Customer Information Sheet

DRAWING No.: M80-4000000F9-XX-XXX-00-000 SHEET 4 OF 6 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm



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

BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY LATCHING COLLAR = BERYLLIUM COPPER

INSULATOR = PTFE

JACKSCREW, NUT = STAINLESS STEEL.

FINISH:

COAX CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD

LATCHING COLLAR = NICKEL

ELECTRICAL 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

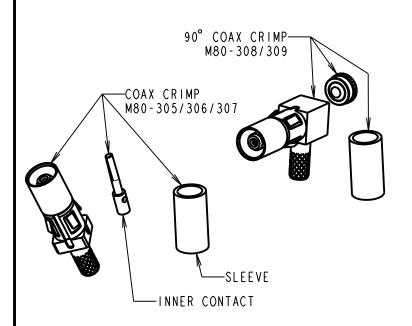
WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

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

FOR COMPLETE SPECIFICATION SEE COMPONENT

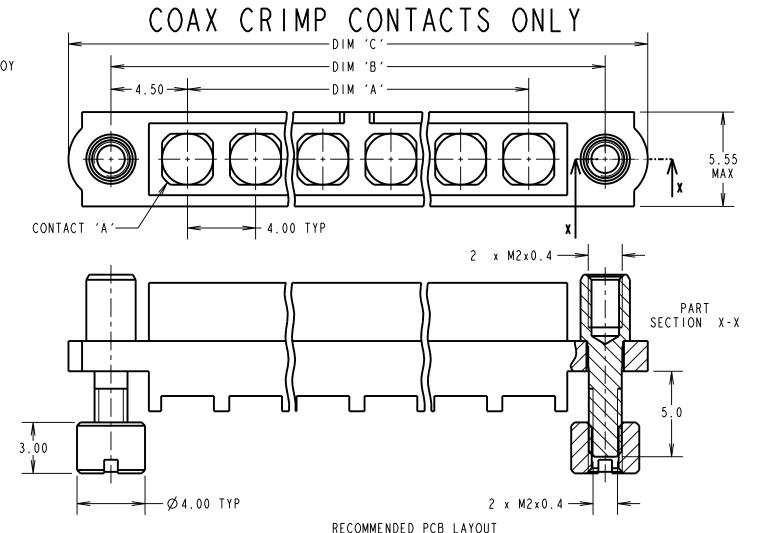
SPECIFICATION COO5XX (LATEST ISSUE)

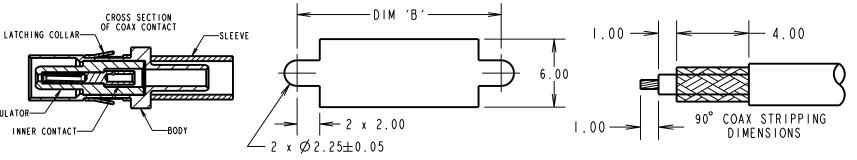


DIMENSION	CALCULATION			
DIM 'A'	4 x No. OF CONTACTS - 4.00			
DIM 'B'	4 x No. OF CONTACTS + 5.00			
DIM 'C'	4 x No. OF CONTACTS + 10.0			

EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS, M80-400000F9-08-305-00-000

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





CRIMP/SOLDER NOTES:

INNER CONTACT

I. CONTACTS AND BOARD MOUNT NUTS ARE SUPPLIED WITH CONNECTOR, BUT NOT ASSEMBLED AS SHOWN FOR ILLUSTRATION.

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 M80-305/306/307/308/309.

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

UNLESS STATED

TOTAL No. OF CONTACTS -02 TO 12 SPECIAL CONTACTS MATERIAL:

SEE ABOVE

SEE ABOVE

FINISH:

S/AREA:

ORDER CODE: (COAX CRIMP CONTACTS ONLY)	MGP	5	10.01.18	21020
M80-4000000F9-XX- <u>XXX</u> -00-000	NAME	I\$\$.	DATE	C/NOTE
\top \top	APPROVED: MGP			
TOTAL No. OF CONTACTS ————————————————————————————————————	CHECKED: SB			
SPECIAL CONTACTS	DRAWN: C.PENROSE			
305 = COAX CONTACT 2.00mm	CUSTO	OMER F	REF.:	
308 = COAX CONTACT 2.00mm HORIZ' CRIMP M80-308 309 = COAX CONTACT 2.70mm HORIZ' CRIMP M80-309	ASSEN	MBLY (ORG:	

STRAIGHT COAX STRIPPING DIMENSIONS

M80-305/306/307

x No. OF CONTACTS

M80-308/309

x No. OF CONTACTS

10.30 MAX-

1.00 -

1.70 -

(13.4)

7.55

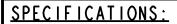
MAX

(9.7

DATAMATE MIX-TEK FEMALE ASSEMBLY WITH BOARDMOUNT JACKSCREWS DRAWING NUMBER M80-400000F9-XX-XXX-00-000

Customer Information Sheet

DRAWING No.: M80-4000000F9-XX-XXX-00-000 THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SHEET 5 OF 6



