

Gecko

Contents

Introduction

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

Screw-Lok 1.25mm Pitch High-Reliability Connectors

- Specifications

- Mating Profiles

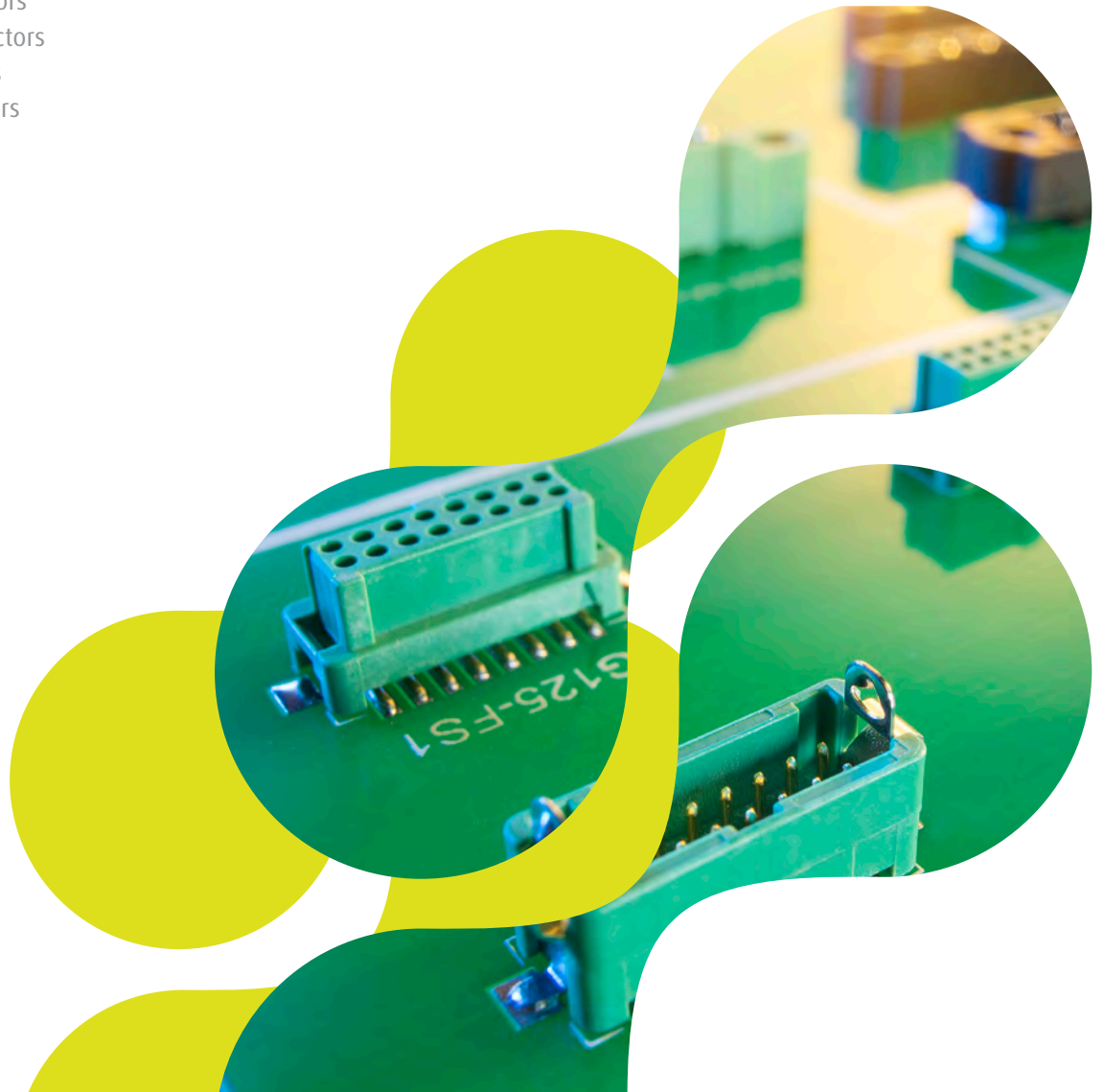
- Female PCB Connectors

- Female Cable Connectors

- Male PCB Connectors

- Male Cable Connectors

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

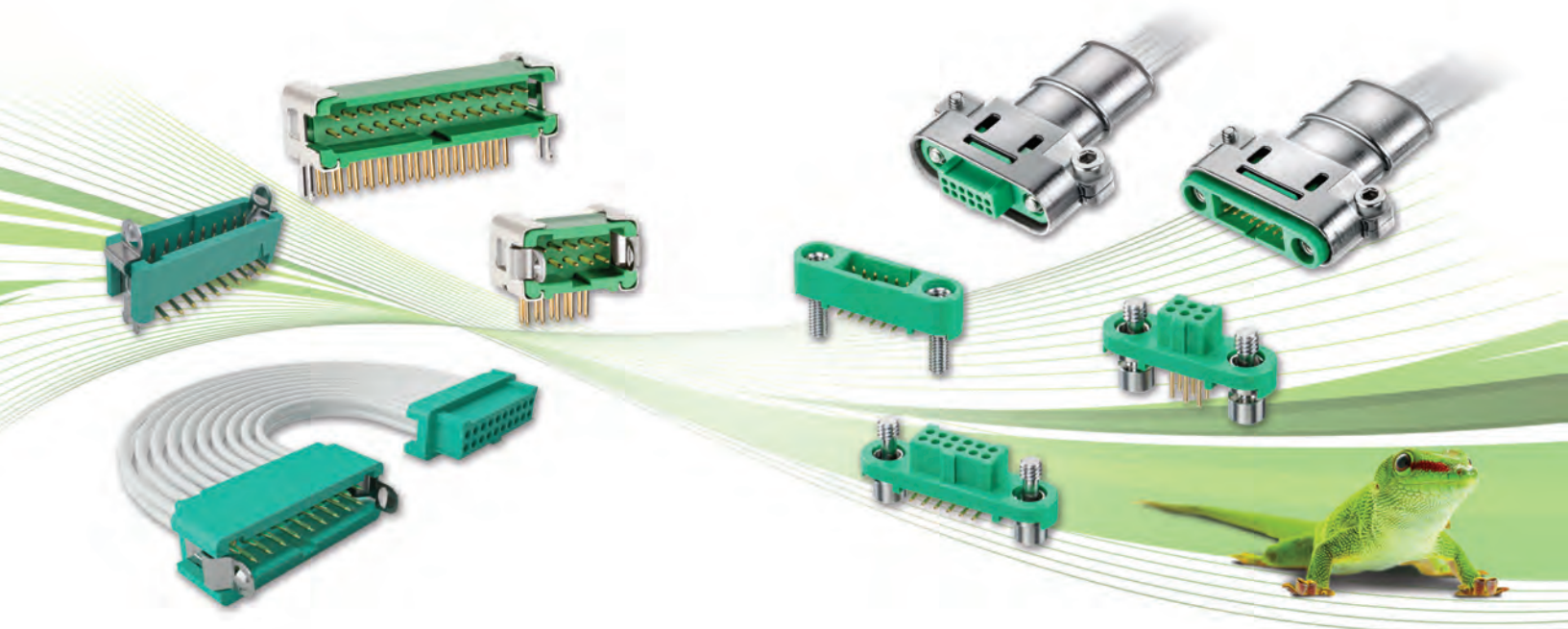
*Granted US9017089, Pending GB2501063, Pending EP2642604

Gecko 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

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



Patent Published

Gecko Connectors Product Features

GECKO

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.



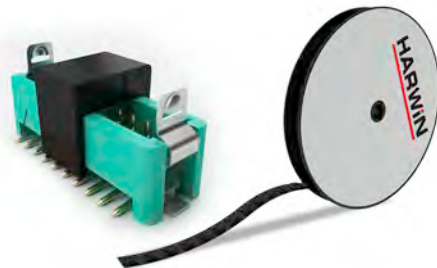
No. 1 Position identified, Potting Wall

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 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.



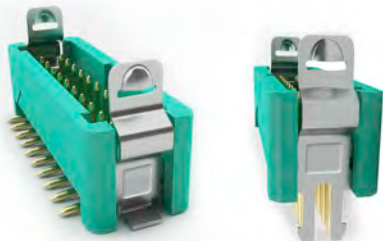
Gecko Screw-Lok - Robust Metal Backshells

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 - 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.



Gecko Screw-Lok - Maximum strain relief

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



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 |
| 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

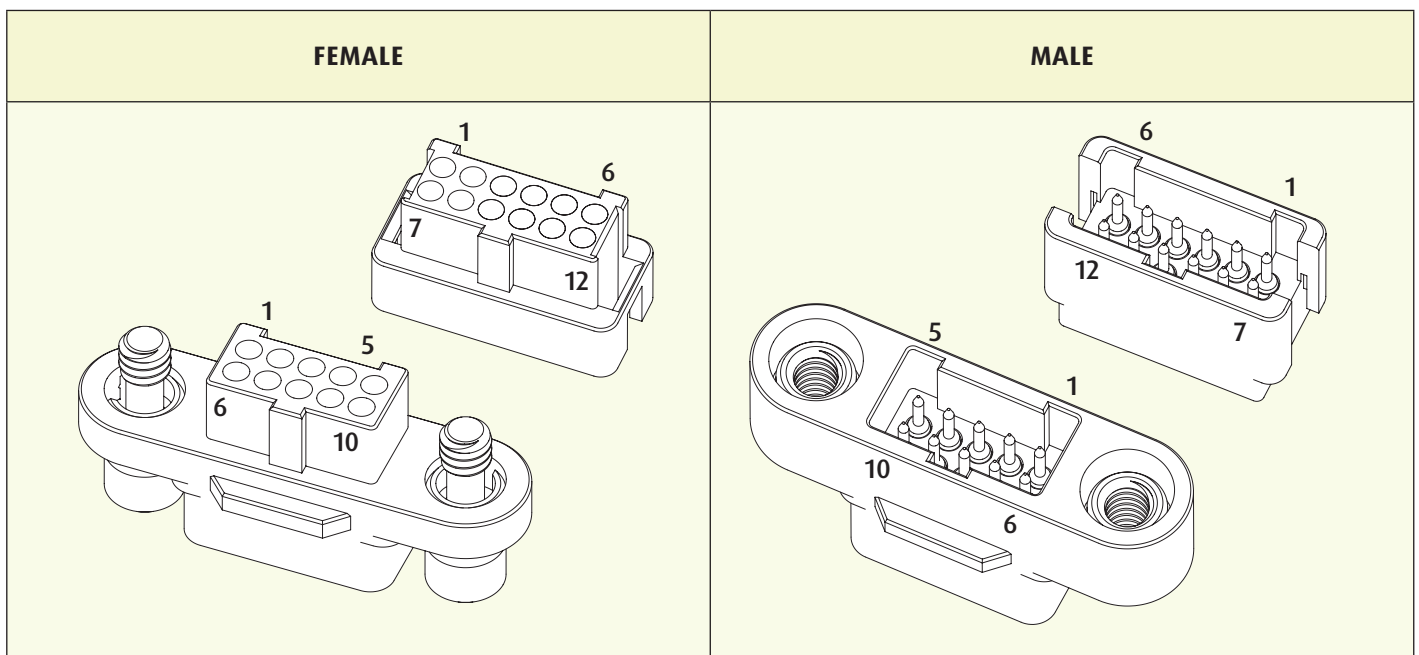
| | |
|---|-----------------|
| Contact durability: | 1000 operations |
| Mating forces (per contact pair) | |
| Insertion force: | 2.8N max |
| Withdrawal force: | 0.2N min |
| Contact retention in moulding: | 6N min |

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 2 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.

