

Customer Information Sheet

DRAWING No.: G125-XWXXXXX94

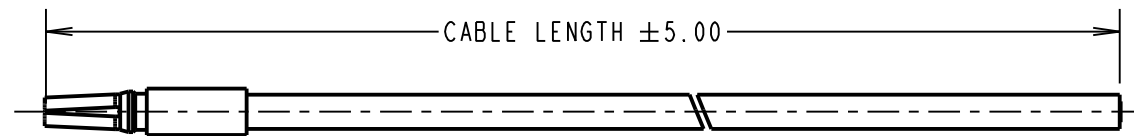
IF IN DOUBT - ASK

©

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

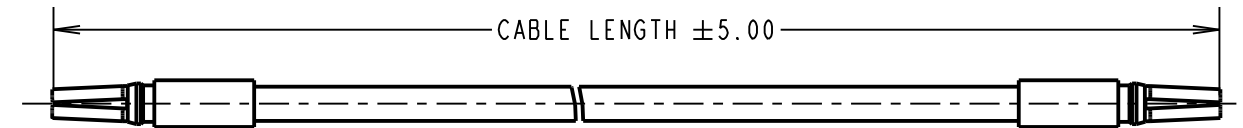


FEMALE CONTACT:
SEE NOTES 4 & 6

G125-FWXXXXXL94

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

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



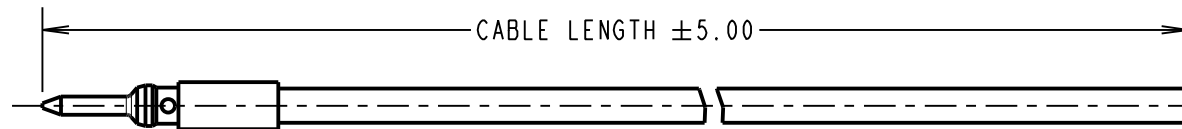
FEMALE CONTACT:
SEE NOTES 4 & 6

G125-FWXXXXXF94

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

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

FEMALE CONTACT:
SEE NOTES 4 & 6

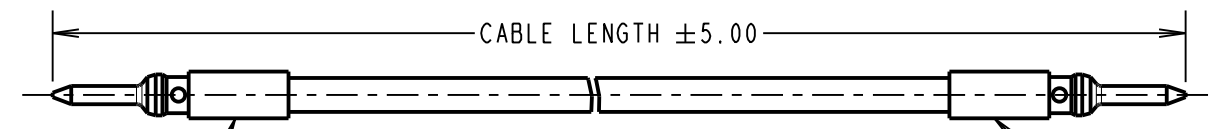


MALE CONTACT:
SEE NOTES 5 & 7

G125-MWXXXXXL94

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

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



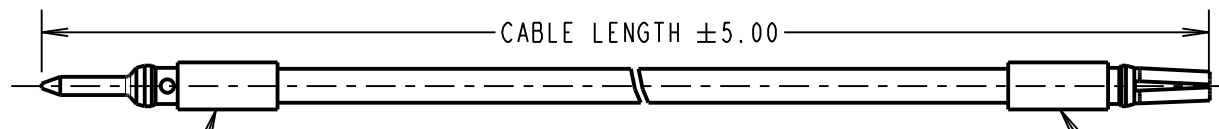
MALE CONTACT:
SEE NOTES 5 & 7

G125-MWXXXXXM94

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

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

MALE CONTACT:
SEE NOTES 5 & 7



MALE CONTACT:
SEE NOTES 5 & 7

G125-MWXXXXXF94

CABLE SIZE:
26 AWG = W1
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CABLE LENGTH:
0060 = 60mm MIN
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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

www.harwin.com
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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: mm²

TITLE:
G125 SERIES
PRE-CRIMPED WIRE ASSEMBLIES

DRAWING NUMBER:
G125-XWXXXXX94

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/s² (20G). DURATION 2Hr
* EIA-364-28D : 1999: TEST CONDITION IV: VIBRATION SEVERITY:
10Hz TO 2000Hz, 1.5mm, 198mm/s² (20G). DURATION 2Hr
* EIA-364-27B : 1996: TEST CONDITION E SHOCK SEVERITY: 981mm/s²
(100G) FOR 6ms IN Z AXIS, 490mm/s² (50G) FOR 11m/s IN X & Y AXIS.
* EIA-364-01A : 2000: ACCELERATION: 490mm/s² (50G)
* BUMP SEVERITY: 390mm/s² (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:

mm²

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:			