

Gecko

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Introduction

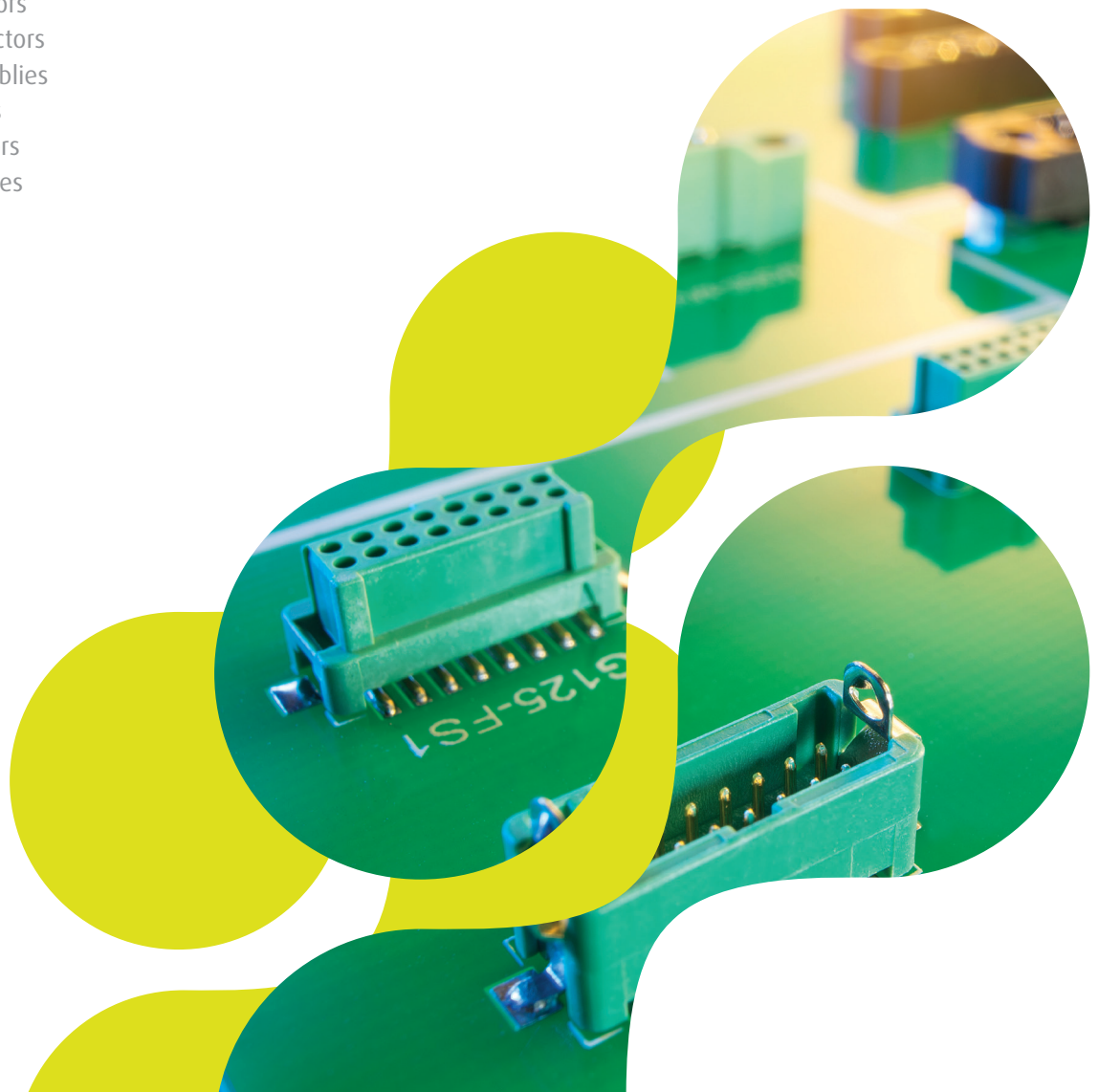
Screw-Lok 1.25mm pitch High-Reliability Connectors

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Latched 1.25mm pitch High-Reliability Connectors

- Specifications
- Mating Profiles
- Female PCB Connectors
- Female Cable Connectors
- Female Cable Assemblies
- Male PCB Connectors
- Male Cable Connectors
- Male Cable Assemblies

Tooling



Gecko Connectors Introduction

Gecko is a 1.25mm pitch High-Reliability connector range from Harwin. Improving on the popular 2mm pitch Datamate series, and harnessing the modern technology of micro-machining, this range brings the best of the high-reliability specifications to a smaller size.

Gecko provides a low-profile, dual-row solution for all variations of cable-to-board, board-to-board and cable-to-cable interconnect requirements. With up to 50 contacts per connector, but still capable of 2A per contact, Gecko gives both significant weight and space-saving advantages over Micro-D connections. The Gecko range offers either latching connectors, for maximum weight and space-saving, or Screw-Lok connectors for maximum mating strain relief.

- ❖ 2A per contact (all electrically loaded; 2.8A per individual contact)
- ❖ 4-finger Patented* contact design to maintain electrical contact through high vibration and shock
- ❖ Beryllium Copper Contact for improved temperature range: -65°C to +150°C
- ❖ 1,000 Mating cycles durability
- ❖ Weight and Space-saving over Micro-D connector products
- ❖ Future-proofed Materials - Halogen-free, PFOS-free, SVHC-free and RoHS compliant
- ❖ Low outgassing properties - 0.68% TML, 0.01% CVCM, 0.26 WVR (Water Vapour Recovered)
- ❖ All PCB connectors available in Tape and Reel for automation

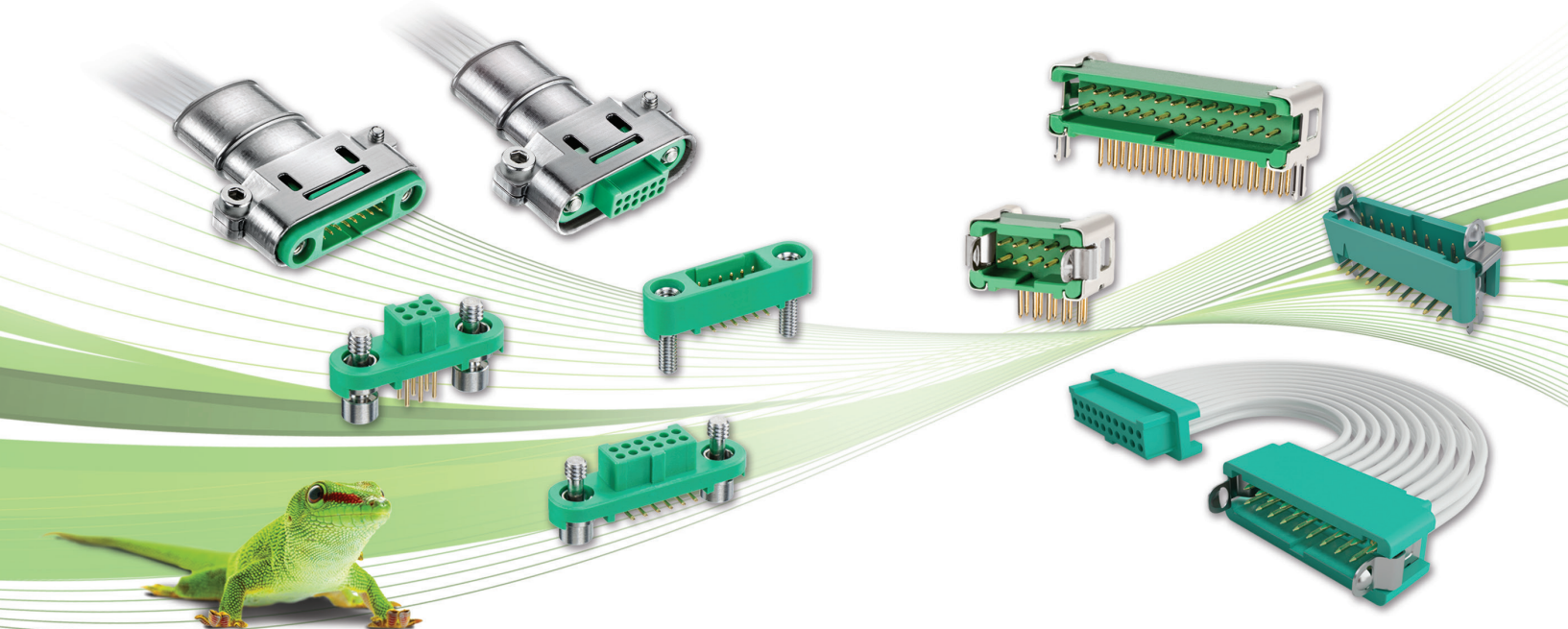
*Granted US9017089, Pending GB2501063, Pending EP2642604

Gecko Screw-Lok

- ❖ Strong stainless-steel screw fixings for maximum strain relief
- ❖ Lightweight hoods for additional cable protection and shielding
- ❖ Pre-wired contacts available for prototyping and pre-production

Gecko with Latches

- ❖ The maximum weight and space saving, designed with lightweight robust latches for minimal PCB real estate
- ❖ Product range includes complete cable assemblies, ideal for prototyping and pre-production



Patent Published

Gecko Connectors Product Features

Four Finger Beryllium Copper Contact

Unique patented pending high-reliability contact design ensures signal integrity under extremes of bump, vibration and shock. Durable to over 1,000 mating cycles.



Keyway Polarisation Points

3 polarising points on each component prevent mis-mating.



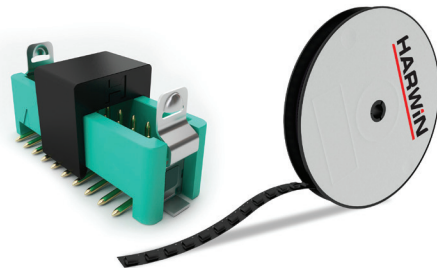
No. 1 Position identified, Potting Wall

Housings are clearly marked with identifier for fast visual inspection. Cable connectors feature a rear potting wall adding an extra level of strain relief.



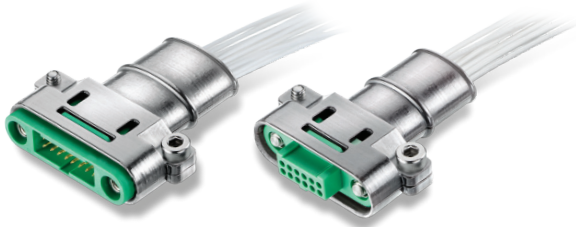
Packaged in Tape & Reel

All connectors for PCB assembly are available packaged in industry standard Tape and Reel format for automated assembly.



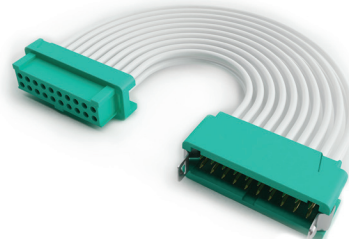
Gecko Screw-Lok - Robust Metal Backshells

Lightweight aluminium hoods / backshells available for all connector sizes from stock. Supplied with tie-bands to attach external braiding for shielded cable assemblies.



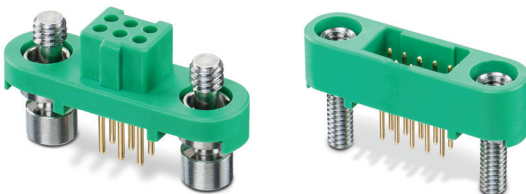
Gecko with Latches - Pre-assembled Cable Configurations

Cable connectors supplied in ready-made cable assemblies. Single and double-ended configurations available in standard lengths off-the-shelf, or custom assemblies on request.



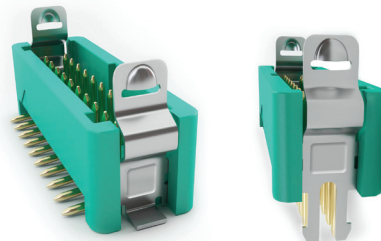
Gecko Screw-Lok - Maximum strain relief

Fixings with 2mm screw thread for maximum board and connection retention or strain relief.



Gecko with Latches - Combined Latching & PCB retention

Optional latches allow simple and fast de-latching and require no special tooling. Solder tabs for SMT and barbs for PC Tail versions ensure retention to the PCB.



Patent Published

Gecko Connectors Specifications

Materials

Mouldings:	Glass-filled High Temperature Thermoplastic UL94V-0
Female contacts:	Beryllium Copper
Male contacts	
PCT/SMT:	Phosphor Bronze
Crimp:	Brass
Finish:	0.2 – 0.3µm (8 – 12µ") Gold, over 1.5 – 2.0µm (60 – 80µ") Nickel
Screw-Loks:	Stainless Steel
Latches:	Copper Alloy

Electrical

Current	
Individual contacts in isolation:	2.8A max (At 25°C)
All contacts simultaneously:	2.0A max (At 25°C)
Working voltage	
At sea level 1006 mbar:	450V DC or AC peak
At altitude 44 mbar:	250V DC or AC peak
Voltage proof	
At sea level 1013 mbar:	600V DC or AC peak
Contact resistance	
Initial:	20mΩ max
After conditioning:	25mΩ max
Insulation resistance	
Initial:	10GΩ min at 500V DC
After conditioning:	>1GΩ min at 500V DC

Mechanical

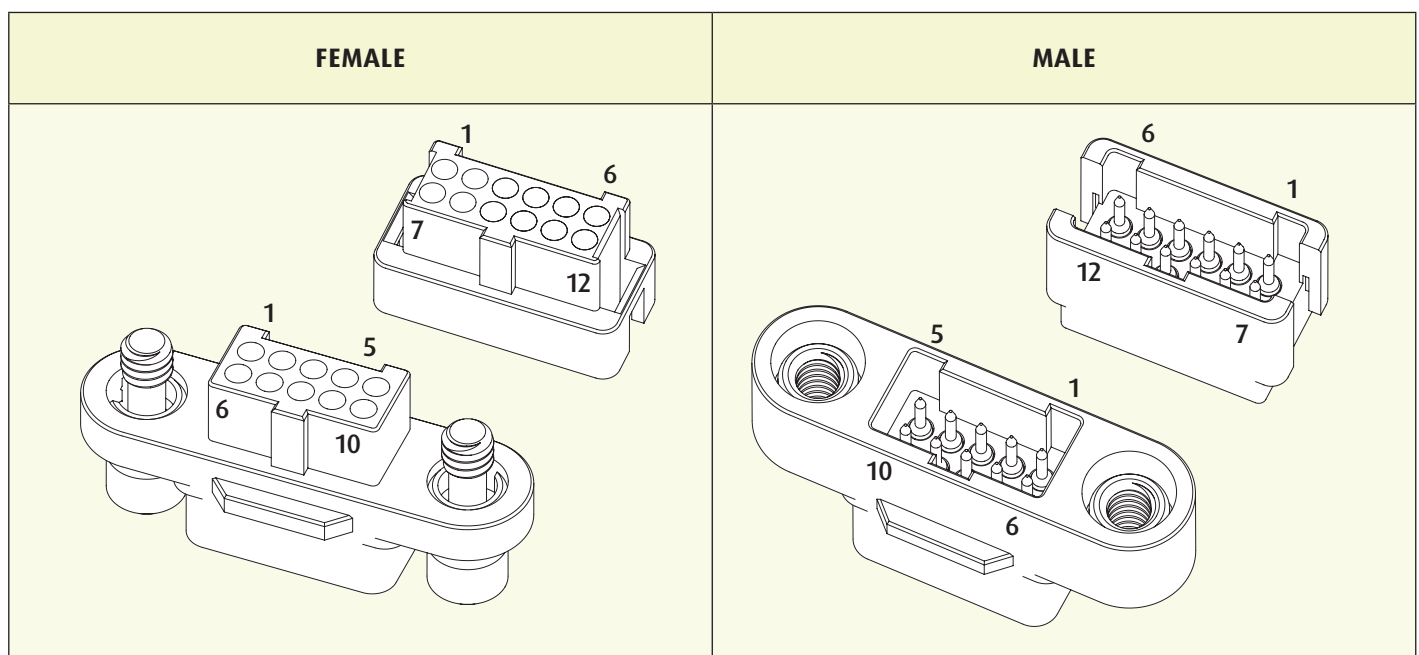
Contact durability:	1000 operations
Mating forces (per contact pair)	
Insertion force:	2.8N max
Withdrawal force:	0.2N min
Contact retention in moulding:	6N min

Environmental

Environmental classification:	65/150/56 days at 93% RH
Operating temperature:	-65°C to +150°C
*Vibration sensitivity:	10Hz to 2000Hz, 1.5mm, 198mm/s ² (20G) duration 6 hours
*Bump severity:	390m/s ² (40G), 4000 ±10 bumps
*Shock severity:	981m/s ² (100G) for 6ms in Z axis 490m/s ² (50G) for 11ms in X & Y axes
*Acceleration severity:	490m/s ² (50G)

* Tested with latched connectors.