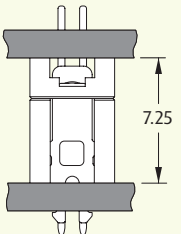
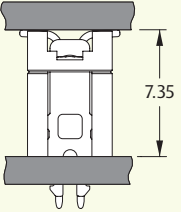
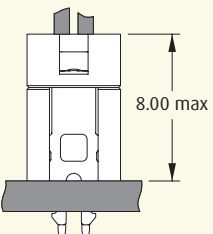
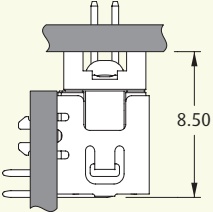
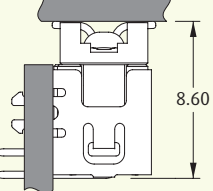
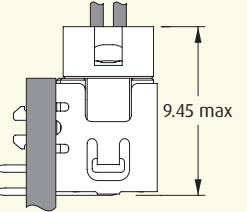
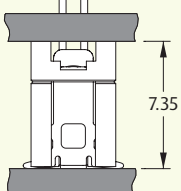
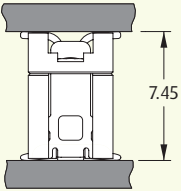
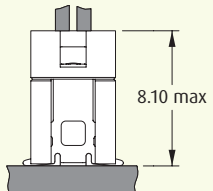
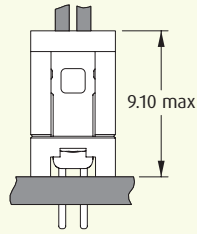
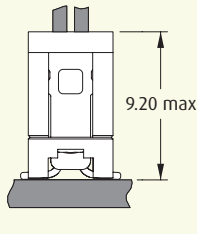
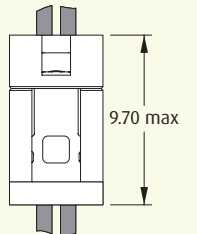
Pin Numbering



Patent Published

Gecko Mating Profiles

GECKO

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

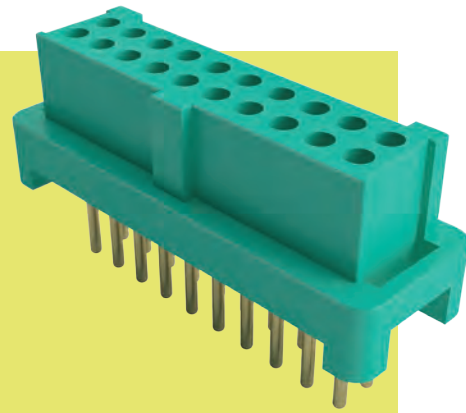
All dimensions in mm.

Patent Published

Gecko 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

| 3mm PC TAIL | 4.5mm PC TAIL | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|-------------|--|---|---------|---|-------------------------------------|-------------|---------|---------------|--|-----------|--|---|---------------|---|-------|--------|--|----|------|-----------------------|--|--------------------------------|--|
| <p>Recommended PC Board Pattern</p> | <p>Recommended PC Board Pattern</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2" style="background-color: #e6f2ff;">CALCULATION</th> </tr> </thead> <tbody> <tr> <td style="background-color: #e6f2ff;">A</td> <td>B + 3.8</td> </tr> <tr> <td style="background-color: #e6f2ff;">B</td> <td>0.625 x (Total No. of contacts - 2)</td> </tr> <tr> <td style="background-color: #e6f2ff;">C</td> <td>B + 1.8</td> </tr> </tbody> </table> | | CALCULATION | | A | B + 3.8 | B | 0.625 x (Total No. of contacts - 2) | C | B + 1.8 | | | | | | | | | | | | | | | | |
| CALCULATION | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | B + 3.8 | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 0.625 x (Total No. of contacts - 2) | | | | | | | | | | | | | | | | | | | | | | | | |
| C | B + 1.8 | | | | | | | | | | | | | | | | | | | | | | | | |
| <h3>HOW TO ORDER</h3> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>G125 - F VX XX 05 L0 X</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2" style="background-color: #e6f2ff;">SERIES CODE</th> </tr> </thead> <tbody> <tr> <td style="width: 50px;"></td> <td></td> </tr> </tbody> </table> <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2" style="background-color: #e6f2ff;">TYPE</th> </tr> </thead> <tbody> <tr> <td style="width: 50px;">V1</td> <td>3mm PC Tail</td> </tr> <tr> <td>V2</td> <td>4.5mm PC Tail</td> </tr> </tbody> </table> | SERIES CODE | | | | TYPE | | V1 | 3mm PC Tail | V2 | 4.5mm PC Tail | <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2" style="background-color: #e6f2ff;">PACKAGING</th> </tr> </thead> <tbody> <tr> <td style="width: 50px;">R</td> <td>Tape & Reeled</td> </tr> <tr> <td>P</td> <td>Loose</td> </tr> </tbody> </table> <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2" style="background-color: #e6f2ff;">FINISH</th> </tr> </thead> <tbody> <tr> <td style="width: 50px;">05</td> <td>Gold</td> </tr> </tbody> </table> <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2" style="background-color: #e6f2ff;">TOTAL NO. OF CONTACTS</th> </tr> </thead> <tbody> <tr> <td colspan="2">06, 10, 12, 16, 20, 26, 34, 50</td> </tr> </tbody> </table> | PACKAGING | | R | Tape & Reeled | P | Loose | FINISH | | 05 | Gold | TOTAL NO. OF CONTACTS | | 06, 10, 12, 16, 20, 26, 34, 50 | |
| SERIES CODE | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| TYPE | | | | | | | | | | | | | | | | | | | | | | | | | |
| V1 | 3mm PC Tail | | | | | | | | | | | | | | | | | | | | | | | | |
| V2 | 4.5mm 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.

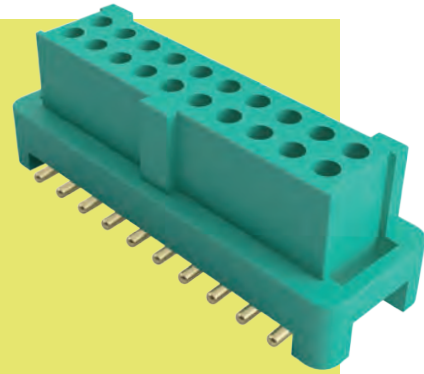
Patent Published

Gecko Connectors

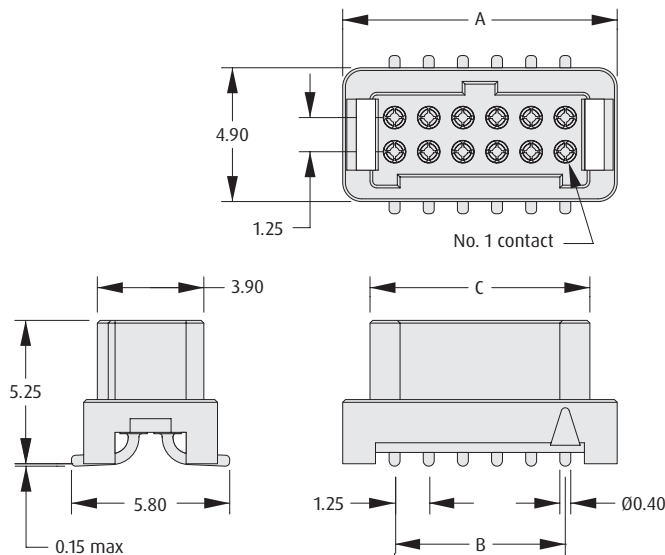
GECKO

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.

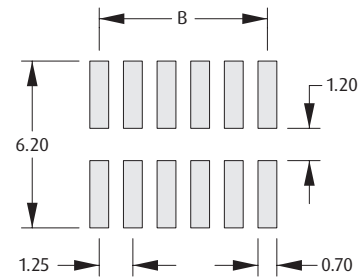


SURFACE MOUNT



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

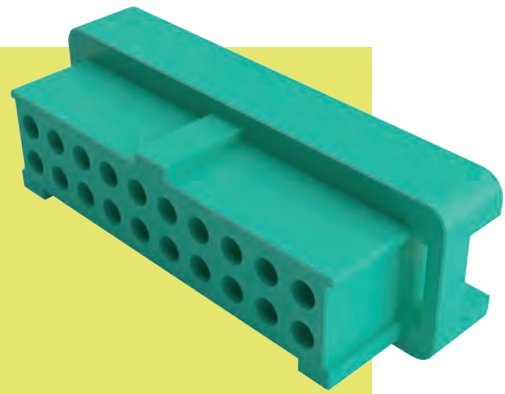
All dimensions in mm.

