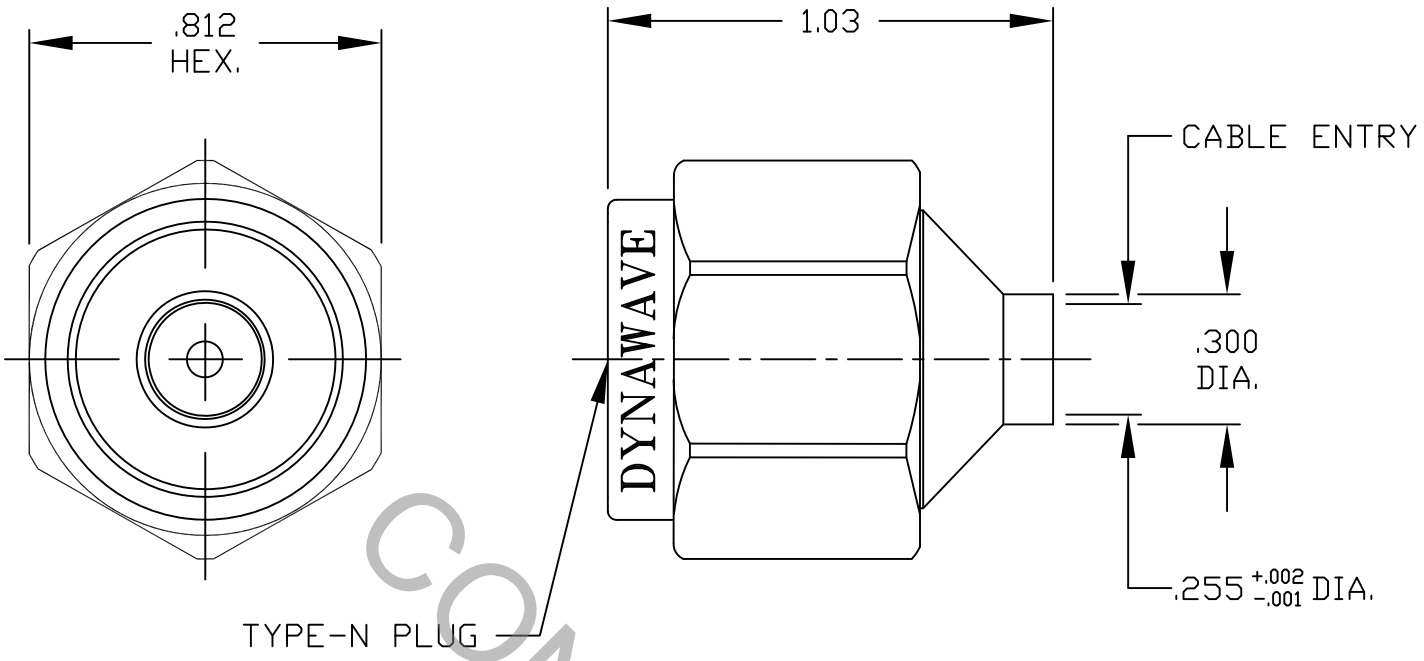
SPECIFICATION CONTROL DRAWING



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

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

RoHS COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	02-0155	3/27/02	TS
AB	13-2624	11/26/13	DC

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

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN GE DATE 3/26/02

APPROVED TS DATE 3/26/02

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

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 7400-2502-2701

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN./LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	1,000

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-B-16, TEMPER H02, ALLOY C36000.
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	SILICONE RUBBER PER ZZ-R-765.

6. FINISH

CONNECTOR BODY AND COUPLING NUT	NICKEL PER SAE-AMS-QQ-N-290, CLASS 1 (.000200 MIN. THK.) OVER COPPER PER AMS-2418 (.000010 MIN. OR AS SPECIFIED).
CENTER 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.)
INSULATOR, GASKET, RETAINING RING	N/A