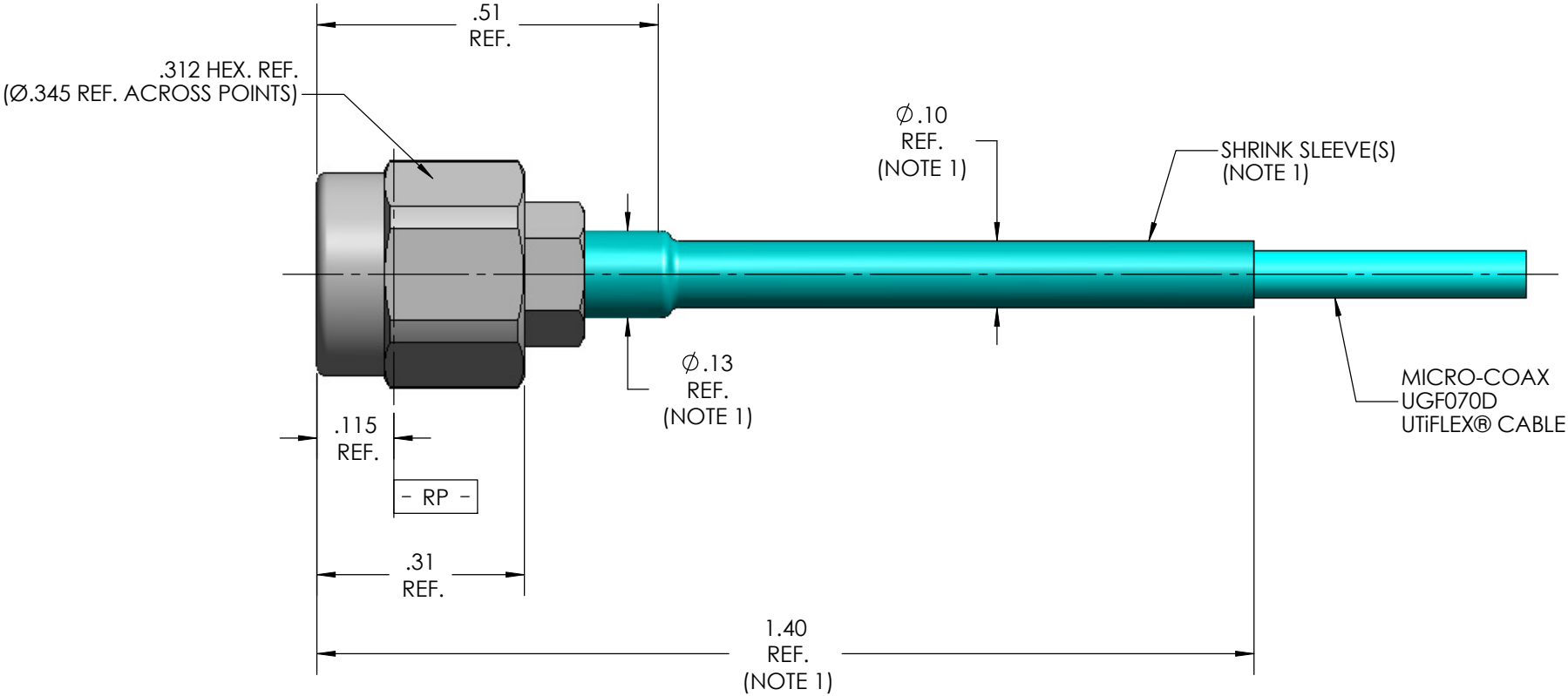
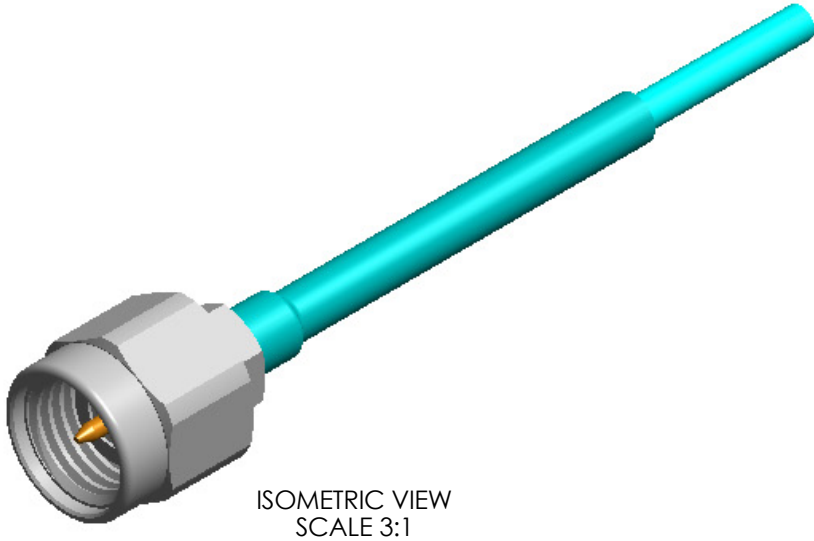


| MECHANICAL CHARACTERISTICS                   |  |
|--|--|
| INTERFACE                                    | MIL-STD-348, FIGURE 310-1  |
| IN ACCORDANCE WITH THE INTENT OF SLANT SHEET | MIL-PRF-39012/55 REF.  |
| RECOMMENDED MATING TORQUE                    | 9 IN-LBS. NOM.   |
| COUPLING PROOF TORQUE                        | 15 IN-LBS. MIN.  |
| COUPLING NUT RETENTION                       | 60 LBS. MIN.   |
| FORCE TO ENGAGE                              | 2 IN-LBS. MAX.   |
| FORCE TO DISENGAGE                           | 2 IN-LBS. MAX.   |
| DURABILITY                                   | 500 CYCLES MIN.  |
| AXIAL CONTACT RETENTION (FROM INTERFACE)     | 6 LBS. MIN.  |
| AXIAL CONTACT RETENTION (FROM CABLE)         | 6 LBS. MIN.  |
| CENTER CONTACT INSERTION (FROM CABLE)        | 3 LBS. MAX   |
| CENTER CONTACT WITHDRAW (FROM CABLE)         | 1 Oz. MIN.   |
| CABLE RETENTION                              | 10 LBS. MAX.   |
| MASS   | 2.41 GRAMS NOM.  |
|  |  |
|  |  |
| ELECTRICAL CHARACTERISTICS                   |  |
| IMPEDANCE                                    | 50 Ohms NOM.   |
| MAXIMUM FREQUENCY                            | 32 GHz   |
| VSWR DC - 18 GHz                             | 1.16:1 MAX.  |
| 18 - 32 GHz                                  | 1.18:1 MAX.  |
| INSERTION LOSS                               | 0.03 √F (GHz) dB MAX.  |
| DIELECTRIC WITHSTANDING VOLTAGE              | 500 Vrms MIN.  |
| INSULATION RESISTANCE                        | 5000 MegaOhms MIN.   |
| RF LEAKAGE DC - 18 GHz                       | -90 dB MIN.  |
| CORONA                                       | 130 Vrms MIN. @ 70,000 FEET  |
| RF HIGH POTENTIAL                            | 325 Vrms MIN.  |
| CONTACT RESISTANCE (INNER)                   | 3.0 MilliOhms MAX.   |
| CONTACT RESISTANCE (OUTER)                   | 2.0 MilliOhms MAX.   |
|  |  |
|  |  |
| ENVIRONMENTAL CHARACTERISTICS                |  |
| OPERATING TEMPERATURE                        | -62°C TO 165°C   |
| VIBRATION                                    | MIL-STD-202, METHOD 204, CONDITION D   |
| MECHANICAL SHOCK                             | MIL-STD-202, METHOD 213, CONDITION I   |
| THERMAL SHOCK                                | MIL-STD-202, METHOD 107, CONDITION B   |
| CORROSION                                    | MIL-STD-202, METHOD 101, CONDITION B, 5%   |
| MOISTURE RESISTANCE                          | MIL-STD-202, METHOD 106, CONDITION (NO VIBRATION)  |
|  |  |
| MATERIALS AND FINISH                         |  |
| COUPLING NUT                                 | STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967   |
| CONTACT                                      | BERYLLIUM COPPER, ASTM-B-196<br>GOLD PLATED PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290                              |
| SNAP RING                                    | BERYLLIUM COPPER, PER ASTM-B-197   |
| INSULATOR                                    | TFE FLUOROCARBON PER ASTM-D-1710   |
| BODY   | STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, GOLD PLATE PER MIL-DTL- 45204, OVER NICKEL PLATE PER AMS-QQ-N-290. |
| GASKET                                       | SILICONE RUBBER PER ZZ-R-765   |
|  |  |
| APPLICATION                                  |  |
| CABLE(S)                                     | UGF070D CABLE  |
| INSTALLATION                                 | PER CONFIGURATOR   |
|  |  |

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| REV. | DESCRIPTION     | DATE      | BY  | APPVD |
|------|-----------------|-----------|-----|-------|
| A    | INITIAL RELEASE | 1/13/2005 | JMK | RDS   |
| A1   | ECO 105240      | 3/29/2010 | MJM | RS    |
| B    | ECO 135237      | 4/30/2013 | MJM | RS    |



SPECIFICATION DRAWING

|   |          |     |   |  |   |               |                  |                         |                             |              |
|---|----------|-----|---|--|---|---------------|------------------|-------------------------|-----------------------------|--------------|
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|   | DWN.     | JMK | 03/19/04  |  |   |               |                  |                         |                             |              |
|   | CHKD.    | CCF | 5/3/13  |  |   |               |                  |                         |                             |              |
|   | APPVD.   |     |   |  |   |               |                  |                         |                             |              |
| TOLERANCES UNLESS OTHERWISE SPECIFIED   |          |     | TITLE   |  |   |               |                  |                         |                             |              |
|   |          |     | SMA PLUG, UGF070D CABLE   |  |   |               |                  |                         |                             |              |
| .XX   | ± .02    |     | ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989. |  | FSCM NO.<br><br>64639   | SIZE<br><br>B | SCALE<br><br>4:1 | SHEET NO.<br><br>1 OF 1 | DRAWING NO.<br><br>SD904037 | REV<br><br>B |
| .XXX  | ± .005   |     |   |  |   |               |                  |                         |                             |              |
| .XXXX   | ± .0010  |     |   |  |   |               |                  |                         |                             |              |
| ANGLES  | ± 2°     |     |   |  |   |               |                  |                         |                             |              |

NOTE:

1. MARKER LOCATION ON THIS DRAWING IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE.