Customer Information Sheet

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

SPECIFICATIONS:

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:

MATERIAL:

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

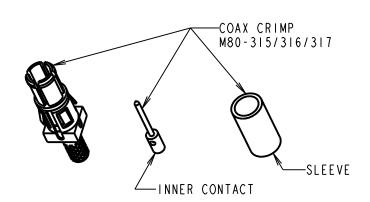
ENVIRONMENTAL: TEMPERATURE RANGE = -55°C TO +125°C

PACKING:

BAG

FOR COMPLETE SPECIFICATION SEE COMPONENT

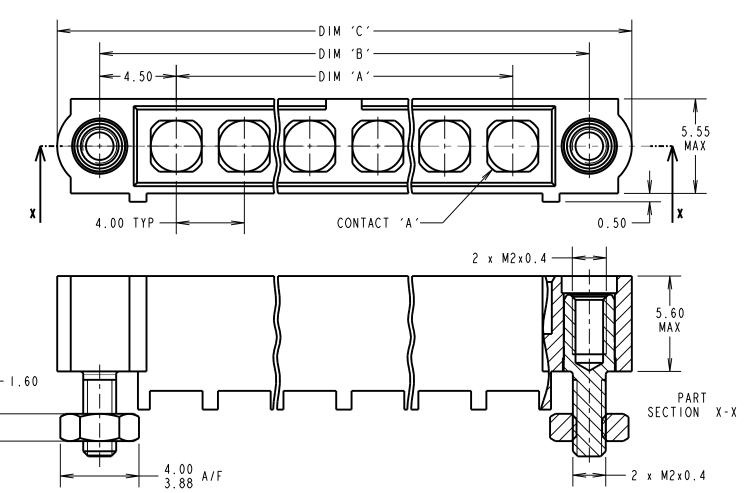
SPECIFICATION COO5XX (LATEST ISSUE)

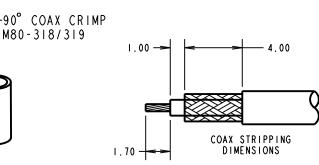


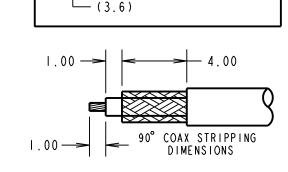
DIMENSION	CALCULATION					
DIM 'A'	4 x No. OF CONTACTS - 4.00					
DIM 'B'	4 x No. OF CONTACTS + 5.00					
DIM 'C'	4 x No. OF CONTACTS + 10.0					

EXAMPLE I: 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







M80 - 315 / 316 / 317

x No. OF CONTACTS

M80-318/319

x No. OF CONTACTS

10.30

MAX

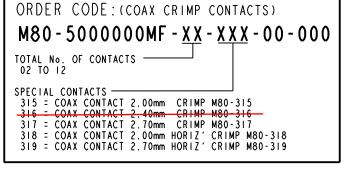
(13.4)

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



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		APPRO	OVED:	MGP			
		CHEC	KED:	MR			
		DRAW	١:	S.M	CCUL	LAGH	
		CUSTO)MER	REF.:			
		ASSEM	1BLY	DRG:			
0 . T T T							

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

UNLESS STATED

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

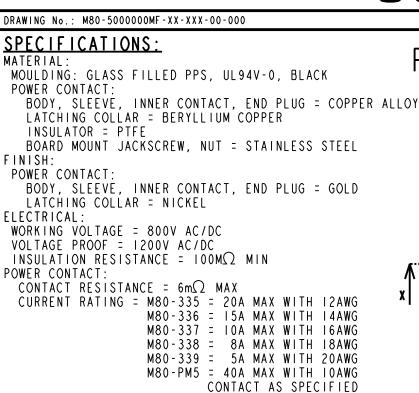
DATAMATE MIX-TEK MALE ASSY WITH BOARD MOUNT J/SCREW

DRAWING NUMBER:

M80-500000MF-XX-XXX-00-000 4 OF

Customer Information Sheet

NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm



MECHANICAL:

POWER CONTACT:

ENVIRONMENTAL:

PACKING:

TEMPERATURE RANGE:

DIMENSION

DIM 'A'

DIM 'B'

DIM 'C'

INSERTION FORCE:

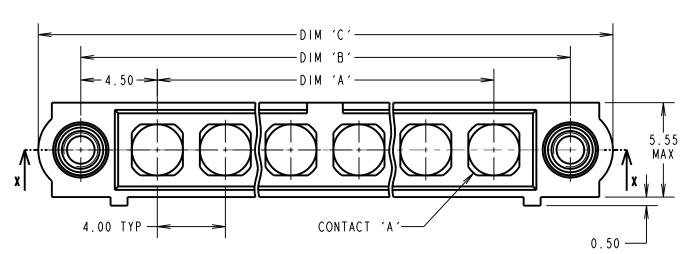
M80-PM5 = 15N MAX

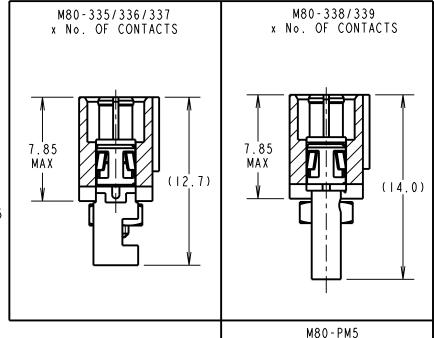
DURABILITY = 500 OPERATIONS

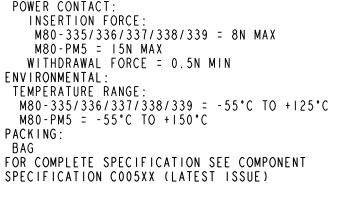
WITHDRAWAL FORCE = 0.5N MIN

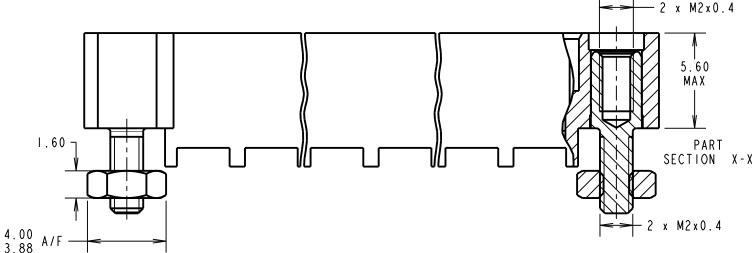
 $M80-PM5 = -55^{\circ}C TO + 150^{\circ}C$

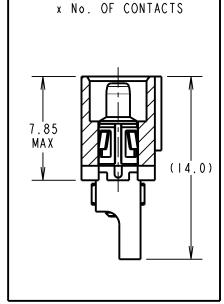
POWER CRIMP & SOLDER CONTACTS ONLY

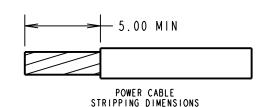












CRIMP/SOLDER NOTES:

I. 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.

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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

TOTAL No. OF CONTACTS -

02 TO 12

SPECIAL CONTACTS

ORDER CODE: (POWER CRIMP/SOLDER CONTACTS)

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

339 = POWER CONTACT 20AWG SOLDER/CRIMP M80-339 PM5 = POWER CONTACT 10AWG SOLDER M80-PM5 ASSEMBLY DRG: TITLE: DATAMATE MIX-TEK MALE ASSY WITH BOARD MOUNT J/SCREW

NAME ISS.

APPROVED:

CUSTOMER REF.:

CHECKED:

DRAWN:

DATE

S.MCCULLAGH

MGP

C/NOTE

DRAWING NUMBER:

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

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS.								
			•					
M	20 - 5000000ME	_ ^ _ 2 2 5 _ ^ ^ _ ^ ^ _ ^ ^	١					
ĮΨĮ	OU-JUUUUUMI	- 10 - 335 - 00 - 001	J					
DIM 'A' = 36.00	Omm, DIM 'B'	= 45.00mm, DI	M 'C' = 50.0 mm					

