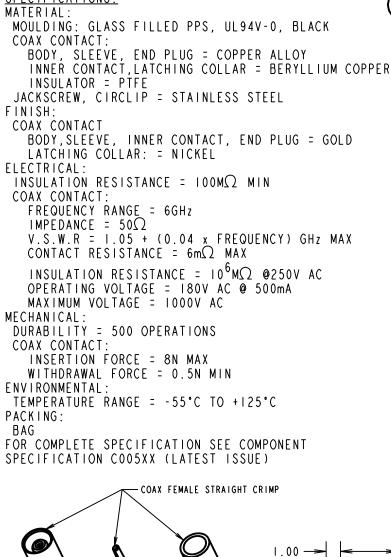
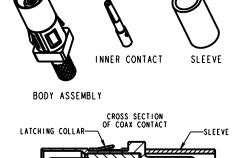
## Customer Information Sheet NOT TO SCALE DRAWING No.: M80-4000000FS-XX-XXX-00-000 THIRD ANGLE PROJECTION COAX CRIMP AND SOLDER CONTACTS ONLY SPECIFICATIONS: MOULDING: GLASS FILLED PPS, UL94V-0, BLACK COAX CONTACT: -DIM 'C

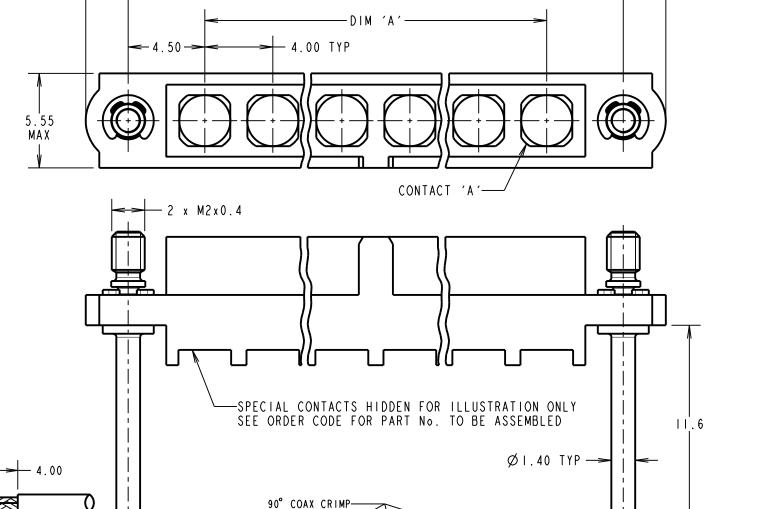


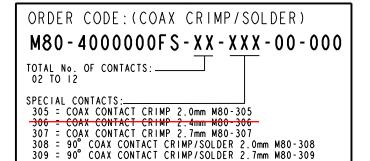


INNER CONTACT

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, M80-400000FS-08-305-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mm





COAX STRIPPING DIMENSIONS

2 x Ø 3.00

NOTES:

CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
 COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, INSULATOR AND LATCHING COLLAR ARE PRE-ASSEMBLED. SLEEVE AND INNER CONTACT ARE SEPARATE.

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.

COAX CONTACT EXTRACTION TOOL = Z80-290.

6. INSTRUCTION SHEETS ARE AVAILABLE.



TOLERANCES			MATI
		± lmm	
X . X		±0.50mm ±0.20mm	
	-	±0.20mm	
X . X X X	=	±0.01mm	FIN

ERIAL:		
	SEE ABOVE	
IISH:	SEE ABOVE	

DATAMATE MIX-TEK FEMALE ASSY WITH EXTENDED JACKSCREW

ALL DIMENSIONS IN mm

7.55

MAX

M80-305/<del>306</del>/307

x No. OF CONTACTS

M80-308/309

x No. OF CONTACTS

– (9.7) —

APPROVED: MGP

CUSTOMER REF.:

ASSEMBLY DRG:

CHECKED:

DRAWN:

DATE

M.G.PLESTED

C/NOTE

(13.4)

10.30

MAX

DRAWING NUMBER:

COAX STRIPPING DIMENSIONS

M80-400000FS-XX-XXX-00-000 of.



