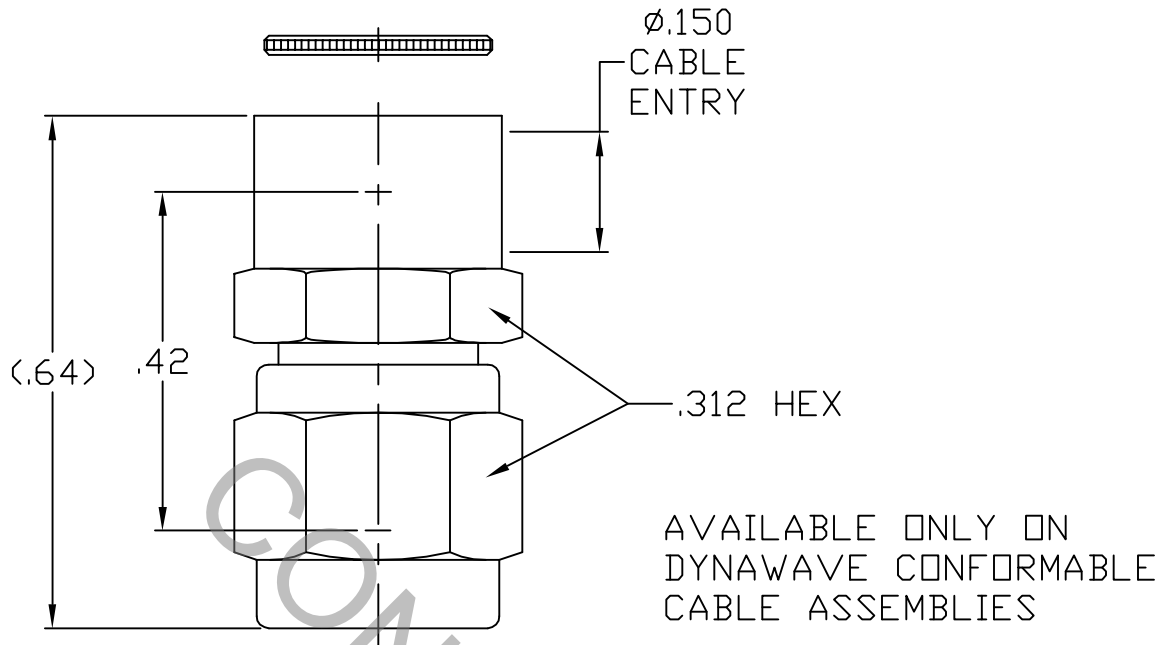


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.3 (SMA PLUG).

## 2. ELECTRICAL

|   |                               |
|---|-------------------------------|
| FREQUENCY RANGE GHz                         | DC TO 26.5 GHz                |
| VSWR (MAX) *                                | 1.05 + .004 x FGHz            |
| INSERTION LOSS (dB MAX) *                   | .05 dB x $\sqrt{\text{FGHz}}$ |
| NOMINAL IMPEDANCE (OHMS)                    | 50                            |
| VOLTAGE RATING (MAX. VRMS)                  | 325                           |
| RF LEAKAGE (MIN. dB DOWN)                   | -100 dB - FGHz                |
| TEMPERATURE RATING (DEGREES CENTIGRADE)     | -65°C TO + 165°C              |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 1,000                         |
| INSULATION RESISTANCE (MIN. MEGOHMS)        | 5,000                         |
| CONTACT RESISTANCE                          |                               |
| • CENTER CONTACT (MAX. MILLIOHMS)           | 3.0                           |
| • OUTER CONTACT (MAX. MILLIOHMS)            | 2.0                           |

\* TERMINATED IN A 50 OHM LOAD

CONFORMABLE<sup>®</sup> IS A REGISTERED TRADEMARK OF BELDEN WIRE & CABLE

| REV. | DCN NO. | DATE    | APP. | DIMENSIONS ARE IN INCHES<br>TOLERANCES             |                      |  | <br>HAVERHILL, MA 01835 |
|------|---------|---------|------|--|----------------------|--|--|
| AA   | 06-1805 | 6/29/06 | DC   | DECIMALS<br>.X ± .030<br>.XX ± .010<br>.XXX ± .005 | FRACTIONAL<br>± 1/64 | ANGULAR<br>X ° ± 1'0"<br>X ° X' ± 15'  |  |
|      |         |         |      | DRAWN DC   | DATE 6/29/06         | TITLE SMA RIGHT<br>ANGLE PLUG<br>DIRECT SOLDER TO<br>$\phi .141$ CONFORMABLE CABLE |  |
|      |         |         |      | APPROVED DC  | DATE 6/29/06         |  |  |
|      |         |         |      | CODE IDENT.<br>2J899                               | SHEET 1 OF 2         | DWG. NO. 9801-4120-6299  |  |

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE \_\_\_\_\_ 4.0 LBS.

MAX RADIAL TORQUE \_\_\_\_\_ N/A

### CENTER CONTACT AXIAL FORCES

● INSERTION (MAX OUNCES) \_\_\_\_\_ N/A

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX IN. LBS.) — 2.0

CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500

RECOMMENDED MATING TORQUE \_\_\_\_\_ 7 - 10 IN. LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 102, COND. C ( -65° c TO +165° c )

SHOCK \_\_\_\_\_ MIL-STD-202, METHOD 213, COND. I (100 G's)

VIBRATION \_\_\_\_\_ MIL-STD-202, METHOD 204, COND. D (20 G's)

MOISTURE RESISTANCE \_\_\_\_\_ MIL-STD-202, METHOD 106, LESS STEP 7b

CORROSION \_\_\_\_\_ MIL-STD-202, METHOD 101, COND. B (48 HOURS)

BAROMETRIC PRESSURE (ALTITUDE) \_\_\_\_\_ MIL-STD-202, METHOD 105, COND. C ( 70,000 FT. ) ( 250 VRMS )

## 5. MATERIAL

BODY, CAP & COUPLING NUT \_\_\_\_\_ STAINLESS STEEL PER AMS 5640, TYPE 303, COND. A

RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY

GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765

## 6. FINISH

BODY & CAP \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25  
(.000050 MIN. THK.) OVER NICKEL per QQ-N-290  
(.000150 MIN. THK.) OVER COPPER per MIL-C-14550  
(.000010 MIN. THK.)

COUPLING NUT \_\_\_\_\_ PASSIVATE PER AMS QQ-P-35, TYPE 2

RETAINING RING AND GASKET \_\_\_\_\_ N/A