

Customer Information Sheet

DRAWING No.: M80-400000FS-XX-XXX-00-000

SHEET 2 OF 2

IF IN DOUBT - ASK

©

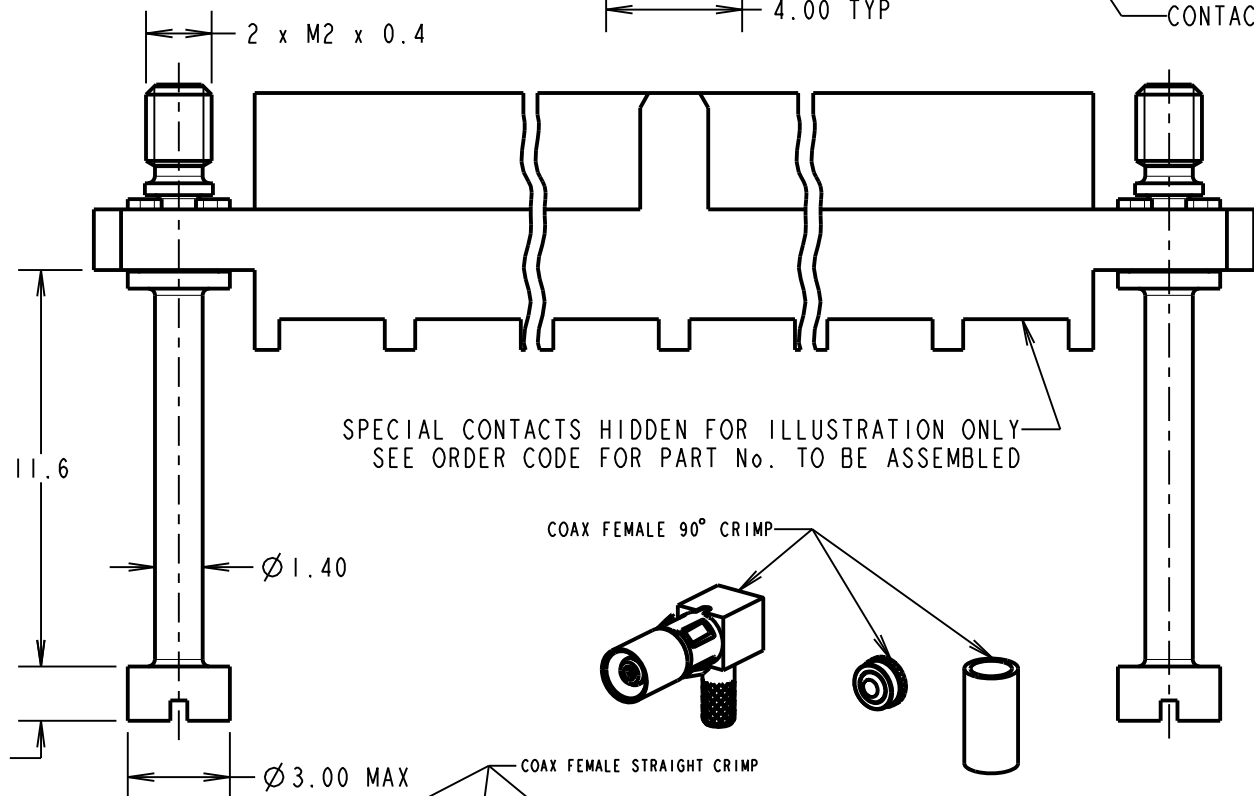
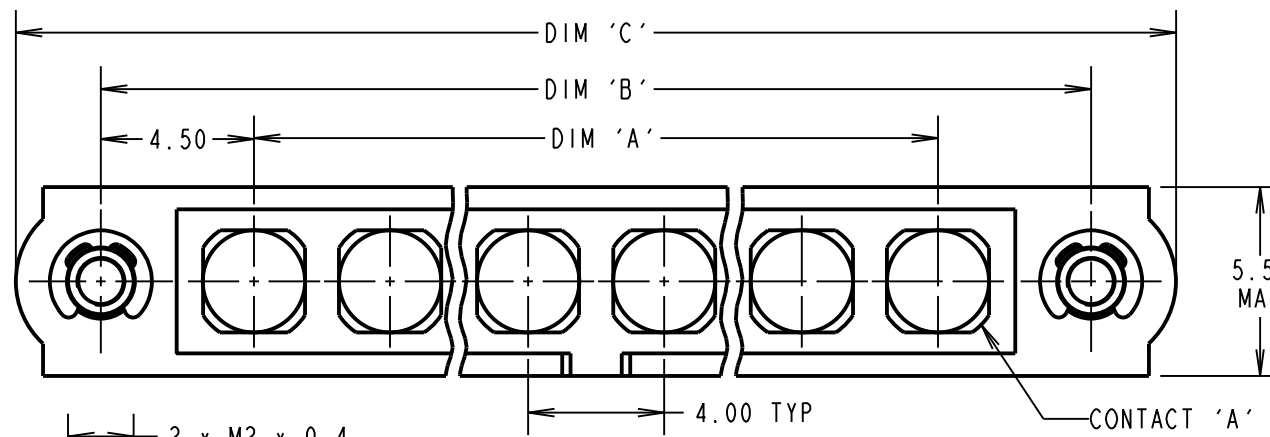
NOT TO SCALE

THIRD ANGLE PROJECTION

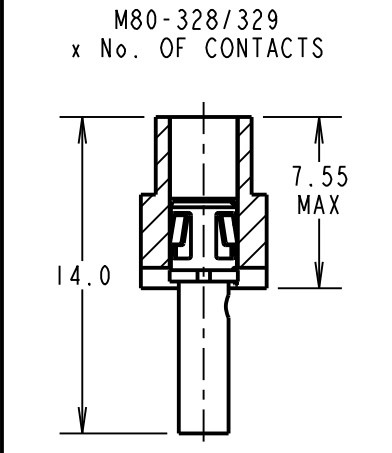
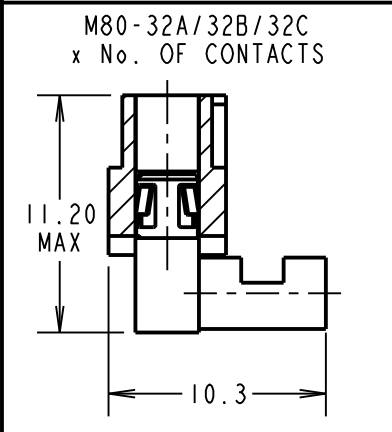
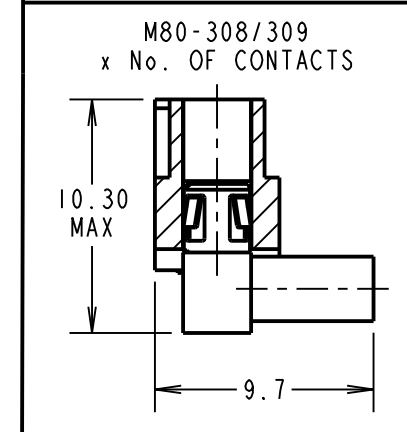
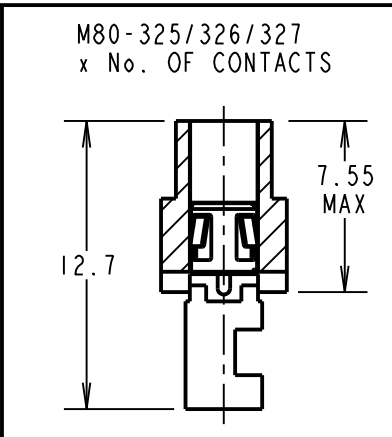
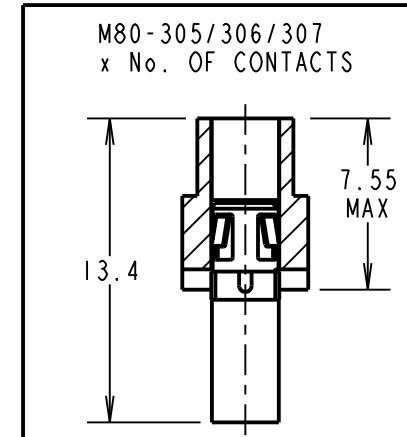
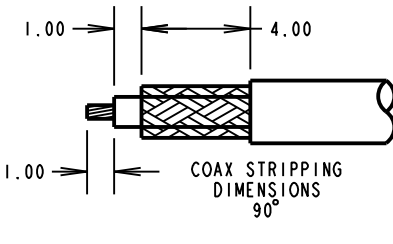
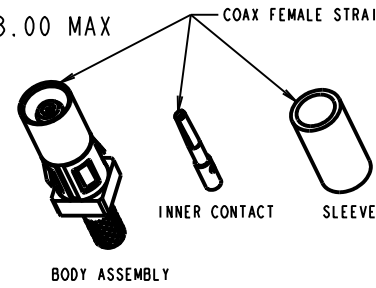
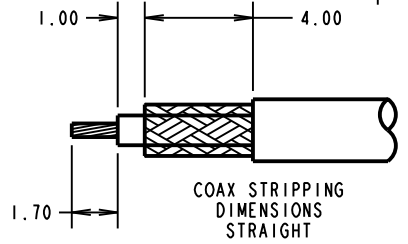
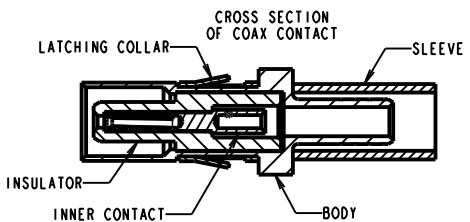
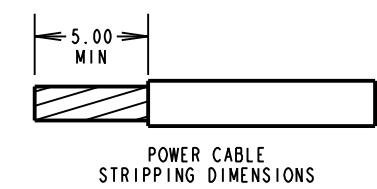
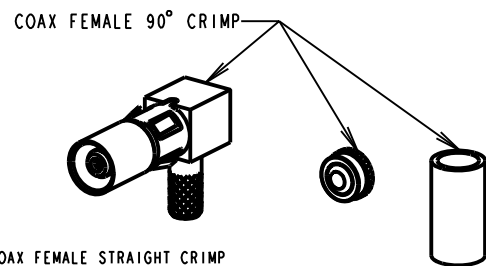
ALL DIMENSIONS IN mm

