

Molex Interconnect Solutions for Water Heater Systems

Enabling Safe, Efficient & Smart HVAC Heating Applications

Water heaters are Higher Efficiency , Compact Designs and Smart Connectivity by making Interconnect selection a critical design and sourcing decision.

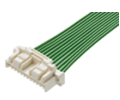
For Engineering teams, Connectors Directly impact Thermal performance , Reliability , Safety compliance and system Life span.

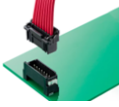
For sourcing teams, they drive Cost, Standardization , Supply Stability and Manufacturing Efficiency

TYPES OF HEATER			
			
STORAGE TANK WATER HEATER	TANKLESS (INSTANT) WATER HEATER	HYBRID WATER HEATER	HEAT PUMP WATER HEATER
Current: 10A- 30A Voltage : 120V- 400V	Current: 120A- 60A+ Voltage : 400V	Current: 15A-30A Voltage : 240V	Current: 15A-15A Voltage : 230V/400V

GLOBAL INDUSTRY TRENDS			
			
Tankless (On demand) High Power Density	Smart /IOT/ AI enabled Feature More Control Boards and sensors	Energy Efficient Electrification and Hybrid / Heat Pump Water Heater Growth	Harsh Environment Operation Heat / Moisture Exposure , Decarbonization, Sustainability

MOLEX SOLUTIONS FOR WATERHEATER SYSTEM

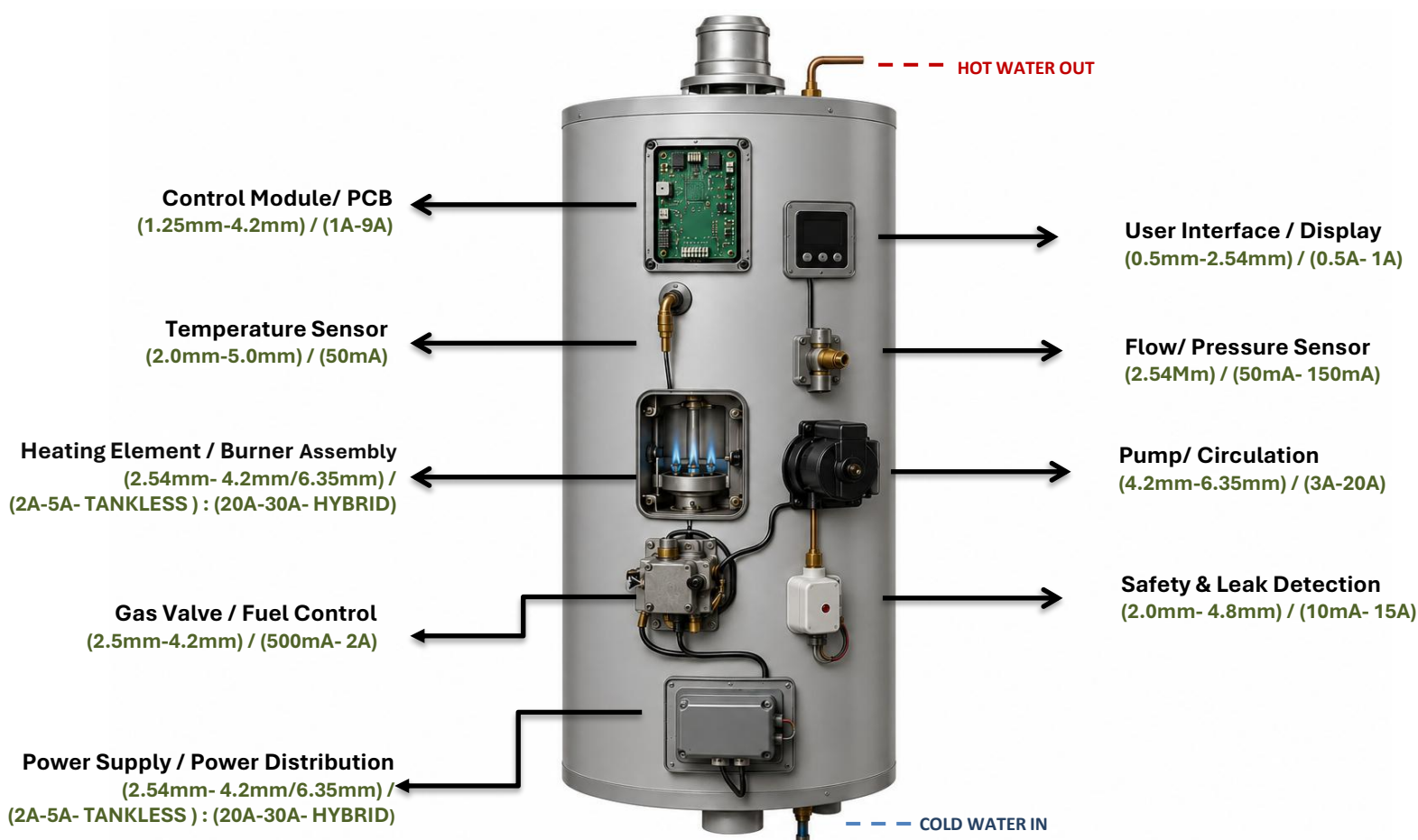
CP	Mini Lock	Micro Fit TPA	Spot-On	Micro Fit	Nano Fit	Mini Fit	Clikmate
							

