

# Gecko-MT

## 1.25mm pitch Mixed Layout Connectors

The smallest, lightest mixed-layout connector

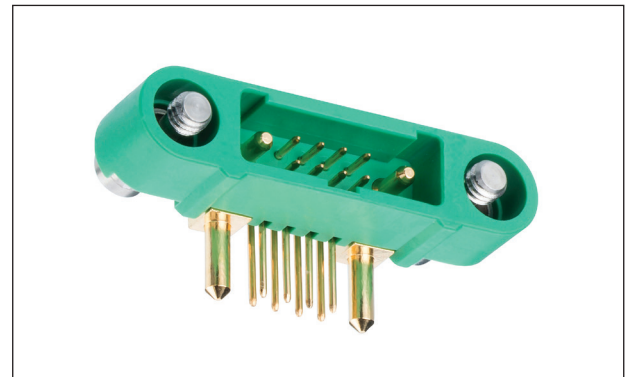
The Gecko-MT range combines the 1.25mm pitch Gecko signal connector system with mixed technology layouts, adding 10A power contacts to the range. The smallest and lightest mixed-layout connector available for high-performance applications, Gecko-MT is the ideal choice when SWaP matters most.

Featuring cable-to-board, board-to-board and cable-to-cable options, pin-layouts include 1+8+1 or 2+8+2 contact configurations.

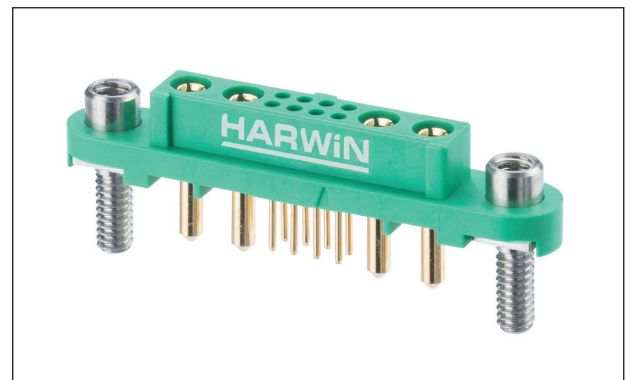
Stainless steel jackscrews are available in both standard or reverse-fix, ensuring secure connection, and lightweight metal hoods are available for additional cable protection and shielding.



