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

SPECIFICATIONS:

MATERIAL:

MOULDING: GLASS FILLED PPS, UL94V-0, 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 x 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

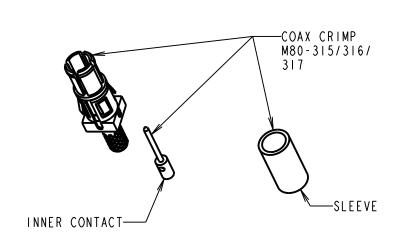
FNVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

PACKING:

BAG

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

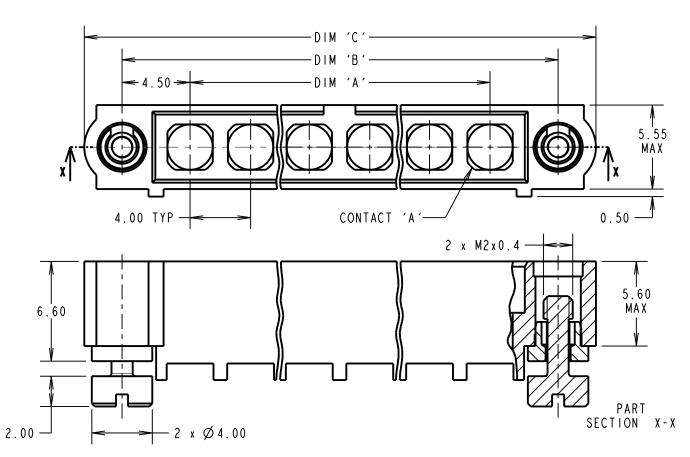


DIMENSION	CALCULATION		
DIM 'A'	4 x No. OF CONTACTS - 4.00		
DIM 'B'	4 x No. OF CONTACTS + 5.00		
DIM 'C'	4 x No. OF CONTACTS + 10.0		

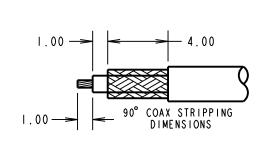
DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mm

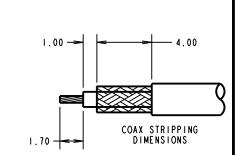
EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS. M80-500000MA-08-315-00-000

CRIMP AND SOLDER CONTACTS ONLY



-90° COAX CRIMP





NAME ISS.

APPROVED:

CHECKED:

CUSTOMER REF.:

ASSEMBLY DRG:

DRAWN:

DATE

R.ADDE

MGP

SB

C/NOTE

M80-315/316/317 x No. OF CONTACTS

M80-318/319

x No. OF CONTACTS

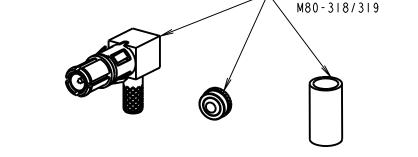
— IO.30-MAX

(13.4)

(9.7)

7.85

MAX



CRIMP/SOLDER NOTES:

I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.

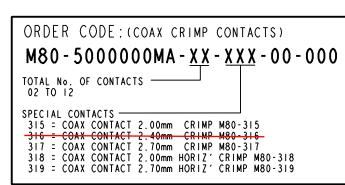
2. COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, MAIN INSULATOR, INNER CONTACT AND LATCHING COLLAR ARE PRE-ASSEMBLED AND SLEEVE AND INSULATED END PLUG ASSEMBLY ARE SEPARATE.

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



 OCTION SHEETS ARE AVAILABLE.				-	
HARWIN	THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER SET OUT HEREON ARE CONFIDENTIAL AND COPYRIGHT PROPERTY OF THE HARWIN GROUP AND MUST NOT BE	X. = ±1mm X.X = ±0.50mm X.XX = ±0.20mm		TITLE: DATAMATE MIX-TEK MALE ASSY WITH REVERSE SLOTTED JACKSCREW	FIX
www.harwin.com	DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING, TENDERING OR FOR ANY	X.XXX = ±0.01mm ANGLES = ±5°	FINISH: SEE ABOVE	DRAWING NUMBER:	SHT 5
technical@harwin.com	OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION.	UNLESS STATED	S/AREA: mm ²	M80-5000000MA-XX-XXX-00-000	OF 8

