

Customer Information Sheet

DRAWING No.: M80-F1XXXXX-XXX-XXX

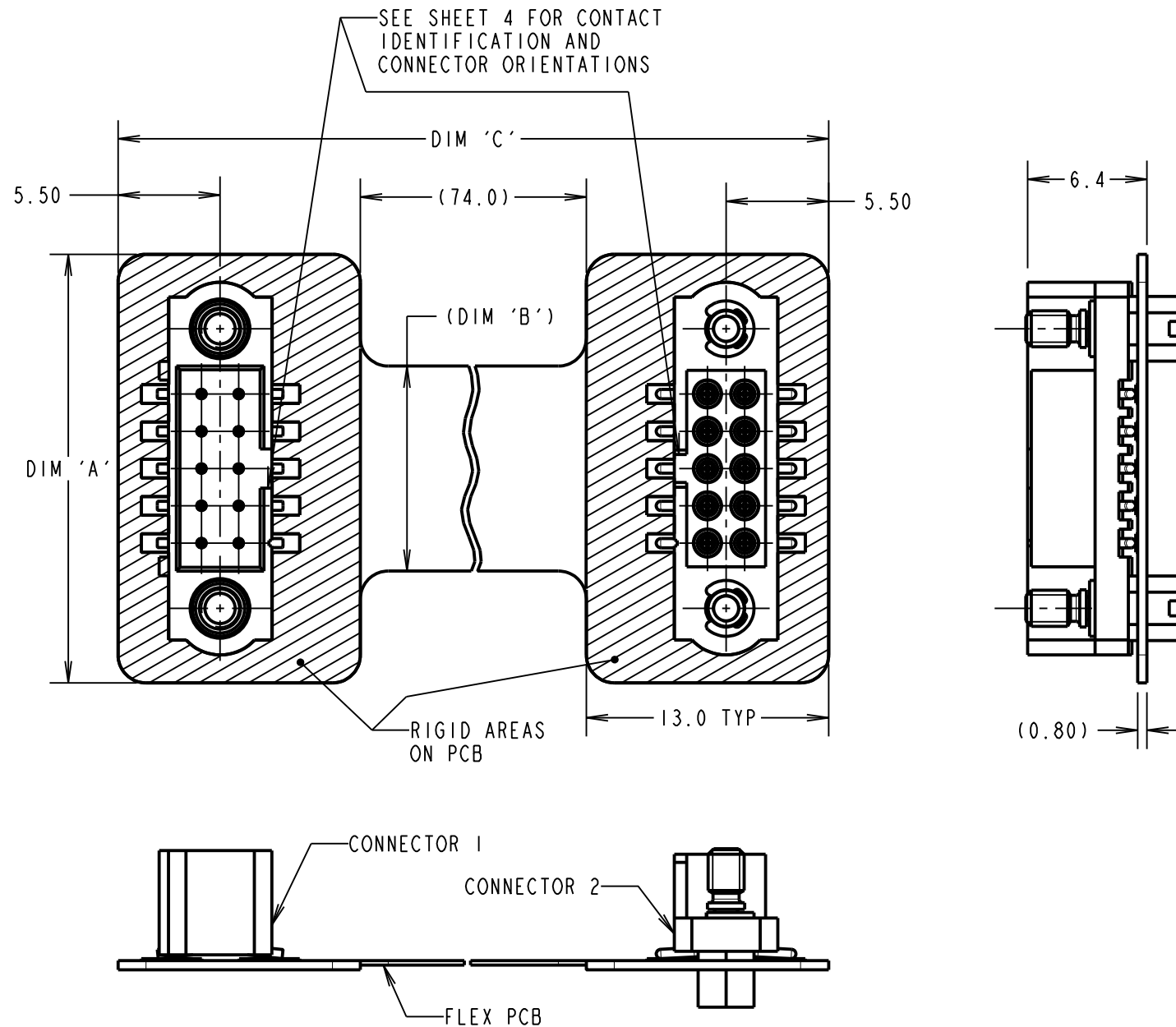
IF IN DOUBT - ASK

©

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



ORDER CODE:

