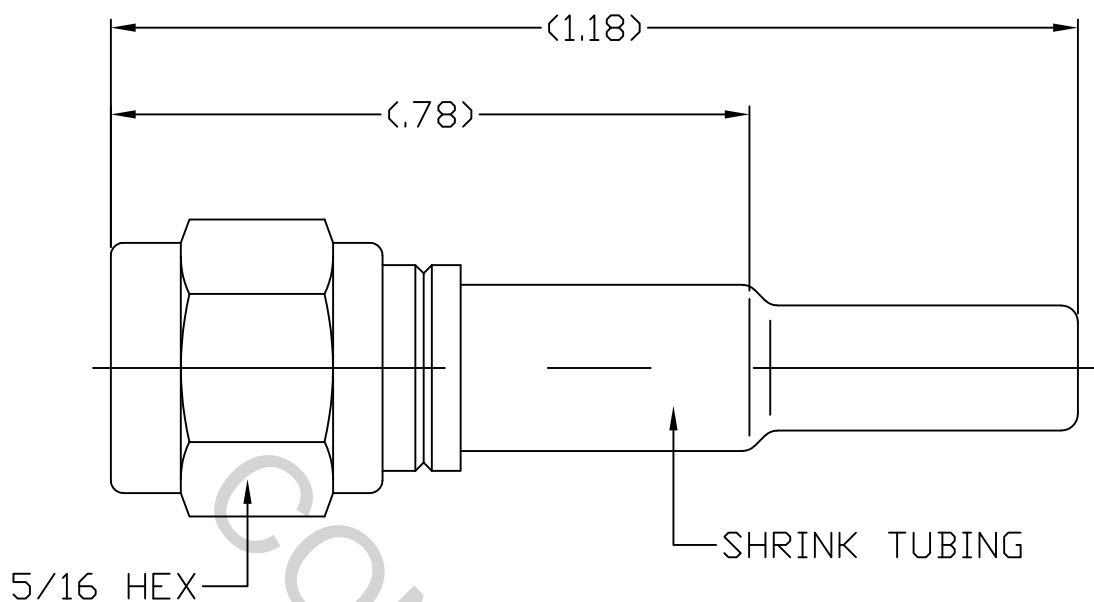


SPECIFICATION CONTROL DRAWING



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


2. ELECTRICAL

| | | |
|---|-------|---|
| FREQUENCY RANGE GHz | _____ | DC TO 3.0 GHz |
| VSWR (MAX) * | _____ | $1.07 + .010 \times \sqrt{\text{FGHz}}$ |
| INSERTION LOSS (dB MAX) * | _____ | $.04 \text{ dB} \times \sqrt{\text{FGHz}}$ |
| NOMINAL IMPEDANCE (OHMS) | _____ | 50 |
| VOLTAGE RATING (MAX. VRMS) | _____ | 250 |
| RF LEAKAGE (MIN. dB DOWN) | _____ | $-100 \text{ dB} - \text{FGHz}$ |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | _____ | $-65^{\circ}\text{C TO } + 165^{\circ}\text{C}$ |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 750 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | _____ | 5,000 |
| CONTACT RESISTANCE | | |
| • CENTER CONTACT (MAX. MILLIOHMS) | _____ | 6.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | _____ | 2.0 |

* TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | |  HAVERHILL, MA 01835 |
|------|---------|--------|------|--|--------------|--------------|--|
| AA | 18-1478 | 5/1/18 | DC | DECIMALS | FRACTIONAL | ANGULAR | |
| | | | | .X ± .030 | ± 1/64 | X ° ± 1° 0' | |
| | | | | .XX ± .010 | | X ° X' ± 15' | |
| | | | | .XXX ± .005 | | | |
| | | | | DRAWN MS | DATE | 5/1/18 | TITLE SMA PLUG, STRAIGHT, CRIMP TO RG-316 CABLE |
| | | | | APPROVED DC | DATE | 5/1/18 | |
| | | | | CODE IDENT. | SHEET 1 OF 2 | | DWG. NO. 9800-1630-2301 |
| | | | | 2J899 | | | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE _____ N/A

MAX RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES) _____ INTERFACE 32.0

● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0

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 + 200° 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.) (190 VRMS)

5. MATERIAL

BODY, COUPLING NUT & CRIMP SLEEVE _____ BRASS PER ASTM-B16, TEMPER H02, ALLOY C36000

CONTACT & RETAINING RING _____ BERYLLIUM COPPER PER ASTM B196/B, COPPER ALLOY
No. UNS-C17300, TEMPER TD04.

INSULATOR _____ TEFLON PER ASTM D 4894-91.

GASKET _____ SILICONE RUBBER PER ZZ-R-765

SHRINK TUBING _____ PER MIL-DTL-23053/4-103-0

6. FINISH

BODY, COUPLING NUT & CRIMP SLEEVE _____ NICKEL PER QQ-N-290, CLASS 1
(.000200 MIN. THK.) OVER COPPER per AMS-2418
(.000010 MIN. THK.)

CONTACT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27
(.000050 MIN. THK.) OVER NICKEL per QQ-N-290
(.000050 MIN. THK.) OVER COPPER per AMS-2418
(.000010 MIN. THK.)

INSULATOR, RETAINING RING, GASKET & TUBING _____ N/A