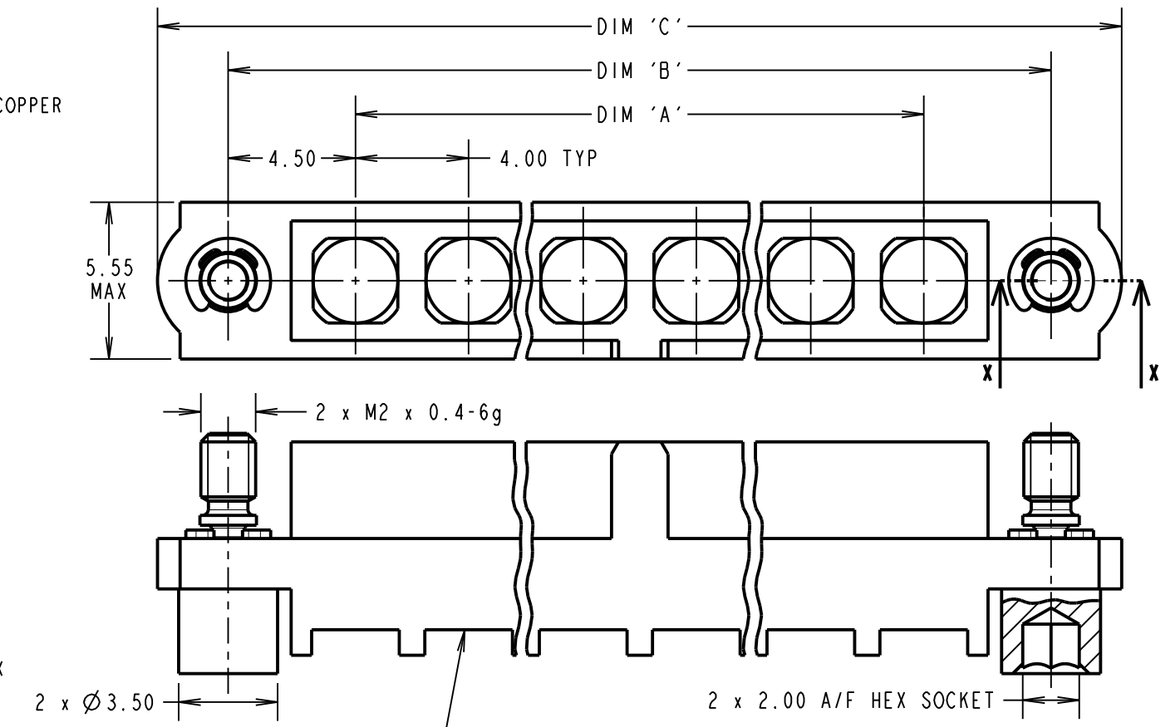
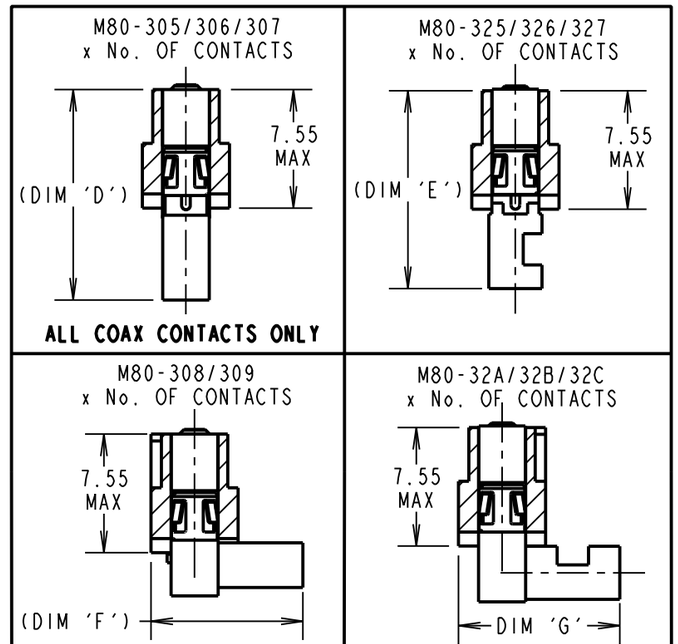
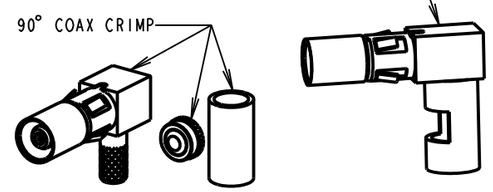
Customer Information Sheet

