DRAWING No.: M80-5000000MA-XX-XXX-00-000 THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIAL: MOULDING: GLASS FILLED PPS. UL94V-O. BLACK COAX CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY

LATCHING COLLAR = BERYLLIUM COPPER

INSULATOR = PTFE

BOARD MOUNT JACKSCREW. NUT = STAINLESS STEEL

FINISH:

COAX CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD

LATCHING COLLAR = NICKEL

ELECTRICAL:

WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC

INSULATION RESISTANCE = $100M\Omega$ MIN

COAX CONTACT:

FREQUENCY RANGE = 6GHz

IMPEDANCE = 50Ω

 $V.S.W.R = 1.05 + (0.04 \times FREQUENCY)$ GHz MAX

CONTACT RESISTANCE = $6m\Omega$ MAX

INSULATION RESISTANCE = $10^{6} \text{M}\Omega$ @250V AC

OPERATING VOLTAGE = 180V AC @ 500mA

MAXIMUM VOLTAGE = 1000V AC

MECHANICAL:

DURABILITY = 500 OPERATIONS COAX CONTACT:

INSERTION FORCE = 8N MAX

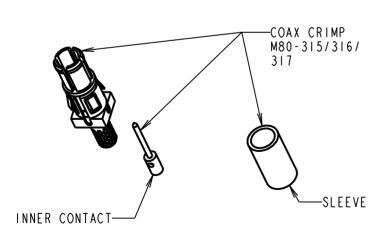
WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

PACKING: BAG

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COOSXX (LATEST ISSUE)

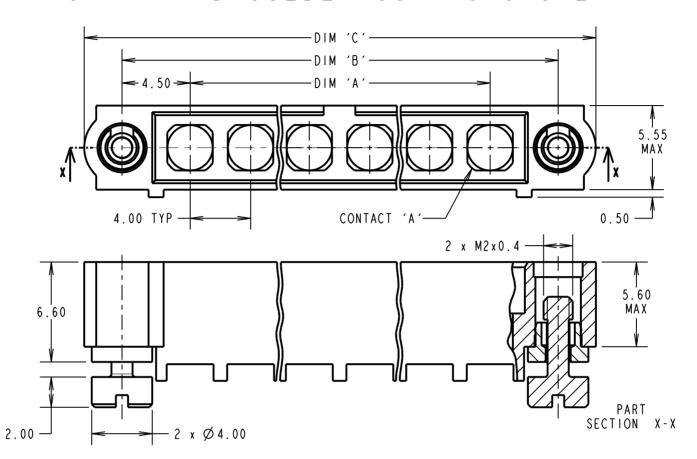


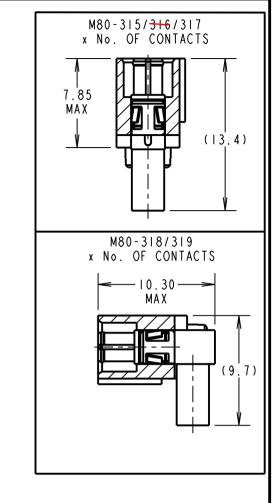
DIMENSION	CALCULATION		
DIM 'A'	4 x No. OF CONTACTS - 4.00		
DIM 'B'	4 x No. OF CONTACTS + 5.00		
DIM 'C'	4 x No. OF CONTACTS + 10.00		

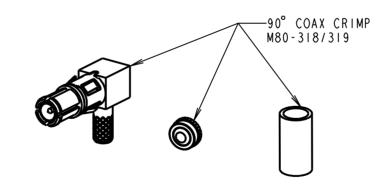
EXAMPLE 1: CONNECTOR WITH 08 COAX CONTACTS, M80-5000000MA-08-315-00-000

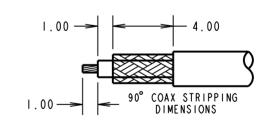
DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm

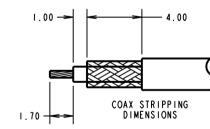
CRIMP AND SOLDER CONTACTS ONLY





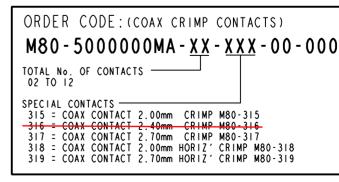






CRIMP/SOLDER NOTES:

- I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE
- 2. COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, MAIN INSULATOR, INNER CONTACT AND LATCHING COLLAR ARE PRE-ASSEMBLED AND SLEEVE AND INSULATED END PLUG ASSEMBLY ARE SEPARATE.
- 3. FOR EXTRA COAX CONTACTS. USE PART NUMBERS M80-315/3+6/317/318/319.
- 4. COAX CONTACT EXTRACTION TOOL = Z80-290.
- 5. RECOMMENDED HAND CRIMP TOOL FOR INNER COAX CONTACT = Z80-292 WITH POSITIONER Z80-291. RECOMMENDED HAND CRIMP TOOL AND DIE SET FOR SLEEVE = Z80-293.
- 6. INSTRUCTION SHEETS ARE AVAILABLE.