Patent Published

Gecko 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

| 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 | |
| HOW TO ORDER | | | |
| SERIES CODE | | G125 - 204 XX 96 L0 | |
| TYPE 204 Female Housing | | LATCHES L0 No Latches | |
| | | FINISH 96 Housing | |
| | | TOTAL NO. OF CONTACTS 06, 10, 12, 16, 20, 26, 34, 50 | |

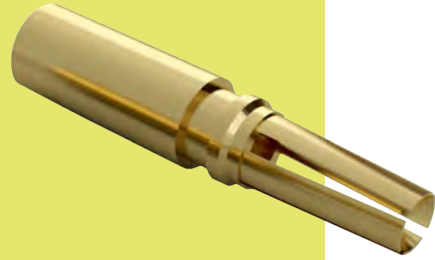
All dimensions in mm.

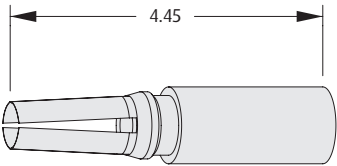
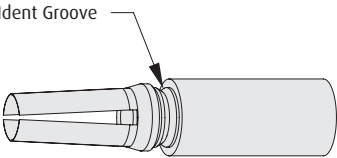
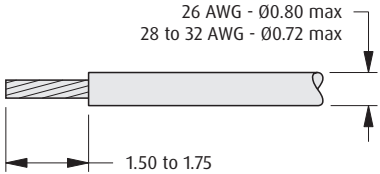
Patent Published

Gecko Connectors

Female Crimp Contacts

- ❖ 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.



| CONTACTS | WIRE STRIPPING DETAILS | | | | | | | | | | |
|---|---|------|--|-----|-----------------------------|-----|--------------------------------|--------|--|----|------|
| <p>26 AWG</p>  <p>28 - 32 AWG</p>  |  | | | | | | | | | | |
| TOOLS | | | | | | | | | | | |
| <p>Recommended Crimp Tool - Z125-900 Positioner - Z125-901 Contact Insertion/Removal Tool - Z125-902</p> | <ul style="list-style-type: none"> ❖ Female crimp housing shown on previous page. ❖ Pre-cabled contacts shown on following page. ❖ Instruction sheets available at www.harwin.com/instructions. | | | | | | | | | | |
| HOW TO ORDER | | | | | | | | | | | |
| <p style="text-align: center;">G125 - 00X 00 05</p> <div style="display: flex; justify-content: space-between;"> <div data-bbox="146 1625 318 1667"> <p>SERIES CODE</p> </div> <div data-bbox="146 1703 581 1818"> <table border="1"> <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> </tbody> </table> </div> <div data-bbox="1317 1682 1471 1766"> <table border="1"> <thead> <tr> <th colspan="2">FINISH</th> </tr> </thead> <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 | FINISH | | 05 | Gold |
| TYPE | | | | | | | | | | | |
| 001 | Female 26 AWG crimp contact | | | | | | | | | | |
| 002 | Female 28-32 AWG crimp contact | | | | | | | | | | |
| FINISH | | | | | | | | | | | |
| 05 | Gold | | | | | | | | | | |

All dimensions in mm.

Patent Published

Gecko 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 contact technical@harwin.com with your requirements.



GECKO

| FEMALE SINGLE ENDED | FEMALE – FEMALE |
|---------------------|-----------------|
| | |

TOOLS

Contact Insertion/Removal Tool – Z125-902

- ❖ 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

G125 – F WX XXXX X 94

| | | | |
|---------------------------|--|---------------------------------|--|
| SERIES CODE | G125 | CABLE COLOUR | 94 White |
| GENDER - FIRST END | F Female | TERMINATION - SECOND END | L Loose cut end F Female |
| CABLE SIZE | W1 26 AWG W2 28 AWG W3 30 AWG W4 32 AWG | CABLE LENGTH | 0150 150mm 0300 300mm (double-ended) 0450 450mm (single-ended) |

All dimensions in mm.

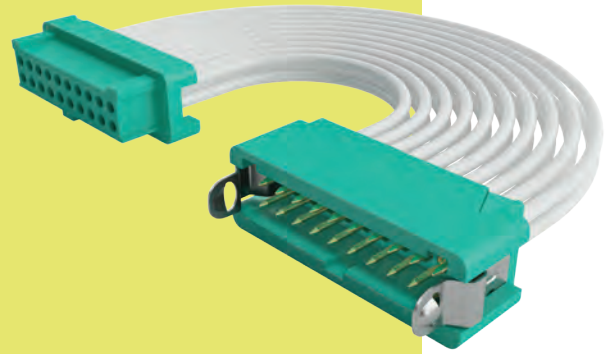
Patent Published

Gecko Connectors

GECKO

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 contact technical@harwin.com with 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 |
|-----------|------|

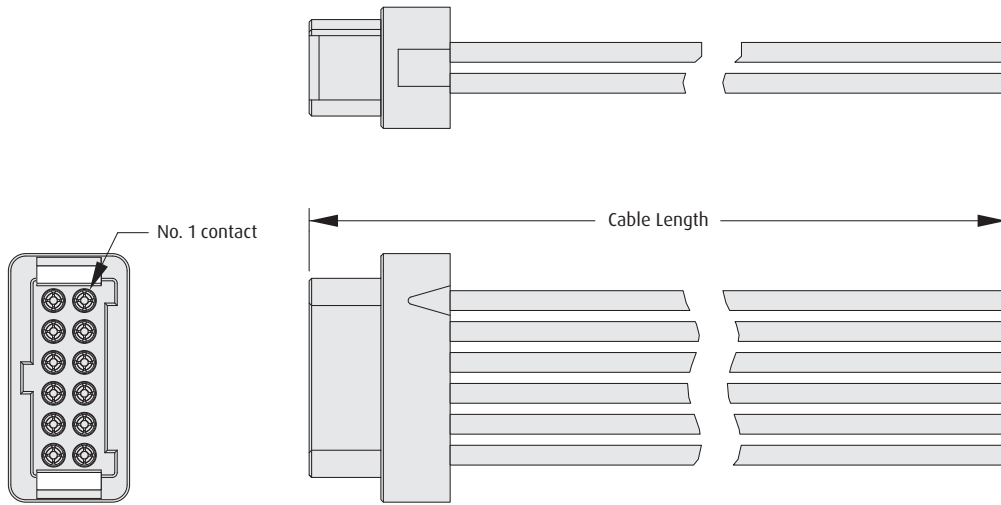
All dimensions in mm.

Patent Published

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.

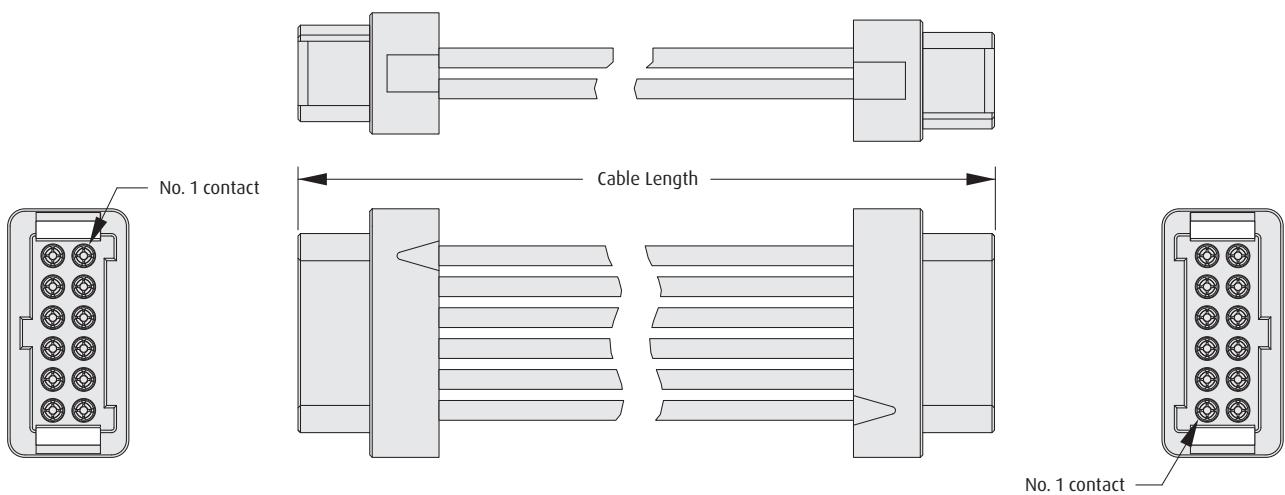
FEMALE SINGLE ENDED



ORDER CODE

G125-FCXXX05L0-XXXXL

FEMALE - FEMALE



ORDER CODE

G125-FCXXX05L0-XXXXF

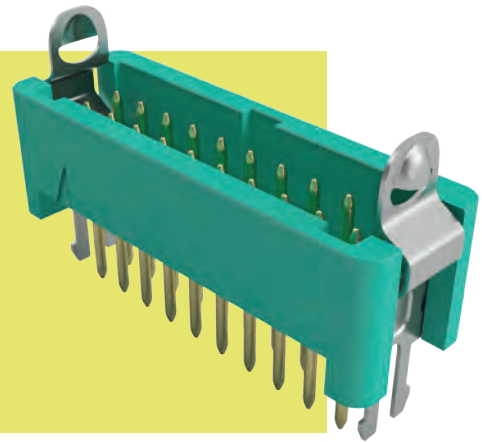
All dimensions in mm.

