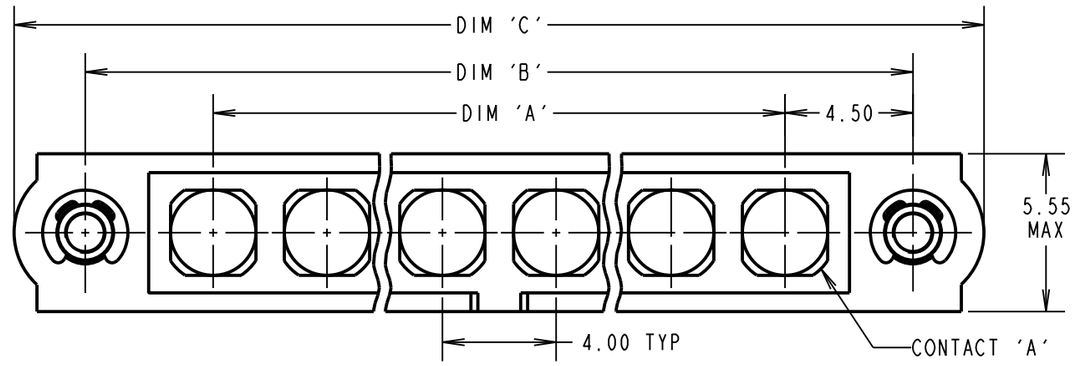
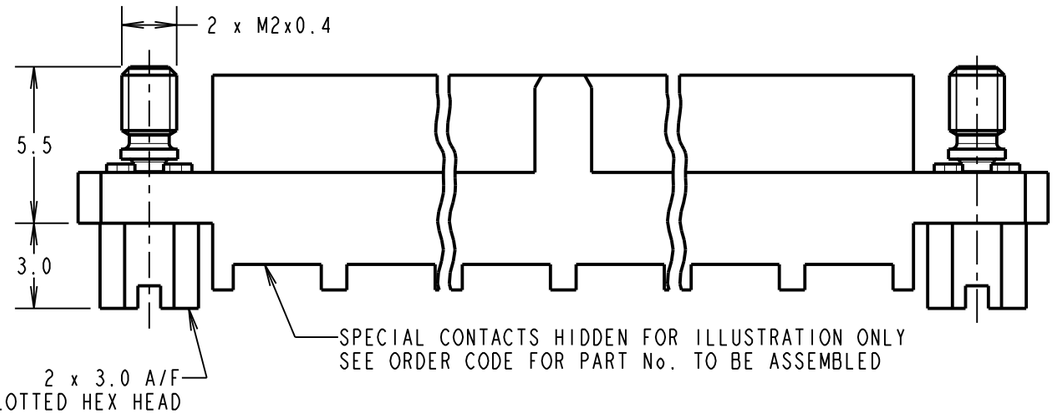
Customer Information Sheet

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

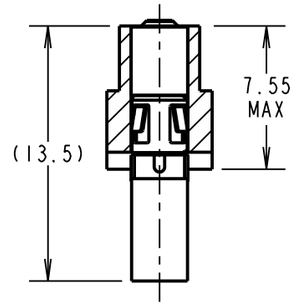
SPECIFICATIONS:
MATERIAL:
 MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
 COAX CONTACT:
  BODY, SLEEVE, END PLUG = COPPER ALLOY
  INNER CONTACT,LATCHING COLLAR = BERYLLIUM COPPER
  INSULATOR = PTFE
 JACKSCREW, CIRCLIP: STAINLESS STEEL
FINISH:
 COAX CONTACT
  BODY,SLEEVE, INNER CONTACT, END PLUG = GOLD
  LATCHING COLLAR: = NICKEL
ELECTRICAL:
 INSULATION RESISTANCE = 100MΩ MIN
 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
 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 C005XX (LATEST ISSUE)

COAX CRIMP/SOLDER CONTACTS ONLY

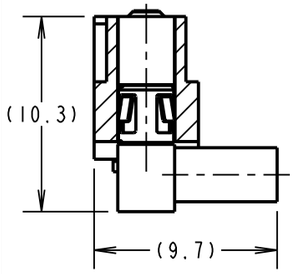


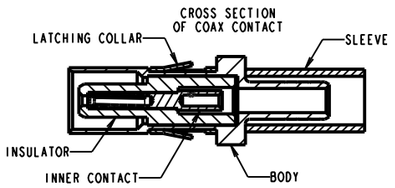


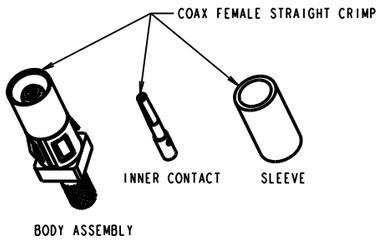
M80-305/306/307
x No. OF CONTACTS

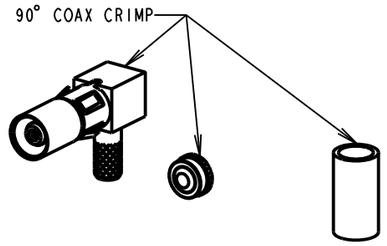


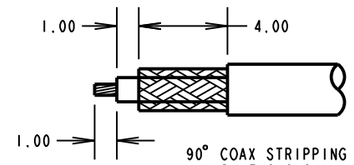
M80-308/309
x No. OF CONTACTS











ORDER CODE:(COAX CRIMP/SOLDER)

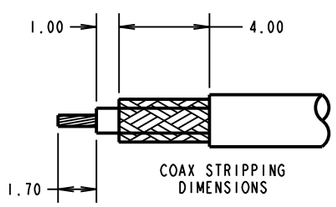
M80-4000000FI-XX-XXX-00-000

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

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

EXAMPLE: CONNNECTOR WITH 08 COAX CONTACTS,
M80-4000000FI-08-305-00-000
DIM 'A' = 28.00mm, DIM 'B' = 37.00mm,
DIM 'C' = 42.00mm



NOTES:
1. 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.
3. 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.
5. COAX CONTACT EXTRACTION TOOL = Z80-290.
6. INSTRUCTION SHEETS ARE AVAILABLE.

MGP	7	20.03.14	12429
NAME	ISS.	DATE	C/NOTE

APPROVED: MGP
CHECKED: SB
DRAWN: R.ADDE
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

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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: DATAMATE MIX-TEK FEMALE ASSEMBLY WITH JACKSCREW

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

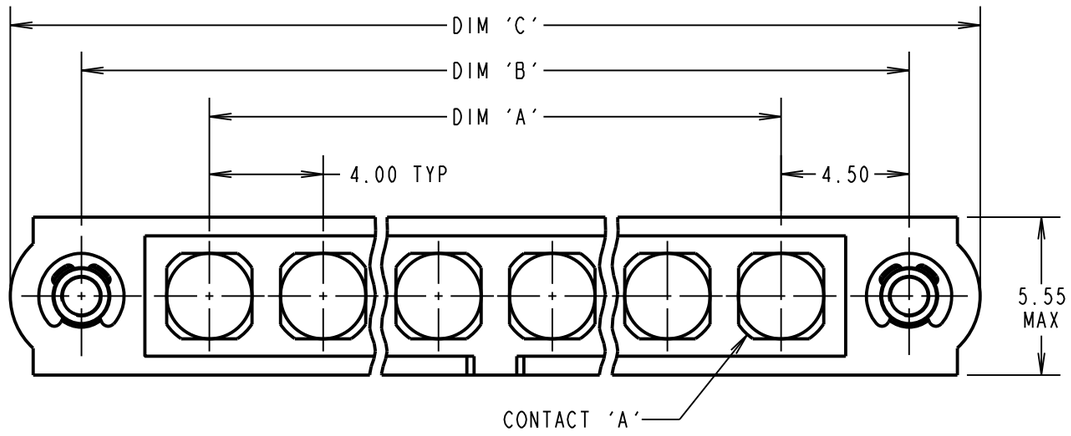
SHT 6 OF 10

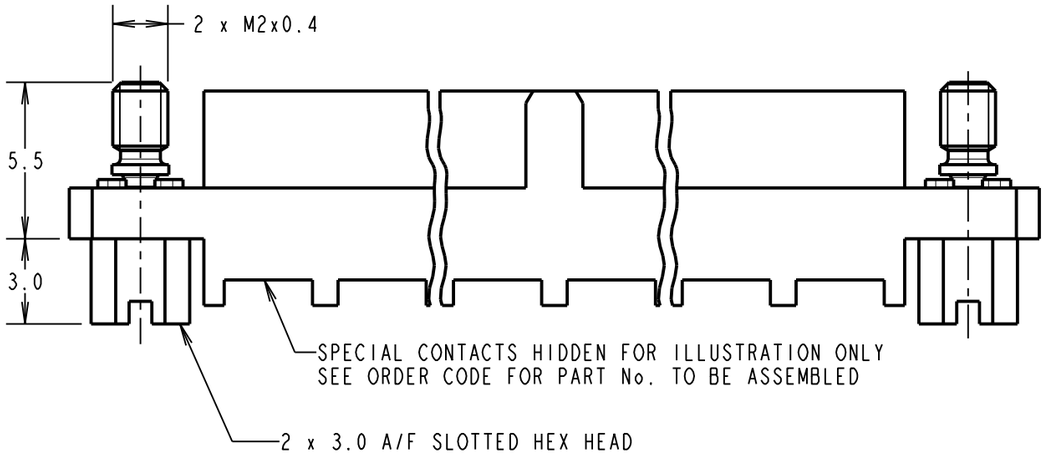
Customer Information Sheet

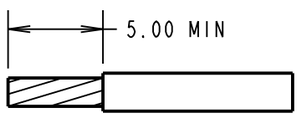
DRAWING No.: M80-4000000FI-XX-XXX-00-000	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

