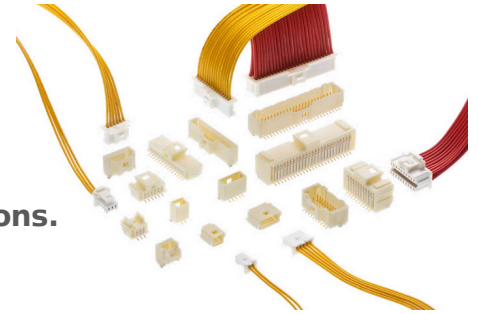


Pico-Clasp Wire-to-Board Connectors >

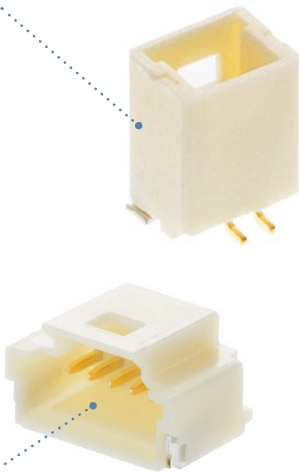
Pico-Clasp 1.00mm pitch Wire-to-Board connectors offer a variety of mating styles and orientations plated in Tin or Gold to provide design flexibility in a vast array of compact applications. Newly added 0.38 and 0.76µm Gold Plated Versions.



Pico-Clasp Connectors in Single and Dual-Row Configurations

Inner Friction Lock

Space saving

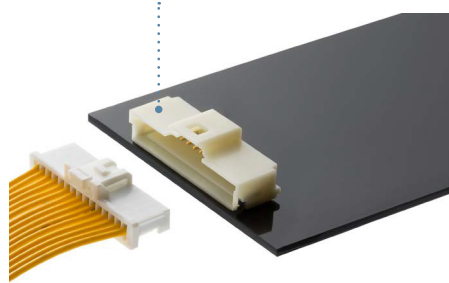


Thick gold plating options (0.1, 0.38 and 0.76µm)

Superior reliability and durability in harsh environments

Inner Positive Lock

Secure mating retention.
Easy to mate and unmate

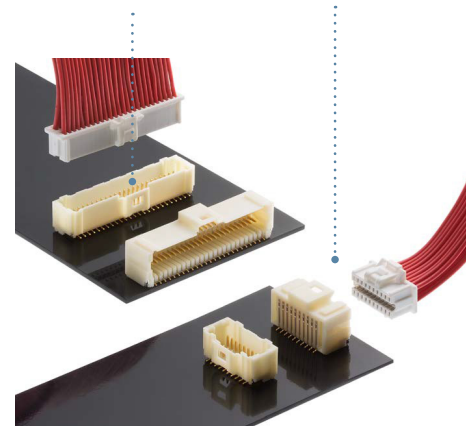


Smallest pitch for positive lock Wire-to-Board crimp System

Provides space savings for mounting other components

Inner Positive Lock

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



SMT Mounting

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

APPLICATIONS

Consumer

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

Medical

Patient monitoring

Industrial

Servo motor

Automotive

Electronic module

Telecommunications / Networking

Server



Mobile POS Terminals



Servo Motor



Drone



Patient Monitor



Automotive Module



Server

Pico-Clasp Wire-to-Board Connectors

SPECIFICATIONS: PLEASE REFER TO PRODUCT SPEC FOR MORE DETAILS

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	Dual	0.1µm Gold	Positive Inner	501190	501571	501189	501193-7000	
		0.38µm Gold		203564	203566		501193-9000	
		0.76µm Gold		203565	203567		501193-8000	

www.molex.com/link/picoclasp.html