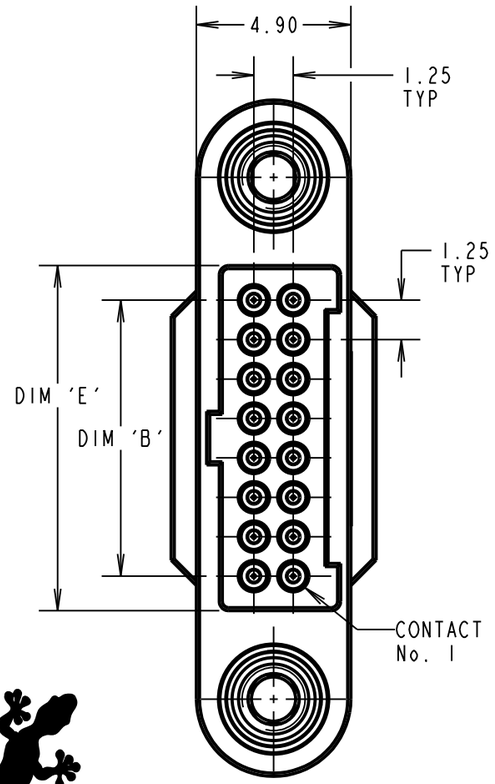
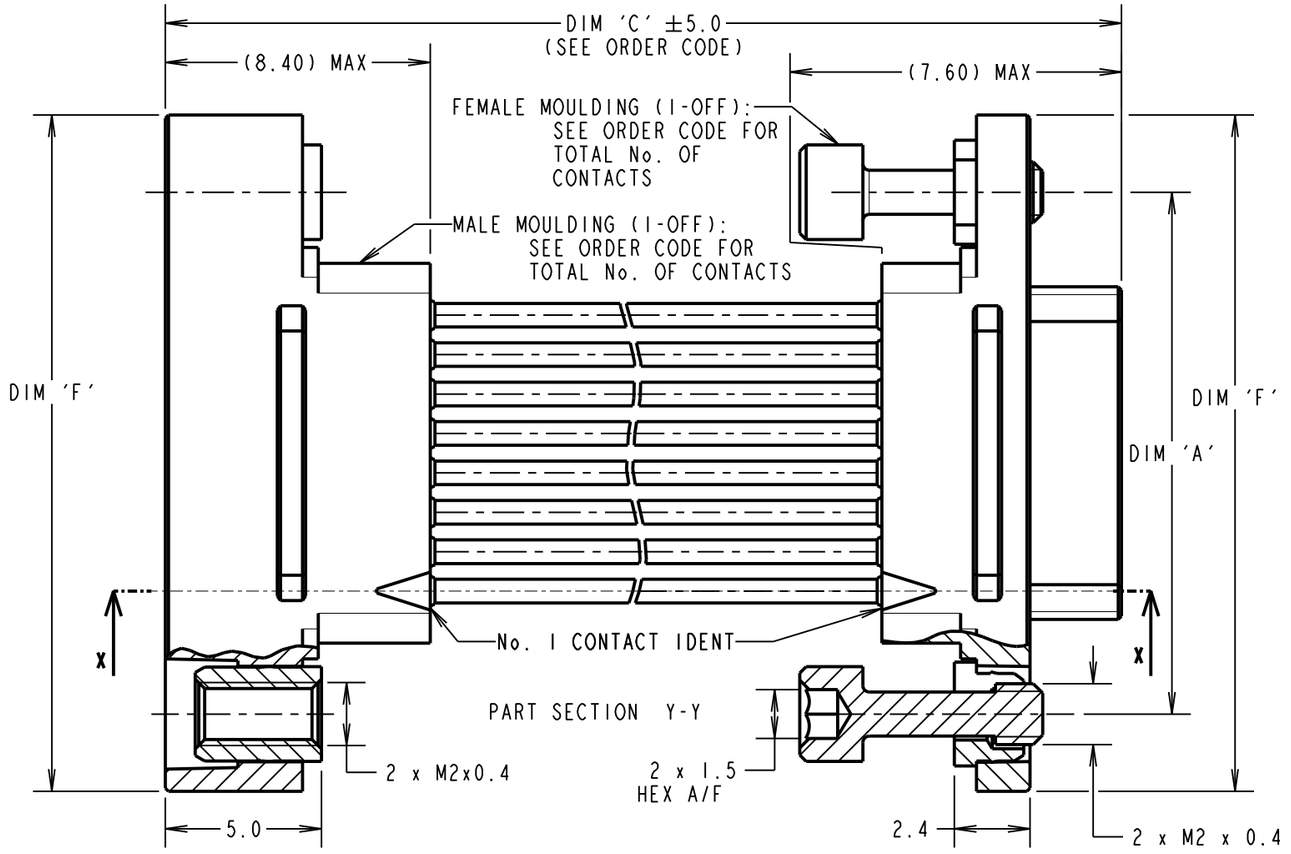