SPECIFICATIONS:
MATERIAL:
 MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
 POWER CONTACT:
  BODY = COPPER ALLOY
  LATCHING COLLAR = BERYLLIUM COPPER
 JACKSCREW, CIRCLIP: STAINLESS STEEL
FINISH:
 POWER CONTACT:
  8 TO 20A = 0.25µ MIN GOLD OVER NICKEL
  40A = 0.76µ MIN GOLD OVER NICKEL
  LATCHING COLLAR: = NICKEL
ELECTRICAL:
 WORKING VOLTAGE = 800V AC/DC
 VOLTAGE PROOF = 1200V AC/DC
 INSULATION RESISTANCE = 100MΩ MIN
 POWER CONTACT:
  CONTACT RESISTANCE = 6mΩ MAX
  CURRENT RATING:
   M80-PF5 40A MAX 10AWG, M80-325 20A MAX 12AWG,
   M80-326 15A MAX 14AWG,M80-327 10A MAX 16AWG,
   M80-328 8A MAX 18AWG, M80-329 5A MAX 20AWG,
   M80-32A 20A MAX 12AWG, M80-32B 15A MAX 14AWG,
   M80-32C 10A MAX 16AWG, CONTACT AS SPECIFIED
MECHANICAL:
 DURABILITY = 500 OPERATIONS
 POWER CONTACT:
  INSERTION FORCE:
   8 TO 20A = 8N MAX
   40A = 15N MAX
  WITHDRAWAL FORCE = 0.5N MIN
ENVIRONMENTAL:
 TEMPERATURE RANGE = -55°C TO +150°C
PACKING:
 BAG
FOR COMPLETE SPECIFICATION SEE COMPONENT
SPECIFICATION C005XX (LATEST ISSUE)

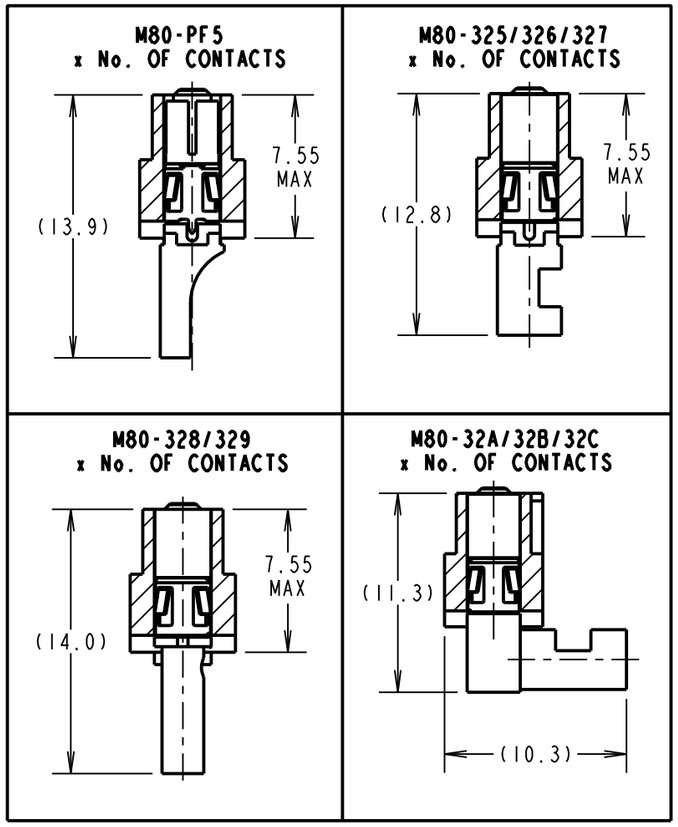
POWER CRIMP/SOLDER CONTACTS ONLY







POWER CABLE
STRIPPING DIMENSIONS



ORDER CODE:(POWER CRIMP/SOLDER)

M80-4000000FI-XX-XXX-00-000

TOTAL No. OF CONTACTS
02 TO 12

SPECIAL CONTACTS
PF5 = POWER CONTACT SOLDER 10AWG M80-PF5
325 = POWER CONTACT SOLDER 12AWG M80-325
326 = POWER CONTACT SOLDER 14AWG M80-326
327 = POWER CONTACT SOLDER 16AWG M80-327
328 = POWER CONTACT SOLDER OR CRIMP 18AWG M80-328
329 = POWER CONTACT SOLDER OR 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

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
EXAMPLE: CONNECTOR WITH 10 POWER CONTACTS, M80-4000000FI-10-325-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm	

NOTES:
1. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
2. FOR EXTRA POWER CONTACTS, USE PART NUMBER M80-PF5/325/326/327/328/329/32A/32B/32C.
3. POWER AND CONTACT EXTRACTION TOOL = Z80-290.
4. INSTRUCTION SHEETS ARE AVAILABLE.

