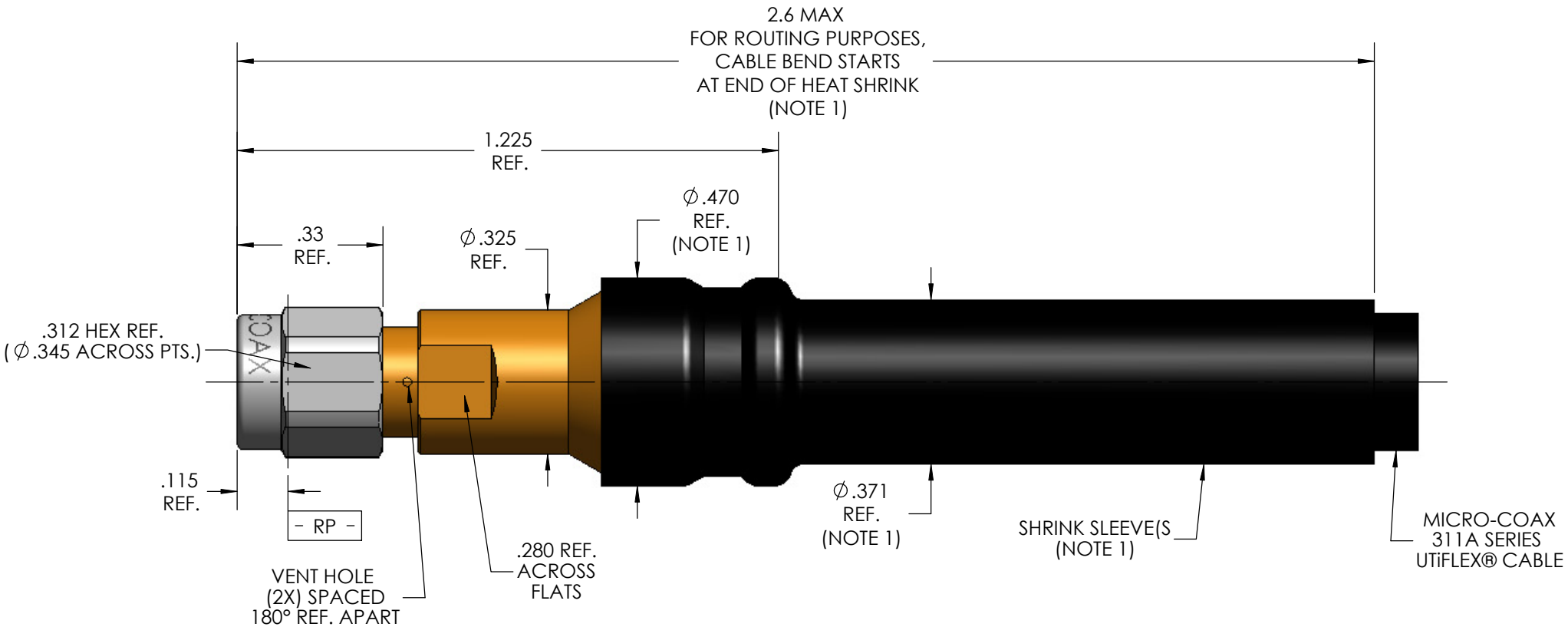
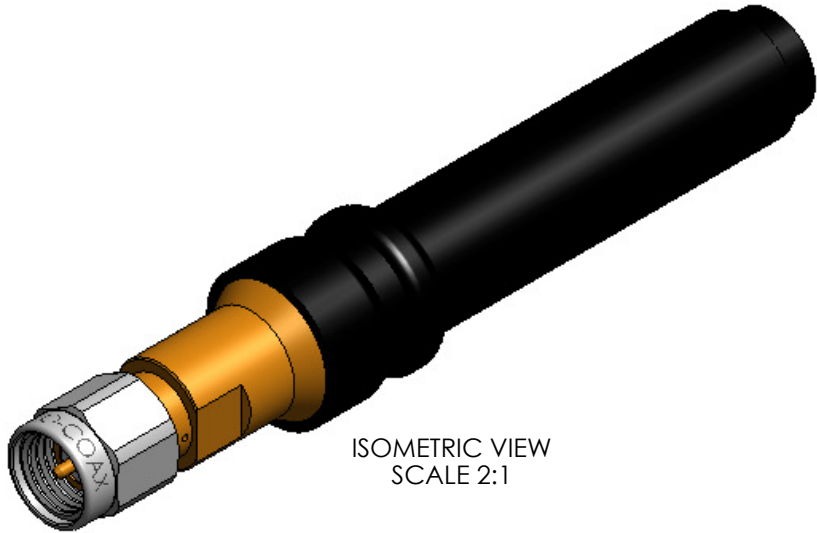


