

# Customer Information Sheet

DRAWING No.: M80-315 TO M80-317 SHEET 2 OF 2 IF IN DOUBT - ASK (C) NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

**SPECIFICATIONS:**

**MATERIALS:**  
 BODY, SLEEVE, INNER CONTACT = COPPER ALLOY  
 LATCHING COLLAR = BERYLLIUM COPPER  
 INSULATOR = PTFE

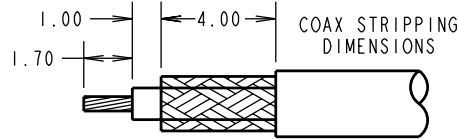
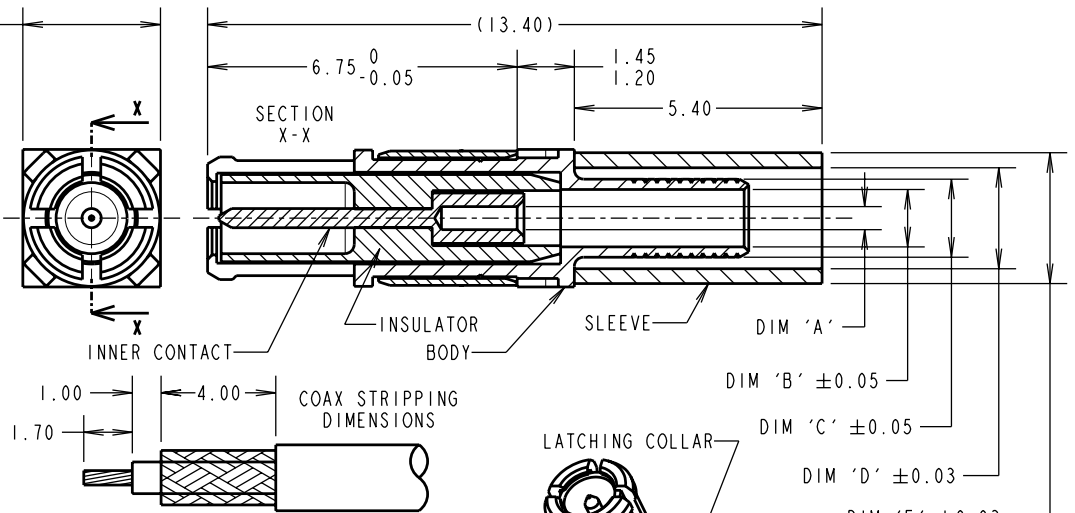
**FINISH:**  
 BODY, SLEEVE, INNER CONTACT = GOLD  
 LATCHING COLLAR = NICKEL

**ELECTRICAL:**  
 FREQUENCY RANGE = 6GHz  
 IMPEDANCE =  $50\Omega$   
 V.S.W.R. =  $1.05 + (0.04 \times \text{FREQUENCY}) \text{ GHz MAX}$   
 CONTACT RESISTANCE =  $6m\Omega \text{ MAX}$   
 INSULATION RESISTANCE =  $10^6 m\Omega @ 250V \text{ AC}$   
 OPERATING VOLTAGE = 180V AC @ 500mA  
 MAXIMUM VOLTAGE = 1,000V AC

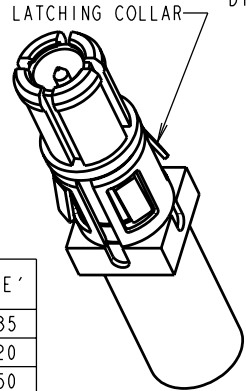
**MECHANICAL:**  
 DURABILITY = 500 OPERATIONS  
 INSERTION FORCE = 5N MAX, 0.6N MIN  
 WITHDRAWAL FORCE = 2N MAX, 0.5N MIN  
 CONTACT REPLACEMENT IN INSULATOR = 5 TIMES

**ENVIRONMENTAL:**  
 TEMPERATURE RANGE = -55°C TO +125°C

3.00<sup>0</sup><sub>-0.10</sub>  
 SQUARE



- NOTES:**
- CONNECTOR COMES SUPPLIED AS A KIT OF PARTS: BODY, INSULATOR, AND LATCHING COLLAR ARE PRE-ASSEMBLED, SLEEVE AND INNER CONTACT ARE SEPARATE.
  - RECOMMENDED HAND CRIMP TOOL FOR INNER CONTACT = Z80-292 WITH POSITIONER Z80-291. RECOMMENDED HAND CRIMP TOOL AND DIE SET FOR SLEEVE = Z80-293.
  - CONTACT EXTRACTION TOOL = Z80-290
  - FOR ALL OTHER ELECTRICAL/MECHANICAL REQUIREMENTS, SEE COMPONENT SPECIFICATION C005XX (LATEST ISSUE).



MGP	3	27.01.09	10272
NAME	ISS.	DATE	C/NOTE
APPROVED: MGP			
CHECKED: RA			
DRAWN: W. J. BOURNE			
CUSTOMER REF.:			
ASSEMBLY DRG:			

PART No.	CABLE DIAMETER (TYPE)	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'
M80-315	∅2.0mm (RG178)	∅0.50 ±0.05	∅1.25	∅1.70	∅2.20	∅2.85
M80-316	∅2.4mm (PTFE CELLULAR)	∅0.35 +0.05/-0	∅1.25	∅1.70	∅2.70	∅3.20
M80-317	∅2.7mm (RG174, 179, 316)	∅0.70 ±0.05	∅1.75	∅2.35	∅2.85	∅3.50



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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 COAX CONTACT MALE STRAIGHT CRIMP

**DRAWING NUMBER:**  
 M80-315 TO M80-317

SHT 2 OF 2