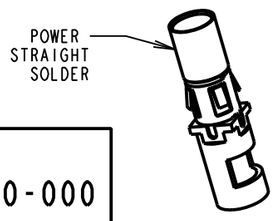
DRAWING No.: M80-4000000F2-XX-XXX-00-000	SHEET 4 OF 6	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

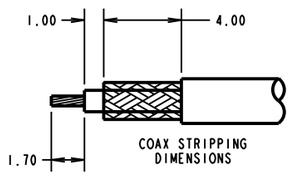
SPECIFICATIONS:
MATERIAL:
 MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
 POWER & COAX CONTACT:
  BODY = COPPER ALLOY
  INNER CONTACT,LATCHING COLLAR = BERYLLIUM COPPER
  INSULATOR = PTFE
 JACKSCREW, CIRCLIP: STAINLESS STEEL
FINISH:
 POWER & COAX CONTACT
  BODY,SLEEVE, INNER CONTACT = GOLD
  LATCHING COLLAR: = NICKEL
ELECTRICAL:
 WORKING VOLTAGE = 120V AC/DC
 VOLTAGE PROOF = 360V AC/DC
 INSULATION RESISTANCE = 100MΩ MIN
 POWER CONTACT:
  CONTACT RESISTANCE = 6mΩ MAX
  CURRENT RATING = M80-325 20A MAX 12AWG
  M80-326 15A MAX 14AWG
  M80-327 10A MAX 16AWG
  M80-32D 10A MAX 16AWG
  M80-32A 20A MAX 12AWG
  M80-32B 15A MAX 14AWG
  M80-32C 10A MAX 16AWG
  M80-328 8A MAX 18AWG
  M80-329 5A MAX 20AWG
  CONTACT AS SPECIFIED
 COAX CONTACT:
  FREQUENCY RANGE = 6GHz
  IMPEDANCE = 50 Ω
  V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX
  CONTACT RESISTANCE 6 mΩ MAX
  INSULATION RESISTANCE = 10^6MΩ @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:
 BAG
FOR COMPLETE SPECIFICATION SEE COMPONENT
SPECIFICATION C005XX (LATEST ISSUE)

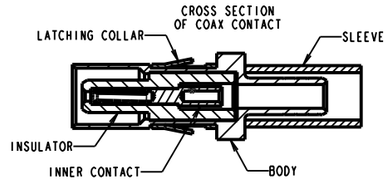












CRIMP/SOLDER CONTACTS ONLY

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'	M80-305/306/307=13.4mm
DIM 'E'	M80-325/326/327/32D=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,
M80-4000000F2-08-305-00-000
DIM 'A' = 28.00mm, DIM 'B' = 37.00mm,
DIM 'C' = 42.00mm, DIM 'D' = 13.4mm
EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS,
M80-4000000F2-10-325-00-000
DIM 'A' = 36.00mm, DIM 'B' = 45.00mm,
DIM 'C' = 50.00mm, DIM 'E' = 12.7mm

ORDER CODE:(CRIMP/SOLDER)

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

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 2.0mm 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
327 = POWER CONTACT SOLDER 16AWG M80-327
328 = POWER CONTACT CRIMP/SOLDER 18AWG M80-328
329 = POWER CONTACT CRIMP/SOLDER 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

