Customer Information Sheet DRAWING No.: M80-400000FG-XX-XXX-00-000 THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm CRIMP/SOLDER CONTACTS ONLY SPECIFICATIONS: M80-308/309 M80-305/306/307 MATERIAL: x No. OF CONTACTS x No. OF CONTACTS MOULDING: GLASS FILLED PPS, UL94V-0, BLACK POWER & COAX CONTACT: PART BODY = COPPER ALLOY SECTION Z-Z INNER CONTACT, LATCHING COLLAR = BERYLLIUM COPPER 7.55 INSULATOR = PTFE MAX 7.55 JACKSCREW, CIRCLIP: STAINLESS STEEL MAX **-**4.50÷ $2 \times M2 \times 0.4$ FINISH. POWER & COAX CONTACT BODY, SLEEVE, INNER CONTACT = GOLD LATCHING COLLAR: = NICKEL 'D' FIFCTRICAL: DIM WORKING VOLTAGE = 120V AC/DC VOLTAGE PROOF = 360V AC/DC 4.00 TYP 0.50 – D∣M ′F′–> INSULATION RESISTANCE = $100\text{M}\Omega$ MIN POWER CONTACT: CONTACT RESISTANCE = $6m\Omega$ MAX ALL 90°COAX CONTACTS ONLY ALL COAX CONTACTS ONLY CURRENT RATING = M80-325 20A MAX 12AWG, M80-326 15A MAX 14AWG M80-32A/32B/32C M80-325/326/327 M80-327 IOA MAX I6AWG. M80-328 8A MAX I8AWG. x No. OF CONTACTS x No. OF CONTACTS MAX M80-329 5A MAX 20AWG, M80-32A 20A MAX 12AWG, M80-32B 15A MAX 14AWG, M80-32C 10A MAX 16AWG, CONTACT AS SPECIFIED COAX CONTACT: 7.55 FREQUENCY RANGE = 6GHz MAX — 2 x M2x0.4-6q IMPEDANCE = 50Ω 11.50 $V.S.W.R = 1.05 + (0.04 \times FREQUENCY)$ GHz MAX MAX CONTACT RESISTANCE 6 mQ MAX INSULATION RESISTANCE = $10^6 \text{M}\Omega$ @250V AC DIM OPERATING VOLTAGE = 180V AC @ 500mA MAXIMUM VOLTAGE = 1000V AC 7.55 MECHANICAL: MAX - DIM 'G 11.80 DURABILITY = 500 OPERATIONS MAX POWER & COAX CONTACT: ALL 90° POWER CONTACTS ONLY ALL POWER CONTACTS ONLY INSERTION FORCE = 5N MAX SECTION Y-Y WITHDRAWAL FORCE = 0.5N MIN M80-328/329 ENVIRONMENTAL: 1.00 → - 4.00 x No. OF CONTACTS SPECIAL CONTACTS HIDDEN FOR ILLUSTRATION ONLY TEMPERATURE RANGE = -55°C TO +125°C SEE ORDER CODE FOR PART No. TO BE ASSEMBLED PACKING: 90° COAX CRIMP FOR COMPLETE SPECIFICATION SEE COMPONENT 2 x 2.00 A/F HEX SOCKET SPECIFICATION COOSXX (LATEST ISSUE) CROSS SECTION OF COAX CONTACT COAX STRIPPING RECOMMENDED PCB LAYOUT LATCHING COLLAR-1.70 -DIMENSIONS -SLEEVE $2 \times \emptyset 2.2$ DIM 7.55 MAX ORDER CODE: (CRIMP/SOLDER) INSULATOR-ALL POWER CONTACTS ONLY M80-400000FG-XX-XXX-00-000 INNER CONTACT TOTAL No. OF CONTACTS——— 02 TO 12 1. CONNECTORS ARE SUPPLIED WITH CONTACTS AND SCREWS LOOSE, GUIDE PINS ARE ASSEMBLED. 2. COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, INSULATOR AND LATCHING COLLAR 07.04.11 11222 SPECIAL CONTACTS 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 2.7mm M80-308 309 = 90° COAX CONTACT CRIMP 2.7mm M80-308 325 = POWER CONTACT SOLDER 12AWG M80-325 326 = POWER CONTACT SOLDER 14AWG M80-326 ARE PRE-ASSEMBLED AND SLEEVE AND INNER CONTACT ARE SEPARATE. FOR EXTRA COAX CONTACTS, USE PART NUMBER M80-305/306/307/308/309 C/NOTI DATE APPROVED: S. MCCULLAGH

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'	M80-305/306/307 = 13.4mm
DIM 'E'	M80-325/326/327 = 12.7mm
DIM 'F'	M80-308/309 = 9.7mm
DIM 'G'	M80-32A/32B/32C = 10.3mm
DIM 'H'	M80-328/329 = 13.9mm

EXAMPLE 1: CONNNECTOR WITH 08 COAX CONTACTS. M80-400000FG-08-305-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm, DIM 'D' = 13.4mm

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS. M80-400000FG-10-325-00-000

'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm, DIM 'E' = 12.7mm

FOR EXTRA POWER CONTACTS, USE PART NUMBER M80-325/326/327/328/329/32A/32B/32C. 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.

