Customer Information

DRAWING No.: M80-4000000FI-XX-XXX-00-000 IF IN DOUBT - ASK

SLOTTED HEX HEAD

1.00 -

1.70

LATCHING COLLAR

INSULATOR-

SPECIFICATIONS: MATERIAL: MOULDING: GLASS FILLED PPS, UL94V-O, 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 = $100M\Omega$ MIN

COAX CONTACT: FREQUENCY RANGE = 6GHz

IMPEDANCE = 50Ω V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX CONTACT RESISTANCE = $6m\Omega$ MAX

INSULATION RESISTANCE = $10^6 \text{M}\Omega$ @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

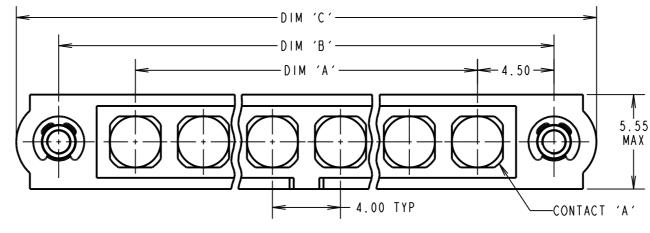
ENVIRONMENTAL:

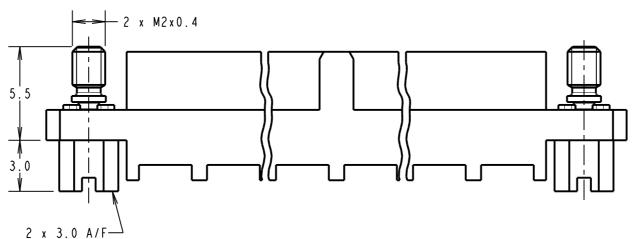
TEMPERATURE RANGE = -55°C TO +125°C

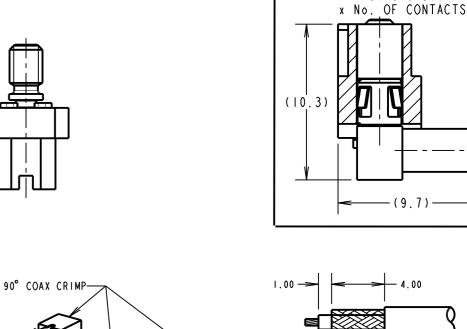
PACKING:

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

COAX CRIMP/SOLDER CONTACTS ONLY







THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

7.55

MAX

M80-305/306/307

x No. OF CONTACTS

M80-308/309

(9.7)

DIMENSIONS

188.

APPROVED:

12997

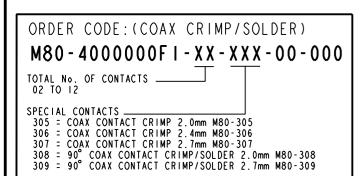
C/NOTE

11.08.15

M.PERRE

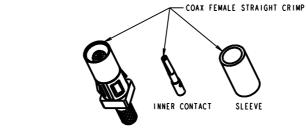
DATE

(13.4)

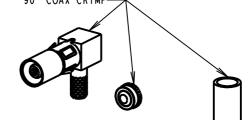


DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.00

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







COLLAR ARE PRE-ASSEMBLED. SLEEVE AND INNER C 3. FOR EXTRA COAX CONTACTS, USE PART NUMBER M80
4. RECOMMENDED HAND CRIMP TOOL FOR COAX INNER CO

Z80-291 AND RECOMMENDED HAND CRIMP TOOL AND

NOT TO SCALE

COAX CONTACT EXTRACTION TOOL = Z80-290.