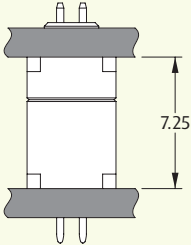
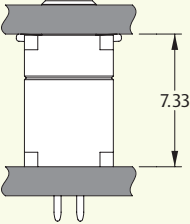
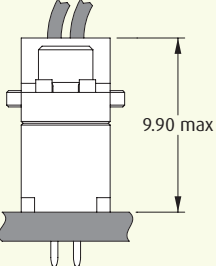
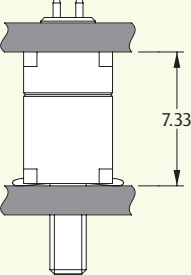
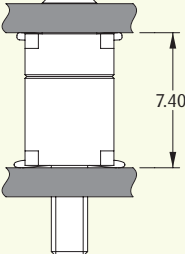
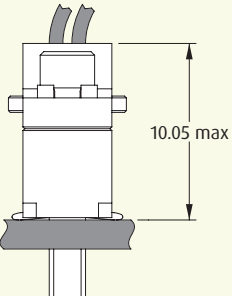
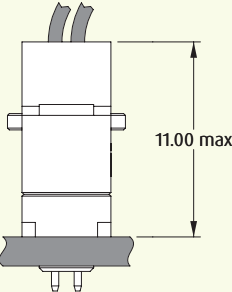
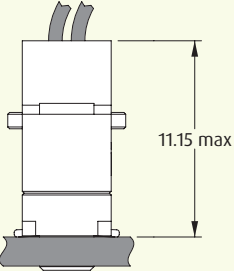
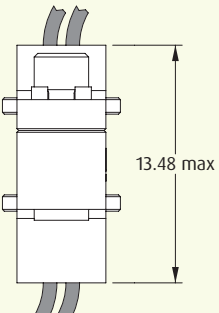
Pin Numbering



Patent Published

Gecko Screw-Lok Mating Profiles

GECKO SCREW-LOK

		FEMALE		
		VERTICAL PC TAIL	VERTICAL SMT	CABLE
MALE	VERTICAL PC TAIL	 <div>7.25</div>	 <div>7.33</div>	 <div>9.90 max</div>
	VERTICAL SMT	 <div>7.33</div>	 <div>7.40</div>	 <div>10.05 max</div>
	CABLE	 <div>11.00 max</div>	 <div>11.15 max</div>	 <div>13.48 max</div>

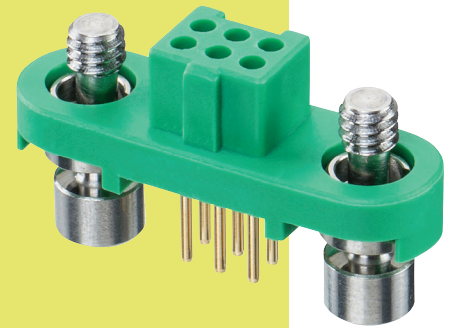
All dimensions in mm.

Patent Published

Gecko Screw-Lok Connectors

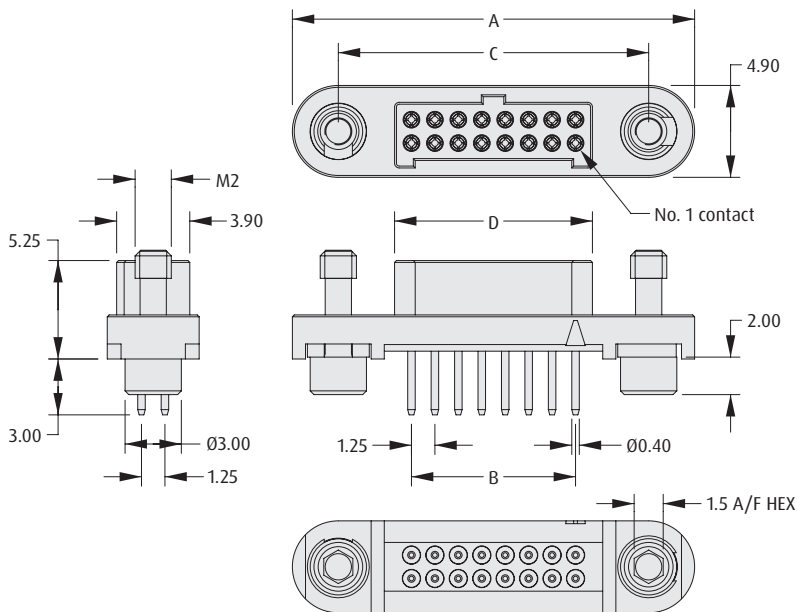
Female PC Tail

- ❑ 4-finger Beryllium Copper contact.
- ❑ Stainless steel screw fixing to mate with applicable male connector.
- ❑ Positive keyway polarisation features.
- ❑ 2A current capacity, resists high vibration and shock.
- ❑ Withstands extremes of temperature: -65°C to +150°C.



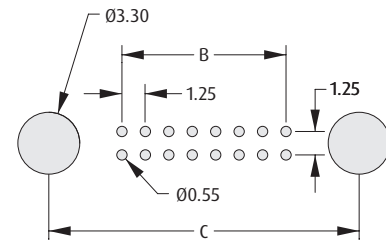
GECKO SCREW-LOK

3mm PC TAIL



CALCULATION

A	$B + 12.7$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 7.8$
D	$B + 1.8$



Recommended PC Board Pattern

HOW TO ORDER

G125 - F V1 XX 05 F1 X

SERIES CODE

TYPE

V1 3mm PC Tail

PACKAGING

R	Tape & Reeled
P	Loose

FINISH

05 Gold

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

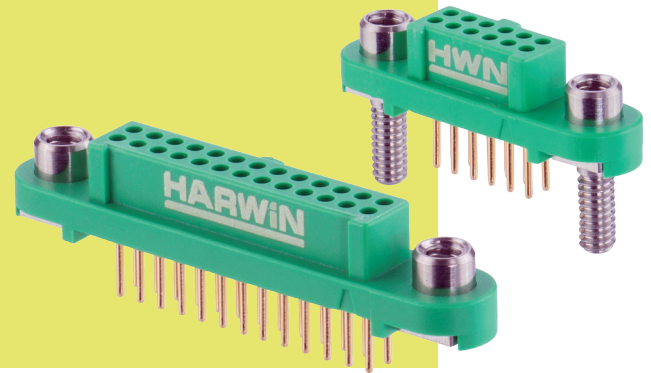
All dimensions in mm.

Patent Published

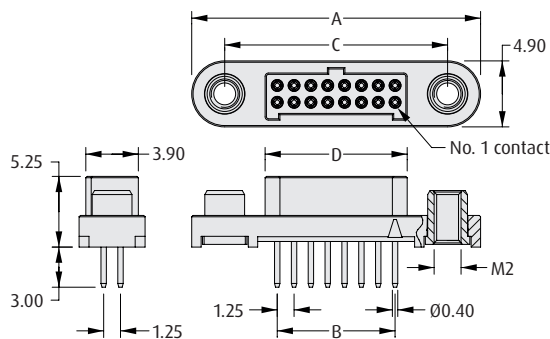
Gecko Screw-Lok Connectors

Female PC Tail - Reverse Fix

- ❖ 4-finger Beryllium Copper contact.
- ❖ Stainless steel screw fixing to mate with applicable male connector.
- ❖ Reverse fix screw-lok suitable for board-to-cable applications, where the female connector is located on the PCB.
- ❖ Order nuts for board-mount separately - see bottom of page.



WITHOUT BOARD MOUNT

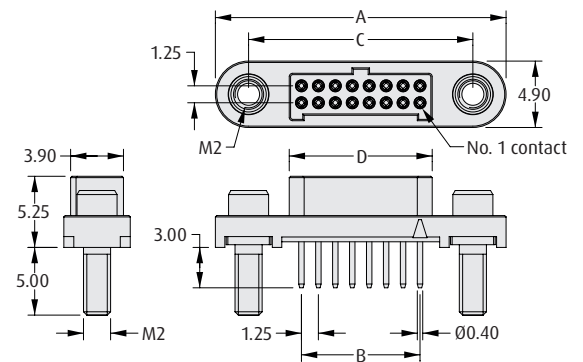


Recommended PC Board Pattern

CALCULATION

A	B + 12.7
B	0.625 x (Total No. of contacts - 2)
C	B + 7.8
D	B + 1.8

WITH BOARD MOUNT



Recommended PC Board Pattern

HOW TO ORDER

G125 - F V1 XX 05 FX X

SERIES CODE

TYPE

V1 3mm PC Tail

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

PACKAGING

R	Tape & Reeled
P	Loose

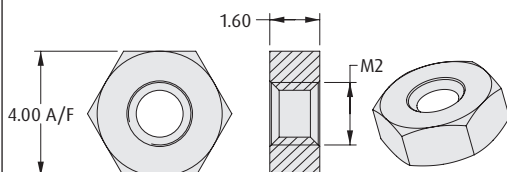
SCREW-LOK

F2	Internal Thread
F3	With 5mm Board Mount stud

REQUIRED HARDWARE

Order separately from connector

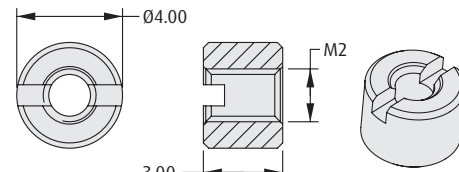
Hexagonal Board Mount Nut



ORDER CODE

G125-4500000B

Slotted Board Mount Nut



ORDER CODE

G125-4510000B

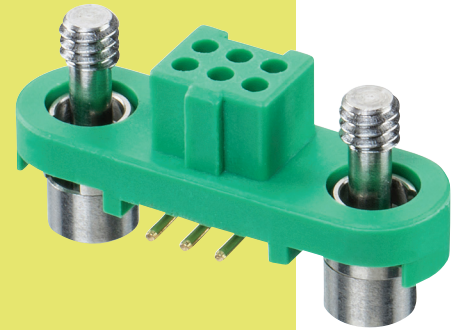
All dimensions in mm.

Patent Published

Gecko Screw-Lok Connectors

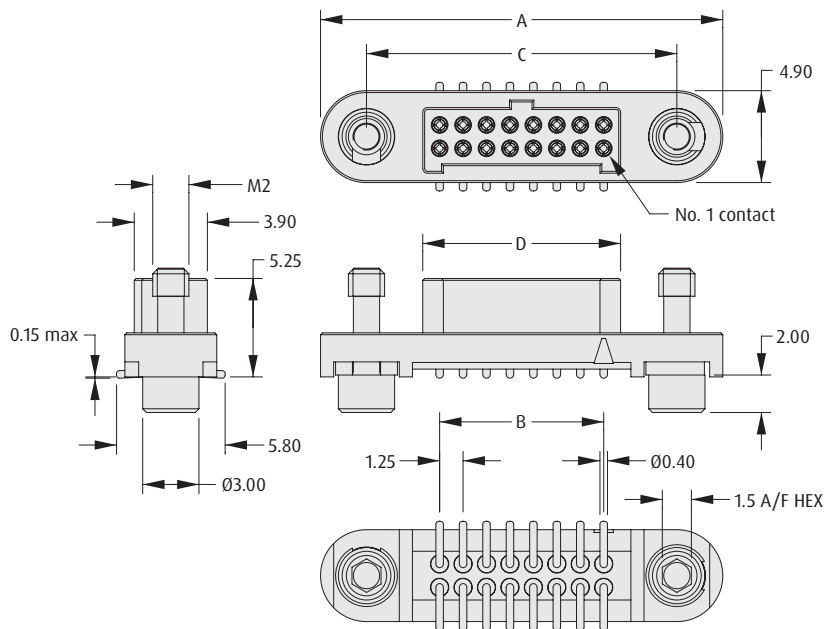
Female Surface Mount

- ❖ 4-finger Beryllium Copper contact.
- ❖ Stainless steel screw fixing to mate with applicable male connector.
- ❖ Positive keyway polarisation features.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.
- ❖ Available in Tape and Reel Packaging, with Pick and Place cap.



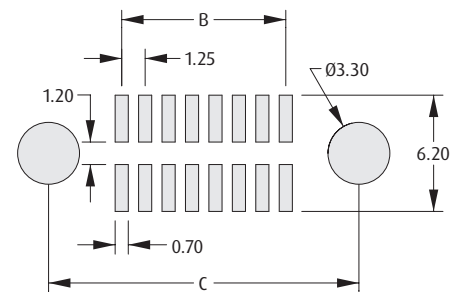
GECKO SCREW-LOK

SURFACE MOUNT



CALCULATION

A	$B + 12.7$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 7.8$
D	$B + 1.8$



Recommended PC Board Pattern

HOW TO ORDER

G125 - F S1 XX 05 F1 X

SERIES CODE

TYPE

S1 Surface Mount

PACKAGING

R	Tape & Reeled
P	Loose

FINISH

05 Gold

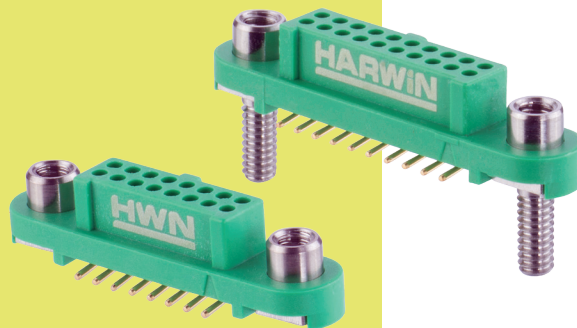
TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

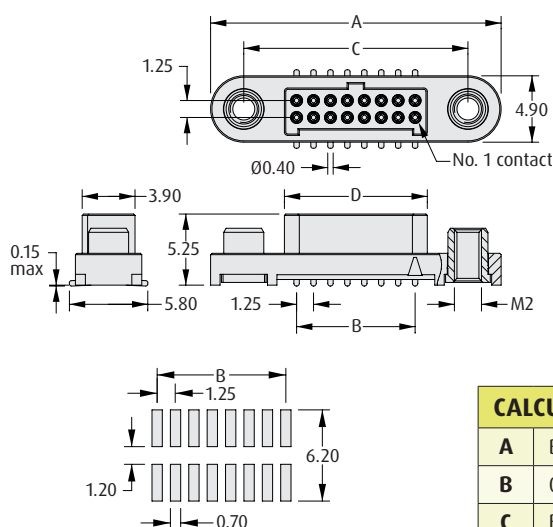
Gecko Screw-Lok Connectors

Female Surface Mount - Reverse Fix

- ❖ Stainless steel screw fixing to mate with applicable male connector.
- ❖ Reverse fix screw-lok suitable for board-to-cable applications, where the female connector is located on the PCB.
- ❖ Order nuts for board-mount separately - see bottom of page.
- ❖ Available in Tape and Reel Packaging, with Pick and Place cap.



WITHOUT BOARD MOUNT

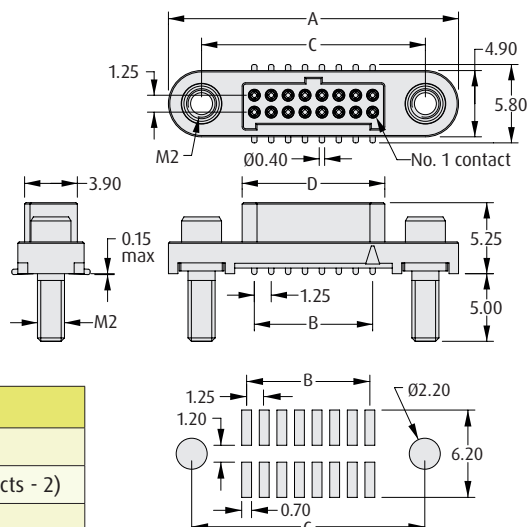


Recommended PC Board Pattern

CALCULATION

A	$B + 12.7$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 7.8$
D	$B + 1.8$

WITH BOARD MOUNT



Recommended PC Board Pattern

HOW TO ORDER

G125 - F S1 XX 05 FX X

SERIES CODE

TYPE

S1 Surface Mount

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

PACKAGING

R	Tape & Reeled
P	Loose

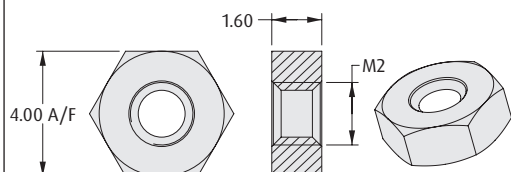
SCREW-LOK

F2	Internal Thread
F3	With 5mm Board Mount stud

REQUIRED HARDWARE

Order separately from connector

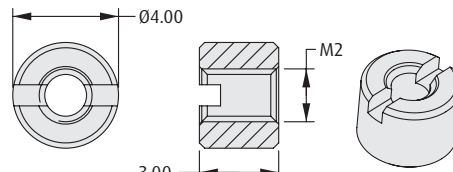
Hexagonal Board Mount Nut



ORDER CODE

G125-4500000B

Slotted Board Mount Nut



ORDER CODE

G125-4510000B

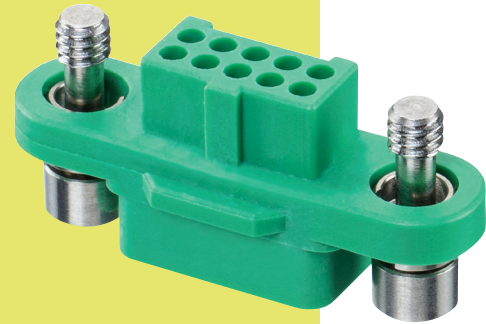
All dimensions in mm.