RECOMMENDED HAND CRIMP TOOL FOR M80-328/329 = Z80-294 WITH POSITIONER Z80-295.

POWER AND COAX CONTACT EXTRACTION TOOL = Z80-290

POWER CONTACT WIRE, STRIP BY 5.00mm MINIMUM

INSTRUCTION SHEETS ARE AVAILABLE.

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FOR EXAMPLE OF ALL COAX SPECIAL CONTACTS ORDER CODE SEE EXAMPLE I IN TABLE 10. FOR EXAMPLE OF ALL POWER SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 2 IN TABLE.

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

UNLESS STATED

SEE ABOVE

JACKSCREW DATAMATE MIXED TECHNOLOGY FEMALE ASSY WITH HEX SOCKET J/S AND BOARD MOUNT

DRAWN:

CUSTOMER REF.:

ASSEMBLY DRG:

CHECKED: M. G. PLESTED

S.FLOWER

DRAWING NUMBER: M80-400000FG-XX-XXX-00-000 OF

MATERIAL:

S/AREA:

327 = POWER CONTACT SOLDER 16AWG M80-327

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

32C = 90° POWER CONTACT SOLDER 16AWG M80-32C

FINISH: SEE ABOVE

Customer Information

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

SPECIFICATIONS: MATERIAL:

MOULDING: GLASS FILLED PPS, UL94V-0, BLACK POWER CONTACT: COPPER ALLOY

JACKSCREW, CIRCLIP: STAINLESS STEEL FINISH:

POWER CONTACT: GOLD

ELECTRICAL:

WORKING VOLTAGE = 120V AC/DC VOLTAGE PROOF = 360V AC/DC INSULATION RESISTANCE = 100MΩ MIN

POWER CONTACT:

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

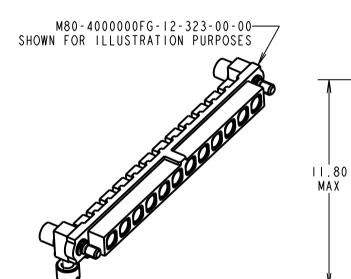
MECHANICAL:

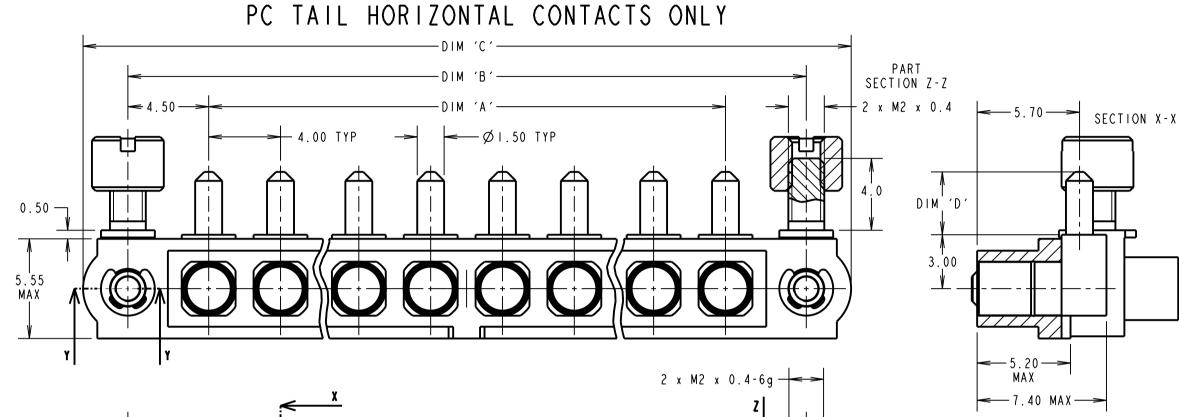
DURABILITY = 500 OPERATIONS POWER CONTACT:

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

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

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 + 10.00
DIM 'D'	M80-323 = 3.50mm, M80-324 = 5.00mm
DIM 'E'	M80-323 = 3.50mm, M80-324 = 5.00mm
1	

7.00

MAX

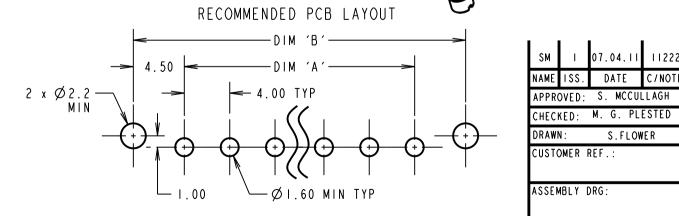
EXAMPLE 1: CONNECTOR WITH 10 POWER CONTACTS 3.5mm. M80-400000FE-10-323-00-000

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, M80-400000FE-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) M80-400000FG-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



HARWIN

HARWIN USA EL: 603 893 5376

PART SECTION Y-Y

-2 x 2.00 A/F HEX SOCKET

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

TOLERANCES

MATERIAL: SEE ABOVE

JACKSCREW DATAMATE MIXED TECHNOLOGY FEMALE ASSY WITH HEX SOCKET J/S AND BOARD MOUNT

C/NOTI

DRAWING NUMBER:

FINISH: SEE ABOVE

S/AREA:

M80-4000000FG-XX-XXX-00-000 0F.