

# Customer Information Sheet

DRAWING No.: G125-XWXXXXXX94

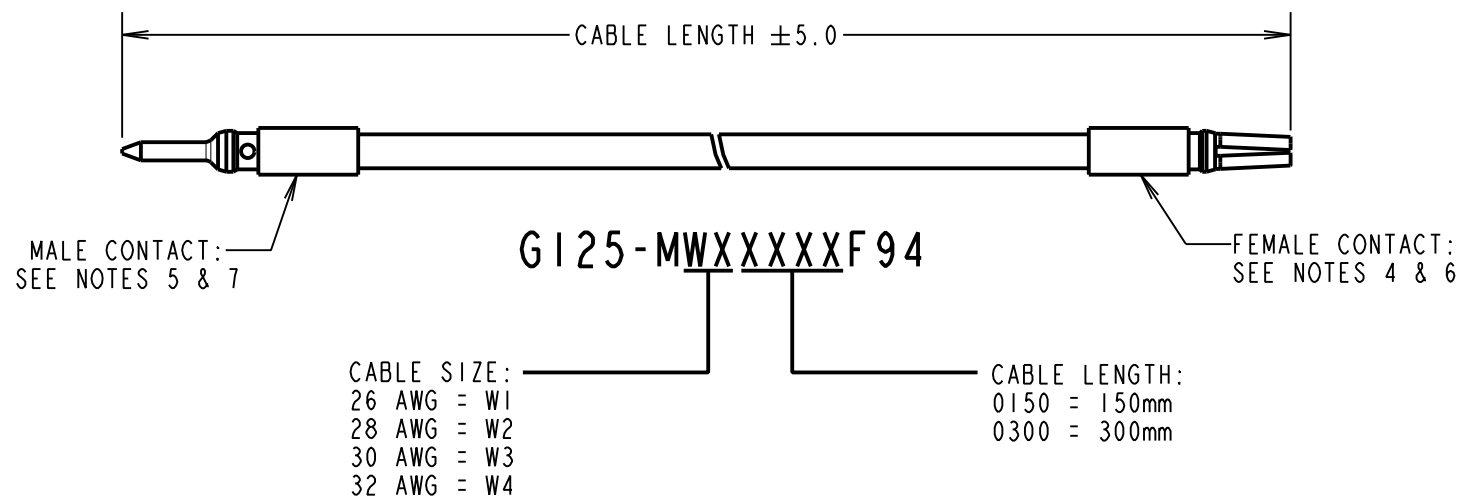
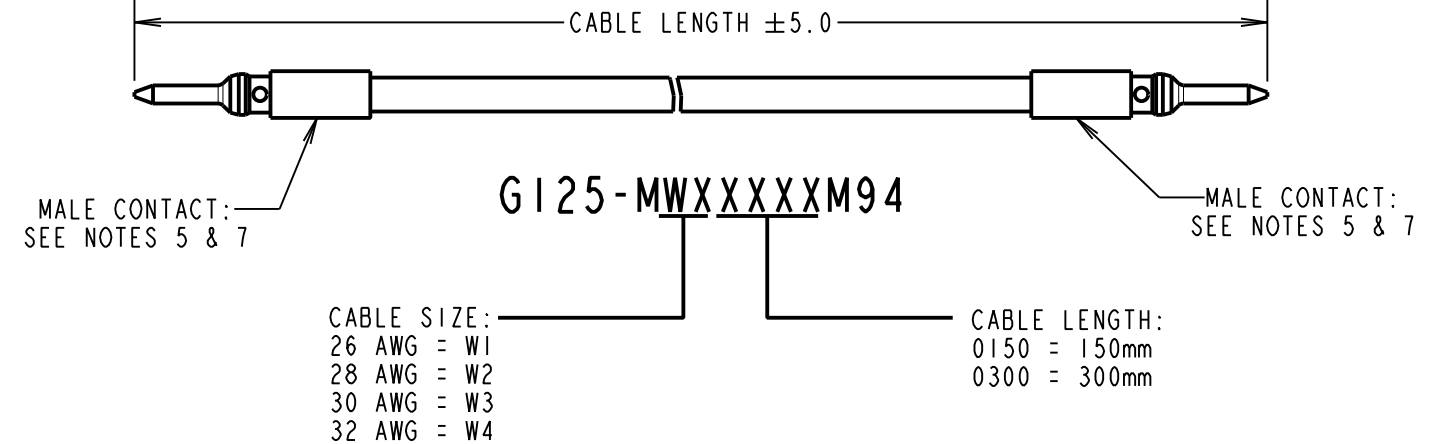
