Customer Information Sheet NOT TO SCALE DRAWING No.: M80-4000000FS-XX-XXX-00-000 THIRD ANGLE PROJECTION COAX CRIMP AND SOLDER CONTACTS ONLY <u>SPECIFICATIONS:</u> MATERIAL: MOULDING: GLASS FILLED PPS, UL94V-0, BLACK COAX CONTACT: ·DIM 'C BODY, SLEEVE, END PLUG = COPPER ALLOY INNER CONTACT, LATCHING COLLAR = BERYLLIUM COPPER INSULATOR = PTFE JACKSCREW. CIRCLIP = STAINLESS STEEL FINISH:

 $2 \times M2 \times 0.4$

4.00 TYP

4.50 ·

5.55

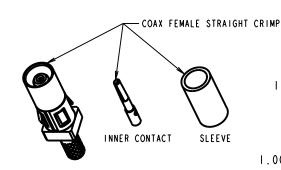
MAX

COAX STRIPPING DIMENSIONS

2 x Ø 3.00

COAX CONTACT BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD LATCHING COLLAR: = NICKEL ELECTRICAL: INSULATION RESISTANCE = 100M Ω 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

1.00



SPECIFICATION COO5XX (LATEST ISSUE)

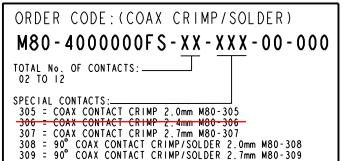
BAG

BODY ASSEMBLY LATCHING COLLAR-

INNER CONTAC

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



NOTES:

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

CONTACT 'A

Ø1.40 TYP ->

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.

11.6

- 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.

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90° COAX CRIMP

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OTHER PURPOSE WITHOUT

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

TOLERANCES

UNLESS STATED

MATERIAL: SEE ABOVE

SEE ABOVE

1.00

DATAMATE MIX-TEK FEMALE ASSY WITH EXTENDED JACKSCREW

DATE

M.G.PLESTED

APPROVED: MGP

CUSTOMER REF.:

ASSEMBLY DRG:

CHECKED:

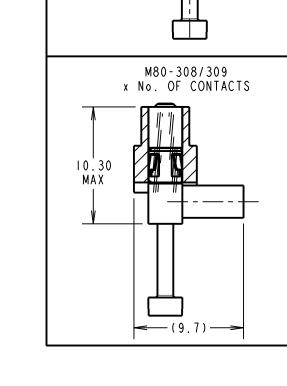
DRAWN:

C/NOTE

DRAWING NUMBER:

COAX STRIPPING DIMENSIONS

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



(13.4)

ALL DIMENSIONS IN mm

7.55

MAX

M80-305/306/307

x No. OF CONTACTS

ANGLES = ±5°

FINISH: S/AREA:

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°

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S/AREA:

UNLESS STATED

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

Customer Information Sheet



MOULDING: GLASS FILLED PPS, UL94V-0, BLACK POWER CONTACT: COPPER ALLOY COAX CONTACT:
BODY = COPPER ALLOY INNER CONTACT = COPPER ALLOY INSULATOR = PTFE JACKSCREW, CIRCLIP = STAINLESS STEEL COAX CONTACT: BODY, INNER CONTACT = GOLD ELECTRICAL: WORKING VOLTAGE = 800V AC/DC
VOLTAGE PROOF = 1200V AC/DC
INSULATION RESISTANCE = 100MΩ MIN POWER CONTACT: CONTACT RESISTANCE = $6m\Omega$ MAX CURRENT RATING: M80-321/322 = 20A MAX

M80-PFI/PF2 = 40A MAX 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

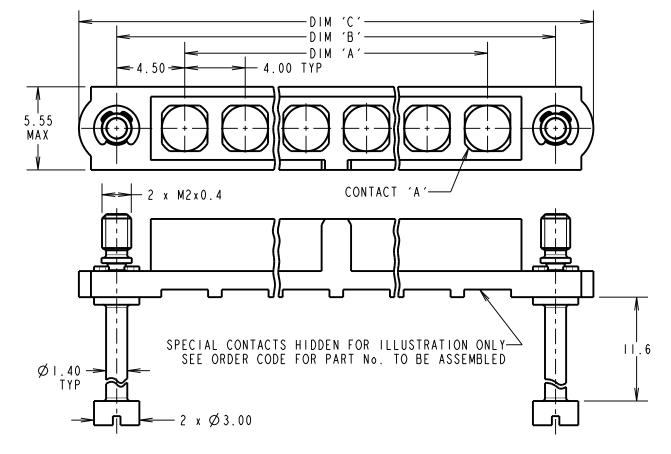
WITHDRAWAL FORCE = 0.5N MIN COAX CONTACT: INSERTION FORCE = 8N MAX WITHDRAWAL FORCE = 0.5N MIN **ENVIRONMENTAL:** TEMPERATURE RANGE

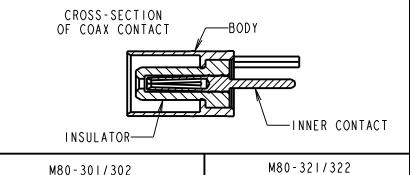
M80-301/302/321/322 = -55°C TO +125°C M80-PFI/PF2 = -55°C TO +150°C

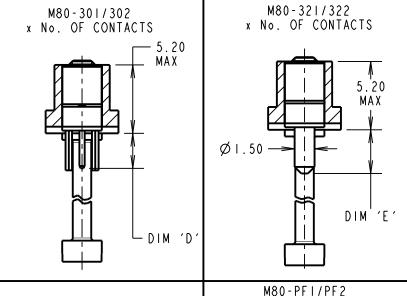
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COOSXX (LATEST ISSUE)

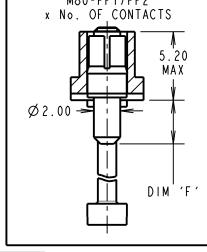
-DIM 'B'-DIM 'B'-4.00 TYP 4.00 TYP Ø 3.15 TYP

TAIL VERTICAL CONTACTS









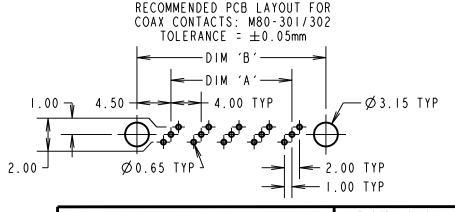
DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS -4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.0
DIM 'D'	M80-301 = 3.00mm, M80-302 = 4.50mm
DIM 'E'	M80-321 = 3.50mm, M80-322 = 5.00mm
DIM 'F'	M80-PF1 = 3.50mm, M80-PF2 = 5.00mm

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



ORDER CODE: (PC TAIL CONTACTS ONLY) M80-400000FS-XX-XXX-00-000 TOTAL No. OF CONTACTS: -SPECIAL CONTACTS: SPECIAL CONTACTS:

301 = COAX CONTACT PC TAIL 3.0mm M80-301
302 = COAX CONTACT PC TAIL 4.5mm M80-302
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

9.12.19 NAME ISS. DATE C/NOTE APPROVED: MGP CHECKED: DRAWN: M.G.PLESTED CUSTOMER REF.: ASSEMBLY DRG:

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

MATERIAL: FINISH: SEE ABOVE

S/AREA:

SEE ABOVE

DATAMATE MIX-TEK FEMALE ASSY WITH EXTENDED JACKSCREW

DRAWING NUMBER:

www.harwin.com technical@harwin.com

ANGLES = ±5° UNLESS STATED

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

