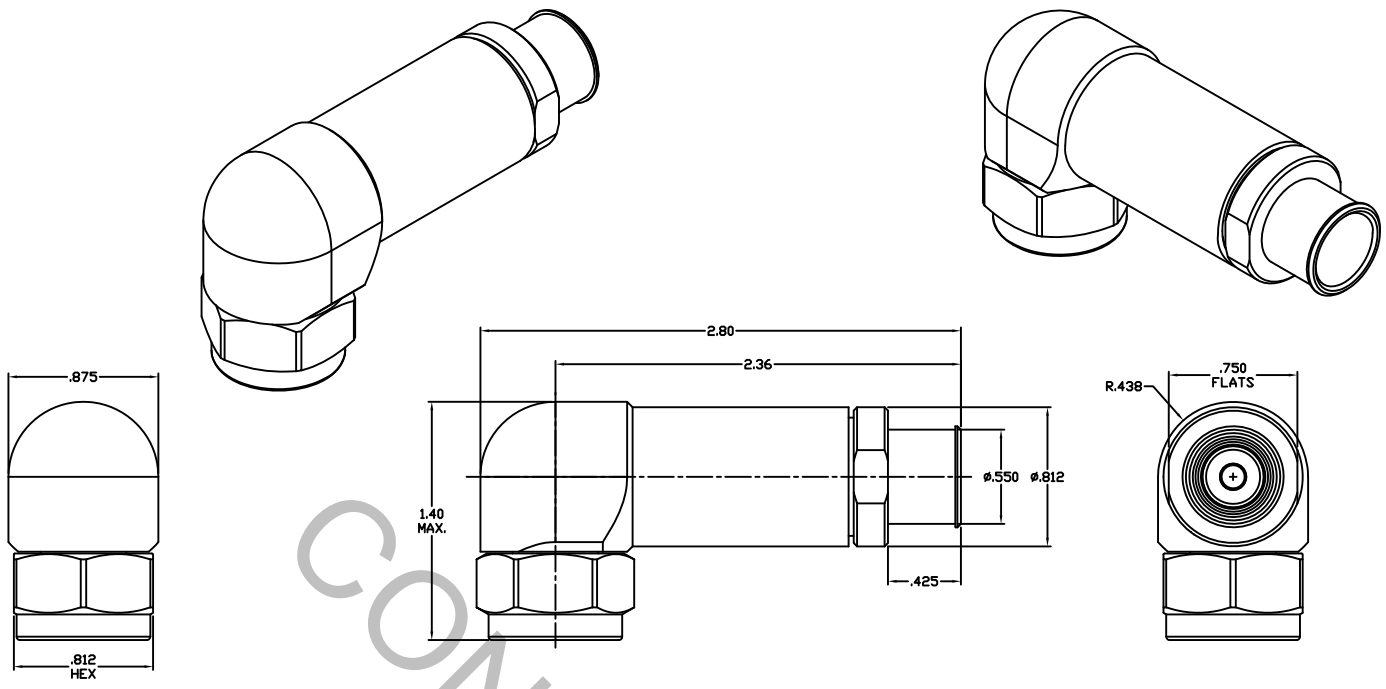
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 304.1 (N PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 8.0 GHz
VSWR (MAX.) ❋	1.15 + .008 x FGHz
INSERTION LOSS (dB MAX.) ❋	.07 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	833
RF LEAKAGE (MIN. dB DOWN)	−100 dB − FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	2,500 @ SEA LEVEL
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	2.0
• 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	10-2029	11/8/10	TS
AB	11-1035	1/14/11	DC
BA	11-1598	7/15/11	DC
CA	11-1820	9/14/11	DC
CB	11-1847	9/21/11	DC
CC	11-1955	10/26/11	TS
DA	17-1089	1/19/17	BT

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 TS DATE 11/8/10

APPROVED DC DATE 11/8/10

TITLE
N PLUG, RIGHT ANGLE, SOLDER CLAMP, T7-00007 LOW LOSS

CODE IDENT. 6DZL5

SHEET 1 OF 2

DWG. NO. 7401-7007-6200

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	20 – 23 IN. LBS.
CONNECTOR/CABLE PULL FORCES	60 LBS. MIN.

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.) (625 VRMS)

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5. MATERIAL

BODY & REAR CONTACT	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.
GASKET & O–RING	SILICONE RUBBER PER ZZ–R–765.
R/A CONTACT, CUBE, COUPLING NUT, SOLDER SLEEVE, BUSHING & CLAMP NUT	BRASS PER ASTM–B–16, TEMPER H02, ALLOY C36000.

6. FINISH

CUBE, COUPLING NUT, BUSHING & CLAMP NUT	TRI–METAL ALLOY COMPRISED OF 55% – 60% COPPER, 25% – 28% TIN & 14% – 18% ZINC. PLATING THICKNESS .0001–.0002 THK.
SOLDER SLEEVE	SILVER PER ASTM B700, TYPE I, GRADE B (.00030 MIN. THK.) OVER COPPER PER ASTM B734 (.00010 MIN. THK.)
BODY & CONTACTS	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER COPPER PER AMS–2418 (.000040 MIN. THK.)
INSULATORS, GASKET & O–RING	N/A