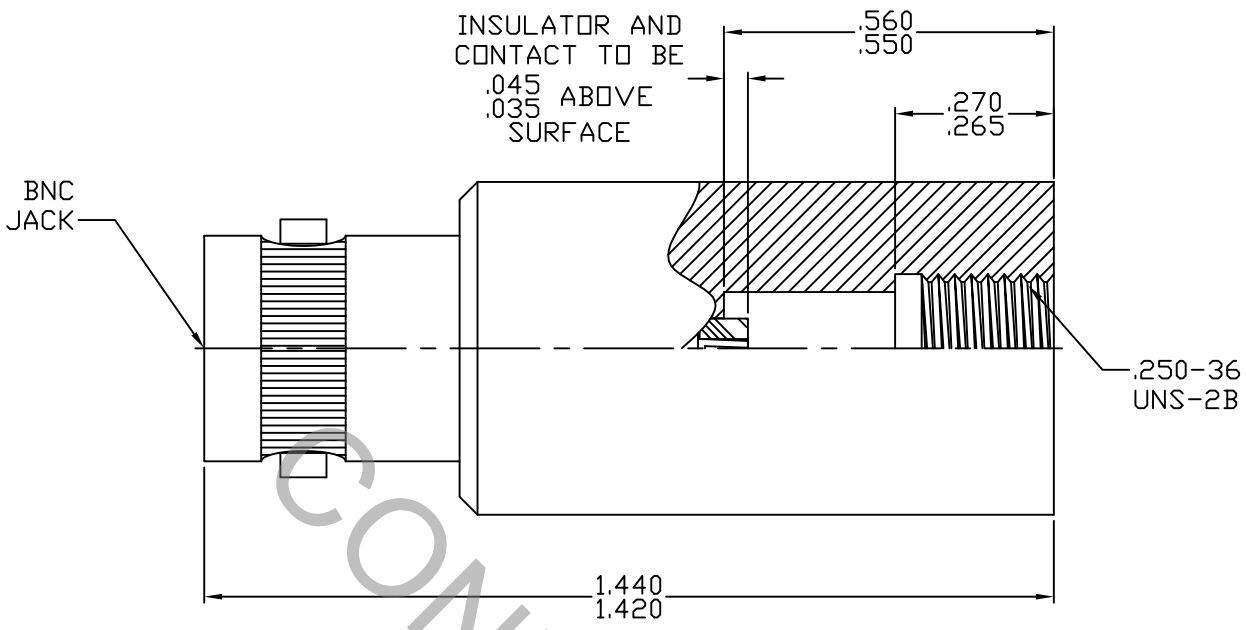
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348 Fig. 301.2 (BNC JACK)

CONNECTOR I.A.W. OMNIYIG 525137 REV.C

2. ELECTRICAL

FREQUENCY RANGE GHz	D.C. TO 4.0 GHz.
VSWR (MAX.) ❋	1.05 + .025 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.045 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	292
RF LEAKAGE (MIN. dB DOWN)	−80 dB − FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65 ° c TO +165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	875
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	8.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	05-1775	8/4/05	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ± .030 .XX ± .010 .XXX ± .005	±1/64	X° ± 1°0' X° X' ± 15'

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL MA. 01835

DRAWN DC DATE 8/4/05

APPROVED DC DATE 8/4/05

TITLE
BNC JACK, THREAD
ON AIR CAVITY,
ACCEPTS .015 DIA. PIN

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 3190-0681-6201

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)	INTERFACE 32.0, REAR 32.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0, REAR 0.5
CONNECTOR ENGAGEMENT/DISENGAGEMENT(MAX. IN LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RRECOMMENDED MATING TORQUE	N/A

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–25° c TO +100° 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.) (219 VRMS)

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5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER AMS–5640, TYPE 303, COND. A
CONTACT	BERYLLIUM COPPER PER QQ–C–530, ALLOY 173, COND. H.T.
INSULATOR	TEFLON PER ASTM D 4894–91.

6. FINISH

CONNECTOR BODY	PASSIVATE PER QQ–P–35A, TYPE I
CONTACT	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 2.5 (.000100 Minimum Thickness) OVER NICKEL per QQ–N–290 (.000050 Minimum Thickness) OVER COPPER per MIL–C–14550 (.000010 Minimum Thickness).
INSULATOR	N/A