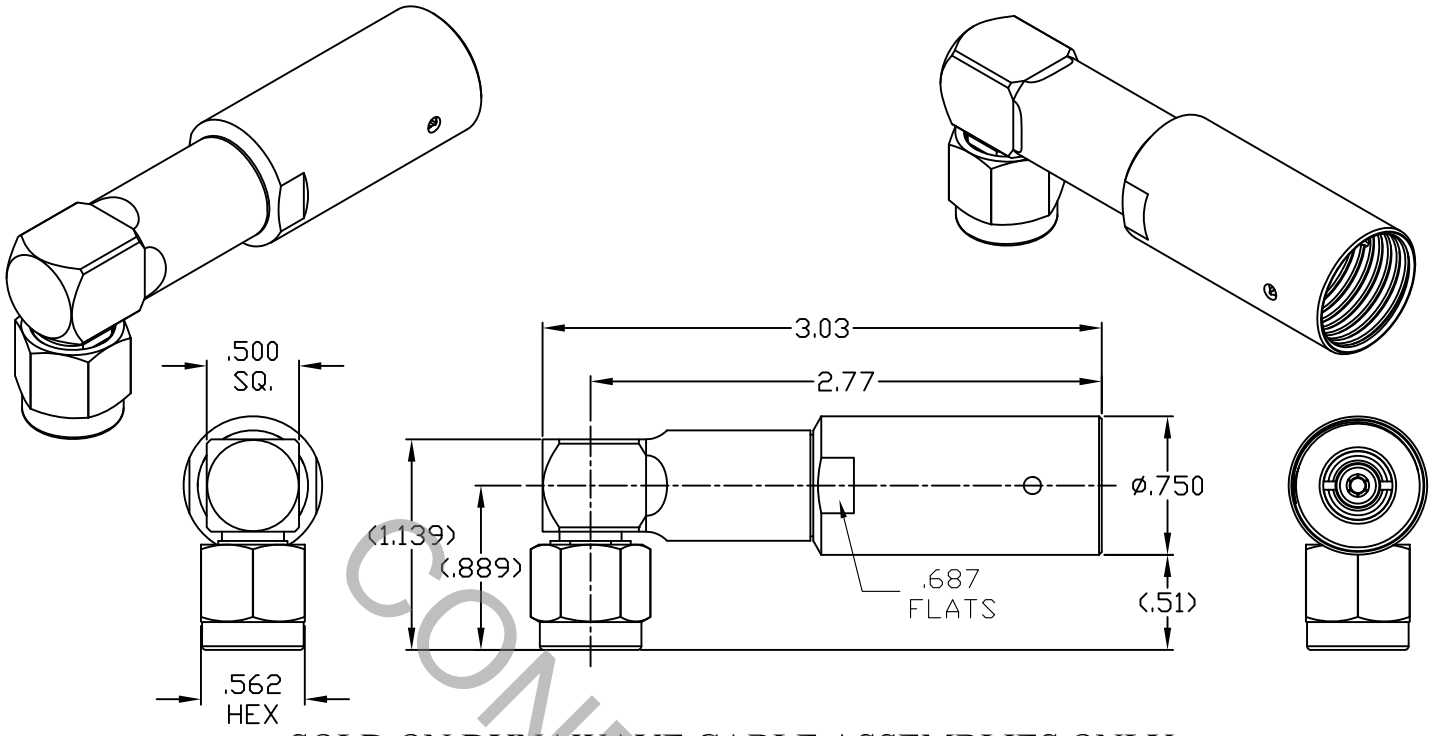
SPECIFICATION CONTROL DRAWING



SOLD ON DYNAWAVE CABLE ASSEMBLIES ONLY

CONFIDENTIAL

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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX.) ❋	1.08 + .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)	1.5
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	13-1423	3/26/13	DC

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 3/26/13

APPROVED DC DATE 3/26/13

TITLE
TNCA PLUG, RIGHT ANGLE, SOLDER CLAMP, PLUG-IN CONTACT, DF118 ARMORED

CODE IDENT. 6DZL5

SHEET 1 OF 2

DWG. NO. 8401-118A-6240

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.

4. ENVIRONMENTAL

THERMAL SHOCK	MIL–STD–202, METHOD 107, COND. B (–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)

5. MATERIAL

BODY, BUSHINGS, CLAMP NUT, COUPLING NUT, CUBE & PRESS SLEEVE	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
CONTACTS & RETAINING RING	BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATORS	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
INSULATOR BEAD	CROSS LINKED POLYETHYLENE (400° F).
GASKET & O–RINGS	SILICONE RUBBER PER ZZ–R–765.
SOLDER SLEEVE	BRASS PER ASTM–B–16, TEMPER H02, ALLOY C36000.

6. FINISH

BODY, BUSHINGS, CLAMP NUT, COUPLING NUT, CUBE & PRESS SLEEVE	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
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.)
INTERFACE 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.)
INTERNAL 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.)
INSULATORS, RETAINING RING, GASKET & O–RINGS	N/A

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