Patent Published

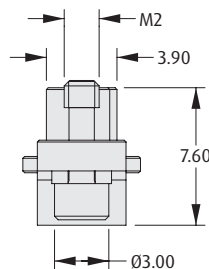
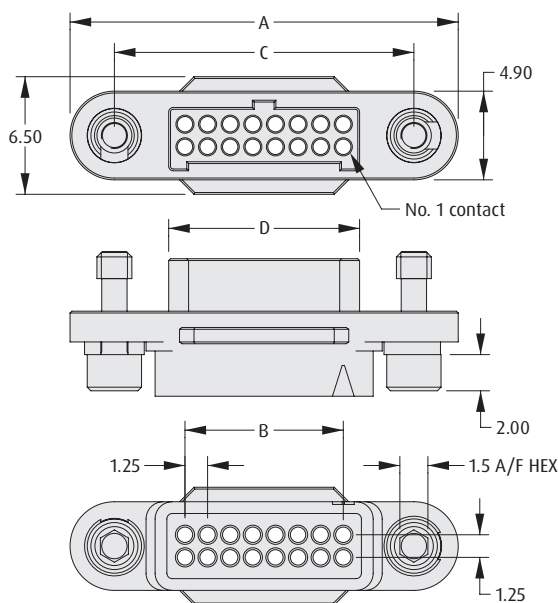
Gecko Screw-Lok Connectors

Female Crimp Housings

- Features 2.5mm potting wall for extra security.
- No. 1 position identified on moulding.
- 3 polarising points on each housing prevent mis-mating.
- Available without fixing screws, for use with metal hoods shown on a following page.
- Use with female crimp contacts and pre-cabled contacts shown on following pages.



FEMALE



CALCULATION

A	$B + 12.7$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 7.8$
D	$B + 1.8$

TOOLS

Recommended Crimp Tool - Z125-900

Positioner - Z125-901

Contact Insertion/Removal Tool - Z125-902

Female contacts shown on following pages.

Instruction sheets available at www.harwin.com/instructions.

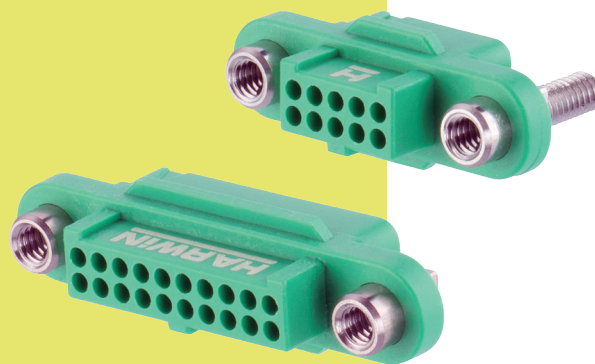
HOW TO ORDER

		G125		-		224		XX		96		XX			
SERIES CODE															
TYPE															
224	Female Housing														
TOTAL NO. OF CONTACTS															
06, 10, 12, 16, 20, 26, 34, 50															

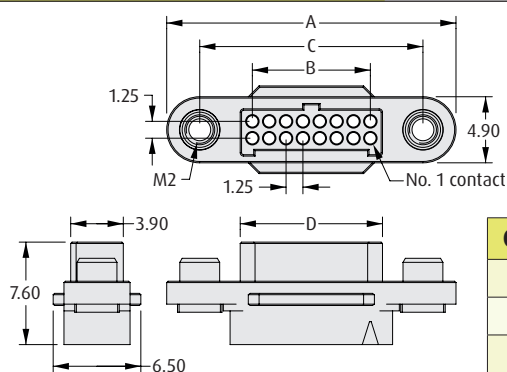
Gecko Screw-Lok Connectors

Female Crimp Housings - Reverse Fix

- Features 2.5mm potting wall for extra security.
- Use with female crimp contacts and pre-cabled contacts shown on following pages.
- Reverse fix screw-lok is suitable for board-to-cable applications, where the female connector is located on the PCB.
- Order nuts for panel mount separately - see bottom of page.



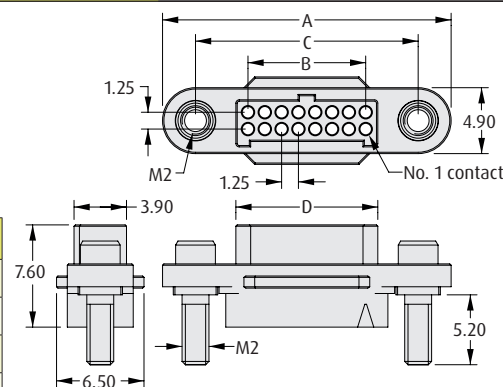
WITHOUT PANEL MOUNT



CALCULATION

A	B + 12.7
B	0.625 x (Total No. of contacts - 2)
C	B + 7.8
D	B + 1.8

WITH PANEL MOUNT



HOW TO ORDER

G125 - 224 XX 96 FX

SERIES CODE

TYPE

224 Female Housing

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

SCREW-LOK

F2	Internal Thread
F3	With 5mm Panel Mount stud

FINISH

96 Housing

TOOLS

Recommended Crimp Tool - Z125-900

Positioner - Z125-901

Contact Insertion/Removal Tool - Z125-902

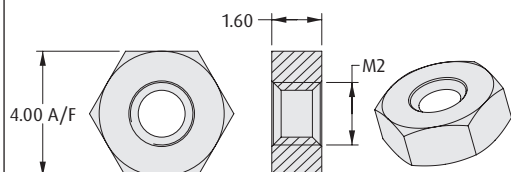
Female contacts shown on following pages.

Instruction sheets available at www.harwin.com/instructions.

REQUIRED HARDWARE

Order separately from connector

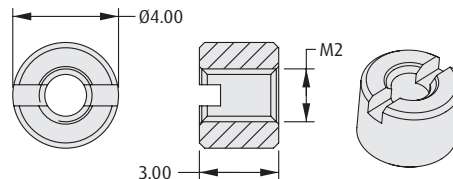
Hexagonal Board Mount Nut



ORDER CODE

G125-4500000B

Slotted Board Mount Nut



ORDER CODE

G125-4510000B

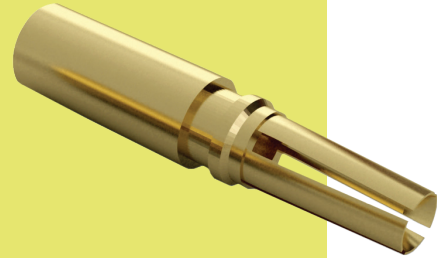
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Patent Published

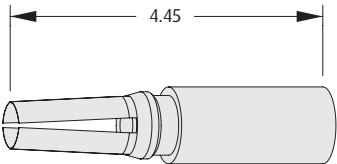
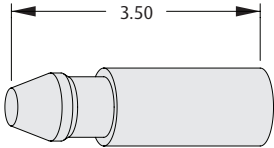
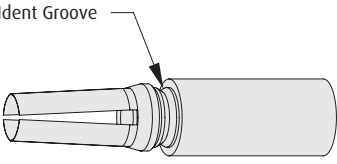
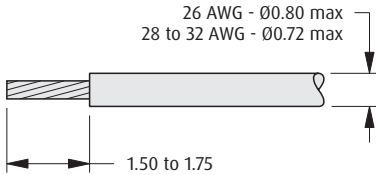
Gecko Screw-Lok Connectors

Female Crimp Contacts, Dummy Contact

- ❖ 4-finger Beryllium Copper contact on a female connector.
- ❖ Crimp barrel meets all crimp guidelines and standards.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.
- ❖ Instruction video online at www.harwin.com/harwintv.
- ❖ Dummy Contact can be used for additional polarisation of keying of multiple connectors. Also called Blanking Plug.



GECKO SCREW-LOK

CONTACTS	DUMMY CONTACT										
<p>26 AWG</p> 											
<p>28 - 32 AWG</p> 	<p>WIRE STRIPPING DETAILS</p> 										
TOOLS											
<p>Recommended Crimp Tool - Z125-900 Positioner - Z125-901 Contact Insertion/Removal Tool - Z125-902</p>											
<p>❖ Female crimp housings shown on previous pages. ❖ Pre-cabled contacts shown on following page. ❖ Instruction sheets available at www.harwin.com/instructions.</p>											
HOW TO ORDER											
<p>G125 - 0XX 00 05</p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;"> <p>SERIES CODE</p> <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">TYPE</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>Female 26 AWG crimp contact</td> </tr> <tr> <td>002</td> <td>Female 28-32 AWG crimp contact</td> </tr> <tr> <td>020</td> <td>Dummy Contact (blanking plug)</td> </tr> </tbody> </table> </div> <div style="width: 30%; text-align: center;"> <p>FINISH</p> <table border="1" style="width: 100%;"> <tbody> <tr> <td>05</td> <td>Gold</td> </tr> </tbody> </table> </div> </div>		TYPE		001	Female 26 AWG crimp contact	002	Female 28-32 AWG crimp contact	020	Dummy Contact (blanking plug)	05	Gold
TYPE											
001	Female 26 AWG crimp contact										
002	Female 28-32 AWG crimp contact										
020	Dummy Contact (blanking plug)										
05	Gold										

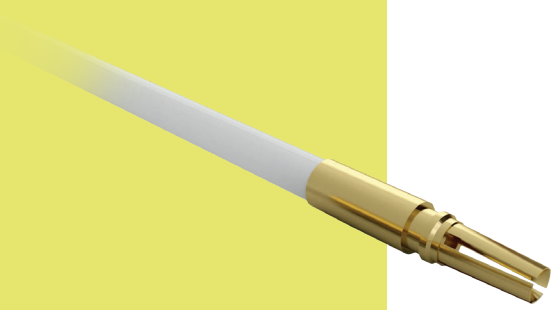
All dimensions in mm.

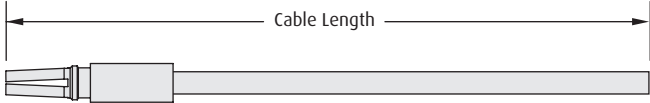
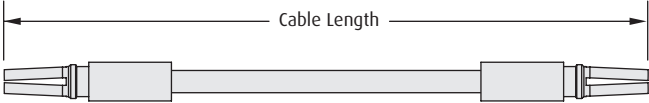
Patent Published

Gecko Screw-Lok Connectors

Female Crimp Contacts – Pre-Crimped Wires

- ❖ 4-finger Beryllium Copper contact.
- ❖ Ready for assembling to housing.
- ❖ Crimp barrel meets all crimp guidelines and standards.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.
- ❖ For non-standard cable lengths, please visit harwin.com/cable-assemblies and fill in your requirements.



FEMALE SINGLE ENDED		FEMALE – FEMALE																					
																							
TOOLS																							
Contact Insertion/Removal Tool – Z125-902		<ul style="list-style-type: none">❖ Female crimp housings and loose contacts shown on previous pages.❖ Instruction sheets available at www.harwin.com/instructions.																					
HOW TO ORDER																							
<div><div><div>SERIES CODE</div><div>G125</div></div><div><div>GENDER - FIRST END</div><div>F Female</div></div><div><div>CABLE SIZE</div><div><table><tr><td>W1</td><td>26 AWG</td></tr><tr><td>W2</td><td>28 AWG</td></tr><tr><td>W3</td><td>30 AWG</td></tr><tr><td>W4</td><td>32 AWG</td></tr></table></div></div><div><div>CABLE COLOUR</div><div><table><tr><td>94</td><td>White</td></tr></table></div></div><div><div>TERMINATION - SECOND END</div><div><table><tr><td>L</td><td>Loose cut end</td></tr><tr><td>F</td><td>Female</td></tr></table></div></div><div><div>CABLE LENGTH</div><div><table><tr><td>0150</td><td>150mm</td></tr><tr><td>0300</td><td>300mm (double-ended)</td></tr><tr><td>0450</td><td>450mm (single-ended)</td></tr></table></div></div></div> <div>G125 – F WX XXXX X 94</div>				W1	26 AWG	W2	28 AWG	W3	30 AWG	W4	32 AWG	94	White	L	Loose cut end	F	Female	0150	150mm	0300	300mm (double-ended)	0450	450mm (single-ended)
W1	26 AWG																						
W2	28 AWG																						
W3	30 AWG																						
W4	32 AWG																						
94	White																						
L	Loose cut end																						
F	Female																						
0150	150mm																						
0300	300mm (double-ended)																						
0450	450mm (single-ended)																						

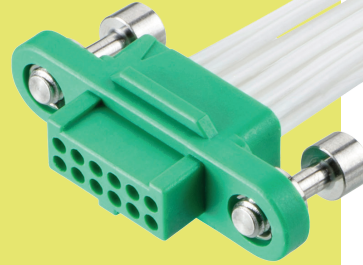
All dimensions in mm.

Patent Published

Gecko Screw-Lok Connectors

Female Cable Assemblies

- ❖ 4-finger Beryllium Copper contact.
- ❖ No.1 position identified on moulding.
- ❖ Stainless steel screw fixing to mate with applicable male connector.
- ❖ Back potted for added strain relief.
- ❖ For non-standard cable lengths, please visit harwin.com/cable-assemblies and fill in your requirements.



GECKO SCREW-LOK

PART NUMBERING SYSTEM

G125 - F C X XX 05 FX - XXXX X

SERIES CODE

GENDER - FIRST END

F Female

CABLE SIZE

1	26 AWG
2	28 AWG

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

TERMINATION - SECOND END

L	Loose cut end
F0 or F1	Female connector (same as First End)

CABLE LENGTH

0150	150mm
0300	300mm (double-ended)
0450	450mm (single-ended)

SCREW-LOK

F0	No fixings (use with Metal Hoods)
F1	Floating Hex Socket fixings

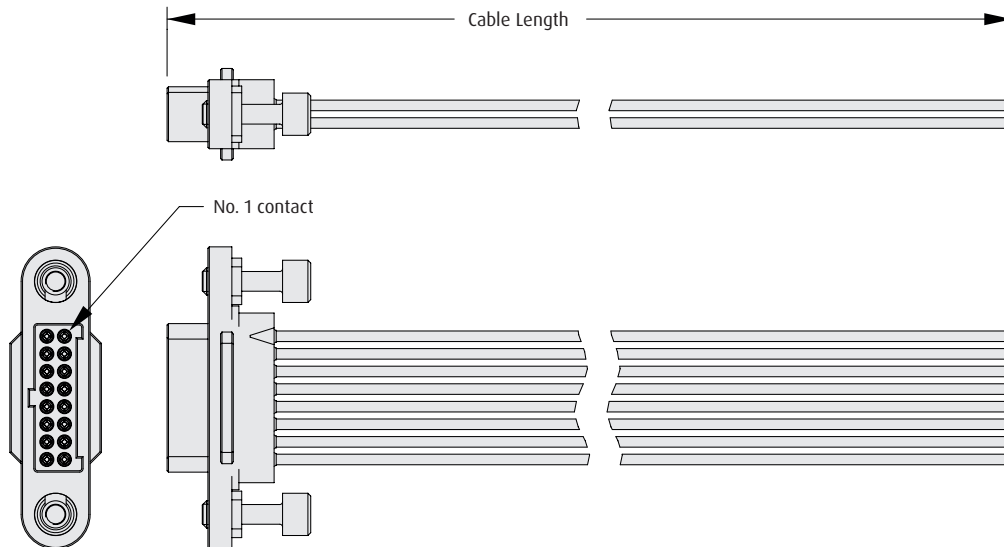
FINISH

05	Gold
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Female Cable Assemblies

- ❖ See previous page for cable length options.
- ❖ Cable assemblies are constructed with Contact 1 attached to Contact 1, Contact 2 to Contact 2, etc.

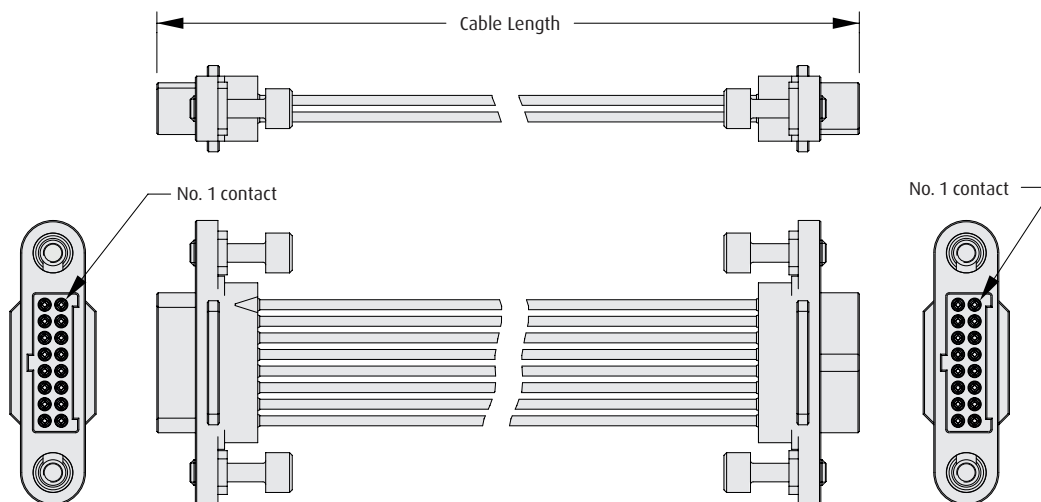
FEMALE SINGLE ENDED



ORDER CODE

G125-FCXXX05F1-XXXXL

FEMALE – FEMALE



ORDER CODE

G125-FCXXX05F1-XXXXF1

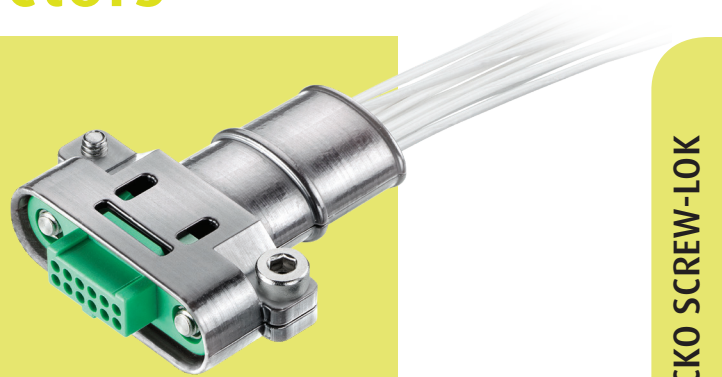
All dimensions in mm.