Patent Published

Gecko Connectors

Male Vertical PC Tail

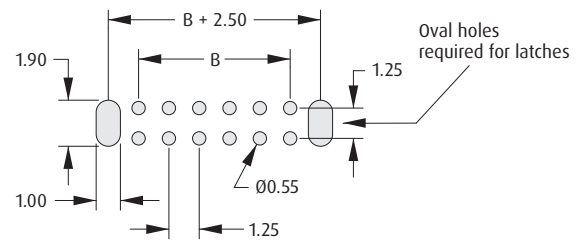
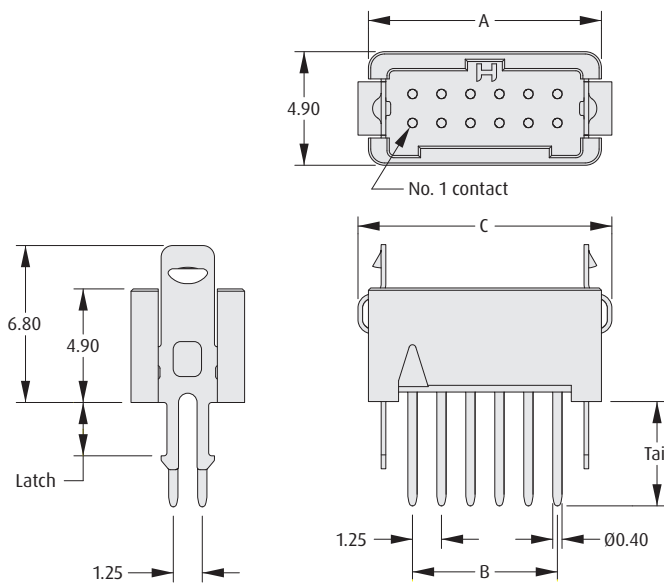
- Secure fixing to the PCB via retention bars for through hole.
- Easy-to-release latches require no tooling.
- 2A current capacity, resists high vibration and shock.
- Withstands extremes of temperature: -65°C to +150°C.



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 |
| L2 | Latch for 2.4mm PCB |

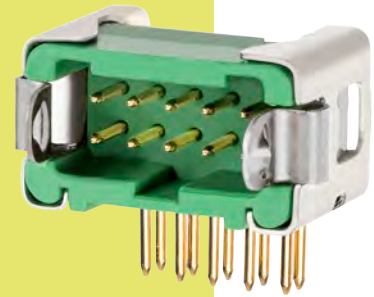
FINISH

05 Gold

Gecko Connectors

Male Horizontal PC Tail - Latched

- Secure fixing to the PCB via retention bars 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

| PC TAIL LATCH | SURFACE MOUNT LATCH | | | | | | | | | | | | | | |
|---|-------------------------------------|-------------|--------------------------------|-----------------|---|---------------|---|----------|---------------|----|-----------------------|----|-------------------------|----|---------------------|
| <p>Recommended PC Board Pattern</p> | <p>Recommended PC Board Pattern</p> | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">CALCULATION</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>B + 4.3</td> </tr> <tr> <td>B</td> <td>0.625 x (Total No. of contacts - 2)</td> </tr> <tr> <td>C</td> <td>B + 5.5</td> </tr> </tbody> </table> | | CALCULATION | | A | B + 4.3 | B | 0.625 x (Total No. of contacts - 2) | C | B + 5.5 | | | | | | |
| CALCULATION | | | | | | | | | | | | | | | |
| A | B + 4.3 | | | | | | | | | | | | | | |
| B | 0.625 x (Total No. of contacts - 2) | | | | | | | | | | | | | | |
| C | B + 5.5 | | | | | | | | | | | | | | |
| <h3>HOW TO ORDER</h3> | | | | | | | | | | | | | | | |
| <p>G125 - M HX XX 05 LX X</p> | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">SERIES CODE</th> </tr> </thead> <tbody> <tr> <td>G125</td> <td>Gecko Connector</td> </tr> </tbody> </table> | SERIES CODE | | G125 | Gecko Connector | <table border="1"> <thead> <tr> <th colspan="2">PACKAGING</th> </tr> </thead> <tbody> <tr> <td>R</td> <td>Tape & Reeled</td> </tr> <tr> <td>P</td> <td>Loose</td> </tr> </tbody> </table> | PACKAGING | | R | Tape & Reeled | P | Loose | | | | |
| SERIES CODE | | | | | | | | | | | | | | | |
| G125 | Gecko Connector | | | | | | | | | | | | | | |
| PACKAGING | | | | | | | | | | | | | | | |
| R | Tape & Reeled | | | | | | | | | | | | | | |
| P | Loose | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">TYPE</th> </tr> </thead> <tbody> <tr> <td>H1</td> <td>3mm PC Tail</td> </tr> <tr> <td>H2</td> <td>4.5mm PC Tail</td> </tr> </tbody> </table> | TYPE | | H1 | 3mm PC Tail | H2 | 4.5mm PC Tail | <table border="1"> <thead> <tr> <th colspan="2">LATCH</th> </tr> </thead> <tbody> <tr> <td>L1</td> <td>Barbs for 3mm PC Tail</td> </tr> <tr> <td>L2</td> <td>Barbs for 4.5mm PC Tail</td> </tr> <tr> <td>L3</td> <td>Surface Mount Latch</td> </tr> </tbody> </table> | LATCH | | L1 | Barbs for 3mm PC Tail | L2 | Barbs for 4.5mm PC Tail | L3 | Surface Mount Latch |
| TYPE | | | | | | | | | | | | | | | |
| H1 | 3mm PC Tail | | | | | | | | | | | | | | |
| H2 | 4.5mm PC Tail | | | | | | | | | | | | | | |
| LATCH | | | | | | | | | | | | | | | |
| L1 | Barbs for 3mm PC Tail | | | | | | | | | | | | | | |
| L2 | Barbs for 4.5mm PC Tail | | | | | | | | | | | | | | |
| L3 | Surface Mount Latch | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">TOTAL NO. OF CONTACTS</th> </tr> </thead> <tbody> <tr> <td>06, 10, 12, 16, 20, 26, 34, 50</td> <td></td> </tr> </tbody> </table> | TOTAL NO. OF CONTACTS | | 06, 10, 12, 16, 20, 26, 34, 50 | | <table border="1"> <thead> <tr> <th colspan="2">FINISH</th> </tr> </thead> <tbody> <tr> <td>05</td> <td>Gold</td> </tr> </tbody> </table> | FINISH | | 05 | Gold | | | | | | |
| TOTAL NO. OF CONTACTS | | | | | | | | | | | | | | | |
| 06, 10, 12, 16, 20, 26, 34, 50 | | | | | | | | | | | | | | | |
| FINISH | | | | | | | | | | | | | | | |
| 05 | Gold | | | | | | | | | | | | | | |

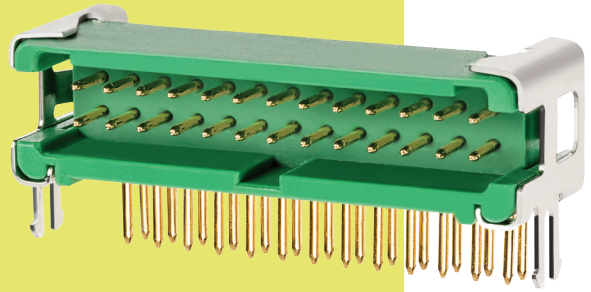
All dimensions in mm.

Patent Published

Gecko Connectors

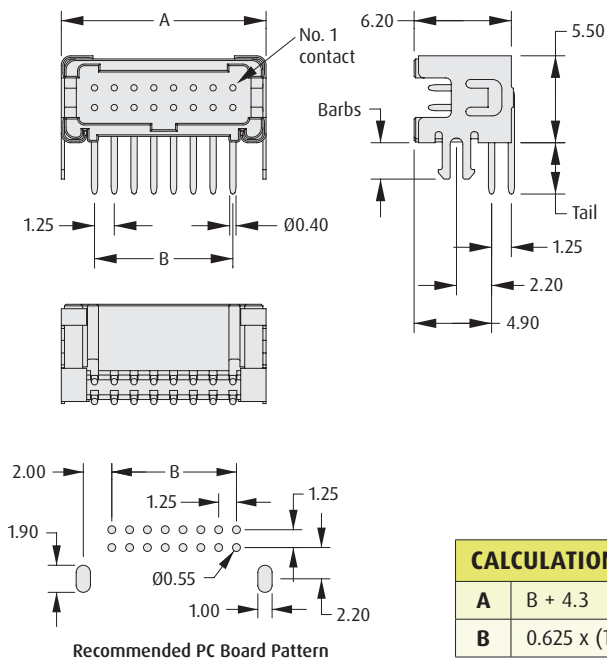
Male Horizontal PC Tail - Without Latch

- 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.

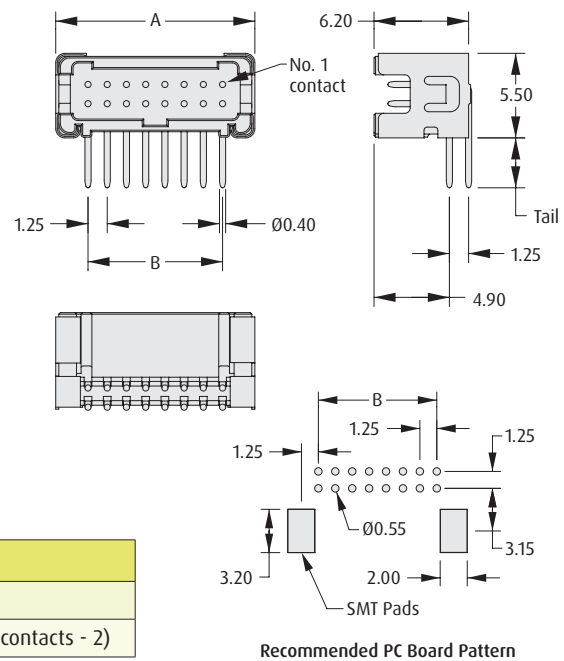


GECKO

PC TAIL FIXING



SURFACE MOUNT FIXING



HOW TO ORDER

G125 - M HX XX 05 LX X

SERIES CODE

TYPE

| | |
|-----------|---------------|
| H1 | 3mm PC Tail |
| H2 | 4.5mm PC Tail |

TOTAL NO. OF CONTACTS

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

PACKAGING

| | |
|----------|---------------|
| R | Tape & Reeled |
| P | Loose |

FIXING

| | |
|-----------|-------------------------|
| L5 | Barbs for 3mm PC Tail |
| L6 | Barbs for 4.5mm PC Tail |
| L7 | Surface Mount Fixing |

FINISH

| | |
|-----------|------|
| 05 | Gold |
|-----------|------|

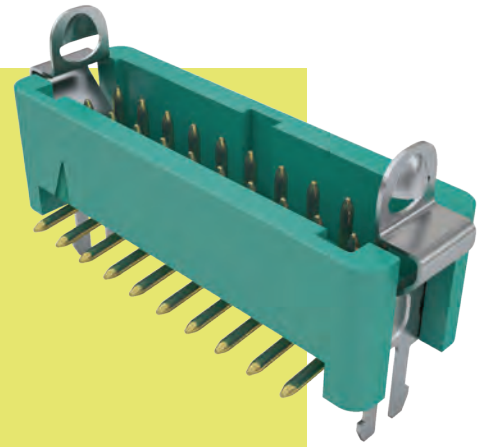
All dimensions in mm.

