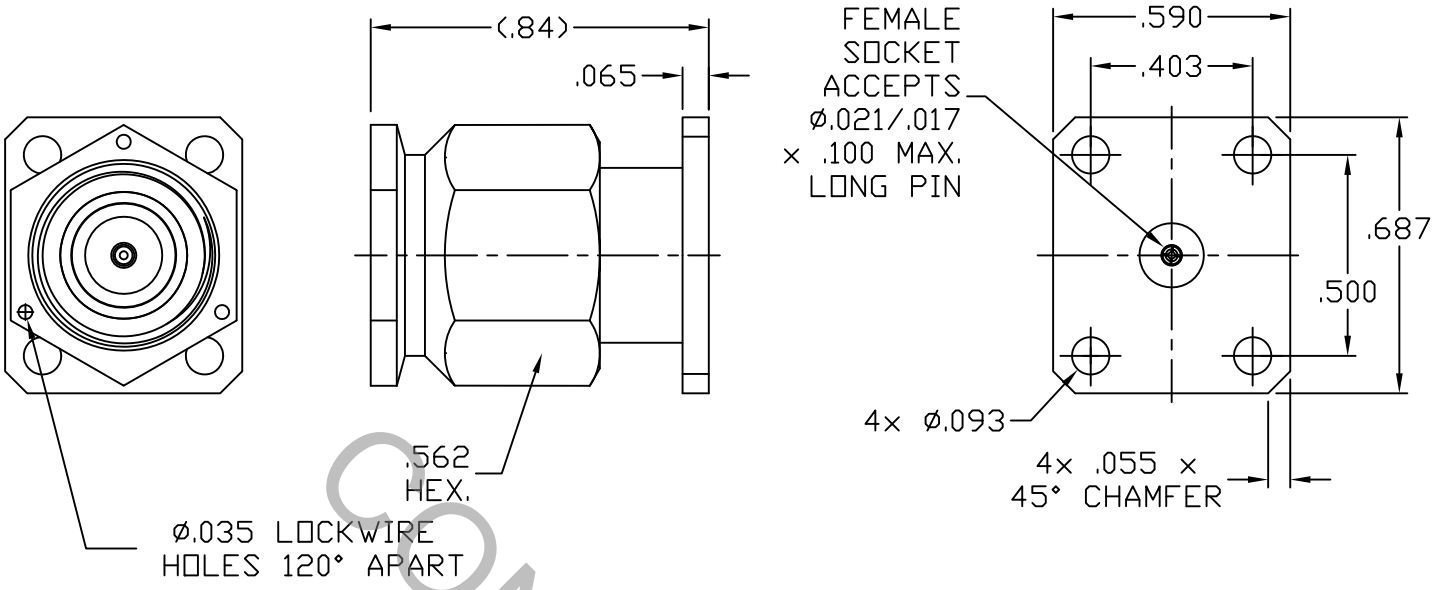
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 313.1 (TNC PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX.) ❋	1.07 + .010 x FGHz
INSERTION LOSS (dB MAX.) ❋	.05 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	300
RF LEAKAGE (MIN. dB DOWN)	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	900
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

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REV.	DCN NO.	DATE	APP.
AA	17-1416	3/28/17	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	3/28/17
APPROVED	DC	DATE	3/28/17

TITLE: TNC, PLUG
4 HOLE RECTANGULAR
FLANGE FIELD REPLACEABLE
ACCEPTS ø.021/.017 PIN

CODE IDENT.	SHEET 1 OF 2	DWG. NO.
2J899		8454-0081-6218

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) — 32.0 REAR
- WITHDRAWAL (MIN. OUNCES) — 1.0 REAR

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

CONNECTOR DURABILITY (MIN. CYCLES) — 500

RECOMMENDED MATING TORQUE — 10 – 15 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.) (225 VRMS)

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5. MATERIAL

BODY & COUPLING NUT	STAINLESS STEEL PER ASTM–A–581, TYPE 303, COND. A
CONTACT & 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–765.

6. FINISH

BODY & COUPLING NUT	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
CONTACT	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.)
INSULATOR, RETAINING RING AND GASKET	N/A