6. INSTRUCTION SHEETS ARE AVAILABLE.

BODY, INSULATOR AND LA	TCHING	CHECKED:	S.BENNETT
CONTACT ARE SEPARATE.		DRAWN:	R.ADDE
0-305/306/307/308/309 CONTACT = Z80-292 WITH DIE SET FOR COAX SLEEV	CUSTOMER R	EF.:	
		ASSEMBLY D	RG:
TERIAL:		AMATE MIX	

1.00



-SLEEVE

- 4.00

COAX STRIPPING

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X. = ±1mm X.X = ±0.50mm X.XX = ±0.10mm $X.XXX = \pm 0.01mm$ ANGLES = ±5° UNLESS STATED

TOLERANCES

SEE ABOVE FINISH: SEE ABOVE S/AREA:

FEMALE ASSEMBLY WITH JACKSCREW

DRAWING NUMBER:

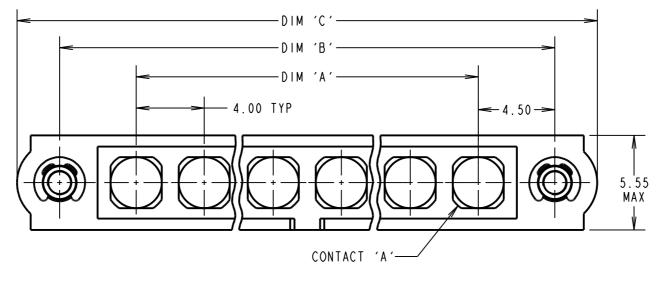
M80-400000Fi-XX-XXX-00-000

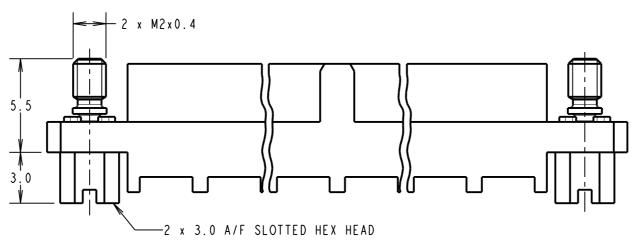
Customer Information

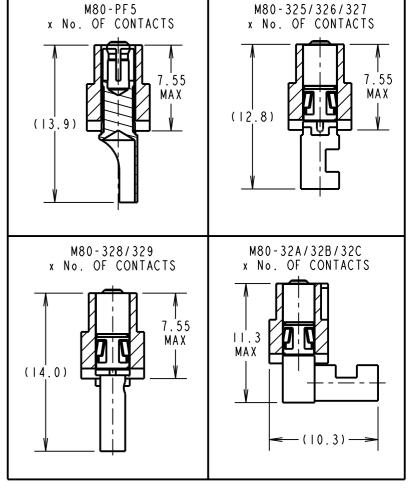
DRAWING No.: M80-4000000FI-XX-XXX-00-000 IF IN DOUBT - ASK NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

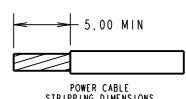
SPECIFICATIONS: MATERIAL: MOULDING: GLASS FILLED PPS, UL94V-O, BLACK POWER CONTACT: BODY = COPPER ALLOY LATCHING COLLAR = BERYLLIUM COPPER JACKSCREW. CIRCLIP = STAINLESS STEEL FINISH: POWER CONTACT: BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD LATCHING COLLAR = NICKEL ELECTRICAL: WORKING VOLTAGE = 800V 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 20AWG M80-32A = 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 FNVIRONMENTAL: 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:

POWER CRIMP AND 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		

EXAMPLE: CONNECTOR WITH 10 POWER CONTACTS, M80-400000FI-10-325-00-000 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm

- I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE. 2. FOR EXTRA POWER CONTACTS, USE PART NUMBER M80-325/326/327/328/329/32A/32B/32C/PF5.
- 3. POWER AND CONTACT EXTRACTION TOOL = Z80-290.
- 4. INSTRUCTION SHEETS ARE AVAILABLE.
- 5. 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.

