

Customer Information Sheet

DRAWING No.: M80-461XXXX

SHEET 2 OF 2

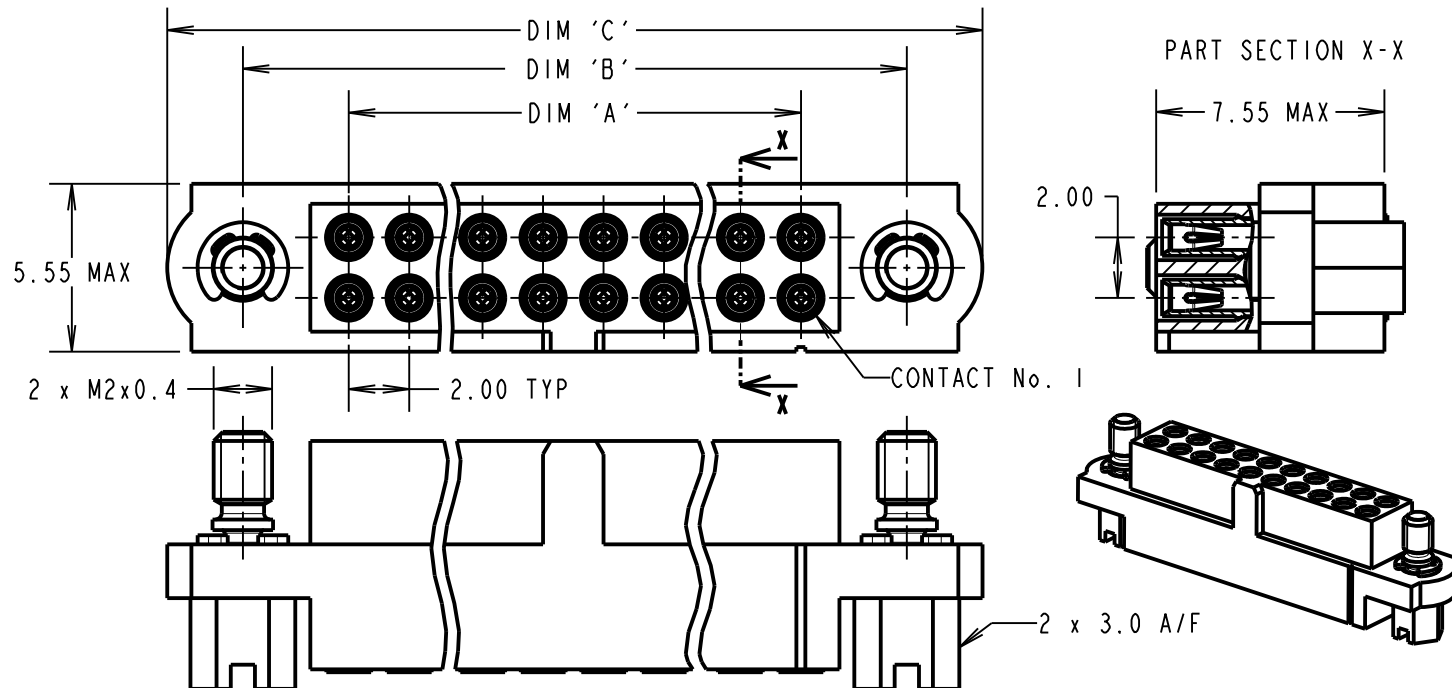
IF IN DOUBT - ASK

(C)

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



SPECIFICATIONS:

MATERIAL:

MOULDING = GLASS-FILLED PPS, UL94V-0, BLACK
CONTACT CLIP = BERYLLIUM COPPER
CONTACT SHELL = COPPER ALLOY
JACKSCREW, CIRCLIP = STAINLESS STEEL
FINISH (ALL OVER NICKEL):
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. REFER TO
TOOLING INSTRUCTION SHEET IS-01 FOR COMPLETE
CRIMPING INSTRUCTIONS.
- CONTACT INSERTION AND EXTRACTION
TOOL = Z80-280. REFER TO TOOLING INSTRUCTION
SHEET IS-25 FOR ASSEMBLY INSTRUCTIONS.

SM	4	22.07.11	11389
NAME	ISS.	DATE	C/NOTE
APPROVED: S. MCCULLAGH			
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: mm²

TITLE:

JACKSCREW DATAMATE
DIL CRIMP (SMALL BORE)
FEMALE ASSEMBLY

DRAWING NUMBER:

M80-461XXXXSHT
2 OF 2

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