

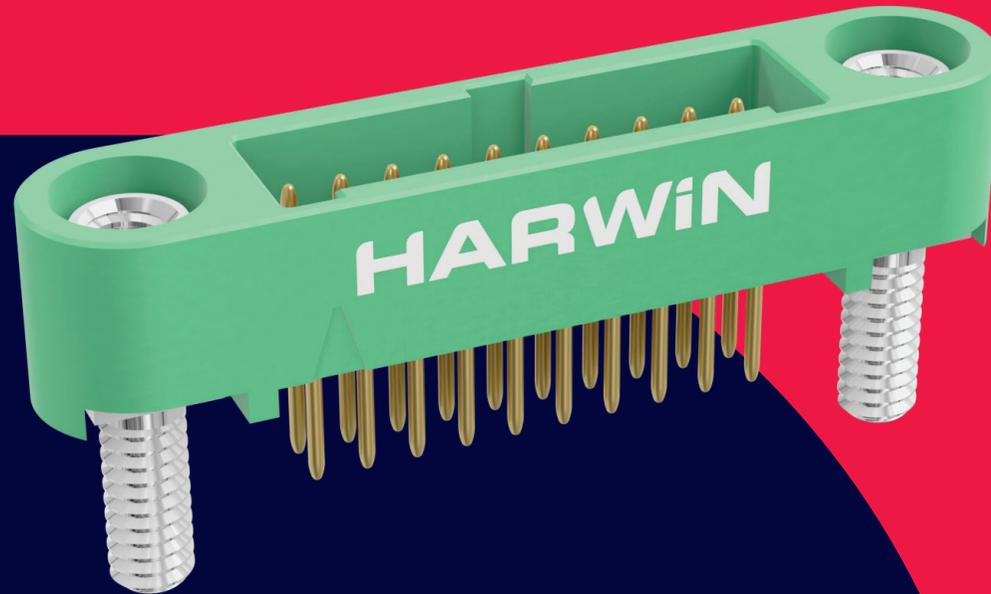
# HARWIN

CONNECT TECHNOLOGY  
WITH CONFIDENCE



# HARWIN

RANGE



# HIGH RELIABILITY RECTANGULAR SIGNAL

MICRO-MINIATURE CONNECTORS

[WWW.HARWIN.COM](http://WWW.HARWIN.COM)

# HARWIN



# HRI CONNECTORS FROM HARWIN.

## MICRO-MINIATURE CONNECTORS FOR SWAP-C OPTIMIZATION

For applications that must not fail, Gecko brings high-reliability connection at a miniature 1.25mm pitch. Complete flexibility with assured performance under shock/vibration and temperature.

The compact design gives significant space saving over industry standard alternatives, and up to 75% lighter. Cable-to-board, board-to-board and cable-to-cable options in pin counts up to 50.

The multi-finger Beryllium Copper contacts assure signal integrity under heavy vibration and shock, maintaining electrical connectivity in a variety of harsh environments. Temperature resistance covers -65°C to +150°C.

Stainless steel jackscrews are available in both standard or reverse-fix configurations, with panel and board mount for additional security. Lightweight metal hoods protect cables & housings, and reduce EM/RF interference.

Cable assembly options are available from our in-house cabling experts. Just specify the length and the signal cable gauge, and we'll produce fully inspected and tested assemblies ready for your production line.

Patent Published

## FEATURES

- Mate-before-lock or latches for quick and easy connections
- Assured signal integrity under extreme environments – vibration, shock and temperature resistance
- Low outgassing, great for space, avionics and optronics

## APPLICATIONS

- Aviation and UAVs
- New space
- Motorsport
- Defense & security



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## SPECIFICATIONS

MATERIALS	ELECTRICAL	MECHANICAL	ENVIRONMENTAL
Housings: <b>Glass-Filled High Temperature Thermoplastic, UL94V-0</b>	Current per contact: <b>2.8A max</b>	Durability: <b>1,000 mating cycles</b>	Operating temperature: <b>-65°C to +150°C</b>
Contacts: <b>Copper Alloy, Gold Plating</b>	Working voltage: <b>450V AC/DC</b>	Insertion force (per contact): <b>2.8N max</b>	Environmental classification: <b>65/150/96 hrs at 93% RH</b>
	Maximum voltage: <b>600V AC/DC</b>		Vibration resistance: <b>20G (196m/s<sup>2</sup>) for 2 hours</b>
Screw-loks: <b>Stainless Steel</b>	Contact resistance: <b>25mΩ max</b>	Withdrawal force (per contact): <b>0.2N min</b>	Shock resistance: <b>100G (981m/s<sup>2</sup>) in Z axis</b> <b>50G (490m/s<sup>2</sup>) in X/Y axis</b>
		Contact retention in housing: <b>6N min</b>	Outgassing: <b>0.68% TML, 0.01% CVCM, 0.26% WVR</b>
Metal Backshells: <b>Aluminium Alloy</b>	Insulation resistance: <b>1GΩ min at 500V DC</b>	Pitch: <b>1.25mm</b>	Compliance: <b>RoHS Compliant</b> <b>REACH / CMRT statements</b>

Specifications are subject to change.





## PRODUCT CATEGORIES

### CABLE ASSEMBLIES

Ready-to-use cabled connectors, single or double ended, fully inspected and tested. Backpotted for added strain relief; shielded and twisted also available. Ideal for both prototyping and full production requirements.



### CABLE CONNECTOR PARTS

Cable housings and contacts sold separately, in male and female options. Latches and Screw-loks are ready assembled to the housings.



### PCB CONNECTORS

Board-mounted connectors in male and female options. Low profile, with standard gender or reverse screw-loks, or latching style for reduced PCB space.



### TOOLING & ACCESSORIES

Associated products and tooling for the Gecko range.



Specifications are subject to change.



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## PRODUCT CATEGORIES

### BACKSHELLS

Lightweight aluminium alloy backshells for cable and PCB mounting, compatible with male and female connectors. EMC shielding with metal braid and micro-band fixing, available as separate components or as completed ready-made cable assemblies. Robust hoods for long-term physical protection.



### PRE-CABLED CONTACTS

Individual cable contacts pre-crimped to lengths of equipment wire. Available in single or double ended options. Eliminates the additional expense of crimp tooling – great for prototyping and volume production.



Specifications are subject to change.



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## DOWNLOADS

### TECHNICAL DOCUMENTS

Component Specification (including pin numbering system)



### PRODUCT TRAINING

Gecko Latch Product Training Module (PTM)



Gecko-SL Product Training Module (PTM)



Cable Assembly Instruction Video



### TEST REPORTS

**HT030** – Gecko (G125 Series) – Electrical, Mechanical and Environmental



**HT069** – Gecko – Backpotting Temperature Test



**HT075** – Gecko-SL Shielded Cable Assemblies



**HT067** – Gecko-SL Mechanical Screw-Lok Test



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