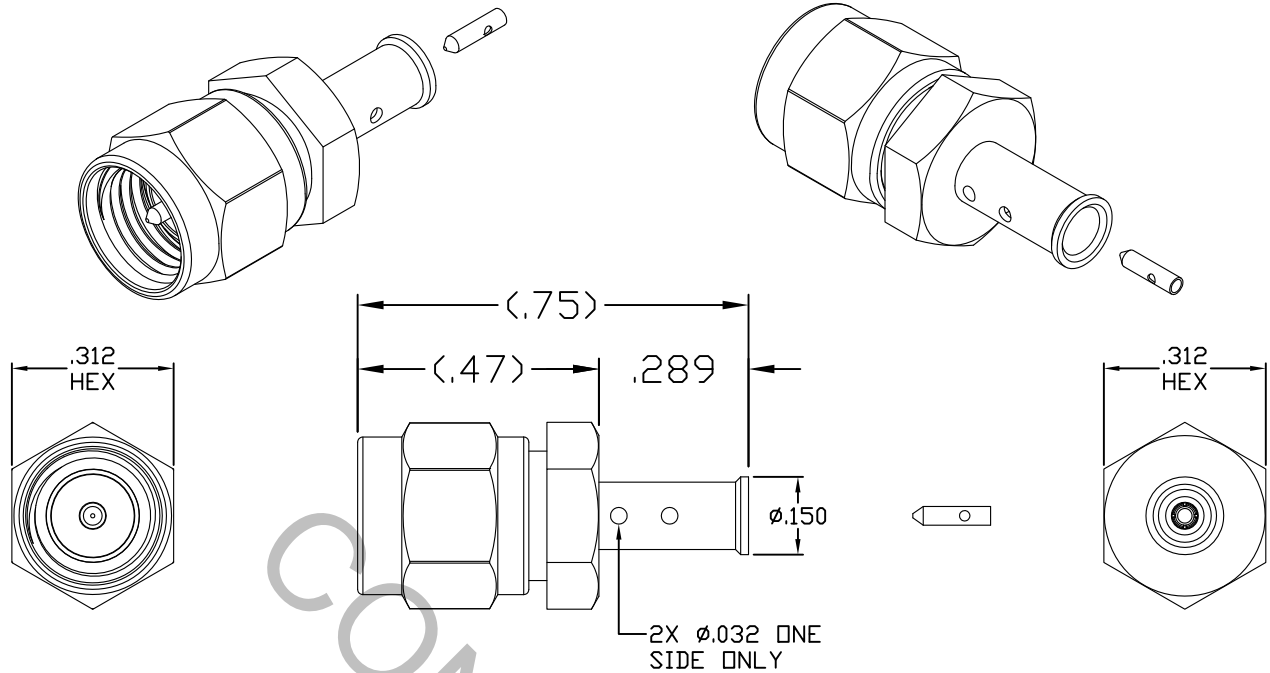


# SPECIFICATION CONTROL DRAWING



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

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 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)	_____	170
RF LEAKAGE (MIN. dB DOWN)	_____	100 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°C TO + 165°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	500
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	10,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	3.0
• 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	16-1914	8/3/16	TS	DECIMALS	FRACTIONAL	ANGULAR	TITLE <b>SMA, PLUG                  DIRECT SOLDER                  DF450W CABLE</b>	
				±.030 .XX±.010 .XX±.005	± 1/64	± 10° X' ± 15'		
				DRAWN	RMS	DATE	8/2/16	DWG. NO.                9800-450W-6100
				APPROVED	TS	DATE	8/3/16	
				CODE IDENT.	SHEET 1 OF 2			
				6DZL5				

# 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. ) ( 125 VRMS )

## 5. MATERIAL

BODY AND COUPLING NUT \_\_\_\_\_ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A

CONTACTS AND RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B 196/B, 196M-03, COPPER ALLOY No. UNS C 17300, TEMPER TD04

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

GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765

## 6. FINISH

BODY \_\_\_\_\_ TRI-METAL ALLOY COMPRISED OF 55%-60% COPPER, 25%-28% TIN, 14%-18% ZINC.  
PLATING THICKNESS: .0001-.0002 THK.

COUPLING NUT \_\_\_\_\_ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

CONTACTS \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE 1, 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.).

INSULATOR, GASKET AND RETAINING RING \_\_\_\_\_ N/A