

Customer Information Sheet

DRAWING No.: M80-4C1XXXXFC

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

101-SCREW, COLLAR = STAINLESS STEEL

SPRING = MUSIC WIRE

FINISH:

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

42 = 0.3µm GOLD CLIP, 3.5-5.0µm 100% TIN OVER NICKEL SHELL

05 & 42 = TIN COATED SPRINGS

ELECTRICAL:

CURRENT RATING AT 25°C = 3.3A MAX

CURRENT RATING AT 85°C = 2.6A MAX

WORKING VOLTAGE = 800V AC/DC

VOLTAGE PROOF = 1200V AC/DC

CONTACT RESISTANCE = 25mΩ MAX

INSULATION RESISTANCE = 100MΩ MIN

MECHANICAL:

INSERTION FORCE (Ø0.5mm GAUGE) = 2.0N MAX

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

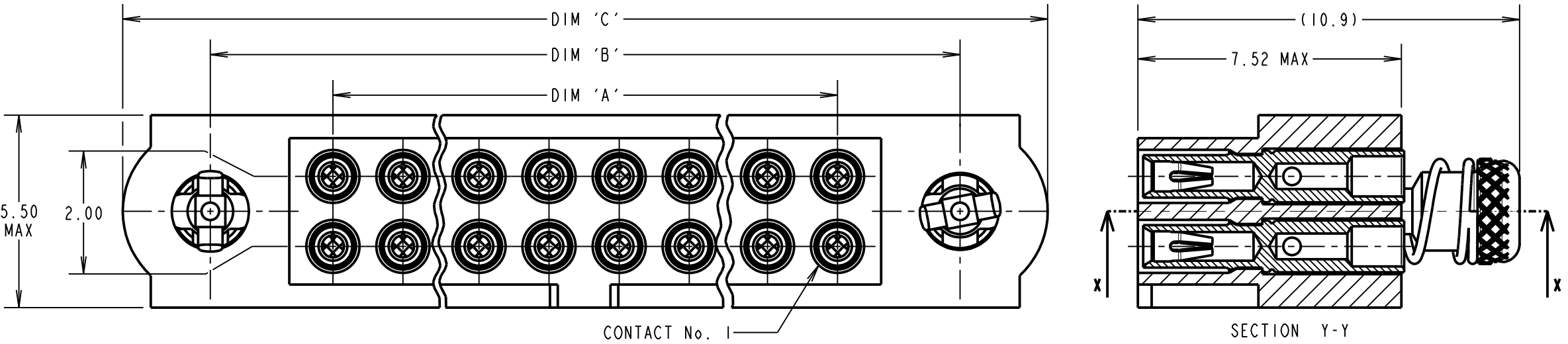
ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

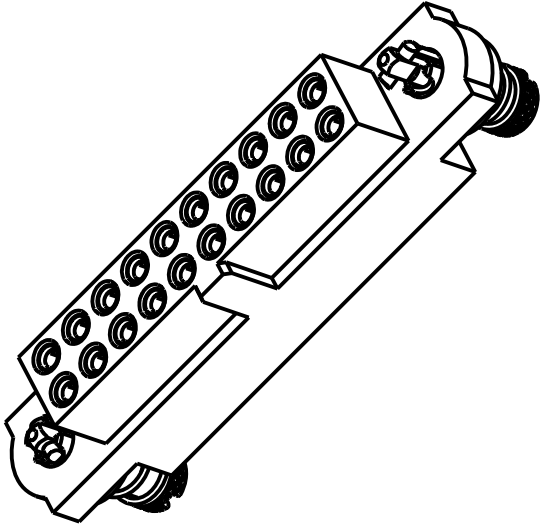
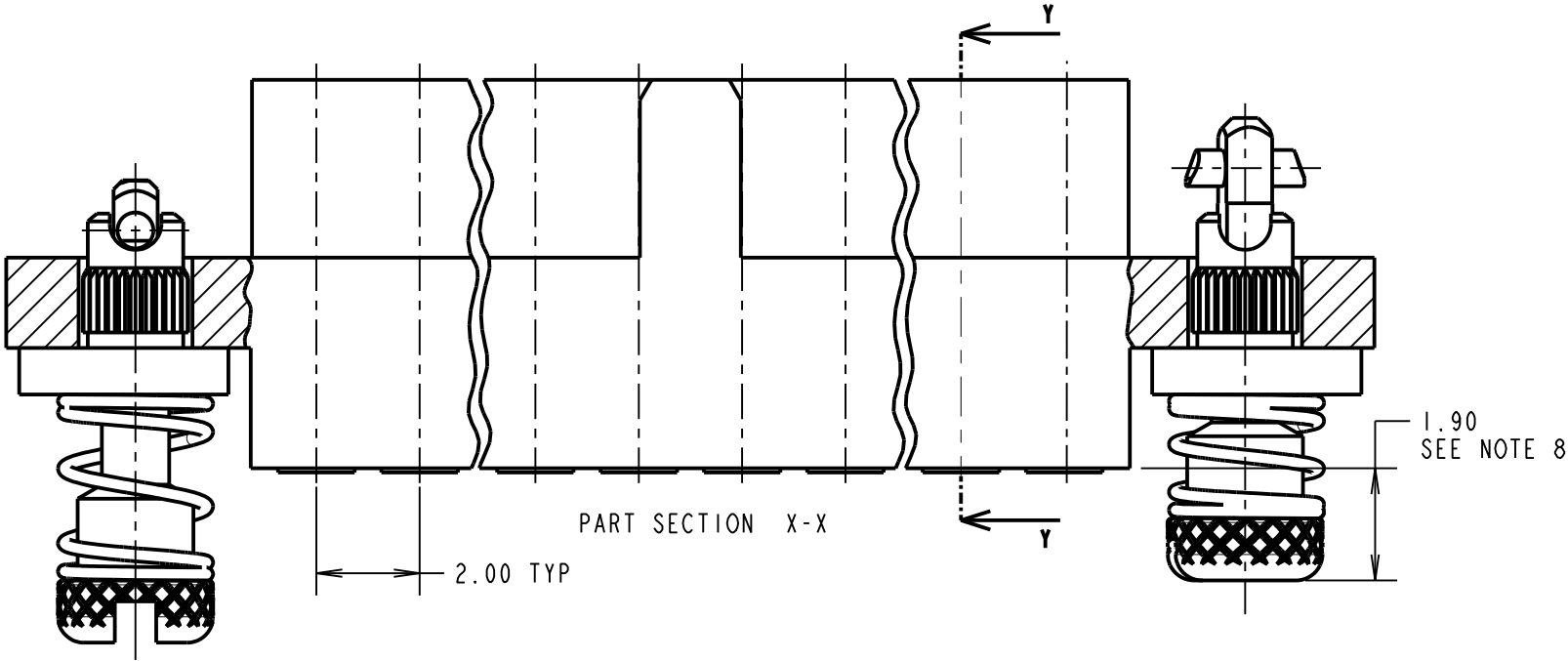
PACKING:

LOOSE

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



- NOTES:
- CONNECTOR IS SUPPLIED WITH CONTACTS LOOSE.
  - FOR EXTRA CONTACTS, USE PART No's.  
M80-0130001 FOR M80-4C1XX42FC  
M80-0130005 FOR M80-4C1XX05FC
  - 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 & EXTRACTION TOOL = Z80-280
  - INSTRUCTION SHEETS ARE AVAILABLE.
  - SPRING LOAD WHEN SOLID = 2.642N.  
SPRING RATE = 1.32N/mm.
  - LENGTH WILL BE 1.90mm WHEN 101-SCREWS ARE ENGAGED WITH RETAINERS IN MATING CONNECTOR.



| DIMENSION                                                                             | CALCULATION                |
|---------------------------------------------------------------------------------------|----------------------------|
| DIM 'A'                                                                               | TOTAL No. OF CONTACTS - 2  |
| DIM 'B'                                                                               | TOTAL No. OF CONTACTS + 5  |
| DIM 'C'                                                                               | TOTAL NUMBER CONTACTS + 10 |
| EXAMPLE ORDER CODE 2: CONNECTOR WITH 20 SIGNAL CONTACTS, GOLD CLIP AND 100% TIN SHELL |                            |
| M80-4C12042FC                                                                         |                            |
| DIM 'A' = 18.00mm, DIM 'B' = 25.00mm, DIM 'C' = 30.00mm.                              |                            |

CONTACT: (QTY = TOTAL No. OF CONTACTS)  
M80-01300XX (SEE NOTE 2)

05 = GOLD CLIP, GOLD SHELL  
01 = GOLD CLIP, 100% TIN OVER NICKEL SHELL

ORDER CODE: **M80-4C1XXXXFC**

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

FINISH CODE  
05 - GOLD CLIP, GOLD SHELL  
42 - GOLD CLIP, 100% TIN, OVER NICKEL SHELL

|                      |      |          |        |
|----------------------|------|----------|--------|
| RTP                  | 4    | 16.05.19 | 21531  |
| NAME                 | ISS. | DATE     | C/NOTE |
| APPROVED: R.PORTLOCK |      |          |        |
| CHECKED: M.RUDKIN    |      |          |        |
| DRAWN: S.FLOWER      |      |          |        |
| CUSTOMER REF.:       |      |          |        |
| ASSEMBLY DRG:        |      |          |        |

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TOLERANCES  
X. = ±1mm  
X.X = ±0.50mm  
X.XX = ±0.20mm  
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 (SMALL BORE) WITH 101LOK JACKSCREWS

DRAWING NUMBER: **M80-4C1XXXXFC**

SHT 2 OF 2