

Pico-Clasp Wire-to-Board Connectors

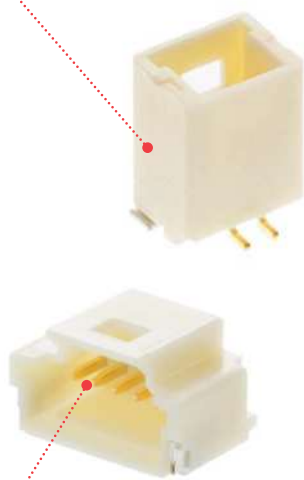
molex

Pico-Clasp 1.00mm pitch Wire-to-Board connectors offer a variety of mating styles and orientations plated in Tin or Gold to provide design flexibility in a vast array of compact applications. Newly added 0.38 and 0.76µm Gold Plated Versions.

Features and Advantages

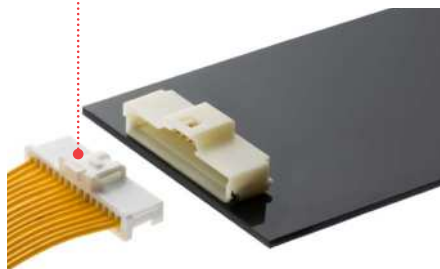
Inner Friction Lock

Space saving



Inner Positive Lock

Secure mating retention.
Easy to mate and unmate



Thick gold plating options (0.1, 0.38 and 0.76µm)

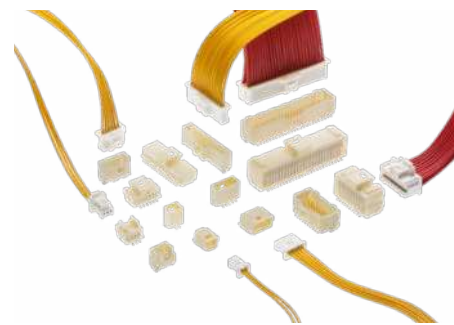
Superior reliability
and durability in harsh
environments

Smallest pitch for positive lock Wire-to-Board crimp System

Provides space savings for mounting
other components

SMT Mounting

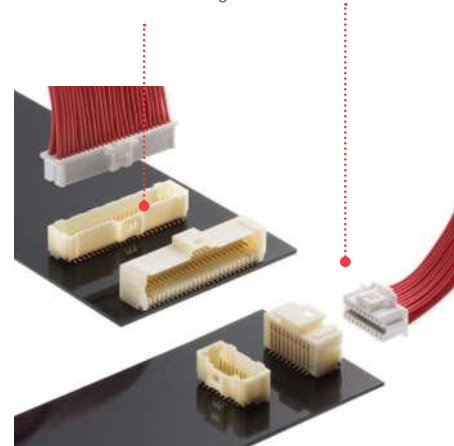
Provides assembly and cost
efficiencies. Automated assembly
reduces manual labor processes



Pico-Clasp Connectors in Single
and Dual-Row Configurations

Inner Positive Lock

Offers secure mating retention
with low mating and unmating
forces. Prevents wire tangling and
latch breakage



Applications

Consumer

- Drone, UAV
- Smart meter
- Air conditioner
- TV
- Mobile POS Terminals
- Any other innovative electronic devices



Mobile POS Terminals



Servo Motor



Drone

Medical

- Patient monitoring

Industrial

- Servo motor

Automotive

- Electronic module

Telecommunications / Networking

- Server



Patient Monitor



Automotive module



Server

Specifications

REFERENCE INFORMATION

Packaging: Terminals – Reel
Housings, Retainers – Bag
Headers – Emboss tape on reel
Designed In: Millimeters
RoHS: Yes
Glow Wire Compliant: No
Halogen Free: No

ELECTRICAL

Voltage (max.): 50V
Current (max.): See Derating information
Contact Resistance: 20 milliohms Max.
Dielectric Withstanding Voltage:
250V AC, 1 minute
Insulation Resistance:
100 Megaohms min.
AWG: 28, 30, 32
UL: 1571

MECHANICAL

Durability (min.): 30 cycles

PHYSICAL

Terminal: Phosphor Bronze
Housing: Nylon
Plating: Tin or 0.1/0.38/0.76µm Gold
Operating Temperature: -40 to +105°

Derating Information

SINGLE ROW

AWG#	Amps[A]			
	2-circuit	5-circuit	10-circuit	15-circuit
28	2.0	1.5	1.0	1.0
30	1.5	1.0	1.0	1.0
32	1.5	1.0	0.8	0.8

DUAL ROW

AWG#	Amps[A]	
	20-circuit	50-circuit
28	1.0	
30	1.0	
32	0.8	

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

Ordering Information

Circuit	1 or 2 Rows	Plating	Locking: Friction/ Positive	Vertical	Right Angle	Crimp Housing	Terminal	AWG
2 to 15	Single	Tin	2-5 circuit : Friction	501331	501568	501330	501334	28 to 32
		0.1µm Gold	6-15 : Positive Inner	504449	202396		501193-3000	
		0.38µm Gold		203556	203558		501193-6000	
		0.76µm Gold		203557	203559		501193-5000	
3 to 5	Single	Tin	Positive Outer	501940	501953	501939	501334	
		0.1µm Gold		501940	501953		501193-3000	
		0.38µm Gold		203560	203562		501193-6000	
		0.76µm Gold		203561	203563		501193-5000	
20, 30, 40, 50	Dual	0.1µm Gold	Positive Inner	501190	501571	501189	501193-3000	
		0.38µm Gold		203564	203566		501193-6000	
		0.76µm Gold		203565	203567		501193-5000	