

# Customer Information Sheet

DRAWING No.: G125-XWXXXXXX94

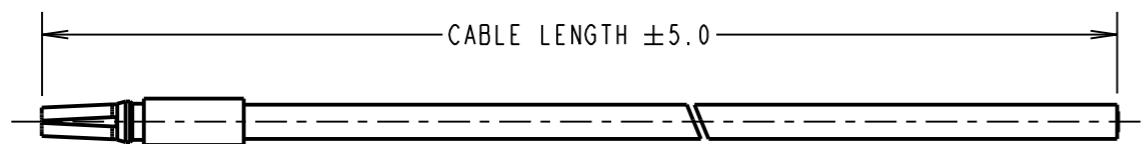
IF IN DOUBT - ASK

©

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

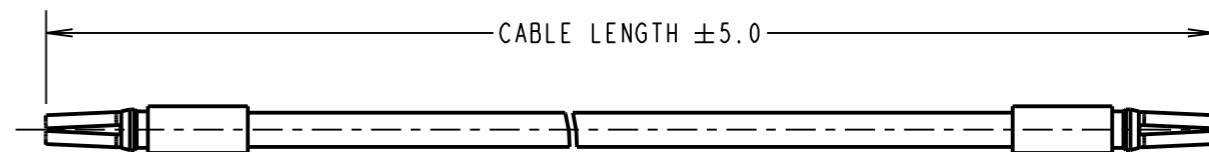


G125-FWXXXXXL94

FEMALE CONTACT:  
SEE NOTES 4 & 6

CABLE SIZE:  
26 AWG = W1  
28 AWG = W2  
30 AWG = W3  
32 AWG = W4

CABLE LENGTH:  
0150 = 150mm  
0450 = 450mm



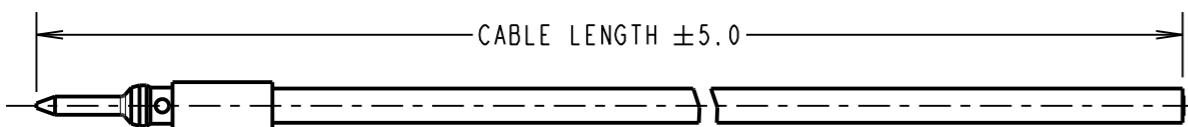
G125-FWXXXXXF94

FEMALE CONTACT:  
SEE NOTES 4 & 6

CABLE SIZE:  
26 AWG = W1  
28 AWG = W2  
30 AWG = W3  
32 AWG = W4

CABLE LENGTH:  
0150 = 150mm  
0300 = 300mm

FEMALE CONTACT:  
SEE NOTES 4 & 6

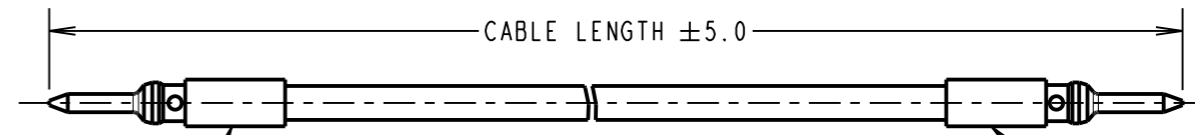


G125-MWXXXXXL94

MALE CONTACT:  
SEE NOTES 5 & 7

CABLE SIZE:  
26 AWG = W1  
28 AWG = W2  
30 AWG = W3  
32 AWG = W4

CABLE LENGTH:  
0150 = 150mm  
0450 = 450mm



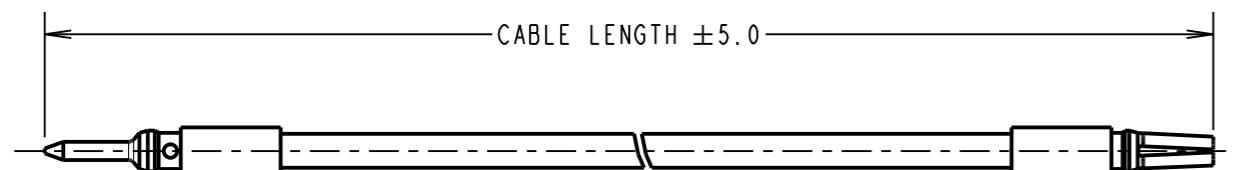
G125-MWXXXXXM94

MALE CONTACT:  
SEE NOTES 5 & 7

CABLE SIZE:  
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28 AWG = W2  
30 AWG = W3  
32 AWG = W4

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0150 = 150mm  
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MALE CONTACT:  
SEE NOTES 5 & 7



G125-MWXXXXXF94

MALE CONTACT:  
SEE NOTES 5 & 7

CABLE SIZE:  
26 AWG = W1  
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CABLE LENGTH:  
0150 = 150mm  
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FEMALE CONTACT:  
SEE NOTES 4 & 6

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. = ±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  
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:**

**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/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.

\* 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

**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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**TOLERANCES**  
/ = ±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