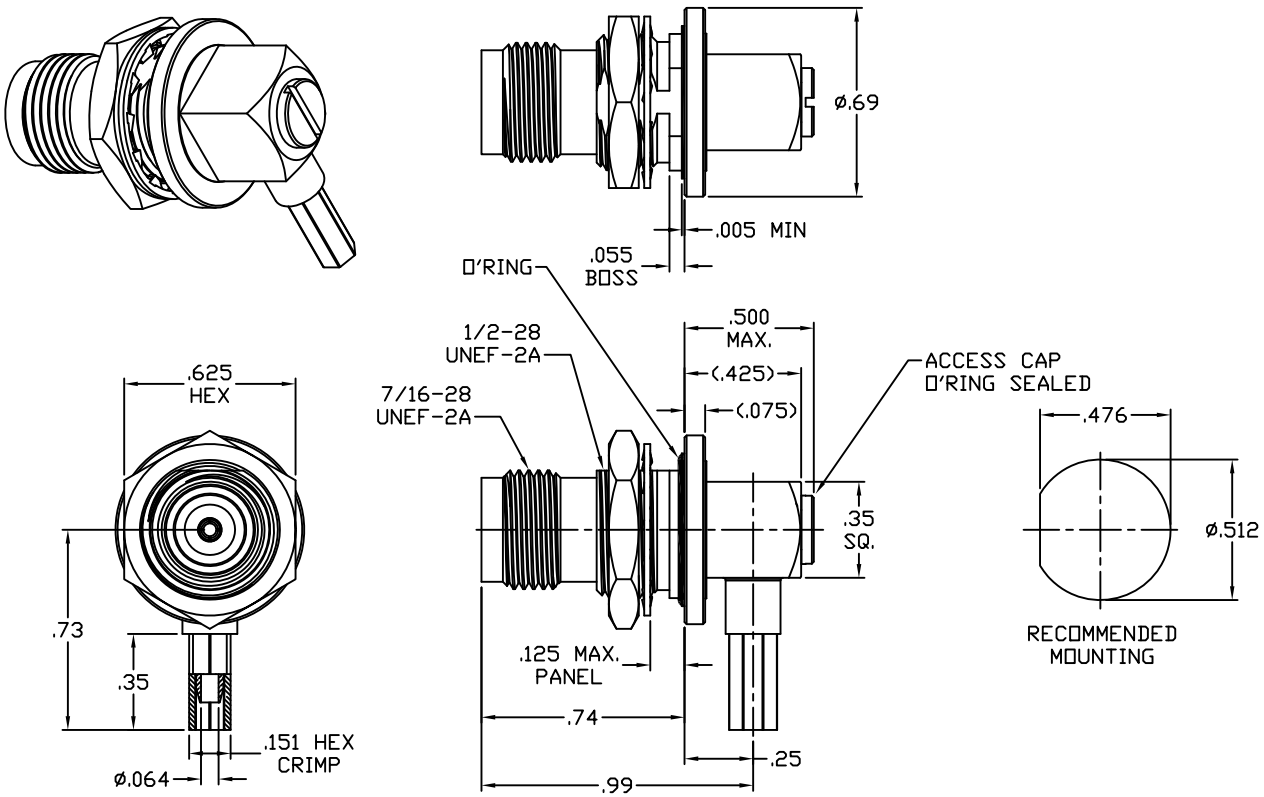
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 313.2 (TNC, JACK).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 1.0 GHz
VSWR (MAX.) ❋	1.22 + .010 x FGHz
INSERTION LOSS (dB MAX.) ❋	.08 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)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• 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.
AA	15-1610	4/23/15	TS

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	4/23/15
APPROVED	DC	DATE	4/23/15

TITLE: TNC JACK, RIGHT ANGLE BULKHEAD, CRIMP, DB RG316

CODE IDENT.	SHEET 1 OF 2	DWG. NO.
2J899		8311-1830-6200

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) — INTERFACE 40.0
- WITHDRAWAL (MIN. OUNCES) — INTERFACE 1.5

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) — 2.0
CONNECTOR DURABILITY (MIN. CYCLES) — 500
RECOMMENDED MATING TORQUE — 15 – 18 IN. LBS.
RECOMMENDED MOUNTING TORQUE — 22 – 28 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 107, 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.) (250 VRMS)
INGRESS PROTECTION	IP67

5. MATERIAL

BODY, LOCK NUT, LOCKWASHER & CAP	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND A.
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.
O'RINGS	SILICONE RUBBER PER ZZ–R–765E, CLASS 1 OR ASM 3304.
CRIMP SLEEVE	SEAMLESS COPPER TUBE.

6. FINISH

BODY, LOCK NUT, LOCKWASHER & CAP	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
CRIMP SLEEVE	NICKEL PER SAE–AMS–QQ–N–290, CLASS 1, (.000200 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.)
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 & O'RINGS	N/A