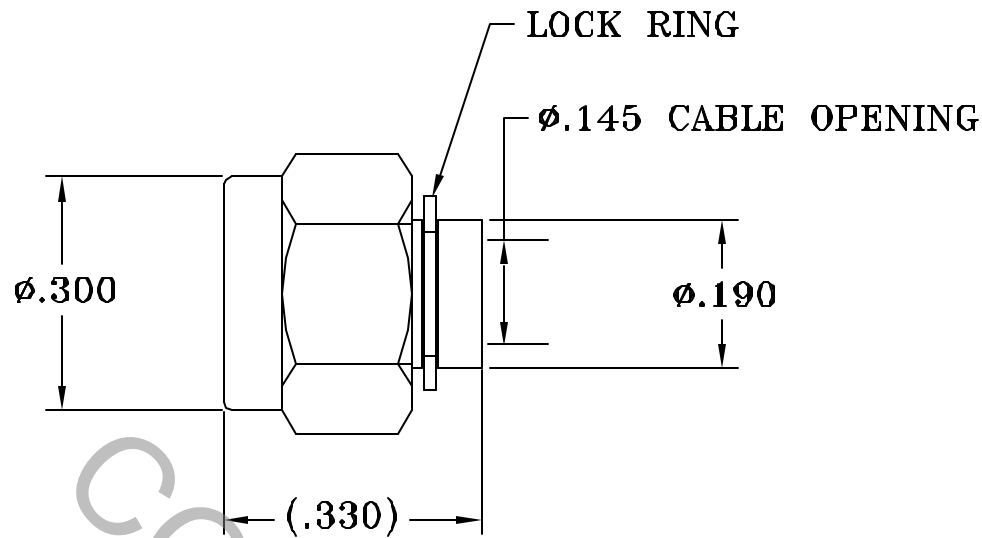


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS FOR SMA PLUG per MIL-STD-348A (Fig. 310-3) AND DYNAWAVE SPECIFICATION MD-98.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz.
VSWR (MAX.) *	1.05 + .005 x FGHz.
INSERTION LOSS (dB MAX.)	.030 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	390
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)	N/A
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01836
AA	03-1461			DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030 .XX ± .010 .XXX ± .005	± 1/84	X° ± 1' 0" X° X' ± 15'	TITLE SMA, PLUG, DIRECT SOLDER FOR SR 141, WITHOUT CONTACT, RETRACTABLE NUT WITH EXTERNAL LOCK RING
				DRAWN B.N.	DATE	4/8/03	
				APPROVED	DATE		DWG. No. 9800-4426-6244
				CODE IDENT.	SHEET	1 OF 2	
				2J899			

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. LBS.) _____ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE

INTERFACE _____ 7 - 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65 °c TO + 200 °a)

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

CONNECTOR BODY AND COUPLING NUT _____ STAINLESS STEEL PER ASTM A 562, TYPE 303, COND. A

LOCK RING _____ BERYLLIUM COPPER PER QQ-C-530, COND. H.T., ALLOY 173

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

6. FINISH

COUPLING NUT _____ PASSIVATE PER QQ-P-35C, TYPE VI.

CONNECTOR BODY _____ GOLD PER MIL-G-45204, TYPE II, GRADE C., CLASS 2; OVER
COPPER PER MIL-C-14550, CLASS 4.

RETAINING RING AND GASKET _____ N/A