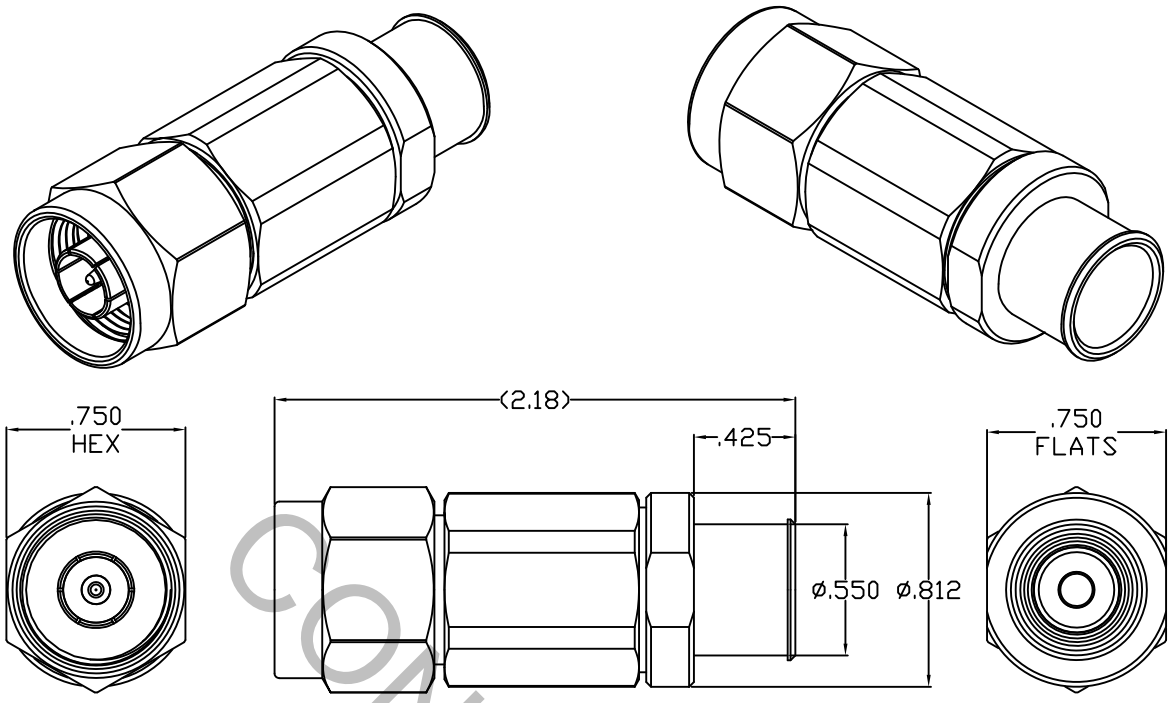
SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 8.0 GHz
VSWR (MAX.) ❋	1.06 + .006 x FGHz
INSERTION LOSS (dB MAX.) ❋	.05 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	667
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	2,000 @ SEA LEVEL
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	1.0
• 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.
BA	11-1016	1/7/11	DC
BB	11-1490	5/27/11	DC
CA	11-1492	5/27/11	DC
DA	11-1820	9/14/11	DC
DB	11-1847	9/21/11	DC
DC	11-1955	10/26/11	TS
EA	17-1083	1/18/17	BT

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL: ±1/64
ANGULAR: X °±1 °0', X ° X' ±15'

dynawave CABLE INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 11/1/10
APPROVED DC DATE 11/1/10

TITLE
N PLUG
SOLDER CLAMP TO
T7-00007 LOW LOSS CABLE

CODE IDENT. 6DZL5
SHEET 1 OF 2
DWG. NO. 7400-7007-6200

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 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.) (500 VRMS)

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5. MATERIAL

BODY, SOLDER SLEEVE, CONTACT, BUSHING CLAMP NUT & COUPLING NUT	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.
INTERFACE BODY & RETAINING RING	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.
GASKET & O–RING	SILICONE RUBBER PER ZZ–R–765

6. FINISH

BODY, BUSHING, CLAMP NUT & COUPLING 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.)
CONTACT & INTERFACE BODY	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.25 (.000050–.000075 THK.) OVER COPPER PER AMS 2418, (.000040 MIN. THK.).
INSULATOR, O–RING, GASKET & RETAINING RING	N/A