

Customer Information Sheet

DRAWING No.: G125-MCXXX05LX-XXXXM

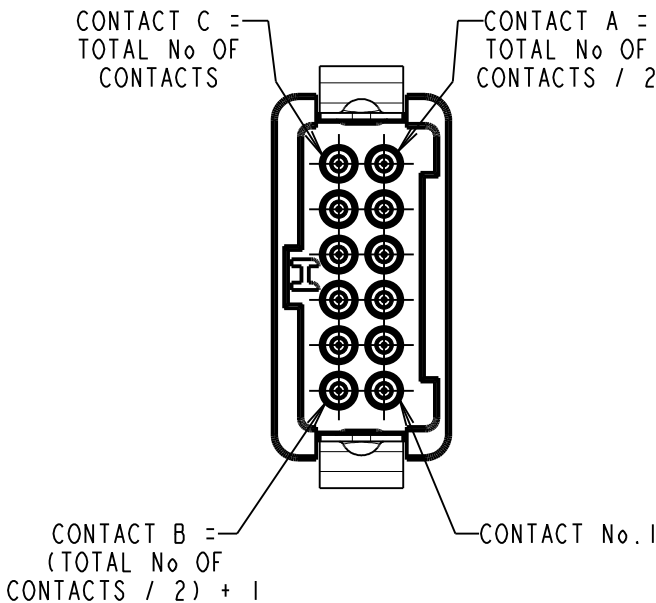
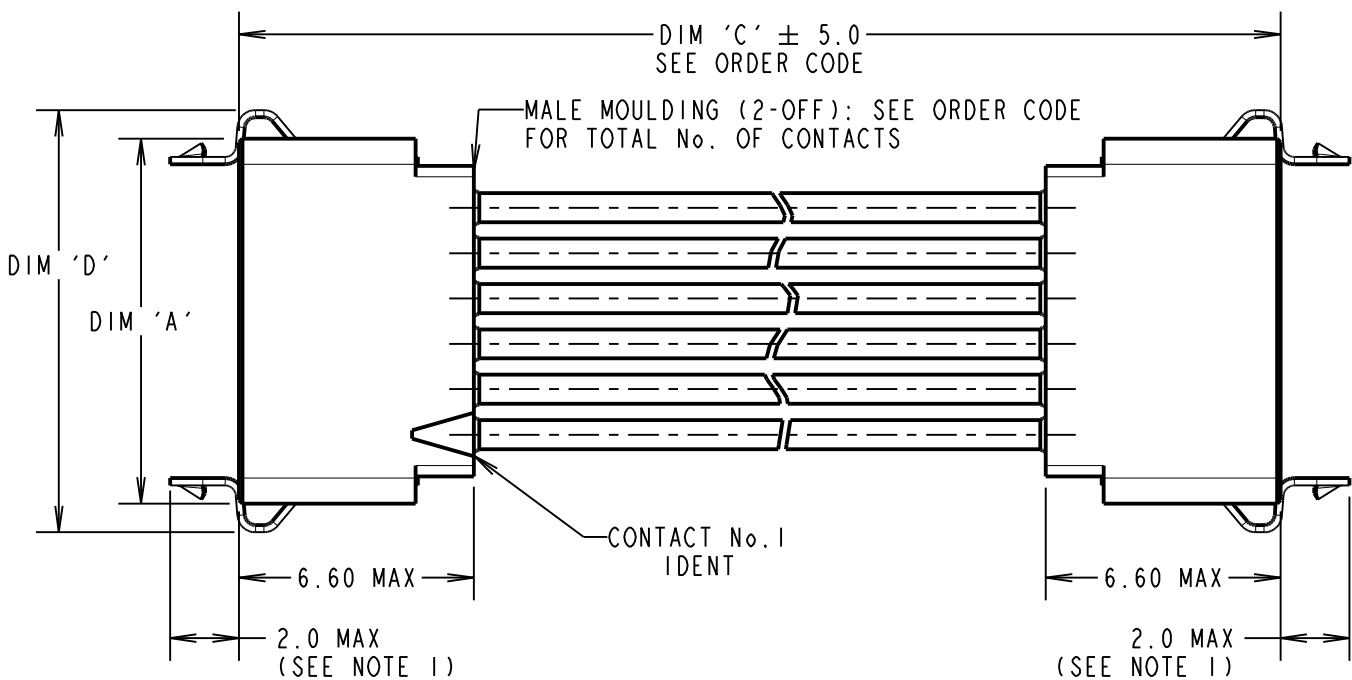
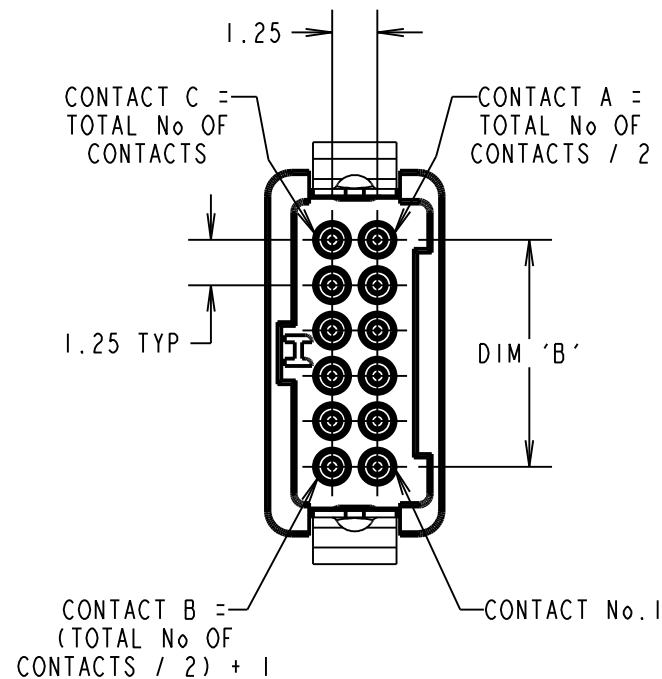
IF IN DOUBT - ASK

