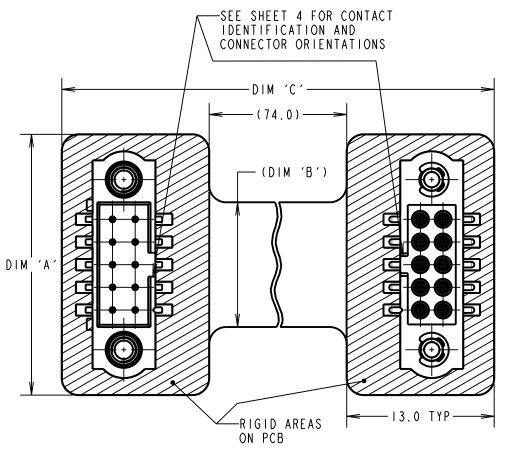
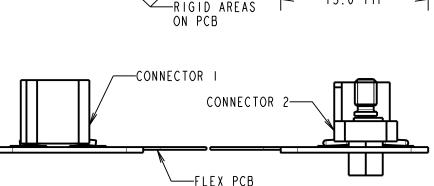
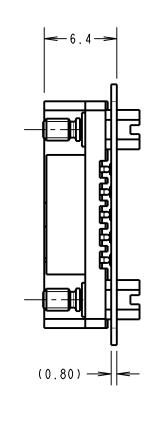
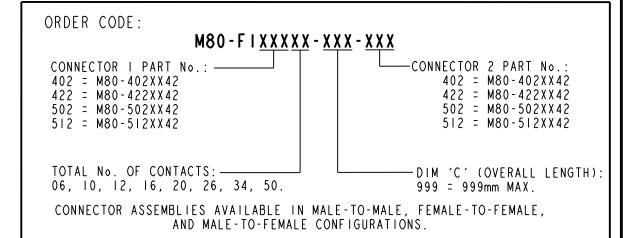
## Customer Information

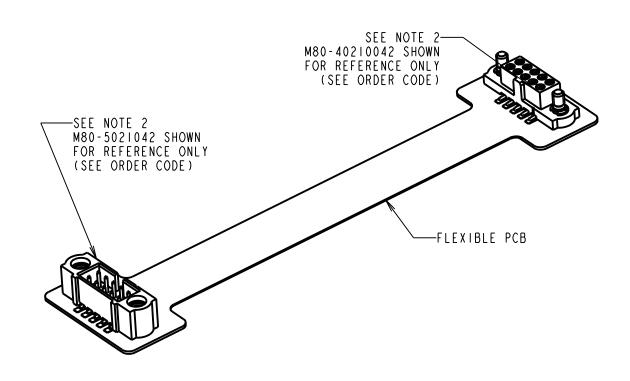
DRAWING No.: M80-FIXXXXX-XXX-XXX IF IN DOUBT - ASK NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm











## FLEX PCB SPECIFICATION:

-BOARD CONSTRUCTION:

SINGLE LAYER FLEXIBLE PCB

50µm BASE POLYIMIDE

35µm (loz) COPPER CLAD TO IPC-4204/I

50 µm 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 =  $IG\Omega$  MIN

VOLTAGE PROOF (AT 1013mbar, SEA LEVEL): 1200V DC OR AC PEAK

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

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

FXAMPLF: 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

_	-				1	
		RTP	4	06.07.20	30088	
4		NAME	ISS.	DATE	CN/CO	
_		APPROVED: R.PORTLOCK				
		CHECKED: M.RUDKIN				
		DRAWN	١:	R.PORTLOC		
		CUSTO	)MER	REF.:		
		ASSEM	IBL Y	DRG:		

<sup>3</sup> OF <sub>A</sub>



www.harwin.com technical@harwin.com THIS DRAWING AND ANY
INFORMATION OR DESCRIPTIVE
MATTER SET OUT HEREON ARE
CONFIDENTIAL AND COPYRIGHT
PROPERTY OF THE HARWIN
GROUP AND MUST NOT BE
DISCLOSED, LOANED, COPIED
OR USED FOR MANUFACTURING,
TENDERING OR FOR ANY
OTHER PURPOSE WITHOUT
THEIR WRITTEN PERMISSION.