NOTES:
1. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
2. FOR EXTRA COAX CONTACTS, USE PART NUMBER M80-305/306/307/308/309
   FOR EXTRA POWER CONTACTS, USE PART NUMBER M80-325/326/327/328/329/32D/32A/32B/32C.
3. 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. 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.
5. RECOMMENDED HAND CRIMP TOOL FOR CONTACTS M80-328/329 = Z80-294 WITH POSITIONER Z80-295.
6. POWER AND COAX CONTACT EXTRACTION TOOL = Z80-290
7. POWER CONTACT WIRE, STRIP BY 5.00mm MINIMUM
8. INSTRUCTION SHEETS ARE AVAILABLE.
9. FOR EXAMPLE OF ALL COAX SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 1 IN TABLE
10. FOR EXAMPLE OF ALL POWER SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 2 IN TABLE.

SM	3	07.04.11	11222
NAME	ISS.	DATE	C/NOTE

APPROVED: S. MCCULLAGH
CHECKED: M. G. PLESTED
DRAWN: C.PENROSE
CUSTOMER REF.:
ASSEMBLY DRG:

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

MATERIAL: SEE ABOVE
FINISH: SEE ABOVE
S/AREA: mm²

TITLE: JACKSCREW DATAMATE MIXED TECHNOLOGY FEMALE ASSY WITH HEX SOCKET J/S

DRAWING NUMBER: M80-4000000F2-XX-XXX-00-000

SHT 4 OF 6

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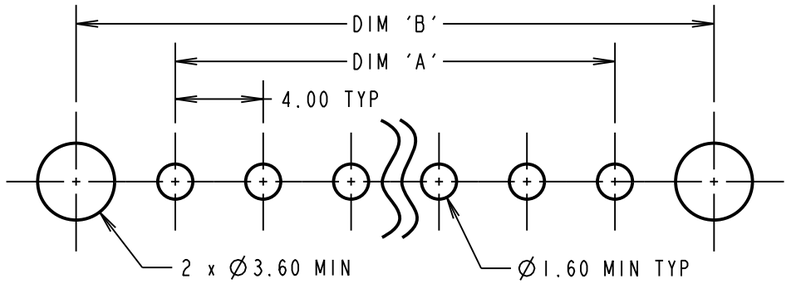
Customer Information Sheet

DRAWING No.: M80-4000000F2-XX-XXX-00-000	SHEET 5 OF 6	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

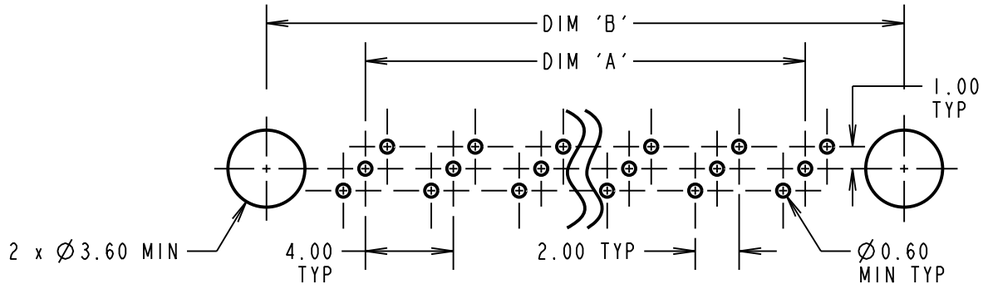
SPECIFICATIONS:
MATERIAL:
 MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
 POWER & COAX CONTACT:
  BODY = COPPER ALLOY
  INNER CONTACT = BERYLLIUM COPPER
  INSULATOR = PTFE
 JACKSCREW, CIRCLIP: STAINLESS STEEL
FINISH:
 POWER & COAX CONTACT
  BODY,SLEEVE,INNER CONTACT = GOLD
ELECTRICAL:
 WORKING VOLTAGE = 120V AC/DC
 VOLTAGE PROOF = 360V AC/DC
 INSULATION RESISTANCE = 100MΩ MIN
 POWER CONTACT:
  CONTACT RESISTANCE = 6mΩ 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 mΩ MAX
  INSULATION RESISTANCE = 10^6MΩ @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:
 TUBE
FOR COMPLETE SPECIFICATION SEE COMPONENT
SPECIFICATION C005XX (LATEST ISSUE)

