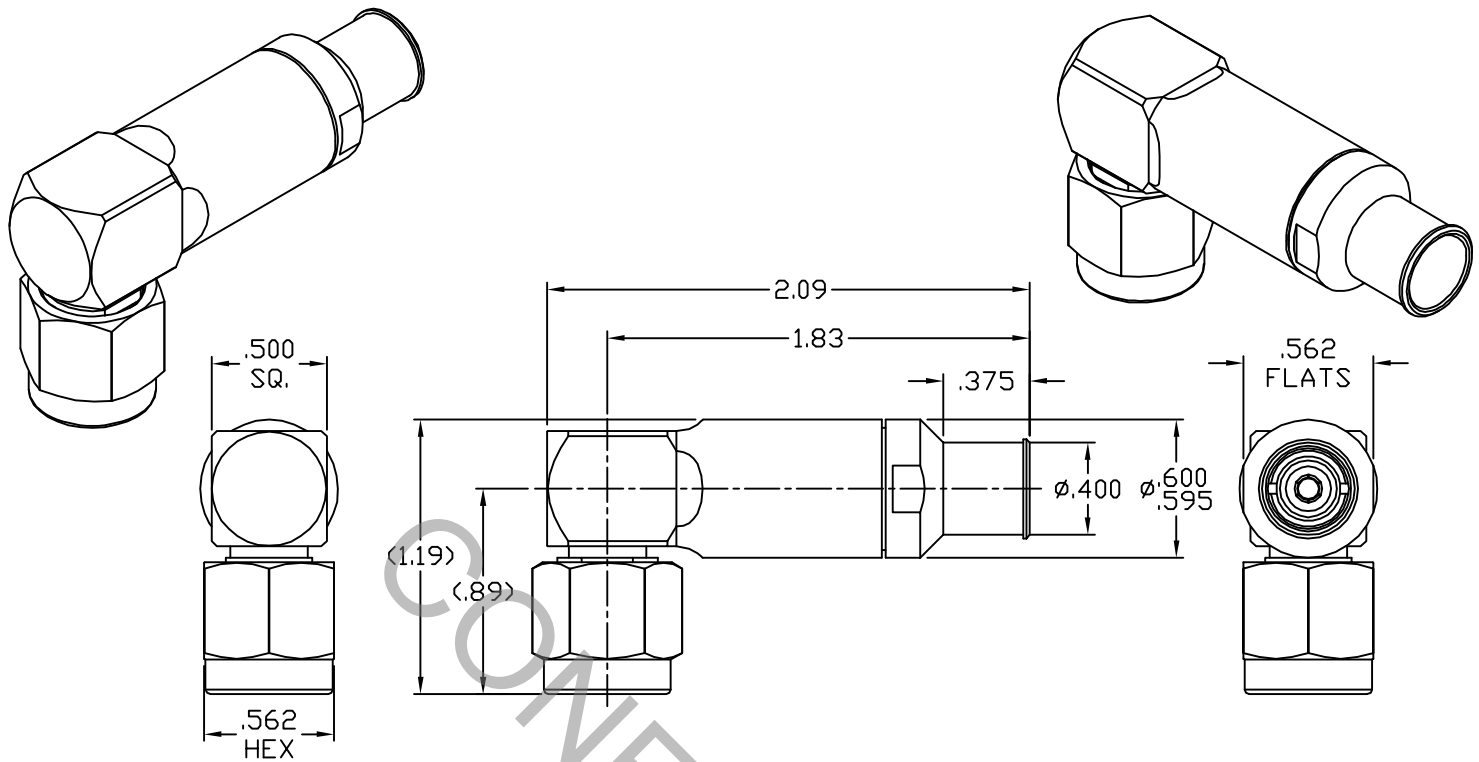


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 313.3 (TNCA PLUG) WITH SOLID OUTER.

## 2. ELECTRICAL

FREQUENCY RANGE GHz \_\_\_\_\_ DC TO 18.0 GHz  
 VSWR (MAX.) \* \_\_\_\_\_  $1.08 + .007 \times \sqrt{\text{FGHz}}$   
 INSERTION LOSS (dB MAX.) \* \_\_\_\_\_  $.05 \text{ dB} \times \sqrt{\text{FGHz}}$   
 NOMINAL IMPEDANCE (OHMS) \_\_\_\_\_ 50  
 VOLTAGE RATING (MAX. VRMS) \_\_\_\_\_ 500  
 RF LEAKAGE (MIN. dB DOWN) \_\_\_\_\_ -100 dB - FGHz  
 TEMPERATURE RATING (DEGREES CENTIGRADE) \_\_\_\_\_ -65°C TO + 165°C  
 DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) \_\_\_\_\_ 1,500  
 INSULATION RESISTANCE (MIN. MEGOHMS) \_\_\_\_\_ 5,000  
 CONTACT RESISTANCE  
 • CENTER CONTACT (MAX. MILLIOHMS) \_\_\_\_\_ 1.5  
 • OUTER CONTACT (MAX. MILLIOHMS) \_\_\_\_\_ 2.0

\* TERMINATED IN A 50 OHM LOAD

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 CABLE INCORPORATED HAVERHILL, MA 01835
AA	12-1633	8/1/12	TS	DECIMALS	FRACTIONAL	ANGULAR	
AB	12-1935	10/11/12	DC	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1° 0' X ° X' ± 15'	
				DRAWN RMS	DATE	10/11/12	TITLE TNCA PLUG, RIGHT ANGLE, SOLDER CLAMP, PLUG-IN CONTACT, DF218 LOW LOSS
				APPROVED DC	DATE	10/11/12	
				CODE IDENT.	SHEET 1 OF 2	DWG. NO.	8401-218H-6240
				6DZL5			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE \_\_\_\_\_ 6.0 LBS.

MAX 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 \_\_\_\_\_ 15 - 18 IN. LBS.

## 4. ENVIRONMENTAL

THERMAL SHOCK \_\_\_\_\_ MIL-STD-202, METHOD 107, COND. B ( -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. ) ( 375 VRMS )

## 5. MATERIAL

BODY, BUSHING, CLAMP NUT & COUPLING NUT \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

CONTACTS & RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.

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

REAR INSULATOR \_\_\_\_\_ CROSS LINKED POLYETHYLENE) 400° F.

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

SOLDER SLEEVE \_\_\_\_\_ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.

## 6. FINISH

BODY, BUSHING, CLAMP NUT & COUPLING NUT \_\_\_\_\_ 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.)

CONTACTS \_\_\_\_\_ 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, RETAINING RING & GASKET \_\_\_\_\_ N/A