CALCULATION

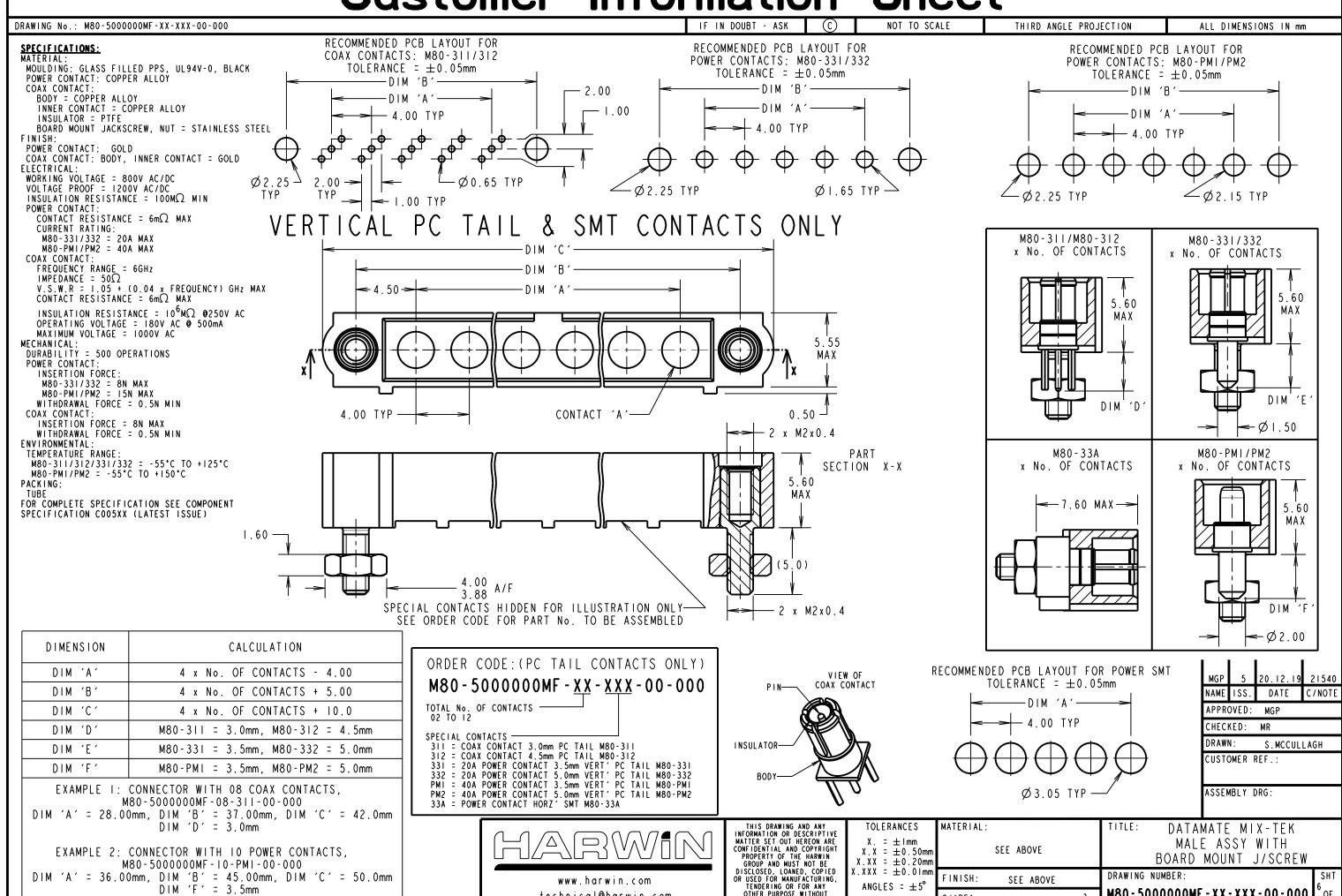
4 x No. OF CONTACTS - 4.00

4 x No. OF CONTACTS + 5.00

4 x No. OF CONTACTS + 10.0

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Customer Information Sheet



technical@harwin.com

DIM 'F' = 3.5mm

ANGLES = ±5°

UNLESS STATED

S/AREA:

OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION

M80-5000000MF-XX-XXX-00-000 0F