

## Gecko-SL 1.25mm pitch Screw-Lok Connectors

Secure & Robust Miniature Connectors for demanding applications

For applications that must not fail, Gecko-SL brings high-reliability connection at a miniature 1.25mm pitch. Fitted with screw-loks that are configured for Mate-Before-Lok, connection and disconnection is fast and simple to handle. An ideal choice for SWaP-C optimization (Size, Weight, Power and Cost).

Featuring cable-to-board, board-to-board and cable-to-cable in pin counts up to 50. Throughboard and Surface Mount designs for PCB flexibility are available, all packaged in Tape and Reel for automated assembly. Stainless steel screw-loks in both standard and reverse gender fixings (reverse fix) ensure a strong and secure connection.

Lightweight metal hoods give additional cable protection and shielding from radio frequency Interference (RFI). Individual pre wired contacts and full cable assembly options complete the range for prototyping and pre-production simplicity.

#### Features and Benefits

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2A per contact (all electrically loaded; 2.8A per individual contact) at 1.25mm pitch	Excellent current capacity for a miniature connector, saving PCB real estate
Compact design – significant space saving over Micro-D	Up to 45% smaller and up to 75% lighter over existing equivalent industry standards, ideal for avionics
Horizontal male through- board connectors	For additional board edge to cable connec- tion, with reduced total mated height
Mate before Lock in both standard and reverse fix screws	Quick and easy mating process
Low outgassing materials	Meets NASA and ESA requirements
Ready-made cable assemblies and pre wired contacts	Eliminate the tooling costs, training requirements and additional inspections
Robust design of 4 finger Beryllium Copper contact	Assures electrical contact in extreme shock and vibration conditions
Metal Backshells for cable and panel mount	Protect cables from wear and reduce RF / EM interference

#### **Key Applications**

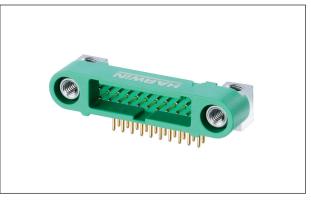
Aviation	Avionic controls, guidance systems, engine controls, radar and tracking
Motorsport & Electric Vehicles	Navigation, AI, GPS and tracking equipment, communications and telemetry, ERS controls
Space	Satellites & CubeSats, radar, communications, launch systems
Defense & Security	UAVs, UUV and other ROV, ground communications, handheld portable equipment, rugged vehicle electronics



Female Cable Assembly with 12 contacts



Metal backshells shown with full braiding



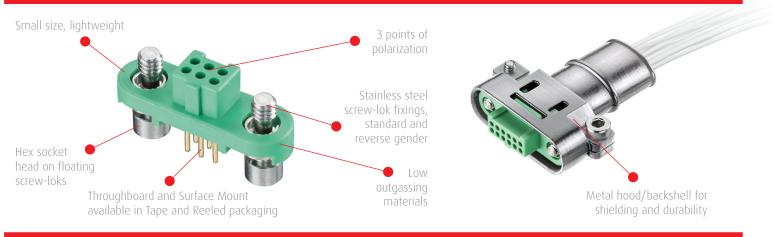
Male horizontal throughboard with 20 contacts



## www.harwin.com/gecko-sl

# ARWi

### **Product Features**



#### How to Order

		G125	- XX		XX	X		
GEND	ER/TYPE						PACK	(AGING
224	Female Cable Housing	ī					Blank	Loose (Cable Housings)
324	Male Cable Housing						Р	Tape & Reel strips (PCB Connectors)
FV1	Female 3mm Throughboard Vertical						R	Tape & Reeled (PCB Connectors)
FS1	Female Surface Mount Vertical							
MV1	Male 3mm Throughboard Vertical						FIXINGS	
MH1	Male 3mm Throughboard Horizontal						FO	No Screw-Lok (female for Backshells)
MS1	Male Surface Mount Vertical						F1	Female Standard, Hex Socket Floating
TOTAL	NO. OF CONTACTS						F2	Female Reverse Fix, no Board Mount
06, 10,	12, 16, 20, 26, 34, 50						F3	Female Reverse Fix, 5mm Board Mount
	1						M1	Male Standard, no Board Mount
	I/COLOR						M2	Male Standard, 5mm Vert.Board Mount
05 96	Gold finish (PCB Connectors) Green Housing (Cable Housings)						М3	Male Reverse Fix, Hex Socket Floating
	nical Drawings for available combinations						M4	Male Standard, Horizontal Board Mount

Check Technical Drawings for available combinations

#### **Cable Contacts**



**Board Mount Accessories** 



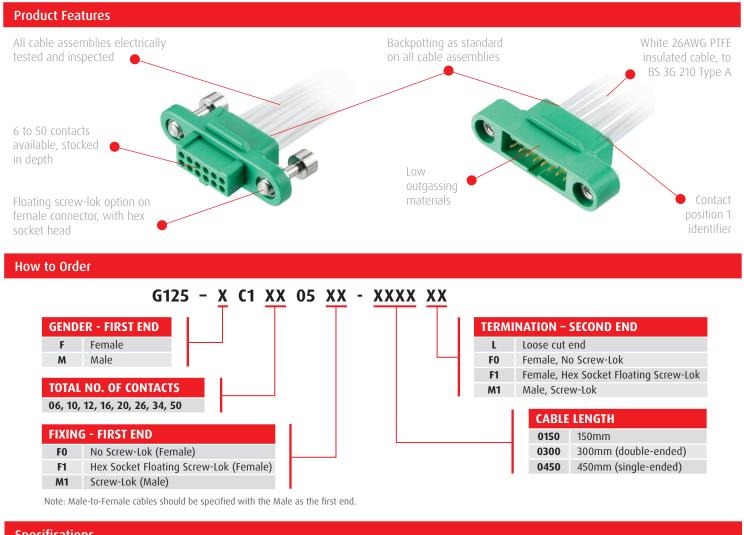
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# HARWIN

## Gecko-SL Ready-Made Cable Assemblies

## Secure & Robust Miniature Connectors for demanding applications

To save time and resources, Cable Assemblies from Harwin are supplied ready-to-use, fully tested and backpotted. No additional tooling or training is required, and extensive stocks eliminate time spent waiting for custom-made manufacturing and quality inspection.



specifications						
Electrical		Mechanical & Enviror	nmental	Physical		
Current Rating	2A per contact	Mating Cycles	1,000	Housing	Glass filled PA4T, UL94V-0	
Voltage Rating	450V AC/DC	Temperature Range	-65°C to +150°C	Contacts	Copper alloy, Gold plating	
Maximum Voltage	600V AC/DC	Insertion force	2.8N max	Screw-loks	Stainless steel	
Contact Resistance	25mΩ max	Withdrawal force	0.2N min	Cable	White 26AWG PTFE to BS 3G 210 Type A	
Insulation Resistance	1GΩ min	Vibration	20G, 6 hours total			



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