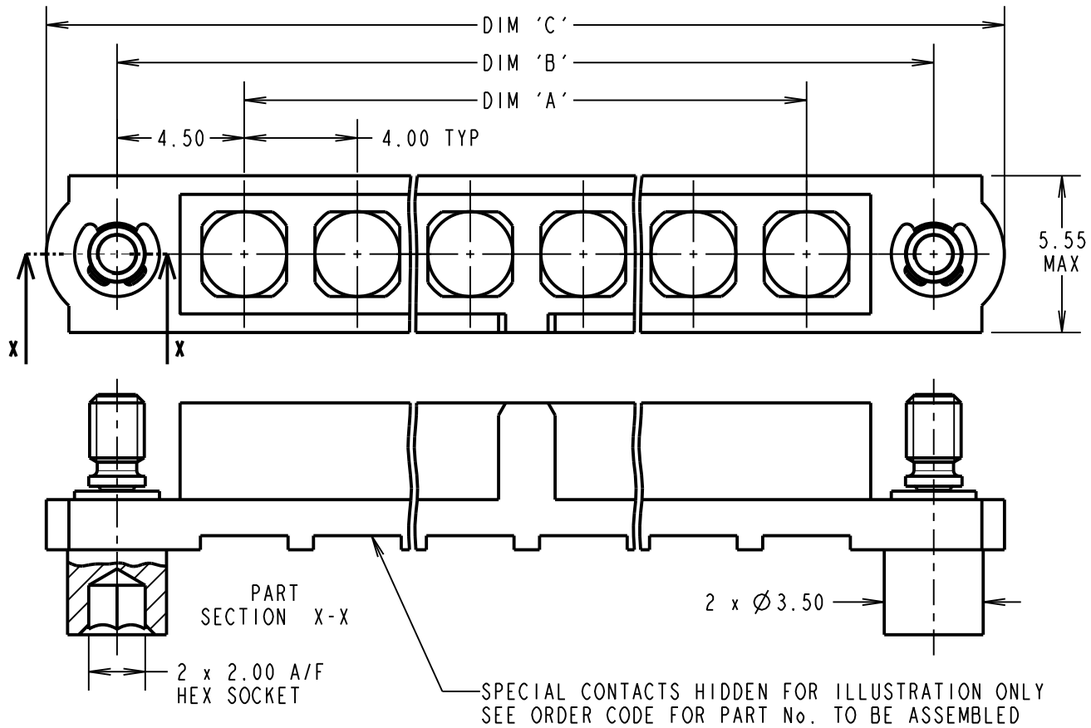
NOTES:
1. FOR EXAMPLE OF ALL COAX SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 1 IN TABLE
2. FOR EXAMPLE OF ALL POWER SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 2 IN TABLE.

RECOMMENDED PCB LAYOUT FOR ALL POWER CONTACTS ONLY

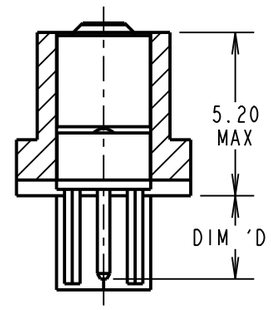


RECOMMENDED PCB LAYOUT FOR ALL COAX CONTACTS ONLY



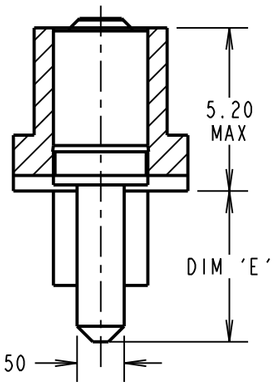


M80-301/302
x No. OF CONTACTS

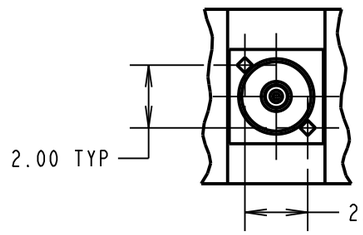


ALL COAX CONTACTS ONLY

M80-321/322
x No. OF CONTACTS



ALL POWER CONTACTS ONLY



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

EXAMPLE 1: CONNNECTOR WITH 08 COAX CONTACTS,
M80-4000000F2-08-301-00-000
DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm
DIM'D' = 3.00mm