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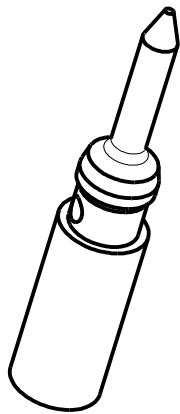
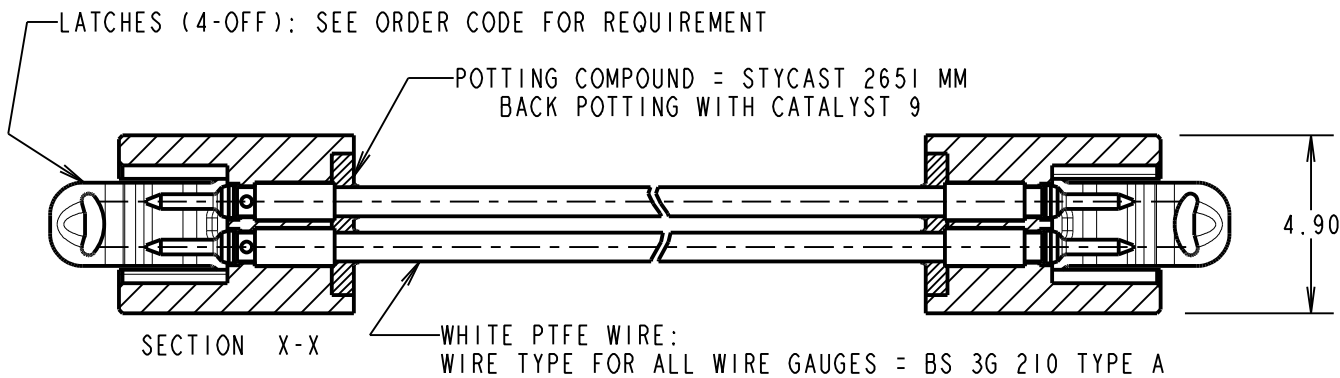
NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



PATENT GRANTED - US 13/848813
PATENT PENDING - GB 1205109.0
PATENT PENDING - EP 13159969.8



- NOTES:
- LATCHES ARE SHOWN FOR ILLUSTRATION ONLY. WHEN "L0" IS SPECIFIED IN THE ORDER CODE NO LATCHES WILL BE FITTED.
 - WIRING OF CABLES:
CONTACT 1 TO CONTACT 1, CONTACT 2 TO CONTACT 2,
CONTACT 3 TO CONTACT 3... CONTACT A TO CONTACT A...
CONTACT B TO CONTACT B... CONTACT C TO CONTACT C.
 - CABLE ASSEMBLIES WILL BE PACKED IN BAGS OF 10.