M80-F1XXXXX-XXX-XXX

CONNECTOR 1 PART No.:

402 = M80-402XX42
422 = M80-422XX42
502 = M80-502XX42
512 = M80-512XX42

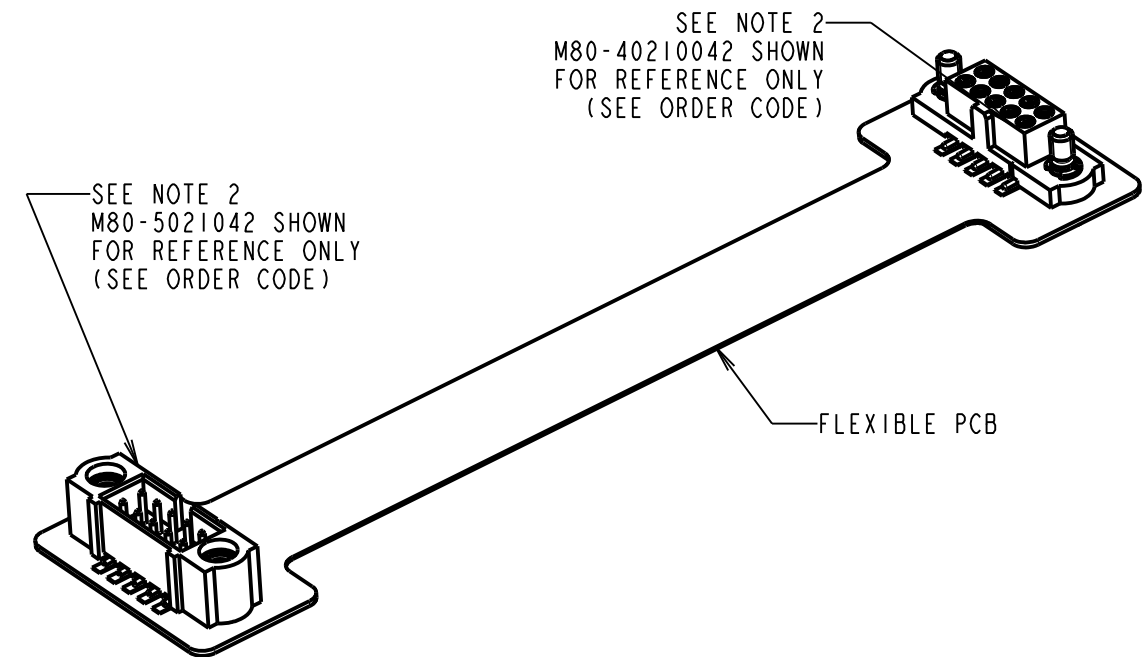
CONNECTOR 2 PART No.:

402 = M80-402XX42
422 = M80-422XX42
502 = M80-502XX42
512 = M80-512XX42

TOTAL No. OF CONTACTS:
06, 10, 12, 16, 20, 26, 34, 50.

DIM 'C' (OVERALL LENGTH):
999 = 999mm MAX.

CONNECTOR ASSEMBLIES AVAILABLE IN MALE-TO-MALE, FEMALE-TO-FEMALE, AND MALE-TO-FEMALE CONFIGURATIONS.