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

<u>SPECIFICATIONS:</u>

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 Ω 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 I6AWG M80-338 = 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:

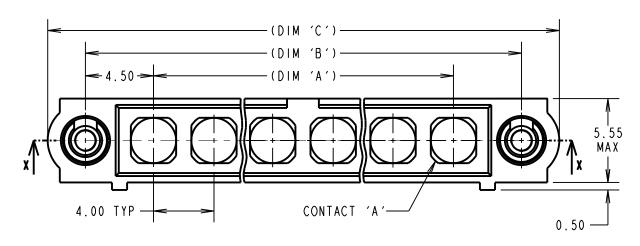
M80-335/336/337/338/339 = -55°C TO +125°C

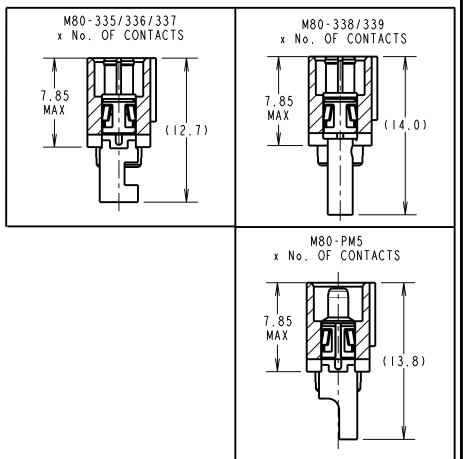
 $M80-PM5 = -55^{\circ}C TO + 150^{\circ}C$

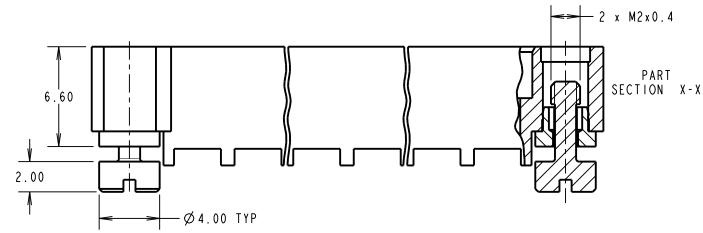
PACKING:

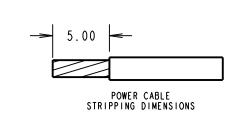
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

CRIMP AND SOLDER CONTACTS ONLY









DRAWING NUMBER:

NAME ISS.

M80-5000000MA-XX-XXX-00-000 0F,

DATE

R ADDE

MGP

SB

C/NOTE

ORDER CODE: (POWER CRIMP/SOLDER CONTACTS: M80-500000MA-XX-XXX-00-000

SEE ABOVE

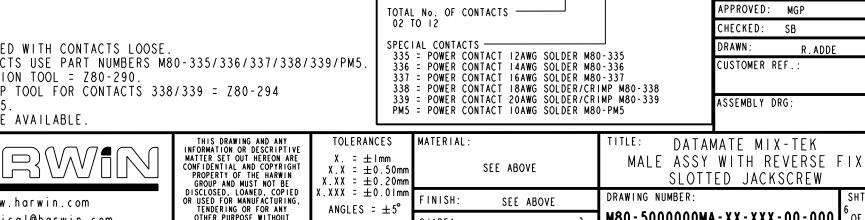
CRIMP/SOLDER NOTES:

- 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

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5. INSTRUCTION SHEETS ARE AVAILABLE.



X.XX = ±0.20mm

 $.XXX = \pm 0.01$ mm

ANGLES = ±5°

UNLESS STATED

OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION

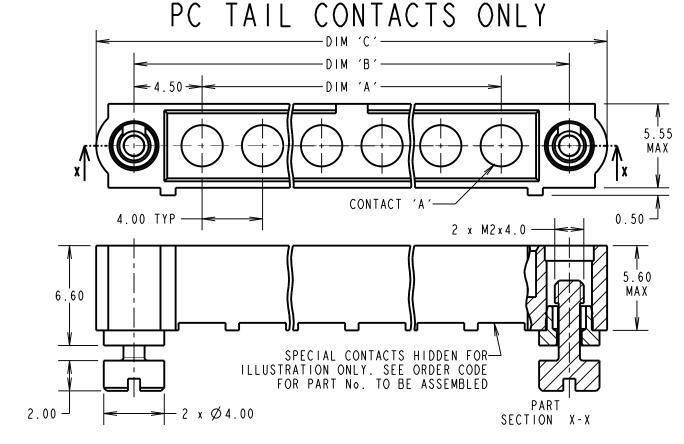
FINISH:

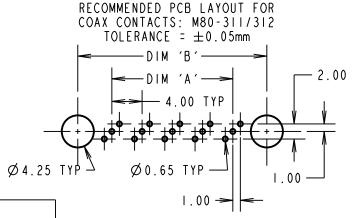
DIMENSION	CALCULATION		
DIM 'A'	4 x No. OF CONTACTS - 4.00		
DIM 'B'	4 x No. OF CONTACTS + 5.00		
DIM 'C'	4 x No. OF CONTACTS + 10.0		
EXAMPLE 2:	CONNECTOR WITH 10 POWER CONTACTS,		

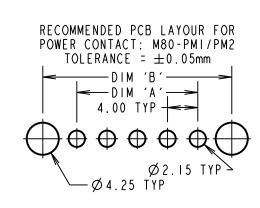
M80-500000MA-10-335-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm

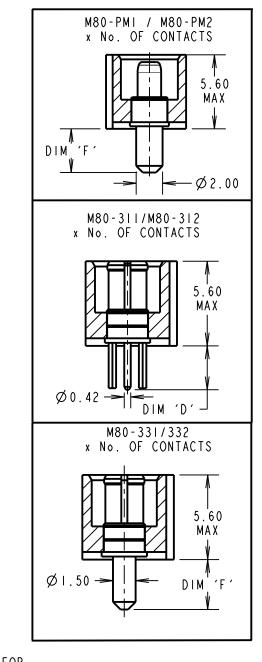
NOT TO SCALE DRAWING No.: M80-5000000MA-XX-XXX-00-000 THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

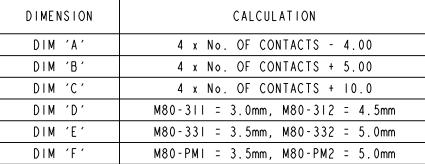










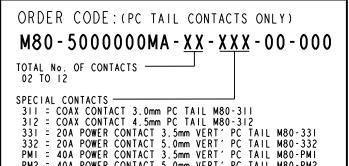


EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS. M80-5000000MA-08-311-00-000

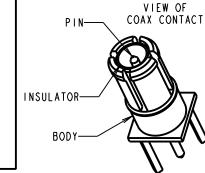
DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mmDIM'D' = 3.0mm

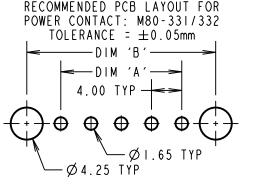
EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-500000MA-I0-PMI-00-000

DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm DIM 'F' = 3.5mm



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





	MGP	4	17.12.19	21540
	NAME	188.	DATE	C/NOTE
	APPROVED: MGP CHECKED: SB			
	DRAWN: R.ADDE)E
	CUSTO)MER	REF.:	
	ASSEM	1BLY I	DRG:	

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

UNLESS STATED

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

S/AREA:

DATAMATE MIX-TEK MALE ASSY WITH REVERSE FIX SLOTTED JACKSCREW

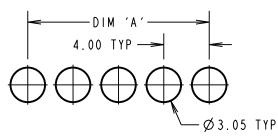
DRAWING NUMBER:

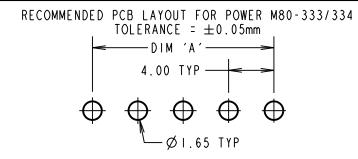
M80-5000000MA-XX-XXX-00-000 1 OF,

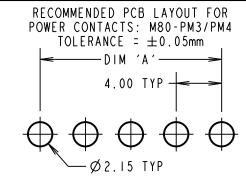
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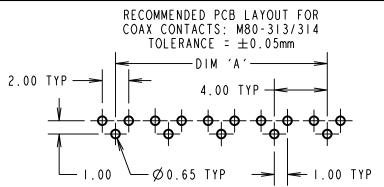
IF IN DOUBT - ASK DRAWING No.: M80-5000000MA-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