DIM 'A'	(TOTAL No. OF CONTACTS - 2) x 0.625 + 3.80
DIM 'B'	(TOTAL No. OF CONTACTS - 2) x 0.625
DIM 'D'	(TOTAL No. OF CONTACTS - 2) x 0.625 + 4.8

G125-MCXXX05LX-XXXXM

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

DIM 'C' LENGTH:
0150 = 150mm
0300 = 300mm

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

LATCHES:
L0 = NO LATCHES
L4 = LATCHES

MSP	I	10.08.15	12778
NAME	ISS.	DATE	C/NOTE
APPROVED:	M.PERREN		
CHECKED:	S.BENNETT		
DRAWN:	S.FLOWER		
CUSTOMER REF.:			
ASSEMBLY DRG:			

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 MALE CRIMP
TO MALE CRIMP CABLE ASSY

DRAWING NUMBER:

G125-MCXXX05LX-XXXXM

SHT
2
OF
3

Customer Information Sheet

DRAWING No.: G125-SERIES COMPONENT SPECIFICATION

IF IN DOUBT - ASK



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 9

FINISH:

ALL CONTACTS:
0.2-0.3 μ GOLD OVER NICKEL
LATCHES:
3.0 μ 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 $\pm$ 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 = 20m Ω MAX

EIA-364-06C : 2006: CONTACT RESISTANCE AFTER CONDITIONING = 25m Ω 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 G Ω MIN AT 500V DC

EIA-364-21C : 2000: INSULATION RESISTANCE (AFTER CONDITIONING) = >1 G Ω MIN AT 500V DC

FOR FULL COMPONENT SPECIFICATION SEE C125XX (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	

HARWIN

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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 ABOVE

FINISH:

SEE ABOVE

TITLE:

G125 SERIES COMPONENT SPECIFICATION

DRAWING NUMBER:

G125-SERIES CONNECTORS

SHT
3
OF
3

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Harwin:

G125-MC11205L4-0150F	G125-MC11205L4-0300F	G125-MC11205L4-0300M	G125-MC11205L4-0450L	G125-
MC11605L4-0150F	G125-MC11605L4-0150L	G125-MC11605L4-0300F	G125-MC11605L4-0300M	G125-
MC11605L4-0450L	G125-MC12005L4-0150F	G125-MC12005L4-0150L	G125-MC12005L4-0150M	G125-
MC12005L4-0300F	G125-MC12005L4-0300M	G125-MC12005L4-0450L	G125-MC12605L4-0150F	G125-
MC12605L4-0150L	G125-MC12605L4-0150M	G125-MC12605L4-0300F	G125-MC12605L4-0300M	G125-
MC12605L4-0450L	G125-MC21205L4-0150F	G125-MC21205L4-0150L	G125-MC21205L4-0150M	G125-
MC21205L4-0300F	G125-MC21205L4-0300M	G125-MC21205L4-0450L	G125-MC21605L4-0150F	G125-
MC21605L4-0150L	G125-MC21605L4-0150M	G125-MC21605L4-0300F	G125-MC21605L4-0300M	G125-
MC21605L4-0450L	G125-MC22005L4-0150F	G125-MC22005L4-0150L	G125-MC22005L4-0150M	G125-
MC22005L4-0300F	G125-MC22005L4-0300M	G125-MC22005L4-0450L	G125-MC22605L4-0150F	G125-
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MC31205L4-0300F	G125-MC31205L4-0300M	G125-MC31205L4-0450L	G125-MC31605L4-0150F	G125-
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MC42605L4-0450L	G125-MC11605L4-0150M	G125-MC11205L4-0150M		