Patent Published

Gecko Screw-Lok Connectors

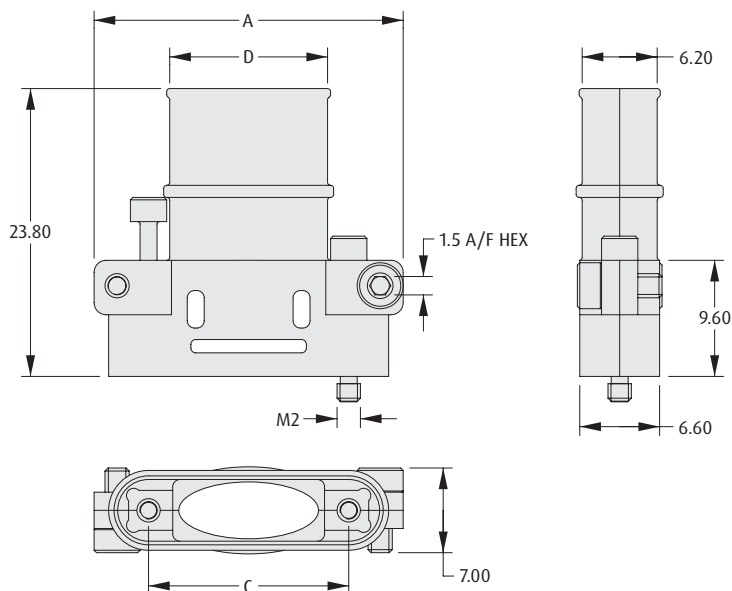
Female Metal Hood / Backshell

- ❖ Supplied as a kit, including 2 metal hood halves, tie-band (not shown), extended fixing screws for female connectors, and short screws to join the two hood halves together.
- ❖ Use with G125-224xx9600 female crimp housings without fixings - fixings are supplied with these hoods.
- ❖ Tie-band can be used to attached external braid, to construct a shielded cable assembly.



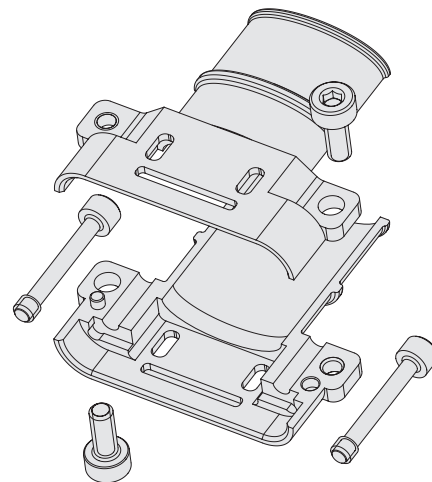
GECKO SCREW-LOK

HOOD / BACKSHELL



CALCULATION

A	$B + 16.8$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 7.8$
D	$B + 4.3$



HOW TO ORDER

G125 - 964 XX F1

SERIES CODE

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

All dimensions in mm.

Patent Published

Gecko Screw-Lok Connectors

Male Vertical PC Tail

- Stainless steel screw fixing to mate with applicable female connector.
- Order nuts for board-mount separately - see bottom of page.
- 2A current capacity, resists high vibration and shock.
- Withstands extremes of temperature: -65°C to +150°C.



WITHOUT BOARD MOUNT		WITH BOARD MOUNT													
<p>Recommended PC Board Pattern</p>		<p>Recommended PC Board Pattern</p>													
<table><tr><th colspan="2">CALCULATION</th></tr><tr><td>A</td><td>B + 12.7</td></tr><tr><td>B</td><td>0.625 x (Total No. of contacts - 2)</td></tr><tr><td>C</td><td>B + 7.8</td></tr><tr><td>D</td><td>B + 1.8</td></tr></table>				CALCULATION		A	B + 12.7	B	0.625 x (Total No. of contacts - 2)	C	B + 7.8	D	B + 1.8		
CALCULATION															
A	B + 12.7														
B	0.625 x (Total No. of contacts - 2)														
C	B + 7.8														
D	B + 1.8														
HOW TO ORDER															
G125 - M V1 XX 05 MX X															
<table><tr><th colspan="2">SERIES CODE</th></tr><tr><td>TYPE</td><td></td></tr><tr><td>V1</td><td>3mm PC Tail</td></tr></table>		SERIES CODE		TYPE		V1	3mm PC Tail	<table><tr><th colspan="2">PACKAGING</th></tr><tr><td>R</td><td>Tape & Reeled</td></tr><tr><td>P</td><td>Loose</td></tr></table>		PACKAGING		R	Tape & Reeled	P	Loose
SERIES CODE															
TYPE															
V1	3mm PC Tail														
PACKAGING															
R	Tape & Reeled														
P	Loose														
<table><tr><th colspan="2">TOTAL NO. OF CONTACTS</th></tr><tr><td colspan="2">06, 10, 12, 16, 20, 26, 34, 50</td></tr></table>		TOTAL NO. OF CONTACTS		06, 10, 12, 16, 20, 26, 34, 50		<table><tr><th colspan="2">SCREW-LOK</th></tr><tr><td>M1</td><td>Internal Thread</td></tr><tr><td>M2</td><td>With 5mm Board Mount Stud</td></tr></table>		SCREW-LOK		M1	Internal Thread	M2	With 5mm Board Mount Stud		
TOTAL NO. OF CONTACTS															
06, 10, 12, 16, 20, 26, 34, 50															
SCREW-LOK															
M1	Internal Thread														
M2	With 5mm Board Mount Stud														
REQUIRED HARDWARE		Order separately from connector													
<p>Hexagonal Board Mount Nut</p> <p>ORDER CODE G125-4500000B</p>		<p>Slotted Board Mount Nut</p> <p>ORDER CODE G125-4510000B</p>													

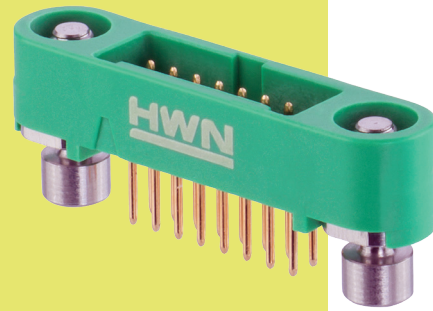
All dimensions in mm.

Patent Published

Gecko Screw-Lok Connectors

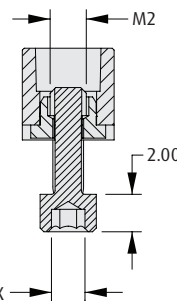
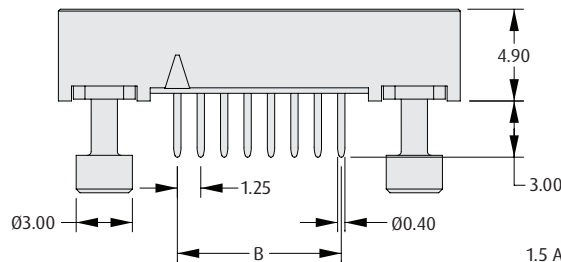
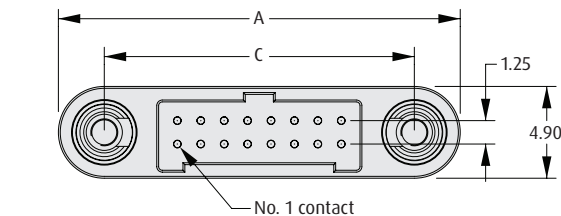
Male Vertical PC Tail - Reverse Fix

- ❖ Stainless steel screw fixing to mate with applicable female connector.
- ❖ Reverse fix screw-lok suitable for board-to-cable applications, where the female connector is located on the PCB.



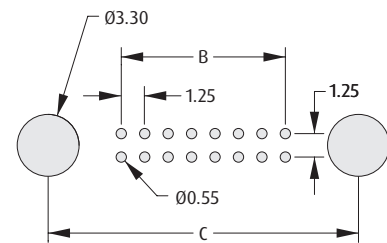
GECKO SCREW-LOK

PC TAIL



CALCULATION

A	$B + 12.7$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 7.8$



Recommended PC Board Pattern

HOW TO ORDER

G125 - M V1 XX 05 M3 X

SERIES CODE

TYPE

V1 3mm PC Tail

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

PACKAGING

R	Tape & Reeled
P	Loose

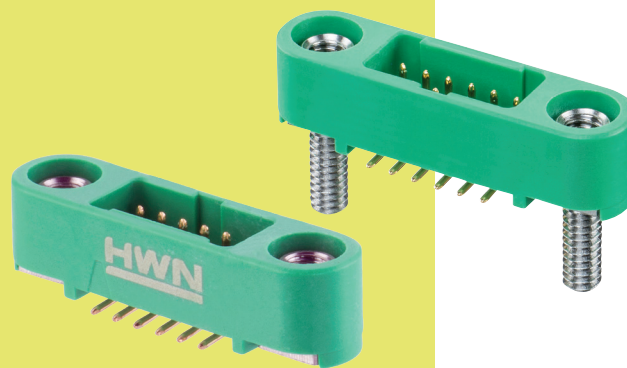
FINISH

05 Gold

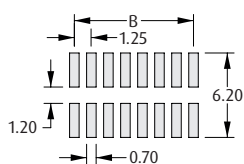
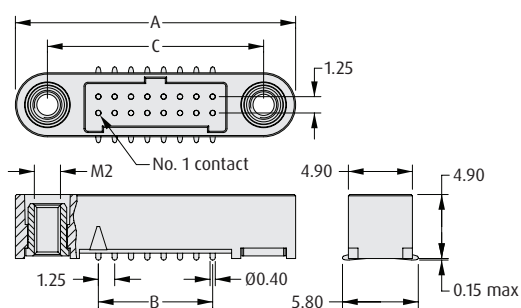
Gecko Screw-Lok Connectors

Male Vertical Surface Mount

- ❖ Stainless steel screw fixing to mate with applicable female connector.
- ❖ Order nuts for board-mount separately - see bottom of page.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.



WITHOUT BOARD MOUNT

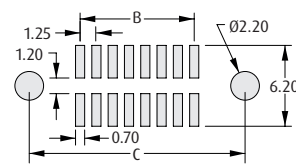
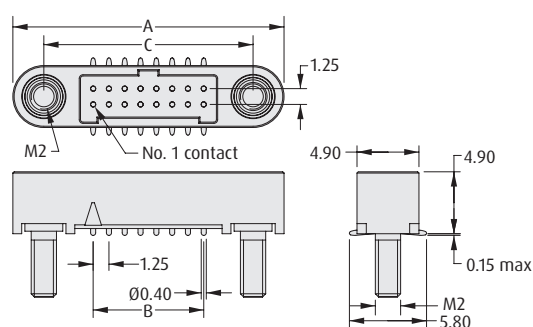


Recommended PC Board Pattern

CALCULATION

A	$B + 12.7$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 7.8$
D	$B + 1.8$

WITH BOARD MOUNT



Recommended PC Board Pattern

HOW TO ORDER

G125 - M S1 XX 05 MX X

SERIES CODE

TYPE

S1 Surface Mount

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

PACKAGING

R	Tape & Reeled
P	Loose

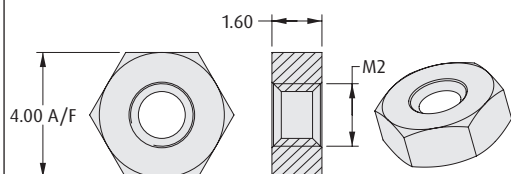
SCREW-LOK

M1	Internal Thread
M2	With 5mm Board Mount Stud

REQUIRED HARDWARE

Order separately from connector

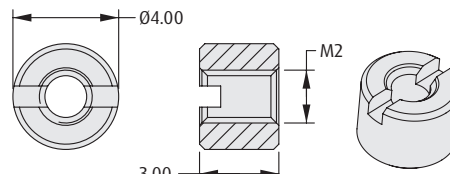
Hexagonal Board Mount Nut



ORDER CODE

G125-4500000B

Slotted Board Mount Nut



ORDER CODE

G125-4510000B

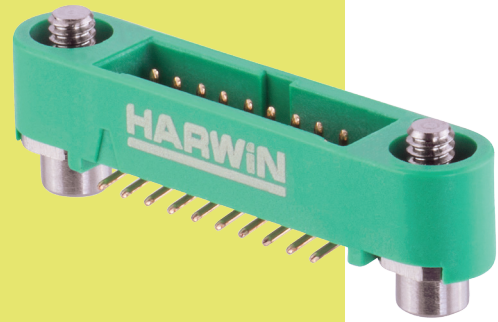
All dimensions in mm.

Patent Published

Gecko Screw-Lok Connectors

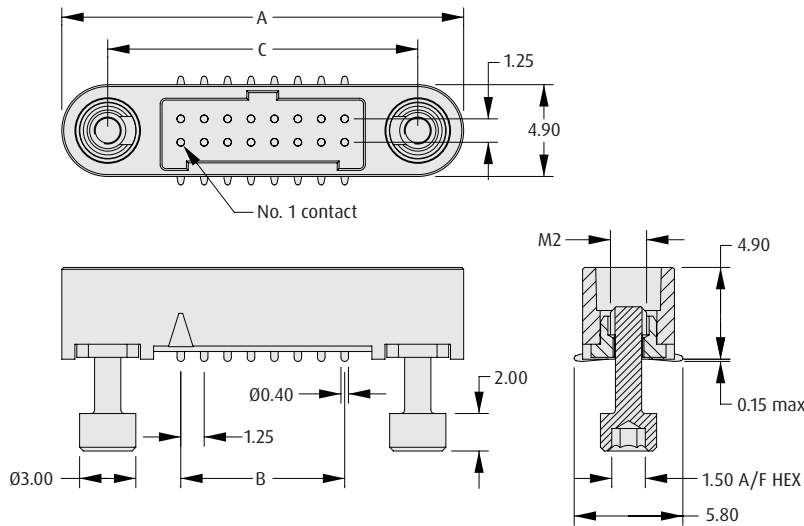
Male Vertical Surface Mount - Reverse Fix

- ❖ Stainless steel screw fixing to mate with applicable female connector.
- ❖ Reverse fix screw-lok suitable for board-to-cable applications, where the female connector is located on the PCB.



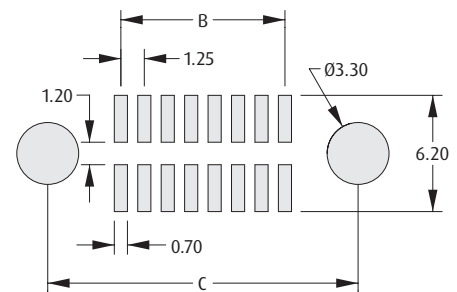
GECKO SCREW-LOK

PC TAIL



CALCULATION

A	$B + 12.7$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 7.8$



Recommended PC Board Pattern

HOW TO ORDER

G125 - M S1 XX 05 M3 X

SERIES CODE

TYPE

S1 Surface Mount

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

PACKAGING

R	Tape & Reeled
P	Loose

FINISH

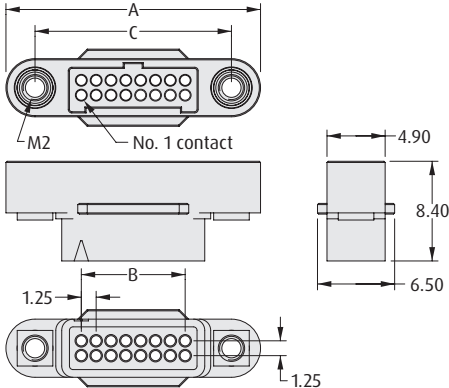
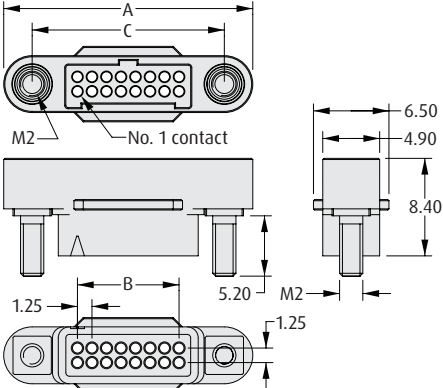
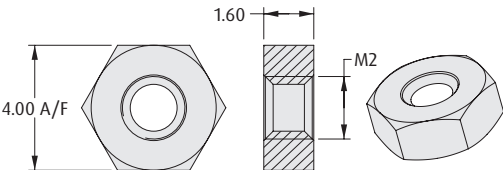
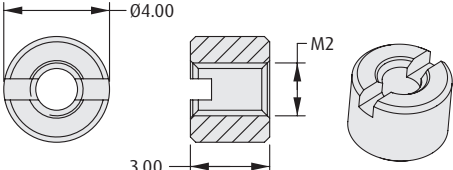
05 Gold

Gecko Screw-Lok Connectors

Male Crimp Housing

- Features 2.5mm potting wall for extra security.
- No. 1 position identified on moulding.
- 3 polarising points on each housing prevent mis-mating.
- Use with male crimp contacts and pre-cabled contacts shown on following pages.
- Order nuts for panel mount separately - see bottom of page.