Patent Published

Gecko Connectors

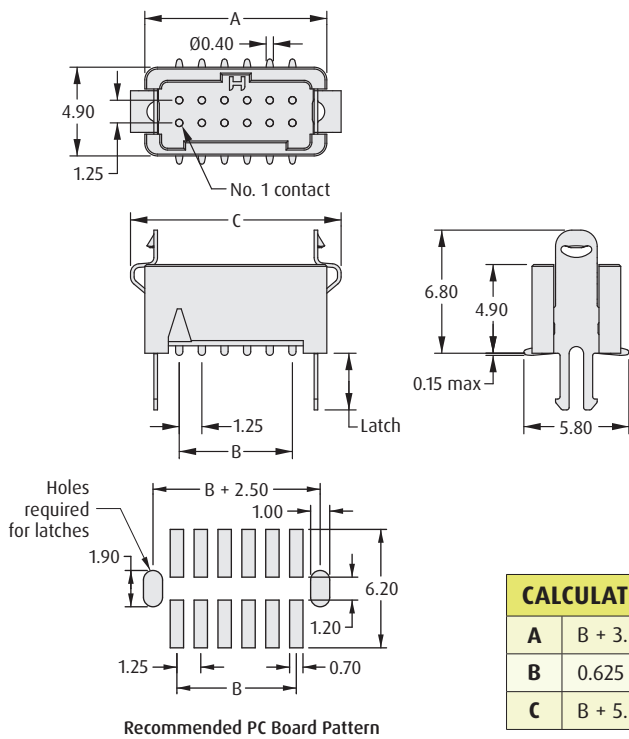
Male Vertical Surface Mount

- 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.

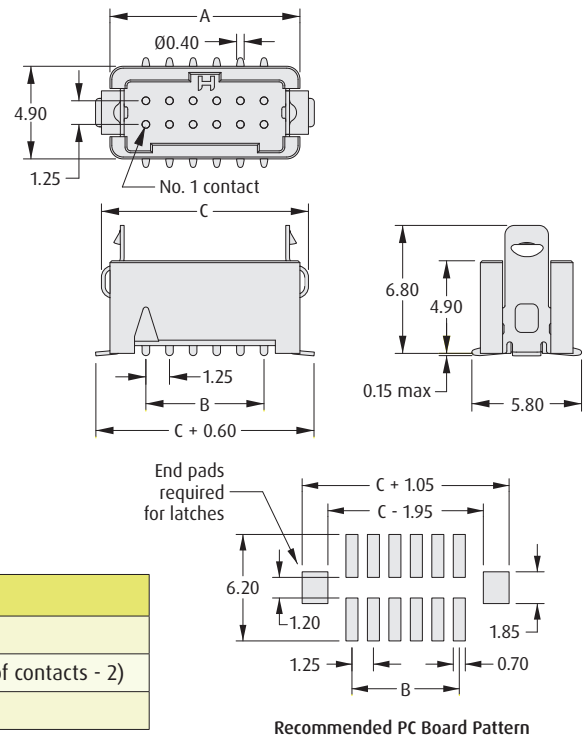


GECKO

PC TAIL LATCH



SURFACE MOUNT LATCH



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 |

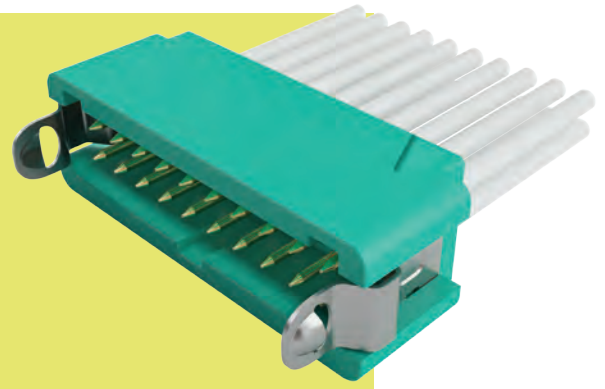
LATCH

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

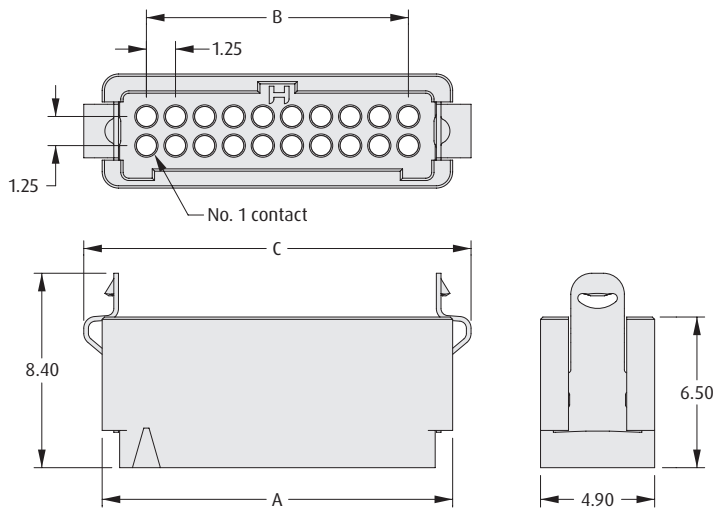
Gecko Connectors

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

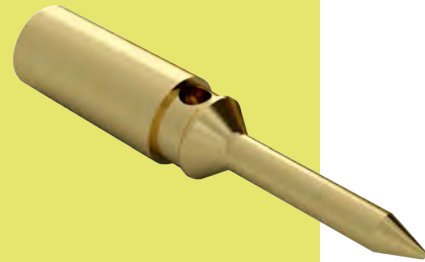
All dimensions in mm.

Patent Published

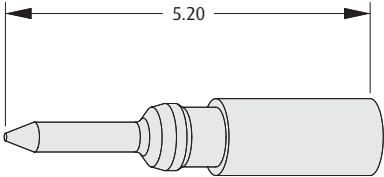
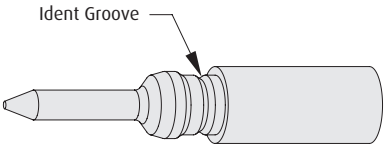
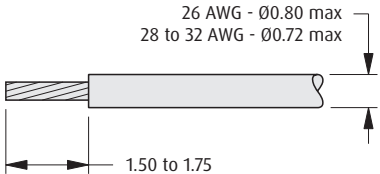
Gecko Connectors

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.



GECKO

| CONTACTS | WIRE STRIPPING DETAILS | | | | | | | | | | |
|--|--|------|--|-----|---------------------------|-----|------------------------------|--------|--|----|------|
| <p>26 AWG</p>  <p>28 - 32 AWG</p>  |  | | | | | | | | | | |
| TOOLS | | | | | | | | | | | |
| <p>Recommended Crimp Tool - Z125-900 Positioner - Z125-901 Contact Insertion/Removal Tool - Z125-902</p> | <ul style="list-style-type: none"> ❖ Male crimp housing shown on previous page. ❖ Pre-cable contacts shown on following page. ❖ Instruction sheets available at www.harwin.com/instructions. | | | | | | | | | | |
| HOW TO ORDER | | | | | | | | | | | |
| <p style="text-align: center;">G125 - 10X 00 05</p> <div style="display: flex; justify-content: space-between;"> <div data-bbox="147 1619 318 1665" style="border: 1px solid black; padding: 2px;"> <p>SERIES CODE</p> </div> <div data-bbox="147 1703 548 1822" style="border: 1px solid black; padding: 2px;"> <table border="1"> <thead> <tr> <th colspan="2">TYPE</th> </tr> </thead> <tbody> <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> </tbody> </table> </div> <div data-bbox="1320 1682 1474 1759" style="border: 1px solid black; padding: 2px;"> <table border="1"> <thead> <tr> <th colspan="2">FINISH</th> </tr> </thead> <tbody> <tr> <td>05</td> <td>Gold</td> </tr> </tbody> </table> </div> </div> | | TYPE | | 101 | Male 26 AWG crimp contact | 102 | Male 28-32 AWG crimp contact | FINISH | | 05 | Gold |
| TYPE | | | | | | | | | | | |
| 101 | Male 26 AWG crimp contact | | | | | | | | | | |
| 102 | Male 28-32 AWG crimp contact | | | | | | | | | | |
| FINISH | | | | | | | | | | | |
| 05 | Gold | | | | | | | | | | |

All dimensions in mm.

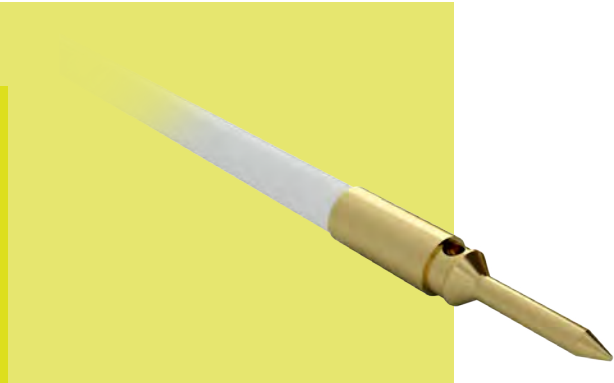
Patent Published

Gecko Connectors

GECKO

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 contact technical@harwin.com with 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

| CABLE COLOUR | |
|--------------|-------|
| 94 | White |

| GENDER - FIRST END | |
|--------------------|------|
| M | Male |

| TERMINATION - SECOND END | |
|--------------------------|---------------|
| L | Loose cut end |
| F | Female |
| M | Male |

| CABLE SIZE | |
|------------|--------|
| W1 | 26 AWG |
| W2 | 28 AWG |
| W3 | 30 AWG |
| W4 | 32 AWG |

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

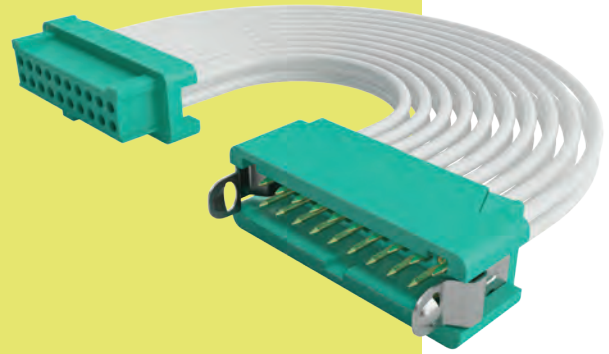
All dimensions in mm.

