

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)

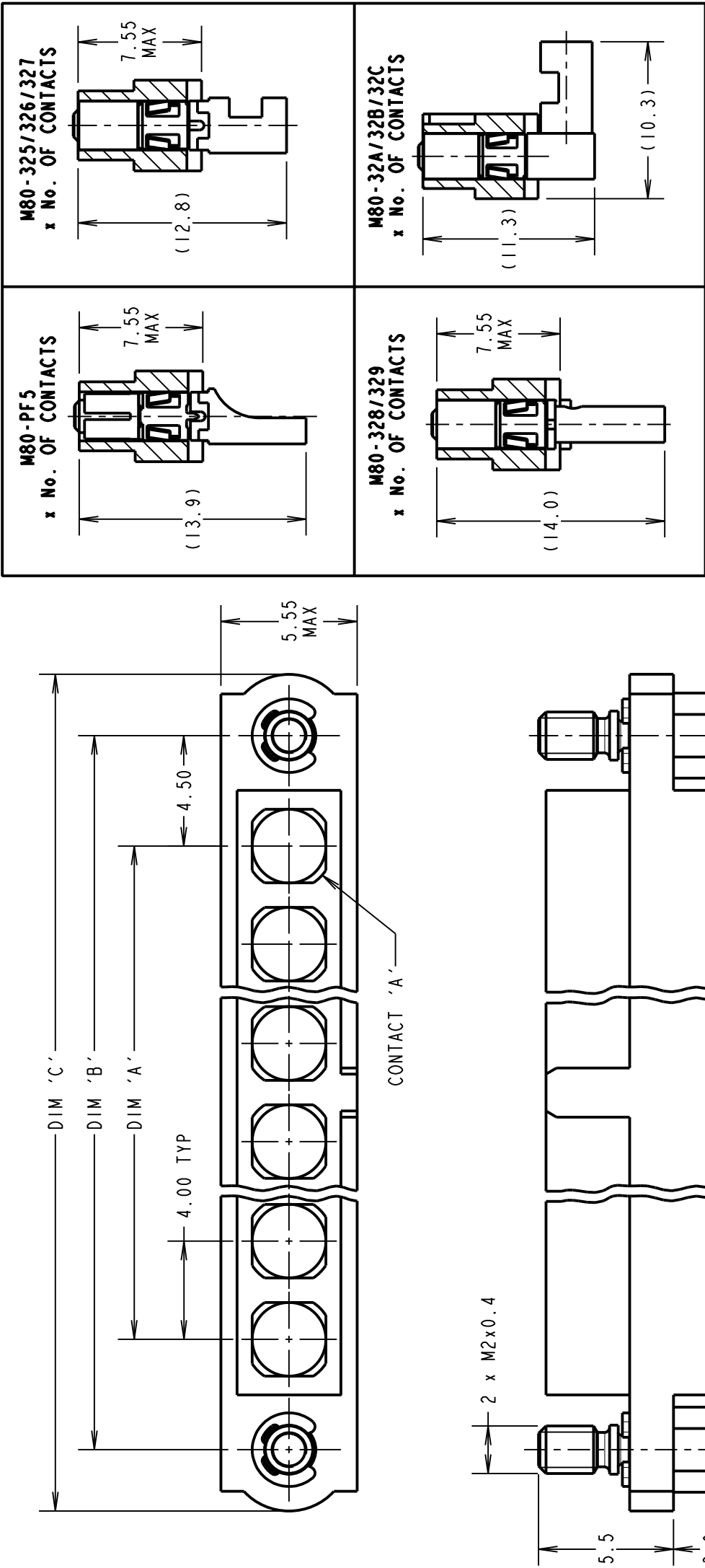
ORDER CODE:(POWER CRIMP/SOLDER)

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

TOTAL No. OF CONTACTS 02 TO 12

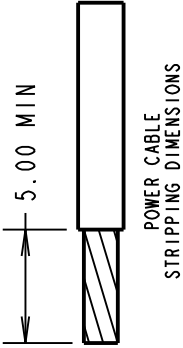
SPECIAL CONTACTS
PF5 = POWER CONTACT SOLDER 10AWG M80-PF5
325 = POWER CONTACT SOLDER 12AWG M80-325
326 = POWER CONTACT SOLDER 14AWG M80-326
327 = POWER CONTACT SOLDER 16AWG M80-327
328 = POWER CONTACT SOLDER OR CRIMP 18AWG M80-328
329 = POWER CONTACT SOLDER OR CRIMP 20AWG M80-329
32A = 90° POWER CONTACT SOLDER 12AWG M80-32A
32B = 90° POWER CONTACT SOLDER 14AWG M80-32B
32C = 90° POWER CONTACT SOLDER 16AWG M80-32C