	MSP	3	03.03.15	12566	
	NAME	188.	DATE	C/NOTE	
١	APPROVED: M.PERREN				
١	CHEC	KED:	M.PLESTED		
١	DRAW	١:	R.ADDE		
	CUSTO	OMER I	REF.:		
	ASSEN	MBLY (ORG:		



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 MANUPACTURING,
TENDERING OR FOR ANY
OTHER PURPOSE WITHOUT
THEIR WRITTEN PERMISSION

X. = ±1mm X.X = ±0.50mn X.XX = ±0.10mm $.XXX = \pm 0.01mn$ ANGLES = ±5° UNLESS STATED THEIR WRITTEN PERMISSION

TOLERANCES

MATERIAL: SEE ABOVE FINISH:

S/AREA:

DATAMATE MIX-TEK MALE ASSY WITH REVERSE FIX SLOTTED JACKSCREW

SEE ABOVE

mm²

DRAWING NUMBER: M80-500000MA-XX-XXX-00-000

DRAWING No.: M80-5000000MA-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIAL: MOULDING: GLASS FILLED PPS, UL94V-0, BLACK POWER CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY

LATCHING COLLAR = BERYLLIUM COPPER

INSULATOR = PTFE

BOARD MOUNT JACKSCREW, NUT = STAINLESS STEEL

FINISH:

POWER CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD

LATCHING COLLAR = NICKEL

ELECTRICAL: WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC

INSULATION RESISTANCE = $100M\Omega$ MIN

POWER CONTACT:

CONTACT RESISTANCE = $6m\Omega$ MAX

CURRENT RATING = M80-335 = 20A MAX WITH 12AWG M80-336 = 15A MAX WITH 14AWG

M80-337 = IOA MAX WITH I6AWGM80-338 = 8A MAX WITH 18AWG M80-339 = 5A MAX WITH 20AWG M80-PM5 = 40A MAX WITH IOAWG

CONTACT AS SPECIFIED

MECHANICAL:

DURABILITY = 500 OPERATIONS

POWER CONTACT: INSERTION FORCE:

M80-335/336/337/338/339 = 8N MAX

M80-PM5 = I5N MAX

WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

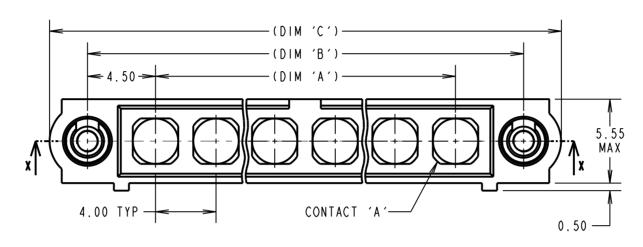
TEMPERATURE RANGE: M80-335/336/337/338/339 = -55°C TO +125°C

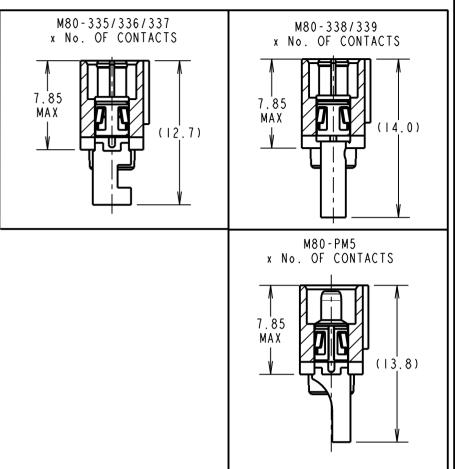
 $M80-PM5 = -55^{\circ}C TO + 150^{\circ}C$