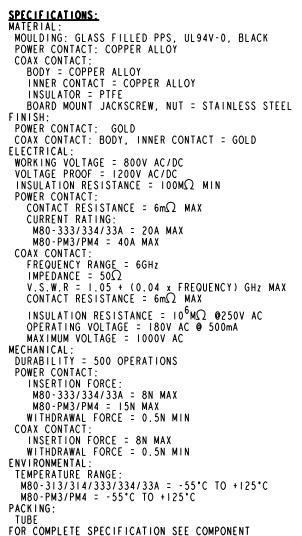






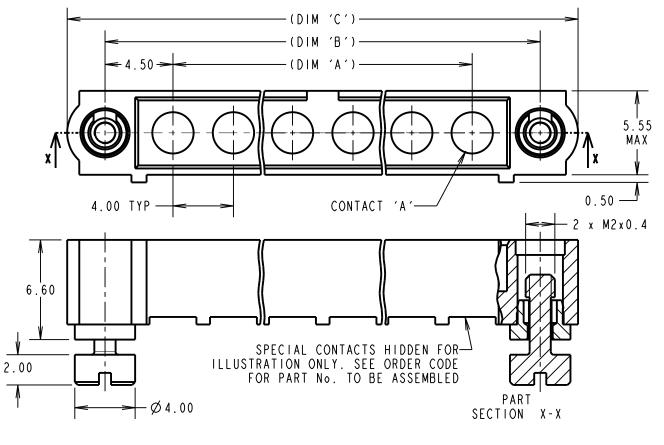


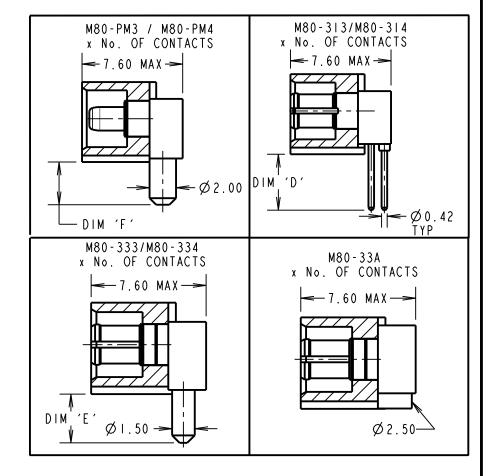




SPECIFICATION COOSXX (LATEST ISSUE)

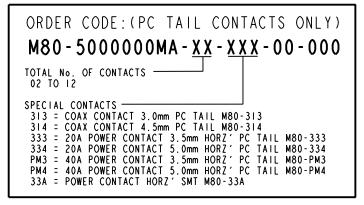
PC TAIL + SMT CONTACTS ONLY

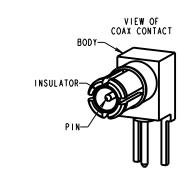




DIMENSION CALCULATION DIM 'A' 4 x No. OF CONTACTS - 4.00 DIM 'B' 4 x No. OF CONTACTS + 5.00 DIM 'C' 4 x No. OF CONTACTS + 10.0 DIM 'D' M80-313 = 3.0mm, M80-314 = 4.5mm DIM 'E' M80-333 = 3.0mm, M80-334 = 4.5mm DIM 'F' M80-PM3 = 3.5mm, M80-PM4 = 5.0mm

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-500000MA-10-333-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm DIM 'E' = 3.0mm





S/AREA:

	MGP	4	17.12.19	21540
	NAME	188.	DATE	C/NOTE
	APPROVED: MGP CHECKED: SB			
	DRAWN: R.ADDE)E
	CUSTO)MER I	REF.:	
	ASSEM	IBLY (ORG:	

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technical@harwin.com

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

UNLESS STATED

MATERIAL: SEE ABOVE FINISH:

DATAMATE MIX-TEK MALE ASSY WITH REVERSE FIX SLOTTED JACKSCREW

DRAWING NUMBER: SEE ABOVE

M80-5000000MA-XX-XXX-00-000 ° OF,