

# Customer Information Sheet

DRAWING No.: G125-MCXXX05LX-XXXXM

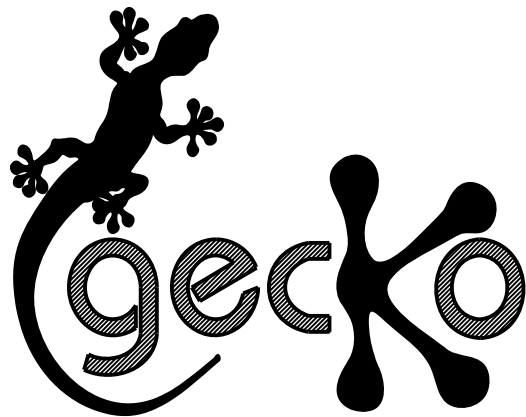
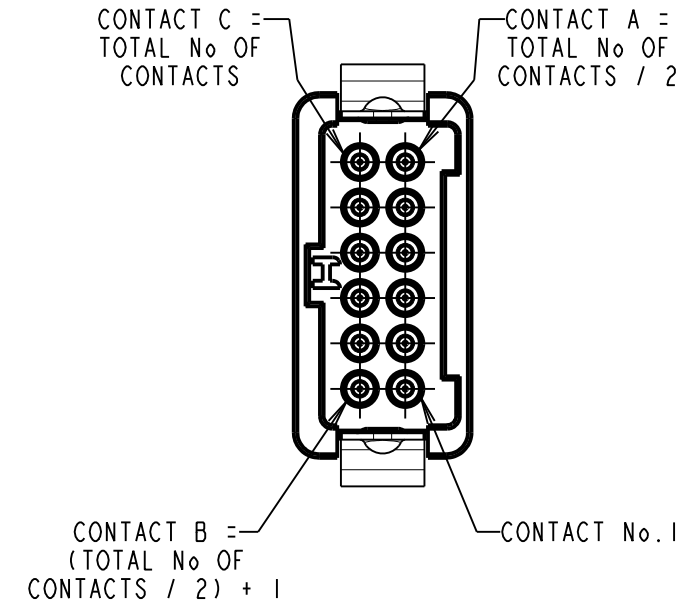
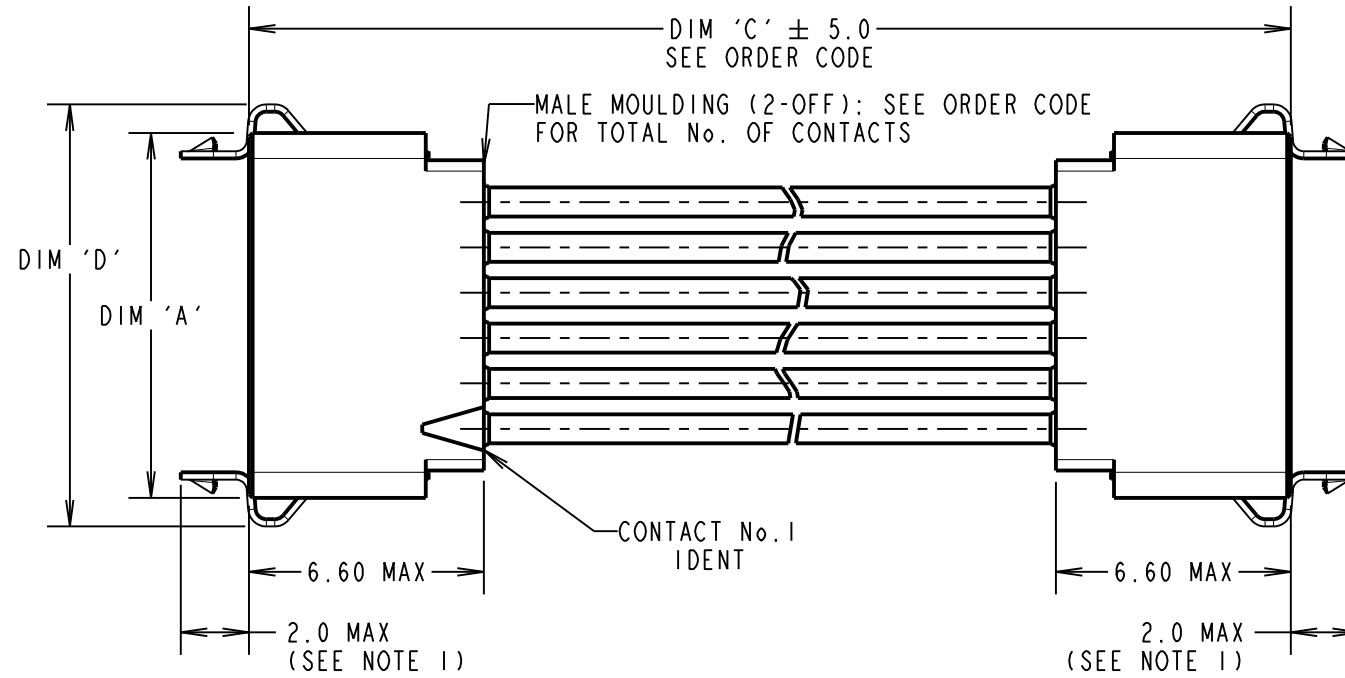
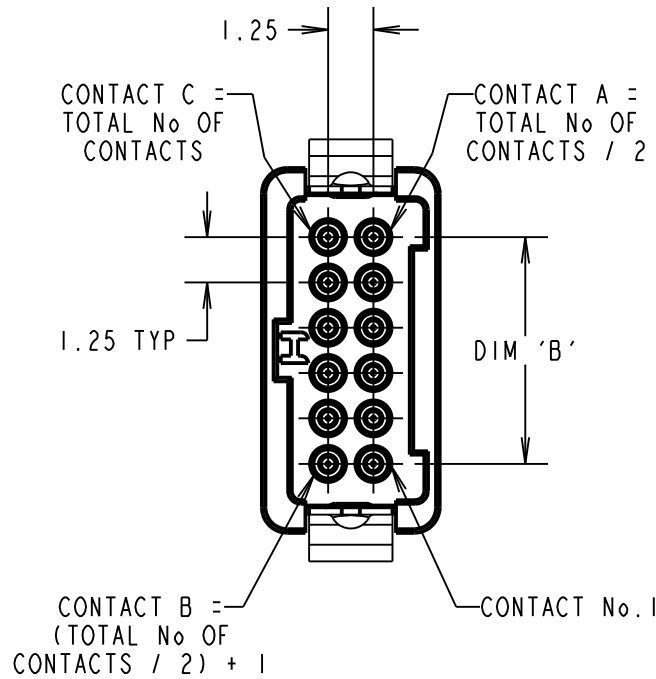
IF IN DOUBT - ASK

