

Customer Information Sheet

DRAWING No.: G125-FCXXX05L0-XXXXL

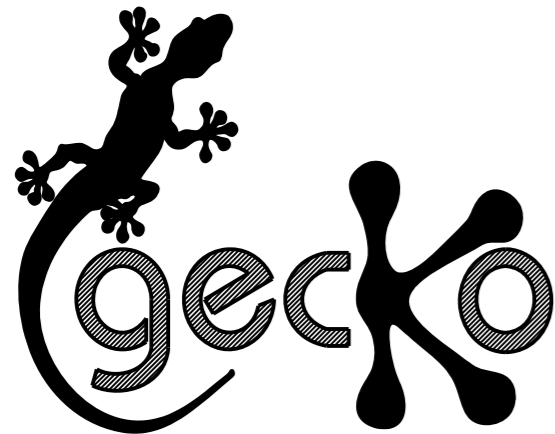
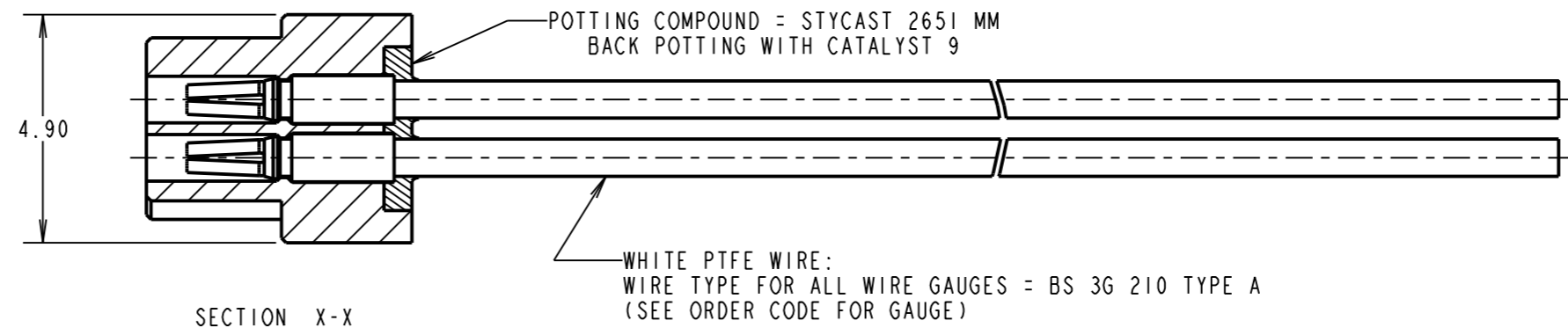
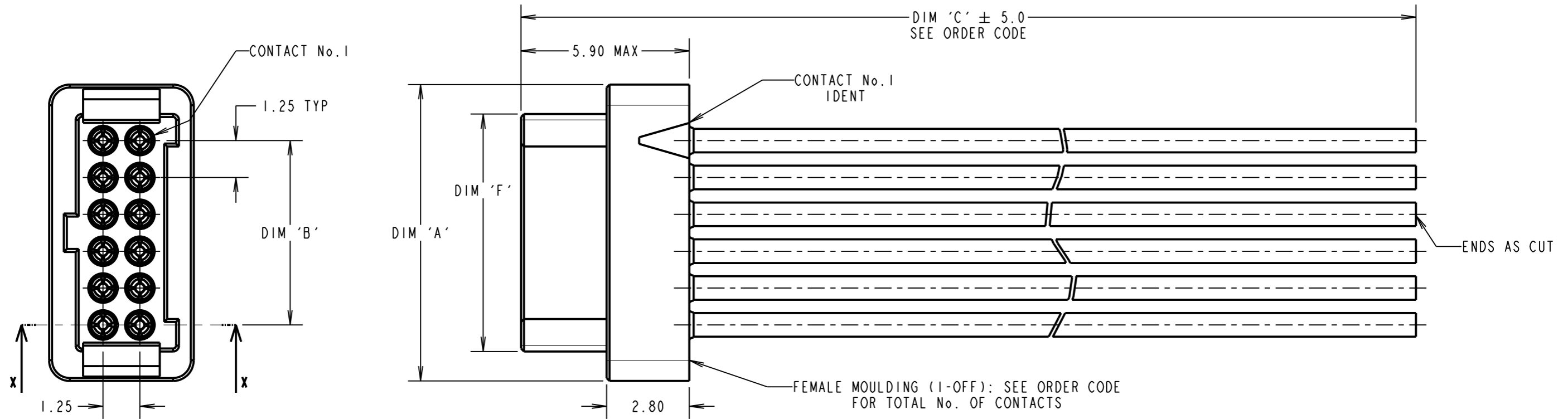
IF IN DOUBT - ASK

©

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

| | |
|---------|---|
| DIM 'A' | (TOTAL No. OF CONTACTS - 2) x 0.625 + 3.80 |
| DIM 'B' | (TOTAL No. OF CONTACTS - 2) x 0.625 |
| DIM 'F' | (TOTAL No. OF CONTACTS - 2) x 0.625 + 1.80 |

ORDER CODE:

G125-FCXXX05L0-XXXXL

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

DIM 'C' LENGTH:
0150 = 150mm
0450 = 450mm
SEE NOTE 2

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

| | | | |
|-----------------|------|----------|--------|
| MGP | 4 | 30.08.16 | 13389 |
| NAME | ISS. | DATE | C/NOTE |
| APPROVED: MGP | | | |
| CHECKED: MSP | | | |
| DRAWN: S.FLOWER | | | |
| CUSTOMER REF.: | | | |
| ASSEMBLY DRG: | | | |

NOTES:

- 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.

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:

mm²

TITLE:

G125 SERIES FEMALE CRIMP CONNECTOR WITH PIGTAIL

DRAWING NUMBER:

G125-FCXXX05L0-XXXXL

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:

MATERIALS:

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

CONTACTS:

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

LATCHES:

COPPER NICKEL TIN ALLOY

BACK POTTING COMPOUND (CABLE ASSEMBLIES ONLY):

STYCAST 2651 MM BACK POTTING WITH CATALYST 3

FINISH:

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

MECHANICAL:

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

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/s² (20G). DURATION 2Hr

* EIA-364-27B : 1996: TEST CONDITION E SHOCK SEVERITY: 981 mm/s²
(100G) FOR 6ms IN Z AXIS, 490 mm/s² (50G) FOR 11ms IN X&Y AXIS.

* EIA-364-01A : 2000: ACCELERATION: 490 mm/s² (50G)
* BUMP SEVERITY: 390 mm/s² (40G), 4000± 10 BUMPS
* TESTED WITH LATCHED CONNECTORS

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

CONTACT RESISTANCE:

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

WORKING VOLTAGE:

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

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

FOR FULL COMPONENT SPECIFICATION SEE G125XX (LATEST ISSUE).



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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ANGLES = ±5°
UNLESS STATED

MATERIAL:

SEE ABOVE

FINISH:

SEE ABOVE

TITLE:

G125 SERIES COMPONENT SPECIFICATION

DRAWING NUMBER:

G125-SERIES CONNECTORS

SHT
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OF
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