WITHOUT PANEL MOUNT		WITH PANEL MOUNT															
																	
<table><tr><th colspan="2">CALCULATION</th></tr><tr><td>A</td><td>B + 12.7</td></tr><tr><td>B</td><td>0.625 x (Total No. of contacts - 2)</td></tr><tr><td>C</td><td>B + 7.8</td></tr></table>				CALCULATION		A	B + 12.7	B	0.625 x (Total No. of contacts - 2)	C	B + 7.8						
CALCULATION																	
A	B + 12.7																
B	0.625 x (Total No. of contacts - 2)																
C	B + 7.8																
HOW TO ORDER																	
<p style="text-align: center;">G125 - 324 XX 96 XX</p>																	
<table><tr><th colspan="2">SERIES CODE</th></tr><tr><td colspan="2"></td></tr><tr><th colspan="2">TYPE</th></tr><tr><td>324</td><td>Male Housing</td></tr></table>		SERIES CODE				TYPE		324	Male Housing	<table><tr><th colspan="2">SCREW-LOK</th></tr><tr><td>M1</td><td>Internal Thread</td></tr><tr><td>M2</td><td>With 5mm Panel Mount stud</td></tr></table>		SCREW-LOK		M1	Internal Thread	M2	With 5mm Panel Mount stud
SERIES CODE																	
TYPE																	
324	Male Housing																
SCREW-LOK																	
M1	Internal Thread																
M2	With 5mm Panel Mount stud																
<table><tr><th colspan="2">TOTAL NO. OF CONTACTS</th></tr><tr><td>06, 10, 12, 16, 20, 26, 34, 50</td><td></td></tr></table>		TOTAL NO. OF CONTACTS		06, 10, 12, 16, 20, 26, 34, 50		<table><tr><th colspan="2">FINISH</th></tr><tr><td>96</td><td>Housing</td></tr></table>		FINISH		96	Housing						
TOTAL NO. OF CONTACTS																	
06, 10, 12, 16, 20, 26, 34, 50																	
FINISH																	
96	Housing																
TOOLS																	
<p>Recommended Crimp Tool – Z125-900</p> <p>Positioner – Z125-901</p> <p>Contact Insertion/Removal Tool – Z125-902</p>		<p>Male contacts shown on following pages.</p> <p>Instruction sheets available at www.harwin.com/instructions.</p>															
REQUIRED HARDWARE		Order separately from connector															
<p>Hexagonal Board Mount Nut</p>  <table><tr><th colspan="2">ORDER CODE</th></tr><tr><td colspan="2">G125-4500000B</td></tr></table>		ORDER CODE		G125-4500000B		<p>Slotted Board Mount Nut</p>  <table><tr><th colspan="2">ORDER CODE</th></tr><tr><td colspan="2">G125-4510000B</td></tr></table>		ORDER CODE		G125-4510000B							
ORDER CODE																	
G125-4500000B																	
ORDER CODE																	
G125-4510000B																	

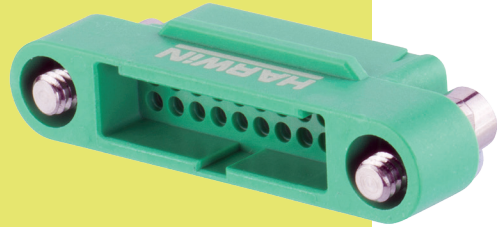
All dimensions in mm.

Patent Published

Gecko Connectors

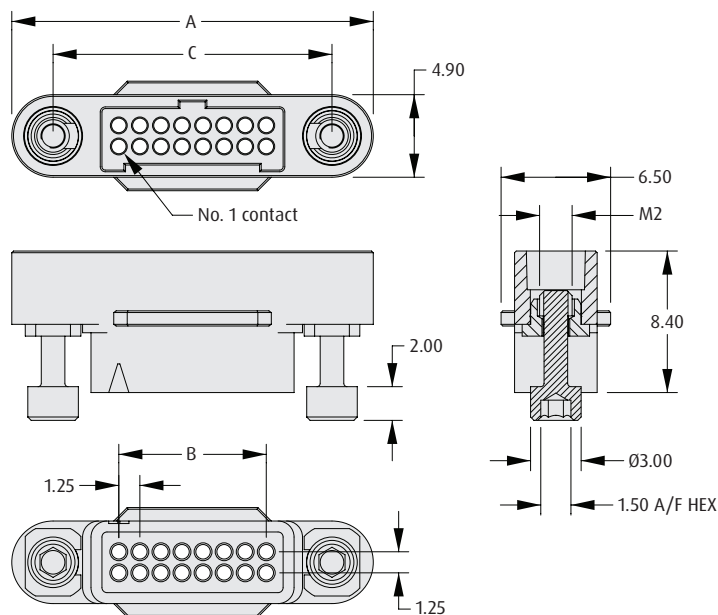
Male Crimp Housing - Reverse Fix

- ❖ Features 2.5mm potting wall for extra security.
- ❖ Use with male crimp contacts and pre-cabled contacts shown on following pages.
- ❖ Stainless steel screw fixing to mate with applicable female connector.
- ❖ Reverse fix screw-lok suitable for board-to-cable applications, where the female connector is located on the PCB.



GECKO SCREW-LOK

FEMALE



CALCULATION

A	$B + 12.7$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 7.8$

TOOLS

Recommended Crimp Tool - Z125-900

Positioner - Z125-901

Contact Insertion/Removal Tool - Z125-902

❖ Male contacts shown on following pages.

❖ Instruction sheets available at www.harwin.com/instructions.

HOW TO ORDER

SERIES CODE		G125 - 324	XX	96	M3	FINISH	
TYPE						96	Housing
324	Male Housing					TOTAL NO. OF CONTACTS	
						06, 10, 12, 16, 20, 26, 34, 50	

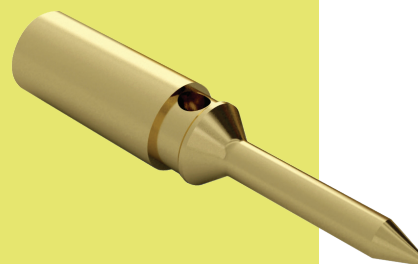
All dimensions in mm.

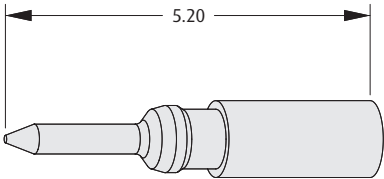
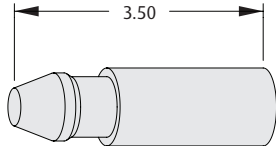
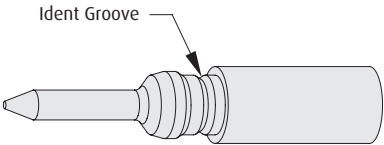
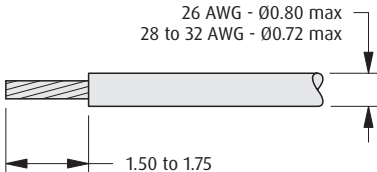
Patent Published

Gecko Screw-Lok Connectors

Male Crimp Contacts, Dummy Contact

- ❖ Crimp barrel meets all crimp guidelines and standards.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.
- ❖ Instruction video online at www.harwin.com/harwintv.
- ❖ Dummy Contact can be used for additional polarisation of keying of multiple connectors. Also called Blanking Plug.



CONTACTS		DUMMY CONTACT									
<p>26 AWG</p> 											
<p>28 – 32 AWG</p> 		WIRE STRIPPING DETAILS									
											
TOOLS											
<p>Recommended Crimp Tool – Z125-900</p> <p>Positioner – Z125-901</p> <p>Contact Insertion/Removal Tool – Z125-902</p>		<ul style="list-style-type: none">❖ Male crimp housings shown on previous pages.❖ Pre-cabled contacts shown on following page.❖ Instruction sheets available at www.harwin.com/instructions.									
HOW TO ORDER											
<p>G125 – XXX 00 05</p>											
<p>SERIES CODE</p>		<p>FINISH</p> <table><tr><td>05</td><td>Gold</td></tr></table>		05	Gold						
05	Gold										
<table><tr><th colspan="2">TYPE</th></tr><tr><td>101</td><td>Male 26 AWG crimp contact</td></tr><tr><td>102</td><td>Male 28-32 AWG crimp contact</td></tr><tr><td>020</td><td>Dummy Contact (blanking plug)</td></tr></table>		TYPE		101	Male 26 AWG crimp contact	102	Male 28-32 AWG crimp contact	020	Dummy Contact (blanking plug)		
TYPE											
101	Male 26 AWG crimp contact										
102	Male 28-32 AWG crimp contact										
020	Dummy Contact (blanking plug)										

All dimensions in mm.

Patent Published

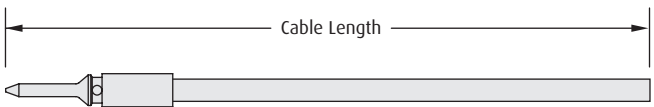
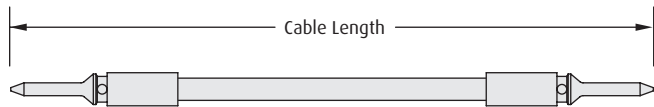
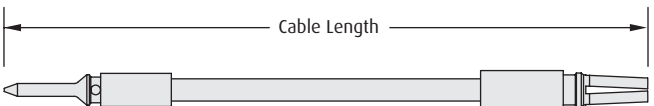
Gecko Screw-Lok Connectors

Male Crimp Contacts – Pre-Crimped Wires

- Ready for assembling to housing.
- Crimp barrel meets all crimp guidelines and standards.
- 2A current capacity, resists high vibration and shock.
- Withstands extremes of temperature: -65°C to +150°C.
- For non-standard cable lengths, please visit harwin.com/cable-assemblies and fill in your requirements.



GECKO SCREW-LOK

MALE SINGLE ENDED	MALE – MALE
	
MALE – FEMALE	TOOLS
	<p>Contact Insertion/Removal Tool – Z125-902</p> <ul style="list-style-type: none"> ➤ Male crimp housings and loose contacts shown on previous pages. ➤ Instruction sheets available at www.harwin.com/instructions.

HOW TO ORDER

G125 – M WX XXXX X 94

SERIES CODE

GENDER – FIRST END

M Male

CABLE SIZE

W1	26 AWG
W2	28 AWG
W3	30 AWG
W4	32 AWG

CABLE COLOUR

94 White

TERMINATION – SECOND END

L	Loose cut end
F	Female
M	Male

CABLE LENGTH

0150	150mm
0300	300mm (double-ended)
0450	450mm (single-ended)

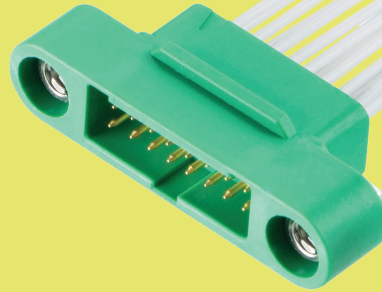
All dimensions in mm.

Patent Published

Gecko Connectors

Male Cable Assemblies

- ❖ 4-finger Beryllium Copper contact.
- ❖ No. 1 position identified on moulding.
- ❖ Stainless steel screw fixing to mate with applicable male connector.
- ❖ Back potted for added strain relief.
- ❖ For non-standard cable lengths, please visit harwin.com/cable-assemblies and fill in your requirements.



PART NUMBERING SYSTEM

G125 - M C X XX 05 M1 - XXXX XX

SERIES CODE

GENDER - FIRST END

M	Male
---	------

CABLE SIZE

1	26 AWG
2	28 AWG

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

TERMINATION - SECOND END

L	Loose cut end
F0	Female connector No fixings (use with Metal Hoods)
F1	Female connector Floating Hex Socket fixings
M	Male connector

CABLE LENGTH

0150	150mm
0300	300mm (double-ended)
0450	450mm (single-ended)

SCREW-LOK

M1	Internal thread
----	-----------------

FINISH

05	Gold
----	------

Male Cable Assemblies

- ❖ See previous page for cable length options.
- ❖ Cable assemblies are constructed with Contact 1 attached to Contact 1, Contact 2 to Contact 2, etc.

<div> <div>MALE SINGLE ENDED</div> <div> </div> <div> <div>ORDER CODE</div> <div>G125-MCXXX05M1-XXXXL</div> </div> </div>	
<div> <div>MALE – FEMALE</div> <div> </div> <div> <div>ORDER CODE</div> <div>G125-MCXXX05M1-XXXXF1</div> </div> </div>	<div> <div>MALE – MALE</div> <div> </div> <div> <div>ORDER CODE</div> <div>G125-MCXXX05M1-XXXXM1</div> </div> </div>

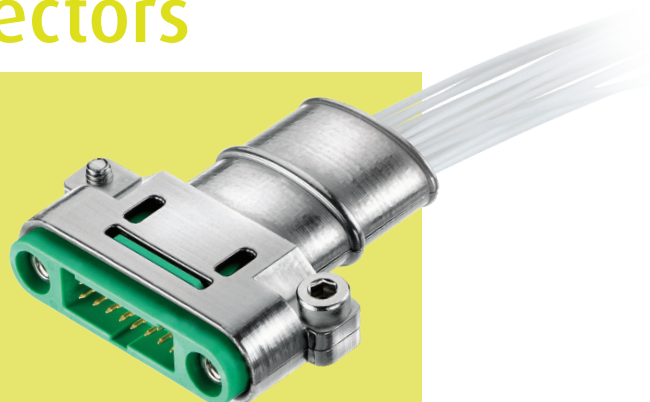
All dimensions in mm.

Patent Published

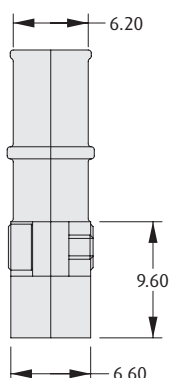
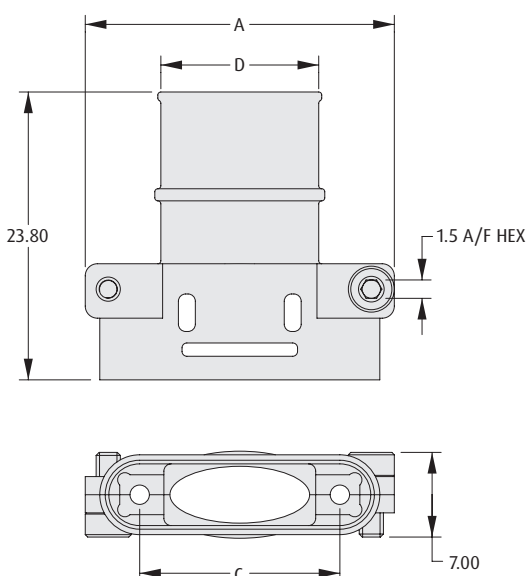
Gecko Screw-Lok Connectors

Male Metal Hood / Backshell

- ❖ Supplied as a kit, including 2 metal hood halves, tie-band (not shown), and short screws to join the two hood halves together.
- ❖ Use with G125-324xx96M1 male crimp housings.
- ❖ Tie-band can be used to attached external braid, to construct a shielded cable assembly.

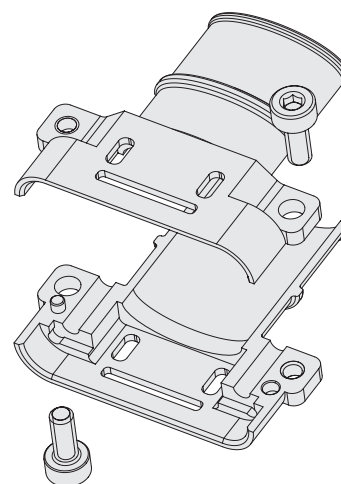


HOOD / BACKSHELL



CALCULATION

A	$B + 16.8$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 7.8$
D	$B + 4.3$



HOW TO ORDER

G125 - 964 XX 00

SERIES CODE

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

Gecko Screw-Lok Connectors

Throughboard Metal Hood / Backshell

- ❖ Use with G125-MV1xx05M2x connectors for EMC shielding on a PCB mounted application.
- ❖ Use with G125-324xx96M2 connectors for EMC shielding on a panel mount application.
- ❖ Mating female cable connector G125-224xx9600 to be fitted with metal backshell G125-964xxF1 for complete EMC shielded connection.