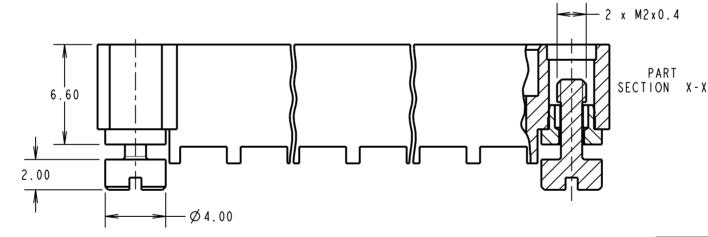
PACKING:

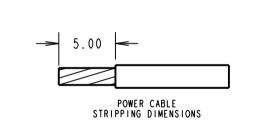
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COOSXX (LATEST ISSUE)

CRIMP AND SOLDER CONTACTS ONLY











- I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
- 2. FOR EXTRA POWER CONTACTS USE PART NUMBERS M80-335/336/337/338/339/PM5.
- 3. POWER CONTACT EXTRACTION TOOL = Z80-290.
- 4. RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 338/339 = Z80-294 AND POSITIONER Z80-295
- 5. INSTRUCTION SHEETS ARE AVAILABLE.

ORDER CODE: (POWER CRIMP/SOLDER CONTACT M80-5000000MA-XX-XXX-00-00 TOTAL No. OF CONTACTS -SPECIAL CONTACTS 335 = POWER CONTACT 12AWG SOLDER M80-335 336 = POWER CONTACT 14AWG SOLDER M80-336 337 = POWER CONTACT 16AWG SOLDER M80-337 338 = POWER CONTACT 18AWG SOLDER/CRIMP M80-338 339 = POWER CONTACT 20AWG SOLDER/CRIMP M80-339 PM5 = POWER CONTACT IDAWG SOLDER M80-PM5

	h 1	1 1	ı	1	
S)	MSP	3	03.03.1	5 12566	
0	NAME	188.	DATE	C/NOTI	
	APPROVED: M.PERREN				
	CHECI	KED:	M.PLESTED		
	DRAW	١:	R.ADDE		
	CUSTOMER REF.:				
	ASSEM	MBLY (ORG:		

DIMENSION	CALCULATION		
DIM 'A'	4 x No. OF CONTACTS - 4.00		
DIM 'B'	4 x No. OF CONTACTS + 5.00		
DIM 'C'	4 x No. OF CONTACTS + 10.00		

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-500000MA-10-335-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm



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. UNLESS STATED THEIR WRITTEN PERMISSION

TOLERANCES X. = ±1mm X.X = ±0.50mm X.XX = ±0.10mm $.XXX = \pm 0.01mn$ ANGLES = ±5°

MATERIAL: SEE ABOVE

FINISH:

S/AREA:

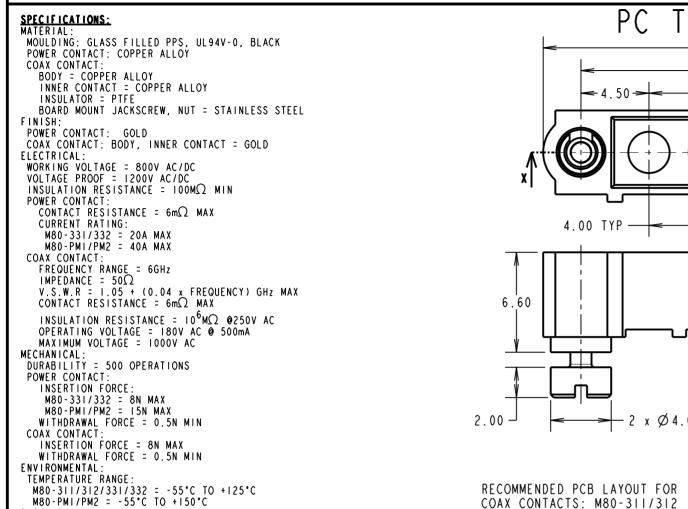
DATAMATE MIX-TEK MALE ASSY WITH REVERSE FIX SLOTTED JACKSCREW

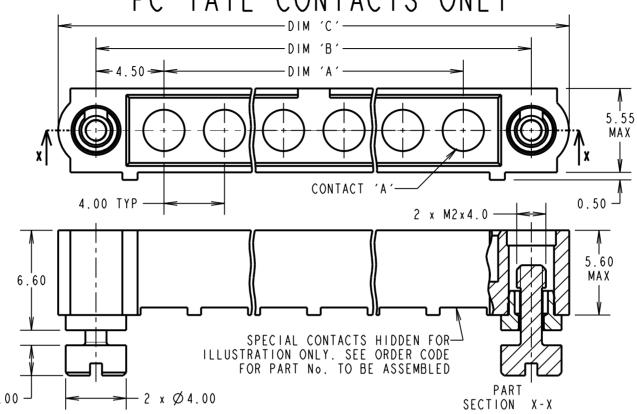
DRAWING NUMBER: SEE ABOVE

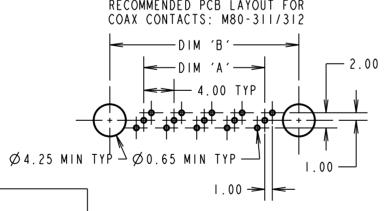
mm²

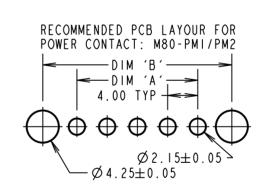
M80-5000000MA-XX-XXX-00-000

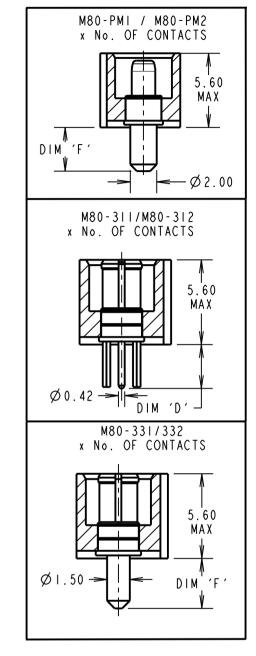
DRAWING No.: M80-5000000MA-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

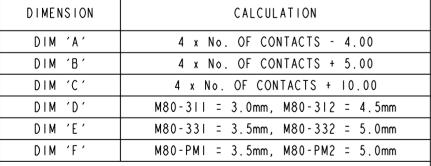












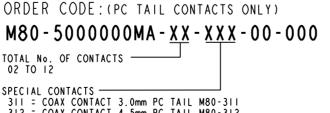
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS. M80-500000MA-08-311-00-000

DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm DIM 'D' = 3.0mm

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-5000000MA-I0-PMI-00-000

DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mmDIM 'F' = 3.5mm



SPECIAL CONTACTS

31I = COAX CONTACT 3.0mm PC TAIL M80-3II

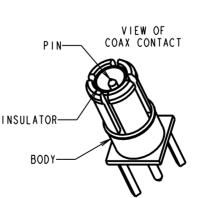
312 = COAX CONTACT 4.5mm PC TAIL M80-3I2

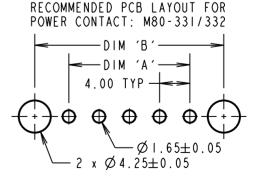
331 = 20A POWER CONTACT 3.5mm VERT' PC TAIL M80-33I

332 = 20A POWER CONTACT 5.0mm VERT' PC TAIL M80-332

PMI = 40A POWER CONTACT 3.5mm VERT' PC TAIL M80-PMI

PM2 = 40A POWER CONTACT 5.0mm VERT' PC TAIL M80-PM2





1 1		1 1	l	
MSP	3	03.03.15	12566	
NAME	188.	DATE	C/NOTE	
APPRO	OVED:	M.PERREN		
CHEC	KED:	M.PLESTED		
DRAWN:		R.ADDE		
CUSTO	OMER I	REF.:		

www.harwin.com technical@harwin.com

THIS DRAWING AND ANY 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.

THEIR WRITTEN PERMISSION

TOLERANCES X. = ±1mm X.X = ±0.50mn X.XX = ±0.10mm .XXX = ±0.01mn ANGLES = ±5°

UNLESS STATED

MATERIAL: FINISH: SEE ABOVE

S/AREA:

SEE ABOVE

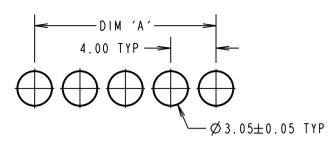
DATAMATE MIX-TEK MALE ASSY WITH REVERSE FIX SLOTTED JACKSCREW

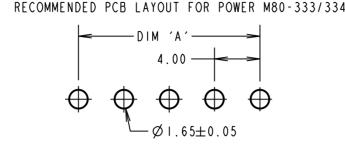
ASSEMBLY DRG:

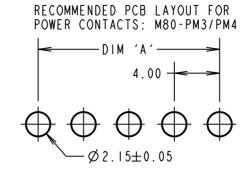
DRAWING NUMBER: M80-500000MA-XX-XXX-00-000

