

Customer Information Sheet

DRAWING No.: M80-4000000F1-XX-XXX-00-000

SHEET 3 OF 4

IF IN DOUBT - ASK

(C)

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIAL:

MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
POWER & COAX CONTACT:
BODY = COPPER ALLOY
INNER CONTACT, LATCHING COLLAR = BERYLLIUM COPPER
INSULATOR = PTFE
JACKSCREW, CIRCLIP: STAINLESS STEEL
FINISH:
POWER & COAX CONTACT
BODY, SLEEVE, INNER CONTACT = GOLD
LATCHING COLLAR: = NICKEL

ELECTRICAL:

WORKING VOLTAGE = 120V AC/DC
VOLTAGE PROOF = 360V AC/DC
INSULATION RESISTANCE = 100M Ω MIN

POWER CONTACT:

CONTACT RESISTANCE = 6m Ω MAX
CURRENT RATING = 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

COAX CONTACT:

FREQUENCY RANGE = 6GHz
IMPEDANCE = 50 Ω
V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX
CONTACT RESISTANCE 6 m Ω MAX
INSULATION RESISTANCE = 10⁶M Ω @250V AC
OPERATING VOLTAGE = 180V AC @ 500mA
MAXIMUM VOLTAGE = 1000V AC

MECHANICAL:

DURABILITY = 500 OPERATIONS
POWER & COAX CONTACT:
INSERTION FORCE = 5N MAX
WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

PACKING:

BAG

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION C005XX (LATEST ISSUE)

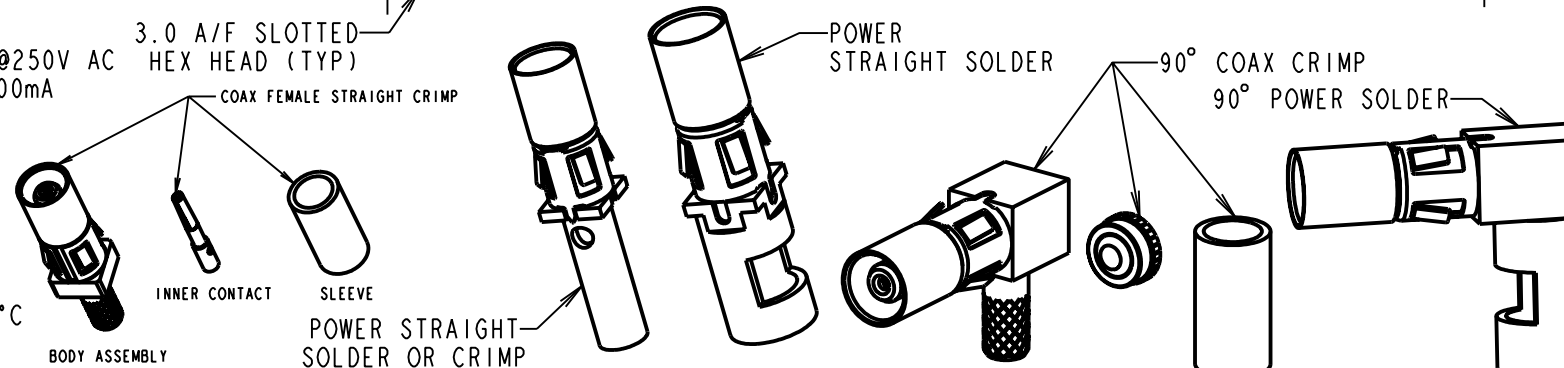
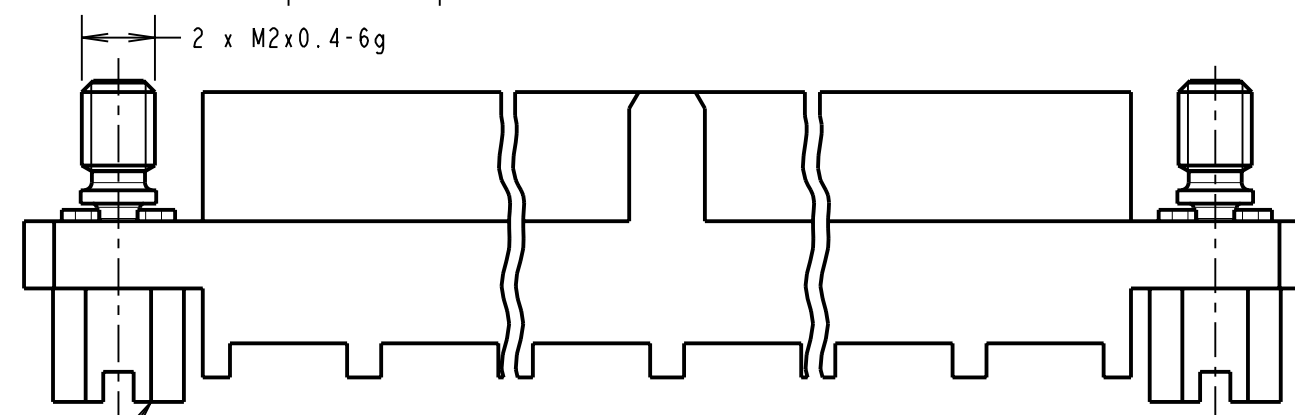
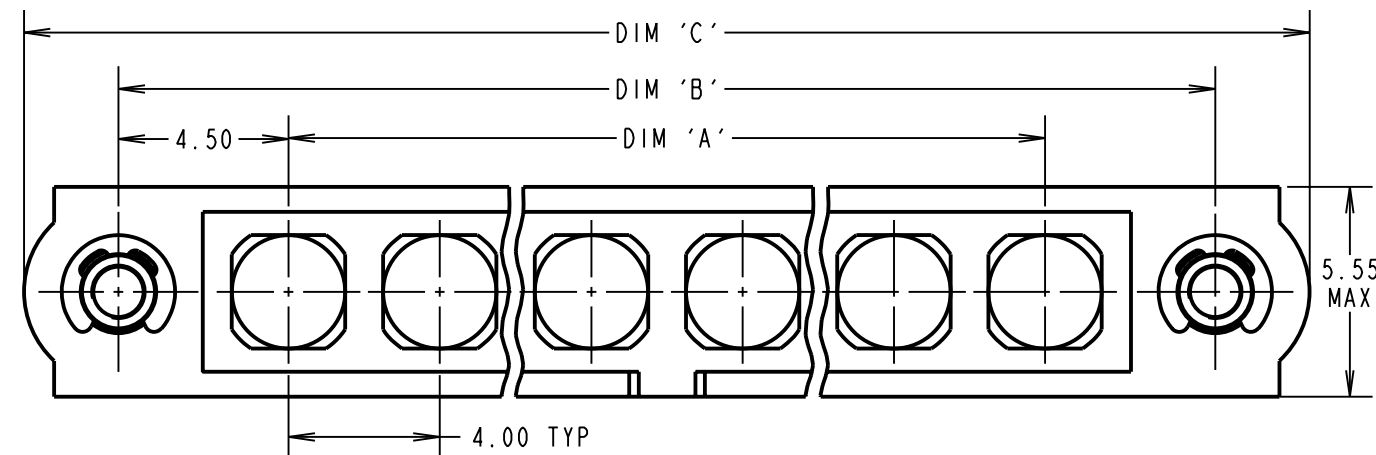
DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.00
DIM 'D'	M80-305/306/307 = 13.4mm
DIM 'E'	M80-325/326/327 = 12.7mm
DIM 'F'	M80-308/309 = 9.7mm
DIM 'G'	M80-32A/32B/32C = 10.3mm
DIM 'H'	M80-328/329 = 13.95mm

EXAMPLE 1: CONNECTOR WITH 08 COAX CONTACTS,
M80-4000000F1-08-305-00-000

DIM 'A' = 28.00mm, DIM 'B' = 37.00mm,
DIM 'C' = 42.00mm, DIM 'D' = 13.4mm

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS,
M80-4000000F1-10-325-00-000

DIM 'A' = 36.00mm, DIM 'B' = 45.00mm,
DIM 'C' = 50.00mm, DIM 'E' = 12.7mm



ORDER CODE: (CRIMP/SOLDER)

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

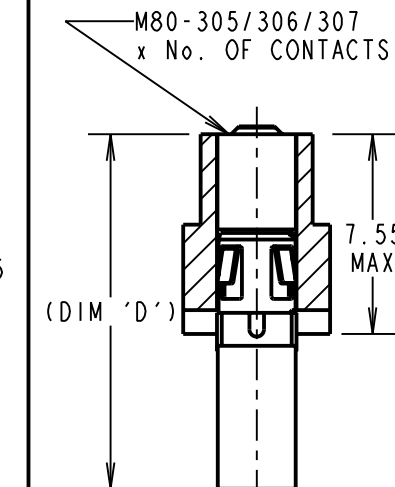
TOTAL No. OF CONTACTS
02 TO 12

SPECIAL CONTACTS

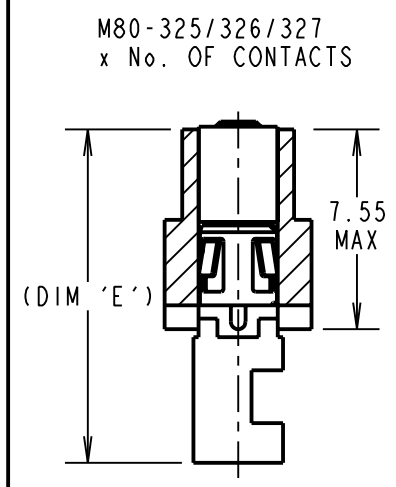
305 = COAX CONTACT CRIMP 2.0mm M80-305
306 = COAX CONTACT CRIMP 2.4mm M80-306
307 = COAX CONTACT CRIMP 2.7mm M80-307
308 = 90° COAX CONTACT CRIMP 2.0mm M80-308
309 = 90° COAX CONTACT CRIMP 2.7mm M80-309
325 = POWER CONTACT SOLDER 12AWG M80-325
326 = POWER CONTACT SOLDER 14AWG M80-326
327 = POWER CONTACT 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

NOTES:

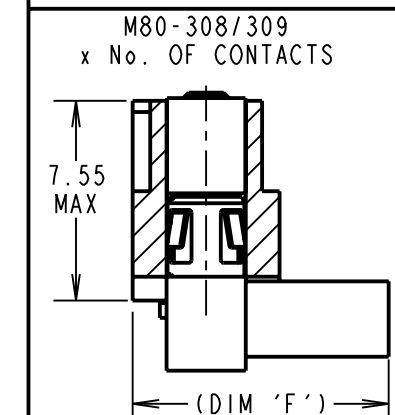
- CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
- COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, INSULATOR AND LATCHING COLLAR ARE PRE-ASSEMBLED AND SLEEVE AND INNER CONTACT ARE SEPARATE.
- FOR EXTRA COAX CONTACTS, USE PART NUMBER M80-305/306/307/308/309 FOR EXTRA POWER CONTACTS, USE PART NUMBER M80-325/326/327/328/329/32A/32B/32C.
- 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.
- POWER AND COAX CONTACT EXTRACTION TOOL = Z80-290
- POWER CONTACT WIRE, STRIP BY 5.00mm MINIMUM
- INSTRUCTION SHEETS ARE AVAILABLE.
- FOR EXAMPLE OF ALL COAX SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 1 IN TABLE
- FOR EXAMPLE OF ALL POWER SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 2 IN TABLE.



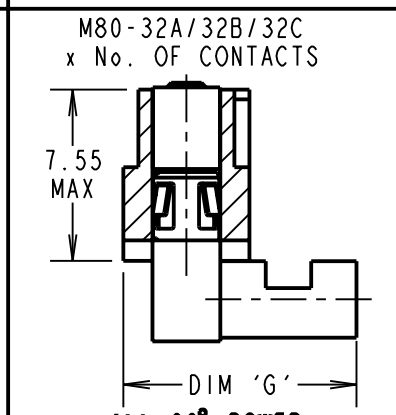
ALL COAX CONTACTS ONLY



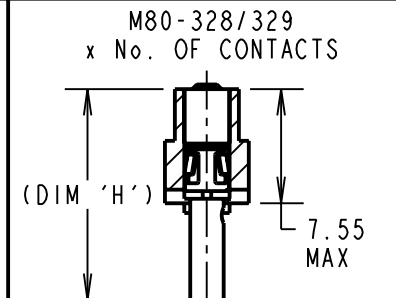
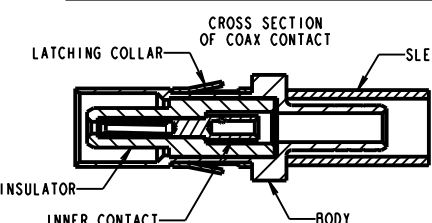
ALL POWER CONTACTS ONLY



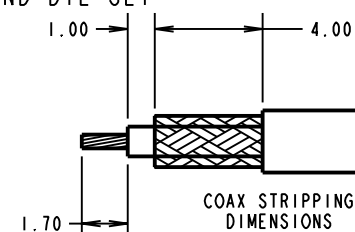
ALL 90° COAX CONTACTS ONLY



ALL 90° POWER CONTACTS ONLY



ALL POWER CONTACTS ONLY



HARWIN

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TOLERANCES
X. = ± 1 mm
X.X = ± 0.25 mm
X.XX = ± 0.10 mm
X.XXX = ± 0.01 mm
ANGLES = $\pm 5^\circ$
UNLESS STATED

MATERIAL:

SEE ABOVE

FINISH: SEE ABOVE

S/AREA: mm²

TITLE: JACKSCREW DATAMATE
MIXED TECHNOLOGY
FEMALE ASSEMBLY

DRAWING NUMBER:

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

SHT
3 OF 4

CP	D	21.05.10	10812
NAME	ISS.	DATE	C/NOTE
APPROVED:	C. PENROSE		
CHECKED:	R. ADDE		
DRAWN:	R. ADDE		
CUSTOMER REF.:			
ASSEMBLY DRG:			

Customer Information Sheet

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

SHEET 4 OF 4

IF IN DOUBT - ASK

(C)

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIAL:

MOULDING: GLASS FILLED PPS, UL94V-0, BLACK

POWER & COAX CONTACT:

BODY = COPPER ALLOY

INNER CONTACT = BERYLLIUM COPPER

INSULATOR = PTFE

JACKSCREW, CIRCLIP: STAINLESS STEEL

FINISH:

POWER & COAX CONTACT

BODY, SLEEVE, INNER CONTACT = GOLD

ELECTRICAL:

WORKING VOLTAGE = 120V AC/DC

VOLTAGE PROOF = 360V AC/DC

INSULATION RESISTANCE = 100M Ω MIN

POWER CONTACT:

CONTACT RESISTANCE = 6m Ω MAX

CURRENT RATING = 20A MAX

COAX CONTACT:

FREQUENCY RANGE = 6GHz

IMPEDANCE = 50 Ω

V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX

CONTACT RESISTANCE 6 m Ω MAX

INSULATION RESISTANCE = 10⁶M Ω @250V AC

OPERATING VOLTAGE = 180V AC @ 500mA

MAXIMUM VOLTAGE = 1000V AC

MECHANICAL:

DURABILITY = 500 OPERATIONS

POWER & COAX CONTACT:

INSERTION FORCE = 5N MAX

WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

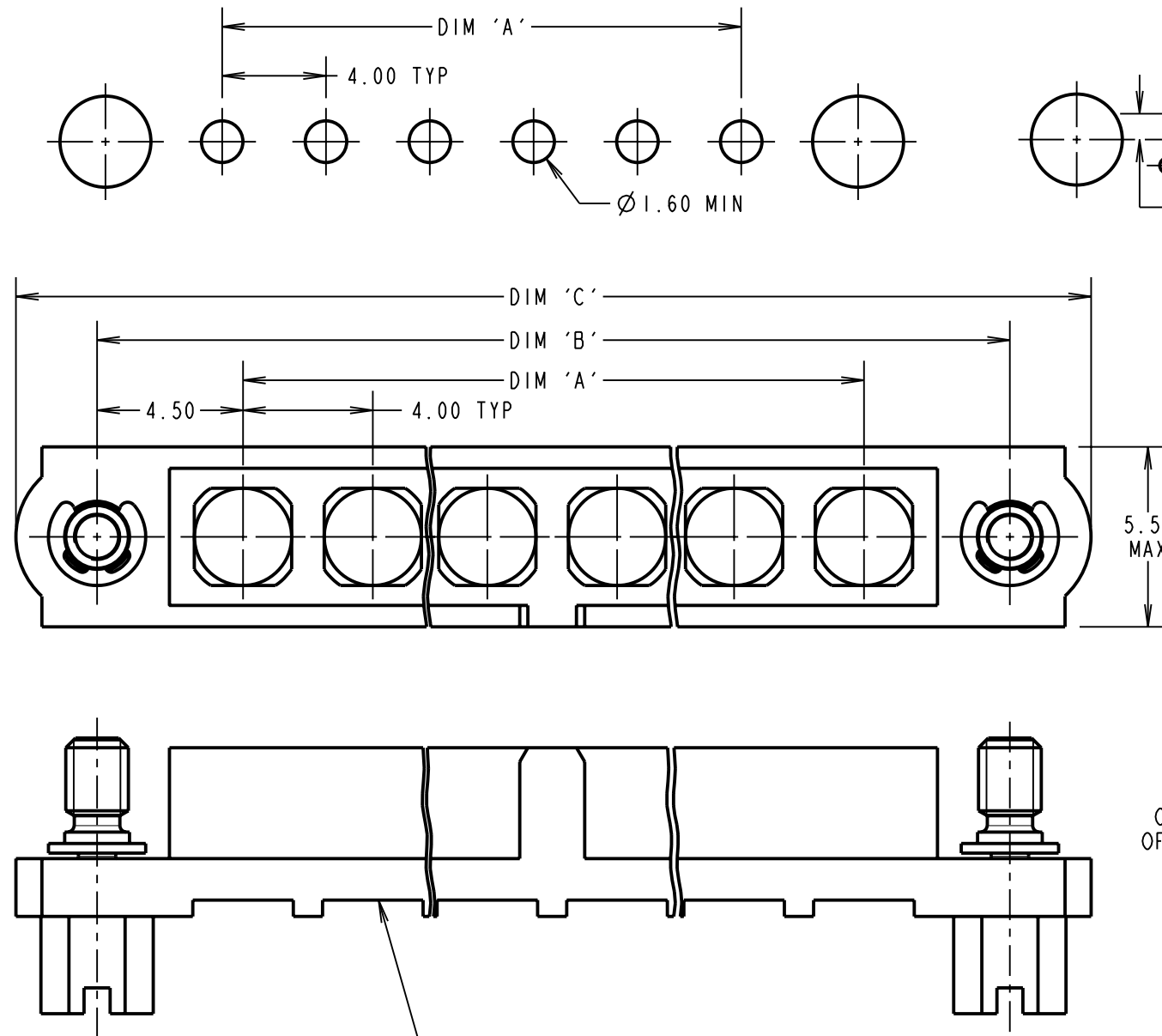
PACKING:

TUBE

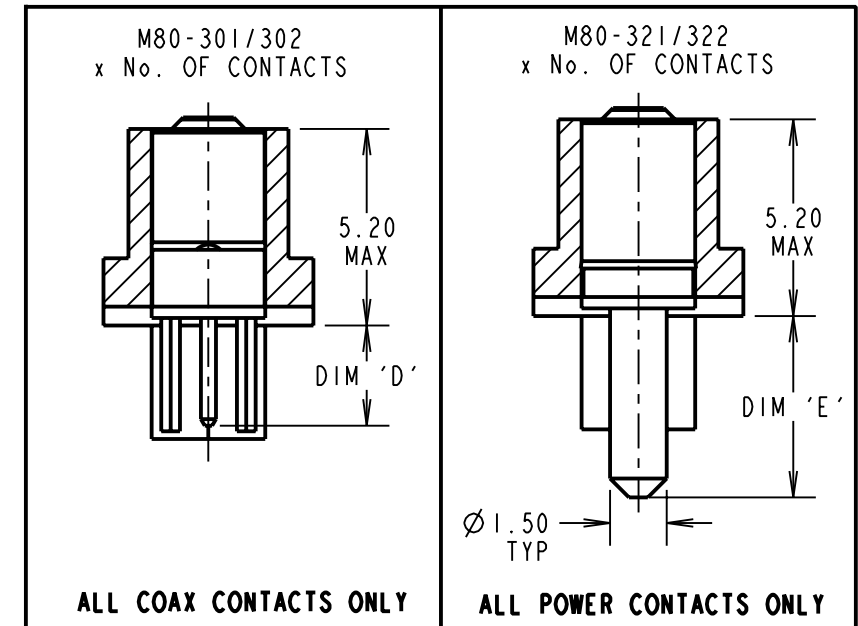
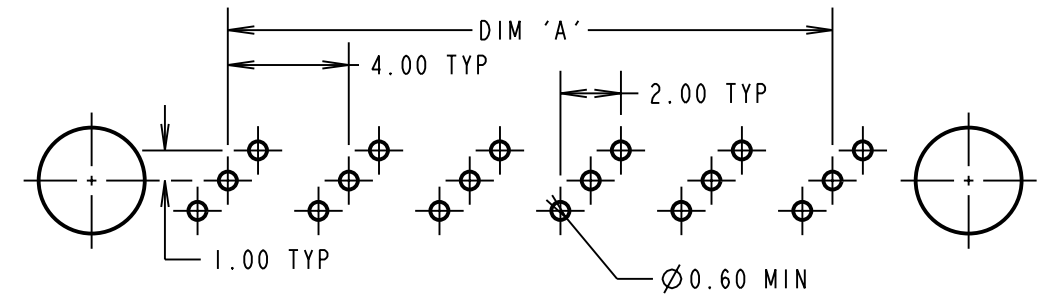
FOR COMPLETE SPECIFICATION SEE COMPONENT

SPECIFICATION C005XX (LATEST ISSUE)

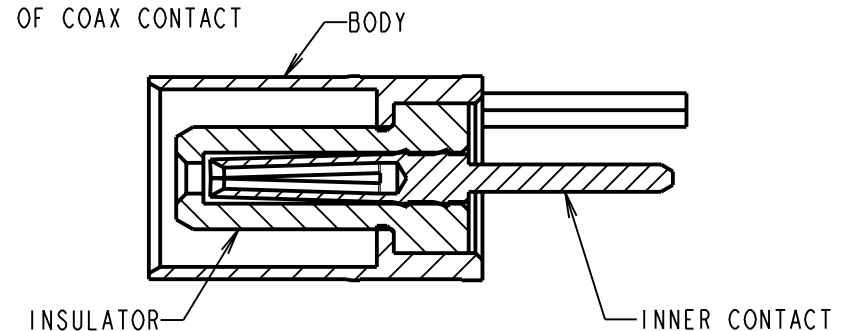
RECOMMENDED PCB LAYOUT FOR ALL POWER CONTACTS ONLY



RECOMMENDED PCB LAYOUT FOR ALL COAX CONTACTS ONLY



CROSS-SECTION OF COAX CONTACT



NOTES:

- FOR EXAMPLE OF ALL COAX SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 1 IN TABLE
- FOR EXAMPLE OF ALL POWER SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 2 IN TABLE.

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'	M80-301 = 3.00mm, M80-302 = 4.50mm
DIM 'E'	M80-321 = 3.50mm, M80-322 = 5.00mm
EXAMPLE 1: CONNECTOR WITH 08 COAX CONTACTS, M80-4000000FI-08-301-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm DIM 'D' = 3.00mm	
EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-4000000FI-10-321-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm DIM 'E' = 3.50mm	

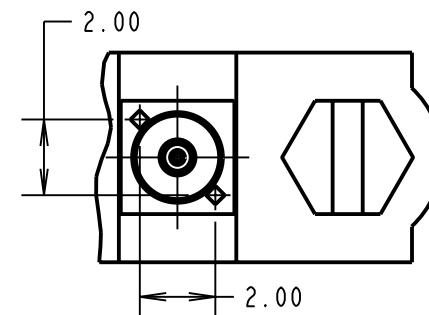
ORDER CODE:(PC TAIL CONTACTS ONLY)

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

TOTAL No. OF CONTACTS
02 TO 12

SPECIAL CONTACTS

301 = COAX CONTACT PC TAIL 3.0mm M80-301
302 = COAX CONTACT PC TAIL 4.5mm M80-302
321 = POWER CONTACT PC TAIL 3.5mm M80-321
322 = POWER CONTACT PC TAIL 5.0mm M80-322



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X. = ± 1 mm
X.X = ± 0.25 mm
X.XX = ± 0.10 mm
X.XXX = ± 0.01 mm
ANGLES = $\pm 5^\circ$
UNLESS STATED

MATERIAL:

SEE ABOVE

FINISH:

SEE ABOVE

S/AREA:

mm²

TITLE: JACKSCREW DATAMATE
MIXED TECHNOLOGY
FEMALE ASSEMBLY

DRAWING NUMBER:

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

SHT
4 OF 4

CP	D	21.05.10	10812
NAME	ISS.	DATE	C/NOTE
APPROVED: C.PENROSE			
CHECKED: R.ADE			
DRAWN: R.ADE			
CUSTOMER REF.:			
ASSEMBLY DRG:			