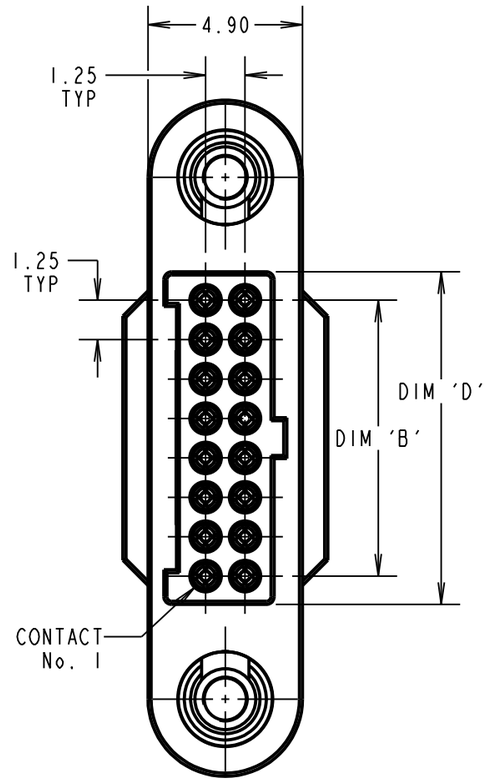
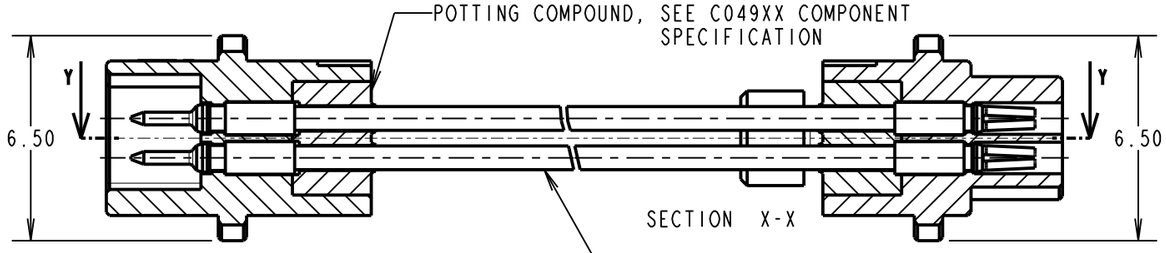
Customer Information Sheet

DRAWING No.: G125-MCXXX05MI-XXXXFI	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm









PATENTED TECHNOLOGY

NOTES:
1. CABLE ASSEMBLIES WILL BE PACKED IN BAGS OF 10.
2. CUSTOM LENGTH CABLE ASSEMBLIES CAN BE PRODUCED FROM 60mm TO 9999mm. CONTACT OUR CABLE TEAM ON CABLES@HARWIN.COM.
3. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATIONS C049XX AND C125XX (LATEST ISSUES).
4. WIRING OF CONNECTOR:
   CONTACT 1 TO CONTACT 1,
   CONTACT 2 TO CONTACT 2, ETC.

DIMENSION	MEASUREMENT
DIM 'A'	(TOTAL No. OF CONTACTS - 2) x 0.625 +7.80
DIM 'B'	(TOTAL No. OF CONTACTS - 2) x 0.625±0.20
DIM 'D'	(TOTAL No. OF CONTACTS - 2) x 0.625 + 1.80
DIM 'E'	(TOTAL No. OF CONTACTS - 2) x 0.625 + 2.00
DIM 'F'	(TOTAL No. OF CONTACTS - 2) x 0.625 + 12.7

EXAMPLE PART No.
12 CONTACT CONNECTORS WITH 150mm OF 26AWG WIRE =
G125-MC11205MI-0150FI
50 CONTACT CONNECTORS WITH 450mm OF 28AWG WIRE =
G125-MC25005MI-0450FI

ORDER CODE:

G125-MCXXX05MI-XXXXFI

- 26 AWG = 1
- 28 AWG = 2

TOTAL No. OF CONTACTS:
06, 10, 12, 16,
20, 26, 34, 50

DIM 'C' LENGTH:
0060 = 60mm MIN
9999 = 9999mm MAX

STOCKED LENGTHS:
0150 = 150mm
0300 = 300mm

RTP	3	10.04.19	21781
NAME	ISS.	DATE	C/NOTE

APPROVED: R.PORTLOCK
CHECKED: S.BENNETT
DRAWN: M.PERREN
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

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TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.20mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL: SEE ABOVE
FINISH: SEE ABOVE
S/AREA: mm²

TITLE: GECKO SL MALE TO FEMALE CABLE ASSEMBLY
DRAWING NUMBER: G125-MCXXX05MI-XXXXFI
SHT 3 OF 3

Customer Information Sheet

DRAWING No.: G125-SERIES COMPONENT SPECIFICATION	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIALS:
MOULDING, PICK & PLACE CAP:
POLYAMIDE, PA4T-GF30 FR(40) UL94V-0,
HALOGEN FREE, FREE OF RED PHOSPHORUS

CONTACTS:
SIGNAL CONTACTS:
MALE PC-TAIL/SMT = PHOSPHOR BRONZE
MALE CRIMP = BRASS
ALL FEMALE CONTACTS = BERYLLIUM COPPER
POWER CONTACTS:
ALL CONTACTS = BERYLLIUM COPPER

LOCKING HARDWARE:
LATCHES: COPPER NICKEL TIN ALLOY
SCREW LOCK: STAINLESS STEEL

BACK POTTING COMPOUND (CABLE ASSEMBLIES ONLY):
STYCAST 2651 MM BACK POTTING WITH CATALYST 9

FINISH:
ALL SIGNAL CONTACTS:
0.2-0.3µm GOLD OVER NICKEL
ALL POWER CONTACTS:
0.76-1.00µm GOLD OVER 1.50-2.50µm NICKEL
AND COPPER FLASH
LATCHES:
3.0µm 100% TIN OVER NICKEL

MECHANICAL:
DURABILITY = 1000 OPERATIONS
RETENTION IN HOUSING (ALL CONTACTS) = 6.0N MIN
SIGNAL CONTACTS:
INSERTION FORCE = 2.8N MAX
WITHDRAWAL FORCE = 0.2N MIN
POWER CONTACTS:
INSERTION FORCE = 7.0N MAX
WITHDRAWAL FORCE = 0.2N MIN
SCREW-LOK:
RETENTION IN HOUSING = 20.0N MIN
LATCHES:
RETENTION IN HOUSING = 4.0N MIN

