## Customer Information Sheet

NOT TO SCALE DRAWING No.: M80-4000000F3-XX-XXX-00-000 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, NUTS = 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 =  $50\Omega$  $V.S.W.R = 1.05 + (0.04 \times FREQUENCY)$  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:

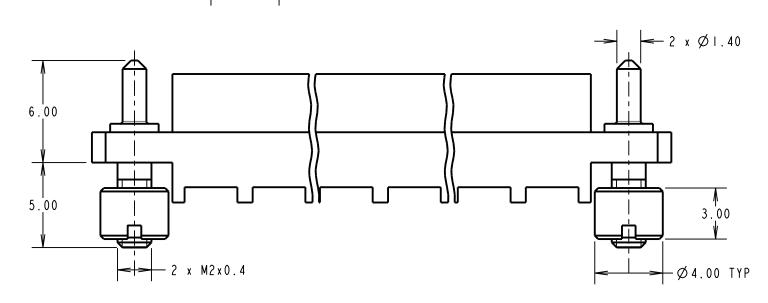
TEMPERATURE RANGE = -55°C TO +125°C

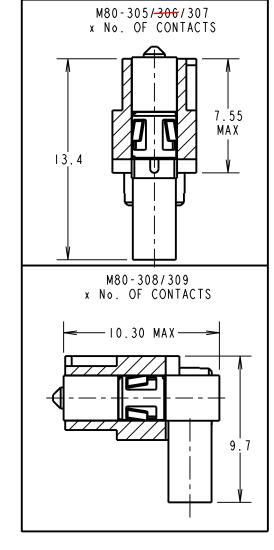
PACKING:

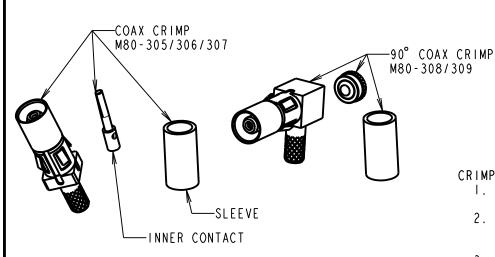
BAG

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

COAX CRIMP CONTACTS 4.50 →

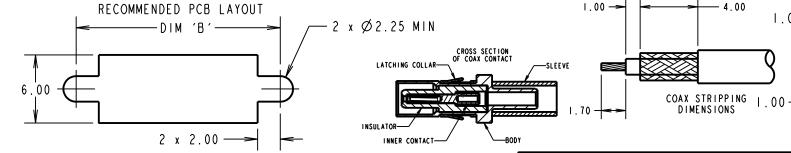






DIMENSION	CALCULATION				
DIM 'A'	4 x No. OF CONTACTS - 4.00				
DIM 'B'	4 x No. OF CONTACTS + 5.00				
DIM 'C'	4 x No. OF CONTACTS + 10.0				

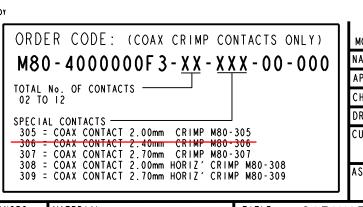
EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS, M80-400000F3-08-305-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mm



CRIMP/SOLDER NOTES: 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.
- FOR EXTRA COAX CONTACTS, USE PART NUMBERS M80-305/306/307/308/309.
- COAX CONTACT EXTRACTION TOOL = Z80-290.
- 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.

CONTACT 'A'



)		MGP	5	12.01.18	21020		
0		NAME	188.	DATE	C/NOTE		
		APPRO	OVED:	MGP			
	CHECKED: SB						
	DRAWN: C.PENROSE						
		CUSTOMER REF.:					
		ASSEN	MBLY (	ORG:			

COAX STRIPPING

DIMENSIONS



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OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION

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

UNLESS STATED

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

S/AREA:

5.55

MAX

DATAMATE MIX-TEK FEMALE ASSEMBLY WITH BOARDMOUNT JACKSCREWS

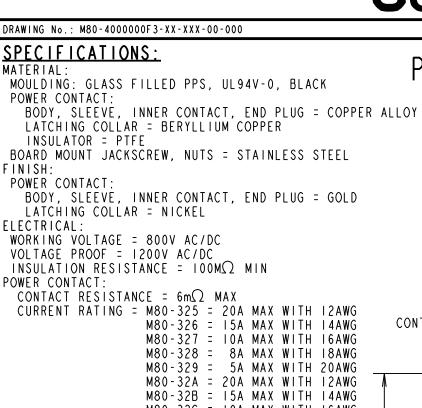
DRAWING NUMBER:

1.00

M80-4000000F3-XX-XXX-00-000 4 OF

# Customer Information Sheet

NOT TO SCALE DRAWING No.: M80-4000000F3-XX-XXX-00-000 THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm



M80-32C = 10A MAX WITH 16AWG M80-PF5 = 40A MAX WITH 10AWG 6.00 CONTACT AS SPECIFIED

MECHANICAL:

DURABILITY = 500 OPERATIONS POWER CONTACT:

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

32A/32B/32C = 8N MAX M80-PF5 = I5N MAX

WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

TEMPERATURE RANGE:

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

DIMENSION

DIM 'A'

DIM 'B

DIM 'C'

 $32A/32B/32C = -55^{\circ}C TO + 125^{\circ}C$ 

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

PACKING: BAG

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

5.00 MIN

POWER CABLE STRIPPING DIMENSIONS

### POWER CRIMP & SOLDER CONTACTS ONLY 5.55 MAX CONTACT 'A 2 x Ø1.40 5.00 3.00 $2 \times M2 \times 0.4$ $\emptyset$ 4.00 RECOMMENDED PCB LAYOUT $2 \times \emptyset 2.25 \pm 0.05$ 6.00 M80-400000F3-XX-XXX-00-000 TOTAL No. OF CONTACTS - $-2 \times 2.00$ 02 TO 12 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

#### 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
- RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 328/329 = Z80-294 AND POSITIONER Z80-295
- 5. INSTRUCTION SHEETS ARE AVAILABLE.



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

S/AREA:

MATERIAL: SEE ABOVE

PF5 = POWER CONTACT 10AWG SOLDER M80-PF5

328 = POWER CONTACT 18AWG SOLDER/CRIMP M80-329
329 = POWER CONTACT 20AWG SOLDER/CRIMP M80-329
328 = POWER CONTACT 12AWG HORIZ' SOLDER M80-32A
32B = POWER CONTACT 16AWG HORIZ' SOLDER M80-32B
32C = POWER CONTACT 16AWG HORIZ' SOLDER M80-32C

TITLE: DATAMATE MIX-TEK FEMALE ASSEMBLY WITH BOARDMOUNT JACKSCREWS

DRAWING NUMBER:

M80-4000000F3-XX-XXX-00-000 OF

FINISH: SEE ABOVE

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-400000F3-I0-325-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm

CALCULATION

4 x No. OF CONTACTS - 4.00

4 x No. OF CONTACTS + 5.00

4 x No. OF CONTACTS + 10.0

7.55 MAX 13.7 10.3

M80-328/329

x No. OF CONTACTS

M80-PF5

x No. OF CONTACTS

7.55

MAX

ORDER CODE: (POWER CRIMP/SOLDER CONTACTS ONLY)

M80-325/326/327

x No. OF CONTACTS

M80-32A/32B/32C

x No. OF CONTACTS

1.20

MAX

12.7

7.55

MAX

13.9

12.01.18 21020 DATE C/NOTE

APPROVED: MGP CHECKED: SB DRAWN: C.PENROSE

CUSTOMER REF.:

ASSEMBLY DRG:

