

# Customer Information Sheet

DRAWING No.: M80-4E1XXXXF2

SHEET 2 OF 2

IF IN DOUBT - ASK



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 = 0.3µ GOLD CLIP, 0.25 - 0.30µ GOLD SHELL  
 42 = 0.3µ GOLD CLIP, 3.5 - 5.0µ 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 = 25mΩ MAX  
 INSULATION RESISTANCE = 100MΩ MIN

**MECHANICAL:**

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

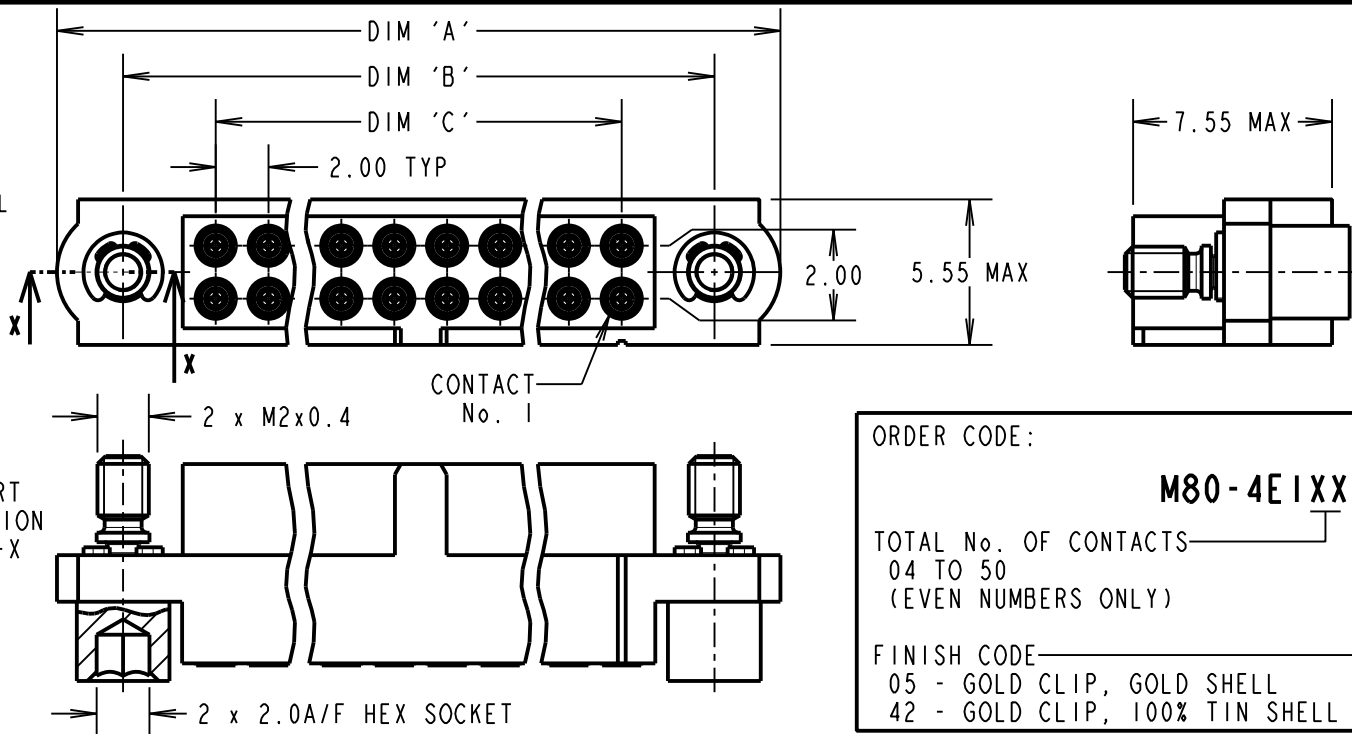
**ENVIRONMENTAL:**

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	CALCULATION
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 = Ø0.75mm, 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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**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:** DATAMATE J-TEK FEMALE CRIMP ASSY (EXTRA SMALL BORE) WITH HEX SOCKET JACKSCREW  
**DRAWING NUMBER:** M80-4E1XXXXF2  
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