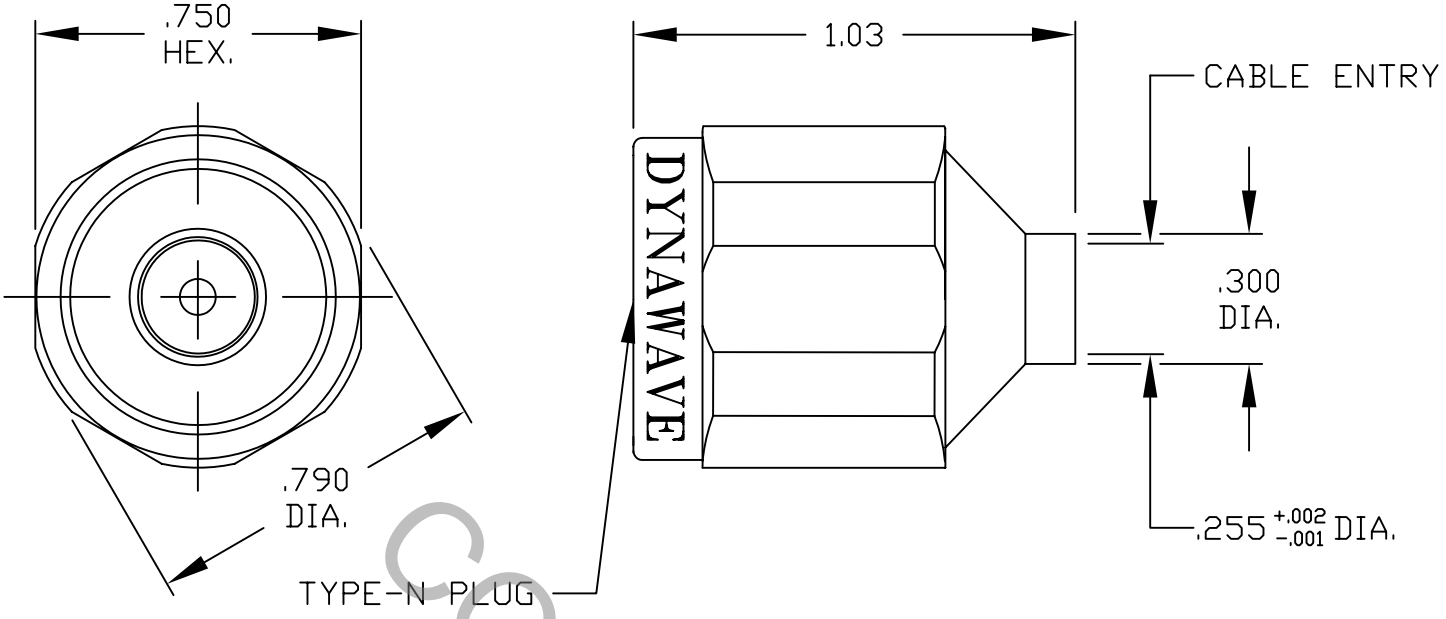
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS FOR TYPE-N PLUG per MIL-STD-348 (Fig. 304-1).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 12.5 GHz.
VSWR (MAX.) ❋	1.10 + .010 x FGHz
INSERTION LOSS (dB MAX.)	.05 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	335
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)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	2.0
• OUTER CONTACT (MAX. MILLIOHMS)	3.0

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	02-0197		

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 G.E. DATE 03-21-02

APPROVED DATE

TITLE TYPE-N, PLUG
DIRECT SOLDER TO .250
DIA. SEMI-RIGID CABLE
(WITH CENTER CONTACT)

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 7400-2502-2702

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
• MIN. AXIAL FORCE	N/A
• MIN. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES (REAR)	
• INSERTION (MAX. OUNCES)	N/A
• WITHDRAWAL (MIN. OUNCES)	N/A
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.)	2.0
CONNECTOR DURABILITY (MIN. MATING)	1,000
RECOMMENDED MATING TORQUE	30 – 35 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.) (250 VRMS)

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5. MATERIAL

CONNECTOR BODY , COUPLING NUT AND CENTER CONTACT	BRASS PER ASTM B16, TEMPER HO2, ALLOY C36000.
RETAINING RING	BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
INSULATOR	TEFLON PER ASTM D 1710
GASKET	SILICONE RUBBER PER ZZ–R–765, CLASS IIB, GRADE 50 OR 60.

6. FINISH

CONNECTOR BODY AND COUPLING NUT	NICKEL PER QQ–N–290, CLASS 1 OVER WOODS OR WATTS NICKEL OVER COPPER PER MIL–C–14550.
CENTER CONTACT	GOLD PER ASTM B 488, TYPE 2, CODE C, CLASS 1.25 (.000050 MIN.) (.00010 MIN.) OVER COPPER PER MIL–C–14550 (.000010 MIN.).
INSULATOR, GASKET, RETAINING RING	N/A