ANGLES = ±5° UNLESS STATED

1.00

## Customer Information Sheet NOT TO SCALE DRAWING No.: M80-4000000FS-XX-XXX-00-000 THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SPECIFICATIONS: M80-328/329 M80-325/326/327 POWER CRIMP AND SOLDER CONTACTS ONLY MATERIAL: x No. OF CONTACTS x No. OF CONTACTS MOULDING: GLASS FILLED PPS, UL94V-O, BLACK POWER CONTACT: BODY = COPPER ALLOY LATCHING COLLAR = BERYLLIUM COPPER JACKSCREW. CIRCLIP = STAINLESS STEEL 7.55 7.55 MAX FINISH: MAX (12.8)POWER CONTACT: BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD (14.0)LATCHING COLLAR = NICKEL 4.00 TYP **←** 4.50 → ELECTRICAL: WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC INSULATION RESISTANCE = $100M\Omega$ MIN POWER CONTACT: 5.55 CONTACT RESISTANCE = $6m\Omega$ MAX MAXCURRENT RATING = M80-325 = 20A MAX WITH I2AWG M80-326 = 15A MAX WITH 14AWG M80-327 = IOA MAX WITH 16AWG M80-32A/32B/32C M80-328 = 8A MAX WITH 18AWG M80-PF5 CONTACT 'A x No. OF CONTACTS M80-329 = 5A MAX WITH 20AWG x No. OF CONTACTS M80-32A = 20A MAX WITH I2AWGM80-32B = 15A MAX WITH 14AWG M80-32C = 10A MAX WITH 16AWG M80-PF5 = 40A MAX WITH IOAWG CONTACT AS SPECIFIED $2 \times M2 \times 0.4$ 11.20 MECHANICAL: MAXMAX DURABILITY = 500 OPERATIONS POWER CONTACT: (13.9)INSERTION FORCE: M80-325/326/327/328/329/ 32A/32B/32C = 8N MAXM80-PF5 = I5N MAXWITHDRAWAL 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: SPECIAL CONTACTS HIDDEN FOR ILLUSTRATION ONLY BAG SEE ORDER CODE FOR PART No. TO BE ASSEMBLED FOR COMPLETE SPECIFICATION SEE COMPONENT 11.6 SPECIFICATION COO5XX (LATEST ISSUE) <u>---</u> 1.40 TΥΡ ORDER CODE: (POWER CRIMP/SOLDER) - 1.60 M80-400000FS-XX-XXX-00-000 9.12.19 21540 TOTAL No. OF CONTACTS: \_ 02 TO 12 ISS. DATE C/NOTE POWER CABLE 2 x Ø 3.00 --SPECIAL CONTACTS: APPROVED: MGP 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 STRIPPING DIMENSIONS I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE. CHECKED: FOR EXTRA POWER CONTACTS, USE PART NUMBERS: M80-325/326/327/328/329/32A/32B/32C/PF5. DRAWN: M.G.PLESTED POWER CONTACT EXTRACTION TOOL = Z80-290. CUSTOMER REF.: 32A = 90° POWER CONTACT SOLDER 12AWG M80-32A 4 INSTRUCTION SHEETS ARE AVAILABLE. DIMENSION CALCULATION 32B = 90° POWER CONTACT SOLDER 14AWG M80-32B 32C = 90° POWER CONTACT SOLDER 16AWG M80-32C PF5 = POWER CONTACT SOLDER 10AWG M80-PF5 RECOMMENDED HAND CRIMP TOOL FOR CONTACTS M80-328/329 = Z80-294 WITH POSITIONER Z80-295. ASSEMBLY DRG: DIM 'A' 4 x No. OF CONTACTS - 4.00 6. POWER CONTACT WIRE, STRIP BY 5.00mm MINIMUM. DIM 'B' 4 x No. OF CONTACTS + 5.00 THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER SET OUT HEREON ARE CONFIDENTIAL AND COPYRIGHT PROPERTY OF THE HARWIN GROUP AND MUST NOT BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING, TENDERING OR FOR ANY OTHER PURPOSE WITHOUT TOLERANCES MATERIAL: DIM 'C' 4 x No. OF CONTACTS + 10.0 X. = ±1mm DATAMATE MIX-TEK FEMALE ASSY EXAMPLE: CONNNECTOR WITH 08 POWER CONTACTS, $X.X = \pm 0.50 mm$ SEE ABOVE WITH EXTENDED JACKSCREW M80-400000FS-08-305-00-000 X.XX = ±0.20mm DIM 'A' = 28.00mm, DIM 'B' = 37.00mm,.XXX = ±0.01mm DRAWING NUMBER: FINISH: SEE ABOVE www.harwin.com DIM 'C' = 42.0 mmANGLES = ±5° M80-400000FS-XX-XXX-00-000 of. OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION

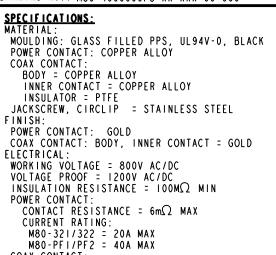
technical@harwin.com

S/AREA:

UNLESS STATED

## Customer Information

DRAWING No.: M80-400000FS-XX-XXX-00-000 IF IN DOUBT - ASK NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SPECIFICATIONS: RECOMMENDED PCB LAYOUT FOR RECOMMENDED PCB LAYOUT FOR CROSS-SECTION POWER CONTACTS: M80-321/322 POWER CONTACTS: M80-PF1/PF2 -BODY OF COAX CONTACT TOLERANCE =  $\pm 0.05$ mm



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

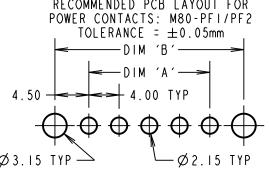
INSULATION RESISTANCE =  $10^6 \text{M}\Omega$  @250V AC OPERATING VOLTAGE = 180V AC @ 500mA
MAXIMUM VOLTAGE = 1000V AC