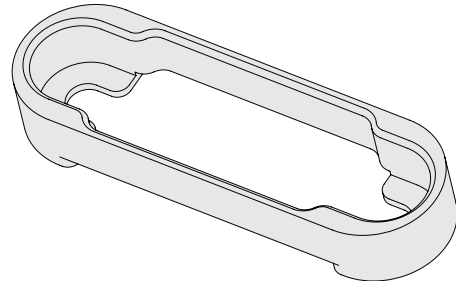
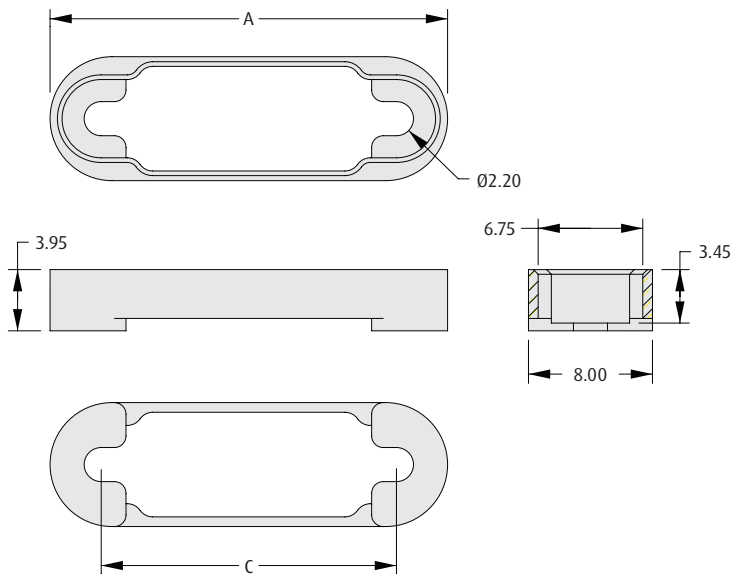


GECKO SCREW-LOK

HOOD / BACKSHELL

CALCULATION

A	$B + 14.4$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 7.8$



HOW TO ORDER

G125 - 960 XX 02

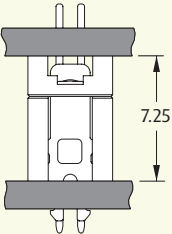
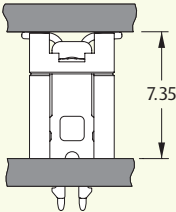
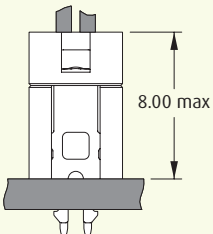
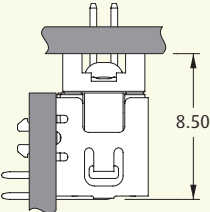
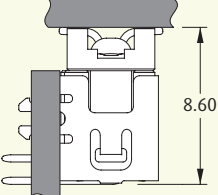
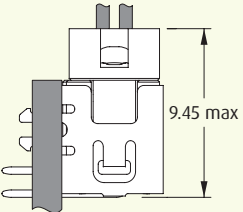
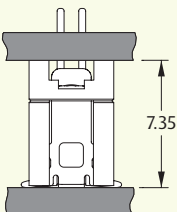
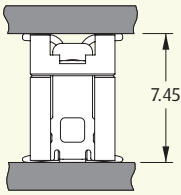
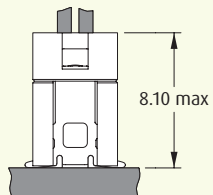
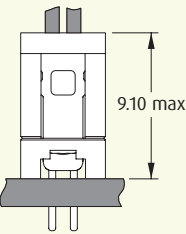
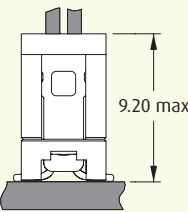
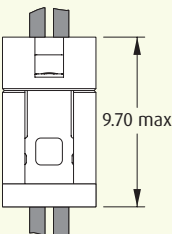
SERIES CODE

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

Gecko with Latches Mating Profiles

GEEKO WITH LATCHES

		FEMALE		
		VERTICAL PC TAIL	VERTICAL SMT	CABLE
MALE	VERTICAL PC TAIL			
	HORIZONTAL PC TAIL			
	VERTICAL SMT			
	CABLE			

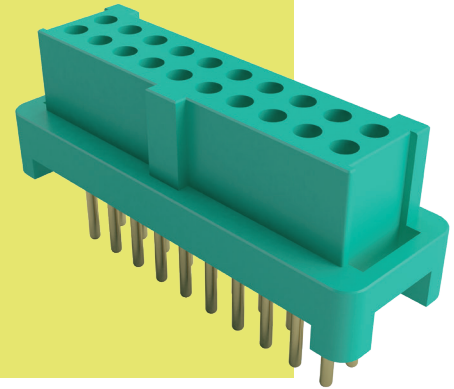
All dimensions in mm.

Patent Published

Gecko with Latches Connectors

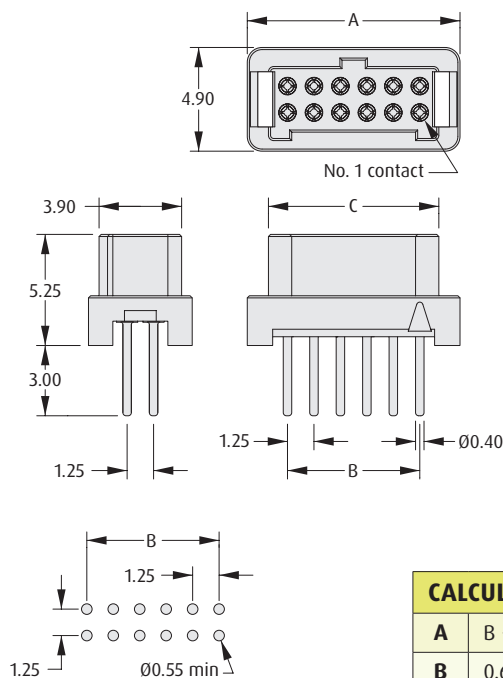
Female PC Tail

- ❖ 4-finger Beryllium Copper contact.
- ❖ Positive keyway polarisation features.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.



GECKO WITH LATCHES

3mm PC TAIL

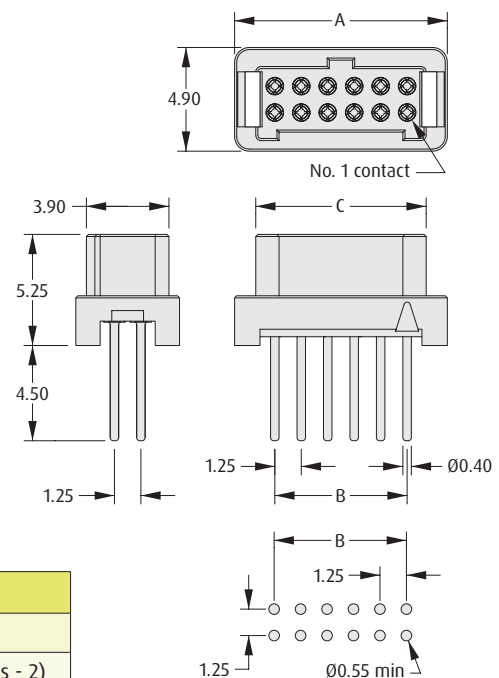


Recommended PC Board Pattern

CALCULATION

A	$B + 3.8$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 1.8$

4.5mm PC TAIL



Recommended PC Board Pattern

HOW TO ORDER

G125 - F VX XX 05 L0 X

SERIES CODE

TYPE

V1	3mm PC Tail
V2	4.5mm PC Tail

PACKAGING

R	Tape & Reeled
P	Loose

FINISH

05	Gold
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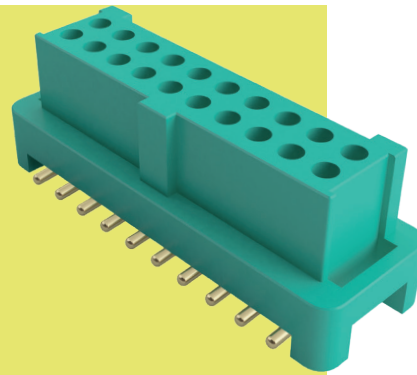
TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

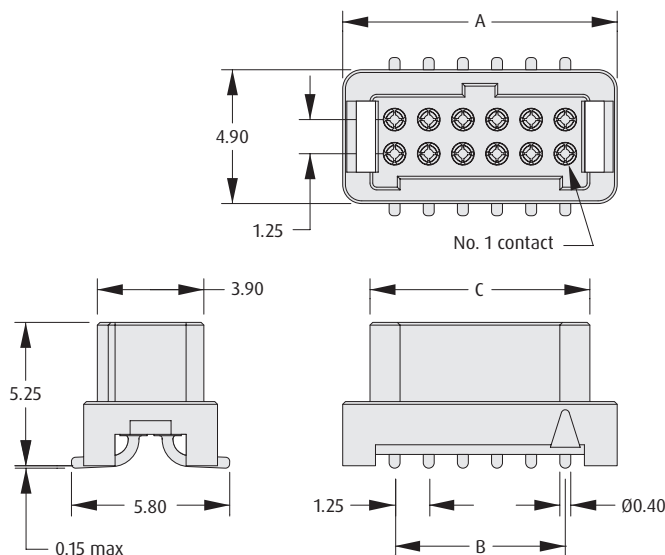
Gecko with Latches Connectors

Female Surface Mount

- ❖ 4-finger Beryllium Copper contact.
- ❖ Positive keyway polarisation features.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.
- ❖ Available in Tape and Reel Packaging, with Pick and Place cap.

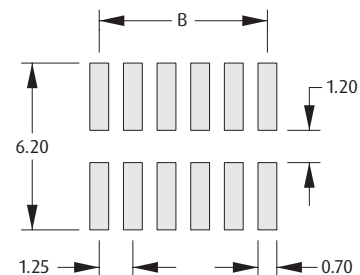


SURFACE MOUNT



CALCULATION

A	$B + 3.8$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 1.8$



Recommended PC Board Pattern

HOW TO ORDER

G125 - F S1 XX 05 L0 X

SERIES CODE

TYPE

S1 Surface Mount

PACKAGING

R	Tape & Reeled
P	Loose

FINISH

05 Gold

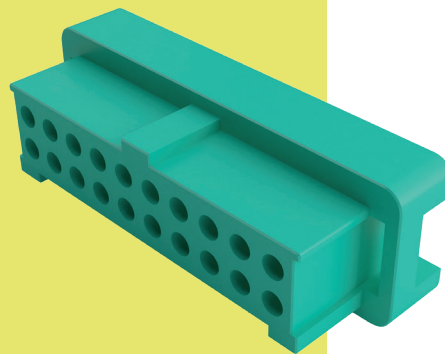
TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

Gecko with Latches Connectors

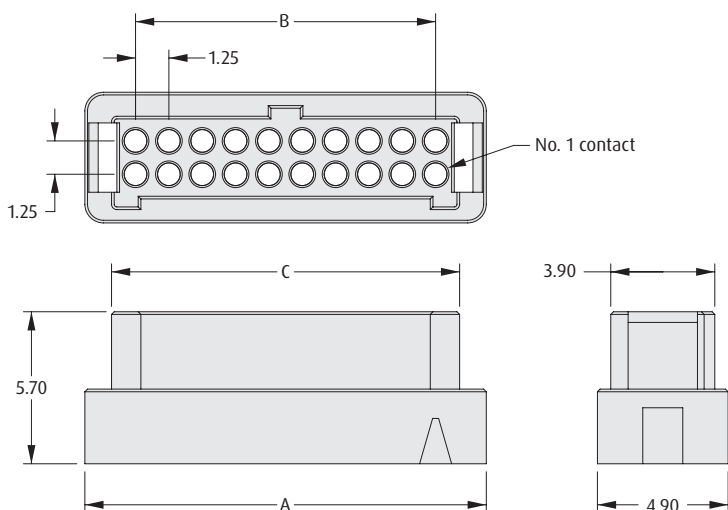
Female Crimp Housings

- ❖ Features potting wall for extra security.
- ❖ No. 1 position identified on moulding.
- ❖ Withstands extremes of temperature: -65°C to +150°C.
- ❖ 3 polarising points on each housing prevent mis-mating.



GECKO WITH LATCHES

FEMALE



CALCULATION

A	$B + 3.8$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 1.8$

TOOLS

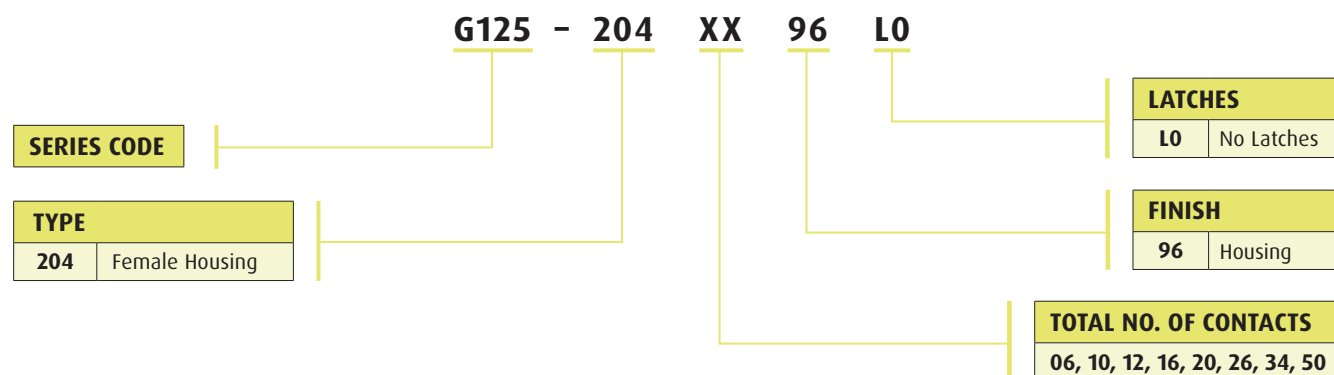
Recommended Crimp Tool - Z125-900

Positioner - Z125-901

Contact Insertion/Removal Tool - Z125-902

- ❖ Female contacts shown on following pages.
- ❖ Instruction sheets available at www.harwin.com/instructions.

HOW TO ORDER



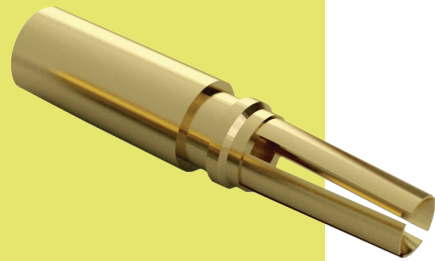
All dimensions in mm.

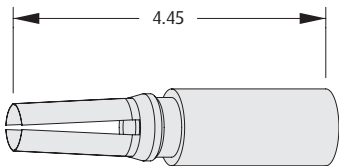
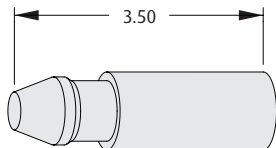
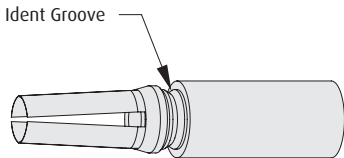
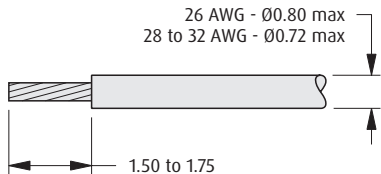
Patent Published

Gecko with Latches Connectors

Female Crimp Contacts, Dummy Contact

- ❖ 4-finger Beryllium Copper contact on a female connector.
- ❖ Crimp barrel meets all crimp guidelines and standards.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.
- ❖ Instruction video online at www.harwin.com/harwintv.
- ❖ Dummy Contact can be used for additional polarisation of keying of multiple connectors. Also called Blanking Plug.



CONTACTS		DUMMY CONTACT										
<div>26 AWG</div> <div></div>		<div></div>										
<div>28 – 32 AWG</div> <div></div>		<div>WIRE STRIPPING DETAILS</div> <div></div>										
TOOLS												
<div>Recommended Crimp Tool – Z125-900</div> <div>Positioner – Z125-901</div> <div>Contact Insertion/Removal Tool – Z125-902</div>		<div>❖ Female crimp housing shown on previous page.</div> <div>❖ Pre-cabled contacts shown on following page.</div> <div>❖ Instruction sheets available at www.harwin.com/instructions.</div>										
HOW TO ORDER												
<div><div>G125 – 0XX 00 05</div><div><div>SERIES CODE</div><div><table><tr><th>TYPE</th></tr><tr><td>001</td><td>Female 26 AWG crimp contact</td></tr><tr><td>002</td><td>Female 28-32 AWG crimp contact</td></tr><tr><td>020</td><td>Dummy Contact (blanking plug)</td></tr></table></div></div><div><div>FINISH</div><div><table><tr><td>05</td><td>Gold</td></tr></table></div></div></div>				TYPE	001	Female 26 AWG crimp contact	002	Female 28-32 AWG crimp contact	020	Dummy Contact (blanking plug)	05	Gold
TYPE												
001	Female 26 AWG crimp contact											
002	Female 28-32 AWG crimp contact											
020	Dummy Contact (blanking plug)											
05	Gold											

All dimensions in mm.