Patent Published

Gecko 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 contact technical@harwin.com with your requirements.



GECKO

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.

GECKO

MALE SINGLE ENDED

Cable Length

No. 1 contact

ORDER CODE
G125-MCXXX05LX-XXXXL

MALE - FEMALE

Cable Length

ORDER CODE
G125-MCXXX05LX-XXXXF

MALE - MALE

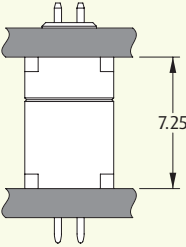
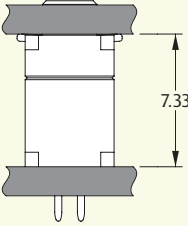
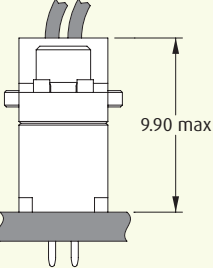
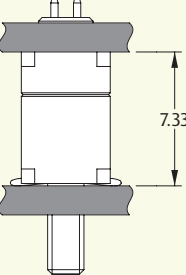
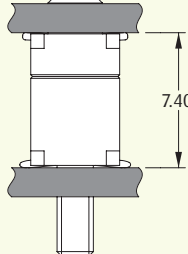
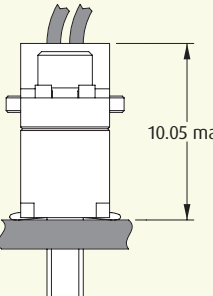
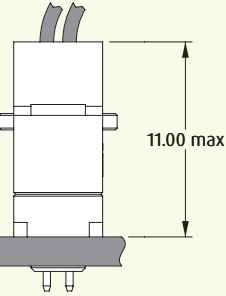
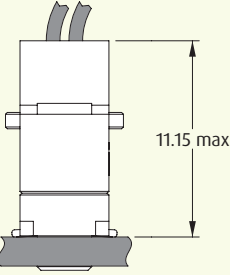
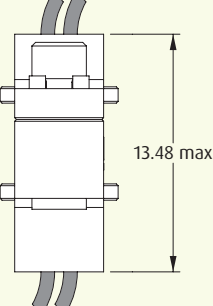
Cable Length

ORDER CODE
G125-MCXXX05LX-XXXXM

All dimensions in mm.

Patent Published

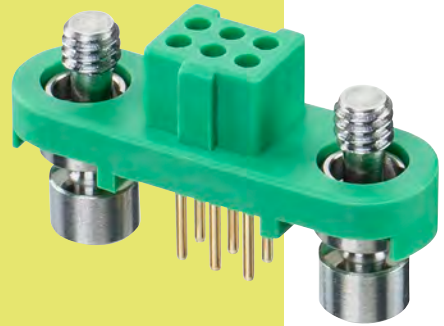
Gecko Screw-Lok Mating Profiles

| | | FEMALE | | |
|------|------------------|---|--|---|
| | | VERTICAL PC TAIL | VERTICAL SMT | CABLE |
| MALE | VERTICAL PC TAIL |  7.25 |  7.33 |  9.90 max |
| | VERTICAL SMT |  7.33 |  7.40 |  10.05 max |
| | CABLE |  11.00 max |  11.15 max |  13.48 max |

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.

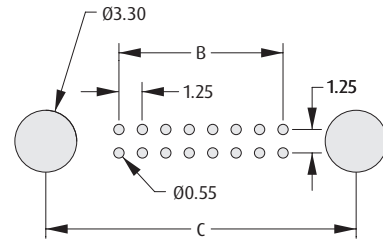
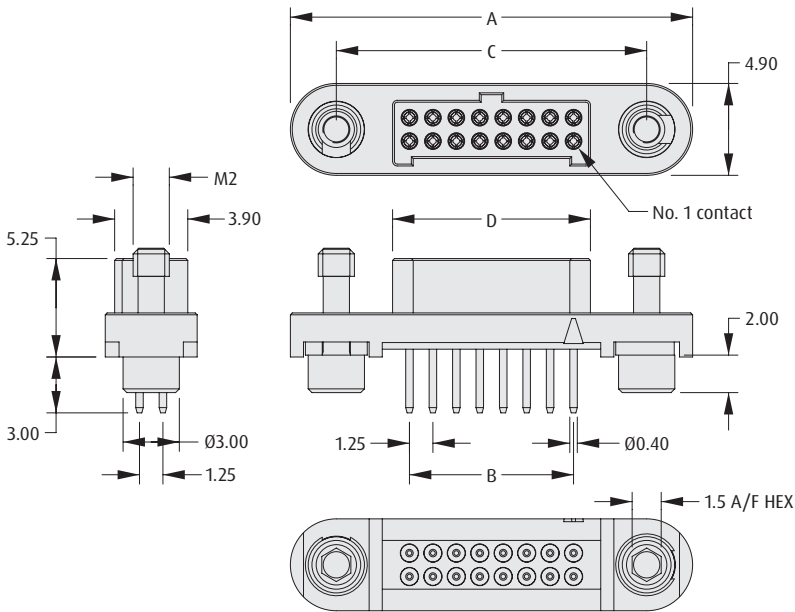


GECKO SCREW-LOK

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

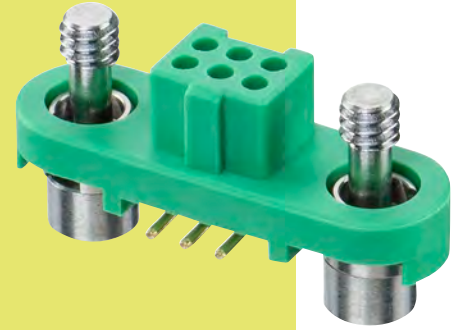
All dimensions in mm.

Patent Published

Gecko Screw-Lok Connectors

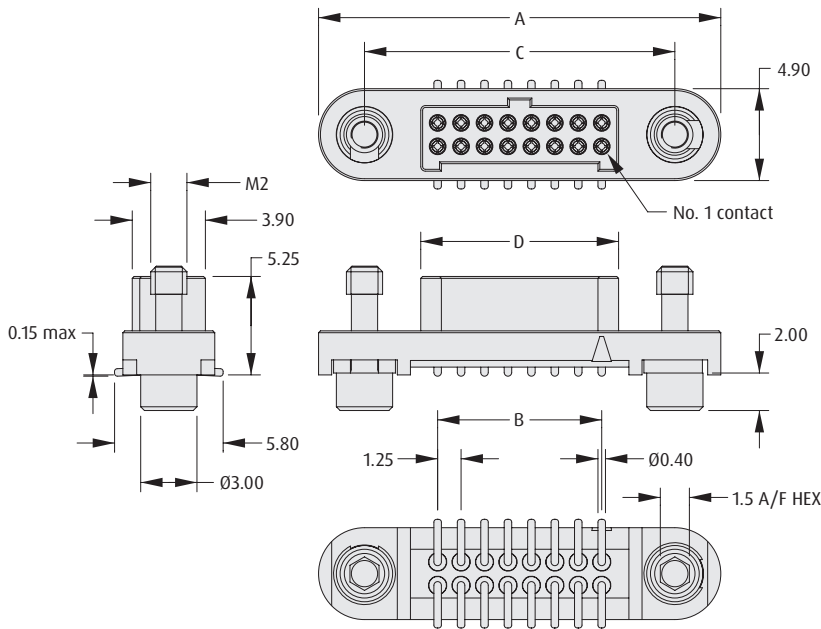
Female Surface Mount

- ❖ 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.



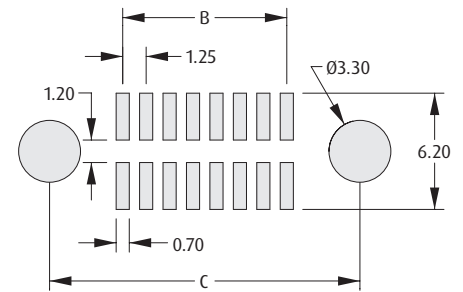
GECKO SCREW-LOK

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

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.



GECKO SCREW-LOK

| 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 | | | |
| <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"> Female contacts shown on following pages. Instruction sheets available at www.harwin.com/instructions. | |
| HOW TO ORDER | | | |
| G125 - 224 XX 96 XX | | | |
| SERIES CODE | | LATCHES | |
| TYPE | | F1 | Floating Hex Socket fixings |
| 224 | Female Housing | 00 | No fixings (use with Metal Hoods) |
| TOTAL NO. OF CONTACTS | | FINISH | |
| 06, 10, 12, 16 | | 96 | Housing |

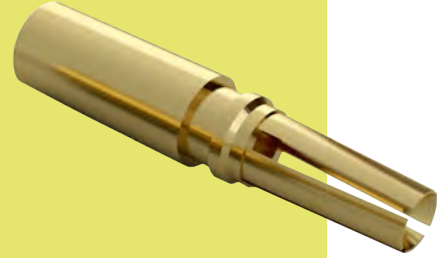
All dimensions in mm.

Patent Published

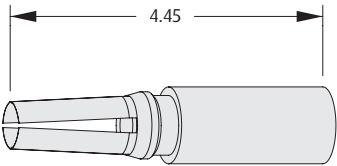
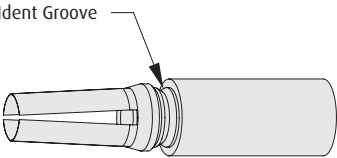
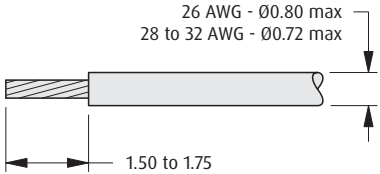
Gecko Screw-Lok Connectors

Female Crimp Contacts

- ❖ 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.



