Customer Information Sheet

DRAWING No.: M80-4000000F2-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

SPECIFICATIONS: MATERIAL:

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

BODY, SLEEVE, END PLUG = COPPER ALLOY

INNER CONTACT, LATCHING COLLAR = BERYLLIUM COPPER

INSULATOR = PTFE JACKSCREW. CIRCLIP = STAINLESS STEEL

FINISH:

COAX CONTACT

BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD

LATCHING COLLAR: = NICKEL

ELECTRICAL:

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:

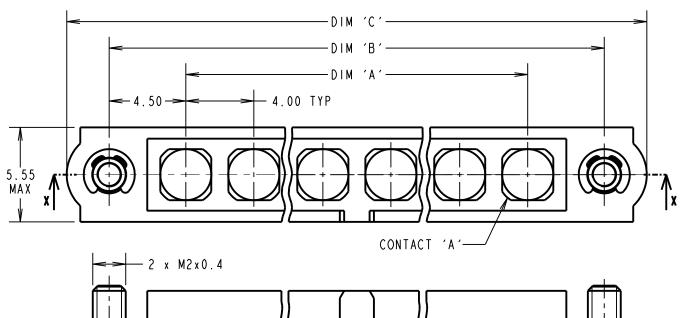
TEMPERATURE RANGE = -55°C TO +125°C

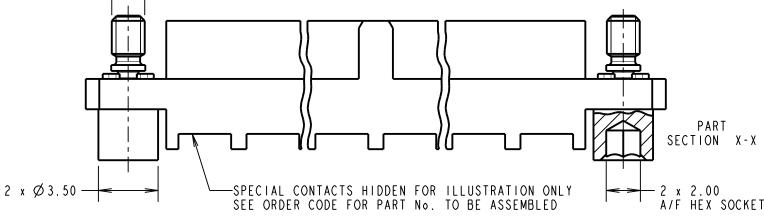
PACKING:

BAG

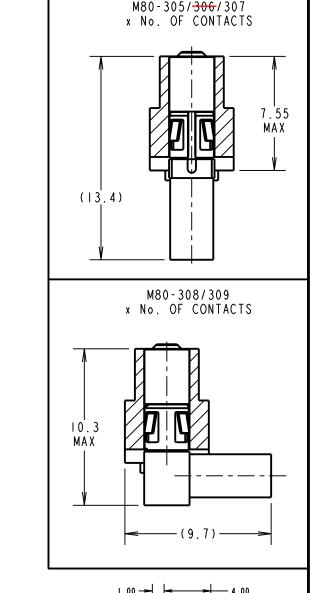
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

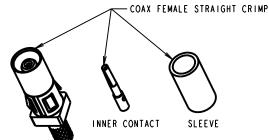
COAX CRIMP AND SOLDER CONTACTS ONLY





90° COAX CRIMP









TOTAL No. OF CONTACTS: _ 02 TO 12

SPECIAL CONTACTS: 305 = COAX CONTACT CRIMP 2.0mm M80-305 -306 = COAX CONTACT CRIMP 2.4mm M80-306 307 = COAX CONTACT CRIMP 2.7mm M80-307

308 = 90° COAX CONTACT CRIMP/SOLDER 2.0mm M80-308 309 = 90° COAX CONTACT CRIMP/SOLDER 2.7mm M80-309

M80-400000F2-XX-XXX-00-000

NOTES: I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.

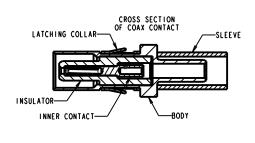
2. COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, INSULATOR AND LATCHING COLLAR ARE PRE-ASSEMBLED. SLEEVE AND INNER CONTACT ARE SEPARATE.

FOR EXTRA COAX CONTACTS, USE PART NUMBER M80-305/306/307/308/309

4. RECOMMENDED HAND CRIMP TOOL FOR COAX INNER CONTACT = Z80-292 WITH POSITIONER Z80-291 AND RECOMMENDED HAND CRIMP TOOL AND DIE SET FOR COAX SLEEVE = Z80-293.

COAX CONTACT EXTRACTION TOOL = Z80-290.

6. INSTRUCTION SHEETS ARE AVAILABLE.



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: CONNNECTOR WITH 08 COAX CONTACTS		

M80-400000F2-08-305-00-000

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

DIM 'C' = 42.0mm

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

TOLERANCES

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

S/AREA:

TITLE:

90° COAX STRIPPING

DATAMATE MIX-TEK FEMALE ASSEMBLY WITH HEX SOCKET J/SCREWS

DRAWING NUMBER:

COAX STRIPPING

ISS.

CUSTOMER REF.:

ASSEMBLY DRG:

APPROVED:

CHECKED:

DRAWN:

04.12.19 21540

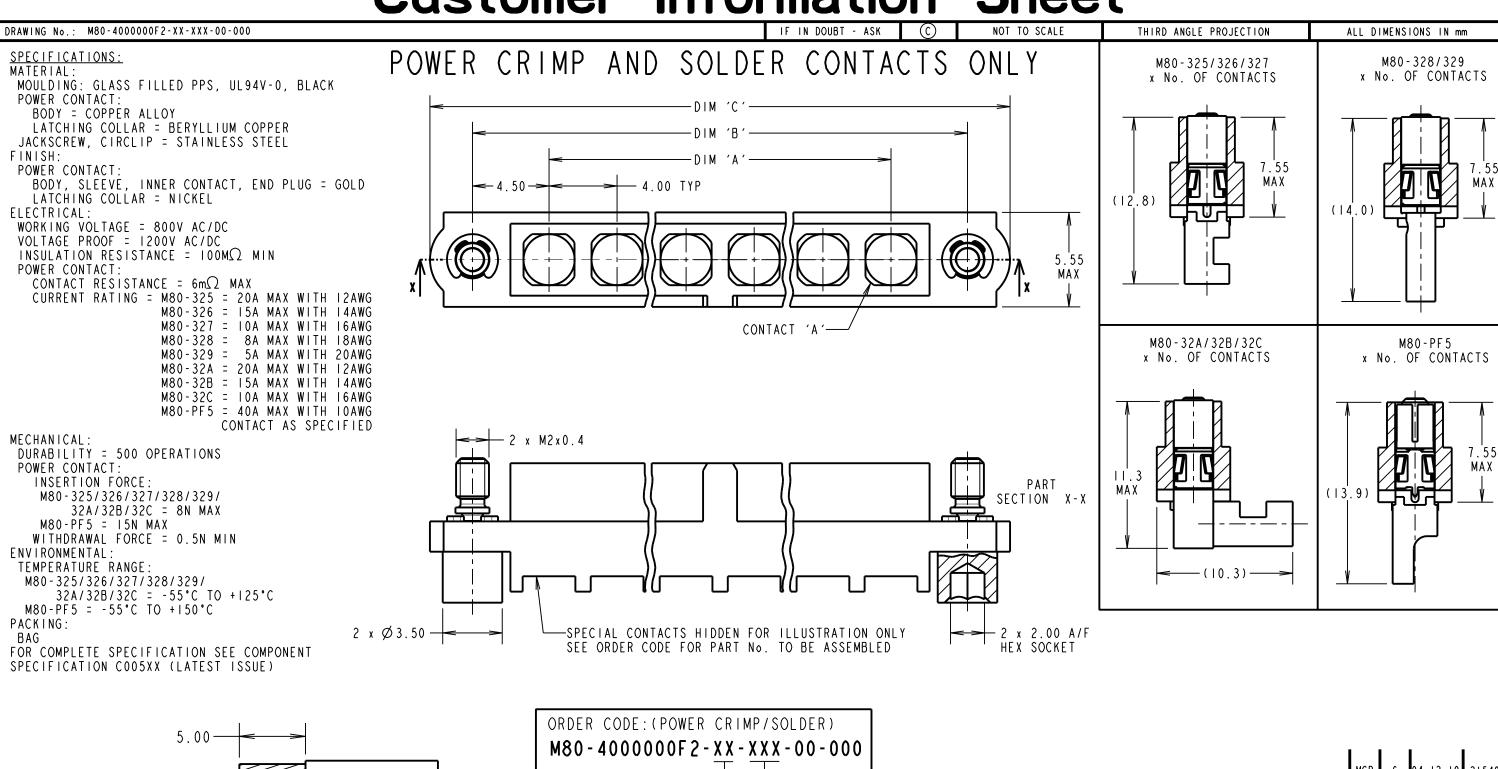
C.PENROSE

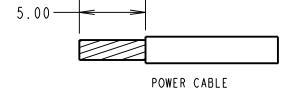
C/NOTE

DATE

MGP

Customer Information Sheet

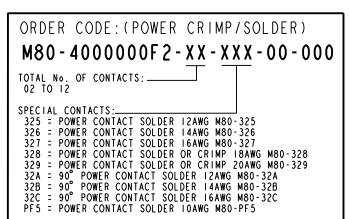




STRIPPING DIMENSIONS

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: CONNNECTOR WITH 08 POWER CONTACTS. M80-400000F2-08-305-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0 mm



- I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
- FOR EXTRA POWER CONTACTS, USE PART NUMBERS: M80-325/326/327/328/329/32A/32B/32C/PF5.
- 3. POWER CONTACT EXTRACTION TOOL = Z80-290.
- 4. INSTRUCTION SHEETS ARE AVAILABLE.
- RECOMMENDED HAND CRIMP TOOL FOR CONTACTS M80-328/329 = Z80-294 WITH POSITIONER Z80-295.
- 6. POWER CONTACT WIRE, STRIP BY 5.00mm MINIMUM.

04.12.19 21540 DATE C/NOTE APPROVED: MGP CHECKED: DRAWN: C.PENROSE CUSTOMER REF.: ASSEMBLY DRG:



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

UNLESS STATED

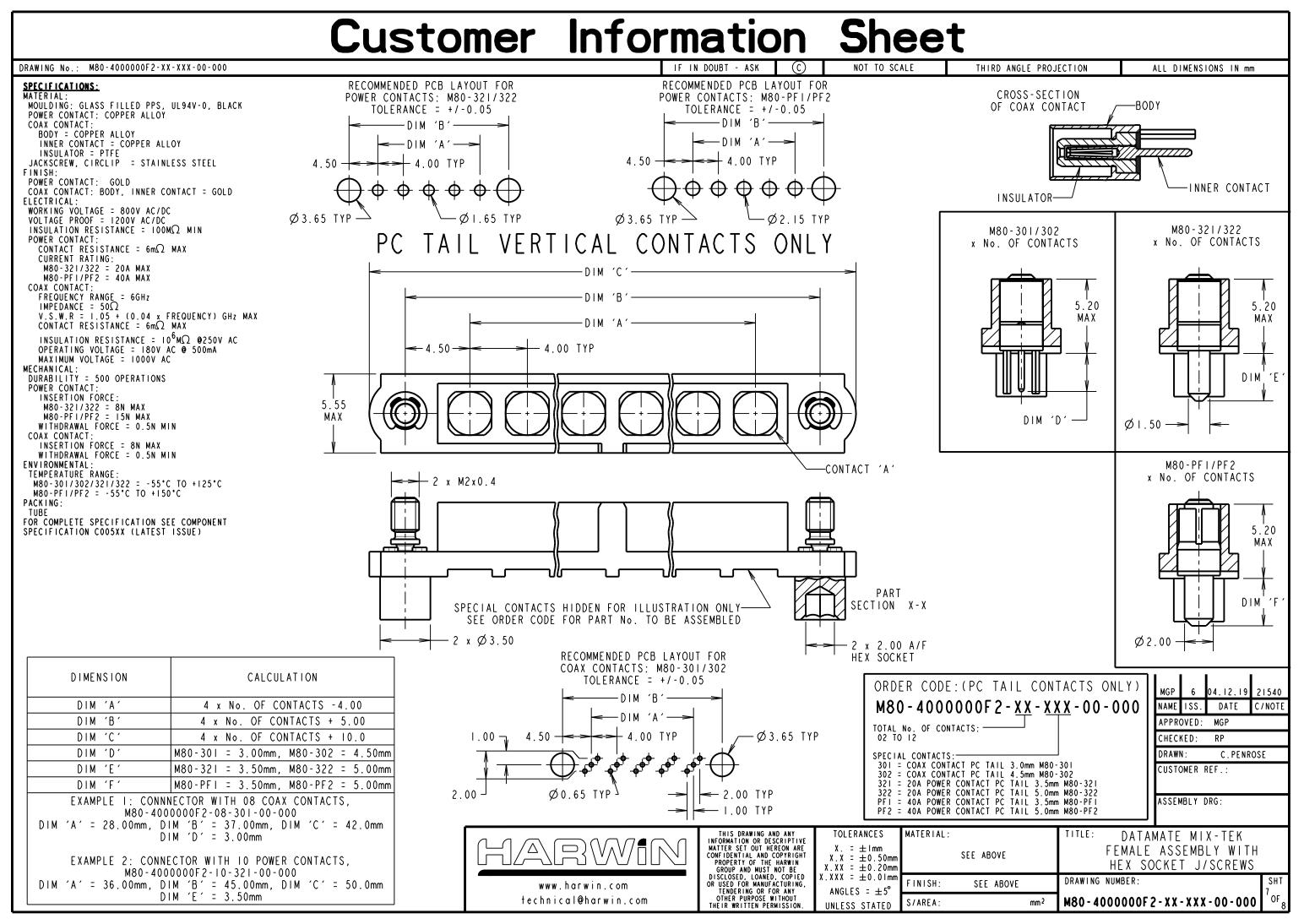
MATERIAL: SEE ABOVE FINISH: SEE ABOVE

S/AREA:

DATAMATE MIX-TEK FEMALE ASSEMBLY WITH HEX SOCKET J/SCREWS

DRAWING NUMBER:

| M80-4000000F2-XX-XXX-00-000 | [°] OF₈



Customer Information Sheet

DRAWING No.: M80-4000000F2-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

SPECIFICATIONS: MATERIAL: MOULDING: GLASS FILLED PPS, UL94V-0, BLACK POWER CONTACT: COPPER ALLOY COAX CONTACT: BODY = COPPER ALLOY INNER CONTACT = COPPER ALLOY

INSULATOR = PTFE

JACKSCREW, CIRCLIP = STAINLESS STEEL FINISH: POWER CONTACT: GOLD

COAX CONTACT: BODY, INNER CONTACT = GOLD ELECTRICAL:

WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC INSULATION RESISTANCE = 100MΩ MIN POWER CONTACT: CONTACT RESISTANCE = 6mΩ MAX CURRENT RATING:

