

CLIK-Mate™ Wire-to-Board Connector System

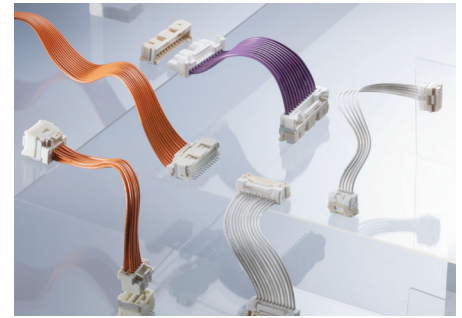
1.25, 1.50 and 2.00mm Pitch

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

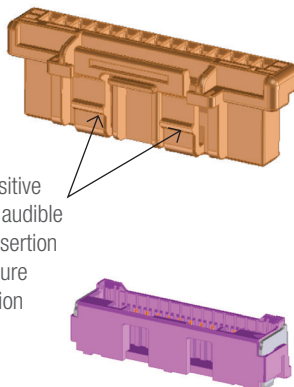


The versatile CLIK-Mate™ wire-to-board system

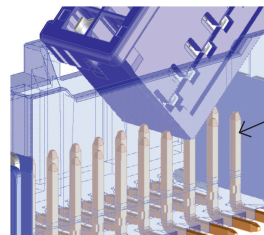
Additional Product Features

Reliable “Click” Feeling For Mating Assurance

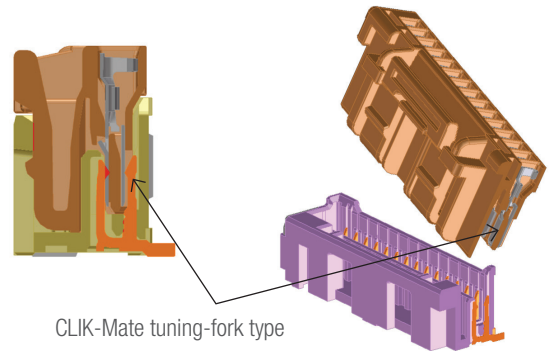
Dual inner positive locks provide audible “click”, low insertion force and secure mating retention



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	502381-0000	26-28	Reel	502380-**00	502382-**70	502386-**70
Gold	502381-0010				502382-**71	502386-**71

Replace ** with circuit number 02-15

1.50mm Pitch Crimp Terminal

Order No.	Wire Range AWG	Plating	Packaging
502579-0000	24-28	Tin	Reel
502579-0100	24-28	Tin	Bag
503429-0000	26-30	Tin	Reel
502579-1000	24-28	Gold	Reel
503429-1000	26-30	Gold	Reel

1.50mm Pitch Crimp Housing

Order No. Single Row	Order No. Dual Row
502578-**00	503149-**00

* 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	503154-**90	503148-**90
Gold	With vacuum tape	505406-**60	505406-**70	-
	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	
		502584-**60		With peg	Without peg	With peg	Without peg
		503159-**00	503154-**10	503175-**00	503175-**10		
Gold	Without peg						
	With vacuum tape	Without vacuum tape					
	505405-**60	505405-**70					

* 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.		
502438-0000	22-26	Tin	Reel	502439-**00	502443-**70	502494-**70

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