## Customer Information Sheet

NOT TO SCALE DRAWING No.: M80-4000000F3-XX-XXX-00-000 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

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:

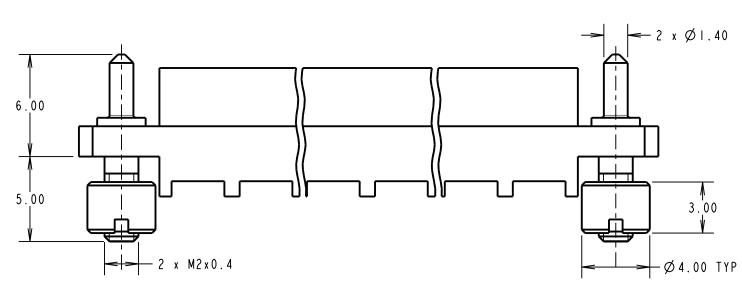
TEMPERATURE RANGE = -55°C TO +125°C

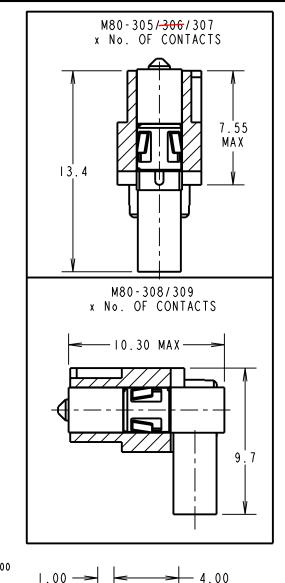
PACKING:

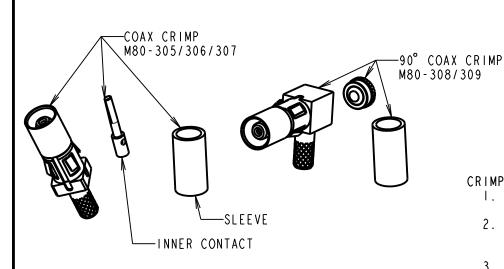
BAG

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

COAX CRIMP CONTACTS 4.50 → 5.55 MAX CONTACT 'A'

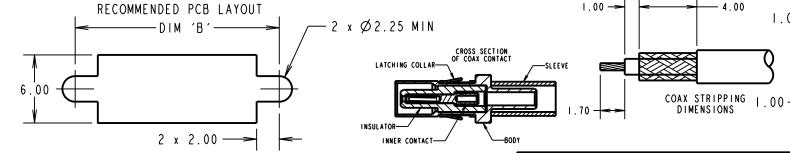






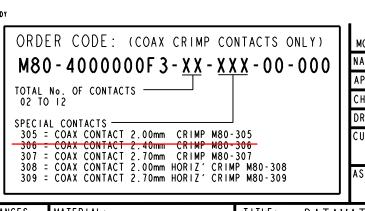
DIMENSION	CALCULATION			
DIM 'A'	4 x No. OF CONTACTS - 4.00			
DIM 'B'	4 x No. OF CONTACTS + 5.00			
DIM 'C'	4 x No. OF CONTACTS + 10.0			

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.



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

COAX STRIPPING

DIMENSIONS

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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:

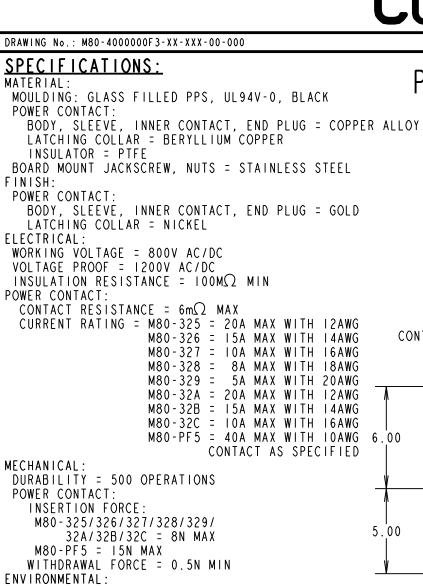
DATAMATE MIX-TEK FEMALE ASSEMBLY WITH BOARDMOUNT JACKSCREWS

DRAWING NUMBER:

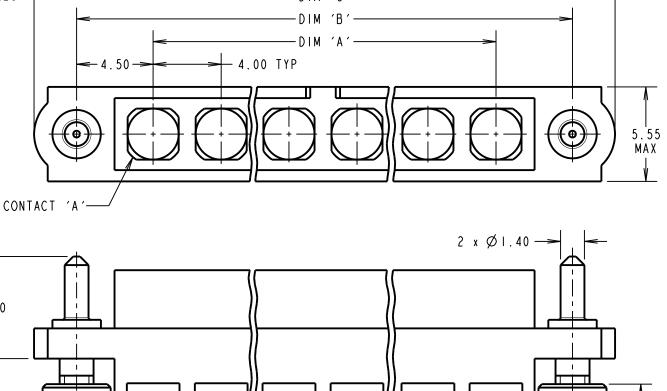
M80-4000000F3-XX-XXX-00-000 4 OF

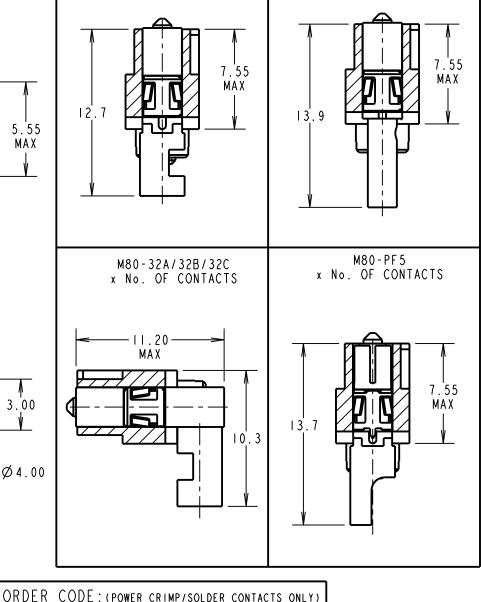
## Customer Information Sheet

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



POWER CRIMP & SOLDER CONTACTS ONLY





M80-325/326/327

x No. OF CONTACTS

M80-328/329

x No. OF CONTACTS

 $32A/32B/32C = -55^{\circ}C TO + 125^{\circ}C$ FOR COMPLETE SPECIFICATION SEE COMPONENT

SPECIFICATION COO5XX (LATEST ISSUE) 5.00 MIN

TEMPERATURE RANGE:

PACKING: BAG

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

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

POWER CABLE STRIPPING DIMENSIONS

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, M80-400000F3-I0-325-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm CRIMP/SOLDER NOTES:

 $2 \times \emptyset 2.25 \pm 0.05$ 

2 x M2x0.4

- 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.



RECOMMENDED PCB LAYOUT

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6.00

 $-2 \times 2.00$ 

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

MATERIAL: SEE ABOVE SEE ABOVE

TOTAL No. OF CONTACTS -

02 TO 12

M80-400000F3-XX-XXX-00-000

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

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

PF5 = POWER CONTACT 10AWG SOLDER M80-PF5

DATAMATE MIX-TEK FEMALE ASSEMBLY WITH BOARDMOUNT JACKSCREWS

NAME

APPROVED:

CUSTOMER REF.:

ASSEMBLY DRG:

CHECKED:

DRAWN:

12.01.18 21020

C.PENROSE

C/NOTE

DATE

MGP

SB

DRAWING NUMBER:

FINISH: S/AREA: UNLESS STATED

3.00

 $\emptyset$  4.00

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

OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION