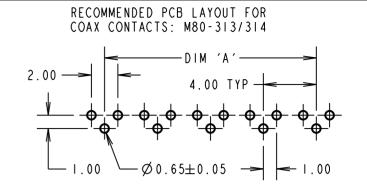
THIRD ANGLE PROJECTION DRAWING No.: M80-5000000MA-XX-XXX-00-000 ALL DIMENSIONS IN mm

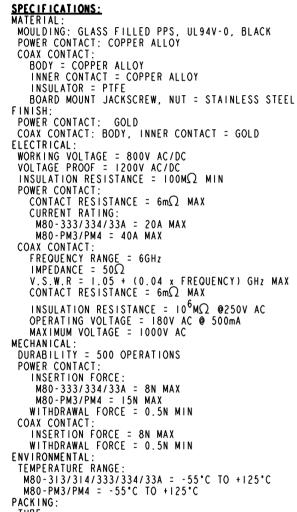






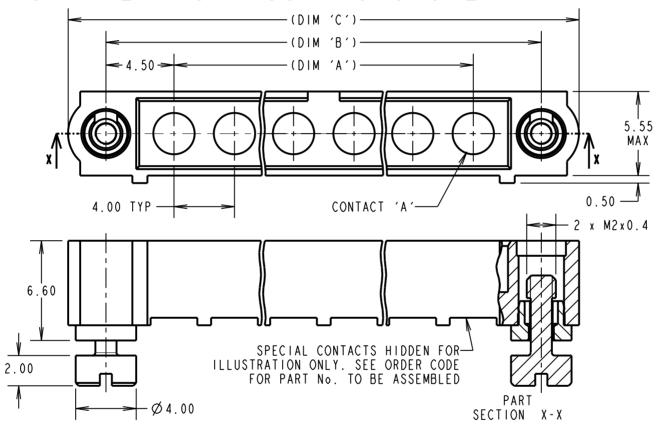


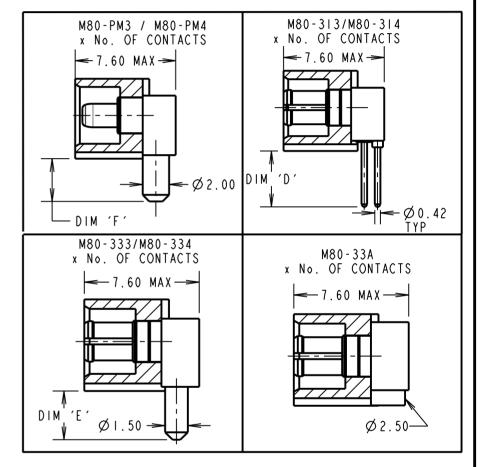


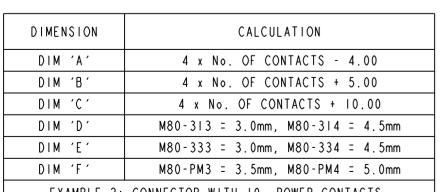


FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COOSXX (LATEST ISSUE)

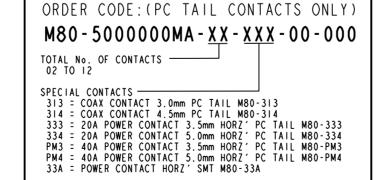
PC TAIL + SMT CONTACTS ONLY

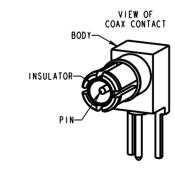






EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-5000000MA-10-333-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm DIM 'E' = 3.0mm





S/AREA:

1 1		1 1	l	
MSP	3	03.03.15	12566	
NAME	188.	DATE	C/NOTE	
APPRO	OVED:	M.PERREN		
CHEC	KED:	M.PLESTED		
DRAWN:		R.ADDE		
CUSTOMER REF.:				
ASSEN	MRIY ()RG·		

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.

X. = ±1mm X.X = ±0.50mm X.XX = ±0.10mm $.XXX = \pm 0.01mn$ ANGLES = ±5° UNLESS STATED

TOLERANCES

MATERIAL: SEE ABOVE FINISH:

DATAMATE MIX-TEK MALE ASSY WITH REVERSE FIX SLOTTED JACKSCREW

DRAWING NUMBER: SEE ABOVE

M80-500000MA-XX-XXX-00-000