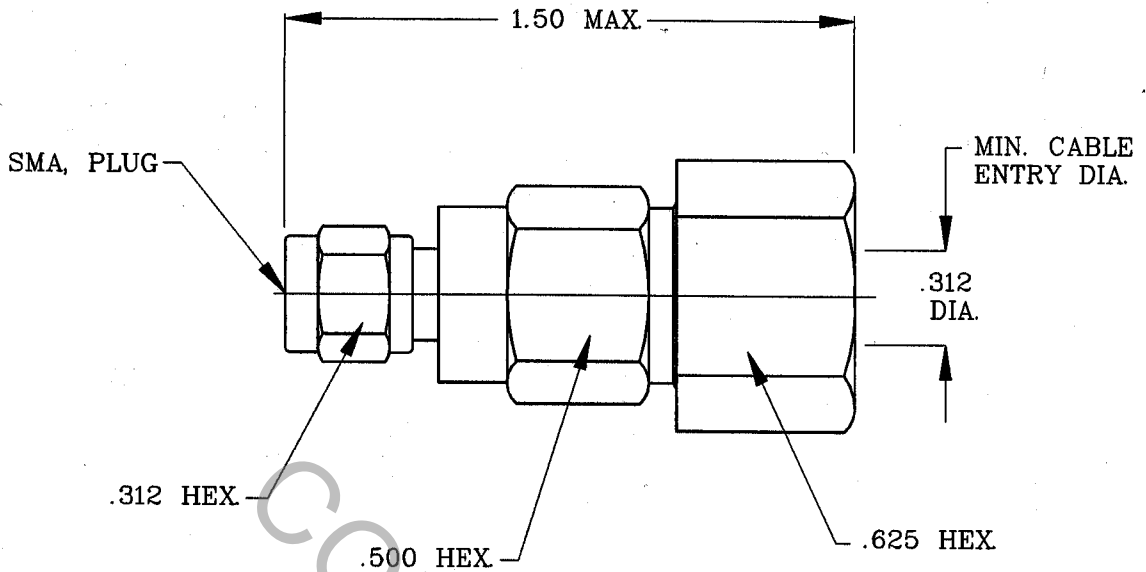


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS SMA PLUG PER MIL-STD-348 (Fig. 310-1).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 12.5 GHz.
VSWR (MAX) *	1.06 + .007 x FGHz.
INSERTION LOSS (dB MAX) *	.035 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 +100 °C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
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 DECIMALS FRACTIONAL ANGULAR X ± .030 ±1/64 X° ± 1' 0" XX ± .010 X° X ± 15' XXX ± .005 SURFACE ROUGHNESS 63 √ MIL-STD 10.	 GEORGETOWN MA 01833
-	816	10/91	T.S.	DRAWN T.S. DATE 10/91	TITLE SMA, PLUG, STRAIGHT COMPRESSION CLAMP TO .250 DIA. DYNAFORM CABLE
				APPROVED DATE	
				CODE IDENT. 2J899	SHEET 1 of 2 DWG. NO. 9800-2700-6275

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT
MAX AXIAL FORCE _____ 8.0 LBS.
MAX. RADIAL TORQUE _____ N/A
CENTER CONTACT AXIAL FORCES
● INSERTION (MAX. OUNCES) _____ 48.0 (CABLE ENTRY)
● WITHDRAWAL (MIN. OUNCES) _____ 2.0 (CABLE ENTRY)
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) _____ 2.0
CONNECTOR DURABILITY (MIN. CYCLES) _____ 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.) (625 VRMS)

5. MATERIAL

BODY AND COUPLING NUT _____ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
COMPRESSION CLAMP, CLAMP NUT AND CLAMP RING _____ BRASS PER QQ-B-626, 1/2 HARD, ALLOY 360.
CENTER CONTACT AND RETAINING RING _____ BERYLLIUM COPPER PER ASTM-B-196, COPPER ALLOY
UNS-C-17300, TEMPER TD04.
INSULATOR _____ TEFLON PER D 1457.
GASKET _____ SILICONE PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60.

6. FINISH

BODY AND COUPLING NUT _____ PASSIVATE PER QQ-P-35A, TYPE I.
COMPRESSION CLAMP, CLAMP NUT AND CLAMP RING _____ NICKEL PER QQ-N-290, CLASS 1 (.0002 MIN. THK.) OVER
COPPER PER MIL-C-14550 (.000010 MIN. THK.)
CENTER CONTACT _____ GOLD PER MIL-G-45204, TYPE I, GRADE C OVER
GOLD PER MIL-G-45204, TYPE I, GRADE A OVER
NICKEL PER QQ-N-290.
INSULATOR, GASKET AND RETAINING RING _____ N/A

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INCORPORATED

SHEET 2 OF 2

DWG.
NO.

9800-2700-6275

REV.

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