NAME	ISS.	DATE	C/NOTE
MGP	7	20.03.14	12429
APPROVED: MGP			
CHECKED: SB			
DRAWN: R.ADDE			
CUSTOMER REF.:			
ASSEMBLY DRG:			

HARWIN
www.harwin.com
technical@harwin.com

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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: DATAMATE MIX-TEK FEMALE ASSEMBLY WITH JACKSCREW

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

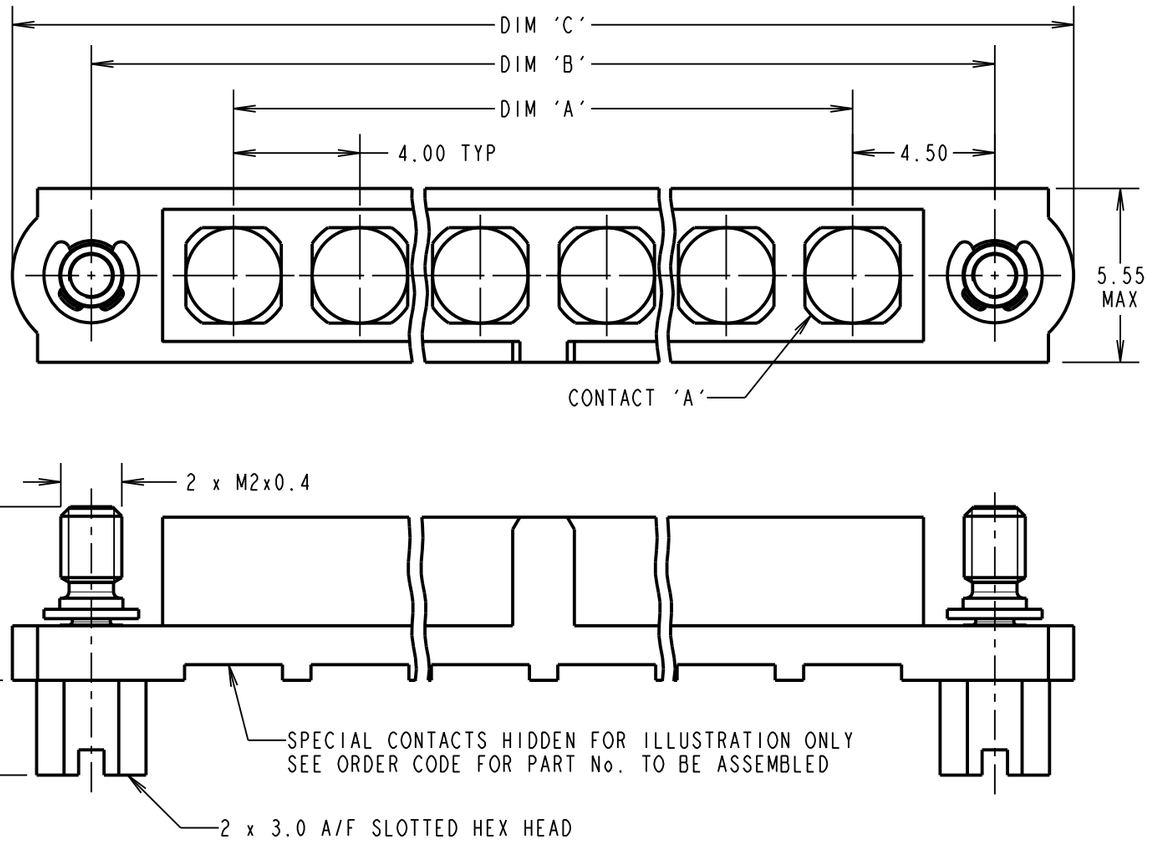
SHT 7 OF 10

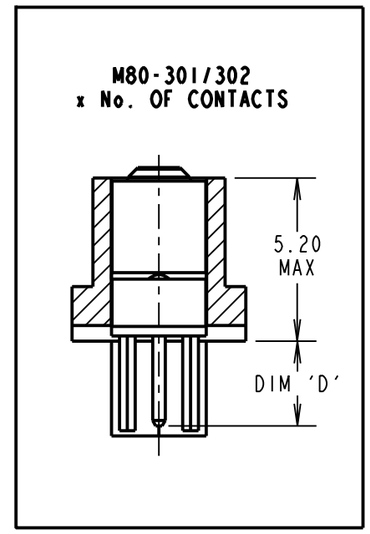
Customer Information Sheet

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

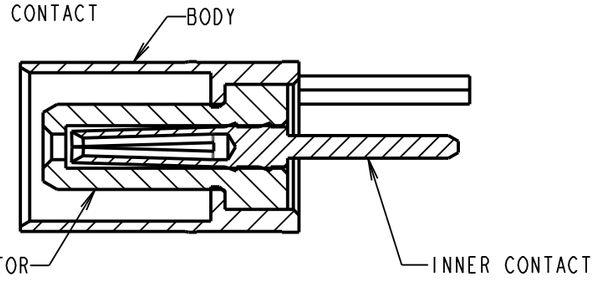
SPECIFICATIONS:
MATERIAL:
 MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
 COAX CONTACT:
  BODY = COPPER ALLOY
  INNER CONTACT = BERYLLIUM COPPER
  INSULATOR = PTFE
 JACKSCREW, CIRCLIP: STAINLESS STEEL
FINISH:
 COAX CONTACT
  BODY,SLEEVE,INNER CONTACT = GOLD
ELECTRICAL:
 INSULATION RESISTANCE = 100MΩ MIN
 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
 COAX CONTACT:
  INSERTION FORCE = 8N 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)

