

# MicroTPA 2.00mm-Pitch Wire-to-Board and Wire-to-Wire Connector System

**molex**

Ideal for compact applications, the MicroTPA 2.00mm Wire-to-Board and Wire-to-Wire Connector System provides electrical and mechanical reliability in a high-temperature design that meets a diverse range of industry requirements

## Features and Advantages

### Uses popular crimp terminals

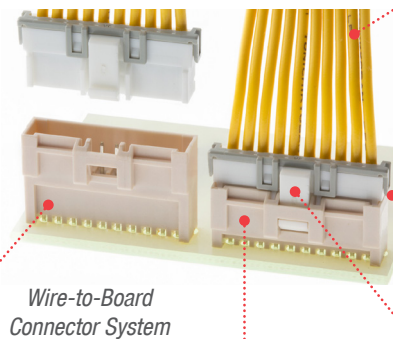
Readily available, wide tooling installation base in market

### Applicable cable

Terminal accepts wide range of wire sizes (22 to 28 AWG)

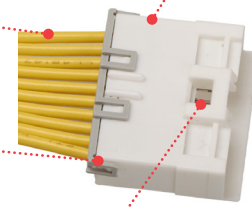
### 2 to 15 circuits, wire-to-wire connector system

The same receptacle housing mates with plug housing due to design flexibility



### TPA retainer

Ensures wire are fully inserted



### Positive lock

Lock structure to mate with harness and plug header. Good mating retention

### RoHS compliant and high-temperature capabilities

Withstands harsh environments

### Vertical through-hole high-wall header

Raised bottom and ledge allows potting material to cover the PC board in order to prevent water from entering the connector

### Vertical through-hole Header

All circuits from 2 to 15 circuits

### 2.00mm-pitch connector with positive lock

Delivers secure mating retention without sacrificing compactness

## Applications

### Consumers

- White goods
- Washing machine
- Air conditioners
- Laser printers
- Vacuum cleaners

### Automotive

- Steering wheel, paddle shift, combination switches
- Shifters
- Head-, rear- and side-mirror lights
- Internal connection with other units



White Goods



Steering Wheel Switches

# MicroTPA 2.00mm-Pitch Wire-to-Board and Wire-to-Wire Connector System

## Specifications

### REFERENCE INFORMATION

Packaging:  
Reel (Terminal)  
Tray (Header Assembly)  
Bag (Receptacle Housing)  
Mates With: MicroTPA Connectors (55487/55755)  
Used With: 51216 (Rec Housing)  
Used With: 51217 (Retainer)  
Used With: 59370 (Receptacle Terminal)  
Used With: 51227 (Plug Housing)  
Used With: 56086 (Plug Terminal)  
Designed In: Millimeters  
RoHS: Yes  
Low Halogen: No

### ELECTRICAL

Voltage (max.): 250V  
Current (max.): 2.5A (22 AWG)  
Contact Resistance (max.): 20 milliohms  
Dielectric Withstanding Voltage: 1000V AC (1 minute)  
Insulation Resistance (min.): 1000 Megohms

### MECHANICAL

Crimp Terminal Insertion Force (max.): 9.8N  
Crimp Terminal Retention Force (min.): 9.8N  
Pin Retention Force (min.): 9.8N  
Crimping Strength (min.): 44.1N (22 AWG)  
Durability (max.): 30 cycles

### PHYSICAL

Housing:  
Receptacle: PBTP  
Plug Housing: PBTP  
Header: PA66  
Terminal/Pin (plating)  
Receptacle: Phosphor Bronze (Pre-Tin)  
Plug: Phosphor Bronze (Pre-Tin)  
Header Pin: Brass (Pre-Tin)  
Operating Temperature: -40 to +105°C

## Ordering Information

Series No.	Pitch (mm)	Component	Circuits	Rows	Color
<a href="#">59370</a>	2.00	Female Receptacle Terminal	22 to 28 AWG	-	-
<a href="#">56086</a>		Male Plug Terminal	22 to 28 AWG	-	-
<a href="#">51216</a>		Receptacle Housing	2 to 15	Single	Natural
<a href="#">51217</a>		TPA Retainer			
<a href="#">51227</a>		Plug Housing			
<a href="#">55755</a>		Plug Vertical Header			
<a href="#">55487</a>		Plug Vertical Header (High-Wall version)			

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

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