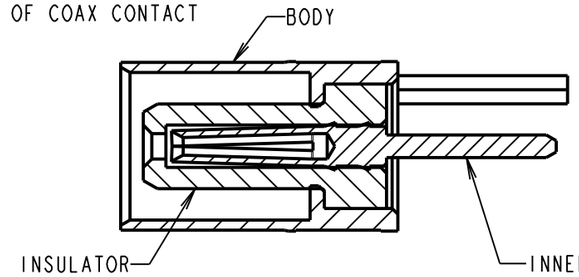
EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS,
M80-4000000F2-10-321-00-000
DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm
DIM 'E' = 3.50mm

ORDER CODE:(PC TAIL CONTACTS ONLY)
M80-4000000F2-XX-XXX-00-000

TOTAL No. OF CONTACTS
02 TO 12

SPECIAL CONTACTS
301 = COAX CONTACT PC TAIL 3.0mm M80-301
302 = COAX CONTACT PC TAIL 4.5mm M80-302
321 = POWER CONTACT PC TAIL 3.5mm M80-321
322 = POWER CONTACT PC TAIL 5.0mm M80-322

CROSS-SECTION OF COAX CONTACT



SM	3	07.04.11	11222
NAME	ISS.	DATE	C/NOTE

APPROVED: S. MCCULLAGH
CHECKED: M. G. PLESTED
DRAWN: C.PENROSE
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN

HARWIN USA	HARWIN Europe (UK)	HARWIN Asia
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FAX: 603 893 5396	FAX: 023 9231 4590	FAX: +65 6 779 3868
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TOLERANCES
X. = ±1mm
X.X = ±0.25mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL: SEE ABOVE
FINISH: SEE ABOVE
S/AREA: mm²

TITLE: JACKSCREW DATAMATE MIXED TECHNOLOGY FEMALE ASSY WITH HEX SOCKET J/S

DRAWING NUMBER: M80-4000000F2-XX-XXX-00-000

SHT 5 OF 6

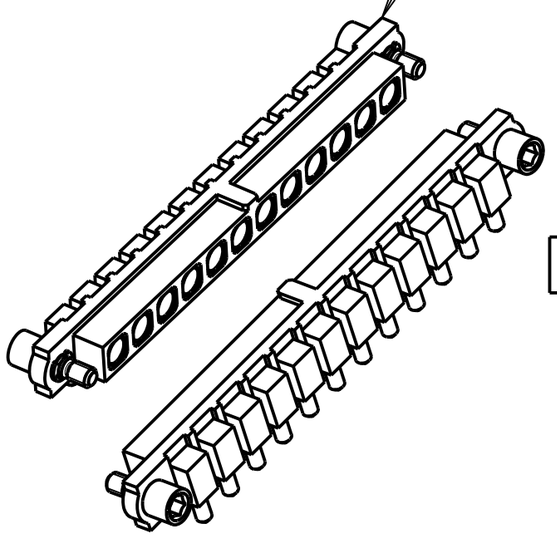
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Customer Information Sheet