©

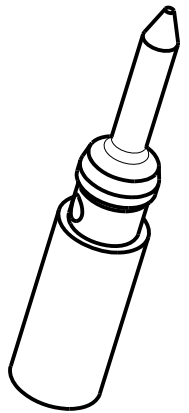
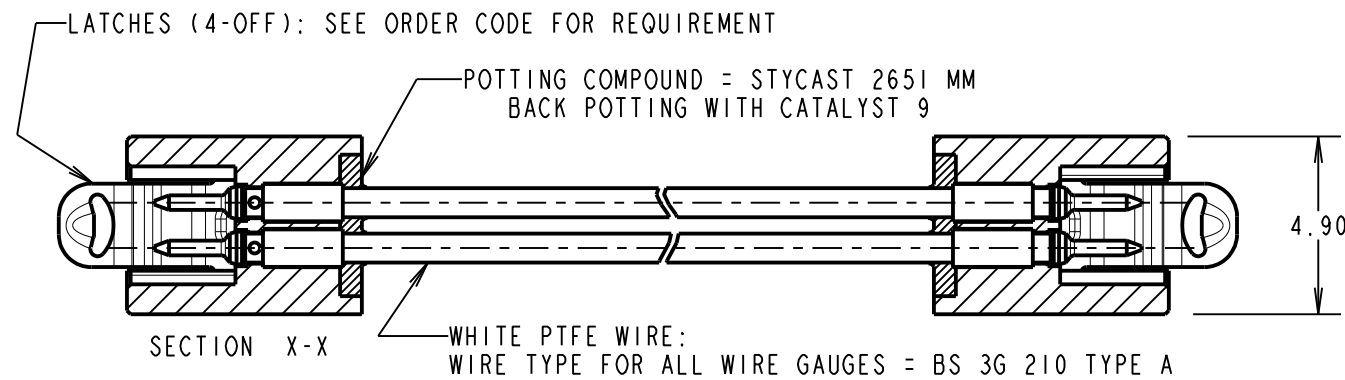
NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



PATENT GRANTED - US 13/848813  
 PATENT PENDING - GB 1205109.0  
 PATENT PENDING - EP 13159969.8



**NOTES:**

- LATCHES ARE SHOWN FOR ILLUSTRATION ONLY. WHEN "L0" IS SPECIFIED IN THE ORDER CODE NO LATCHES WILL BE FITTED.
- WIRING OF CABLES:  
 CONTACT 1 TO CONTACT 1, CONTACT 2 TO CONTACT 2,  
 CONTACT 3 TO CONTACT 3... CONTACT A TO CONTACT A...  
 CONTACT B TO CONTACT B... CONTACT C TO CONTACT C.
- CABLE ASSEMBLIES WILL BE PACKED IN BAGS OF 10.
- CUSTOM LENGTH CABLE ASSEMBLIES CAN BE PRODUCED FROM 60mm TO 9999mm. CONTACT OUR CABLE TEAM ON CABLES@HARWIN.COM.