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 = 800V AC/DC
 VOLTAGE PROOF = 1200V AC/DC
 INSULATION RESISTANCE = 100MΩ MIN
POWER CONTACT:
 CONTACT RESISTANCE = 6mΩ 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 mΩ MAX
 INSULATION RESISTANCE = 10⁶MΩ @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)



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



CRIMP/SOLDER CONTACTS ONLY

ORDER CODE: (CRIMP/SOLDER)
M80-400000FS-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

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 1: CONNECTOR WITH 08 COAX CONTACTS, M80-400000FS-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, M80-400000FS-10-325-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm, DIM 'E' = 12.7mm	

- NOTES:**
1. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
 2. COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, INSULATOR AND LATCHING COLLAR ARE PRE-ASSEMBLED AND SLEEVE AND INNER CONTACT ARE SEPARATE.
 3. 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.
 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. POWER AND COAX CONTACT EXTRACTION TOOL = Z80-290
 6. INSTRUCTION SHEETS ARE AVAILABLE.
 7. FOR EXAMPLE OF ALL COAX SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 1 IN TABLE
 8. FOR EXAMPLE OF ALL POWER SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 2 IN TABLE.

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www.harwin.com
 technical@harwin.com

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TOLERANCES
 X. = ±1mm
 X.X = ±0.25mm
 X.XX = ±0.10mm
 X.XXX = ±0.01mm
 ANGLES = ±5°
 UNLESS STATED

MATERIAL:
 SEE ABOVE
FINISH: SEE ABOVE
S/AREA: mm²

TITLE:
 DATAMATE MIX-TEK FEMALE ASSY.
 WITH EXTENDED JACKSCREW
DRAWING NUMBER:
M80-400000FS-XX-XXX-00-000
 SHT 2 OF 2

MGP	1	30.03.12	11695
NAME	ISS.	DATE	C/NOTE
APPROVED: MGP			
CHECKED: SF			
DRAWN: M G PLESTED			
CUSTOMER REF.:			
ASSEMBLY DRG:			