MECHANICAL: DURABILITY = 500 OPERATIONS POWER CONTACT: INSERTION FORCE: M80-321/322 = 8N MAX M80-PF1/PF2 = 15N MAX WITHDRAWAL FORCE = 0.5N MIN COAX CONTACT: INSERTION FORCE = 8N MAX WITHDRAWAL FORCE = 0.5N MIN **ENVIRONMENTAL:** TEMPERATURE RANGE M80-301/302/321/322 = -55°C TO +125°C

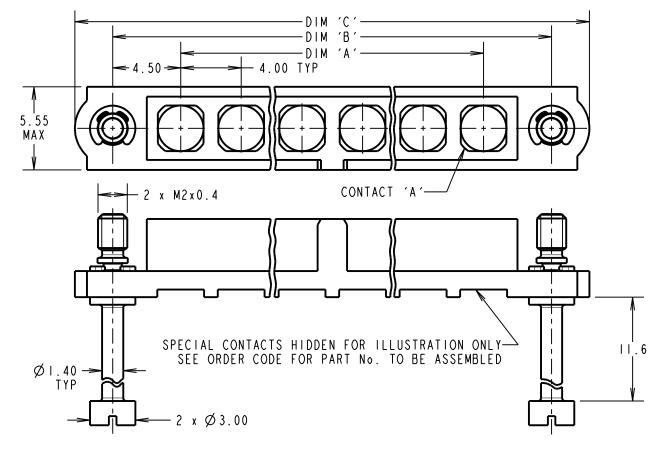
M80-PFI/PF2 = -55°C TO +150°C

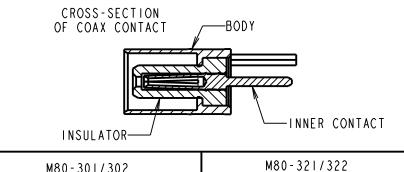
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COOSXX (LATEST ISSUE)

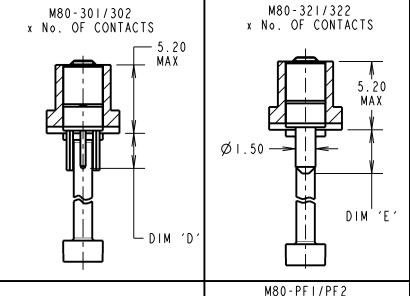
DIM 'B'-4.00 TYP Ø 3.15 TYP

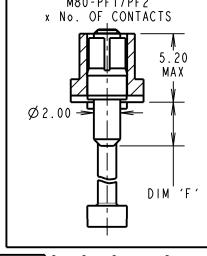


## TAIL VERTICAL CONTACTS









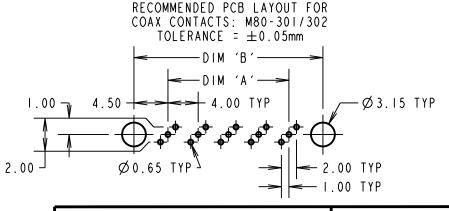
DIMENSION	CALCULATION		
DIM 'A'	4 x No. OF CONTACTS -4.00		
DIM 'B'	4 x No. OF CONTACTS + 5.00		
DIM 'C'	4 x No. OF CONTACTS + 10.0		
DIM 'D'	M80-301 = 3.00mm, M80-302 = 4.50mm		
DIM 'E'	M80-321 = 3.50mm, M80-322 = 5.00mm		
DIM 'F'	M80-PF1 = 3.50mm, M80-PF2 = 5.00mm		
EVANDLE L CONNA	ICCTOD WITH OO COAY CONTACTO		

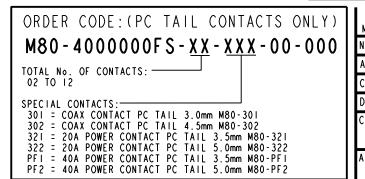
EXAMPLE I: CONNNECTOR WITH 08 COAX CONTACTS. M80-400000FS-08-30I-00-000

DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mm DIM 'D' = 3.00mm

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-400000FS-I0-32I-00-000

DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mmDIM 'E' = 3.50 mm





MGF	, 3	9.12.19	21540	
	E ISS.		C/NOTE	
APP	APPROVED: MGP			
CHECKED: RP				
DRA	DRAWN: M.G.PLESTED			
CUSTOMER REF.:				
ASS	EMBLY	DRG:		

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technical@harwin.com

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THEIR WRITTEN PERMISSION.

TOLERANCES X. = ±1mm  $X.X = \pm 0.50 mm$  $X.XX = \pm 0.20$ mm  $.XXX = \pm 0.01$ mm ANGLES = ±5°

UNLESS STATED

MATERIAL: FINISH:

S/AREA:

SEE ABOVE SEE ABOVE DATAMATE MIX-TEK FEMALE ASSY WITH EXTENDED JACKSCREW

DRAWING NUMBER:

M80-400000FS-XX-XXX-00-000 0F.