DIM 'A'	(TOTAL No. OF CONTACTS - 2) x 0.625 + 3.80
DIM 'B'	(TOTAL No. OF CONTACTS - 2) x 0.625
DIM 'D'	(TOTAL No. OF CONTACTS - 2) x 0.625 + 4.8

**G125-MCXXX05LX-XXXXM**

26 AWG = 1	DIM 'C' LENGTH: 0150 = 150mm 0300 = 300mm SEE NOTE 4
28 AWG = 2	
30 AWG = 3	
32 AWG = 4	

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

LATCHES:  
L0 = NO LATCHES  
L4 = LATCHES

MGP	3	30.08.16	13389
NAME	ISS.	DATE	C/NOTE
APPROVED: MGP			
CHECKED: MSP			
DRAWN: S.FLOWER			
CUSTOMER REF.:			
ASSEMBLY DRG:			

**HARWIN**

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**TOLERANCES**  
 X. = ±1mm  
 X.X = ±0.50mm  
 X.XX = ±0.10mm  
 X.XXX = ±0.01mm  
 ANGLES = ±5°  
 UNLESS STATED

**MATERIAL:**  
 SEE SHEET 3

**FINISH:** SEE SHEET 3

**S/AREA:** mm<sup>2</sup>

**TITLE:**  
 G125 SERIES MALE CRIMP TO MALE CRIMP CABLE ASSY

**DRAWING NUMBER:**  
 G125-MCXXX05LX-XXXXM

SHT 2 OF 3

# Customer Information Sheet

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

**SPECIFICATIONS:**

- \* EIA-364-01A : 2000: ACCELERATION: 490 mm/s<sup>2</sup> (50G)
- \* BUMP SEVERITY: 390 mm/s<sup>2</sup> (40G), 4000± 10 BUMPS
- \* TESTED WITH LATCHED CONNECTORS

**MATERIALS:**

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

**ELECTRICAL:**

**CURRENT RATING:**

- 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

**CONTACTS:**

MALE PC-TAIL/SMT = PHOSPHOR BRONZE  
MALE CRIMP = BRASS  
ALL FEMALE CONTACTS = COPPER ALLOY

**CONTACT RESISTANCE:**

- EIA-364-06C : 2006: INITIAL CONTACT RESISTANCE = 20mΩ MAX
- EIA-364-06C : 2006: CONTACT RESISTANCE AFTER CONDITIONING = 25mΩ MAX

**LATCHES:**

COPPER NICKEL TIN ALLOY

**BACK POTTING COMPOUND (CABLE ASSEMBLIES ONLY):**

STYCAST 2651 MM BACK POTTING WITH CATALYST 9

**WORKING VOLTAGE:**

- EIA-364-20C : 2004: SEA LEVEL (1006mbar) = 450V AC/DC PEAK
- EIA-364-20C : 2004: ALTITUDE LEVEL (44mbar) = 250V AC/DC PEAK

**FINISH:**

ALL CONTACTS:  
0.2-0.3µ GOLD OVER NICKEL  
LATCHES:  
3.0µ 100% TIN OVER NICKEL

VOLTAGE PROOF AT SEA LEVEL (1013mbar) = 600V AC/DC PEAK

**INSULATION RESISTANCE:**

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

**MECHANICAL:**

DURABILITY = 1000 OPERATIONS  
INSERTION FORCE = 2.8N MAX  
WITHDRAWAL FORCE = 0.2N MIN

FOR FULL COMPONENT SPECIFICATION SEE G125XX (LATEST ISSUE).

**ENVIRONMENTAL:**

CLASSIFICATION: 65/150/96 HOURS AT 95% RH

**TEMPERATURE RANGE:**

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

\* EIA-364-28D : 1999: TEST CONDITION IV: VIBRATION SEVERITY:  
10Hz TO 2000Hz, 1.5MM, 198 mm/s<sup>2</sup> (20G). DURATION 2Hr

\* EIA-364-27B : 1996: TEST CONDITION E SHOCK SEVERITY: 981 mm/s<sup>2</sup>  
(100G) FOR 6ms IN Z AXIS, 490 mm/s<sup>2</sup> (50G) FOR 11ms IN X&Y AXIS.



PATENT PENDING - UK 1205109.0

SF	11.01.13	11910
NAME	DATE	C/NOTE
APPROVED:	S.FLOWER	
CHECKED:	S.BENNETT	
DRAWN:	S.FLOWER	

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~~X = ±1mm  
 X.X = ±0.25mm  
 X.XX = ±0.10mm  
 X.XXX = ±0.01mm  
 ANGLES = ±5°  
 UNLESS STATED~~

**MATERIAL:**

SEE ABOVE

**FINISH:**

SEE ABOVE

**TITLE:**

G125 SERIES COMPONENT SPECIFICATION

**DRAWING NUMBER:**

**G125-SERIES CONNECTORS**

SHT  
3  
OF  
3