Patent Published

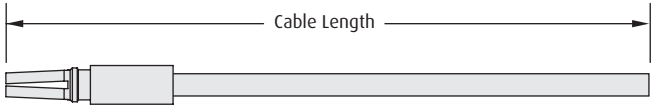
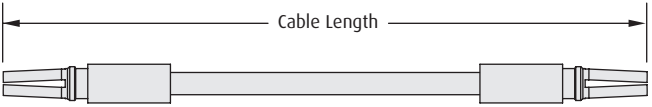
Gecko with Latches Connectors

Female Crimp Contacts – Pre-Crimped Wires

- ❖ 4-finger Beryllium Copper contact.
- ❖ Ready for assembling to housing.
- ❖ Crimp barrel meets all crimp guidelines and standards.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.
- ❖ For non-standard cable lengths, please visit harwin.com/cable-assemblies and fill in your requirements.



GECKO WITH LATCHES

FEMALE SINGLE ENDED		FEMALE – FEMALE															
																	
TOOLS																	
Contact Insertion/Removal Tool – Z125-902		<ul style="list-style-type: none">❖ Female crimp housing and loose contacts shown on previous pages.❖ Full Cable assemblies shown on following page.❖ Instruction sheets available at www.harwin.com/instructions.															
HOW TO ORDER																	
<div><div>SERIES CODE</div><div>GENDER - FIRST END</div><div>CABLE SIZE</div></div> <div>G125 - F WX XXXX X 94</div> <div><div>CABLE COLOUR</div><div>TERMINATION - SECOND END</div><div>CABLE LENGTH</div></div>																	
<table><tr><td>F</td><td>Female</td></tr></table>		F	Female	<table><tr><td>94</td><td>White</td></tr><tr><td>L</td><td>Loose cut end</td></tr><tr><td>F</td><td>Female</td></tr></table>		94	White	L	Loose cut end	F	Female						
F	Female																
94	White																
L	Loose cut end																
F	Female																
<table><tr><td>W1</td><td>26 AWG</td></tr><tr><td>W2</td><td>28 AWG</td></tr><tr><td>W3</td><td>30 AWG</td></tr><tr><td>W4</td><td>32 AWG</td></tr></table>		W1	26 AWG	W2	28 AWG	W3	30 AWG	W4	32 AWG	<table><tr><td>0150</td><td>150mm</td></tr><tr><td>0300</td><td>300mm (double-ended)</td></tr><tr><td>0450</td><td>450mm (single-ended)</td></tr></table>		0150	150mm	0300	300mm (double-ended)	0450	450mm (single-ended)
W1	26 AWG																
W2	28 AWG																
W3	30 AWG																
W4	32 AWG																
0150	150mm																
0300	300mm (double-ended)																
0450	450mm (single-ended)																

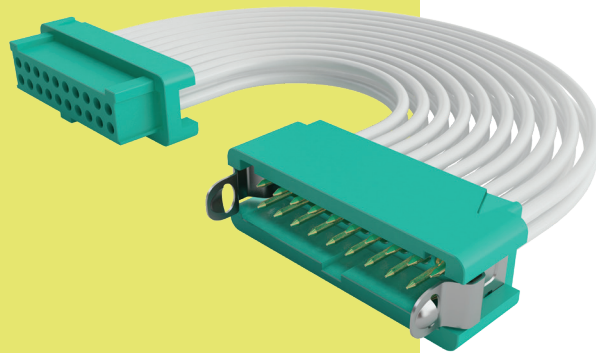
All dimensions in mm.

Patent Published

Gecko with Latches Connectors

Female Cable Assemblies

- ❖ 4-finger Beryllium Copper contact.
- ❖ No. 1 position identified on moulding.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.
- ❖ Back potted for added strain relief.
- ❖ For non-standard cable lengths, please visit harwin.com/cable-assemblies and fill in your requirements.



PART NUMBERING SYSTEM

G125 - F C X XX 05 L0 - XXXX X

SERIES CODE

GENDER - FIRST END

F Female

CABLE SIZE

1	26 AWG
2	28 AWG
3	30 AWG
4	32 AWG

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

TERMINATION - SECOND END

L	Loose cut end
F	Female connector

CABLE LENGTH

0150	150mm
0300	300mm (double-ended)
0450	450mm (single-ended)

LATCHES

L0 No Latches

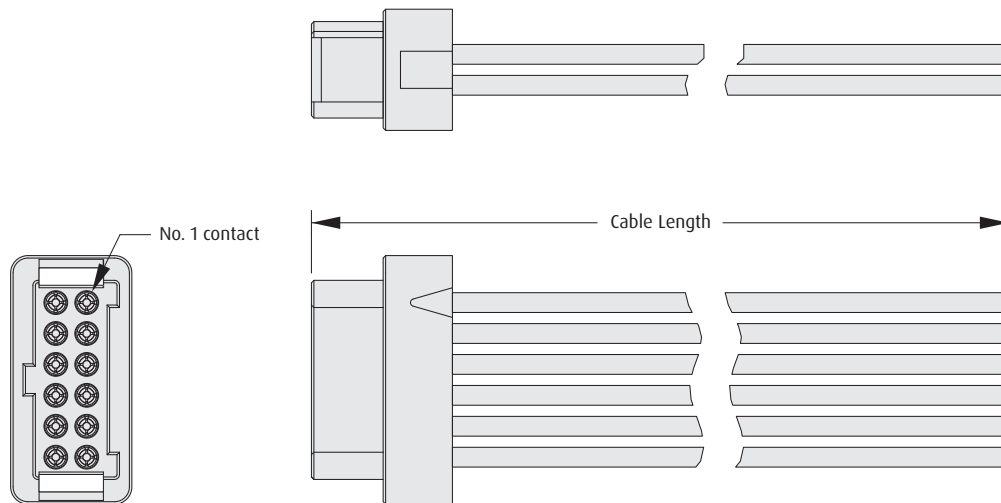
FINISH

05 Gold

Female Cable Assemblies

- ❖ See previous page for cable length options.
- ❖ Cable assemblies are constructed with Contact 1 attached to Contact 1, Contact 2 to Contact 2, etc.

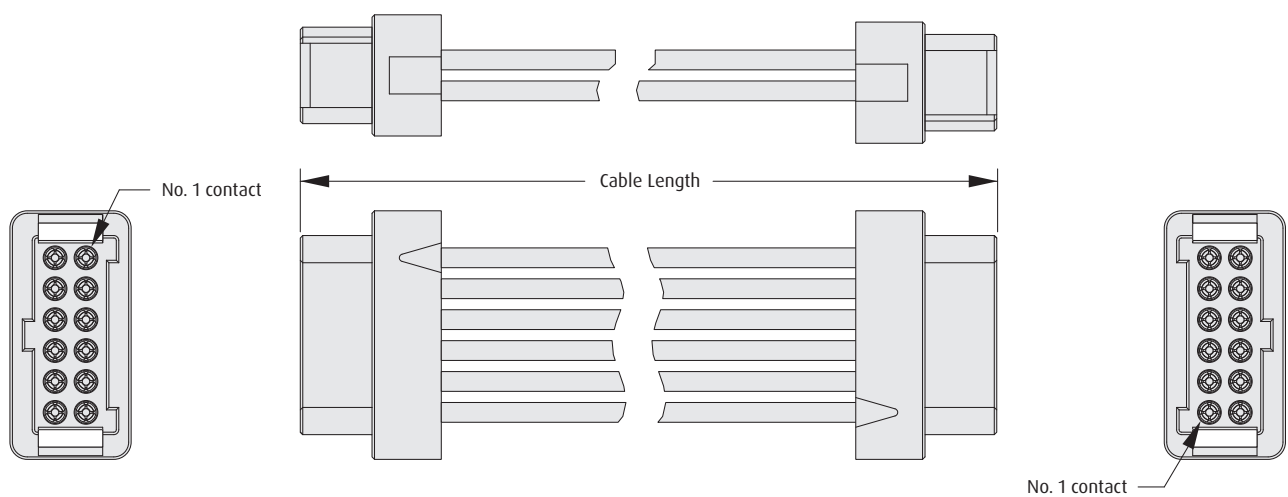
FEMALE SINGLE ENDED



ORDER CODE

G125-FCXXX05L0-XXXXL

FEMALE – FEMALE



ORDER CODE

G125-FCXXX05L0-XXXXF

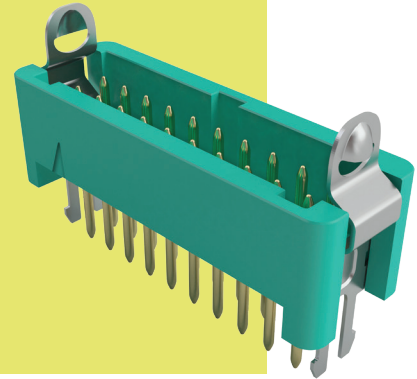
All dimensions in mm.

Patent Published

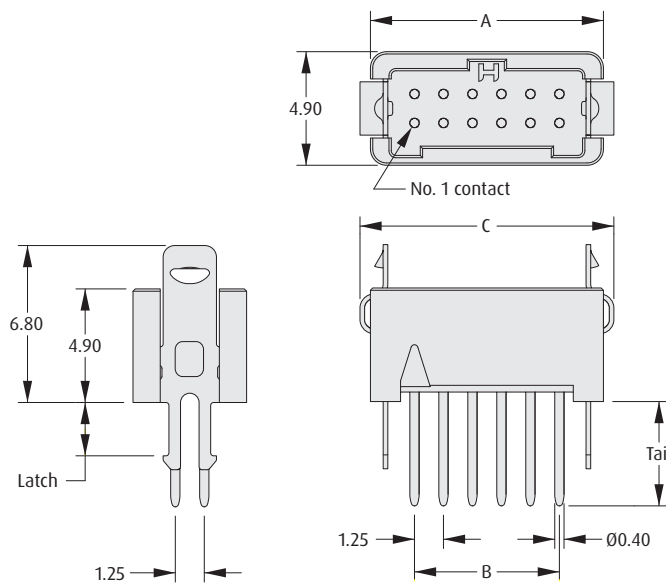
Gecko with Latches Connectors

Male Vertical PC Tail

- Secure fixing to the PCB via retention barbs for through hole.
- Easy-to-release latches require no tooling.
- 2A current capacity, resists high vibration and shock.
- Withstands extremes of temperature: -65°C to +150°C.

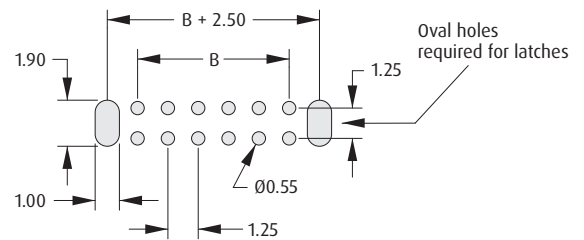


PC TAIL



CALCULATION

A	$B + 3.8$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 5.5$



Recommended PC Board Pattern

HOW TO ORDER

G125 - M VX XX 05 LX X

SERIES CODE

TYPE

V1	3mm PC Tail
V2	4.5mm PC Tail

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

PACKAGING

R	Tape & Reeled
P	Loose

LATCH

L0	No Latch
L1	Latch for 1.6mm PCB (use with V1)
L2	Latch for 2.4mm PCB (use with V2)

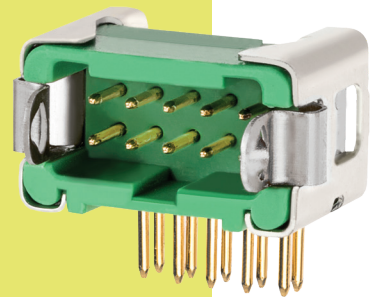
FINISH

05 Gold

Gecko with Latches Connectors

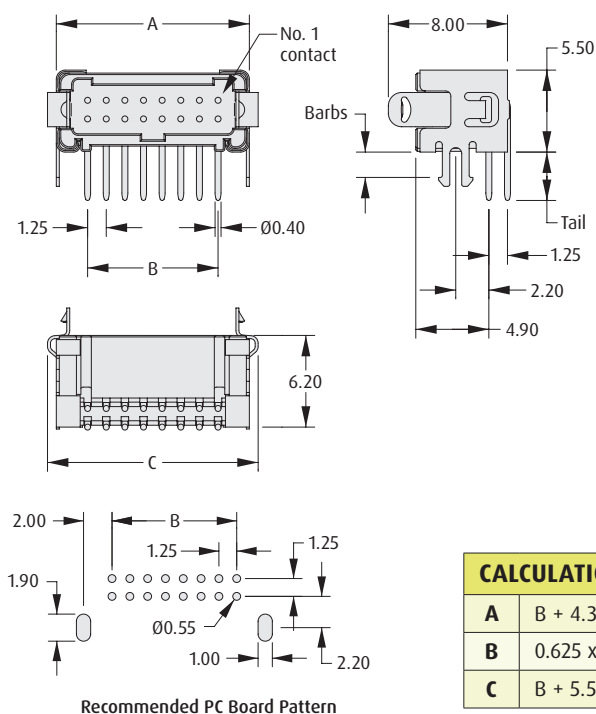
Male Horizontal PC Tail – Latched

- ❖ Secure fixing to the PCB via retention barbs for through hole.
- ❖ Surface mount option for automated assembly.
- ❖ Easy-to-release latches – tooling available for additional assistance with releasing latches – see part numbers **Z125-926xx00**.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.

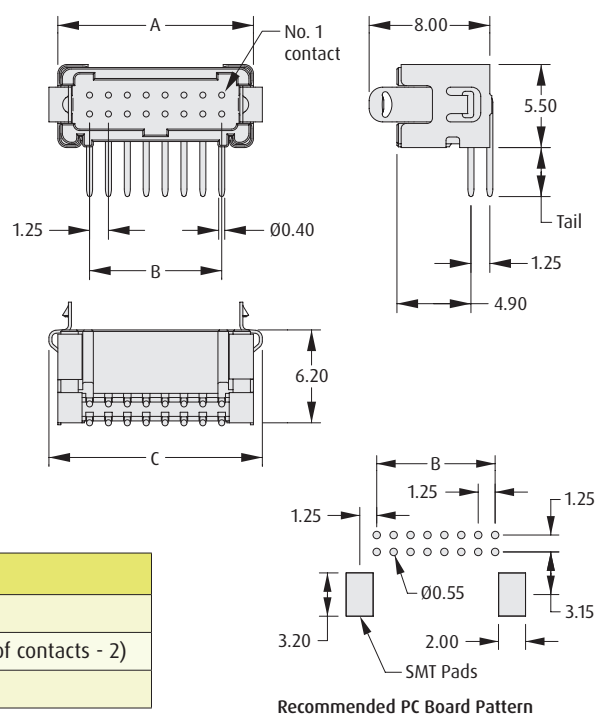


GECKO WITH LATCHES

PC TAIL LATCH



SURFACE MOUNT LATCH



CALCULATION

A	$B + 4.3$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 5.5$

HOW TO ORDER

G125 - M HX XX 05 LX X

SERIES CODE

TYPE

H1	3.3mm PC Tail
H2	4.8mm PC Tail

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

PACKAGING

R	Tape & Reeled
P	Loose

LATCH

L1	Barbs for 3.3mm PC Tail
L2	Barbs for 4.8mm PC Tail
L3	Surface Mount Latch

FINISH

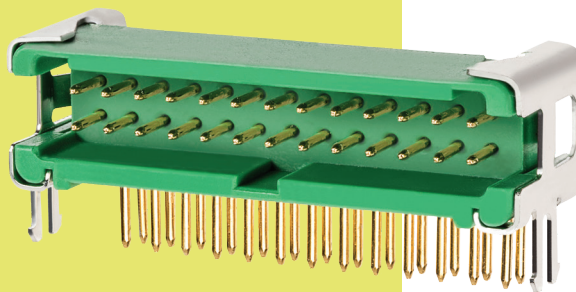
05	Gold
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All dimensions in mm.

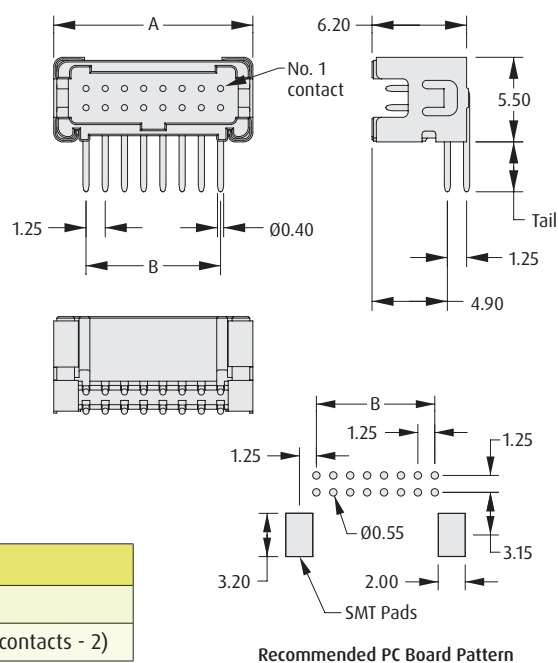
Patent Published

GECKO WITH LATCHES

- Secure fixing to the PCB via retention barbs for through hole.
- Surface mount option for automated assembly.
- 2A current capacity.
- Withstands extremes of temperature: -65°C to +150°C.