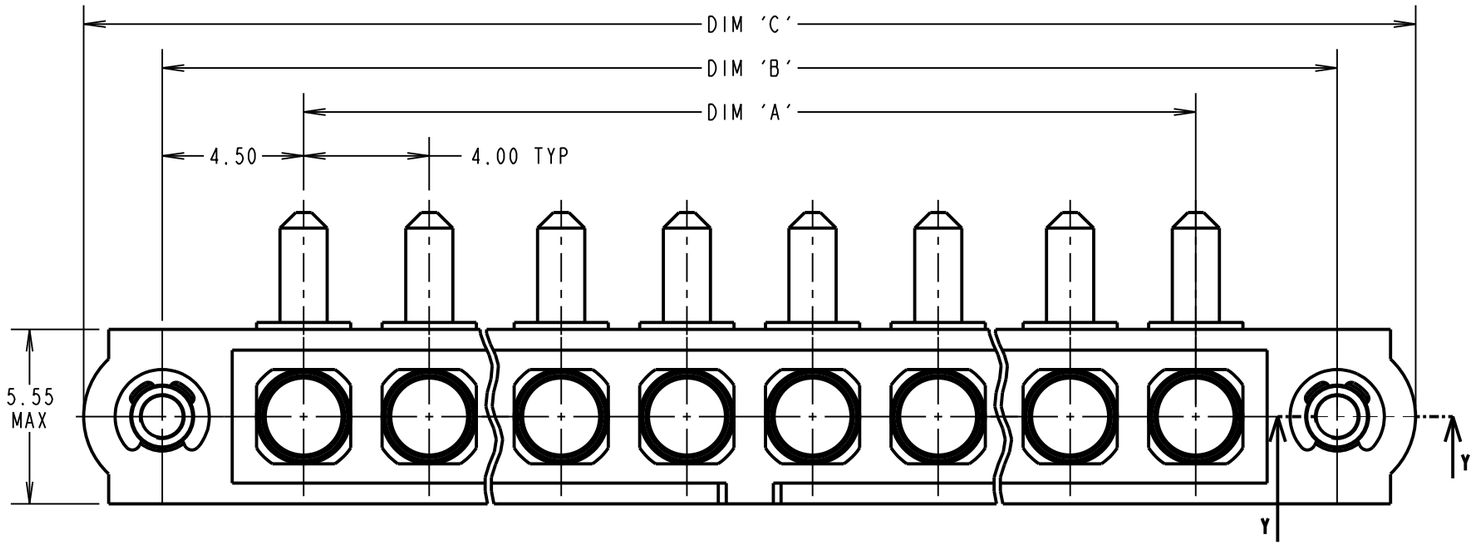
DRAWING No.: M80-4000000F2-XX-XXX-00-000	SHEET 6 OF 6	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

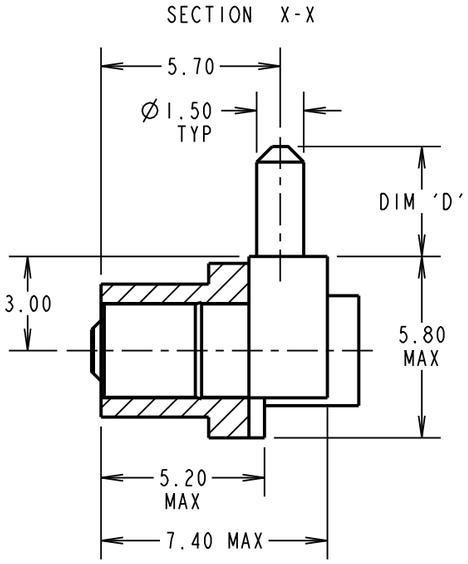
SPECIFICATIONS:
MATERIAL:
 MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
 POWER CONTACT: COPPER ALLOY
 JACKSCREW, CIRCLIP: STAINLESS STEEL
FINISH:
 POWER CONTACT: GOLD
ELECTRICAL:
 WORKING VOLTAGE = 120V AC/DC
 VOLTAGE PROOF = 360V AC/DC
 INSULATION RESISTANCE = 100MΩ MIN
 POWER CONTACT:
  CONTACT RESISTANCE = 6 mΩ 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 C005XX (LATEST ISSUE)

