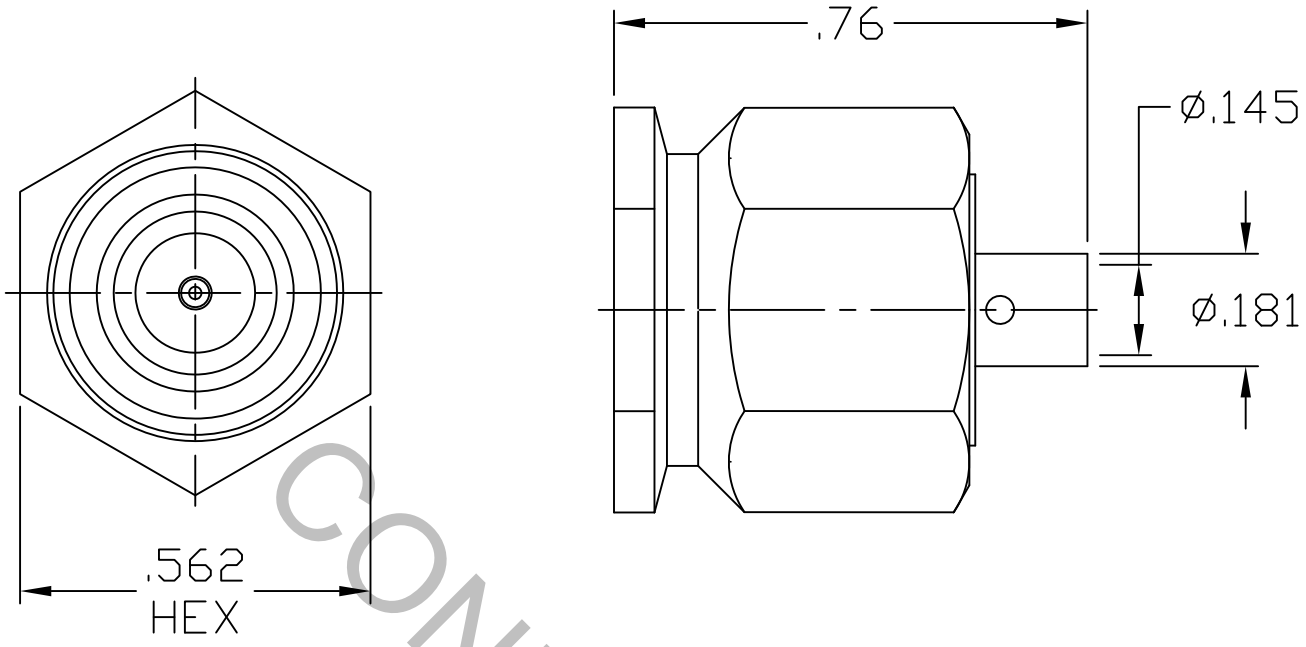
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS MIL-STD-348 Fig. 313.1 (TNC PLUG) WITH SOLID OUTER.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX.) ❋	1.07 + .007 x FGHz
INSERTION LOSS (dB MAX.) ❋	−.05 dB x $\sqrt{\text{FGHz}}$
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)	2.0
• OUTER CONTACT (MAX. MILLIOHMS)	1.0

❋ TERMINATED IN A 50 OHM LOAD

This Document contains proprietary and confidential information.

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	10-1075	1/25/10	TS
AB	16-2491	12/1/16	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	± 1/64	X °±1°0' X ° X' ± 15'

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 1/25/10

APPROVED DC DATE 1/25/10

TITLE
KTNC PLUG,
DIRECT SOLDER,
ø.141 SEMI-RIGID

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 8400-4121-2700

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MAX. AXIAL FORCE — 4.5 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 — 30 – 35 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.) (375 VRMS)

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5. MATERIAL

BODY AND COUPLING NUT	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.
CONTACT AND RETAINING RING	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.
GASKET	SILICONE RUBBER PER ZZ–R–765E

6. FINISH

BODY	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 COPPER PER AMS–2418 (.000010 MIN. THK.).
COUPLING NUT	NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000200 MIN. THK.) COPPER PER AMS–2418 (.000010 MIN.)
CONTACT	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