

# Gecko-MT

## 1.25mm pitch Mixed Layout Connectors

The smallest, lightest mixed-layout connector

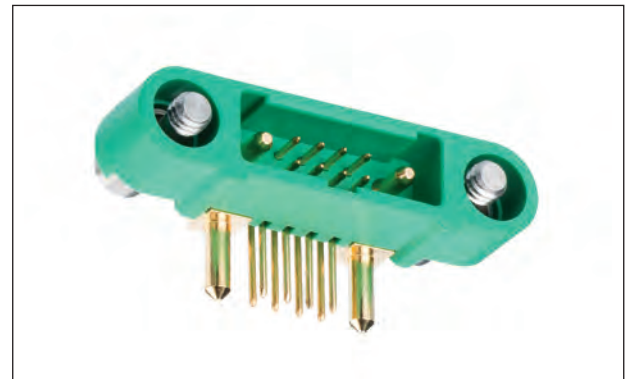
The Gecko-MT range combines the 1.25mm pitch Gecko signal connector system with mixed technology layouts, adding 10A power contacts to the range. The smallest and lightest mixed-layout connector available for high-performance applications, Gecko-MT is the ideal choice when SWaP matters most.

Featuring cable-to-board, board-to-board and cable-to-cable options, pin-layouts include symmetrical and non-symmetrical contact configurations.

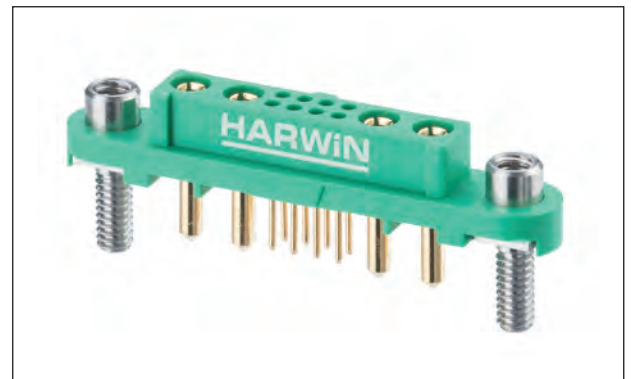
Stainless steel jackscrews are available in both standard or reverse-fix, ensuring secure connection, and lightweight metal hoods are available for additional cable protection and shielding.



