

# Customer Information Sheet

DRAWING No.: M80-461XXXX

SHEET 2 OF 2

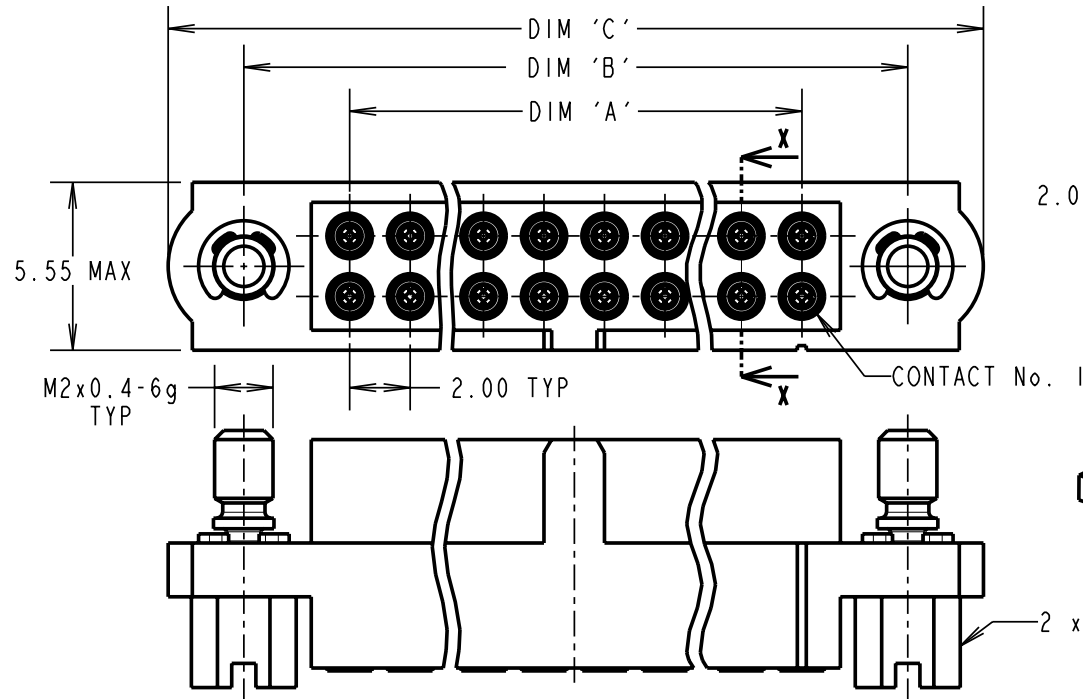
IF IN DOUBT - ASK

©

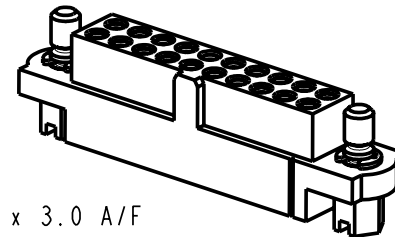
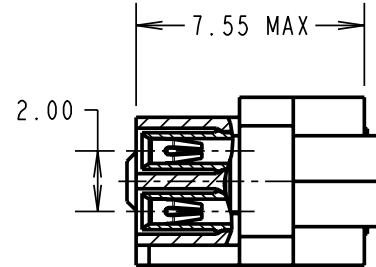
NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



PART SECTION X-X



## SPECIFICATIONS:

## MATERIAL:

MOULDING = GLASS-FILLED PPS, UL94V-0, BLACK

CONTACT CLIP = BERYLLIUM COPPER

CONTACT SHELL = BRASS

JACKSCREW, CIRCLIP = STAINLESS STEEL

## FINISH:

05 = 0.3µ GOLD CLIP, 0.25-0.3µ GOLD SHELL

42 = 0.3µ GOLD CLIP, 3.5-5.0µ 100% TIN SHELL

## ELECTRICAL:

CURRENT RATING AT 25°C = 3.0A MAX

CURRENT RATING AT 85°C = 2.2A MAX

WORKING VOLTAGE = 120V AC/DC

VOLTAGE PROOF = 360V AC/DC

CONTACT RESISTANCE = 25 mΩ MAX

INSULATION RESISTANCE = 100 MΩ MIN

## MECHANICAL:

DURABILITY = 500 OPERATIONS

INSERTION FORCE (Ø0.5mm GAUGE) = 2.8N MAX

WITHDRAWAL FORCE (Ø0.5mm GAUGE) = 0.2N MIN

## ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

PACKING: LOOSE

FOR COMPLETE SPECIFICATION, SEE

COMPONENT SPECIFICATION C005XX (LATEST ISSUE)

| DIMENSION | CALCULATION                |
|-----------|----------------------------|
| DIM 'A'   | TOTAL No. OF CONTACTS - 2  |
| DIM 'B'   | TOTAL No. OF CONTACTS + 5  |
| DIM 'C'   | TOTAL No. OF CONTACTS + 10 |

EXAMPLE: CONNECTOR WITH 20 CONTACTS,  
GOLD ON CONTACT AREA AND 100% TIN ON TAIL,  
M80-4612042

DIM 'A' = 18.00mm

DIM 'B' = 25.00mm

DIM 'C' = 30.00mm

## ORDER CODE:

**M80-461XXXX**

TOTAL No. OF CONTACTS  
04 TO 50  
(EVEN NUMBERS ONLY)

## FINISH

05 - GOLD CLIP, GOLD SHELL

42 - GOLD CLIP, 100% TIN SHELL

## NOTES:

- CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
- FOR EXTRA CONTACTS, USE PART NUMBER M80-0130005 FOR M80-461XX05 AND M80-0130001 FOR M80-461XX42.
- RECOMMENDED WIRE TYPE = BS 3G 210 TYPE A, PTFE INSULATED 24-28 AWG. MAX INSULATION DIAMETER = Ø1.10mm, STRIP WIRE BY 2.00mm.
- RECOMMENDED HAND CRIMP TOOL = M22520/2-01 WITH POSITIONER T5747.
- CONTACT INSERTION AND EXTRACTION TOOL = Z80-280
- INSTRUCTION SHEETS ARE AVAILABLE.

|                      |      |          |        |
|----------------------|------|----------|--------|
| RA                   | 3    | 18.06.08 | 10059  |
| NAME                 | ISS. | DATE     | C/NOTE |
| APPROVED: R.ADDE     |      |          |        |
| CHECKED: M.G.PLESTED |      |          |        |
| DRAWN: W. J. BOURNE  |      |          |        |
| CUSTOMER REF.:       |      |          |        |
| ASSEMBLY DRG:        |      |          |        |

**HARWIN**

|                                                                        |                                                                                    |                                                                                |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
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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

S/AREA: mm<sup>2</sup>

## TITLE:

JACKSCREW DATAMATE  
DIL CRIMP (SMALL BORE)  
FEMALE ASSEMBLY

DRAWING NUMBER:

**M80-461XXXX**

SHT  
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OF  
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