

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



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

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 |

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

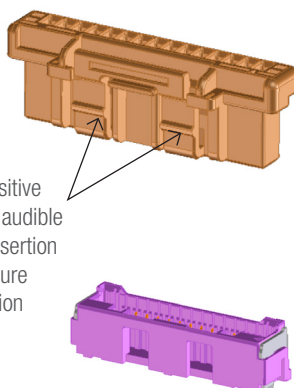


Medical

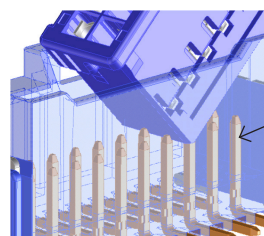
Additional Product Features

Reliable “Click” Feeling For Mating Assurance

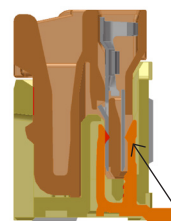
Dual inner positive locks provide audible “click”, low insertion force and secure mating retention



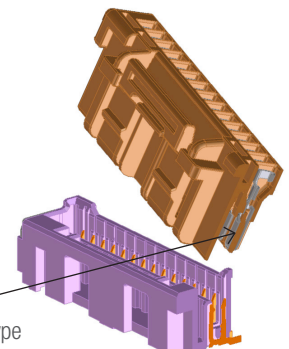
Protective Tuning-Fork Terminal Design



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.

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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:
 2.00mm pitch: -20 to +85°C
 1.50mm pitch: -40 to +85°C
 1.25mm pitch: -25 to +85°C
 * Contact Molex for high-temperature specifications

Ordering Information

1.25mm Pitch

| Plating | Crimp Terminal | | | Crimp Housing | PCB Receptacles (Vertical) | PCB Receptacles (Right Angle) |
|---------|-----------------------------|-------|-----------|-----------------------------|-----------------------------|-------------------------------|
| | Order No. | 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

| Component | | | | Single Row SMT | | Dual Row SMT | |
|-----------|-----------------|---------|------|---|---|---|-----------------------------|
| | | | | Vertical | Right Angle | Vertical | Right Angle |
| Order No. | Plug Housing | Plating | Tin | 502579-0000 (24 to 28 AWG), 502439-0000 (26 to 30 AWG) | | | |
| | Terminal (Reel) | | Gold | 502579-1000 (24 to 28 AWG), 502439-1000 (26 to 30 AWG) | | | |
| | PCB Receptacle | | Tin | 503159-**10 (-**00 with peg) | | 503154-**90 | |
| | | | Gold | 505405-**60 (With pick-and-place tape) 505405-**70 (Without pick-and-place tape) | 503175-**10 (-**00 with peg) | 505406-**60 (With pick-and-place tape) 505406-**70 (Without pick-and-place tape) | 503148-**90 |
| Circuits | | | | Replace ** with 02-15 | | Replace ** with 08-34 | |
| | | | | | | Replace ** with 08-26 | |

Replace ** with circuit number

2.00mm Pitch

| Crimp Terminal | | Crimp Housing | PCB Receptacles (Vertical) | PCB Receptacles (Right Angle) |
|--|-----------|-----------------------------|-----------------------------|-------------------------------|
| Order No. | Packaging | Order No. | | |
| 502438-0000 (22-26 AWG) | Reel | 502439-**00 | 502443-**70 | 502494-**70 |

Replace ** with circuit number 04-15

www.molex.com/link/clikmate.html