INTRODUCTION

Smallest pitch Wire-to-Board connector with positive lock.

The new 1.00mm (.039") pitch wire-to-board connector system from Molex was developed for various connections in Flat Panel Displays (FPD). The compact, small-circuit size features of this system also make it ideal for other applications such as Notebook PCs and other compact devices.

The system is offered in both single and dual row versions. Friction and positive locks are offered for various application needs. Other features include mating guides, solder tabs and footprint compatibility with some competitive versions.

Specifications:

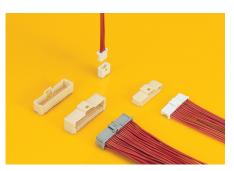
- **Reference Information** Designed In: mm
- Electrical

Voltage: 50V Current: 1.0A (28, 30 AWG), 0.8A (32 AWG) Contact Resistance: 20 milliohms max. Insulation Resistance: 100 Megohms min. Dielectric Strength: 250V AC/1 minute Terminal Retention Force: 4.9N (0.5kgf) min. **Durability: 30 cycles**

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Physical Operating Temperature: -40 to +85°C

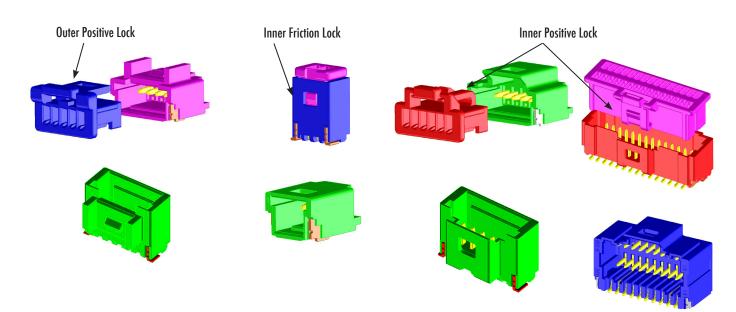
1.00mm (.039") Pitch **Pico-Clasp**[™] **Single and Dual Row** Wire-to-Board Connectors



FEATURES AND BENEFITS

FEATURES	BENEFITS			
Smallest pitch for positive lock Wire-to-Board crimp system	Provides space saving for mounting other components			
Inner positive lock (6-50 circuit sizes)	Prevents wire hooking			
	Blocks direct wire weight and prevents lock lever leaning			
	Strong mating retention and clear click feeling			
 Outer positive lock (3-5 circuit sizes) 	Strong mating retention and clear click feeling			
Low mating and unmating forces	Easy connector insertion and extraction			
Wide header variations	Provides customers with many choices and design flexibility			

Three Types of Locks



APPLICATIONS



Liquid Crystal Display (LCD) TV

Note PC

Other Compact Devices

SECTION MATRIX

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1.00mm (.039") Pitch **Pico-Clasp**[™] Single and Dual Row Wire-to-Board Connectors

	Description	Order No.	Circuits	Lock	Housing Material	Terminal Material / Plating	Packaging
	Terminal for Single Row	501334-0000		-	-	Phosphor Bronze / Pre-Tin	Reel
	Terminal for Dual Row	501193-0000				Phosphor Bronze / Gold over Nickel	
	Single Row Inner Lock Receptacle Housing	501330-XX00	2-5	Inner Friction	66 Nylon, UL 94V-0, White	-	Bag
			6-15	Inner Positive			
	Single Row Inner Lock Straight Header	501331-XX07	2-5	Inner Friction	46 Nylon, UL 94V-0, Off White	Phosphor Bronze / Tin over Nickel	Embossed Tape
			6-15	Inner Positive	6T Nylon, UL 94V-0, Off White		
	Single Row Inner Lock Right-Angle Header	501568-XX07	2-5	Inner Friction	Heat Resistance Nylon, UL 94V-0, Off White		
			6-15	Inner Positive			
	Single Row Outer Lock Receptacle Housing	501939-XX00	3-5	Outer Positive	66 Nylon, UL 94V-0, White	-	Bag
	Single Row Outer Lock Straight Header	501940-XX07			6T Nylon, UL 94V-0, Off White	Phosphor Bronze / Tin over Nickel	Embossed Tape
	Single Row Outer Lock Right-Angle Header	501953-XX07					
	Dual Row Inner Lock Housing Receptacle	501189-XX10	20, 30, 40, 50	Inner Positive	66 Nylon, UL 94V-0, White	-	Bag
	Dual Row Inner Lock Housing Receptacle (With Side Friction Lock)	501189-XX21			66 Nylon, UL 94V-0, Grey		
	Dual Row Inner Lock Straight Header (With Tape)	501190-XX17			6T Nylon, UL 94V-0, White	Phosphor Bronze / - Gold over Nickel	Embossed Tape
	Dual Row Inner Lock Straight Header	501190-XX27					
	Dual Row Inner Lock Right-Angle Header	501571-XX07			Heat Resistance Nylon, UL 94V-0, Off White		

*XX = Circuit size

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