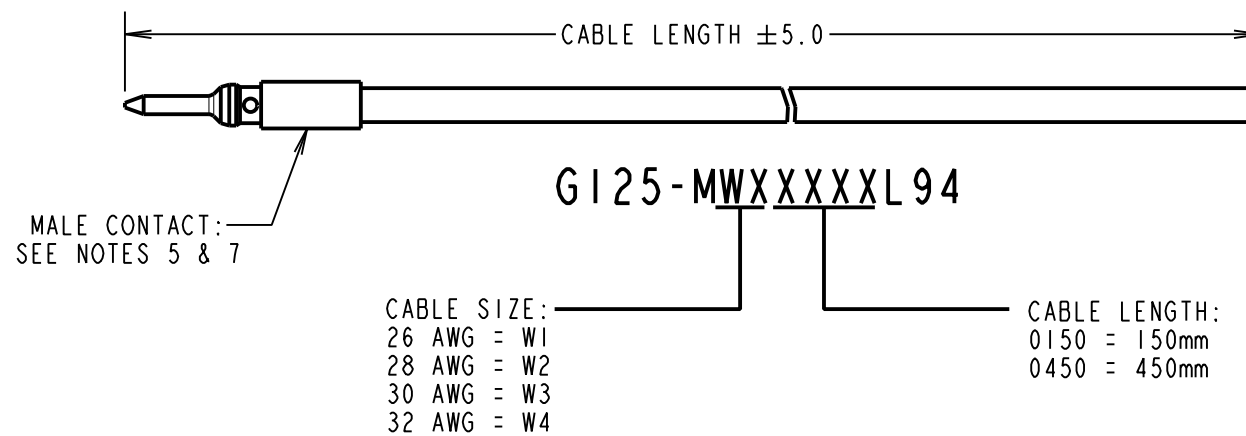
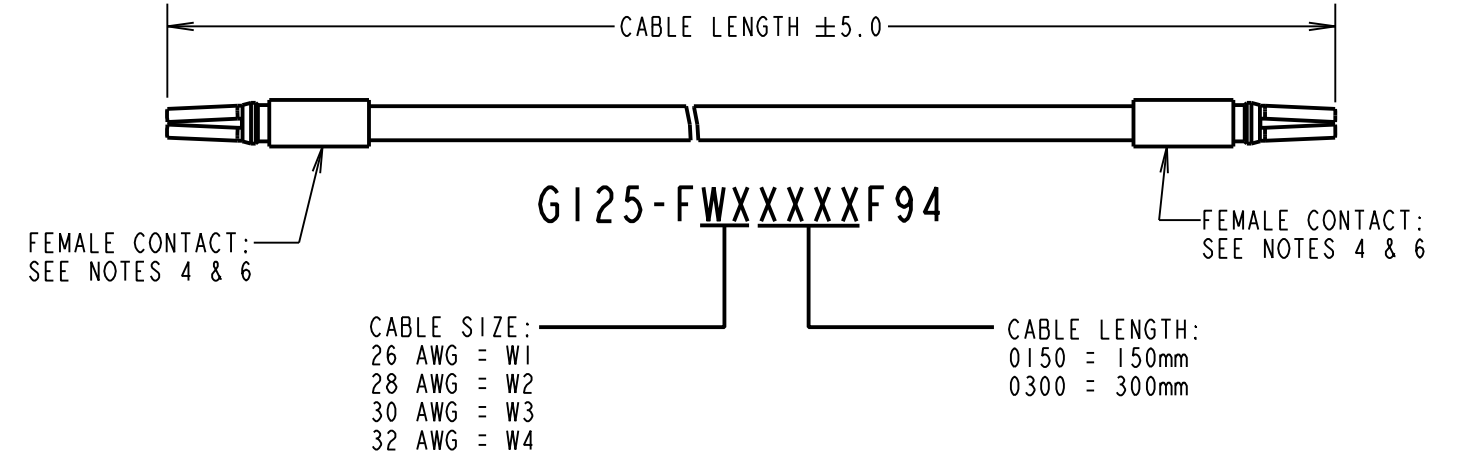
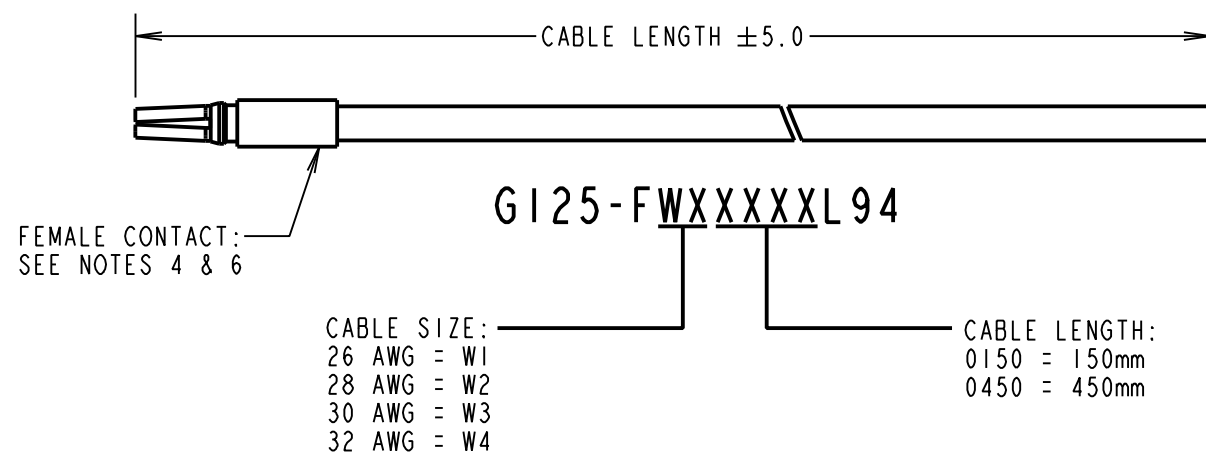
IF IN DOUBT - ASK