COAX PC TAIL VERTICAL CONTACTS ONLY





CROSS-SECTION OF COAX CONTACT



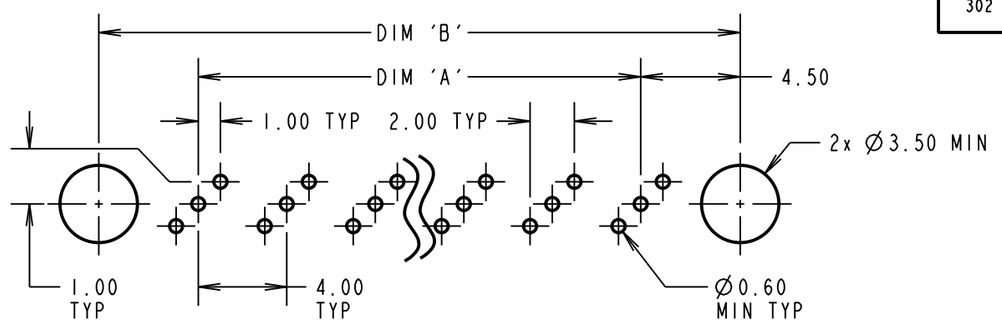
ORDER CODE:
(COAX PC TAIL VERTICAL CONTACTS ONLY)

M80-4000000FI-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

RECOMMENDED PCB LAYOUT FOR COAX CONTACTS



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

MGP	7	20.03.14	12429
NAME	ISS.	DATE	C/NOTE

APPROVED: MGP
CHECKED: SB
DRAWN: R.ADDE
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

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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: DATAMATE MIX-TEK FEMALE ASSEMBLY WITH JACKSCREW

