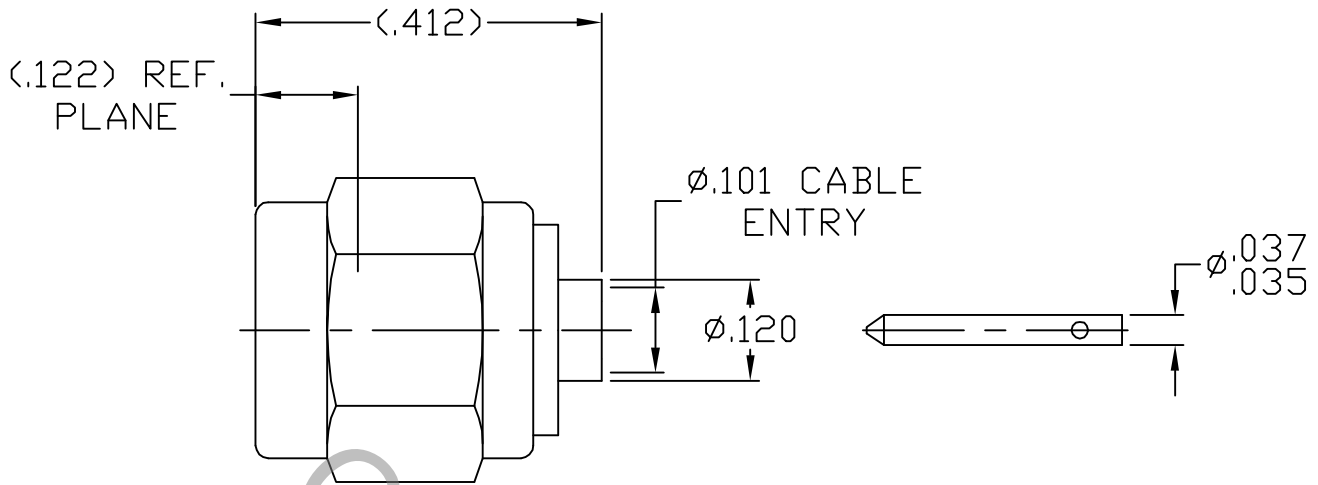


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, (Fig. 310.1)

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 12.4 GHz.
VSWR (MAX.) *	1.05 + .005 x FGHz.
INSERTION LOSS (dB MAX.) *	.03 dB x $\sqrt{\text{FGHz}}$ .
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 ° c TO +165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835
AA	04-1890	7/29/04	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ±/64	ANGULAR X° +1' 0" X° X' ± 15"	
				SURFACE ROUGHNESS 63 √ MIL-STD 10.			TITLE SMA, PLUG WITH CENTER CONTACT TO RD-316 CABLE DIRECT SOLDER ATTACHMENT
				DRAWN DC	DATE 7/29/04		
				APPROVED DC	DATE 7/29/04		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9800-1820-2400	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ N/A
- MIN. 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 + 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. ) ( 375 VRMS )

## 5. MATERIAL

BODY \_\_\_\_\_ BRASS PER ASTM-B16, TEMPER H02, ALLOY C36000

COUPLING NUT \_\_\_\_\_ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.

CONTACT AND RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY No. UNS C17300, TEMPER TD04.

INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 4894-91.

GASKET \_\_\_\_\_ ETHYLENE PROPYLENE

## 6. FINISH

BODY \_\_\_\_\_ GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1 (.000050 MINIMUM THICKNESS) OVER NICKEL PER QQ-N-290, CLASS 1 (.000150 MINIMUM THICKNESS) OVER COPPER PER MIL-C-14550 (.000010 MINIMUM THICKNESS).

COUPLING NUT \_\_\_\_\_ PASSIVATE PER QQ-P-35A, TYPE I.

CONTACT \_\_\_\_\_ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 2 (.000100 MINIMUM THICKNESS) OVER NICKEL PER QQ-N-290, CLASS 1 (.000100 MINIMUM THICKNESS) OVER COPPER PER MIL-C-14550 (.000010 MINIMUM THICKNESS).

INSULATOR AND GASKET \_\_\_\_\_ N/A