Customer Information Sheet DRAWING No.: M80-40000000-XX-XXX-00-000 THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SPECIFICATIONS: M80-305/306/307 M80-308/309 ·DIM 'C' MATERIAL: x No. OF CONTACTS x No. OF CONTACTS MOULDING: GLASS FILLED PPS, UL94V-0, BLACK POWER & COAX CONTACT: BODY = COPPER ALLOY DIM 'A' -4.50 INNER CONTACT, LATCHING COLLAR = BERYLLIUM COPPER INSULATOR = PTFE 7.55 7.55 INISH: MAXMAXPOWER & COAX CONTACT 5.55 BODY, SLEEVE, INNER CONTACT = GOLD MAX (DIM LATCHING COLLAR: = NICKEL ELECTRICAL: WORKING VOLTAGE = 120V AC/DC VOLTAGE PROOF = 360V AC/DC INSULATION RESISTANCE = $100M\Omega$ MIN POWER CONTACT: CONTACT RESISTANCE = $6m\Omega$ MAX ALL COAX CONTACTS ONLY | ALL 90°COAX CONTACTS ONLY CURRENT RATING = M80-325 20A MAX 12AWG M80-326 I5A MAX I4AWG M80-325/326/327 M80-32A/32B/32C M80-327 IOA MAX 16AWG x No. OF CONTACTS x No. OF CONTACTS M80-328 8A MAX 18AWG M80-329 5A MAX 20AWG M80-32A 20A MAX 12AWG M80-32B I5A MAX I4AWG 7.55 M80-32C IOA MAX I6AWG 7.55 CONTACT AS SPECIFIED MAX MAX COAX CONTACT: FREQUENCY RANGE = 6GHz (DIM SPECIAL CONTACTS HIDDEN FOR ILLUSTRATION ONLY IMPEDANCE = 50 Ω SEE ORDER CODE FOR PART No. TO BE ASSEMBLED V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAXCONTACT RESISTANCE 6 m Ω MAX 90° COAX CRIMP INSULATION RESISTANCE = $10^6 \text{M}\Omega$ @250V AC <-- D|M 'G' -= OPERATING VOLTAGE = 180V AC @ 500mA 1.00 -MAXIMUM VOLTAGE = 1000V AC ALL POWER CONTACTS ONLY ALL 90° POWER CONTACTS ONLY MECHANICAL: DURABILITY = 500 OPERATIONS M80-328/329 POWER & COAX CONTACT: x No. OF CONTACTS INSERTION FORCE = 5N MAX WITHDRAWAL FORCE = 0.5N MIN COAX STRIPPING COAX FEMALE STRAIGHT CRIME ENVIRONMENTAL DIMENSIONS 1.70 SOLDER/CRIMP TEMPERATURE RANGE = -55°C TO +125°C 7.55 PACKING: MAX BAG LATCHING COLLAR 90° POWER FOR COMPLETE SPECIFICATION SEE COMPONENT -SLEEVE SPECIFICATION COOSXX (LATEST ISSUE) SOLDER (DIM STRAIGHT CRIMP/SOLDER CONTACTS ONLY INNER CONTACT SLEEVE INSIII ATOR ORDER CODE: (CRIMP/SOLDER) INNER CONTACT DIMENSION CALCULATION M80-40000000-XX-XXX-00-000 ALL POWER CONTACTS ONLY I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE. 4 x No. OF CONTACTS -4.00 DIM 'A' TOTAL No. OF CONTACTS ---COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY. INSULATOR AND LATCHING COLLAR ARE PRE-ASSEMBLED AND SLEEVE AND INNER CONTACT ARE SEPARATE. 4 x No. OF CONTACTS + 5.00 DIM 'B' 07.04.11 11222 3. FOR EXTRA COAX CONTACTS. USE PART NUMBER M80-305/306/307/308/309 SPECIAL CONTACTS DIM 'C' 4 x No. OF CONTACTS + 10.00 305 = COAX CONTACT CRIMP 2.0mm M80-305 306 = COAX CONTACT CRIMP 2.4mm M80-306 307 = COAX CONTACT CRIMP 2.7mm M80-307 FOR EXTRA POWER CONTACTS, USE PART NUMBER M80-325/326/327/328/329, NAME C/NOTI DATE DIM 'D' M80-305/306/307=13.4mm 32A/32B/32C. APPROVED: S. MCCULLAGH RECOMMENDED HAND CRIMP TOOL FOR COAX INNER CONTACT = Z80-292 WITH 308 = 90° COAX CONTACT CRIMP 2.7mm M80-308 309 = 90° COAX CONTACT CRIMP 2.7mm M80-309 325 = POWER CONTACT SOLDER 12AWG M80-325 326 = POWER CONTACT SOLDER 14AWG M80-326 DIM 'E' M80-325/326/327=12.7mm POSITIONER Z80-291 AND RECOMMENDED HAND CRIMP TOOL AND DIE SET CHECKED: M. G. PLESTED DIM 'F' M80 - 308 / 309 = 9.7 mmFOR COAX SLEEVE = Z80-293. DRAWN: C.PENROSE RECOMMENDED HAND CRIMP TOOL FOR M80-328/329 = Z80-294 WITH POSITIONER Z80-295. DIM 'G' M80-32A/32B/32C = 10.3mm327 = POWER CONTACT SOLDER 16AWG M80-327 POWER AND COAX CONTACT EXTRACTION TOOL = Z80-290 CUSTOMER REF.: 328 = POWER CONTACT SOLDER/CRIMP 18AWG M80-328 329 = POWER CONTACT SOLDER/CRIMP 20AWG M80-329 32A = 90° POWER CONTACT SOLDER 12AWG M80-32A 32B = 90° POWER CONTACT SOLDER 14AWG M80-32B DIM 'H' M80 - 328 / 329 = 13.9 mmPOWER CONTACT WIRE, STRIP BY 5.00mm MINIMUM INSTRUCTION SHEETS ARE AVAILABLE. EXAMPLE 1: CONNNECTOR WITH 08 COAX CONTACTS. ASSEMBLY DRG: 9. FOR EXAMPLE OF ALL COAX SPECIAL CONTACTS ORDER CODE SEE EXAMPLE I IN TABLE M80-40000000-08-305-00-000 32C = 90° POWER CONTACT SOLDER 16AWG M80-32C IO. FOR EXAMPLE OF ALL POWER SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 2 IN TABLE. DIM 'A' = 28.00 mm, DIM 'B' = 37.00 mm, 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 DIM 'C' = 42.00mm, DIM 'D' = 13.4mmTOLERANCES MATERIAL: JACKSCREW DATAMATE X. = ±1mm MIXED TECHNOLOGY FEMALE ASSY EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, X.X = ±0.25mn SEE ABOVE WITHOUT JACKSCREWS FITTED X.XX = ±0.10mm M80-40000000-10-325-00-000 HARWIN Europe (UK HARWIN Asia $X.XXX = \pm 0.01$ mm DRAWING NUMBER: DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, EL: 603 893 5376 TEL: 023 9231 4545 TEL: +65 6 779 4909 FINISH: SEE ABOVE AX: 603 893 5396 FAX: 023 9231 4590 FAX: +65 6 779 3868 ANGLES = ±5° DIM 'C' = 50.00mm, DIM 'E' = 12.7mm M80-40000000-XX-XXX-00-000 | OF mis@harwin.co.uk mis@harwin.com.sg S/AREA: mis@harwin.com UNLESS STATED

THEIR WRITTEN PERMISSION

Customer Information

NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm DRAWING No.: M80-40000000-XX-XXX-00-000

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

INNER CONTACT = BERYLLIUM COPPER INSULATOR = PTFE

FINISH:

POWER & COAX CONTACT

BODY, SLEEVE, INNER CONTACT = GOLD ELECTRICAL:

WORKING VOLTAGE = 120V AC/DC VOLTAGE PROOF = 360V AC/DC INSULATION RESISTANCE = $100M\Omega$ MIN

POWER CONTACT: CONTACT RESISTANCE = $6m\Omega$ MAX

CURRENT RATING = 20A MAX COAX CONTACT:

FREQUENCY RANGE = 6GHz IMPEDANCE = 50 Ω

V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX CONTACT RESISTANCE 6 m Ω MAX

INSULATION RESISTANCE = $10^6 \text{M}\Omega$ @250V AC OPERATING VOLTAGE = 180V AC @ 500mA MAXIMUM VOLTAGE = 1000V AC

MECHANICAL: DURABILITY = 500 OPERATIONS POWER & COAX CONTACT:

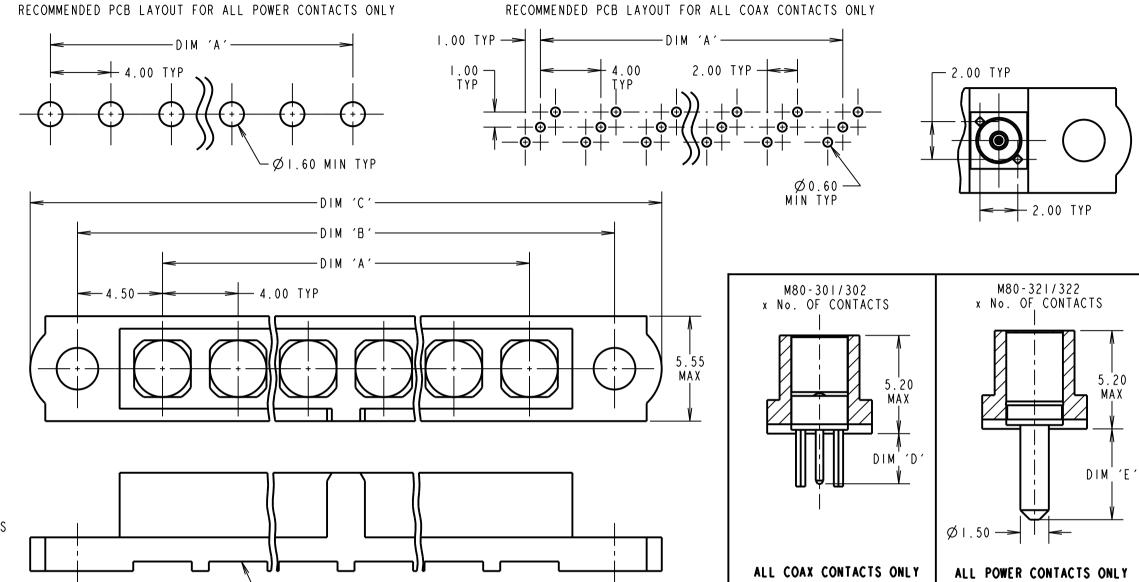
INSERTION FORCE = 5N MAX WITHDRAWAL FORCE = 0.5N MIN ENVIRONMENTAL

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

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

NOTES:

- I. FOR EXAMPLE OF ALL COAX SPECIAL CONTACTS ORDER CODE SEE EXAMPLE I IN TABLE
- 2. FOR EXAMPLE OF ALL POWER SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 2 IN TABLE.



PC TAIL VERTICAL CONTACTS ONLY

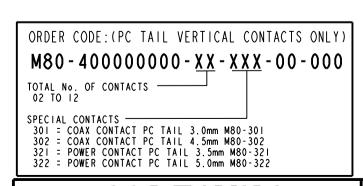
DIMENSION	CALCULATION			
DIM 'A'	4 x No. OF CONTACTS -4.00			
DIM 'B'	4 x No. OF CONTACTS + 5.00			
DIM 'C'	4 x No. OF CONTACTS + 10.00			
DIM 'D'	M80-301 = 3.00mm, M80-302 = 4.50mm			
DIM 'E'	M80-321 = 3.50mm, M80-322 = 5.00mm			
EVANDLE L. CONNECTOD WITH AC COAY CONTACTO				

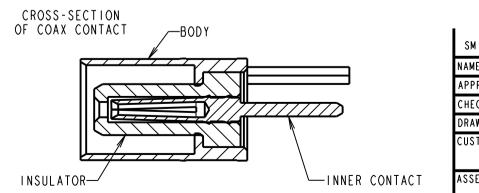
EXAMPLE I: CONNNECTOR WITH 08 COAX CONTACTS, M80-40000000-08-301-00-000

DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm DIM'D' = 3.00mm

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-400000000-10-321-00-000

DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm DIM 'E' = 3.50 mm





SM	3	07.04.11	11222		
NAME	ISS.	DATE	C/NOTE		
APPROVED: S. MCCULLAGH					
CHECKED: M. G. PLESTED					
DRAWN: C.PENROSE					
CUSTOMER REF.:					
ASSEM	IBLY (RG:			

HARWIN USA EL: 603 893 5376 mis@harwin.com

HARWIN Europe (UK TEL: 023 9231 4545 TEL: +65 6 779 4909 FAX: 603 893 5396 FAX: 023 9231 4590 FAX: +65 6 779 3868 mis@harwin.co.uk

HARWIN Asia mis@harwin.com.sg

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

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
THER WRITTEN PERMISSION

X. = ±1mm $X.X = \pm 0.25$ mm X.XX = ±0.10mm $X.XXX = \pm 0.01$ mm ANGLES = ±5° UNLESS STATED

TOLERANCES

MATERIAL: FINISH:

S/AREA:

SEE ABOVE SEE ABOVE

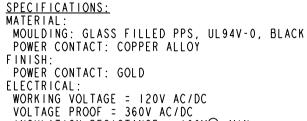
JACKSCREW DATAMATE MIXED TECHNOLOGY FEMALE ASSY WITHOUT JACKSCREWS FITTED

DRAWING NUMBER: M80-400000000-XX-XXX-00-000 OF.

Customer Information

NOT TO SCALE DRAWING No.: M80-40000000-XX-XXX-00-000 THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

PC TAIL HORIZONTAL CONTACTS ONLY



INSULATION RESISTANCE = $100M\Omega$ MIN POWER CONTACT:

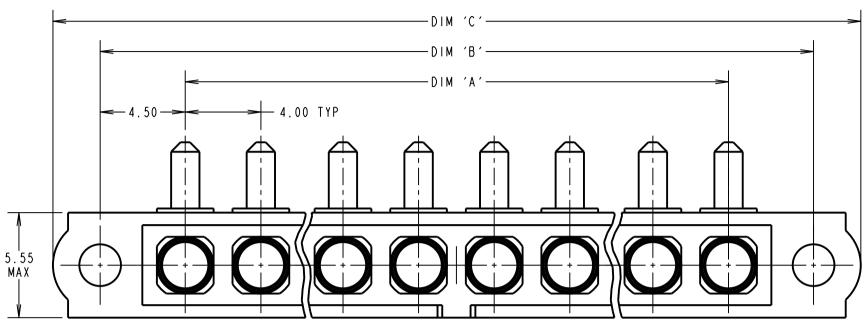
CONTACT RESISTANCE = 6 m Ω MAX CURRENT RATING = 20A MAX MECHANICAL:

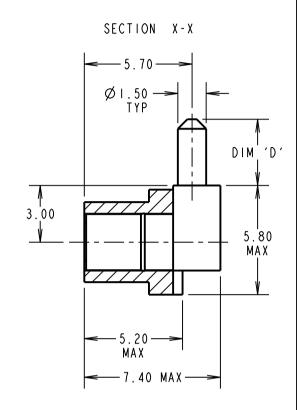
DURABILITY = 500 OPERATIONS POWER CONTACT: INSERTION FORCE = 5N MAX WITHDRAWAL FORCE = 0.5N MIN