M80-323/324 = 20A MAX M80-PF3/PF4 = 40A MAX MECHANICAL: DURABILITY = 500 OPERATIONS

POWER CONTACT:
INSERTION FORCE:
M80-323/324 = 8N MAX
M80-PF3/PF4 = 15N MAX

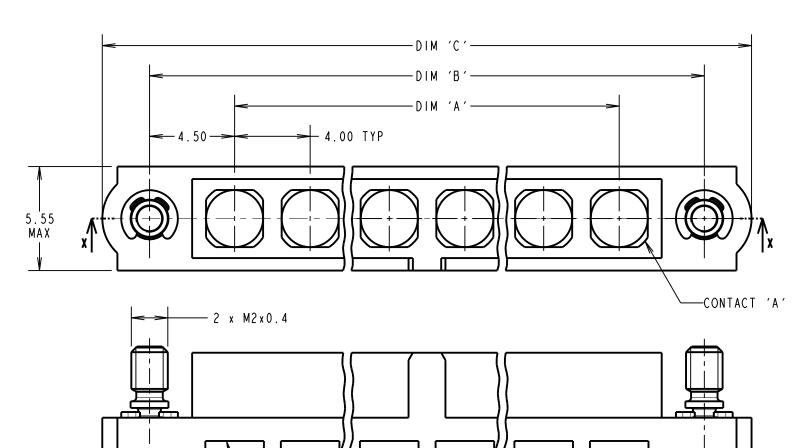
WITHDRAWAL FORCE = 0.5N MIN **ENVIRONMENTAL:** TEMPERATURE RANGE:

M80-323/324 = -55°C TO +125°C M80-PF3/PF4 = -55°C TO +150°C

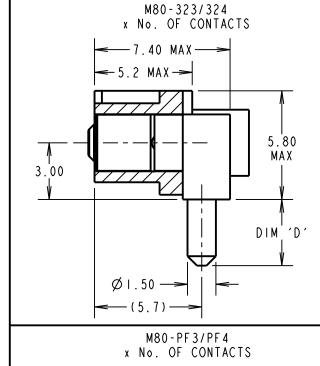
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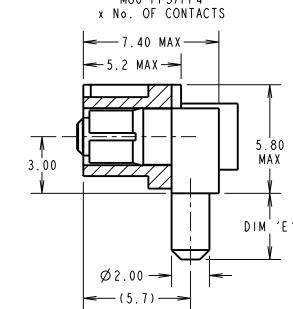
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

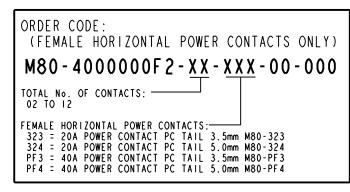
PC TAIL HORIZONTAL CONTACTS ONLY



-SPECIAL CONTACTS HIDDEN FOR ILLUSTRATION ONLY SEE ORDER CODE FOR PART No. TO BE ASSEMBLED







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
DIM 'D'	M80-323 = 3.50mm, M80-324 = 5.00mm
DIM 'E'	M80-PF3 = 3.50mm, M80-PF4 = 5.00mm
EXAMPLE 1. CONNECTO	DR WITH IN POWER CONTACTS 3 5mm

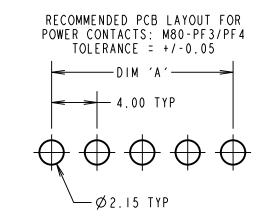
SECTION X-X

M80-400000F2-I0-323-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm DIM 'D' = 3.50mm

RECOMMENDED PCB LAYOUT FOR POWER CONTACTS: M80-323/324 TOLERANCE = +/-0.05-DIM 'A'-4.00 TYP Ø1.65 TYP

2 x 2.00 A/F

HEX SOCKET



04.12.19 21540 NAME ISS. DATE C/NOTE APPROVED: MGP CHECKED: RP DRAWN: C.PENROSE CUSTOMER REF.: ASSEMBLY DRG:

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TOLERANCES X. = ±1mm X.X = ±0.50mm X.XX = ±0.20mm .XXX = ±0.01mm

 $2 \times \emptyset 3.50 -$

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

DATAMATE MIX-TEK FEMALE ASSEMBLY WITH HEX SOCKET J/SCREWS

DRAWING NUMBER:

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ANGLES = ±5° UNLESS STATED

S/AREA:

M80-4000000F2-XX-XXX-00-000 OF.