NAME	ISS.	DATE	C/NOTE	
APPRO	OVED:	M.PER	REN	
CHECKED: S.BENNETT				
DRAW	N :	R.ADDE		
CUSTOMER REF.:				

11.08.15 12997

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TOLERANCES X. = ±1mm X.X = ±0.50mm X.XX = ±0.10mm $X.XXX = \pm 0.01$ mm

MATERIAL: SEE ABOVE FINISH:

DATAMATE MIX-TEK FEMALE ASSEMBLY WITH JACKSCREW

ASSEMBLY DRG:

DRAWING NUMBER:

ANGLES = ±5° UNLESS STATED

SEE ABOVE S/AREA:

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

TOTAL No. OF CONTACTS __ 02 TO 12 SPECIAL CONTACTS 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

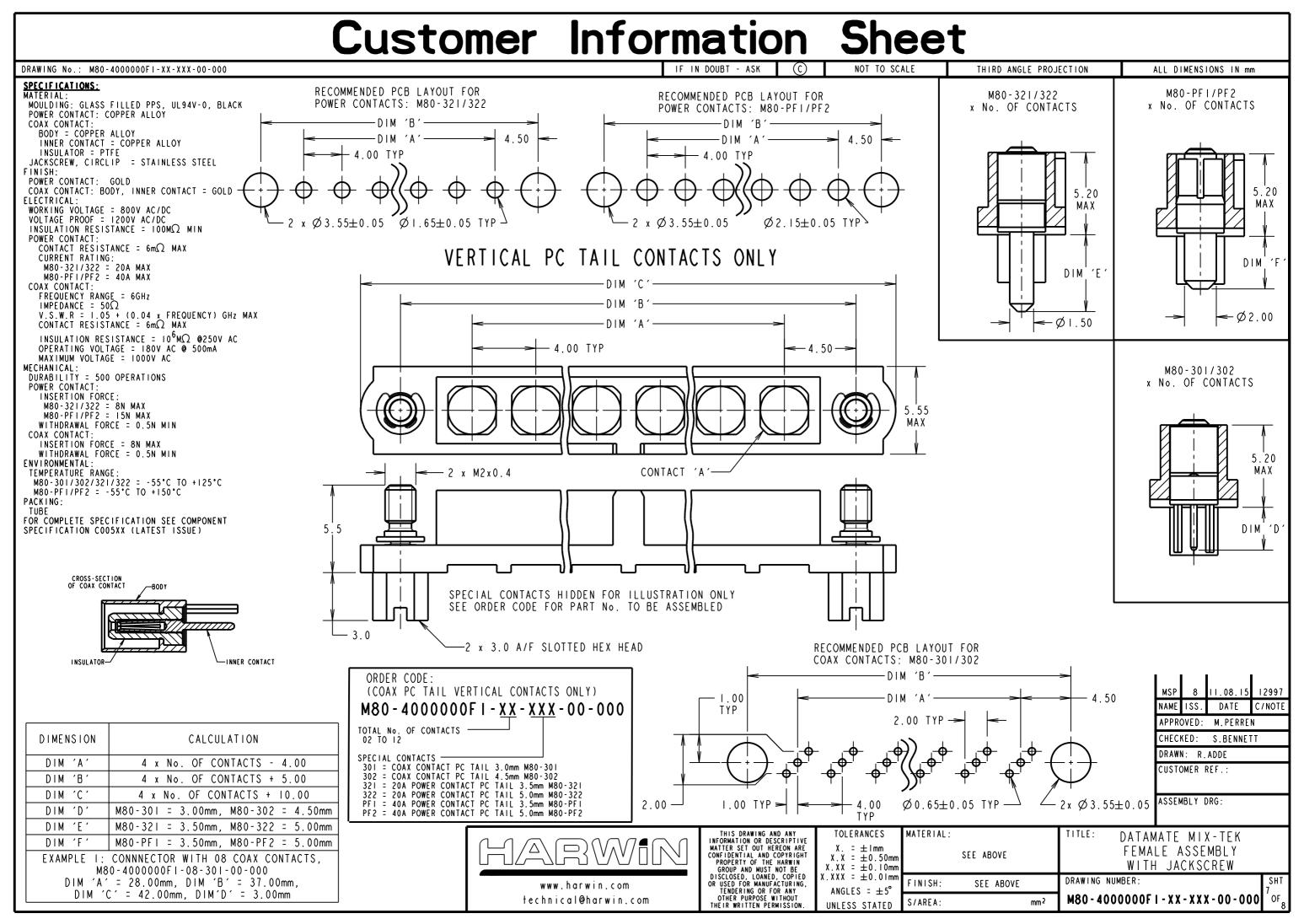
PF5 = POWER CONTACT SOLDER 10AWG M80-PF5

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

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

ORDER CODE: (POWER CRIMP/SOLDER)

BAG



Customer Information Sheet

DRAWING No.: M80-4000000FI-XX-XXX-00-000

SPECIFICATIONS:
MATERIAL:
X No. OF CONTACTS

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 = $100\text{M}\Omega$ MIN POWER CONTACT:

CONTACT RESISTANCE = $6m\Omega$ 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

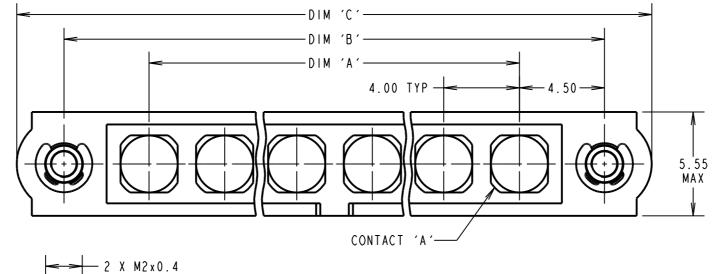
ENVIRONMENTAL:

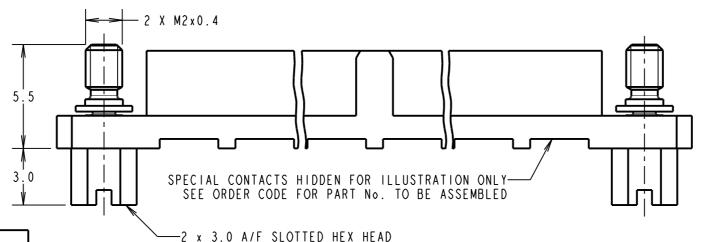
TEMPERATURE RANGE = -55°C TO +150°C PACKING:

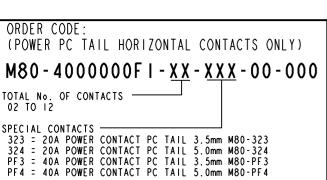
TUBE

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COOSXX (LATEST ISSUE)

HORIZONTAL POWER PC TAIL CONTACTS ONLY



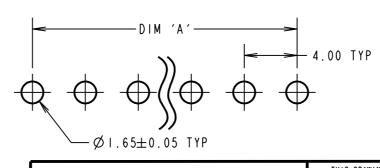


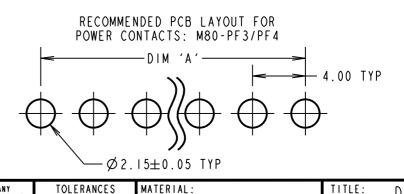


DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.00
DIM 'D'	M80-323 = 3.50mm, M80-324 = 5.00mm
DIM 'F'	M80-PF3 = 3.50mm. M80-PF4 = 5.00mm

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

RECOMMENDED PCB LAYOUT FOR POWER CONTACTS: M80-323/324





I		l 1	I
MSP	8	11.08.15	12997
NAME	ISS.	DATE	C/NOTE
APPROVED: M.PERREN			
CHECKED: S.BENNETT			
DRAWN: R.ADDE			
CUSTOMER REF.:			
ASSEM	MBLY (ORG:	

DIM 'E'

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technical@harwin.com

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X. = ±1mm X.X = ±0.50mm X.XX = ±0.10mm X.XXX = ±0.01mm ANGLES = ±5°

UNLESS STATED

MATERIAL:

SEE ABOVE

FINISH: SEE ABOVE

S/AREA:

TITLE: DATAMATE MIX-TEK FEMALE ASSEMBLY WITH JACKSCREW

−7.40 MAX ----

5.80 MAX

DIM 'D

5.20-

MAX

Ø1.50

-(5.7)

MAX

Ø2.00

M80-PF3/PF4

x No. OF CONTACTS

-7.40 MAX ->

3.00

3.00

(5.7)

DRAWING NUMBER:

M80-4000000F1-XX-XXX-00-000