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

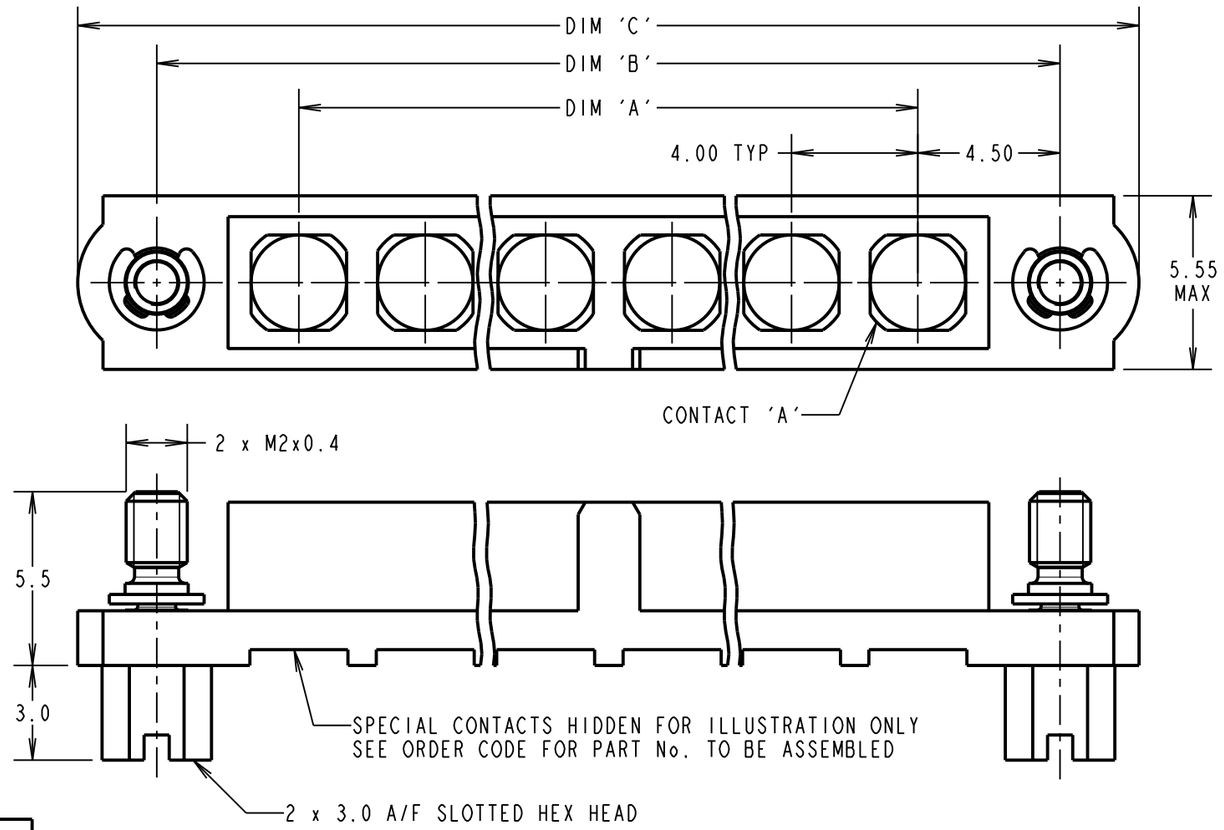
SHT 8 OF 10

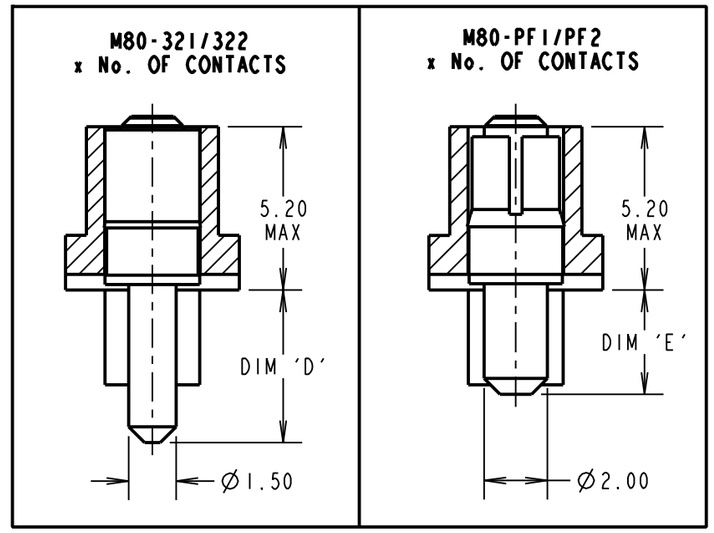
Customer Information Sheet

DRAWING No.: M80-4000000FI-XX-XXX-00-000	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:
  20A = 0.25µ MIN GOLD OVER NICKEL
  40A = 0.76µ MIN GOLD OVER NICKEL
ELECTRICAL:
 WORKING VOLTAGE = 800V AC/DC
 VOLTAGE PROOF = 1200V AC/DC
 INSULATION RESISTANCE = 100MΩ MIN
 POWER CONTACT:
  CONTACT RESISTANCE = 6 mΩ MAX
  CURRENT RATING:
   M80-321/322 = 20A MAX
   M80-PF1/PF2 = 40A MAX
MECHANICAL:
 DURABILITY = 500 OPERATIONS
 POWER CONTACT:
  INSERTION FORCE:
   M80-321/322 = 8N MAX
   M80-PF1/PF2 = 15N MAX
  WITHDRAWAL FORCE = 0.5N MIN
ENVIRONMENTAL:
 TEMPERATURE RANGE = -55°C TO +150°C
PACKING:
 TUBE
FOR COMPLETE SPECIFICATION SEE COMPONENT
SPECIFICATION C005XX (LATEST ISSUE)

POWER PC TAIL VERTICAL CONTACTS ONLY





ORDER CODE:
(POWER PC TAIL VERTICAL CONTACTS ONLY)

M80-4000000FI-XX-XXX-00-000

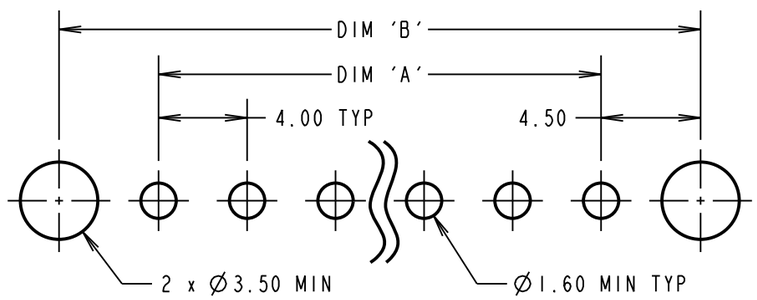
TOTAL No. OF CONTACTS
02 TO 12

SPECIAL CONTACTS
321 = 20A POWER CONTACT PC TAIL 3.5mm M80-321
322 = 20A POWER CONTACT PC TAIL 5.0mm M80-322
PF1 = 40A POWER CONTACT PC TAIL 3.5mm M80-PF1
PF2 = 40A POWER CONTACT PC TAIL 5.0mm M80-PF2