Female Cabled connector with 2+8+2 contacts



Male 1+8+1 connector: horizontal PCB throughboard



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

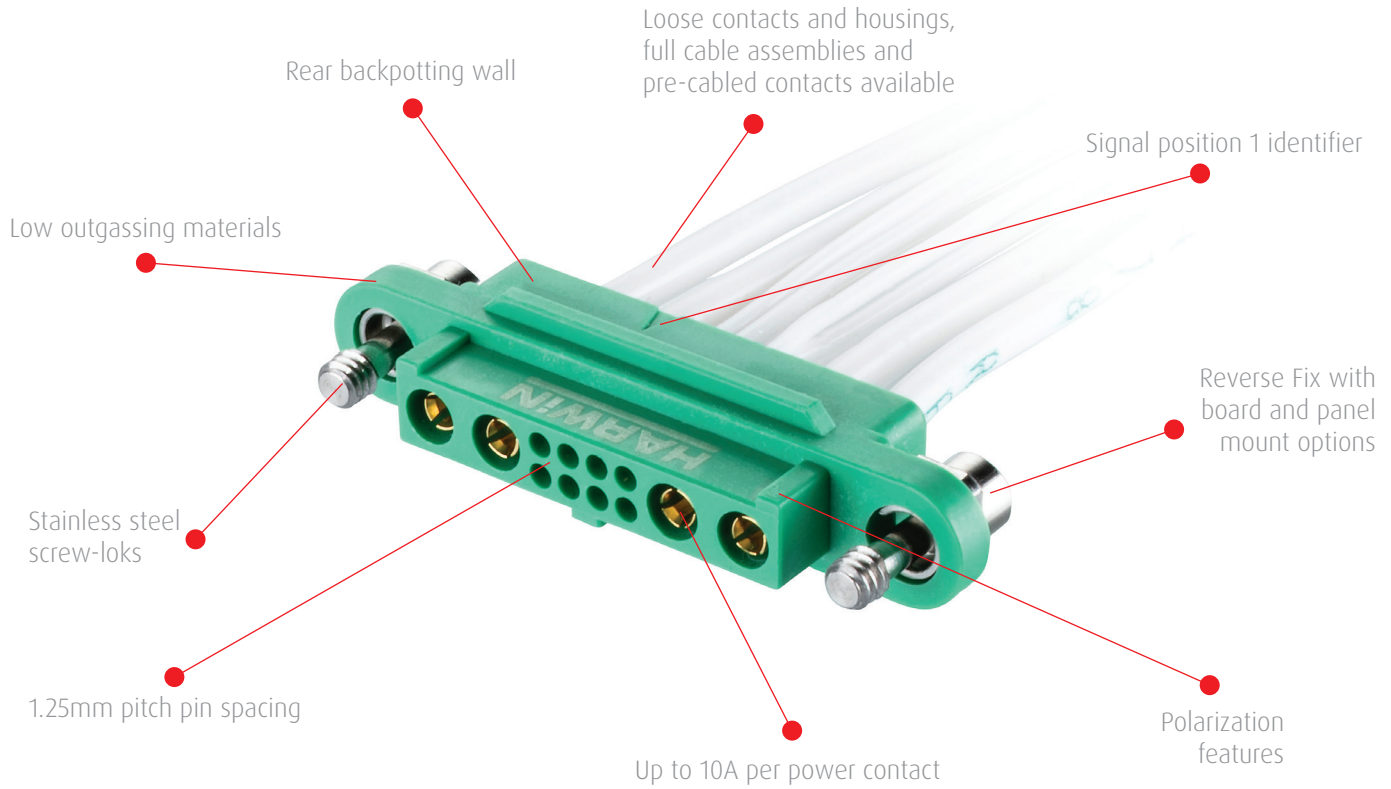
### Features and Benefits

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 per power contact, 2A per signal contact	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 - EIA-364-28D	Screw-loks	Stainless steel
Contact Resistance	25mΩ max	Shock	100G - EIA-364-27B	Cable	PTFE insulation
Insulation Resistance	1GΩ min				

## How to Order

### Cable Housings

**G125 - X24 96 XX - XX - 08 - XX**

#### GENDER

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

#### NUMBER OF POWER CONTACTS

01, 02 (this is repeated for each XX either side of the 08)

#### FIXINGS

<b>F1</b>	Screw-Lok (Female)	<b>M1</b>	Screw-Lok (Male)
<b>F2</b>	Reverse Fix (Female)	<b>M3</b>	Reverse Fix (Male)
<b>F3</b>	Reverse Fix with Panel Mount (Female)		
<b>00</b>	No Fixings (Female for Backshells)		

### Cable Contacts



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



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



**G125-0500005**  
Female Power  
Contact



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



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



**G125-1500005**  
Male Power  
Contact

### PCB Connectors

**G125 - XX 10805 XX - XXXXXX P**

#### GENDER, STYLE

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

#### PACKAGING

<b>P</b>	Tape & Reel Strips
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#### FIXINGS

<b>F1</b>	Screw-Lok (Female)	<b>M4</b>	Screw-Lok (Male)
<b>F3</b>	Reverse Fix (Female)	<b>M3</b>	Reverse Fix (Male)

#### NUMBER OF POWER CONTACTS

<b>1AB1AB</b>	1 Power contact each end (Female)
<b>2AB2AB</b>	2 Power contact each end (Female)
<b>1AD1AD</b>	1 Power contact each end (Male)
<b>2AD2AD</b>	2 Power contact each end (Male)

### Board Mount Accessories



**G125-4500008B**  
Hex Board  
Mount Nut



**G125-4510008B**  
Slotted Board  
Mount Nut



**G125-4520008B**  
5mm Hex Socket  
Board Mount Bolt

### Related Products:

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



## Cable Assemblies

**G125 - X C X 08 XX - XXXX - XXXX XX**

### SERIES CODE

### GENDER - FIRST END

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

### CABLE SIZE - SIGNAL

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

### SCREW-LOK - FIRST END

<b>F1</b>	Floating Hex Socket (female only)
<b>F2</b>	Reverse Fix Internal Thread (female only)
<b>M1</b>	Internal Thread (male only)
<b>M3</b>	Reverse Fix Floating Hex Socket (male only)

### TERMINATION - SECOND END

<b>L</b>	Loose cut end
<b>F1</b>	Floating Hex Socket (female only)
<b>F2</b>	Reverse Fix Internal Thread (female only)
<b>M1</b>	Internal Thread (male only)
<b>M3</b>	Reverse Fix Floating Hex Socket (male only)

When specifying Male to Female cables, Male is the first end

### CABLE LENGTH

<b>0060 to 9999</b>	60mm to 9,999mm
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### POWER CONTACTS

<b>1B1B</b>	2 power contacts total, 1 each side (female only)
<b>2B2B</b>	4 power contacts total, 2 each side (female only)
<b>1D1D</b>	2 power contacts total, 1 each side (male only)
<b>2D2D</b>	4 power contacts total, 2 each side (male only)

## Pre-cabled Contacts

**G125 - X XX XXXX X XX**

### SERIES CODE

### GENDER - FIRST END

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

### CABLE SIZE

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

### CABLE COLOR

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

### TERMINATION - SECOND END

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

When specifying Male to Female cables, Male is the first end

### CABLE LENGTH

<b>0150</b>	150mm
<b>0300</b>	300mm
<b>0450</b>	450mm

## CONTACT US

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