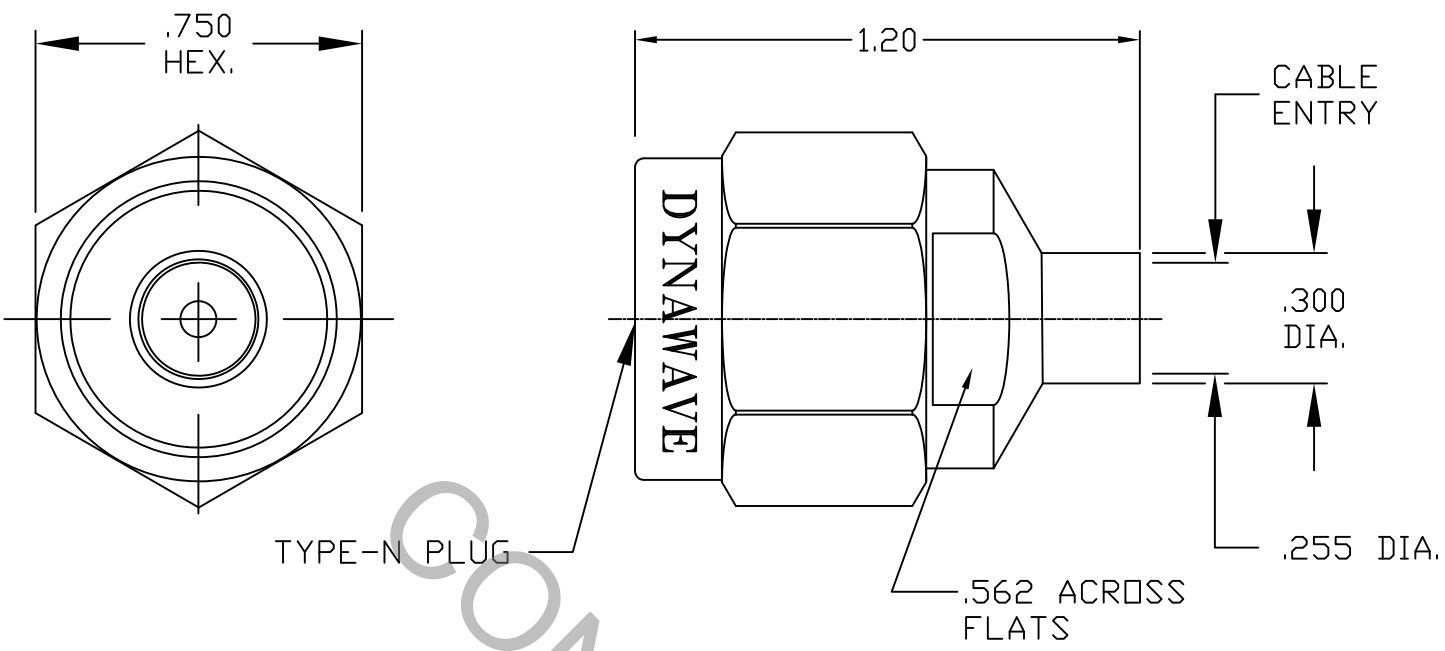
SPECIFICATION CONTROL DRAWING



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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

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	10-1792	8/29/10	TS

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 TS DATE 8/29/10

APPROVED DC DATE 8/29/10

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

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 7400-2502-6242

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	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT & 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, CLASS IIB, GRADE 50 OR 60.

6. FINISH

CONNECTOR BODY	GOLD PER ASTM B 488, TYPE 2, CODE C, CLASS 1.25 (.000050 MIN.) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1, (.000050 MIN.) OVER COPPER PER AMS 2418, (.000010 MIN.).
COUPLING NUT	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
CENTER CONTACT	GOLD PER ASTM B 488, TYPE 2, CODE C, CLASS 2.5 (.000050 MIN.) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1, (.000050 MIN.) OVER COPPER PER AMS 2418, (.000010 MIN.).
INSULATOR, GASKET & RETAINING RING	N/A