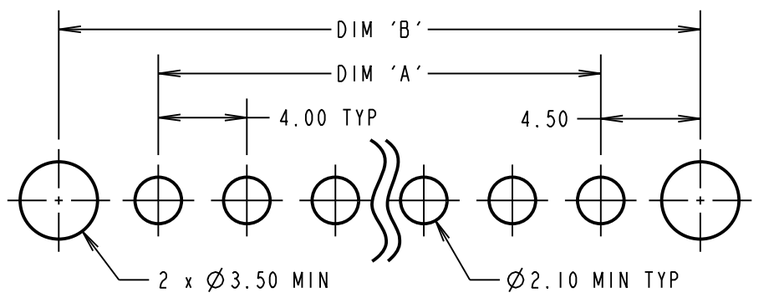
DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.00
DIM 'D'	M80-321 = 3.50mm, M80-322 = 5.00mm
DIM 'E'	M80-PF1 = 3.50mm, M80-PF2 = 5.00mm

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

M80-321/322 RECOMMENDED PCB LAYOUT



M80-PF1/PF2 RECOMMENDED PCB LAYOUT



NAME	ISS.	DATE	C/NOTE
MGP	7	20.03.14	12429

APPROVED: MGP
CHECKED: SB
DRAWN: R.ADDE
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

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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

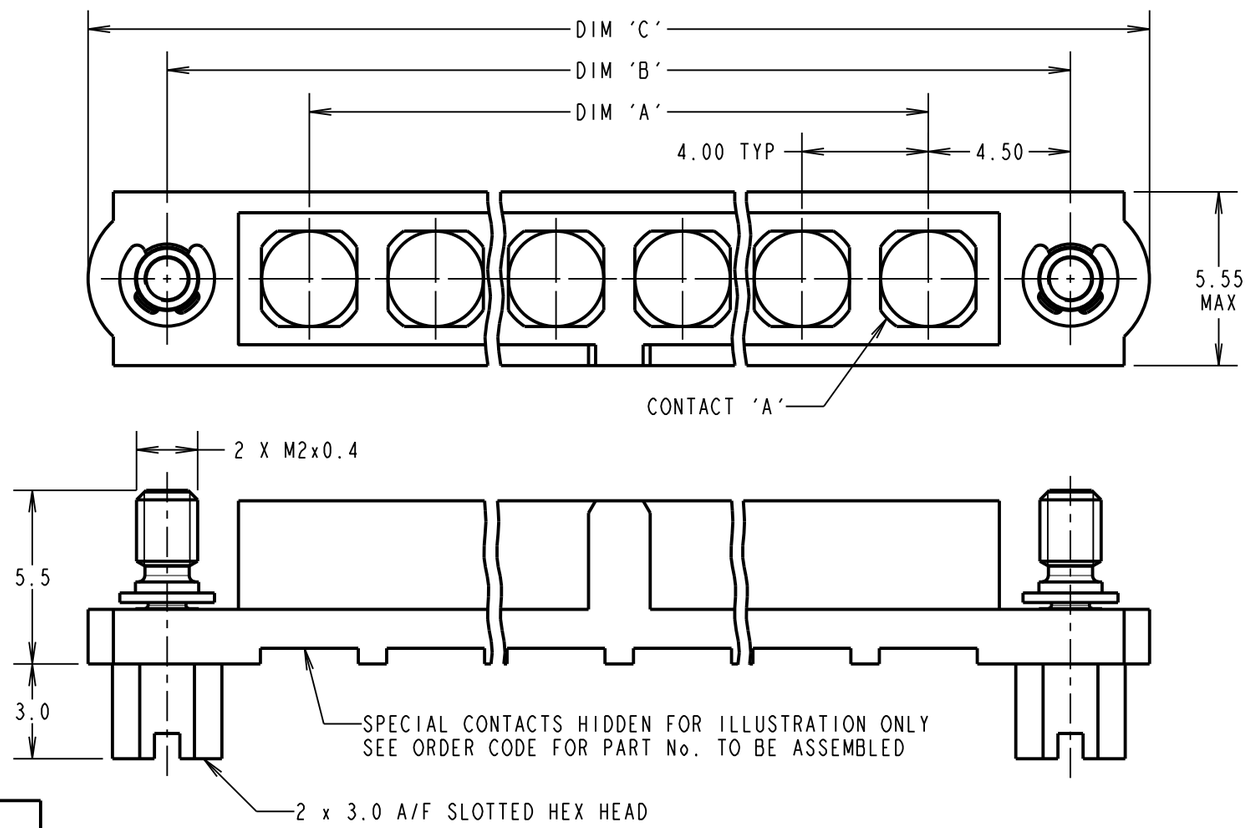
TITLE: DATAMATE MIX-TEK FEMALE ASSEMBLY WITH JACKSCREW
DRAWING NUMBER: M80-4000000FI-XX-XXX-00-000
SHT 9 OF 10

