Customer Information Sheet DRAWING No.: M80-5000000ME-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm <u>SPECIFICATIONS:</u> CRIMP AND SOLDER CONTACTS ONLY M80-315/316/317 MATERIAL: x No. OF CONTACTS MOULDING: GLASS FILLED PPS, UL94V-0, BLACK COAX CONTACT: BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY LATCHING COLLAR = BERYLLIUM COPPER INSULATOR = PTFE 4.50 → MAX IOILOK RETAINER, NUT = STAINLESS STEEL (13.4)FINISH: COAX CONTACT: BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD LATCHING COLLAR = NICKEL MAX **ELECTRICAL:** WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC INSULATION RESISTANCE = $100M\Omega$ MIN M80-318/319 COAX CONTACT: CONTACT x No. OF CONTACTS FREQUENCY RANGE = 6GHz 0.50 IMPEDANCE = 50Ω 10.30 V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX CONTACT RESISTANCE = $6m\Omega$ MAX MAX INSULATION RESISTANCE = $10^{6} \text{M}\Omega$ @250V AC 5.60 OPERATING VOLTAGE = 180V AC @ 500mA MAXMAXIMUM VOLTAGE = 1000V AC MECHANICAL: DURABILITY = 500 OPERATIONS COAX CONTACT: INSERTION FORCE = 8N MAX WITHDRAWAL FORCE = 0.5N MIN 5.00 ENVIRONMENTAL: (3.6)PART TEMPERATURE RANGE = -55°C TO +125°C SECTION X-X 1.00 -PACKING: BAG $2 \times M2 \times 0.4$ FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE) −Ø4.00 -> 2.00 TYP → DIMENSIONS 2 x M2 SLOTTED NUTS-SUPPLIED LOOSE IN A BAG 1.00 --90° COAX CRIMP 3,00 M80-318/319 \emptyset 2.20 -COAX CRIMP TYP 90° COAX STRIPPING M80-315/316/317 RECOMMENDED PCB 6.00 DIMENSIONS CUT OUT 12.08.15 ORDER CODE: (COAX CRIMP CONTACTS) CRIMP/SOLDER NOTES: DATE C/NOT I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE. M80-500000ME-XX-XXX-00-000 2. COAX CONTACT IS SUPPLIED AS A KIT OF PARTS; BODY, MAIN INSULATOR, S.BENNETT -SLEEVE INNER CONTACT AND LATCHING COLLAR ARE PRE-ASSEMBLED AND SLEEVE TOTAL No. OF CONTACTS -CHECKED: M.PLESTED AND INSULATED END PLUG ASSEMBLY ARE SEPERATE. INNER CONTACT DRAWN: S.BENNETT FOR EXTRA COAX CONTACTS , USE PART NUMBERS M80-315/316/317/318/319 COAX CONTACT EXTRACTION TOOL = Z80-290. CUSTOMER REF.: DIMENSION CALCULATION 5. RECOMMENDED HAND CRIMP TOOL FOR INNER COAX CONTACT = Z80-292 WITH POSITIONER Z80-291. RECOMMENDED HAND CRIMP TOOL AND DIE SET DIM 'A' 4 x No. OF CONTACTS - 4.00 318 = COAX CONTACT 2.00mm HORIZ' CRIMP M80-318 319 = COAX CONTACT 2.70mm HORIZ' CRIMP M80-319 ASSEMBLY DRG: FOR SLEEVE = Z80-293 6. INSTRUCTION SHEETS ARE AVAILABLE. DIM 'B' 4 x No. OF CONTACTS + 5.00 THIS DRAWING AND ANY TOLERANCES MATERIAL: DATAMATE MIX-TEK DIM 'C' 4 x No. OF CONTACTS + 10.00 THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER 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 X. = ±1mm MALE ASSY WITH SEE ABOVE X.X = ±0.50mm EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS, IOILOK RETAINER X.XX = ±0.10mm M80-500000ME-08-315-00-000 $.XXX = \pm 0.01$ mm DRAWING NUMBER: FINISH DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm www.harwin.com SEE ABOVE ANGLES = ±5° M80-500000ME-XX-XXX-00-000 "OF, technical@harwin.com S/AREA: UNLESS STATED THEIR WRITTEN PERMISSION