| MECHANICAL CHARACTERISTICS                   |   |
|--|---|
| INTERFACE                                    | MIL-STD-348, FIGURE 310-1   |
| IN ACCORDANCE WITH THE INTENT OF SLANT SHEET | MIL-PRF-39012/55 REF.   |
| RECOMMENDED MATING TORQUE                    | 9 IN-LBS. NOM.  |
| COUPLING PROOF TORQUE                        | 15 IN-LBS. MIN.   |
| COUPLING NUT RETENTION                       | 60 LBS. MIN.  |
| FORCE TO ENGAGE                              | 2 IN-LBS. MAX.  |
| FORCE TO DISENGAGE                           | 2 IN-LBS. MIN.  |
| DURABILITY                                   | 500 CYCLES MIN.   |
| AXIAL CONTACT RETENTION (FROM INTERFACE)     | 6 LBS. MIN.   |
| AXIAL CONTACT RETENTION (FROM CABLE)         | 6 LBS. MIN.   |
| CABLE RETENTION                              | 20 LBS MIN.   |
| MASS   | 6.59 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              | 1200 Vrms MIN.  |
| INSULATION RESISTANCE                        | 5000 MegaOhms MIN.  |
| RF LEAKAGE DC - 18 GHz                       | -90 dB MIN.   |
| CORONA                                       | 310 Vrms MIN. @ 70,000 FEET   |
| RF HIGH POTENTIAL                            | 800 Vrms MIN.   |
| CONTACT RESISTANCE (INNER)                   | 4.0 MilliOhms MAX.  |
| CONTACT RESISTANCE (OUTER)                   | 2.0 MilliOhms MAX.  |
|  |   |
| ENVIRONMENTAL CHARACTERISTICS                |   |
| OPERATING TEMPERATURE                        | -100 °C TO 150 °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%  |
|  |   |
| MATERIALS AND FINISH                         |   |
| COUPLING NUT                                 | STEEL, CORROSION RESISTANT, ASTM-A-582, UNS NO. S30300, PASSIVATED PER ASTM-A-96                |
| BODY, CONTACT, REAR SLEEVE                   | BERYLLIUM COPPER, ASTM-B-196, 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  |
| DIELECTRIC BEAD(S)                           | POLYPHENYLENE SULFIDE, PER ASTM-D-6358  |
|  |   |
| APPLICATION                                  |   |
| CABLE(S)                                     | 311A SERIES CABLE   |
| INSTALLATION                                 | PER CONFIGURATOR  |
| CONNECTOR CODE SHEET 1                       | 30V   |
| CONNECTOR CODE SHEET 2                       | 3QV   |
|  |   |
|  |   |
|  |   |
|  |   |

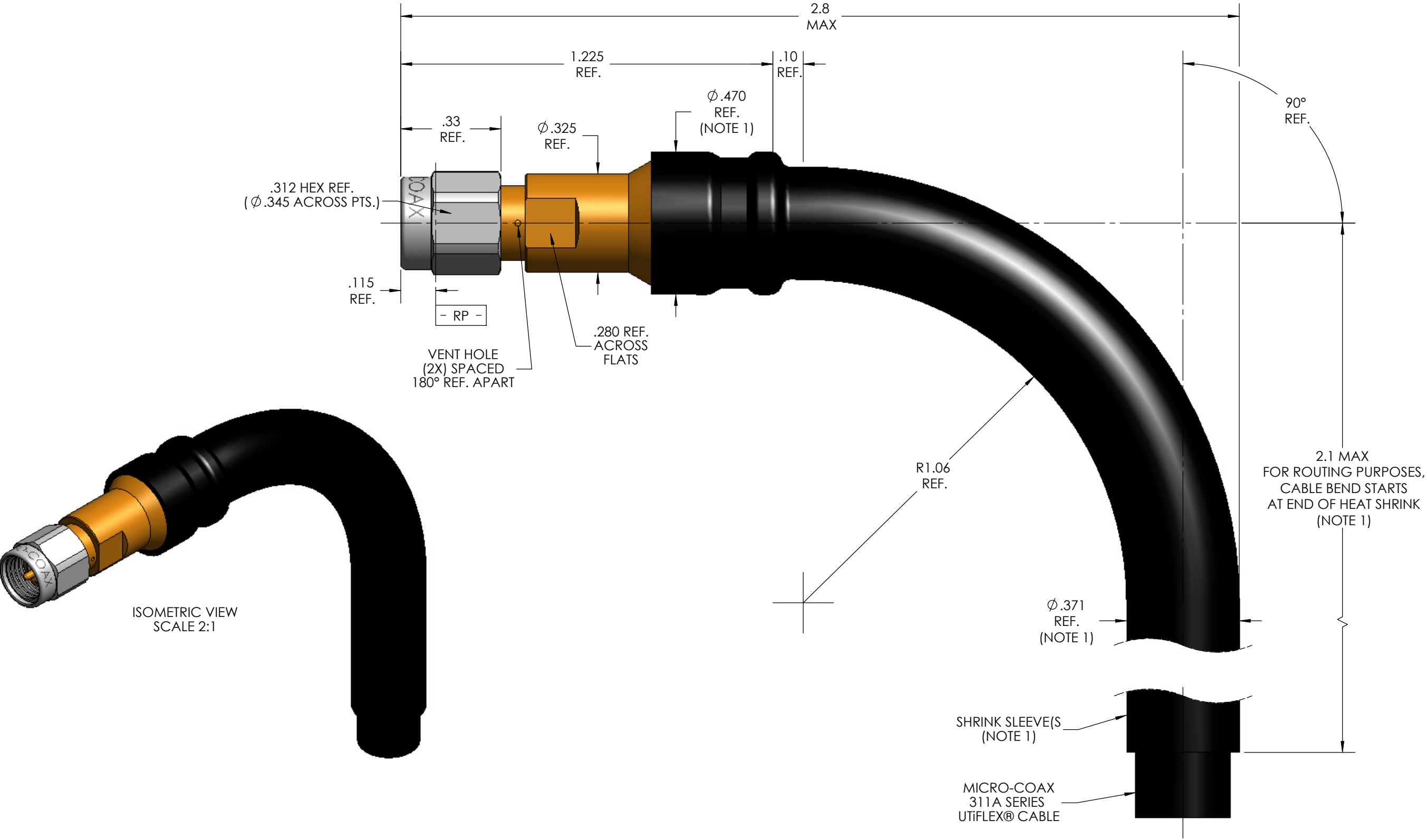
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NOTES:

1. MARKER LOCATION ON THIS DRAWING IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE.
2. ALL SPECIFICATIONS LISTED ON THIS DRAWING WILL ALSO APPLY TO CONNECTOR 904862-EM (EQUIPMENT MODEL).
3. SEE SHEET 2 FOR HEAT SHRINK FORMED ELBOW CONFIGURATION.

|   |         |   |     |         |  |  |      |       |           |   |     |  |  |  |
|---|---------|---|-----|---------|--|--|------|-------|-----------|---|-----|--|--|--|
| THIS SPECIFICATION IS THE PROPERTY OF MICRO-COAX, INC. AND MAY NOT BE USED OR COPIED WITHOUT THE EXPRESS WRITTEN PERMISSION OF MICRO-COAX, INC. |         | INITIALS  |     | DATE    |  | <div>MICRO-COAX</div> <div>PROVEN RELIABLE</div> |      |       |           |   |     |  |  |  |
|   |         | DWN.  | PLM | 4/1/08  |  |  |      |       |           |   |     |  |  |  |
|   |         | CHKD.   | CCF | 7/10/13 |  |  |      |       |           |   |     |  |  |  |
|   |         | APPVD.  |     |         |  |  |      |       |           |   |     |  |  |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED   |         | TITLE   |     |         |  |  |      |       |           | SMA PLUG, LIGHTWEIGHT, VENT HOLES, 311A SERIES, SPACE GRADE |     |  |  |  |
| .XX   | ± .02   | ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989. |     |         |  | FSCM NO.   | SIZE | SCALE | SHEET NO. | DRAWING NO.   | REV |  |  |  |
| .XXX  | ± .005  |   |     |         |  | 64639  | B    | 3:1   | 1 OF 2    | SD904862  | B1  |  |  |  |
| .XXXX   | ± .0010 |   |     |         |  |  |      |       |           |   |     |  |  |  |
| ANGLES  | ± 2°    |   |     |         |  |  |      |       |           |   |     |  |  |  |



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|   |         |          |      |  |           |  |      |  |  |
|---|---------|----------|------|--|-----------|--|------|--|--|
| ALL DIMENSIONS AND<br>TOLERANCES IN INCHES<br>UNLESS OTHERWISE SPECIFIED. |         | INITIALS |      | DATE   |           | <div>MICRO-COAX</div> <div>PROVEN RELIABLE</div> |      |  |  |
|   |         | DWN.     | PLM  | 4/1/08   |           |  |      |  |  |
|   |         | CHKD.    | CCF  | 7/10/13  |           |  |      |  |  |
|   |         | APPVD.   |      |  |           |  |      |  |  |
| .XX   | ± .02   | TITLE    |      | SMA PLUG, LIGHTWEIGHT, VENT HOLES, HEAT SHRINK<br>FORMED ELBOW, 311A SERIES, SPACE GRADE |           |  |      |  |  |
| .XXX  | ± .005  |          |      |  |           |  |      |  |  |
| .XXXX   | ± .0010 |          |      |  |           |  |      |  |  |
| ANGLES  | ± 2°    |          |      |  |           |  |      |  |  |
|   |         | FSCM NO. | SIZE | SCALE  | SHEET NO. | DRAWING NO.                                      | REV. |  |  |
|   |         | 64639    | B    | 3:1  | 2 OF 2    | SD904862   | B1   |  |  |