-**70</a>	<a href="#">502386-**70</a>
Gold	<a href="#">502381-0010</a>				<a href="#">502382-**71</a>	<a href="#">502386-**71</a>

Replace \*\* with circuit number 02-15

### 1.50mm Pitch Crimp Terminal

Order No.	Wire Range AWG	Plating	Packaging
<a href="#">502579-0000</a>	24-28	Tin	Reel
<a href="#">502579-0100</a>	24-28	Tin	Bag
<a href="#">503429-0000</a>	26-30	Tin	Reel
<a href="#">502579-1000</a>	24-28	Gold	Reel
<a href="#">503429-1000</a>	26-30	Gold	Reel

### 1.50mm Pitch Crimp Housing

Order No. Single Row	Order No. Dual Row
<a href="#">502578-**00</a>	<a href="#">503149-**00</a>

\* Single row, replace \*\* with 02-15  
\* Dual row, replace \*\* with 08-34, even circuit sizes

### 1.50mm Pitch PCB Receptacles

Dual Row Without Peg, SMT				
Plating		Vertical		Right Angle
		Tin	<a href="#">503154-**90</a>	<a href="#">503148-**90</a>
Gold	With vacuum tape	<a href="#">505406-**60</a>	<a href="#">505406-**70</a>	
	Without vacuum tape			

\* For vertical, replace \*\* with 08-34, even circuit sizes  
\* For right angle, replace \*\* with 08-26, even circuit sizes

### 1.50mm Pitch PCB Receptacles

Single Row							
Plating	Tin	Vertical			Right Angle		
		SMT, Without peg		Through-Hole		Through-Hole	
		<a href="#">502584-**60</a>		With peg	Without peg	With peg	Without peg
		<a href="#">503159-**00</a>	<a href="#">503154-**10</a>	<a href="#">503175-**00</a>	<a href="#">503175-**10</a>		
Gold	Without peg						
	With vacuum tape	Without vacuum tape					
	<a href="#">505405-**60</a>	<a href="#">505405-**70</a>					

\* Replace \*\* with 02-15

### 2.00mm Pitch

Crimp Terminal				Crimp Housing	SMT PCB Receptacles (Vertical)	SMT PCB Receptacles (Right Angle)
Order No.	Wire Range AWG	Plating	Packaging	Order No.		
<a href="#">502438-0000</a>	22-26	Tin	Reel	<a href="#">502439-**00</a>	<a href="#">502443-**70</a>	<a href="#">502494-**70</a>

Replace \*\* with circuit number 02-15

# CLIK-Mate™ Wire-to-Board Connector System

1.25, 1.50 and 2.00mm Pitch



## Current Derating Information

CLIK-Mate™ Series Rated Current (MAX.)

AWG	1.25mm Pitch Single Row		
	2-circuits	8-circuits	15-circuits
	Amps [A]	Amps [A]	Amps [A]
26	2.5	1.5	1.0
28	2.0	1.5	1.0

AWG	1.50mm Pitch Single Row		
	2-circuits	8-circuits	15-circuits
	Amps [A]	Amps [A]	Amps [A]
24	3.0	2.0	2.0
26	3.0	2.0	1.5
28	2.5	1.5	1.0
30	2.0	1.5	1.0

AWG	1.50mm Pitch Dual Row						
	Vertical				Right Angle		
	8-circuits	16-circuits	26-circuits	34-circuits	8-circuits	16-circuits	26-circuits
	Amps [A]	Amps [A]	Amps [A]	Amps [A]	Amps [A]	Amps [A]	Amps [A]
24	2.5	2.0	2.0	2.0	2.0	2.0	1.0
26	2.0	1.5	1.5	1.5	2.0	1.5	1.0
28	2.0	1.5	1.0	1.0	1.5	1.5	1.0
30	1.5	1.0	1.0	1.0	1.5	1.0	1.0

AWG	2.00mm Pitch Single Row		
	2-circuits	8-circuits	15-circuits
	Amps [A]	Amps [A]	Amps [A]
22	4.0	3.0	3.0
24	3.5	2.5	2.0
26	3.0	2.0	1.5

- (1) Values are for REFERENCE ONLY.
- (2) Current deratings are based on not exceeding 30°C temperature.
- (3) PCB trace design can greatly affect temperature rise results in Wire-to-Board applications.
- (4) Data is for all circuits powered.

[www.molex.com/link/clikmate.html](http://www.molex.com/link/clikmate.html)