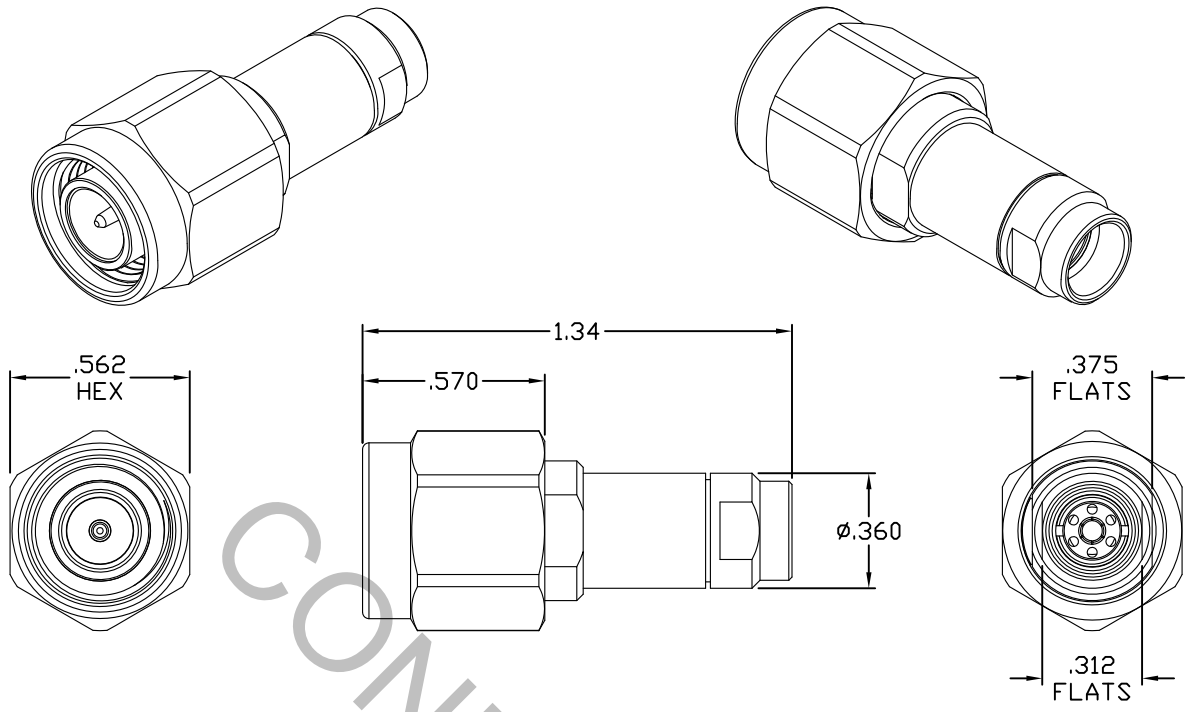
SPECIFICATION CONTROL DRAWING



SOLD ON DYNAWAVE CABLE ASSEMBLIES ONLY

CONFIDENTIAL

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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX.) ❋	1.06 + .006 x FGHz
INSERTION LOSS (dB MAX.) ❋	.05 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	333
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
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

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	16-1557	5/6/16	TS

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave CABLE INCORPORATED
HAVERHILL, MA 01835

DRAWN RMS DATE 5/6/16

APPROVED TS DATE 5/6/16

TITLE TNCA PLUG, SOLDER CLAMP, PLUG-IN CONTACT, 7-00302 LOW LOSS

CODE IDENT. 6DZL5

SHEET 1 OF 2

DWG. NO. 8400-7302-6245

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.

CONFIDENTIAL

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.) (250 VRMS)

5. MATERIAL

BODY & COUPLING NUT, CLAMP NUT, BUSHING & PRESS SLEEVE	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
CONTACTS & RETAINING RING	BERYLLIUM COPPER PER ASTM B196/B 196M–03, COPPER ALLOY NO. UNS–C17300, TEMPER TD04.
INTERFACE INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
REAR INSULATOR	CROSS LINKED POLYETHYLENE
SOLDER SLEEVE	BRASS PER ASTM–B–16, TEMPER H02, ALLOY C36000.
GASKET & O–RINGS	SILICONE RUBBER PER ZZ–R–765

6. FINISH

BODY & COUPLING NUT, CLAMP NUT, BUSHING & PRESS SLEEVE	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
CONTACTS	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 0.75 (.000030 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.)
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 COPPER PER AMS–2418 (.000010 MIN. THK.)
INSULATORS, GASKET, O–RINGS & RETAINING RING	N/A