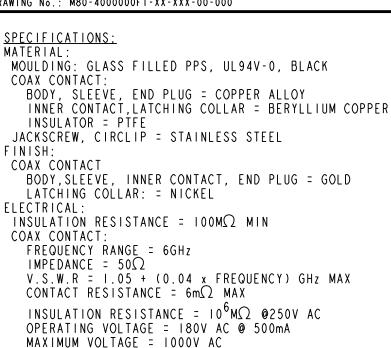
Customer Information

COAX CRIMP/SOLDER CONTACTS ONLY

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



MECHANICAL:

COAX CONTACT:

ENVIRONMENTAL:

TOTAL No. OF CONTACTS _

02 TO 12

SPECIAL CONTACTS

PACKING:

DURABILITY = 500 OPERATIONS

INSERTION FORCE = 8N MAX WITHDRAWAL FORCE = 0.5N MIN

TEMPERATURE RANGE = -55°C TO +125°C

ORDER CODE: (COAX CRIMP/SOLDER)

305 = COAX CONTACT CRIMP 2.0mm M80-305 306 = COAX CONTACT CRIMP 2.4mm M80-306

M80-400000FI-XX-XXX-00-000

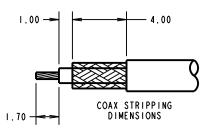
'A' = 28.00mm, DIM 'B' = 37.00mm,

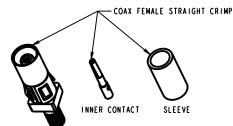
DIM 'C' = 42.0mm

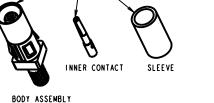
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COOSXX (LATEST ISSUE)

$2 \times M2 \times 0.4$ $2 \times 3.0 \text{ A/F}$ SLOTTED HEX HEAD

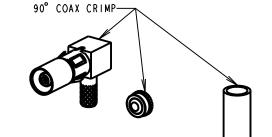
LATCHING COLLAR--SLEEVE INSULATOR-







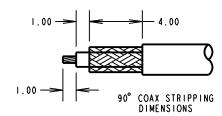
4.00 TYP



5.55

MAX

-CONTACT 'A'



(10.3)

M80-305/306/307

x No. OF CONTACTS

M80-308/309

x No. OF CONTACTS

-(9.7)-

ISS.

APPROVED: MGP

CHECKED:

04.12.19 21540

C/NOTE

DATE

NOTES:

- I. 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.

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technical@harwin.com	1.

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TOLERANCES X. = ±1mm X.X = ±0.50mm X.XX = ±0.20mm

MATERIAL: SEE ABOVE FINISH:

TITLE:

FEMALE ASSEMBLY WITH JACKSCREW

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

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 + 10.0 EXAMPLE: CONNNECTOR WITH 08 COAX CONTACTS. M80-400000FI-08-305-00-000

DRAWN: R. ADDE CUSTOMER REF.: ASSEMBLY DRG: DATAMATE MIX-TEK

OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION

.XXX = ±0.01mm ANGLES = ±5° UNLESS STATED

SEE ABOVE S/AREA:

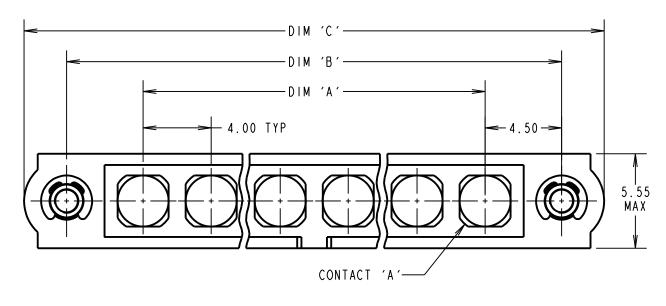
DRAWING NUMBER:

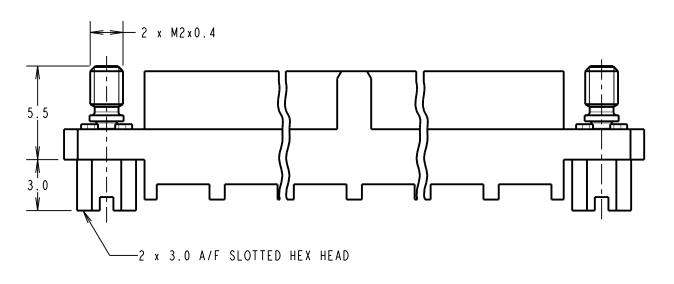
Customer Information

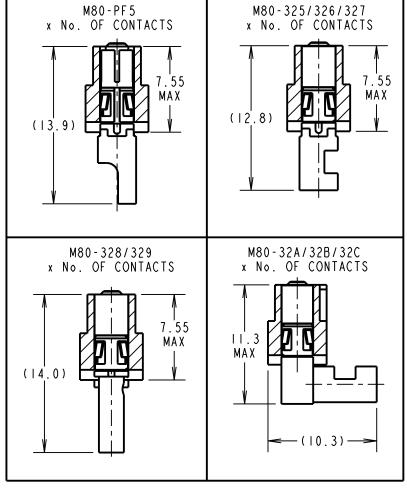
DRAWING No.: M80-4000000FI-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

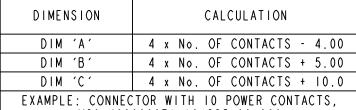
SPECIFICATIONS: MATERIAL: MOULDING: GLASS FILLED PPS, UL94V-O, BLACK POWER CONTACT: BODY = COPPER ALLOY LATCHING COLLAR = BERYLLIUM COPPER JACKSCREW, CIRCLIP = STAINLESS STEEL FINISH: POWER CONTACT: BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD LATCHING COLLAR = NICKEL ELECTRICAL: WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC INSULATION RESISTANCE = $100M\Omega$ MIN POWER CONTACT: CONTACT RESISTANCE = $6m\Omega$ MAX CURRENT RATING = M80-325 = 20A MAX WITH I2AWG M80-326 = 15A MAX WITH 14AWG M80-327 = IOA MAX WITH I6AWG M80-328 = 8A MAX WITH 18AWG M80-329 = 5A MAX WITH 20AWGM80-32A = 20A MAX WITH 12AWG M80-32B = 15A MAX WITH 14AWG M80-32C = 10A MAX WITH 16AWG M80-PF5 = 40A MAX WITH IOAWG CONTACT AS SPECIFIED MECHANICAL: DURABILITY = 500 OPERATIONS POWER CONTACT: INSERTION FORCE: M80-325/326/327/328/329/ 32A/32B/32C = 8N MAXM80-PF5 = I5N MAX WITHDRAWAL FORCE = 0.5N MIN ENVIRONMENTAL: TEMPERATURE RANGE: M80-325/326/327/328/329/ $32A/32B/32C = -55^{\circ}C TO + 125^{\circ}C$ $M80-PF5 = -55^{\circ}C TO + 150^{\circ}C$ PACKING: BAG FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

POWER CRIMP AND SOLDER CONTACTS ONLY









M80-400000FI-10-325-00-000 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm

I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE. 2. FOR EXTRA POWER CONTACTS, USE PART NUMBER

5.00 MIN

POWER CABLE

- M80-325/326/327/328/329/32A/32B/32C/PF5.
- 3. POWER AND CONTACT EXTRACTION TOOL = Z80-290.
- INSTRUCTION SHEETS ARE AVAILABLE.
- RECOMMENDED HAND CRIMP TOOL FOR INNER COAX CONTACT = Z80-292 WITH POSITIONER Z80-291. RECOMMENDED HAND CRIMP TOOL AND DIE SET FOR SLEEVE = Z80-293.

HAMIL	100.	טאונ	C/NOT
APPRO	OVED:	MGP	
CHECK	KED:	MR	
DRAWN	l:	R.ADDE	
CUSTO	MER F	REF.:	

04.12.19 21540

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TOLERANCES X. = ±1mm X.X = ±0.50mm X.XX = ±0.20mm $.XXX = \pm 0.01$ mm

MATERIAL: SEE ABOVE SEE ABOVE DATAMATE MIX-TEK FEMALE ASSEMBLY WITH JACKSCREW

ASSEMBLY DRG:

DRAWING NUMBER:

M80-400000FI-XX-XXX-00-000 OF

www.harwin.com technical@harwin.com

ANGLES = ±5° UNLESS STATED

FINISH: S/AREA:

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 PF5 = POWER CONTACT SOLDER 10AWG M80-PF5

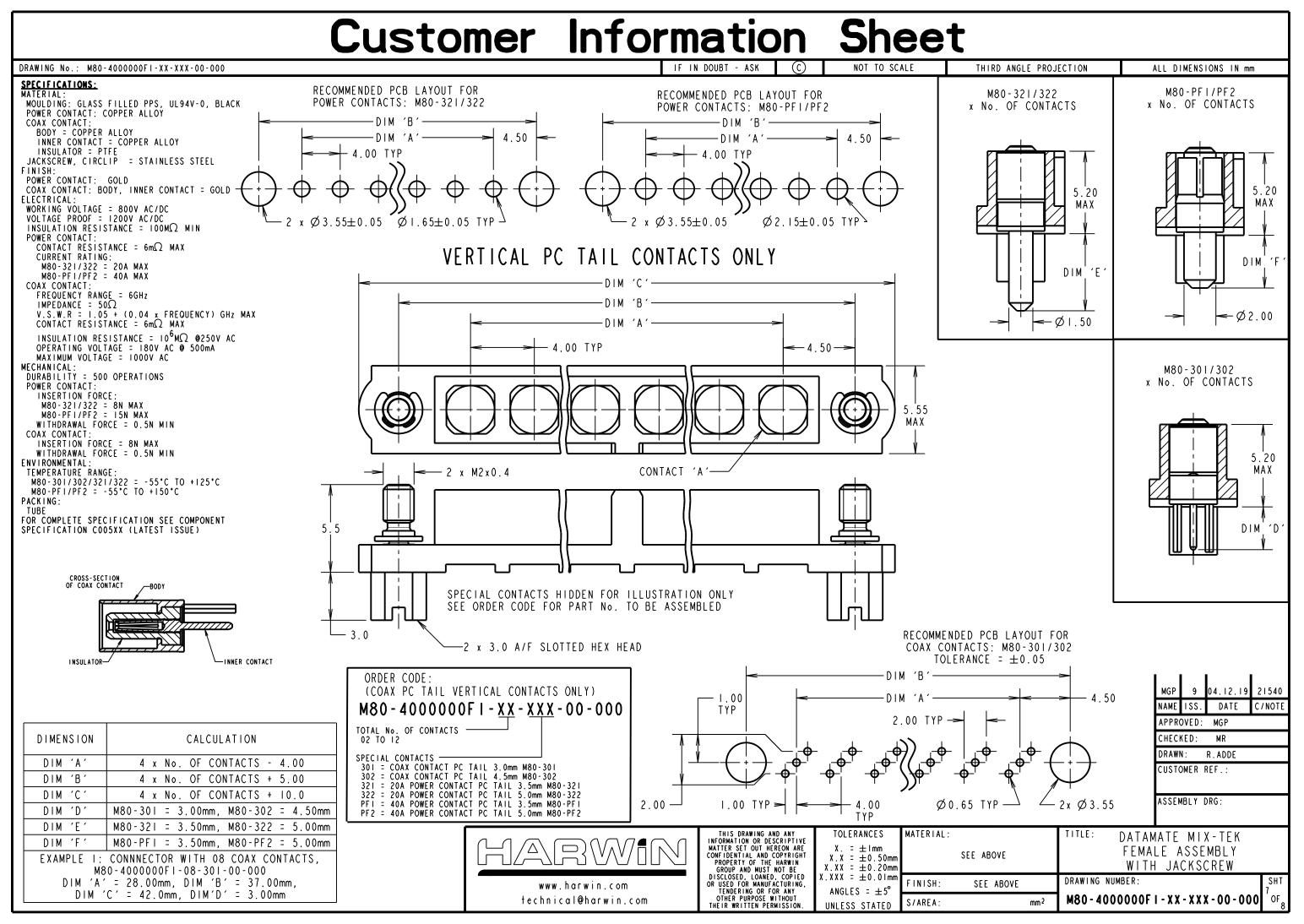
ORDER CODE: (POWER CRIMP/SOLDER)

TOTAL No. OF CONTACTS ___

02 TO 12

SPECIAL CONTACTS.