GECKO SCREW-LOK

| CONTACTS | WIRE STRIPPING DETAILS | | | | | | |
|---|---|-----------------------------|------------|--------------------------------|---|-----------|------|
| <p>26 AWG</p>  <p>28 - 32 AWG</p>  |  | | | | | | |
| <h3>TOOLS</h3> | | | | | | | |
| <p>Recommended Crimp Tool - Z125-900 Positioner - Z125-901 Contact Insertion/Removal Tool - Z125-902</p> | <ul style="list-style-type: none"> ❖ Female crimp housing shown on previous page. ❖ Pre-cabled contacts shown on following page. ❖ Instruction sheets available at www.harwin.com/instructions. | | | | | | |
| <h3>HOW TO ORDER</h3> | | | | | | | |
| <p>SERIES CODE</p> <p>TYPE</p> <table border="1" data-bbox="147 1703 581 1818"> <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> </table> | 001 | Female 26 AWG crimp contact | 002 | Female 28-32 AWG crimp contact | <p>G125 - 00X 00 05</p> <p>FINISH</p> <table border="1" data-bbox="1320 1682 1474 1766"> <tr> <td>05</td> <td>Gold</td> </tr> </table> | 05 | Gold |
| 001 | Female 26 AWG crimp contact | | | | | | |
| 002 | Female 28-32 AWG crimp contact | | | | | | |
| 05 | Gold | | | | | | |

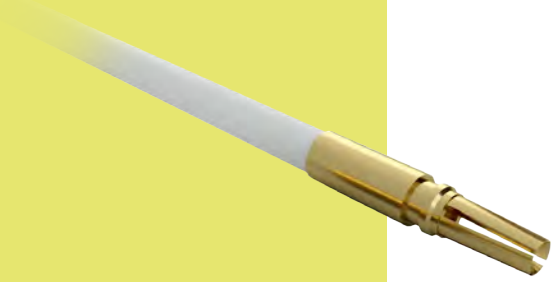
All dimensions in mm.

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 contact cables@harwin.com with your requirements.



GECKO SCREW-LOK

| FEMALE SINGLE ENDED | FEMALE – FEMALE |
|---------------------|-----------------|
| | |

TOOLS

Contact Insertion/Removal Tool – Z125-902

- ❖ Female crimp housing and loose contacts shown on previous pages.
- ❖ Instruction sheets available at www.harwin.com/instructions.

HOW TO ORDER

G125 – F WX XXXX X 94

| | | | |
|---------------------------|--|---------------------------------|--|
| SERIES CODE | G125 | CABLE COLOUR | 94 White |
| GENDER - FIRST END | F Female | TERMINATION - SECOND END | L Loose cut end F Female |
| CABLE SIZE | W1 26 AWG W2 28 AWG W3 30 AWG W4 32 AWG | CABLE LENGTH | 0150 150mm 0300 300mm (double-ended) 0450 450mm (single-ended) |

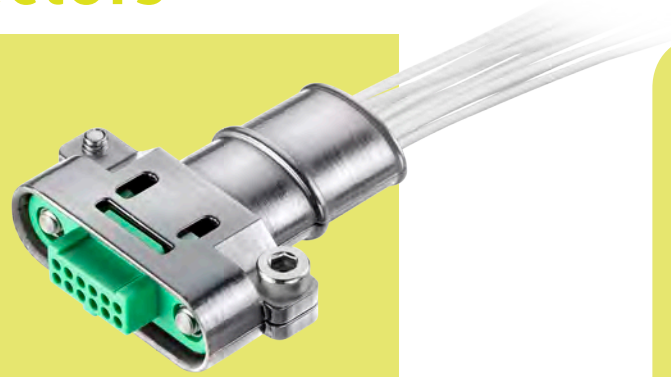
All dimensions in mm.

Patent Published

Gecko Screw-Lok Connectors

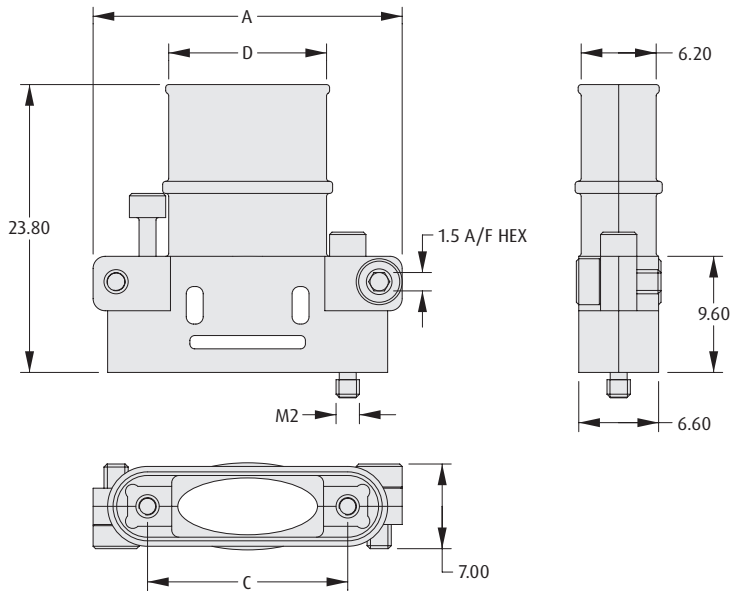
Female Metal Hood / Backshell

- ❖ 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 M80-224xx9600 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.



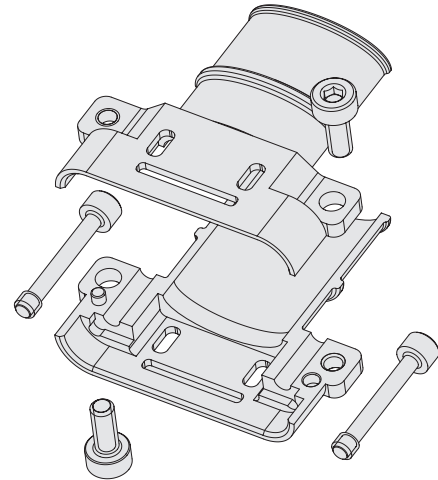
GECKO SCREW-LOK

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

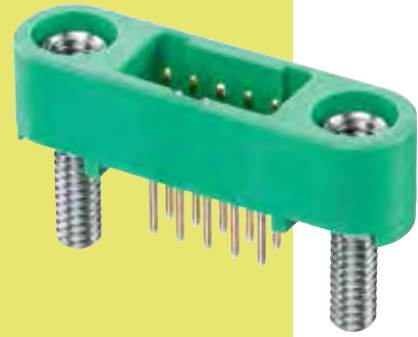
All dimensions in mm.

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.



GECKO SCREW-LOK

| PC TAIL | CALCULATION | | | | | | | | | | | | | | | | |
|---|---|---|--|-------------------|---|----------------|---|-----------|--|---|---------------|---|-------|--------|--|----|------|
| | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">A</td> <td>$B + 12.7$</td> </tr> <tr> <td>B</td> <td>$0.625 \times (\text{Total No. of contacts} - 2)$</td> </tr> <tr> <td>C</td> <td>$B + 7.8$</td> </tr> </table> | A | $B + 12.7$ | B | $0.625 \times (\text{Total No. of contacts} - 2)$ | C | $B + 7.8$ | | | | | | | | | | |
| | A | $B + 12.7$ | | | | | | | | | | | | | | | |
| | B | $0.625 \times (\text{Total No. of contacts} - 2)$ | | | | | | | | | | | | | | | |
| C | $B + 7.8$ | | | | | | | | | | | | | | | | |
| <p>Recommended PC Board Pattern</p> | | | | | | | | | | | | | | | | | |
| HOW TO ORDER | | | | | | | | | | | | | | | | | |
| G125 - M V1 XX 05 M2 X | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 100%;">SERIES CODE</th> </tr> <tr> <td style="text-align: center;">G125</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 100%;">TYPE</th> </tr> <tr> <td style="text-align: center;">V1 3mm PC Tail</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 100%;">TOTAL NO. OF CONTACTS</th> </tr> <tr> <td style="text-align: center;">06, 10, 12, 16</td> </tr> </table> | SERIES CODE | G125 | TYPE | V1 3mm PC Tail | TOTAL NO. OF CONTACTS | 06, 10, 12, 16 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">PACKAGING</th> </tr> <tr> <td style="width: 10%; text-align: center;">R</td> <td>Tape & Reeled</td> </tr> <tr> <td style="text-align: center;">P</td> <td>Loose</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">FINISH</th> </tr> <tr> <td style="width: 10%; text-align: center;">05</td> <td>Gold</td> </tr> </table> | PACKAGING | | R | Tape & Reeled | P | Loose | FINISH | | 05 | Gold |
| SERIES CODE | | | | | | | | | | | | | | | | | |
| G125 | | | | | | | | | | | | | | | | | |
| TYPE | | | | | | | | | | | | | | | | | |
| V1 3mm PC Tail | | | | | | | | | | | | | | | | | |
| TOTAL NO. OF CONTACTS | | | | | | | | | | | | | | | | | |
| 06, 10, 12, 16 | | | | | | | | | | | | | | | | | |
| PACKAGING | | | | | | | | | | | | | | | | | |
| R | Tape & Reeled | | | | | | | | | | | | | | | | |
| P | Loose | | | | | | | | | | | | | | | | |
| FINISH | | | | | | | | | | | | | | | | | |
| 05 | Gold | | | | | | | | | | | | | | | | |
| REQUIRED HARDWARE | | | | | | | | | | | | | | | | | |
| <p>Hexagonal Board Mount Nut</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">ORDER CODE</th> </tr> <tr> <td style="text-align: center;">G125-450000B</td> </tr> </table> | ORDER CODE | G125-450000B | <p style="text-align: right;">Order separately from connector</p> <p>Slotted Board Mount Nut</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">ORDER CODE</th> </tr> <tr> <td style="text-align: center;">G125-451000B</td> </tr> </table> | ORDER CODE | G125-451000B | | | | | | | | | | | | |
| ORDER CODE | | | | | | | | | | | | | | | | | |
| G125-450000B | | | | | | | | | | | | | | | | | |
| ORDER CODE | | | | | | | | | | | | | | | | | |
| G125-451000B | | | | | | | | | | | | | | | | | |

All dimensions in mm.

Patent Published

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.



GECKO SCREW-LOK

| SURFACE MOUNT | | CALCULATION | | | | | |
|---|---------------|---|--|----------|---------------|----------|-------|
| | | A | $B + 12.7$ | | | | |
| | | B | $0.625 \times (\text{Total No. of contacts} - 2)$ | | | | |
| | | C | $B + 7.8$ | | | | |
| | | <p>Recommended PC Board Pattern</p> | | | | | |
| HOW TO ORDER | | | | | | | |
| <p>SERIES CODE</p> <p>G125 - M S1 XX 05 M2 X</p> | | <p>PACKAGING</p> <table border="1"> <tr> <td>R</td> <td>Tape & Reeled</td> </tr> <tr> <td>P</td> <td>Loose</td> </tr> </table> | | R | Tape & Reeled | P | Loose |
| R | Tape & Reeled | | | | | | |
| P | Loose | | | | | | |
| <p>TYPE</p> <table border="1"> <tr> <td>S1</td> <td>Surface Mount</td> </tr> </table> | | S1 | Surface Mount | | | | |
| S1 | Surface Mount | | | | | | |
| <p>TOTAL NO. OF CONTACTS</p> <table border="1"> <tr> <td>06, 10, 12, 16</td> </tr> </table> | | 06, 10, 12, 16 | <p>FINISH</p> <table border="1"> <tr> <td>05</td> <td>Gold</td> </tr> </table> | | 05 | Gold | |
| 06, 10, 12, 16 | | | | | | | |
| 05 | Gold | | | | | | |
| 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 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.



GECKO SCREW-LOK

| MALE | | CALCULATION | |
|---|------------------|--|---|
| | | A | $B + 12.7$ |
| | | B | $0.625 \times (\text{Total No. of contacts} - 2)$ |
| | | C | $B + 7.8$ |
| 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 contacts shown on following pages. Instruction sheets available at www.harwin.com/instructions. | |
| HOW TO ORDER | | | |
| G125 - 324 XX 96 M1 | | | |
| SERIES CODE | G125 | FINISH | 96 Housing |
| TYPE | 324 Male Housing | TOTAL NO. OF CONTACTS | 06, 10, 12, 16 |
| | | | XX |
| | | | 96 |
| | | | M1 |

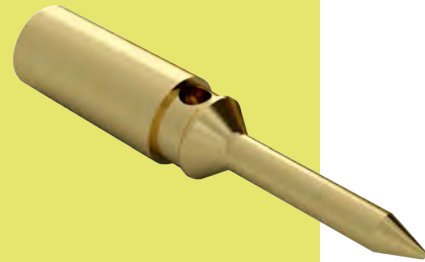
All dimensions in mm.

Patent Published

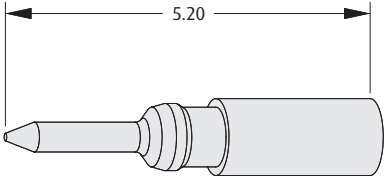
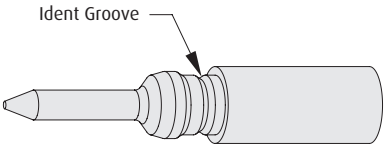
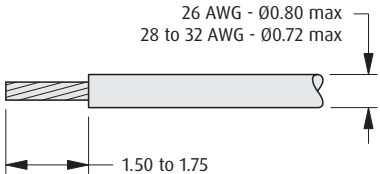
Gecko Screw-Lok Connectors

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.



GECKO SCREW-LOK

| CONTACTS | WIRE STRIPPING DETAILS | | | | | | | | |
|---|---|------|--|------------|---------------------------|------------|------------------------------|-----------|------|
| <p>26 AWG</p>  <p>28 - 32 AWG</p>  |  | | | | | | | | |
| 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 housing shown on previous page. ❖ Pre-cabled contacts shown on following page. ❖ Instruction sheets available at www.harwin.com/instructions. | | | | | | | | |
| HOW TO ORDER | | | | | | | | | |
| <p style="text-align: center;">G125 - 10X 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 style="text-align: center;">101</td> <td>Male 26 AWG crimp contact</td> </tr> <tr> <td style="text-align: center;">102</td> <td>Male 28-32 AWG crimp contact</td> </tr> </tbody> </table> </div> <div style="width: 30%; text-align: center;"> <p>FINISH</p> <table border="1" style="width: 100%;"> <tbody> <tr> <td style="text-align: center;">05</td> <td>Gold</td> </tr> </tbody> </table> </div> </div> | | TYPE | | 101 | Male 26 AWG crimp contact | 102 | Male 28-32 AWG crimp contact | 05 | Gold |
| TYPE | | | | | | | | | |
| 101 | Male 26 AWG crimp contact | | | | | | | | |
| 102 | Male 28-32 AWG crimp contact | | | | | | | | |
| 05 | Gold | | | | | | | | |

All dimensions in mm.

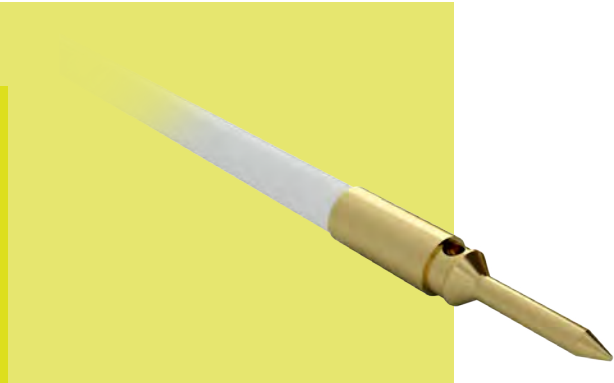
Patent Published

Gecko Screw-Lok Connectors

GECKO SCREW-LOK

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 contact cables@harwin.com with 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. ➤ Instruction sheets available at www.harwin.com/instructions. |

HOW TO ORDER

G125 – M WX XXXX X 94

| | | | | |
|---|-------------------------------------|---|--|---------------------------------|
| SERIES CODE G125 | GENDER – FIRST END M Male | CABLE SIZE W1 26 AWG W2 28 AWG W3 30 AWG W4 32 AWG | TERMINATION – SECOND END L Loose cut end F Female M Male | CABLE COLOUR 94 White |
| CABLE LENGTH 0150 150mm 0300 300mm (double-ended) 0450 450mm (single-ended) | | | | |

All dimensions in mm.

Patent Published

Gecko Screw-Lok Connectors

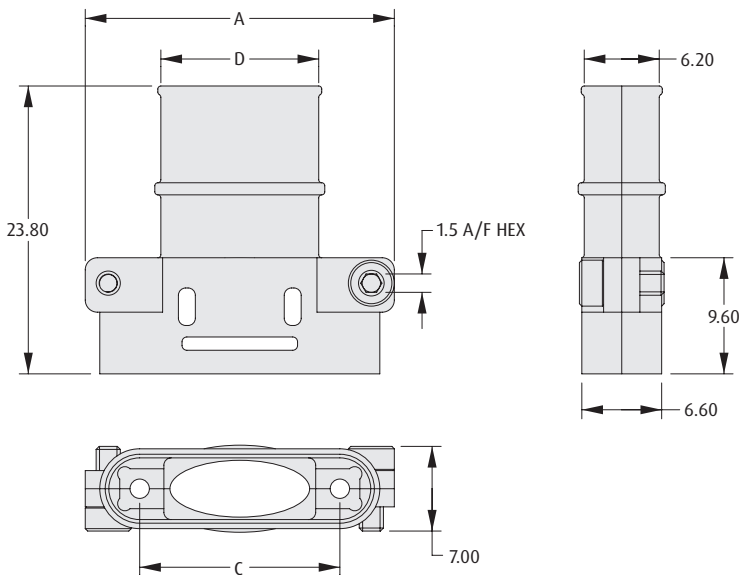
Male Metal Hood / Backshell

- ❖ 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 M80-324xx9600 male crimp housings.
- ❖ Tie-band can be used to attached external braid, to construct a shielded cable assembly.



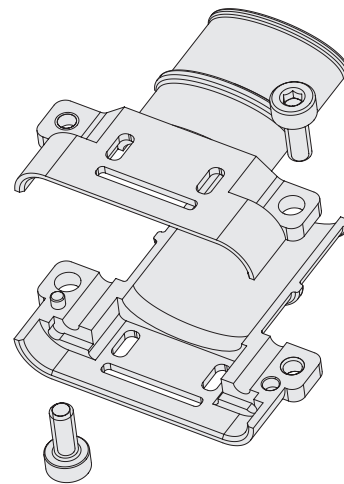
GECKO SCREW-LOK

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 00

SERIES CODE

TOTAL NO. OF CONTACTS

06, 10, 12, 16





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.

GECKO

| | |
|--|---|
| <p>HAND CRIMP TOOL</p> <ul style="list-style-type: none"> ❖ Precision tool with ratchet mechanism and 8-indent form. ❖ Must be used with positioner. ❖ Instruction sheet available.  <p>ORDER CODE Z125-900</p> | <p>POSITIONER</p> <ul style="list-style-type: none"> ❖ Must be used with hand crimp tool.  <p>ORDER CODE Z125-901</p> |
| <p>INSERTION/REMOVAL TOOL</p> <ul style="list-style-type: none"> ❖ For inserting and removing crimped contacts into the rear of mouldings. ❖ Instruction sheet available.  <p>ORDER CODE Z125-902</p> | <p>DE-LATCH TOOL</p> <ul style="list-style-type: none"> ❖ For assisting with unmating latched connectors.  <p>ORDER CODE Z125-926xx00</p> <p>Replace xx with No. of Contacts: 06, 10, 12, 16, 20, 26, 34 or 50</p> |

All dimensions in mm.

Patent Published

