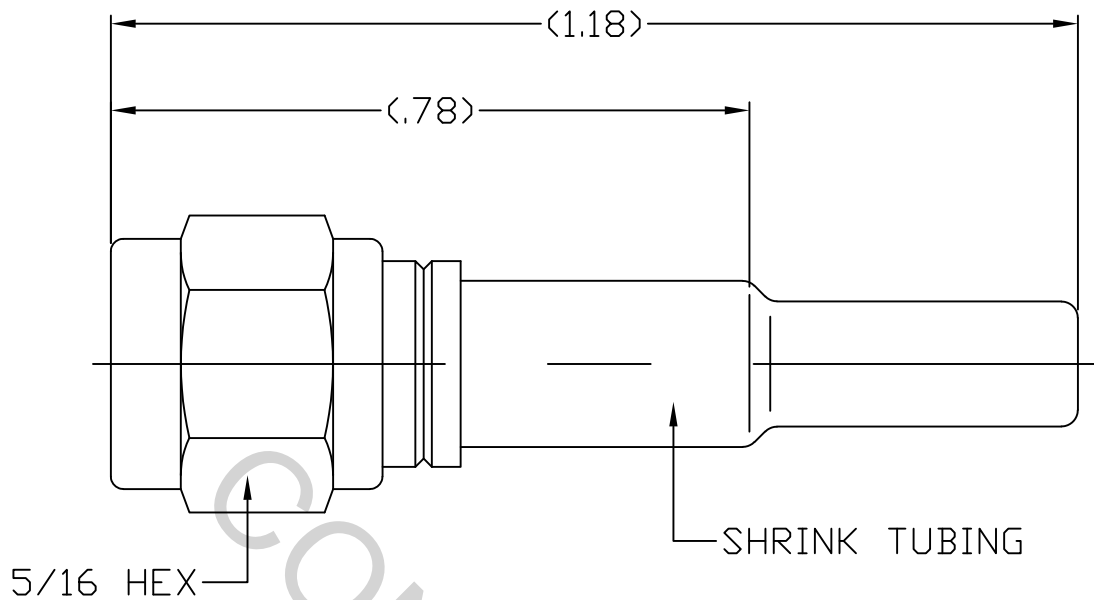


SPECIFICATION CONTROL DRAWING



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
				DECIMALS	FRACTIONAL	ANGULAR	
AA	06-1678	5/22/06	DC	.X ± .030		X ° ± 1° 0'	TITLE SMA PLUG, STRAIGHT, CRIMP TO RG-316 CABLE
AB	18-1478	5/1/18	DC	.XX ± .010 .XXX ± .005	± 1/64	X ° X' ± 15'	
				DRAWN DC	DATE 5/22/06		DWG. NO. 9800-1630-6200
				APPROVED DC	DATE 5/22/06		
				CODE IDENT. 2J899	SHEET 1 OF 2		

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 _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

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

INSULATOR _____ TEFLON PER ASTM D 4894-91.

CRIMP SLEEVE _____ BRASS PER ASTM-B16, TEMPER H02, ALLOY C36000

GASKET _____ SILICONE RUBBER PER ZZ-R-765

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

6. FINISH

BODY & COUPLING NUT _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

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