Female cabled connector with 8+3 contacts and rear panel mount



Male horizontal throughboard connector with 1+8+1 contacts and reverse fix

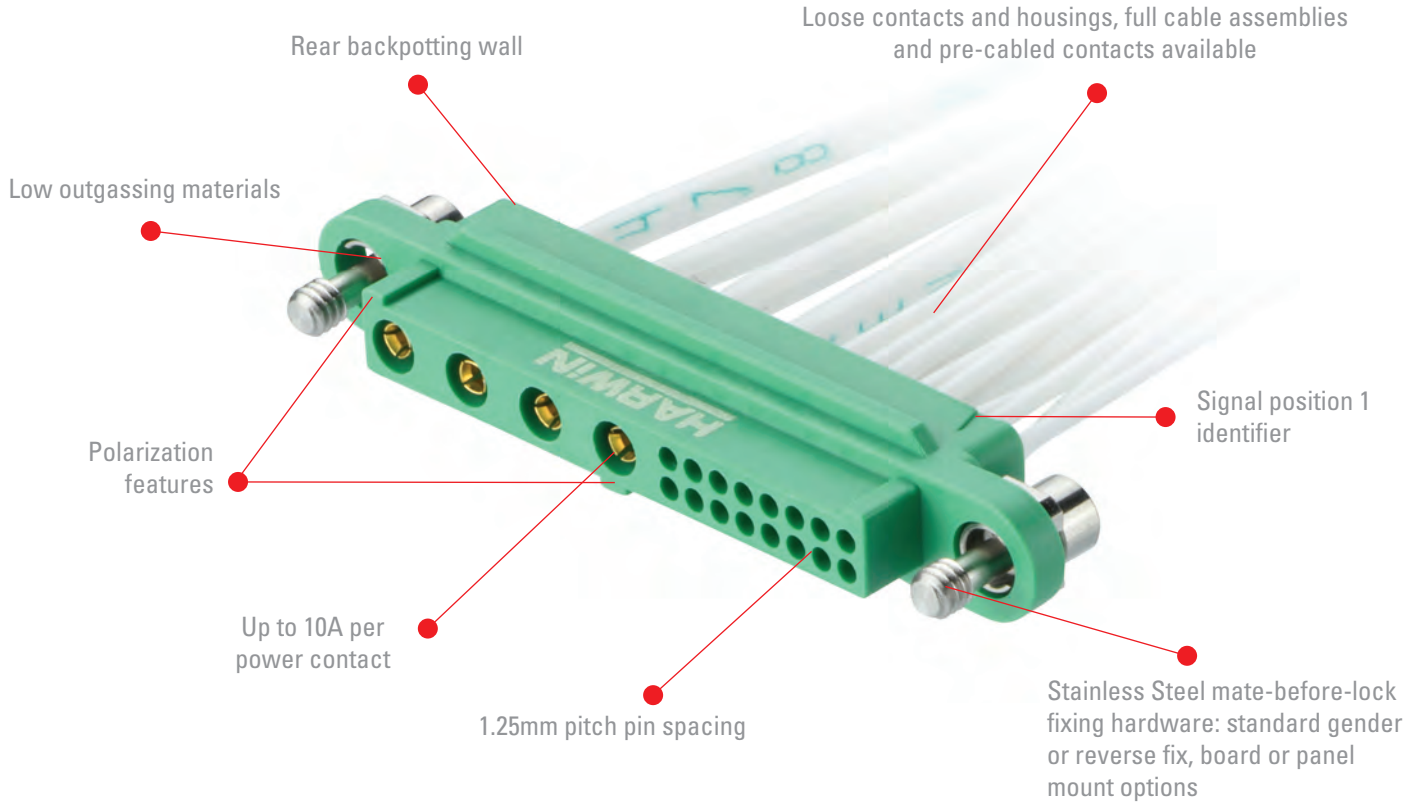


Female vertical throughboard connector with 2+8+2 contacts and board mount

Features and Benefits	
Mixed current capacity of 10A & 2A per contact	Save PCB space by combining signal and power in one miniature connector
Compact size – 1.25mm between signal pins	Significant space saving over competitive products
Shock (100G) and vibration (20G) proof	Maintain electrical contact in harsh environments
Mate before lock	Quick and easy mating process
Low outgassing	Meet NASA and ESA outgassing specifications
Stainless Steel locking screws in both standard and “reverse-fix” orientation	Ensure reliability with a strong and secure connection
Cable assemblies available upon request	Easily integrate ready-made assemblies and avoid tooling and process costs
Gecko Backshell compatible	Protect cables from wear and reduce RF / EM Interference
Vertical & right-angle versions	A high level of design flexibility for a variety of PCB stacking options
Operates at extreme temperatures -65°C to +150 °C	Can be used in a wide variety of extreme environments
4 finger Beryllium Copper female contact	Signal integrity is assured under heavy vibration

Key Applications	
Aviation	Avionic controls, guidance systems, engine controls, radar, 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, ground communications, rugged vehicle electronics

## Product Features



## Specifications

Electrical		Mechanical		Physical	
Current Rating	10A power 2A signal	Number of 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	Vibration	20G	Screw-loks	Stainless steel
Contact Resistance	25mΩ max	Shock	100G	Cable	PTFE insulation
Insulation Resistance	1GΩ min				

## How to Order

### Cable Assemblies

**G125 - X C X XX XX - X X X X - XXXX XX**

#### GENDER - FIRST END

<b>F</b>	Female
<b>M</b>	Male

#### CABLE SIZE - SIGNAL

<b>1</b>	26 AWG
<b>2</b>	28 AWG

#### NO. OF SIGNAL CONTACTS

#### FIXINGS - FIRST END

<b>F1</b>	Screw-Lok (female)	<b>M1</b>	Screw-Lok (male)
<b>F2</b>	Reverse Fix (female)	<b>M3</b>	Reverse Fix (male)

#### NO. OF POWER CONTACTS - FIRST SIDE

#### POWER CONTACT TYPE - FIRST SIDE

<b>B</b>	Female
<b>D</b>	Male

#### GENDER, FIXINGS - SECOND END

<b>L</b>	Loose cut end
<b>F1</b>	Screw-Lok (female)
<b>F2</b>	Reverse Fix (female)
<b>M1</b>	Screw-Lok (male)
<b>M3</b>	Reverse Fix (male)

