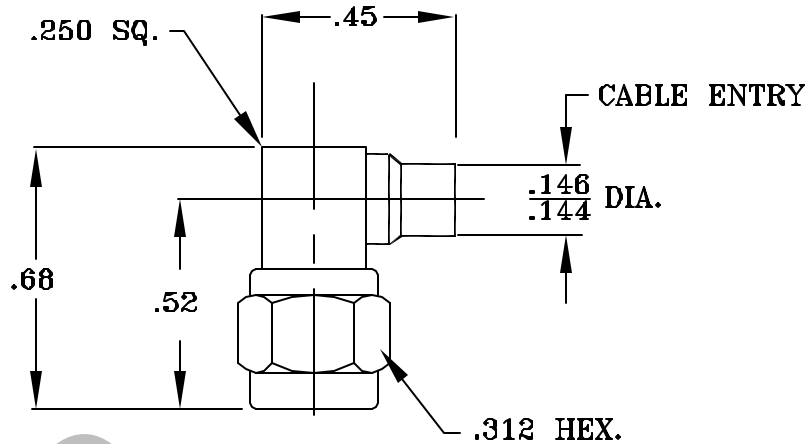


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-98.

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) *	1.35 : 1
INSERTION LOSS (dB MAX.)*	.045 dB x $\sqrt{FGHz}$
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)	1,000
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

\* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 <small>Haverhill MA. 01835</small>
AA	99-0615			DECIMALS X ± .030 XX ± .010 XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1° 0' X' X' ± 15'	
				DRAWN	DATE	<b>TITLE</b> SMA, PLUG R/A, SOLDER ATTACHMENT .141 DIA. SEMI-RIGD CABLE	
				APPROVED	DATE		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO.	9801-4120-2400

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 4.0 LBS.
- MIN RADIAL TORQUE \_\_\_\_\_ N/A

### CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) \_\_\_\_\_ N/A
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ N/A

CONNECTOR DURABILITY (MIN. MATING) \_\_\_\_\_ 1,000

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. ) ( 250 VRMS )

## 5. MATERIAL

BODY ,CONTACT, AND COUPLING NUT \_\_\_\_\_ BRASS PER ASTM B16, TEMPER HO2 ALLOY C36000

RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196, COPPER ALLOY,  
UNS-C-17800, TEMPER TD04.

INSULATOR \_\_\_\_\_ TEFLON PER D-1457.

GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60.

## 6. FINISH

BODY, CONTACT, AND COUPLING NUT \_\_\_\_\_ 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, GASKET AND RETAINING RING \_\_\_\_\_ N/A