POWER CRIMP/SOLDER CONTACTS ONLY



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

2 x 3.0 A/F SLOTTED HEX HEAD



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

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

HARWIN

www.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

TITLE:
DATAMATE MIX-TEK
FEMALE ASSEMBLY
WITH JACKSCREW

FINISH: SEE ABOVE

S/AREA: mm²

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

SHT 7 OF 10

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

Customer Information Sheet

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-PFI/PF2 = 40A MAX

MECHANICAL:
DURABILITY = 500 OPERATIONS
POWER CONTACT:

INSERTION FORCE:

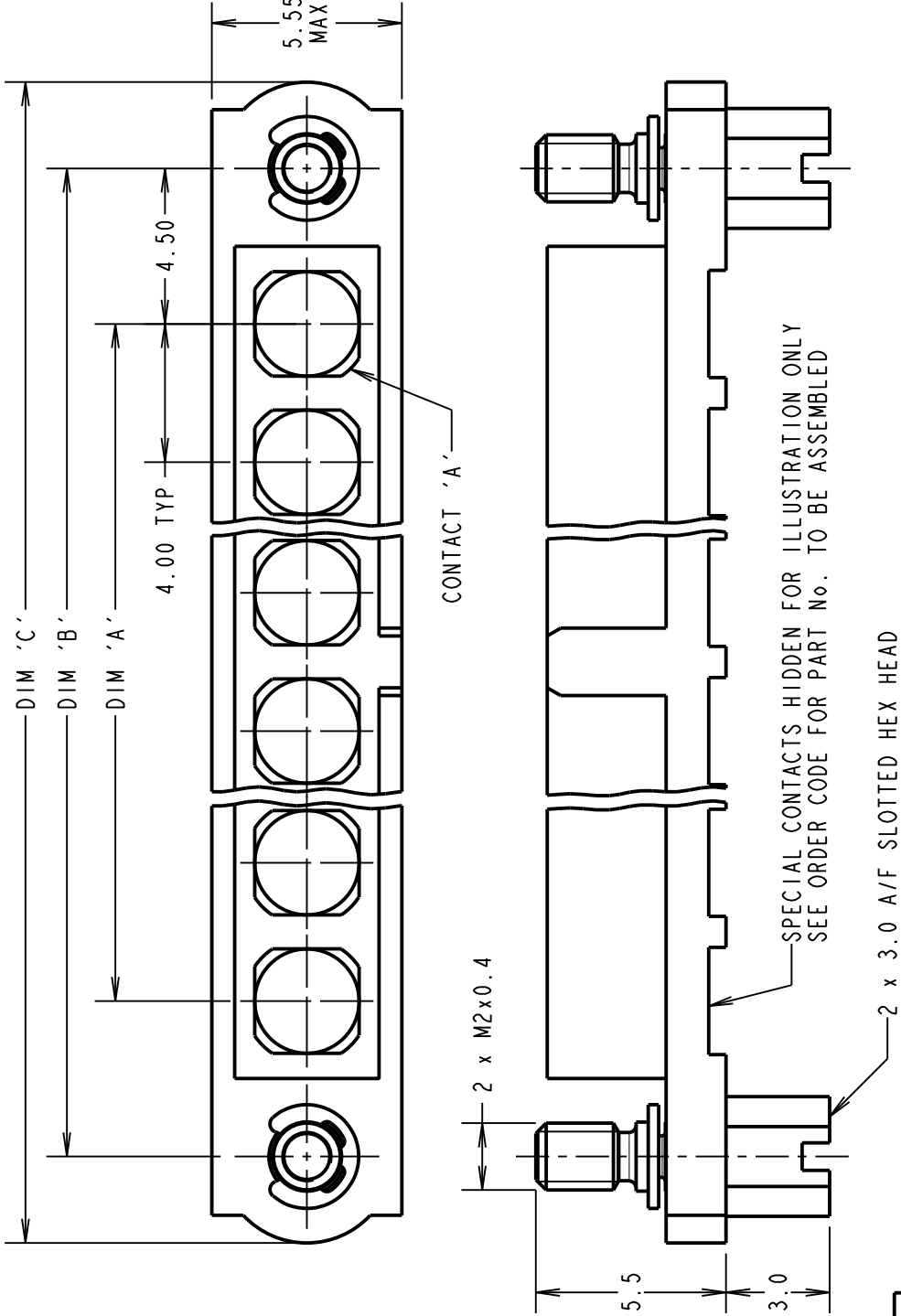
M80-321/322 = 8N MAX
M80-PFI/PF2 = 15N MAX