TOLERANCES X. = ±1mm X.X = ±0.50mm

 $X.XX = \pm 0.20$ mm  $X.XXX = \pm 0.01$ mm ANGLES = ±5° UNLESS STATED

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

S/AREA:

DATAMATE FLEX PCB ASSEMBLY - DOUBLE-ENDED

DRAWING NUMBER:

M80-FIXXXXX-XXX-XXX

## Customer Information Sheet

DRAWING No.: M80-FIXXXXX-XXX-XXX IF IN DOUBT - ASK NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

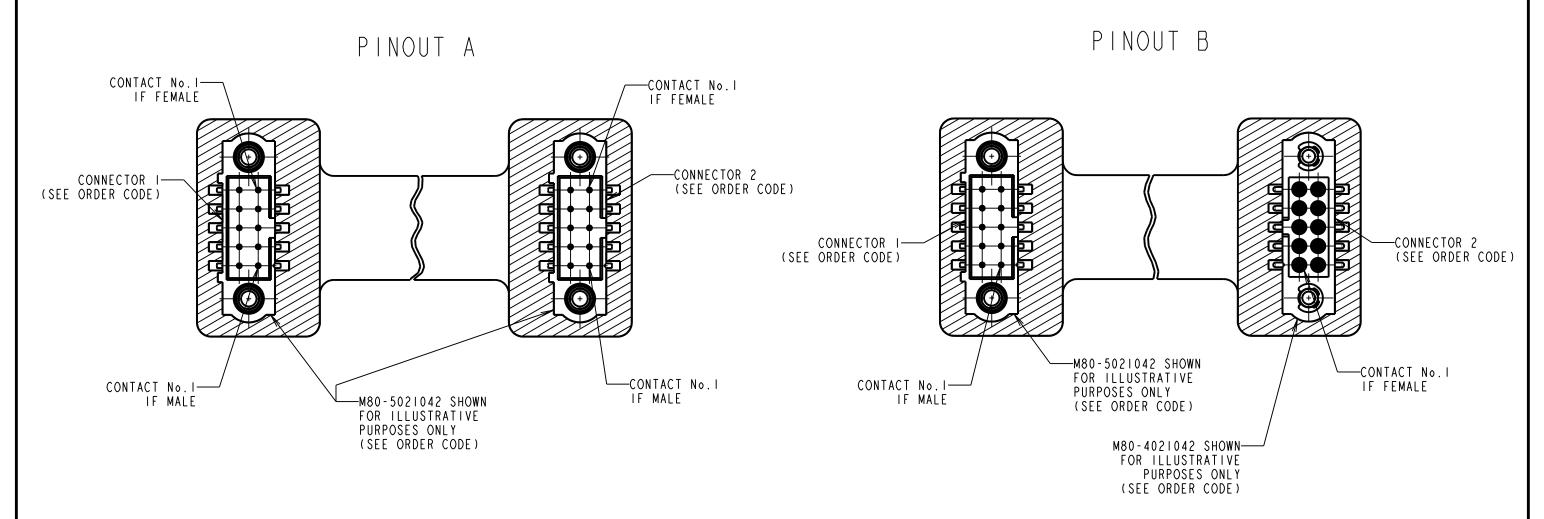
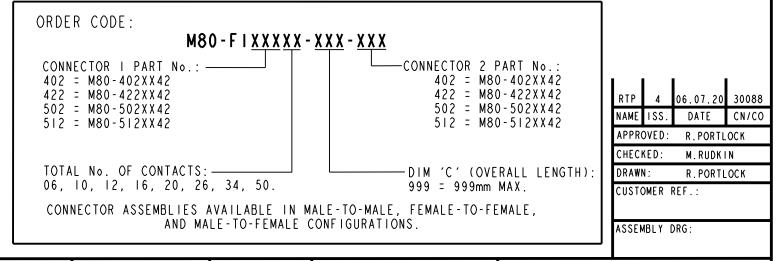


	TABLE 2						
CONNE	CONNECTOR I		CONNECTOR 2				
PART No.	ORIENTATION	PART No.	ORIENTATION	PINOUT			
M80-402XX42	AS SHOWN	M80-402XX42	SAME AS CONNECTOR I	PINOUT A			
M80-422XX42	AS SHOWN	M80-422XX42	SAME AS CONNECTOR I	PINOUT A			
M80-502XX42	AS SHOWN	M80-502XX42	SAME AS CONNECTOR I	PINOUT A			
M80-502XX42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





www.harwin.com technical@harwin.com THIS DRAWING AND ANY
INFORMATION OR DESCRIPTIVE
MATTER SET OUT HEREON ARE
CONFIDENTIAL AND COPYRIGHT
PROPERTY OF THE HARWIN
GROUP AND MUST NOT BE
DISCLOSED, LOANED, COPIED
OR USED FOR MANUFACTURING,
TENDERING OR FOR ANY
OTHER PURPOSE WITHOUT
THEIR WRITTEN PERMISSION.

TOLERANCES X. = ±1mm X.X = ±0.50mm  $X.XX = \pm 0.20$ mm  $X.XXX = \pm 0.01$ mm ANGLES = ±5°

UNLESS STATED

MATERIAL:

SEE SHEET 3 FINISH: SEE SHEET 3

DATAMATE FLEX PCB ASSEMBLY - DOUBLE-ENDED

DRAWING NUMBER:

M80-FIXXXXX-XXX-XXX

<sup>4</sup> OF <sub>4</sub>

S/AREA: