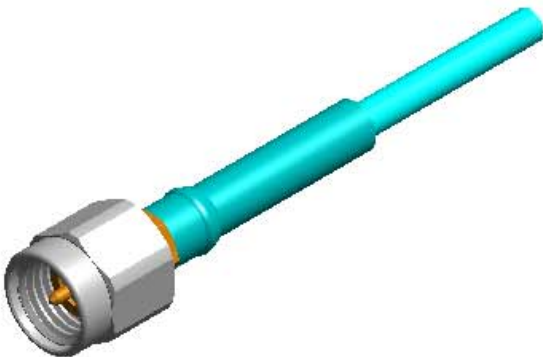
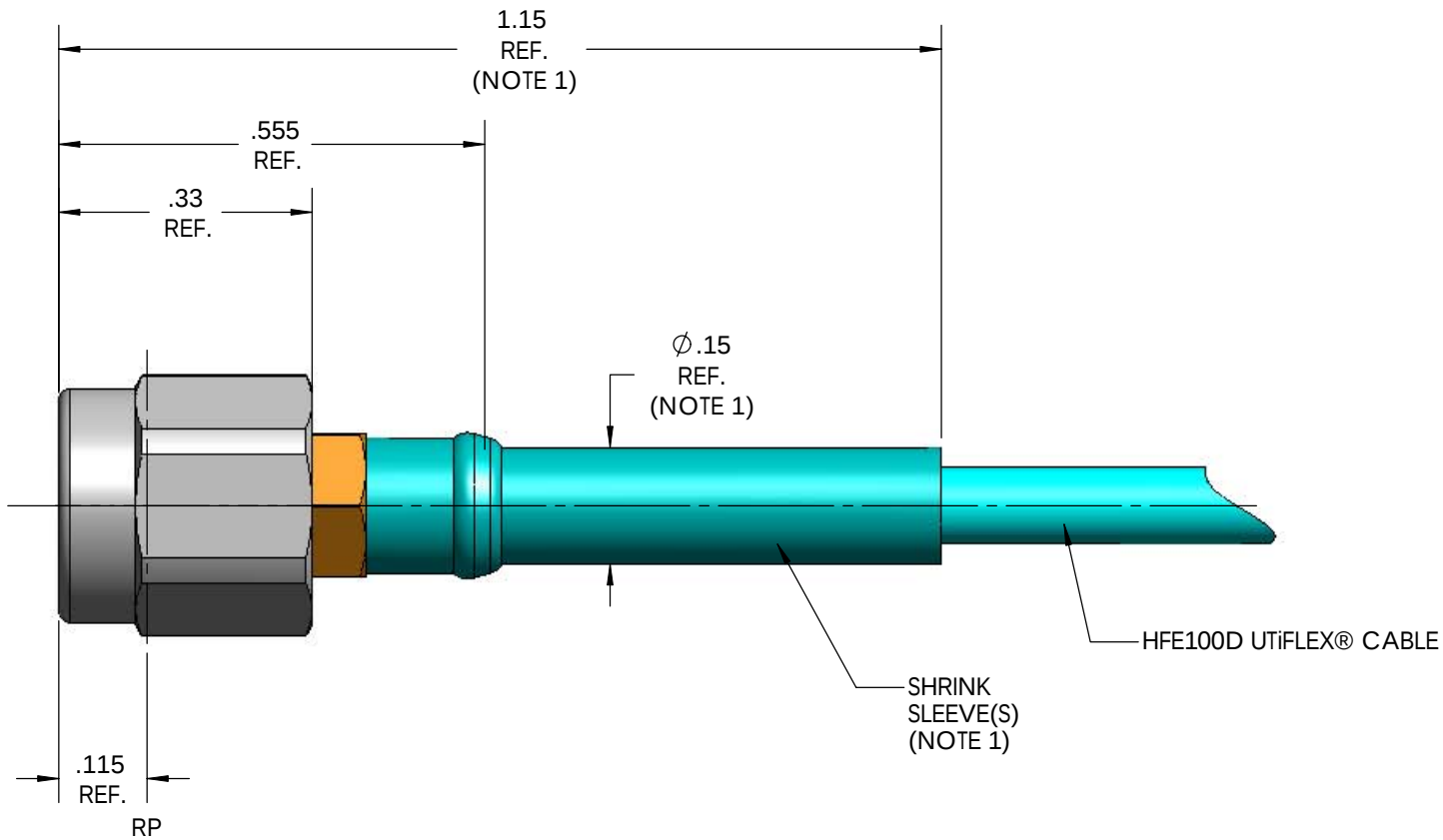


| MECHANICAL CHARACTERISTICS               |                                                                                                                                                                |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INTERFACE                                | MIL-STD-348, FIG. 310-1                                                                                                                                        |
| 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) | 6.0 LBS. MIN.                                                                                                                                                  |
| AXIAL CONTACT RETENTION (FROM CABLE)     | 6.0 LBS. MIN.                                                                                                                                                  |
| CABLE RETENTION                          | 10 LBS. MIN.                                                                                                                                                   |
| MASS                                     | 2.51 GRAMS NOM.                                                                                                                                                |
|                                          |                                                                                                                                                                |
|                                          |                                                                                                                                                                |
|                                          |                                                                                                                                                                |
|                                          |                                                                                                                                                                |
|                                          |                                                                                                                                                                |
| ELECTRICAL CHARACTERISTICS               |                                                                                                                                                                |
| IMPEDANCE                                | 50 Ohms. NOM.                                                                                                                                                  |
| MAXIMUM FREQUENCY                        | 18 GHz                                                                                                                                                         |
| VSWR DC - 18 GHz                         | 1.16:1 MAX.                                                                                                                                                    |
| INSERTION LOSS                           | 0.03 √F (GHz) db MAX.                                                                                                                                          |
| DIELECTRIC WITHSTANDING VOLTAGE          | 1000 Vrms MIN.                                                                                                                                                 |
| INSULATION RESISTANCE                    | 5000 MegaOhms MIN.                                                                                                                                             |
| RF LEAKAGE DC - 18 Ghz                   | -90 dB                                                                                                                                                         |
| CORONA                                   | 250 Vrms. MIN. @ 70,000 FEET                                                                                                                                   |
| RF HIGH POTENTIAL                        | 675 Vrms. MIN.                                                                                                                                                 |
| CONTACT RESISTANCE (INNER)               | 3.0 MilliOhms MAX.                                                                                                                                             |
| CONTACT RESISTANCE (OUTER)               | 2.0 MilliOhms MAX.                                                                                                                                             |
|                                          |                                                                                                                                                                |
| ENVIRONMENTAL CHARACTERISTICS            |                                                                                                                                                                |
| OPERATING TEMPERATURE                    | -55°C TO +125°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                                                                                                                           |
| MOISTURE RESISTANCE                      | MIL-STD-202, METHOD 106, CONDITION (NO VIBRATION)                                                                                                              |
| CORROSION                                | MIL-STD-202, METHOD 101, CONDITION B, 5%                                                                                                                       |
|                                          |                                                                                                                                                                |
|                                          |                                                                                                                                                                |
| MATERIAL AND FINISH                      |                                                                                                                                                                |
| BODY, CONTACT                            | BERYLLIUM COPPER, UNS NO. C17300, PER ASTM-B-196<br>GOLD PLATE PER MIL-G-45204, 50 MICROINCH MIN., OVER<br>NICKEL PLATE PER QQ-N-290, 50 MICROINCHES THK. MIN. |
| COUPLING NUT                             | STEEL, CORROSION RESISTANT, CONDITION A,<br>NON-MAGNETIC PER ASTM-A-582, UNS NO. S30300,<br>PASSIVATE PER ASTM-A-967.                                          |
| RETAINING RING                           | BERYLLIUM COPPER, UNS NO. C17200, PER ASTM-B-197                                                                                                               |
| INSULATOR                                | PTFE PER ASTM-D-1710                                                                                                                                           |
| BEAD                                     | ULTEM 1000 PER ASTM-5205                                                                                                                                       |
| GASKET                                   | SILICONERUBBER PER ZZ-R-765                                                                                                                                    |
|                                          |                                                                                                                                                                |
| APPLICATION                              |                                                                                                                                                                |
| CABLE(S)                                 | HFE100D CABLE                                                                                                                                                  |
| INSTALLATION                             | PER CONFIGURATOR                                                                                                                                               |
|                                          |                                                                                                                                                                |
|                                          |                                                                                                                                                                |
|                                          |                                                                                                                                                                |
|                                          |                                                                                                                                                                |

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ISOMETRIC VIEW  
SCALE 2:1



NOTE:

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

|                                                                                                                                                 |         |                                                                                                                |     |          |      |                                                                                                                                    |           |             |     |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------|-----|----------|------|------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-----|--|--|
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|                                                                                                                                                 |         | DWN.                                                                                                           | JMK | 02/03/05 |      |                                                                                                                                    |           |             |     |  |  |
|                                                                                                                                                 |         | CHKD.                                                                                                          | JM  | 5/14/08  |      |                                                                                                                                    |           |             |     |  |  |
|                                                                                                                                                 |         | APPVD.                                                                                                         | RS  | 5/14/08  |      |                                                                                                                                    |           |             |     |  |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED                                                                                                           |         | TITLE                                                                                                          |     |          |      |                                                                                                                                    |           |             |     |  |  |
|                                                                                                                                                 |         | SMA PLUG 100D CABLE                                                                                            |     |          |      |                                                                                                                                    |           |             |     |  |  |
| .XX                                                                                                                                             | ± .02   | ALL DIMENSIONS IN INCHES<br>UNLESS OTHERWISE SPECIFIED.<br>SCREW THDS. TO BE IN ACCORD<br>WITH ANSI B1.1-1989. |     | FSCM NO. | SIZE | SCALE                                                                                                                              | SHEET NO. | DRAWING NO. | REV |  |  |
| .XXX                                                                                                                                            | ± .005  |                                                                                                                |     |          |      |                                                                                                                                    |           |             |     |  |  |
| .XXXX                                                                                                                                           | ± .0010 |                                                                                                                |     |          |      |                                                                                                                                    |           |             |     |  |  |
| ANGLES                                                                                                                                          | ± 2°    |                                                                                                                |     |          |      |                                                                                                                                    |           |             |     |  |  |
|                                                                                                                                                 |         |                                                                                                                |     | 64639    | B    | 4:1                                                                                                                                | 1 OF 1    | SD904255    | A   |  |  |