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



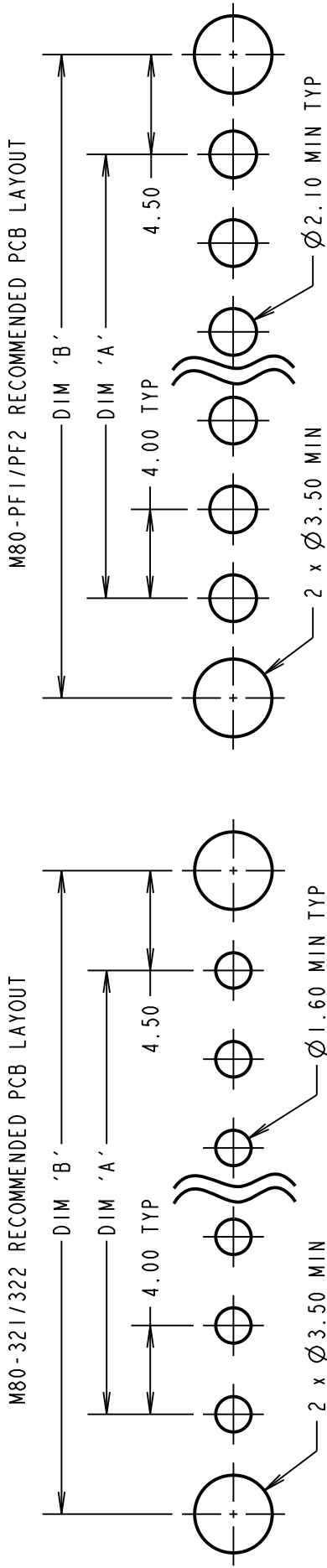
ORDER CODE:
(POWER PC TAIL VERTICAL CONTACTS ONLY)

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
PFI = 40A POWER CONTACT PC TAIL 3.5mm M80-PFI
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-PFI = 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	



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

TOLERANCES X. = ±1mm X.X = ±0.25mm X.XX = ±0.10mm X.XXX = ±0.01mm ANGLES = ±5° UNLESS STATED		MATERIAL: SEE ABOVE	TITLE: DATAMATE MIX-TEK FEMALE ASSEMBLY WITH JACKSCREW
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S/AREA: mm ²		SHT 9 OF 10	

Customer Information Sheet

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:

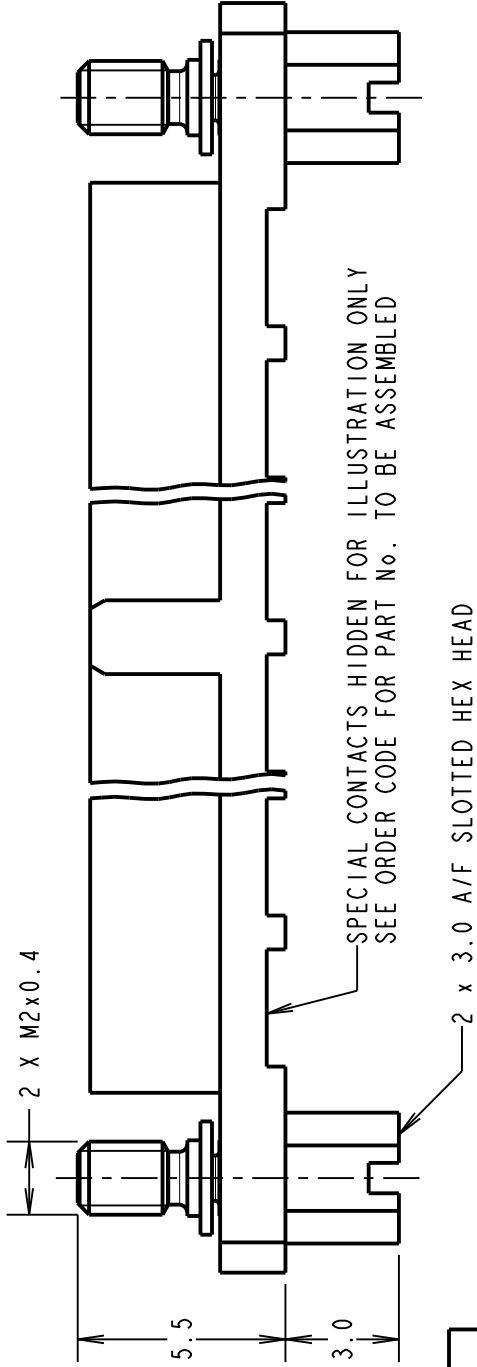
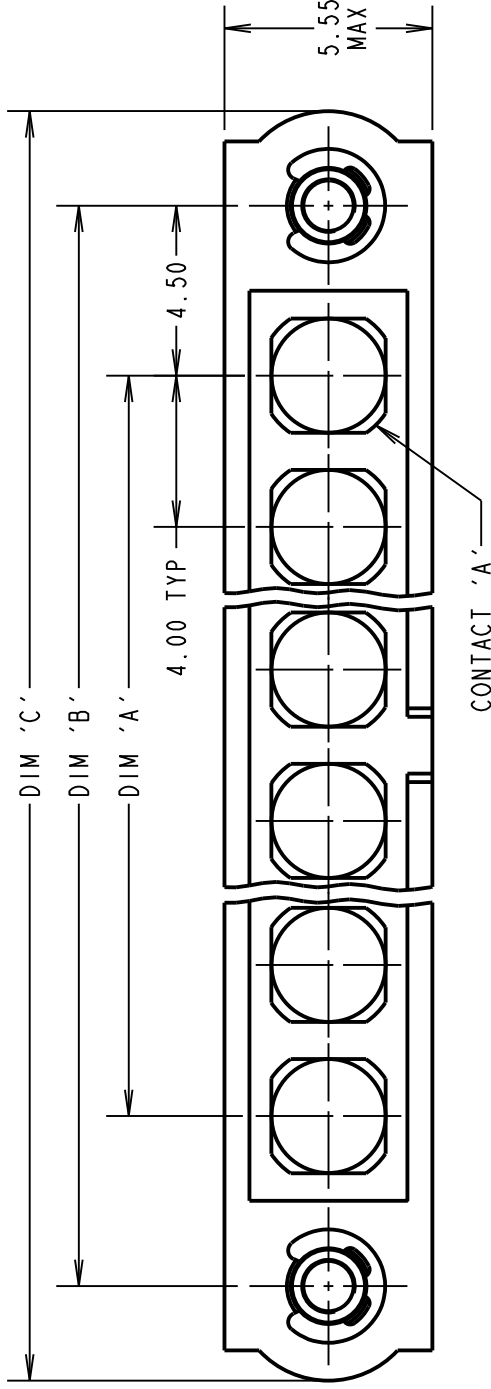
TEMPERATURE RANGE = -55°C TO +150°C

PACKING:

TUBE

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION C005XX (LATEST ISSUE)

POWER PC TAIL HORIZONTAL CONTACTS ONLY

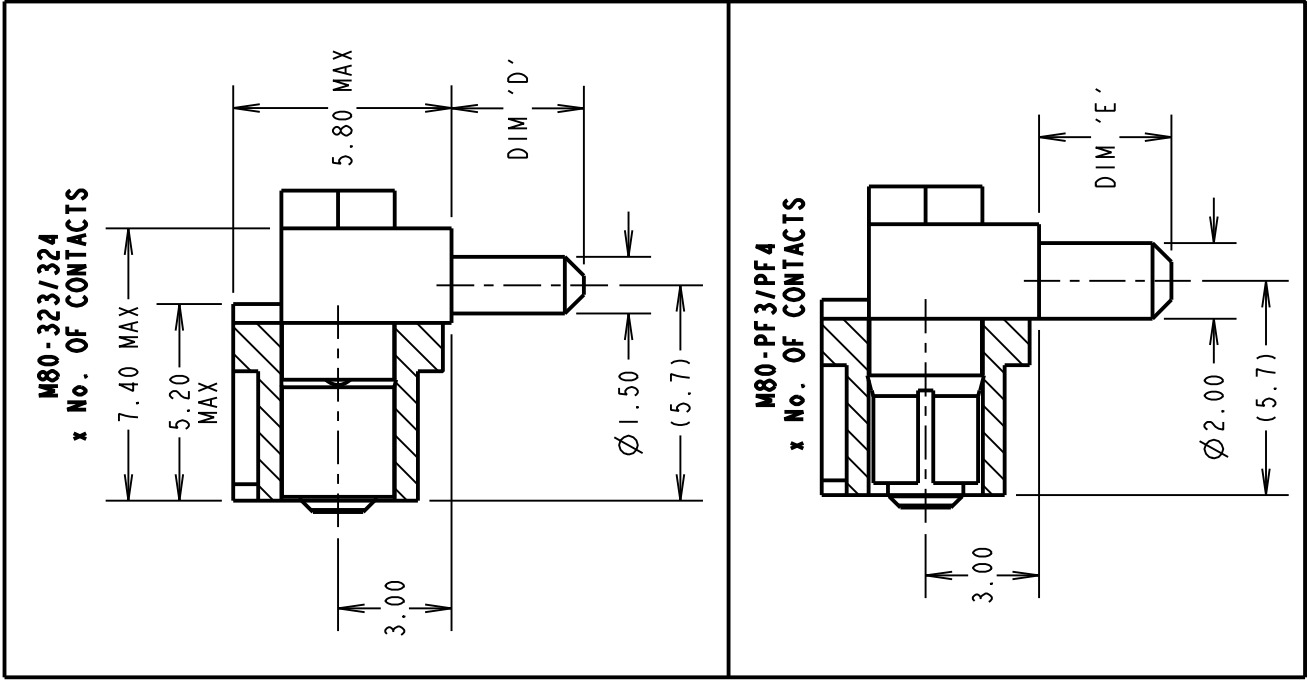


ORDER CODE:
(POWER PC TAIL HORIZONTAL CONTACTS ONLY)
M80-4000000FI-XX-XXX-00-000

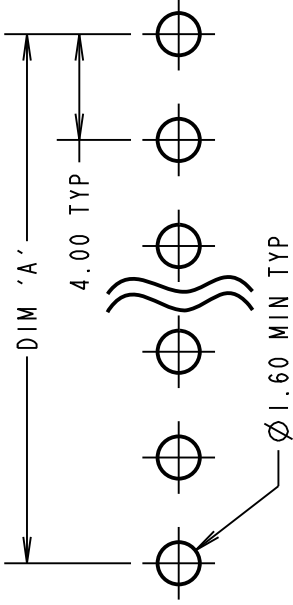
TOTAL No. OF CONTACTS
02 TO 12

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

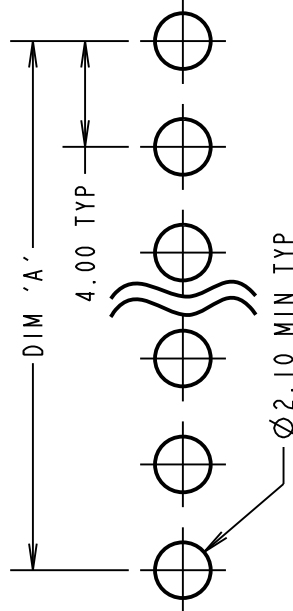
DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.00
DIM 'D'	M80-323 = 3.50mm, M80-324 = 5.00mm
DIM 'E'	M80-PF3 = 3.50mm, M80-PF4 = 5.00mm
EXAMPLE: CONNECTOR WITH 10 POWER CONTACTS, M80-4000000FI-10-323-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm, DIM 'D' = 3.50mm	



M80-323/324 RECOMMENDED PCB LAYOUT



M80-PF3/PF4 RECOMMENDED PCB LAYOUT



MGP	7	20.03.14	12429
NAME	ISS.	DATE	C/NOTE
APPROVED: MGP			
CHECKED: SB			
DRAWN: R.ADDE			
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:
DATAMATE MIX-TEK
FEMALE ASSEMBLY
WITH JACKSCREW

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

SHT
10
OF