

# Customer Information Sheet

DRAWING No.: M80-4E1XXXXF2

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 = BRASS  
JACKSCREW, CIRCLIP = STAINLESS STEEL

**FINISH:**

05 = 0.3 $\mu$  GOLD CLIP, 0.25 - 0.30 $\mu$  GOLD SHELL  
42 = 0.3 $\mu$  GOLD CLIP, 3.5 - 5.0 $\mu$  100% TIN  
OVER NICKEL SHELL

**ELECTRICAL:**

CURRENT RATING AT 25°C = 3.0A MAX  
CURRENT RATING AT 85°C = 2.2A MAX  
(CURRENT RATING DEPENDENT ON WIRE)  
WORKING VOLTAGE = 800V AC/DC  
VOLTAGE PROOF = 1200V AC/DC  
CONTACT RESISTANCE = 25m $\Omega$  MAX  
INSULATION RESISTANCE = 100M $\Omega$  MIN

**MECHANICAL:**

DURABILITY = 500 OPERATIONS  
INSERTION FORCE = 2.8N MAX  
WITHDRAWAL FORCE = 0.2N MIN

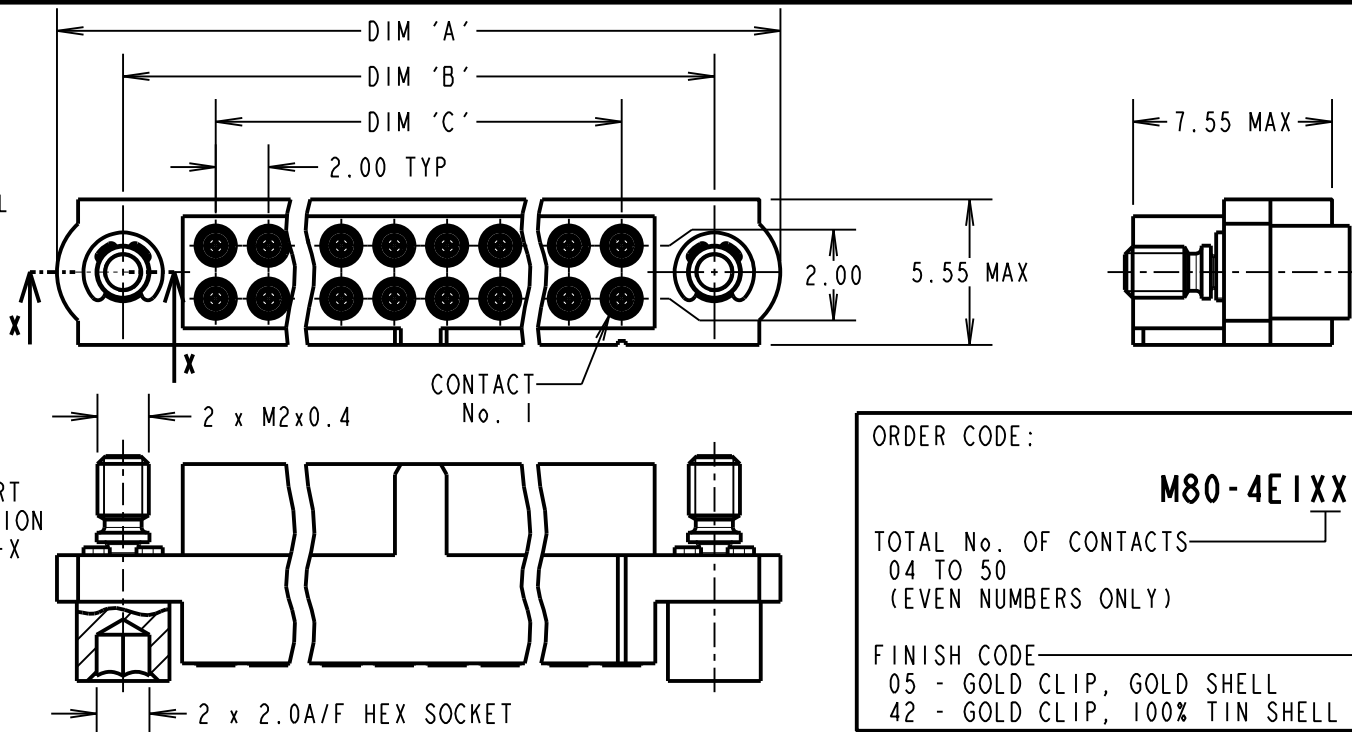
**ENVIRONMENTAL:**

TEMPERATURE RANGE = -55°C TO +125°C

**PACKING:**

BAG

FOR COMPLETE SPECIFICATION, SEE COMPONENT  
SPECIFICATION C005XX (LATEST ISSUE)



ORDER CODE:

**M80-4E1XXXXF2**

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

FINISH CODE \_\_\_\_\_  
05 - GOLD CLIP, GOLD SHELL  
42 - GOLD CLIP, 100% TIN SHELL

DIMENSION	CACULATION
DIM 'A'	TOTAL No. OF CONTACTS + 10
DIM 'B'	TOTAL No. OF CONTACTS + 5
DIM 'C'	TOTAL No. OF CONTACTS - 2
EXAMPLE: CONNECTOR WITH 20 CONTACTS, GOLD CLIP AND 100% TIN SHELL, M80-4E12042F2	
DIM 'A' = 30.00mm, DIM 'B' = 25.00mm DIM 'C' = 18.00mm	

**NOTES:**

- CONNECTOR IS SUPPLIED WITH CONTACTS LOOSE.
- FOR EXTRA CONTACTS, USE PART No.'s. M80-0190001 FOR M80-4E1XX42F2  
M80-0190005 FOR M80-4E1XX05F2.
- RECOMMENDED WIRE TYPE = PTFE INSULATED 28-32 AWG BS 3G 210 TYPE A OR MIL-W-16878 TYPE ET WIRE.  
MAX INSULATION DIAMETER =  $\varnothing$ 0.75mm, 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.

MGP	1	12.04.12	11704
NAME	ISS.	DATE	C/NOTE
APPROVED: MGP			
CHECKED: SB			
DRAWN: M. G. PLESTED			
CUSTOMER REF.:			
ASSEMBLY DRG:			

**HARWIN**

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technical@harwin.com

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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

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

TITLE: DATAMATE J-TEK FEMALE  
CRIMP ASSY (EXTRA SMALL BORE)  
WITH HEX SOCKET JACKSCREW

DRAWING NUMBER:

**M80-4E1XXXXF2**

SHT  
2 OF 2

# Mouser Electronics

Authorized Distributor

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Harwin:

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