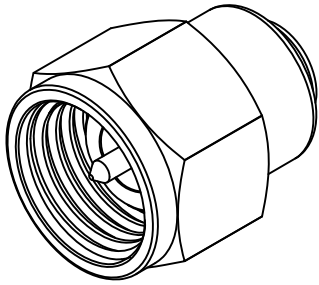
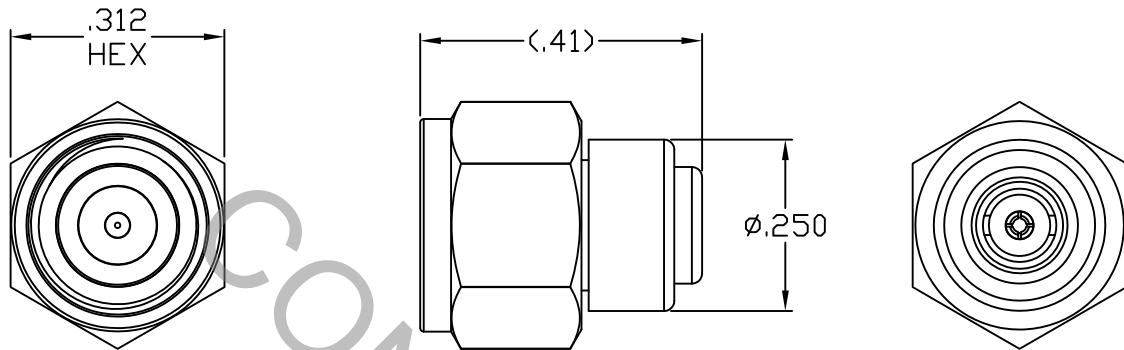
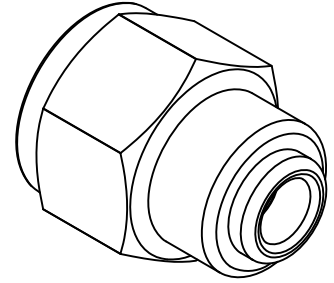


# SPECIFICATION      CONTROL      DRAWING



AVAILABLE ON DYNAWAVE  
CABLE ASSEMBLIES ONLY



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.4 (SMA PLUG).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz
VSWR (MAX) *	_____	1.05 + .004 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)	_____	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			CABLE INCORPORATED HAVERHILL, MA 01835	
AA	15-2164	8/18/15	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1'0" X ° X' ± 15"		
				DRAWN	DC	DATE	3/6/15	TITLE SMA PLUG, SOLDER CLAMP, 7-00190 CABLE
				APPROVED	DC	DATE	8/18/15	
				CODE IDENT.		SHEET	1 OF 2	DWG. NO.      9843-7190-6240
				6DZL5				

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MIN. AXIAL FORCE \_\_\_\_\_ 4.5 LBS.

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 \_\_\_\_\_ 7 - 10 IN. LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 107, COND. C ( -65°C TO +165°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, SOLDER & PRESS SLEEVES \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A  
CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER  
ALLOY No. UNS-C17300, TEMPER TD04.

INSULATORS \_\_\_\_\_ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.

GASKET \_\_\_\_\_ SILICONE RUBBER PER AMS-3304, GRADE 70

## 6. FINISH

BODY, COUPLING NUT & PRESS SLEEVE \_\_\_\_\_ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

SOLDER SLEEVE \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27  
(.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290  
CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS)  
(.000010 MIN. THK.)

CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27  
(.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290  
CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS-2418  
(.000010 MIN. THK.)

INSULATORS & GASKET \_\_\_\_\_ N/A