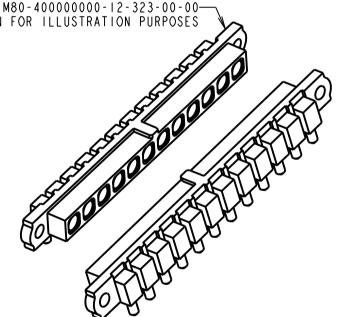
ENVIRONMENTAL: TEMPERATURE RANGE = -55°C TO +125°C PACKING:

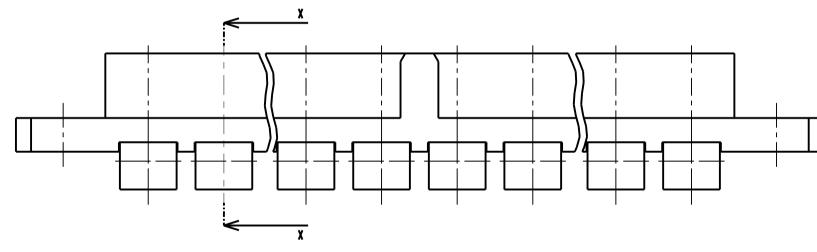
TUBE FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COOSXX (LATEST ISSUE)

M80-400000000-12-323-00-00-SHOWN FOR ILLUSTRATION PURPOSES









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
DIM 'D'	M80-323 = 3.50mm, M80-324 = 5.00mm

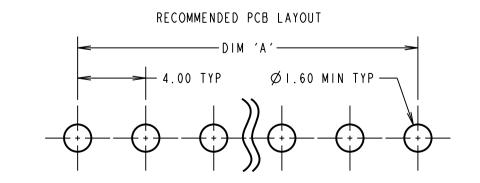
EXAMPLE 1: CONNECTOR WITH 10 POWER CONTACTS 3.5mm, M80-40000000-10-323-00-000

DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm DIM 'D' = 3.50mm

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS 5.0mm. M80-400000000-10-324-00-000

DIM'A' = 36.00mm, DIM'B' = 45.00mm, DIM'C' = 50.00mmDIM 'D' = 5.00mm

ORDER CODE: (PC TAIL HORIZONTAL CONTACTS ONLY)					
M80-400000000-XX-XXX-00-000					
TOTAL No. OF CONTACTS					
FEMALE HORIZONTAL POWER CONTACTS 323 = POWER CONTACT PC TAIL 3.5mm M80-323 324 = POWER CONTACT PC TAIL 5.0mm M80-324					



SM	3	07.04.11	11222		
NAME	ISS.	DATE	C/NOTE		
APPROVED: S. MCCULLAGH					
CHECKED: M. G. PLESTED					
DRAWN: C.PENROSE					
CUSTOMER REF.:					
ASSEN	MBLY (ORG:			

HARWIN USA EL: 603 893 5376

HARWIN Europe (UK:

HARWIN Asia TEL: 023 9231 4545 TEL: +65 6 779 4909 FAX: 603 893 5396 FAX: 023 9231 4590 FAX: +65 6 779 3868 mis@harwin.com mis@harwin.co.uk mis@harwin.com.sg

THIS DRAWING AND ANY
INFORMATION OR DESCRIPTIVE
MATTER SET OUT HEREON ARE
COMFIDENTIAL 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.

 $X.XXX = \pm 0.01$ mm ANGLES = ±5° UNLESS STATED

MATERIAL: TOLERANCES X. = ±1mm X.X = ±0.25mm X.XX = ±0.10mm

FINISH: S/AREA:

JACKSCREW DATAMATE SEE ABOVE

SEE ABOVE

MIXED TECHNOLOGY FEMALE ASSY WITHOUT JACKSCREWS FITTED

DRAWING NUMBER: M80-400000000-XX-XXX-00-000 6 OF