

Customer Information Sheet

DRAWING No.: M80-4C1XXXXFC, M80-4C1XXXXFC-00-000-00-000 SHT 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
 101-SCREW, COLLAR = STAINLESS STEEL
 SPRING = MUSIC WIRE

FINISH:
 05 = 0.3µ GOLD CLIP, 0.25-0.3µ GOLD SHELL
 42 = 0.3µ GOLD CLIP, 3.5-5.0µ 100% TIN OVER NICKEL SHELL
 05 & 42 = TIN COATED SPRINGS

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

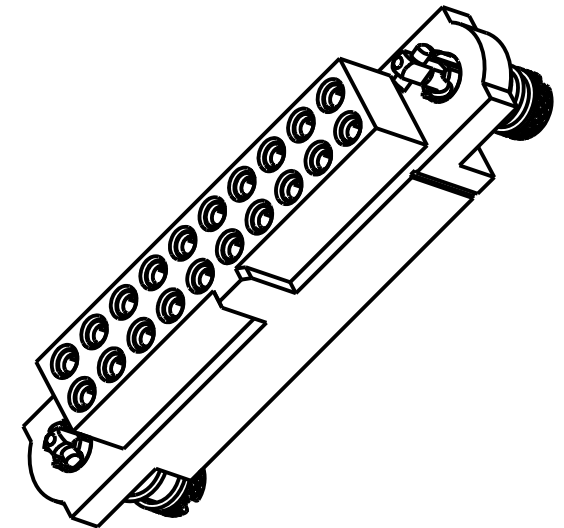
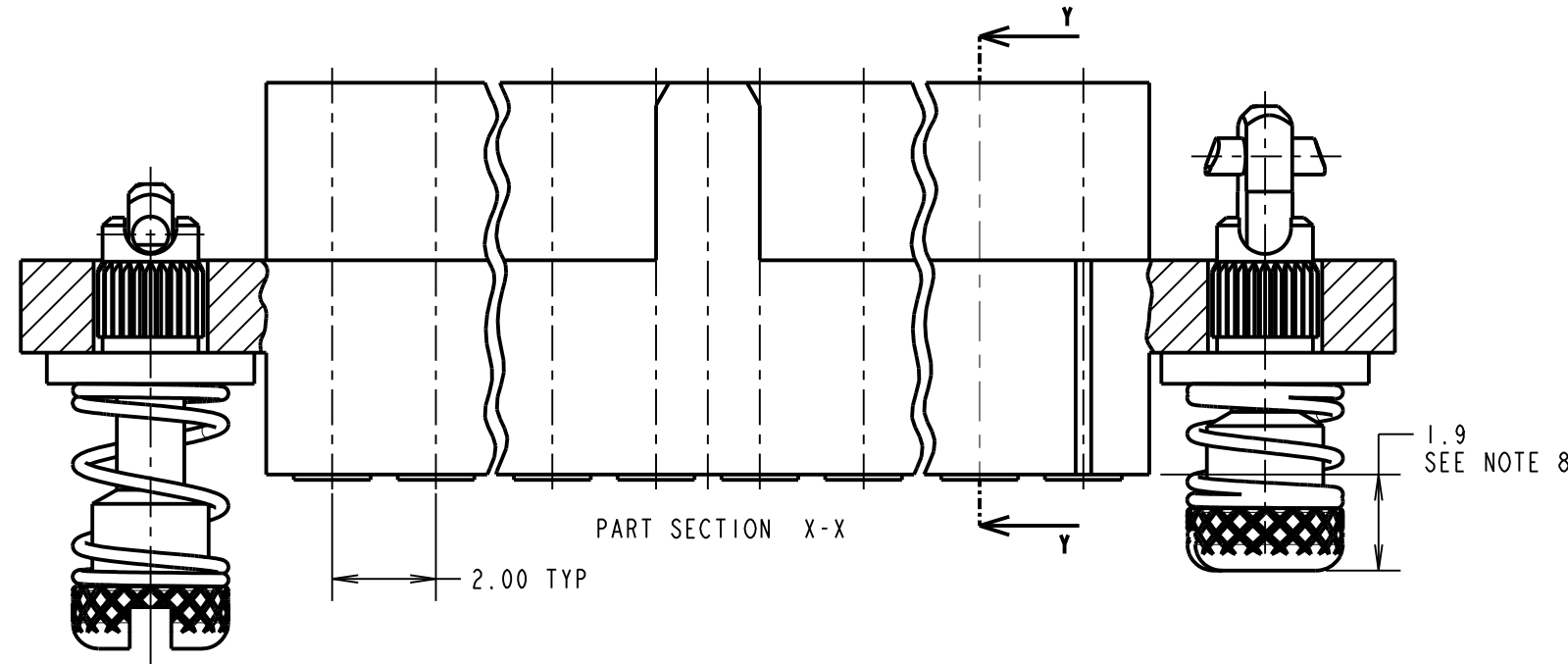
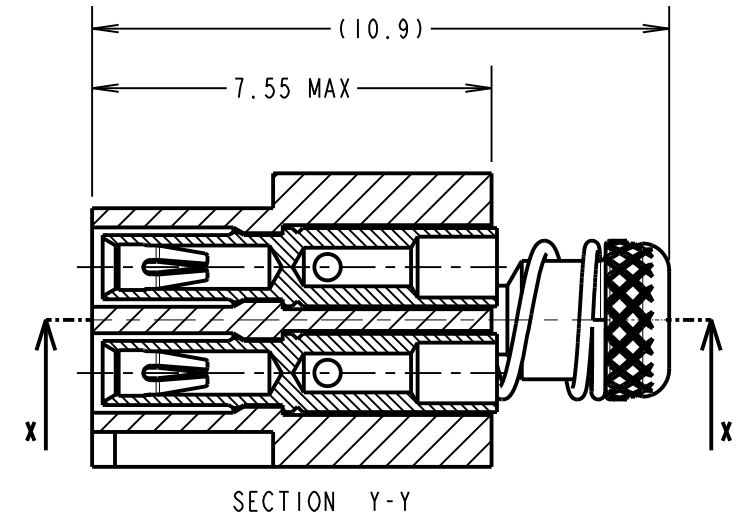
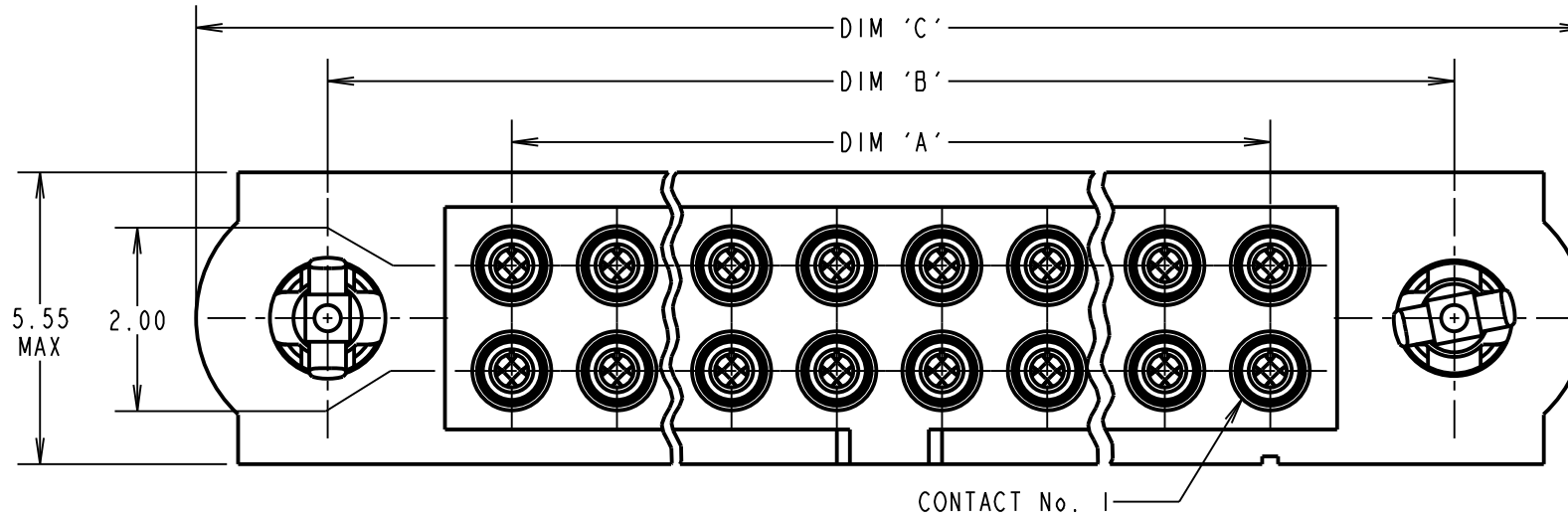
MECHANICAL:
 INSERTION FORCE (∅0.5mm GAUGE) = 2.8N MAX
 WITHDRAWAL FORCE (∅0.5mm GAUGE) = 0.2N MIN