M80-400000FI-XX-XXX-00-000



Customer Information Sheet NOT TO SCALE DRAWING No.: M80-4000000FI-XX-XXX-00-000 THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SPECIFICATIONS: M80-323/324 MATERIAL: x No. OF CONTACTS MOULDING: GLASS FILLED PPS, UL94V-0, BLACK POWER CONTACT: COPPER ALLOY -7.40 MAX — HORIZONTAL POWER PC TAIL CONTACTS ONLY JACKSCREW, CIRCLIP: STAINLESS STEEL · 5 . 20 —> FINISH: MAX POWER CONTACT: 20A = 0.25μm MIN GOLD OVER NICKEL 40A = 0.76 µm MIN GOLD OVER NICKEL -DIM 'C ' **ELECTRICAL:** WORKING VOLTAGE = 800V AC/DC 5.80 MAX VOLTAGE PROOF = 1200V AC/DC INSULATION RESISTANCE = $100M\Omega$ MIN 3.00 POWER CONTACT: 4.00 TYP -<-- 4.50 **->** CONTACT RESISTANCE = $6m\Omega$ MAX CURRENT RATING: M80 - 323/324 = 20A MAXM80-PF4/PF4 = 40A MAX MECHANICAL: 5.55 DURABILITY = 500 OPERATIONS MAXPOWER CONTACT: - DIM 'D Ø1.50 INSERTION FORCE: M80 - 323/324 = 8N MAXM80-PF3/PF4 = I5N MAX -(5.7) WITHDRAWAL FORCE = 0.5N MIN CONTACT 'A ENVIRONMENTAL: M80-PF3/PF4 2 X M2x0.4 TEMPERATURE RANGE = -55°C TO +150°C x No. OF CONTACTS PACKING: -7.40 MAX-FOR COMPLETE SPECIFICATION SEE COMPONENT 5.20-SPECIFICATION COO5XX (LATEST ISSUE) MAX SPECIAL CONTACTS HIDDEN FOR ILLUSTRATION ONLY SEE ORDER CODE FOR PART No. TO BE ASSEMBLED ORDER CODE: -2 x 3.0 A/F SLOTTED HEX HEAD DIM''E' (POWER PC TAIL HORIZONTAL CONTACTS ONLY) M80-4000000FI-XX-XXX-00-000 \emptyset 2.00 TOTAL No. OF CONTACTS -(5.7) 02 TO 12 SPECIAL CONTACTS -RECOMMENDED PCB LAYOUT FOR RECOMMENDED PCB LAYOUT FOR 323 = 20A POWER CONTACT PC TAIL 3.5mm M80-323 POWER CONTACTS: M80-323/324 324 = 20A POWER CONTACT PC TAIL 5.0mm M80-324 PF3 = 40A POWER CONTACT PC TAIL 3.5mm M80-PF3 POWER CONTACTS: M80-PF3/PF4 04.12.19 21540 TOLERANCE = ± 0.05 TOLERANCE = ± 0.05 PF4 = 40A POWER CONTACT PC TAIL 5.0mm M80-PF4 DATE C/NOTE APPROVED: MGP 4.00 TYP 4.00 TYP CHECKED: MR DRAWN: R.ADDE CUSTOMER REF.:

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 + 10.0
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,

M80-400000FI-I0-323-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm, DIM 'D' = 3.50mm



Ø1.65 TYP

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TOLERANCES X. = ±1mm X.X = ±0.50mm X.XX = ±0.20mm $.XXX = \pm 0.01$ mm

MATERIAL: FINISH:

Ø2.15 TYP

SEE ABOVE

TITLE: DATAMATE MIX-TEK FEMALE ASSEMBLY WITH JACKSCREW

DRAWING NUMBER:

ASSEMBLY DRG:

SEE ABOVE ANGLES = ±5° M80-4000000FI-XX-XXX-00-000 OF. technical@harwin.com UNLESS STATED S/AREA:

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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M80-400000FC-03-325-00-000