FLEX PCB SPECIFICATION:

-BOARD CONSTRUCTION:

SINGLE LAYER FLEXIBLE PCB
50µm BASE POLYIMIDE
35µm (1oz) COPPER CLAD TO IPC-4204/1
50µm BONDED COVERLAY TO IPC-4203/1
0.8mm HTG FR4 TO IPC-4101/126 LOCALLY RIGIDISED IN CONNECTOR AREAS

-SURFACE FINISH:

ENIG TO IPC-4552 ON EXPOSED COPPER

-IPC CLASSIFICATION:

BARE CIRCUIT - IPC-A-600/IPC-6013 CLASS 3
ASSEMBLY - IPC-A-610/J-STD-001 CLASS 3

-MECHANICAL PROPERTIES:

NOMINAL FLEX THICKNESS = 0.185mm
MINIMUM STATIC BEND RADIUS (IPC-2223) = 1.85mm
SUITABLE FOR DYNAMIC OPERATION ON BEND RADII ABOVE 3.70mm

-ELECTRICAL PROPERTIES:

MAX. CURRENT PER TRACK = 1.0A
INSULATION RESISTANCE = 1GΩ MIN
VOLTAGE PROOF (AT 1013mbar, SEA LEVEL): 1200V DC OR AC PEAK

NOTES:

- FOR COMPLETE CONNECTOR SPECIFICATION, SEE COMPONENT SPECIFICATION C005XX (LATEST ISSUE).
- CONNECTORS SHOWN FOR REFERENCE ONLY. SEE TABLE 2 ON SHEET 4 AND ORDER CODE FOR POSSIBLE CONFIGURATIONS.
- JACKSCREWS MUST BE FASTENED TO 21±2cmN (AS PER C005XX).

TABLE 1

DIMENSION	CALCULATION
DIM 'A'	TOTAL No. OF CONTACTS + 13
DIM 'B'	TOTAL No. OF CONTACTS + 1
DIM 'C'	OVERALL PCB LENGTH (SEE ORDER CODE)

EXAMPLE:
100mm FLEX PCB WITH 10 CONTACT CONNECTORS (M80-5021042, M80-4021042)

PART NUMBER = M80-F150210-100-402
DIM 'A' = 23mm, DIM 'B' = 11mm, DIM 'C' = 100mm

RTP	5	06.05.21	30532
NAME	ISS.	DATE	CN/CO
APPROVED: R.PORTLOCK			
CHECKED: M.RUDKIN			
DRAWN: R.PORTLOCK			
CUSTOMER REF.:			
ASSEMBLY DRG:			

HARWIN

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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: mm²

TITLE:
DATAMATE FLEX PCB
ASSEMBLY - DOUBLE-ENDED

DRAWING NUMBER:
M80-F1XXXXX-XXX-XXX

SHT
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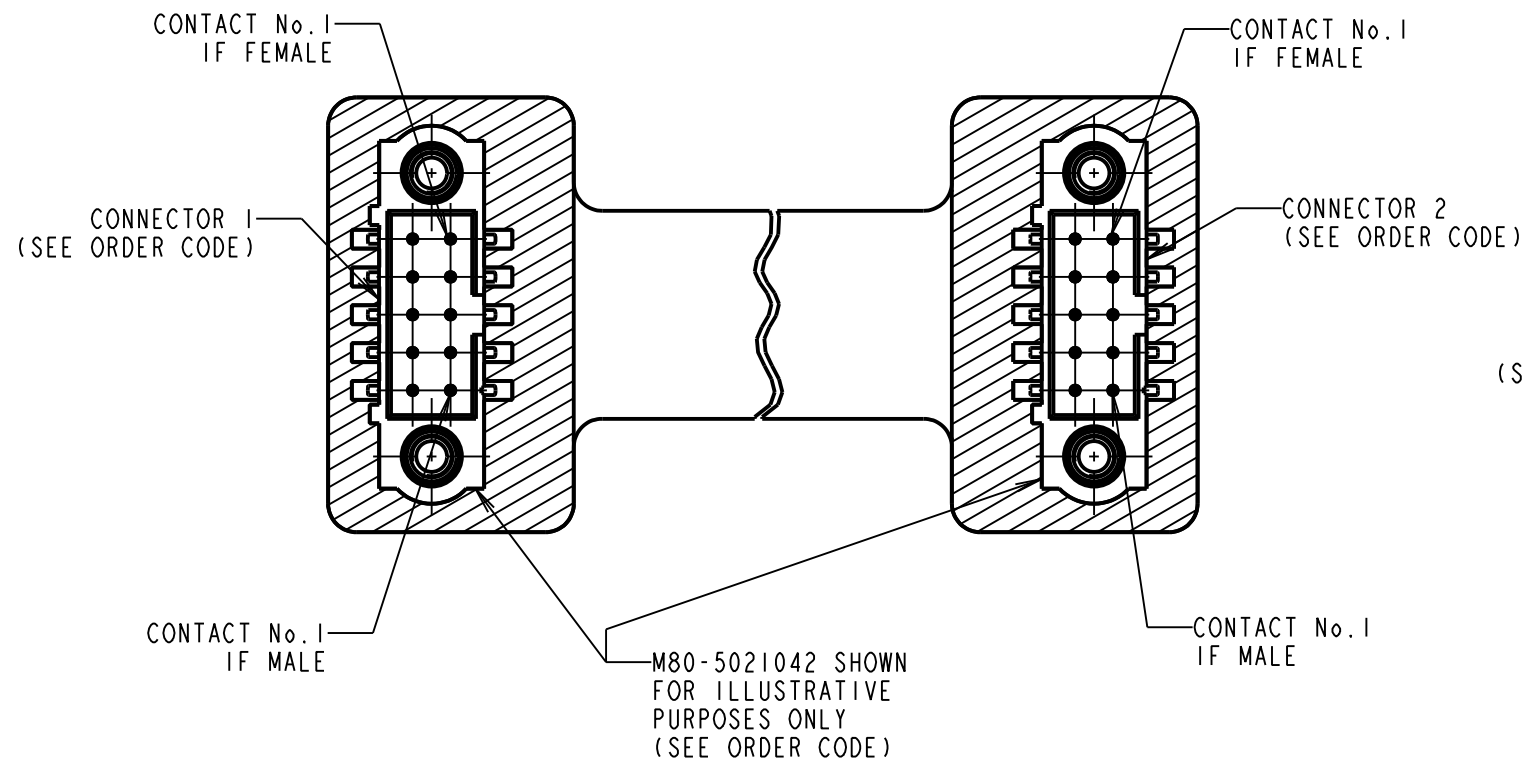
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ALL DIMENSIONS IN mm

PINOUT A



PINOUT B

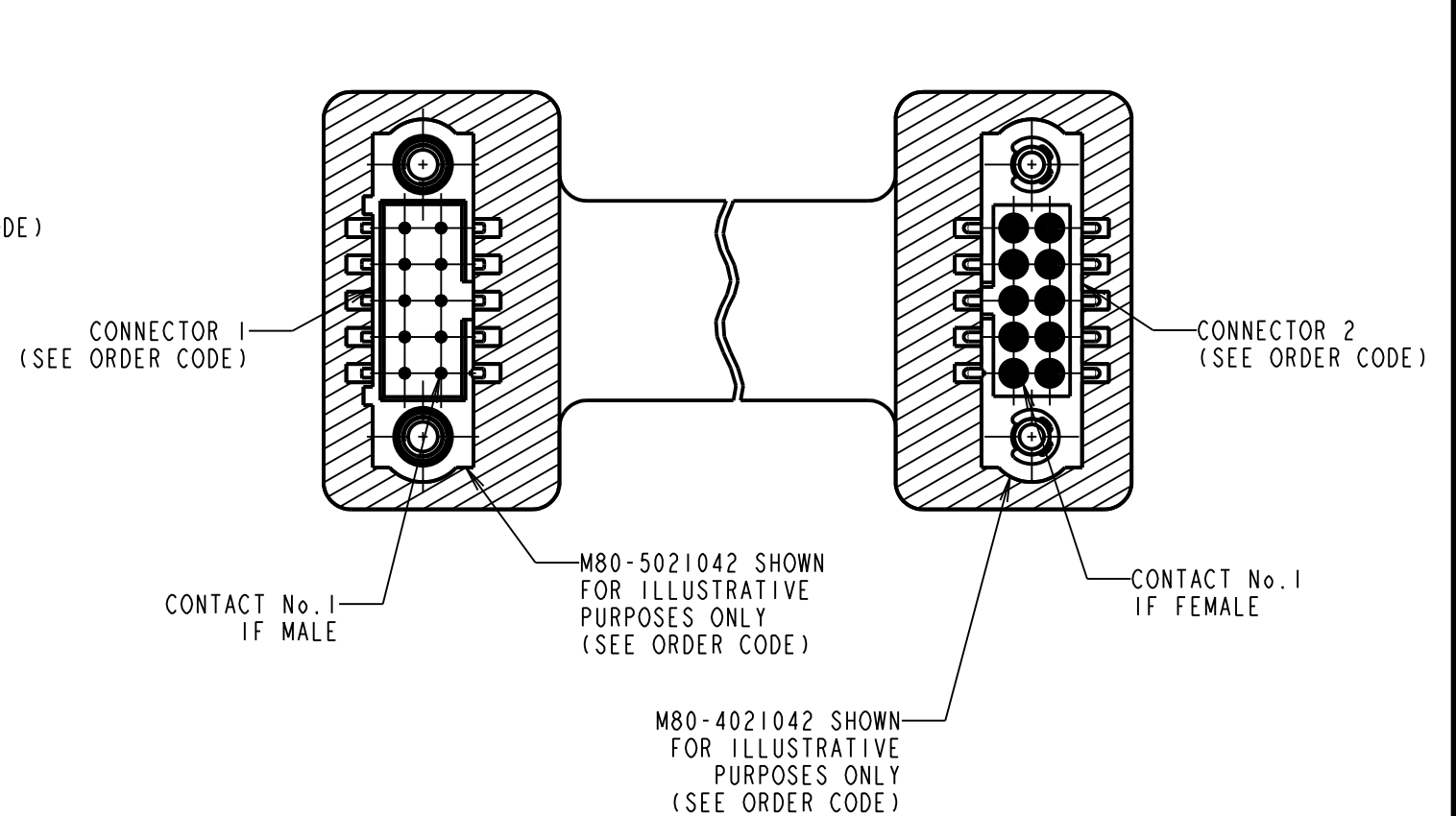


TABLE 2

CONNECTOR 1		CONNECTOR 2		PINOUT
PART No.	ORIENTATION	PART No.	ORIENTATION	
M80-402XX42	AS SHOWN	M80-402XX42	SAME AS CONNECTOR 1	PINOUT A
M80-422XX42	AS SHOWN	M80-422XX42	SAME AS CONNECTOR 1	PINOUT A
M80-502XX42	AS SHOWN	M80-502XX42	SAME AS CONNECTOR 1	PINOUT A
M80-502XX42	AS SHOWN	M80-402XX42	OPPOSITE TO CONNECTOR 1	PINOUT B
M80-512XX42	AS SHOWN	M80-512XX42	SAME AS CONNECTOR 1	PINOUT A
M80-512XX42	AS SHOWN	M80-422XX42	OPPOSITE TO CONNECTOR 1	PINOUT B

PINOUT ROUTING

PINOUT A	FOR ALL FIRST ROW CONTACTS: CONTACT X TO CONTACT ((TOTAL/2 + X) (WHERE X IS CONTACT POSITION) FOR ALL SECOND ROW CONTACTS: CONTACT Y TO CONTACT (Y - (TOTAL/2)) (WHERE Y IS CONTACT POSITION)
PINOUT B	FOR ALL CONTACTS: CONTACT Z TO CONTACT Z (WHERE Z IS CONTACT POSITION)

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X.XXX = ±0.01mm
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UNLESS STATED

MATERIAL:
SEE SHEET 3
FINISH: SEE SHEET 3
S/AREA: mm²

TITLE:
DATAMATE FLEX PCB
ASSEMBLY - DOUBLE-ENDED

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