Customer Information

DRAWING No.: M80-5000000MF-XX-XXX-00-000 SHEET 4 OF 6 NOT TO SCALE 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

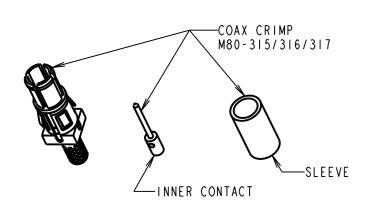
ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

PACKING:

BAG FOR COMPLETE SPECIFICATION SEE COMPONENT

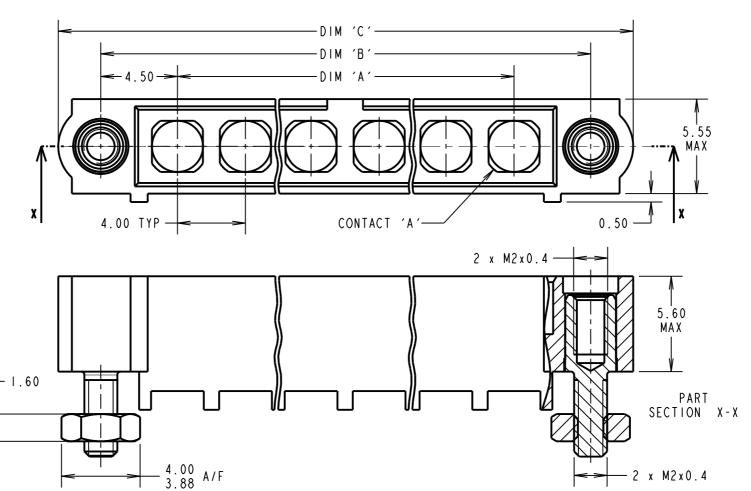
SPECIFICATION COO5XX (LATEST ISSUE)

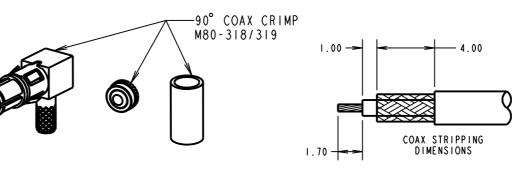


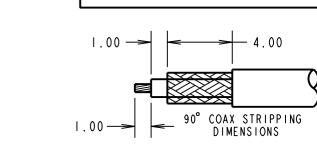
CALCULATION			
4 x No. OF CONTACTS - 4.00			
4 x No. OF CONTACTS + 5.00			
4 x No. OF CONTACTS + 10.0			

EXAMPLE 1: CONNECTOR WITH 08 COAX CONTACTS, M80-500000MF-08-315-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mm

COAX CRIMP CONTACTS ONLY







(3.6)

 $M80 - 315 / \frac{316}{316} / 317$

x No. OF CONTACTS

M80-318/319

x No. OF CONTACTS

10.30

MAX

(13.4)

7.85

MAX

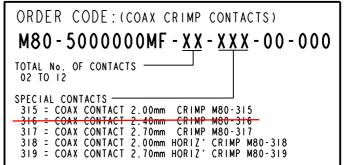
CRIMP/SOLDER NOTES:

- I. CONNECTORS ARE SUPPLIED WITH CONTACTS AND NUTS 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 M80-315/316/317/318/319.

 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.



	FM	4	18.0	9.17	13269
	NAME	ISS.	D.A	ATE	C/NOT
	APPR(OVED:	F.	MCGOV	VAN
	CHECKED: S. BENNETT DRAWN: C.PENROSE				
	CUSTO	OMER I	REF.:		
	ASSEM	MBLY (ORG:		

MARWIN
www.harwin.com

technical@harwin.com

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ANGLES = ±5° OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION UNLESS STATED

TOLERANCES X. = ±1mm X.X = ±0.50mm X.XX = ±0.10mm $1.XXX = \pm 0.01$ mm FINISH

S/AREA:

MATERIAL: SEE ABOVE SEE ABOVE TITLE: DATAMATE MIX-TEK MALE ASSY WITH BOARD MOUNT J/SCREW

DRAWING NUMBER: M80-5000000MF-XX-XXX-00-000 0F

Customer Information

DRAWING No.: M80-5000000MF-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 I2AWG M80-336 = 15A MAX WITH 14AWG M80-337 = IOA MAX WITH I6AWG

> M80-338 = 8A MAX WITH 18AWG M80-339 = 5A MAX WITH 20AWGM80-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:

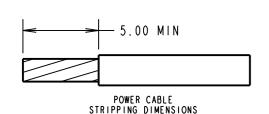
TEMPERATURE RANGE:

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

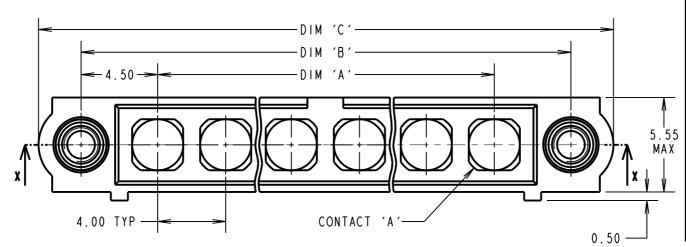
 $M80-PM5 = -55^{\circ}C TO + 150^{\circ}C$

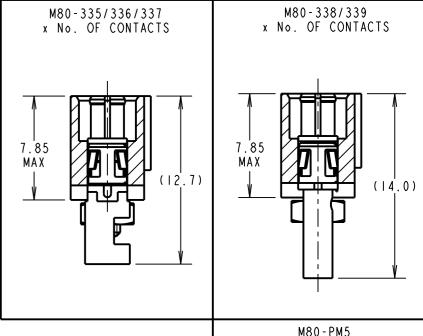
PACKING:

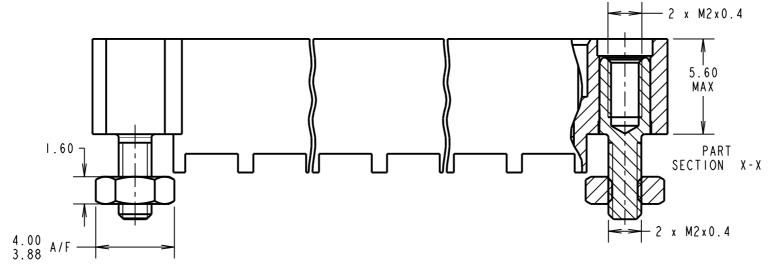
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

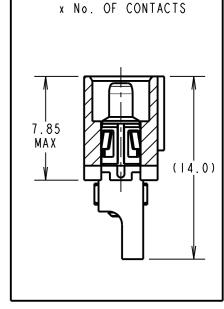


POWER CRIMP & SOLDER CONTACTS ONLY









CRIMP/SOLDER NOTES:

CONNECTORS ARE SUPPLIED WITH CONTACTS AND NUTS LOOSE.

2. POWER CONTACT EXTRACTION TOOL: Z80-290

3. FOR EXTRA POWER CONTACTS, USE PART NUMBERS M80-335/336/337/338/339/PM5

4. RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 338/339 = Z80-294 AND POSITIONER Z80-295

5. INSTRUCTION SHEETS ARE AVAILABLE.

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

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS. M80-500000MF-10-335-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm

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

FINISH:

S/AREA:

TOTAL No. OF CONTACTS -

SPECIAL CONTACTS

339 = POWER CONTACT 20AWG SOLDER/CRIMP M80-339 PM5 = POWER CONTACT 10AWG SOLDER M80-PM5 MATERIAL: SEE ABOVE SEE ABOVE

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

ORDER CODE: (POWER CRIMP/SOLDER CONTACTS)

M80-500000MF-XX-XXX-00-000

TITLE: DATAMATE MIX-TEK MALE ASSY WITH BOARD MOUNT J/SCREW

NAME ISS

CHECKED:

CUSTOMER REF.:

ASSEMBLY DRG:

DRAWN:

DRAWING NUMBER:

M80-5000000MF-XX-XXX-00-000

18.09.17

DATE

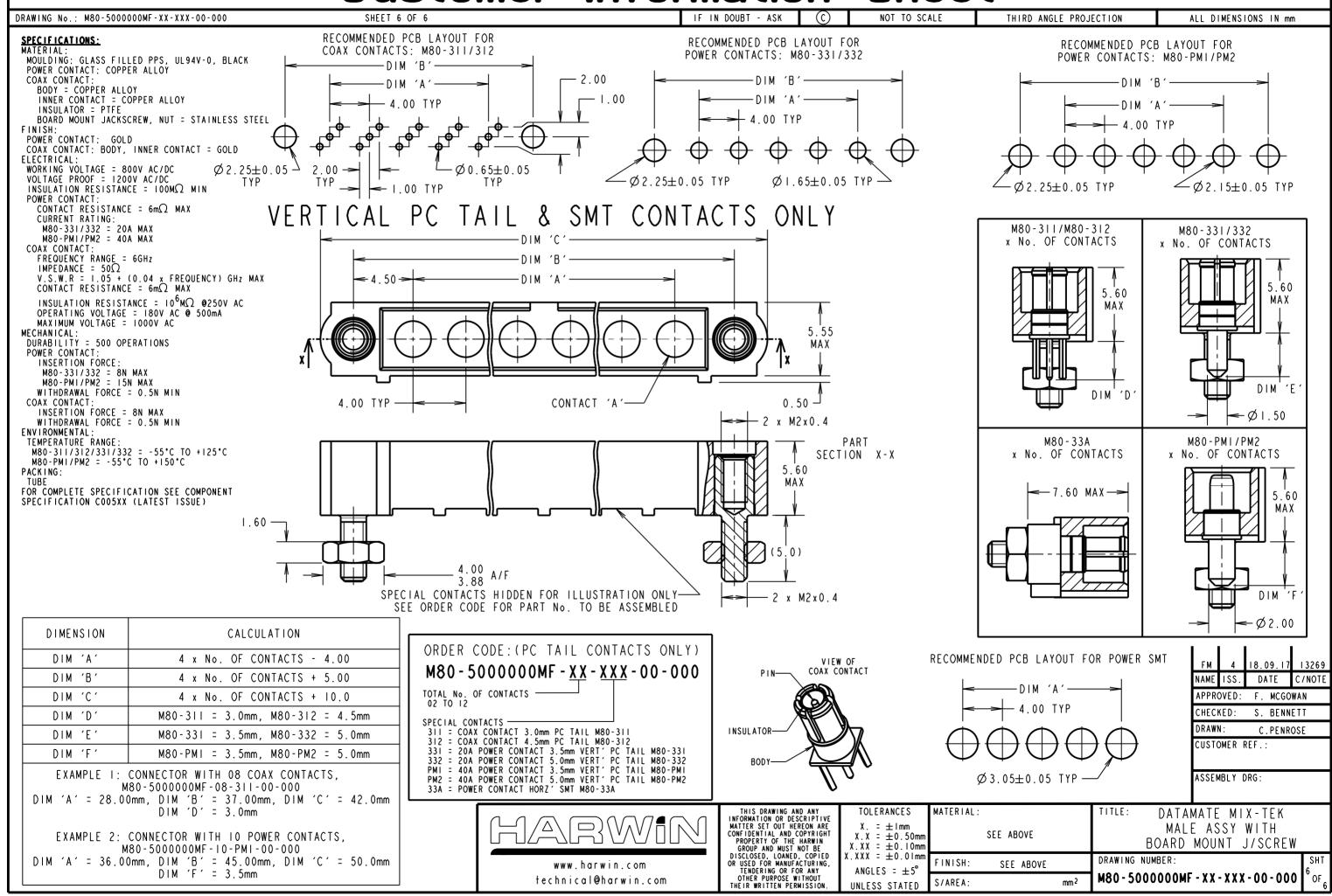
S. BENNETT

C.PENROSE

APPROVED: F. MCGOWAN

C/NOTE

Customer Information



technical@harwin.com

DIM F' = 3.5 mm

ANGLES = ±5°

UNLESS STATED

S/AREA:

M80-500000MF-XX-XXX-00-000