©

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



**NOTES:**

1. PACK SIZE: 10 ASSEMBLIES PER BAG. BAG SIZE 280mm x 170mm WITH RESEALABLE TOP. BAGS ARE PACKED IN SUITABLE SIZED BOX.
2. CONTACT INSERTION / WITHDRAWAL KIT = Z125-902.
3. WHITE PTFE WIRE. WIRE TYPE FOR ALL WIRE GAUGES = BS 3G 210 TYPE A.
4. G125-0010005 IS SUITABLE FOR WIRE GAUGE 26 AWG. MAXIMUM INSULATION DIAMETER  $\varnothing$ 0.80mm.
5. G125-1010005 IS SUITABLE FOR WIRE GAUGE 26 AWG. MAXIMUM INSULATION DIAMETER  $\varnothing$ 0.80mm.
6. G125-0020005 IS SUITABLE FOR WIRE GAUGE 28-32 AWG. MAXIMUM INSULATION DIAMETER  $\varnothing$ 0.72mm.
7. G125-1020005 IS SUITABLE FOR WIRE GAUGE 28-32 AWG. MAXIMUM INSULATION DIAMETER  $\varnothing$ 0.72mm.
8. RECOMMENDED POTTING COMPOUND = STYCAST 2651 MM BACK POTTING + CATALYST 9.

SF	2	06.11.12	11860
NAME	ISS.	DATE	C/NOTE
APPROVED:		S.FLOWER	
CHECKED:		M.PLESTED	
DRAWN:		S.BENNETT	
CUSTOMER REF.:			
ASSEMBLY DRG:			



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**TOLERANCES**  
 X. =  $\pm$ 1mm  
 X.X =  $\pm$ 0.25mm  
 X.XX =  $\pm$ 0.10mm  
 X.XXX =  $\pm$ 0.01mm  
 ANGLES =  $\pm$ 5°  
 UNLESS STATED

**MATERIAL:**  
 SEE SHEET 3  
**FINISH:** SEE SHEET 3  
**S/AREA:** mm<sup>2</sup>

**TITLE:**  
 G125 SERIES  
 PRE-CRIMPED WIRE ASSEMBLIES  
**DRAWING NUMBER:**  
 G125-XWXXXXXX94  
 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

**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

**MECHANICAL:**

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

**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 C125XX (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	05.11.12	11860
NAME	DATE	C/NOTE
APPROVED:	S.FLOWER	
CHECKED:	M.PLESTED	
DRAWN:	S.FLOWER	

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**TOLERANCES**  
~~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  
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