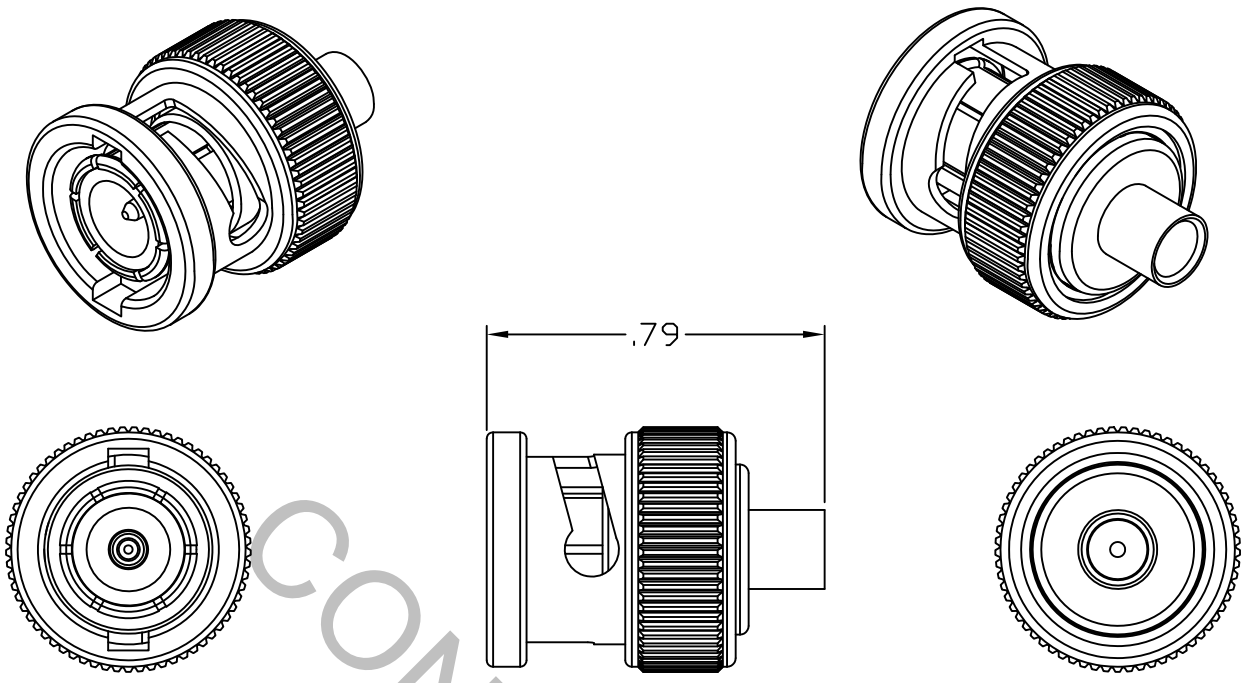
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 301.1 (BNC PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 3.0 GHz
VSWR (MAX.) ❋	1.10 + .05 x FGHz
INSERTION LOSS (dB MAX.) ❋	.10 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	500
RF LEAKAGE (MIN. dB DOWN)	−60 dB − FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	1.5
• OUTER CONTACT (MAX. MILLIOHMS)	0.2

❋ TERMINATED IN A 50 OHM LOAD

RoHS COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	10-1169	2/18/10	DC
AB	17-1350	3/13/17	DC

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 DC DATE 2/18/10

APPROVED DC DATE 2/18/10

TITLE
BNC PLUG, STRAIGHT,
DIRECT SOLDER
ø.141 SEMI-RIGID

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 3000-4120-2700

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MAX.AXIAL FORCE — N/A
- MAX. RADIAL TORQUE — N/A

CENTER CONTACT AXIAL FORCES
- INSERTION (MAX. OUNCES) — N/A
- WITHDRAWAL (MIN. OUNCES) — N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN LBS.) — 2.0

CONNECTOR DURABILITY (MIN. CYCLES) — 100

RECOMMENDED MATING TORQUE — N/A

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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.) (375 VRMS)

5. MATERIAL

BODY, COUPLING NUT & CONTACT	BRASS PER ASTM–B16, TEMPER H02, ALLOY 36000.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
GASKET	SILICONE RUBBER PER ZZ–R–765.

6. FINISH

BODY & COUPLING NUT	NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000200 MIN. THK.) OVER COPPER per AMS–2418 (.000010 MIN. THK.)
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	N/A