ENVIRONMENTAL:
 TEMPERATURE RANGE = -55°C TO +121°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-00-000-00-000
 M80-0130005 FOR M80-4C1XX05FC-00-000-00-000
- RECOMMENDED WIRE TYPE = BS 3G 210 TYPE A, PTFE INSULATED 24-28 AWG. MAX INSULATION DIAMETER = ∅1.10mm, 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 1.9mm WHEN 101-SCREWS ARE ENGAGED WITH RETAINERS IN MATING CONNECTOR.
- ALL PART LABELLING TO BE AS ORDER CODE, EITHER WITH TRAILING ZEROS OR LEFT BLANK AS PER ORDER CODE EXAMPLES 1 AND 2.



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 1: CONNECTOR WITH 20 SIGNAL CONTACTS, GOLD CLIP AND 100% TIN SHELL

M80-4C12042FC-00-000-00-000

DIM 'A' = 18.00mm, DIM 'B' = 25.00mm, DIM 'C' = 30.00mm.

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-XX-XXX-XX-XXX**

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

NUMBER OF SPECIAL CONTACTS
 X's CAN BE DISPLAYED AS TRAILING ZEROS OR LEFT BLANK
 SEE EXAMPLE ORDER CODES FOR EXPLANATION.

RA	2	27.01.11	11106
NAME	ISS.	DATE	C/NOTE
APPROVED:		R. ADDE	
CHECKED:		M.G. PLESTED	
DRAWN:		S. FLOWER	
CUSTOMER REF.:			
ASSEMBLY DRG:			

HARWIN

HARWIN USA TEL: 603 893 5376 FAX: 603 893 5396 mis@harwin.com	HARWIN Europe (UK) TEL: 023 9231 4545 FAX: 023 9231 4590 mis@harwin.co.uk	HARWIN Asia TEL: +65 6 779 4909 FAX: +65 6 779 3868 mis@harwin.com.sg
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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: DATAMATE J-TEK FEMALE CRIMP ASSY (SMALL BORE) WITH 10ILOK JACKSCREWS
DRAWING NUMBER: M80-4C1XXXXFC, M80-4C1XXXXFC-00-000-00-000
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