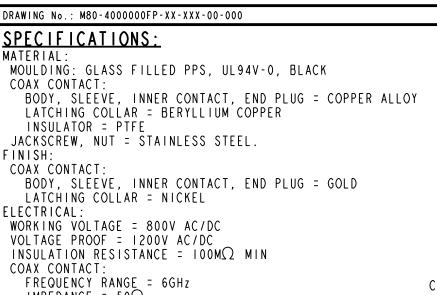
Customer Information Sheet

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



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:

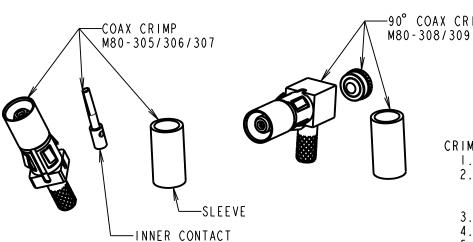
INSERTION FORCE = 8N MAX WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

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

BAG

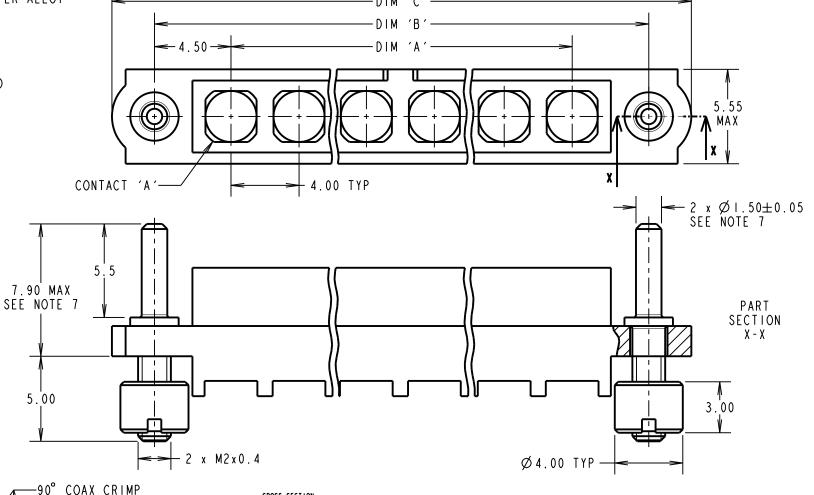
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

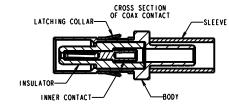


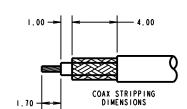
DIMENSION	CALCULATION				
DIM 'A'	4 x No. OF CONTACTS - 4.00				
DIM 'B'	4 x No. OF CONTACTS + 5.00				
DIM 'C'	4 x No. OF CONTACTS + 10.0				

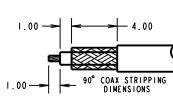
EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS, M80-400000FP-08-305-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mm

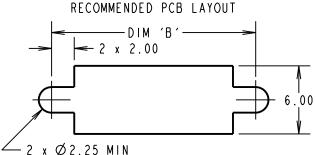












M80-305/306/307

x No. OF CONTACTS

M80-308/309

x No. OF CONTACTS

-10.30 MAX-

(13.4)

7.55

MAX

(9.7)

CRIMP/SOLDER NOTES:

I. CONNECTORS ARE SUPPLIED WITH CONTACTS 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 M80-305/306/307/308/309.

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.

INSTRUCTION SHEETS ARE AVAILABLE.

7. THIS ASSEMBLY CAN ONLY MATE WITH MP MALE FIXINGS

8. GUIDE PINS AND NUTS ARE SUPPLIED BUT NOT ASSEMBLED AS SHOWN FOR ILLUSTRATION.

ORDER CODE: (COAX CRIMP CONTACTS ONLY) M80-400000FP-XX-XXX-00-000 TOTAL No. OF CONTACTS 02 TO 12 SPECIAL CONTACTS 305 = COAX CONTACT 2.00mm CRIMP M80-305

	_					
	MGP	4	16.01.18	21020		
	NAME	188.	DATE	C/NOT		
	APPROVED: MGP					
	CHECKED: SB					
	DRAWN: C.PENROSE					
	CUSTOMER REF.:					
	ASSEM	MBLY (ORG:			

www.harwin.com

technical@harwin.com

THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER SET OUT HEREON ARE MATIER SET OUT HEREON ARE CONFIDENTIAL AND COPYRIGHT PROPERTY OF THE HARWIN GROUP AND MUST NOT BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING, TENDERING OR FOR ANY 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

DATAMATE MIX-TEK FEMALE ASSEMBLY WITH BOARDMOUNT GUIDE PINS

DRAWING NUMBER:

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

Customer Information Sheet

DRAWING No.: M80-4000000FP-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SPECIFICATIONS: POWER CRIMP & SOLDER CONTACTS ONLY M80-328/329 M80-325/326/327 MATERIAL: x No. OF CONTACTS x No. OF CONTACTS

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 = $100\text{M}\Omega$ MIN POWER CONTACT:

CONTACT RESISTANCE = $6m\Omega$ MAX

CURRENT RATING = M80-325 = 20A MAX WITH I2AWG M80-326 = 15A MAX WITH 14AWG M80-327 = IOA MAX WITH I6AWG

M80-328 = 8A MAX WITH 18AWG M80-329 = 5A MAX WITH 20AWGM80-32A = 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 = I5N MAXWITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

DIMENSION

DIM 'A'

DIM 'B

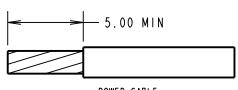
DIM 'C'

TEMPERATURE RANGE: M80-325/326/327/328/329/

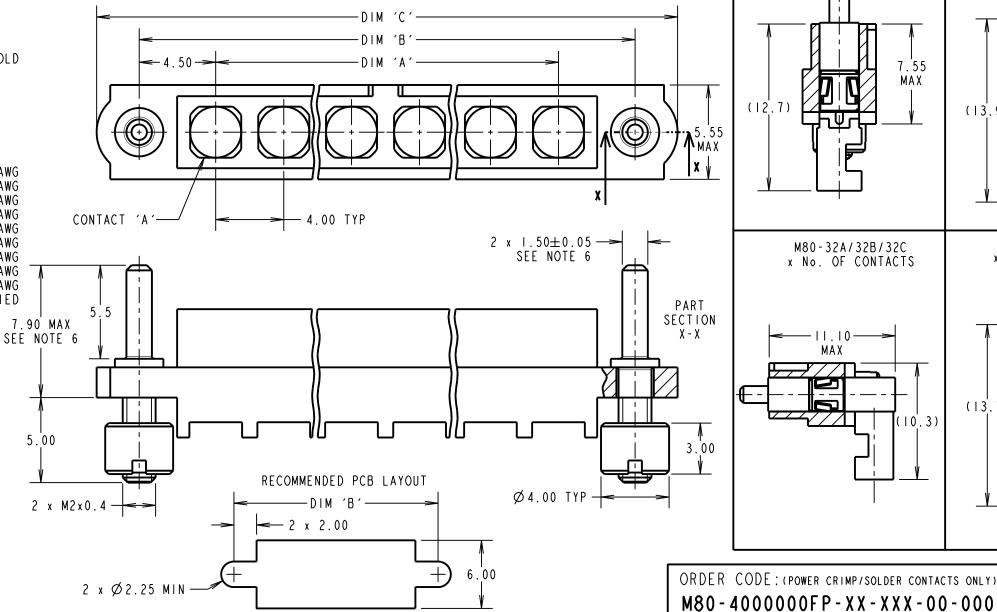
 $32A/32B/32C = -55^{\circ}C TO + 125^{\circ}C$

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

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)



POWER CABLE STRIPPING DIMENSIONS





- CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
- 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.
- INSTRUCTION SHEETS ARE AVAILABLE.
- THIS ASSEMBLY CAN ONLY MATE WITH MP MALE FIXINGS
- GUIDE PINS AND NUTS ARE SUPPLIED BUT NOT ASSEMBLED AS SHOWN FOR ILLUSTRATION.

www.harwin.com technical@harwin.com

THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER SET OUT HEREON ARE MATIER SET OUT HEREON ARE CONFIDENTIAL AND COPYRIGHT PROPERTY OF THE HARWIN GROUP AND MUST NOT BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING, TENDERING OR FOR ANY

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

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

SEE ABOVE FINISH: SEE ABOVE

PF5 = POWER CONTACT 10AWG SOLDER M80-PF5

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

TITLE: DATAMATE MIX-TEK FEMALE ASSEMBLY WITH BOARDMOUNT GUIDE PINS

7.55

MAX

7.55

MAX

16.01.18 21020

C.PENROSE

C/NOTE

DATE

APPROVED: MGP

CUSTOMER REF.:

ASSEMBLY DRG:

CHECKED:

DRAWN:

DRAWING NUMBER:

7.55

MAX

M80-32A/32B/32C

x No. OF CONTACTS

11.10

MAX

(13.9)

(13.7)

10.3)

M80-PF5

x No. OF CONTACTS

(12.7)

M80-400000FP-XX-XXX-00-000 TOF.

MATERIAL:

TOTAL No. OF CONTACTS

02 TO 12

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-5000000FP-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

