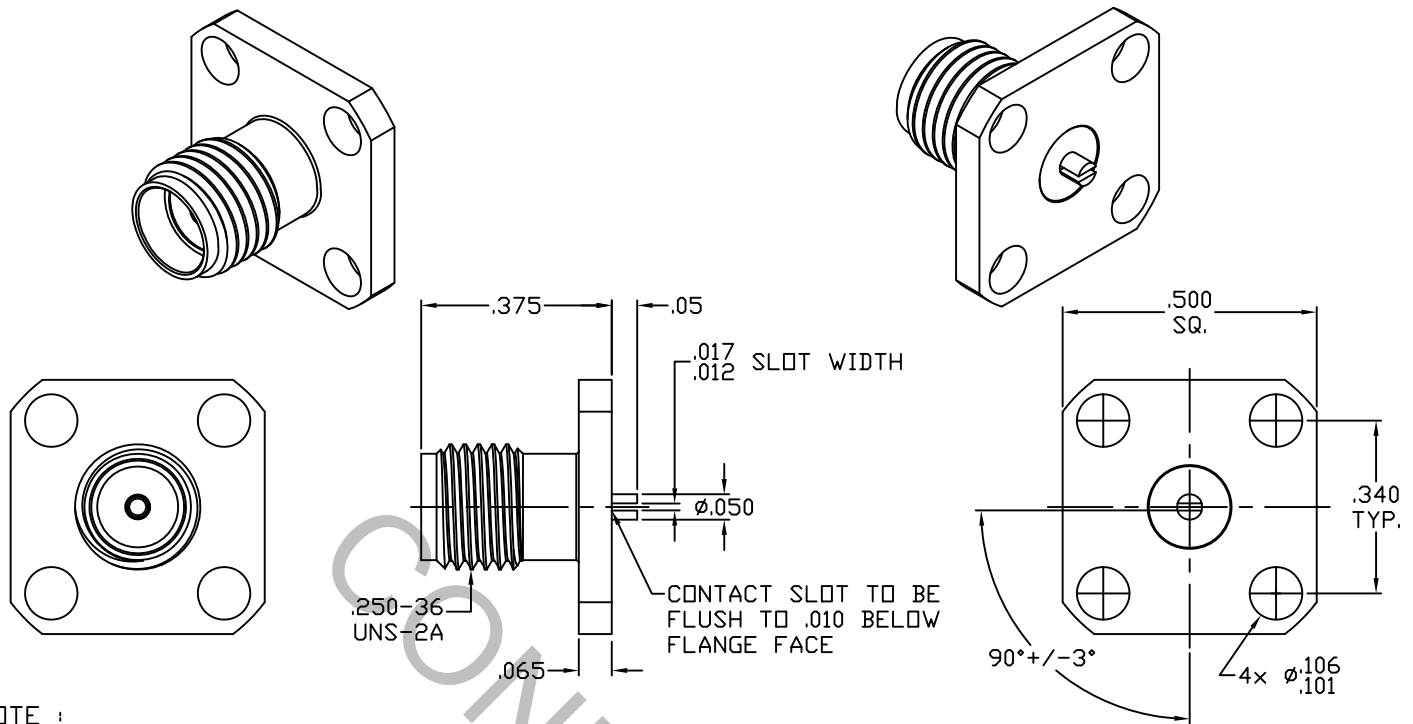


# SPECIFICATION CONTROL DRAWING



**NOTE :**  
 THIS CONNECTOR IS A NON-CAPTURED CONNECTOR, DIELECTRIC AND CONTACT ARE SHIPPED LOOSE IN THE CONNECTOR BAG.

**1. MATING** THIS CONNECTOR MEETS THE MATING REQUIREMENTS OF MIL-PRF-39012, CL 1, CAT A AND INTERFACE DIMENSIONS FOR SMA JACK PER MIL-STD-348 (Fig. 310-2).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz
VSWR (MAX.) *	_____	1.07 + .010 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.045 dB x √FGHz
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	335
RF LEAKAGE (MIN. dB DOWN)	_____	-90 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)	_____	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				 HAVERHILL MA. 01835	
				DECIMALS	FRACTIONAL	ANGULAR			
AA	17-1923	8/1/17	TS	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1° 0' X ° X' ± 15'			
AB	17-2149	9/28/17	DC						
BA	18-1576	5/23/18	TS	DRAWN	TS	DATE	8/1/17	TITLE SMA, JACK FLANGE MOUNT SLOTTED CONTACT NON-CAPTURED CONTACT	
CA	18-1657	6/7/18	TS	APPROVED	DC	DATE	8/1/17		
				CODE IDENT.		SHEET	1 OF 2		
				2J899		DWG. NO.	9954-0010-6400		

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX.AXIAL FORCE \_\_\_\_\_ N/A

MAX. RADIAL TORQUE \_\_\_\_\_ N/A

### CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES) \_\_\_\_\_ 32.0

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 2.0

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 + 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 \_\_\_\_\_ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A

CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER  
ALLOY No. UNS C 17300, TEMPER TD04.

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

## 6. FINISH

BODY \_\_\_\_\_ GOLD PER MIL-DTL-45204, TYPE II, GRADE 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 MIL-DTL-45204, TYPE II, GRADE 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 \_\_\_\_\_ N/A