

# Customer Information Sheet

DRAWING No.: G125-XWXXXXXX94

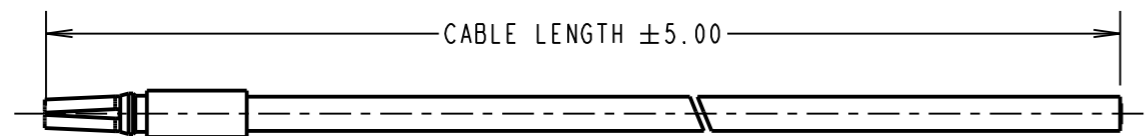
IF IN DOUBT - ASK

©

NOT TO SCALE

THIRD ANGLE PROJECTION

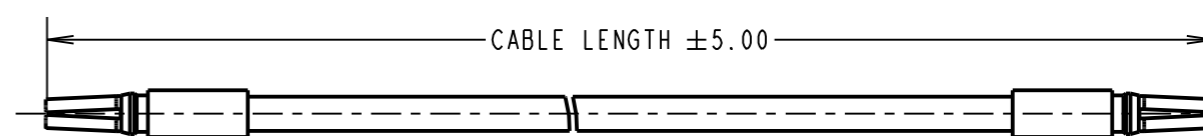
ALL DIMENSIONS IN mm



**G125-FWXXXXXL94**  
 FEMALE CONTACT:  
 SEE NOTES 4 & 6

CABLE SIZE:  
 26 AWG = W1  
 28 AWG = W2  
**32 AWG = W4**

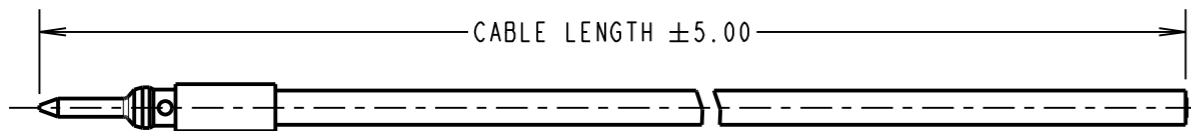
CABLE LENGTH:  
 0060 = 60mm MIN  
 9999 = 9999mm MAX



**G125-FWXXXXXF94**  
 FEMALE CONTACT:  
 SEE NOTES 4 & 6

CABLE SIZE:  
 26 AWG = W1  
 28 AWG = W2  
**32 AWG = W4**

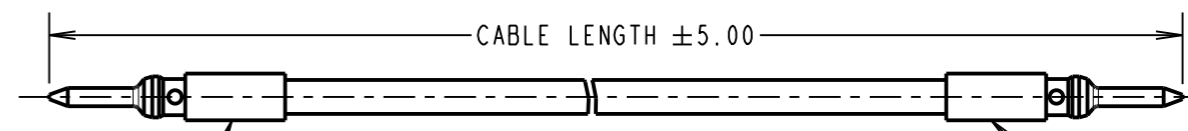
CABLE LENGTH:  
 0060 = 60mm MIN  
 9999 = 9999mm MAX



**G125-MWXXXXXL94**  
 MALE CONTACT:  
 SEE NOTES 5 & 7

CABLE SIZE:  
 26 AWG = W1  
 28 AWG = W2  
**32 AWG = W4**

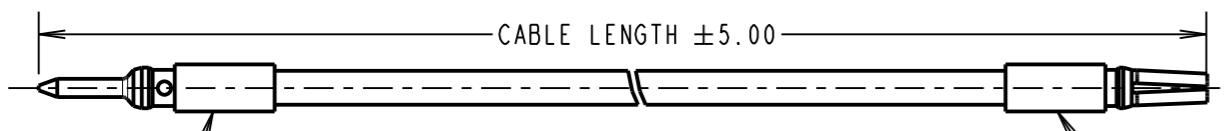
CABLE LENGTH:  
 0060 = 60mm MIN  
 9999 = 9999mm MAX



**G125-MWXXXXXM94**  
 MALE CONTACT:  
 SEE NOTES 5 & 7

CABLE SIZE:  
 26 AWG = W1  
 28 AWG = W2  
**32 AWG = W4**

CABLE LENGTH:  
 0060 = 60mm MIN  
 9999 = 9999mm MAX



**G125-MWXXXXXF94**  
 MALE CONTACT:  
 SEE NOTES 5 & 7

FEMALE CONTACT:  
 SEE NOTES 4 & 6

CABLE SIZE:  
 26 AWG = W1  
 28 AWG = W2  
**32 AWG = W4**

CABLE LENGTH:  
 0060 = 60mm MIN  
 9999 = 9999mm MAX

**OBSOLETE**  
**32AWG Variants**  
**Last Time Buy 21-Aug-2020**

**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.

MSP	4	18.08.15	13051
NAME	ISS.	DATE	C/NOTE
APPROVED: M.PERREN			
CHECKED: S.BENNETT			
DRAWN: S.BENNETT			
CUSTOMER REF.:			
ASSEMBLY DRG:			



PATENT PENDING - US 13/848813  
 PATENT PENDING - UK 1205109.0  
 PATENT PENDING - EP 13159969.8

**HARWIN**

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TOLERANCES  
 X. =  $\pm$ 1mm  
 X.X =  $\pm$ 0.50mm  
 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 2A OF 3

# Customer Information Sheet

DRAWING No.: G125-SERIES COMPONENT SPECIFICATION

IF IN DOUBT - ASK

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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/s<sup>2</sup> (20G). DURATION 2Hr  
\* EIA-364-28D : 1999: TEST CONDITION IV: VIBRATION SEVERITY:  
10Hz TO 2000Hz, 1.5mm, 198mm/s<sup>2</sup> (20G). DURATION 2Hr  
\* EIA-364-27B : 1996: TEST CONDITION E SHOCK SEVERITY: 981mm/s<sup>2</sup>  
(100G) FOR 6ms IN Z AXIS, 490mm/s<sup>2</sup> (50G) FOR 11m/s IN X & Y AXIS.  
\* EIA-364-01A : 2000: ACCELERATION: 490mm/s<sup>2</sup> (50G)  
\* BUMP SEVERITY: 390mm/s<sup>2</sup> (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).



PATENTED TECHNOLOGY

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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:**

mm<sup>2</sup>

**TITLE:**

G125 SERIES COMPONENT SPECIFICATION

**DRAWING NUMBER:**

**G125-SERIES CONNECTORS**

SHT  
1 OF 1

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