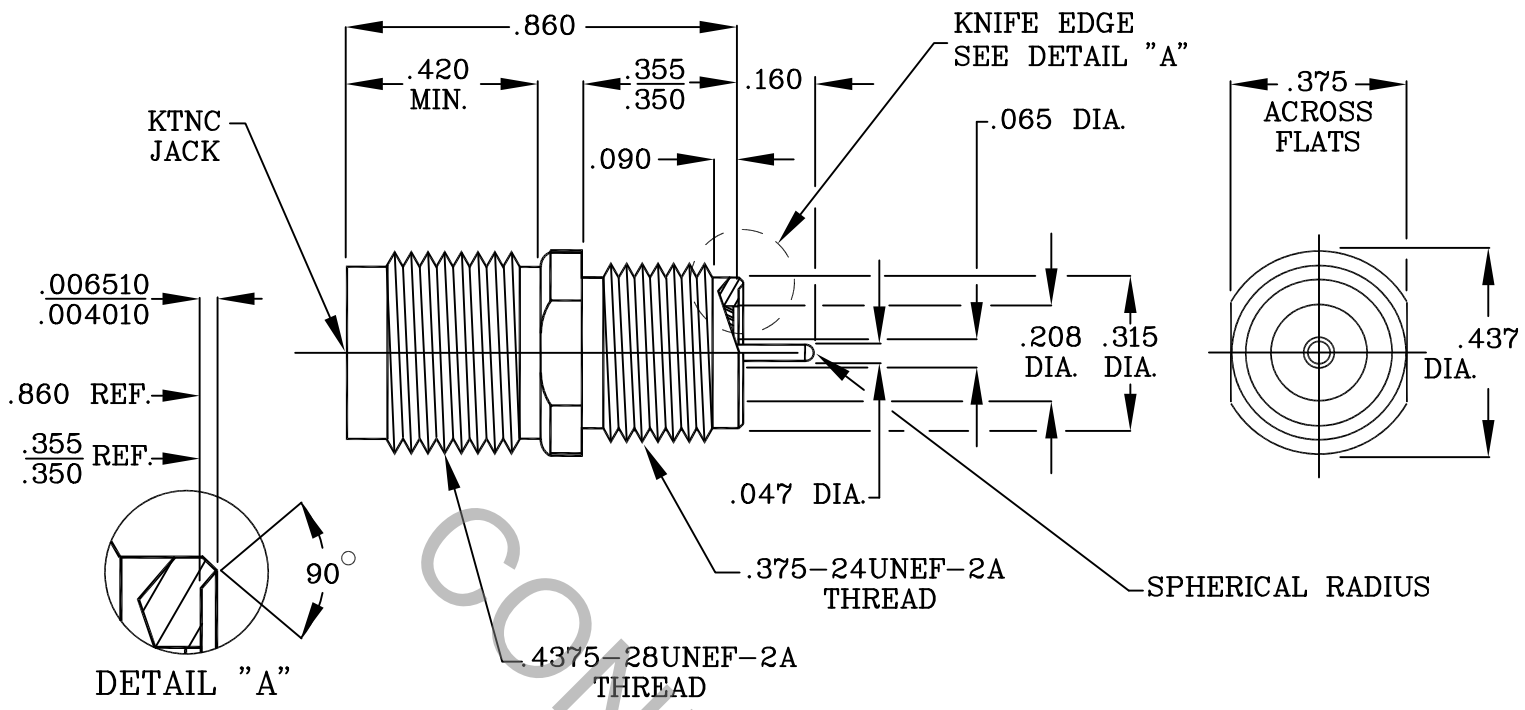
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A (Fig. 313.2 TNC, JACK) AND DYNAWAVE SPECIFICATION MD-85 (KTNC 18.0 GHz.)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.07 + .007 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.05 dB x $\sqrt{FGHz}$.
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)	1,500
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	1.5
• 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.
–	997	8/93	T.S.
AA	16-1599	5/13/16	T.S.

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL: ±1/64
ANGULAR: X° ±1°0', X° X' ±15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN T.S. DATE 8/93

APPROVED DGG DATE 8/93

TITLE KTNC, JACK SCREW-IN .375-24UNEF-2A THREAD STRAIGHT TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 8530-0031-6247

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — 6.0 LBS.
- MIN. RADIAL TORQUE — N/A

CENTER CONTACT AXIAL FORCES
- INSERTION (MAX. OUNCES) — 24.0
- WITHDRAWAL (MIN. OUNCES) — 2.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) — 2.0

CONNECTOR DURABILITY (MIN. CYCLES) — 500

RECOMMENDED TORQUE

INTERFACE — 20.0 TO 25.0 IN./LBS.

INSTALLATION (PANEL) (.375–24UNEF–2A THREAD) — 30.0 TO 35.0 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.) (375 VRMS)

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5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196/B, 196M–03, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

CONNECTOR BODY	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4
CENTER CONTACT	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 1.25 (.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