Squba	Micro-One	MicroClasp	Mega-Fit	Ultra-Fit	MUO	Micro-Lock Plus	Picoblade
							

PRODUCT BENEFITS

	Potting-Capable Design		Color Coded		Secure Retention		Audible Click Sound
	UL 94 V-0 Rated		Glow wire Compliance		Thermal Stability		Dust tight and waterproof

Connector portfolio for Water Heater Systems



Product Name	Pitch	Glow Wire	UL 94 V-0	Secondary Lock	Plating	Connection Style		PCB Termination		Colors/ Keys	IP Rated
						W-to-B	W-to-W	SMT	Through Hole		
Pico Blade	1.25mm	--	•	--	Tin/Gold	•	--	•	--	--	--
Micro Lock Plus	1.25/1.50/2.0mm	--	•	--	Tin / Gold Flash	•	•	•	--	•	--
Clik Mate	1.25/1.5/2.0mm	--	•	--	Tin/Gold	•	--	•	•	--	--
Spot On	1.5, 2.0mm	--	•	•	Tin	•	•	•	•	•	--
Micro One	2.0mm	•	•	•	Tin	•	--	•	•	--	--
Mini Lock	2.5mm	•	•	•	Tin	•	--	--	--	•	--
CP	2.5/3.3/4.5mm	•	•	•	Tin/Gold	•	•	--	--	•	--
MUO	2.50mm	--	•	•		•	•	--	--	•	--
Nano Fit	2.5mm	•	•	•	Tin/Gold	•	•	•	•	•	--
Micro TPA	2.0mm	•	•	•	Tin/ Matte Tin/ Gold	•	•	•	•	•	--
Mini Fit FLB	4.2mm	•	•	•	Tin/Gold	•	•	•	•	•	IP67 Rated
Micro Fit+	3.00mm	•	•	•	Tin/ Gold	•	•	•	•	•	--
Mega Fit	5.7mm	•	•	•	Tin/Gold/Matte Tin	•	•	--	•	•	--
CP	6.5mm	•	•	•	Tin/Gold	•	•	--	--	•	--
MP Lock	187 in and 250 in	•	•	•	Tin/Nickel Plating	--	--	--	--	•	--
NTC	N/A	--	•	--	Nickel	--	--	--	--	--	--
Squba	1.8mm, 3.6mm	•	•	--	Tin	•	•	--	--	•	IP68 Rated

Available

•

Not Available

--

References: [Wire to Board Connectors](#)
[Fit Families](#)
[Glow Wire Offerings](#)

Discover More
Molex Solution For Appliances