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

BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY LATCHING COLLAR = BERYLLIUM COPPER

INSULATOR = PTFE

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 = M80-325 = 20A MAX WITH 12AWG M80-326 = 15A MAX WITH 14AWG

M80-327 = 10A MAX WITH 16AWGM80-328 = 8A MAX WITH 18AWG

M80-329 = 5A MAX WITH 20AWG M80-32A = 20A MAX WITH 12AWG M80-32B = 15A MAX WITH 14AWG

M80-32C = 10A MAX WITH 16AWG M80-PF5 = 40A MAX WITH IOAWG

CONTACT AS SPECIFIED

MECHANICAL:

DURABILITY = 500 OPERATIONS

POWER CONTACT: INSERTION FORCE

M80-325/326/327/328/329/

32A/32B/32C = 8N MAX

M80-PF5 = 15N MAXWITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

TEMPERATURE RANGE:

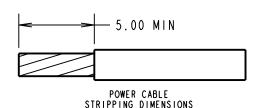
M80-325/326/327/328/329/ 32A/32B/32C = -55°C TO +125°C

 $M80-PF5 = -55^{\circ}C TO + 150^{\circ}C$

PACKING:

BAG FOR COMPLETE SPECIFICATION SEE COMPONENT

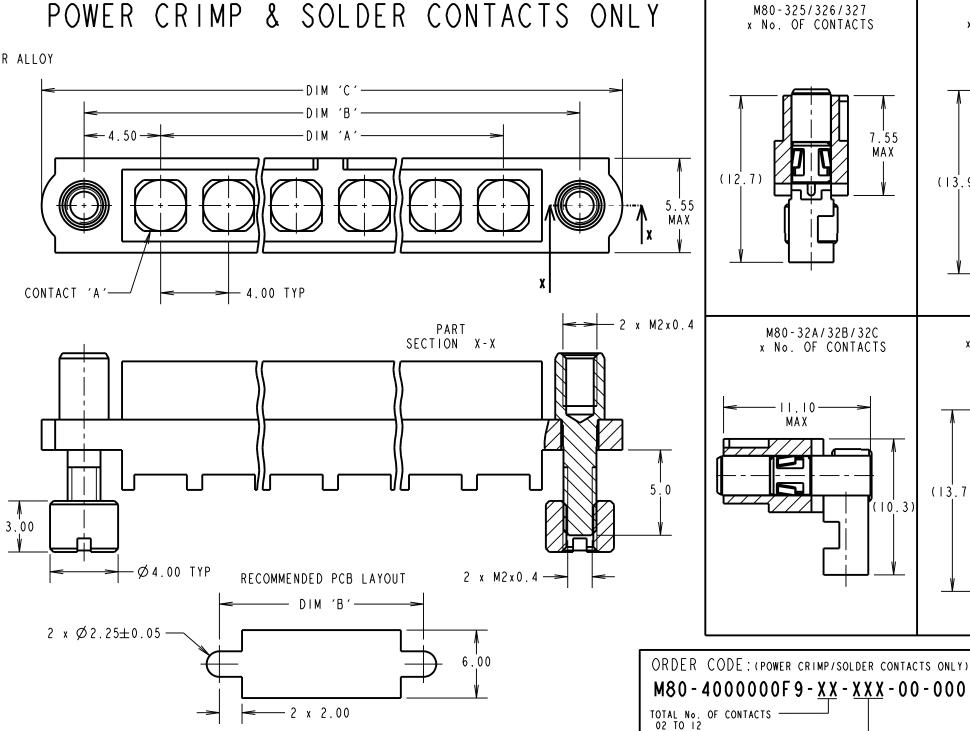
SPECIFICATION COO5XX (LATEST ISSUE)



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 2: CONNECTOR WITH 10 POWER CONTACTS. M80-400000F9-10-325-00-000

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



CRIMP/SOLDER NOTES:

- I. CONTACTS AND BOARD MOUNT NUTS ARE SUPPLIED WITH CONNECTOR. BUT NOT ASSEMBLED AS SHOWN FOR ILLUSTRATION.
- 2. FOR EXTRA POWER CONTACTS USE PART NUMBERS M80-325/326/327/328/ 329/32A/32B/32C/PM5
- POWER CONTACT EXTRACTION TOOL = Z80-290.
- 4. RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 328/329 = Z80-294 AND POSITIONER Z80-295.
- 5. INSTRUCTION SHEETS ARE AVAILABLE.