#### CABLE LENGTH

<b>0060 to 9999</b>	60mm to 9,999mm
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#### POWER CONTACT TYPE - SECOND SIDE

<b>0</b>	Non-symmetrical layout
<b>B</b>	Female
<b>D</b>	Male

#### NO. OF POWER CONTACTS - SECOND SIDE

<b>0</b>	Non-symmetrical layout
<b>X</b>	Power

Note: Female-to-Male cables should be specified with the Male as the first end.

### Cable Contacts



**G125-0010005**  
Female 26AWG  
Signal Contact



**G125-0020005**  
Female 28-32AWG  
Signal Contact



**G125-0500005**  
Female 18AWG  
Power Contact



**G125-1010005**  
Male 26AWG  
Signal Contact



**G125-1020005**  
Male 28-32AWG  
Signal Contact



**G125-1500005**  
Male 18AWG  
Power Contact

## How to Order

### Cable Housings

G125 - X24 96 XX - XX - XX - XX

#### GENDER

<b>224</b>	Female
<b>324</b>	Male

#### NO. OF CONTACTS

<b>XX-XX-XX</b>	Power, Signal, Power
<b>XX-XX-00</b>	Power, Signal

#### FIXINGS: FEMALE

<b>00</b>	No Fixings, for Backshell use
<b>F1</b>	Screw-Lok with hex socket
<b>F2</b>	Reverse Fix
<b>F3</b>	Reverse Fix, front panel mount
<b>F5</b>	Reverse Fix, rear panel mount

#### FIXINGS: MALE

<b>M1</b>	Screw-Lok
<b>M2</b>	Screw-Lok, front panel mount
<b>M3</b>	Reverse Fix with hex socket
<b>M5</b>	Screw-Lok, rear panel mount

### Pre-cabled Contacts

G125 - X XX XXXX X XX

#### GENDER - FIRST END

<b>F</b>	Female
<b>M</b>	Male

#### CABLE COLOR

<b>94</b>	White
<b>99</b>	Red (Power only)

#### CABLE SIZE

<b>P1</b>	18 AWG (Power)
<b>W1</b>	26 AWG (Signal)
<b>W2</b>	28 AWG (Signal)
<b>W3</b>	30 AWG (Signal)

#### GENDER - SECOND END

<b>L</b>	Loose cut end
<b>F</b>	Female
<b>M</b>	Male

#### CABLE LENGTH

<b>0060 to 9999</b>	60mm to 9,999mm
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Note: Female-to-Male cables should be specified with the Male as the first end.

## How to Order

### PCB Connectors

**G125 - XX 1 XX 05 XX - XX AX X XX P**

#### GENDER, STYLE

<b>FV</b>	Female Vertical
<b>MH</b>	Male Horizontal

#### NO. OF SIGNAL CONTACTS

#### FINISH

<b>05</b>	Gold (symmetrical)
<b>BLANK</b>	Gold (non-symmetrical)

#### FIXINGS: FEMALE

<b>F1</b>	Screw-Lok
<b>F3</b>	Reverse Fix

#### FIXINGS: MALE

<b>M4</b>	Screw-Lok
<b>M3</b>	Reverse Fix

#### POWER CONTACT TYPE - SECOND SIDE

<b>00</b>	Non-symmetrical layout
<b>AB</b>	Female
<b>AD</b>	Male

#### NO. OF POWER CONTACTS - SECOND SIDE

<b>0</b>	Non-symmetrical layout
<b>X</b>	Power

#### POWER CONTACT TYPE - FIRST SIDE

<b>AB</b>	Female
<b>AD</b>	Male

#### NO. OF POWER CONTACTS - FIRST SIDE

<b>X</b>	Symmetrical Layout
<b>0X</b>	Non-symmetrical layout

### Board Mount Accessories



**G125-450000B**  
Hex Nut



**G125-4510000B**  
Slotted Nut



**G125-4520000B**  
5mm Hex  
Socket Bolt

### Related Products

- Cable assembly facility
- Dummy signal contacts
- Crimp & insertion tooling
- Metal backshells





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