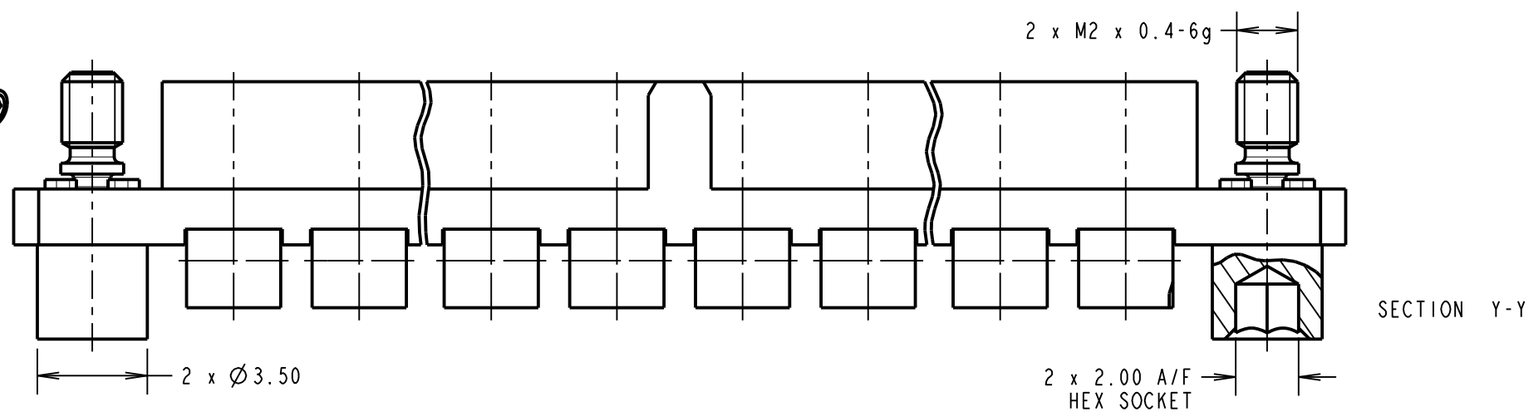
M80-4000000F2-12-323-00-00
SHOWN FOR ILLUSTRATION PURPOSES



PC TAIL HORIZONTAL CONTACTS ONLY







SECTION Y-Y

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,
M80-4000000F2-10-323-00-000
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,
M80-4000000F2-10-324-00-000
DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm
DIM 'D' = 5.00mm

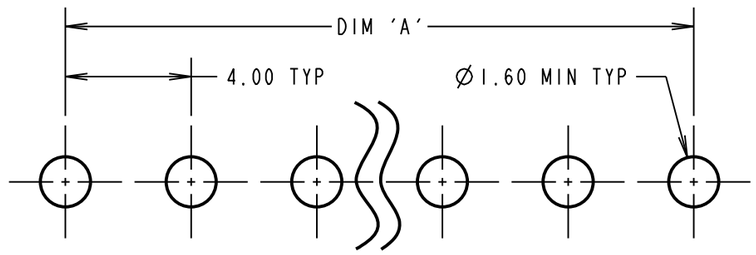
ORDER CODE:
(FEMALE HORIZONTAL POWER CONTACTS ONLY)

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

TOTAL No. OF CONTACTS
02 TO 12

FEMALE HORIZONTAL POWER CONTACTS
323 = POWER CONTACT PC TAIL 3.5mm M80-323
324 = POWER CONTACT PC TAIL 5.0mm M80-324

RECOMMENDED PCB LAYOUT



SM	3	07.04.11	11222
NAME	ISS.	DATE	C/NOTE

APPROVED: S. MCCULLAGH
CHECKED: M. G. PLESTED
DRAWN: C.PENROSE
CUSTOMER REF.:
ASSEMBLY DRG:

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

MATERIAL: SEE ABOVE
FINISH: SEE ABOVE
S/AREA: mm²

TITLE: JACKSCREW DATAMATE MIXED TECHNOLOGY FEMALE ASSY WITH HEX SOCKET J/S

DRAWING NUMBER: **M80-4000000F2-XX-XXX-00-000**

SHT 6 OF 6

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