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

TOLERANCES

SPECIAL CONTACTS -

325 = POWER CONTACT 12AWG SOLDER M80-325

326 = POWER CONTACT 14AWG SOLDER M80-326

327 = POWER CONTACT 16AWG SOLDER M80-327

328 = POWER CONTACT 18AWG SOLDER/CRIMP M80-328

SEE ABOVE

SEE ABOVE

FINISH S/AREA: UNLESS STATED

329 = POWER CONTACT 20AWG SOLDER/CRIMP M80-329 32A = POWER CONTACT 12AWG HORIZ' SOLDER M80-32A 32B = POWER CONTACT 14AWG HORIZ' SOLDER M80-32B 32C = POWER CONTACT 16AWG HORIZ' SOLDER M80-32C PF5 = POWER CONTACT 10AWG SOLDER M80-PF5 ASSEMBLY DRG: MATERIAL: TITLE:

M80-325/326/327

x No. OF CONTACTS

M80-32A/32B/32C

x No. OF CONTACTS

11 10

MAX

(12.7)

7.55

MAX

(13.9)

(13.7)

(10.3)

MGP 10.01.18 21020 NAME ISS. DATE C/NOTE APPROVED: MGP CHECKED: SB DRAWN: C.PENROSE CUSTOMER REF.:

M80-328/329

x No. OF CONTACTS

M80-PF5

x No. OF CONTACTS

MAX

7.55

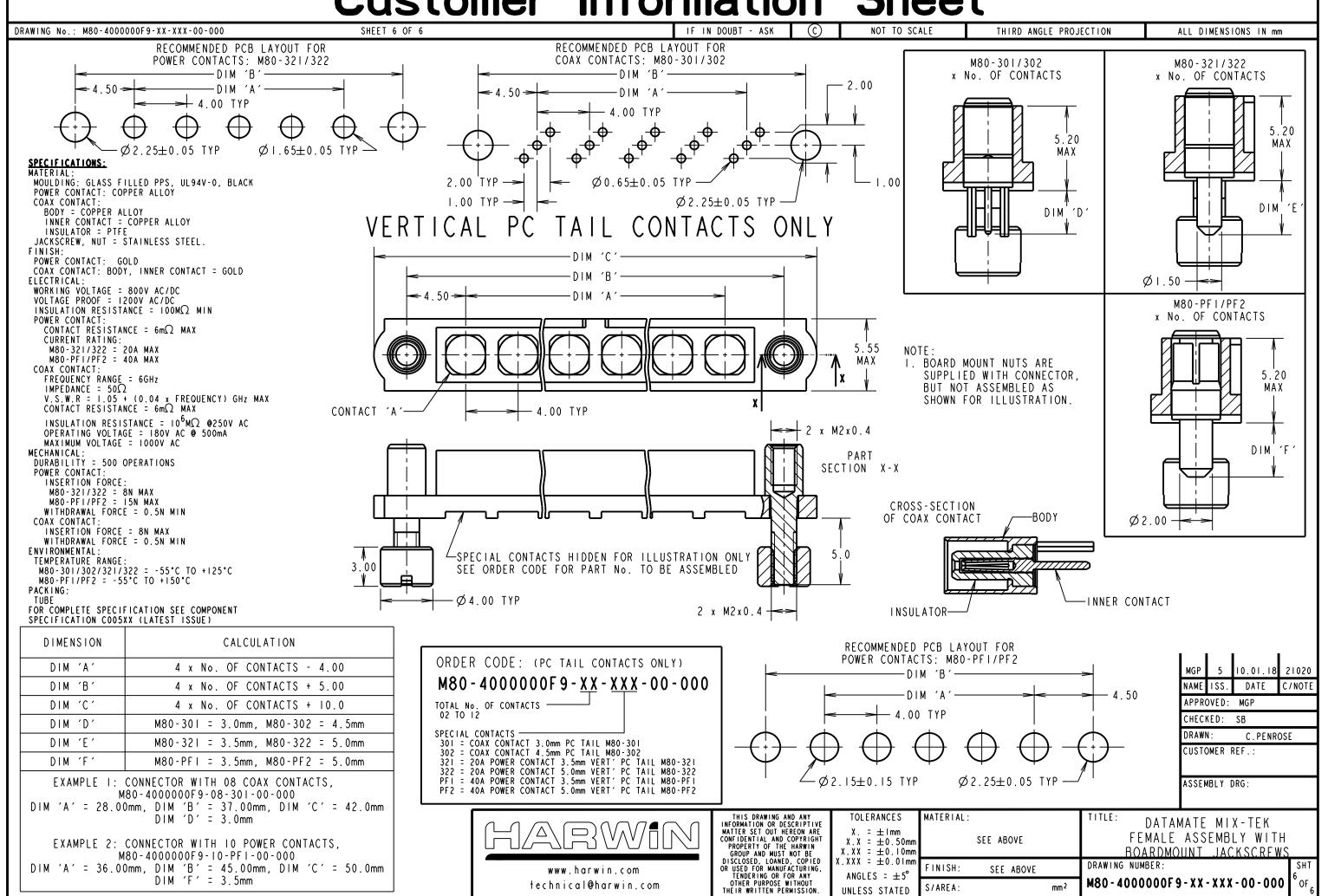
MAX

DATAMATE MIX-TEK FEMALE ASSEMBLY WITH

BOARDMOUNT JACKSCREWS DRAWING NUMBER:

M80-400000F9-XX-XXX-00-000

Customer Information Sheet



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