ENVIRONMENTAL:
CLASSIFICATION: 65/150/56 DAYS AT 93% RH

TEMPERATURE RANGE:
* EIA-364-32 : 2000 TEST CONDITION IV, DWELL
30mins, 5 CYCLES -65°C TO +150°C

MECHANICAL:
VIBRATION AND SHOCK:
* EIA-364-28D : 1999: TEST CONDITION IV: VIBRATION SEVERITY:
10Hz TO 2000Hz, 1.5mm, 198mm/s² (20G). DURATION 2Hr
* EIA-364-28D : 1999: TEST CONDITION IV: VIBRATION SEVERITY:
10Hz TO 2000Hz, 1.5mm, 198mm/s² (20G). DURATION 2Hr
* EIA-364-27B : 1996: TEST CONDITION E SHOCK SEVERITY: 981mm/s²
(100G) FOR 6ms IN Z AXIS, 490mm/s² (50G) FOR 11m/s IN X & Y AXIS.
* EIA-364-01A : 2000: ACCELERATION: 490mm/s² (50G)
* BUMP SEVERITY: 390mm/s² (40G), 4000±10 BUMPS
* TESTED WITH LATCHED CONNECTORS

ELECTRICAL:
CURRENT RATING:
SIGNAL CONTACTS:
EIA-364-70A : 1998: INDIVIDUAL CONTACT IN ISOLATION AT 25°C = 2.8A MAX
EIA-364-70A : 1998: ALL CONTACTS SIMULTANEOUSLY AT 25°C = 2.0A MAX
POWER CONTACTS:
EIA-364-70A : 1998: PER CONTACT, THROUGH ALL CONTACTS = 10A MAX
CONTACT RESISTANCE:
EIA-364-06C : 2006: INITIAL CONTACT RESISTANCE = 20mΩ MAX
EIA-364-06C : 2006: CONTACT RESISTANCE AFTER CONDITIONING = 25mΩ MAX
VOLTAGE PROOF:
EIA-364-20C : 2004: SEA LEVEL (1013mbar) = 600V DC/AC PEAK
EIA-364-20C : 2004: ALTITUDE LEVEL (44mbar, 21,336m/70,000ft) = 350V DC/AC PEAK
WORKING VOLTAGE:
AT SEA LEVEL (1006mbar) = 450V DC/AC PEAK
AT ALTITUDE (44mbar, 21,336m/70,000ft) = 250V DC/AC PEAK

INSULATION RESISTANCE:
EIA-364-21C : 2000: INSULATION RESISTANCE (INITIAL)
= 10GΩ MIN AT 500V DC
EIA-364-21C : 2000: INSULATION RESISTANCE (AFTER CONDITIONING
= >1GΩ MIN AT 500V DC

FOR FULL COMPONENT SPECIFICATION SEE C125XX (LATEST ISSUE).

RTP	5	04.10.19	22083
NAME	ISS.	DATE	C/NOTE
APPROVED:	R.PORTLOCK		
CHECKED:	S.BENNETT		
DRAWN:	S.FLOWER		
CUSTOMER REF.:			
ASSEMBLY DRG:			

gecko

PATENTED TECHNOLOGY

HARWiN

www.harwin.com
technical@harwin.com

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X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL: SEE ABOVE

FINISH: SEE ABOVE

S/AREA: mm²

TITLE: G125 SERIES COMPONENT SPECIFICATION

DRAWING NUMBER: G125-SERIES CONNECTORS

SHT 1 OF 1

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Harwin:

G125-MC10605M1-0150F1 G125-MC10605M1-0300F1 G125-MC11005M1-0150F1 G125-MC11005M1-0300F1 G125-MC11205M1-0150F1 G125-MC11205M1-0300F1 G125-MC13405M1-0150F1 G125-MC13405M1-0300F1 G125-MC15005M1-0150F1 G125-MC15005M1-0300F1 G125-MC11605M1-0150F1 G125-MC11605M1-0300F1 G125-MC12005M1-0150F1 G125-MC12005M1-0300F1 G125-MC12605M1-0150F1 G125-MC12605M1-0300F1