Customer Information Sheet

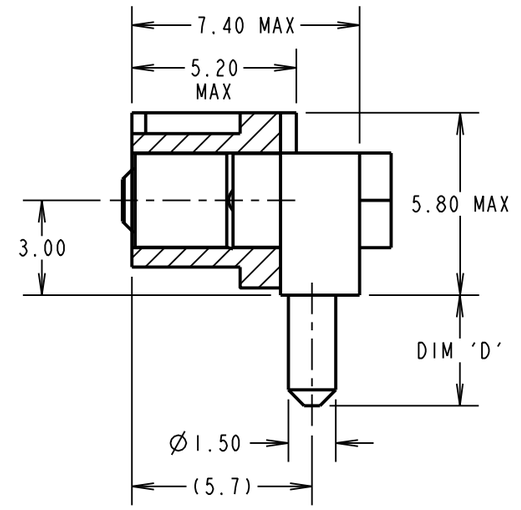
DRAWING No.: M80-4000000FI-XX-XXX-00-000	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

SPECIFICATIONS:
MATERIAL:
 MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
 POWER CONTACT: COPPER ALLOY
 JACKSCREW, CIRCLIP: STAINLESS STEEL
FINISH:
 POWER CONTACT:
  20A = 0.25µ MIN GOLD OVER NICKEL
  40A = 0.76µ MIN GOLD OVER NICKEL
ELECTRICAL:
 WORKING VOLTAGE = 800V AC/DC
 VOLTAGE PROOF = 1200V AC/DC
 INSULATION RESISTANCE = 100MΩ MIN
 POWER CONTACT:
  CONTACT RESISTANCE = 6 mΩ MAX
  CURRENT RATING:
   M80-323/324 = 20A MAX
   M80-PF4/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 = -55°C TO +150°C
PACKING:
 TUBE
FOR COMPLETE SPECIFICATION SEE COMPONENT
SPECIFICATION C005XX (LATEST ISSUE)

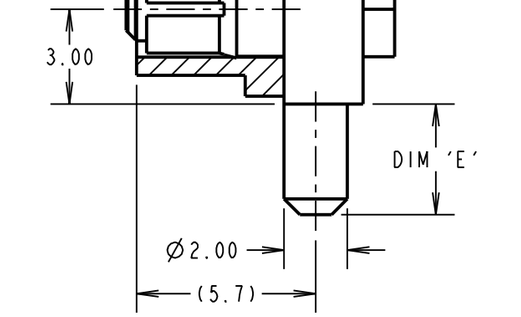
POWER PC TAIL HORIZONTAL CONTACTS ONLY



M80-323/324
x No. OF CONTACTS



M80-PF3/PF4
x No. OF CONTACTS



ORDER CODE:
(POWER PC TAIL HORIZONTAL CONTACTS ONLY)

M80-4000000FI-XX-XXX-00-000

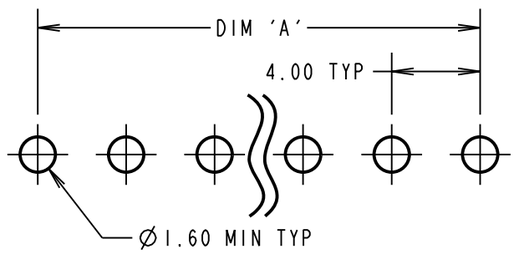
TOTAL No. OF CONTACTS
02 TO 12

SPECIAL CONTACTS
323 = 20A POWER CONTACT PC TAIL 3.5mm M80-323
324 = 20A POWER CONTACT PC TAIL 5.0mm M80-324
PF3 = 40A POWER CONTACT PC TAIL 3.5mm M80-PF3
PF4 = 40A POWER CONTACT PC TAIL 5.0mm M80-PF4

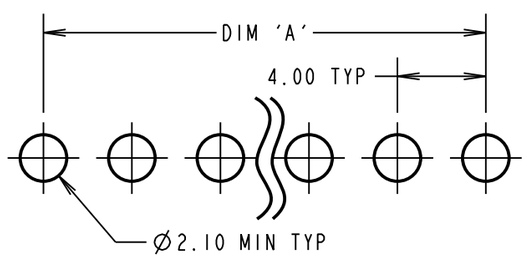
DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.00
DIM 'D'	M80-323 = 3.50mm, M80-324 = 5.00mm
DIM 'E'	M80-PF3 = 3.50mm, M80-PF4 = 5.00mm

EXAMPLE: CONNECTOR WITH 10 POWER CONTACTS,
M80-4000000FI-10-323-00-000
DIM 'A' = 36.00mm, DIM 'B' = 45.00mm,
DIM 'C' = 50.00mm, DIM 'D' = 3.50mm

M80-323/324 RECOMMENDED PCB LAYOUT



M80-PF3/PF4 RECOMMENDED PCB LAYOUT



NAME	ISS.	DATE	C/NOTE
MGP	7	20.03.14	12429

APPROVED: MGP
CHECKED: SB
DRAWN: R.ADDE
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

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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: DATAMATE MIX-TEK FEMALE ASSEMBLY WITH JACKSCREW
DRAWING NUMBER: M80-4000000FI-XX-XXX-00-000
SHT 10 OF 10