Customer Information Sheet

DRAWING No.: M80-5000000ME-XX-XXX-00-000 NOT TO SCALE IF IN DOUBT - ASK THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

CRIMP AND SOLDER CONTACTS ONLY

SPECIFICATIONS:

MATERIAL: MOULDING: GLASS FILLED PPS, UL94V-O, BLACK

POWER CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY

LATCHING COLLAR = BERYLLIUM COPPER

INSULATOR = PTFE IOILOK RETAINER, 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 = M80-335 = 20A MAX WITH 12AWG

M80-336 = 15A MAX WITH 14AWG M80-337 = IOA MAX WITH I6AWG

M80-338 = 8A MAX WITH 18AWG M80-339 = 5A MAX WITH 20AWG M80-PM5 = 40A MAX WITH IOAWG

CONTACT AS SPECIFIED

MECHANICAL:

DURABILITY = 500 OPERATIONS

POWER CONTACT:

INSERTION FORCE:

M80-335/336/337/338/339 = 8N MAX

M80-PM5 = 15N MAX

WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

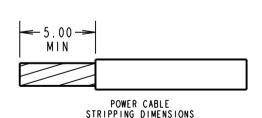
TEMPERATURE RANGE

M80-335/336/337/338/339 = -55°C TO +125°C

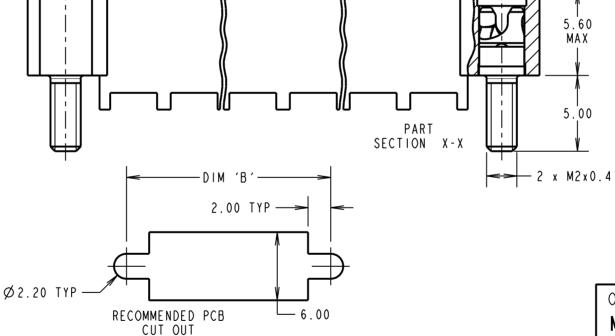
 $M80-PM5 = -55^{\circ}C TO + 150^{\circ}C$

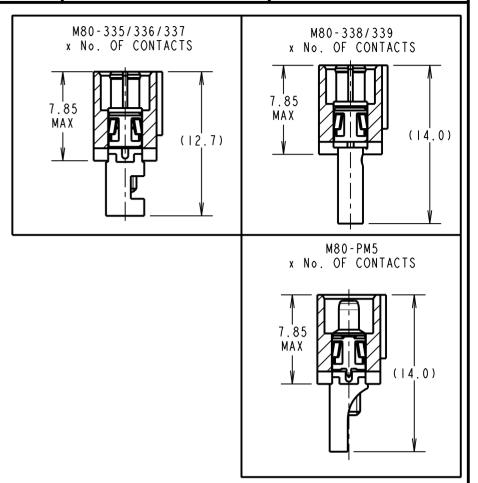
PACKING:

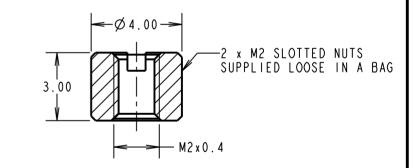
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

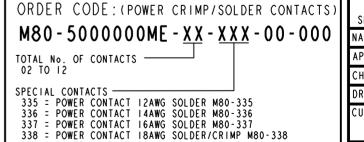


5.55 MAXCONTACT 'A 0.50 4.00 TYP









339 = POWER CONTACT 20AWG SOLDER/CRIMP M80-339
PM5 = POWER CONTACT 10AWG SOLDER M80-PM5



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CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE

FOR EXTRA POWER CONTACTS USE PART NUMBERS M80-335/336/337/338/339/PM5

POWER CONTACT EXTRACTION TOOL = Z80-290

RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 338/339 = Z80-294 AND POSITIONER Z80-295

5. 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 + 10.00		
DIN C	4 x NV. 01 CONTACTO : 10.00		

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-500000ME-10-335-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm



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OTHER PURPOSE WITHOUT
THEIR WRITTEN PERMISSION

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

UNLESS STATED

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

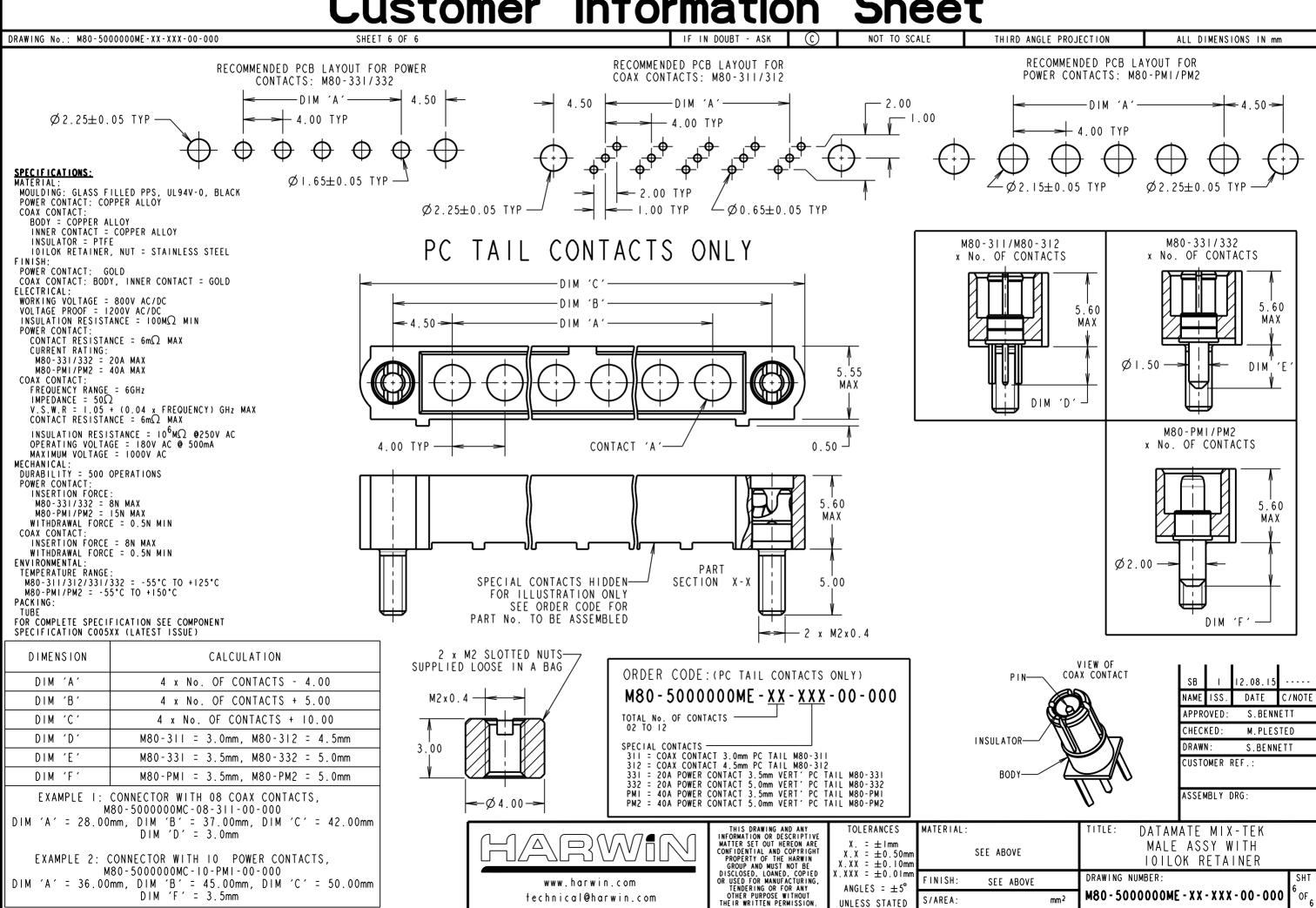
S/AREA:

DATAMATE MIX-TEK MALE ASSY WITH IOILOK RETAINER

DRAWING NUMBER:

M80-5000000ME-XX-XXX-00-000 OF.

Customer Information Sheet



S/AREA:

UNLESS STATED

mm²