SURFACE MOUNT FIXING



HOW TO ORDER

G125 - M HX XX 05 LX X

TYPE

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

R

R	Tape & Reeled
P	Loose

L5

L5	Barbs for 3.3mm PC Tail
L6	Barbs for 4.8mm PC Tail
L7	Surface Mount Fixing

05

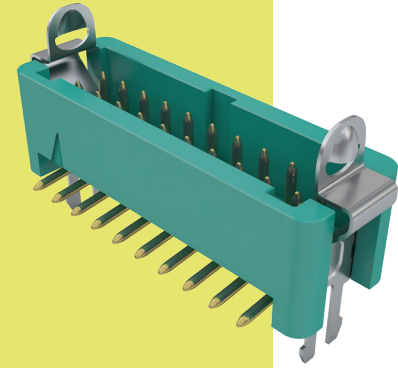
05	Gold
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Patent Published

Gecko with Latches Connectors

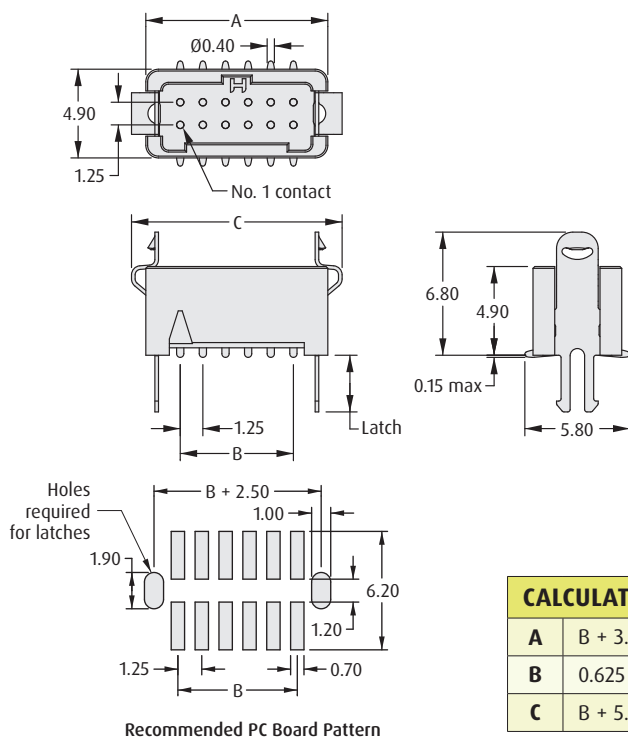
Male Vertical Surface Mount

- Secure fixing to the PCB via hold-down tabs (SMT).
- Easy-to-release latches require no tooling.
- 2A current capacity, resists high vibration and shock.
- Withstands extremes of temperature: -65°C to +150°C.

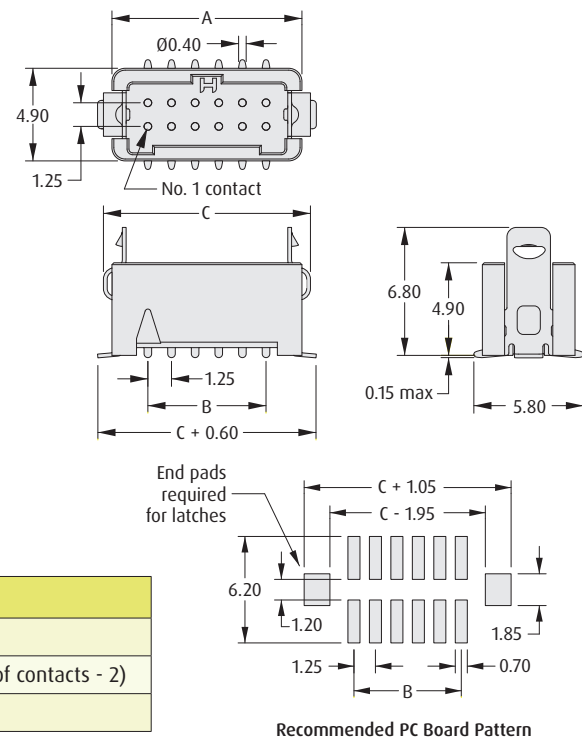


GECKO WITH LATCHES

PC TAIL LATCH



SURFACE MOUNT LATCH



CALCULATION

A	$B + 3.8$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 5.5$

HOW TO ORDER

G125 - M S1 XX 05 LX X

SERIES CODE

TYPE

S1 Surface Mount

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

FINISH

05 Gold

PACKAGING

R	Tape & Reeled
P	Loose

LATCH

L0	No Latch
L1	Latch for 1.6mm PCB
L2	Latch for 2.4mm PCB
L3	Surface Mount Latch

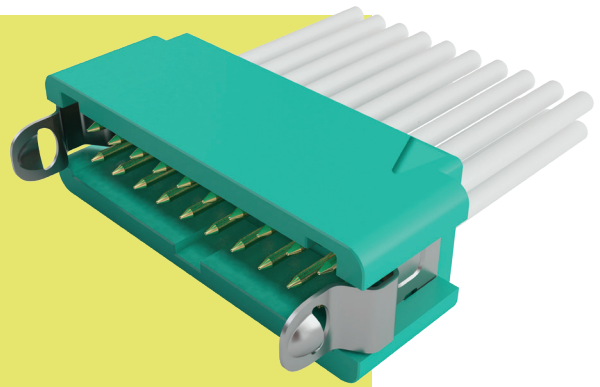
All dimensions in mm.

Patent Published

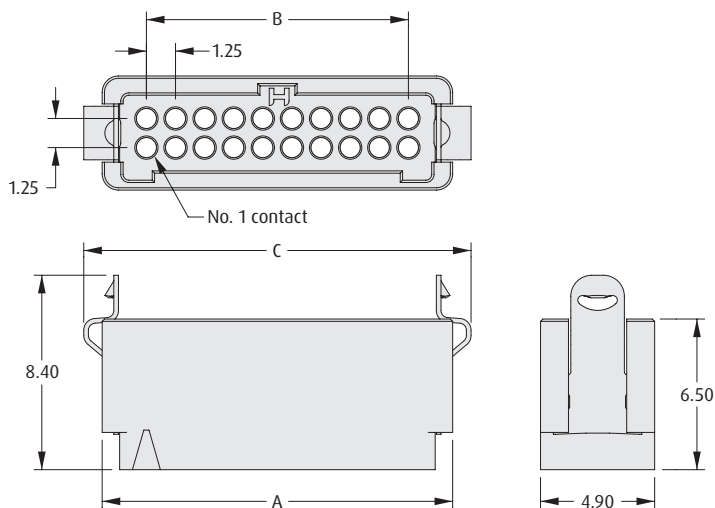
Gecko with Latches Connectors

Male Crimp Housing

- ❖ Features potting wall for extra security.
- ❖ No. 1 position identified on moulding.
- ❖ Withstands extremes of temperature: -65°C to +150°C.
- ❖ 3 polarising points on each housing prevent mis-mating.
- ❖ Easy to release latches require no tooling.



MALE



CALCULATION

A	$B + 3.8$
B	$0.625 \times (\text{Total No. of contacts} - 2)$
C	$B + 5.5$

TOOLS

Recommended Crimp Tool - Z125-900

Positioner - Z125-901

Contact Insertion/Removal Tool - Z125-902

❖ Male contacts shown on following pages.

❖ Instruction sheets available at www.harwin.com/instructions.

HOW TO ORDER

G125 - 304 XX 96 LX

SERIES CODE

TYPE

304 Male Housing

LATCH

L0	No Latches
L4	Latches (Male Only)

FINISH

96 Housing

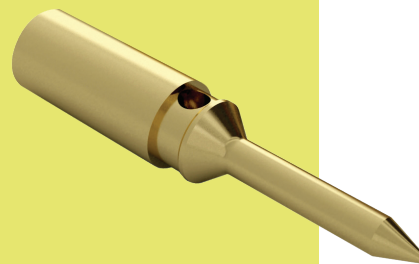
TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

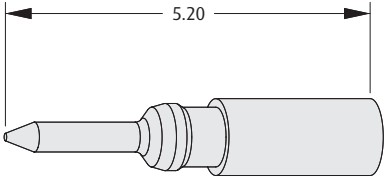
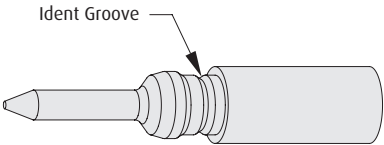
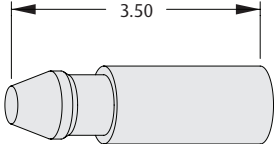
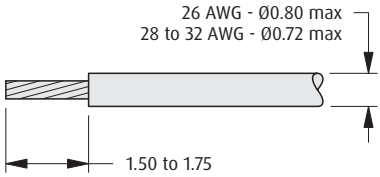
Gecko with Latches Connectors

Male Crimp Contacts

- ❖ Crimp barrel meets all crimp guidelines and standards.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.
- ❖ Instruction video online at www.harwin.com/harwintv.
- ❖ Dummy Contact can be used for additional polarisation of keying of multiple connectors. Also called Blanking Plug.



GECKO WITH LATCHES

CONTACTS	DUMMY CONTACT										
<p>26 AWG</p>  <p>28 - 32 AWG</p> 	 <p>WIRE STRIPPING DETAILS</p> 										
TOOLS											
<p>Recommended Crimp Tool - Z125-900</p> <p>Positioner - Z125-901</p> <p>Contact Insertion/Removal Tool - Z125-902</p>											
<p>❖ Male crimp housing shown on previous page.</p> <p>❖ Pre-cable contacts shown on following page.</p> <p>❖ Instruction sheets available at www.harwin.com/instructions.</p>											
HOW TO ORDER											
<p style="text-align: center;">G125 - XXX 00 05</p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;"> <p>SERIES CODE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #f2f2f2;">TYPE</th> <th></th> </tr> </thead> <tbody> <tr> <td style="background-color: #f2f2f2;">101</td> <td>Male 26 AWG crimp contact</td> </tr> <tr> <td style="background-color: #f2f2f2;">102</td> <td>Male 28-32 AWG crimp contact</td> </tr> <tr> <td style="background-color: #f2f2f2;">020</td> <td>Dummy Contact (blanking plug)</td> </tr> </tbody> </table> </div> <div style="width: 30%; text-align: center;"> <p>Male crimp housing shown on previous page.</p> <p>Pre-cable contacts shown on following page.</p> <p>Instruction sheets available at www.harwin.com/instructions.</p> </div> <div style="width: 30%;"> <p>FINISH</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="background-color: #f2f2f2;">05</td> <td>Gold</td> </tr> </tbody> </table> </div> </div>		TYPE		101	Male 26 AWG crimp contact	102	Male 28-32 AWG crimp contact	020	Dummy Contact (blanking plug)	05	Gold
TYPE											
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05	Gold										

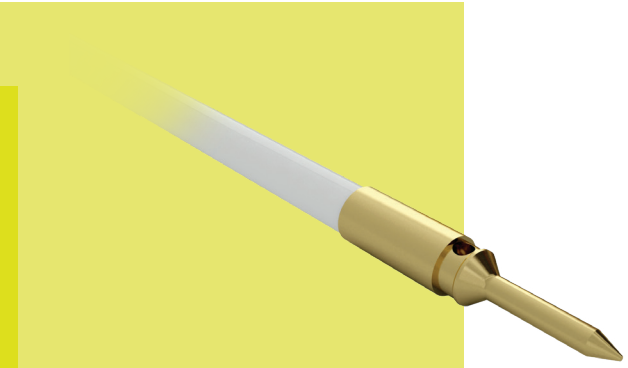
All dimensions in mm.

Patent Published

Gecko with Latches Connectors

Male Crimp Contacts – Pre-Crimped Wires

- ❖ Ready for assembling to housing.
- ❖ Crimp barrel meets all crimp guidelines and standards.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.
- ❖ For non-standard cable lengths, please visit harwin.com/cable-assemblies and fill in your requirements.



MALE SINGLE ENDED	MALE – MALE
MALE – FEMALE	TOOLS
	<p>Contact Insertion/Removal Tool – Z125-902</p> <ul style="list-style-type: none"> ❖ Male crimp housing and loose contacts shown on previous pages. ❖ Full Cable assemblies shown on following page. ❖ Instruction sheets available at www.harwin.com/instructions.

HOW TO ORDER

G125 – M WX XXXX X 94

SERIES CODE

GENDER – FIRST END

M Male

CABLE SIZE

W1	26 AWG
W2	28 AWG
W3	30 AWG
W4	32 AWG

CABLE COLOUR

94 White

TERMINATION – SECOND END

L	Loose cut end
F	Female
M	Male

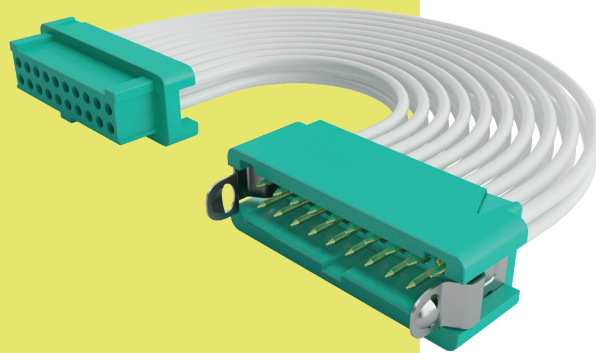
CABLE LENGTH

0150	150mm
0300	300mm (double-ended)
0450	450mm (single-ended)

Gecko with Latches Connectors

Male Cable Assemblies

- ❖ No. 1 position identified on moulding.
- ❖ 2A current capacity, resists high vibration and shock.
- ❖ Withstands extremes of temperature: -65°C to +150°C.
- ❖ Back potted for added strain relief.
- ❖ 4-finger Beryllium Copper contact on the female connector.
- ❖ For non-standard cable lengths, please visit harwin.com/cable-assemblies and fill in your requirements.



GECKO WITH LATCHES

PART NUMBERING SYSTEM

G125 - M C X XX 05 LX - XXXX X

SERIES CODE

GENDER - FIRST END

M Male

CABLE SIZE

1	26 AWG
2	28 AWG
3	30 AWG
4	32 AWG

TOTAL NO. OF CONTACTS

06, 10, 12, 16, 20, 26, 34, 50

TERMINATION - SECOND END

L	Loose cut end
F	Female connector
M	Male connector

CABLE LENGTH

0150	150mm
0300	300mm (double-ended)
0450	450mm (single-ended)

LATCHES

L0	No Latches
L4	Latches (male connectors only)

FINISH

05 Gold

Male Cable Assemblies

- ❖ See previous page for cable length options.
- ❖ Cable assemblies are constructed with Contact 1 attached to Contact 1, Contact 2 to Contact 2, etc.

<div>MALE SINGLE ENDED</div> <div> </div> <div>ORDER CODE</div> <div>G125-MCXXX05LX-XXXXL</div>	
<div>MALE – FEMALE</div> <div> </div> <div>ORDER CODE</div> <div>G125-MCXXX05LX-XXXXF</div>	<div>MALE – MALE</div> <div> </div> <div>ORDER CODE</div> <div>G125-MCXXX05LX-XXXXM</div>

All dimensions in mm.

Patent Published

Gecko Connectors Tooling

- ❖ Instruction sheets can be accessed at www.harwin.com/instructions.
- ❖ A Gecko Crimping Instruction video is available at www.harwin.com/harwintv.

<div> <div>HAND CRIMP TOOL</div> <div> <ul style="list-style-type: none"> ❖ Precision tool with ratchet mechanism and 8-indent form. ❖ Must be used with positioner. ❖ Instruction sheet available. </div> <div>  </div> <div> <div>ORDER CODE</div> <div>Z125-900</div> </div> </div>	<div> <div>POSITIONER</div> <div> <ul style="list-style-type: none"> ❖ Must be used with hand crimp tool. </div> <div>  </div> <div> <div>ORDER CODE</div> <div>Z125-901</div> </div> </div>
<div> <div>INSERTION/REMOVAL TOOL</div> <div> <ul style="list-style-type: none"> ❖ For inserting and removing crimped contacts into the rear of mouldings. ❖ Instruction sheet available. </div> <div>  </div> <div> <div>ORDER CODE</div> <div>Z125-902</div> </div> </div>	<div> <div>DE-LATCH TOOL</div> <div> <ul style="list-style-type: none"> ❖ For assisting with unmating latched connectors. </div> <div>  </div> <div> <div>ORDER CODE</div> <div>Z125-926xx00</div> </div> </div>

Replace xx with No. of Contacts: 06, 10, 12, 16, 20, 26, 34 or 50

Gecko Connectors Tooling

❖ Instruction sheets can be accessed at www.harwin.com/instructions.

GECKO

HEX DRIVE BIT	BALL HEX DRIVER
<ul style="list-style-type: none"> ❖ 1.5mm A/F Hex end for Gecko Screw-Lok Hex Socket fixings. ❖ For use with torque tooling or similar equipment.  <div>ORDER CODE Z9950-00</div>	<ul style="list-style-type: none"> ❖ 1.5mm A/F Hex end for Gecko Screw-Lok Hex Socket fixings. ❖ Ball-shaped end can be used at a wide range of angles.  <div>ORDER CODE Z9952-00</div>
SCREWDRIVER	
<ul style="list-style-type: none"> ❖ For use with Gecko Screw-Lok board mount nuts. ❖ Board mount nuts to be tightened to a torque of $21 \pm 2\text{cmN}$.  <div>ORDER CODE Z80-298</div>	

Notes