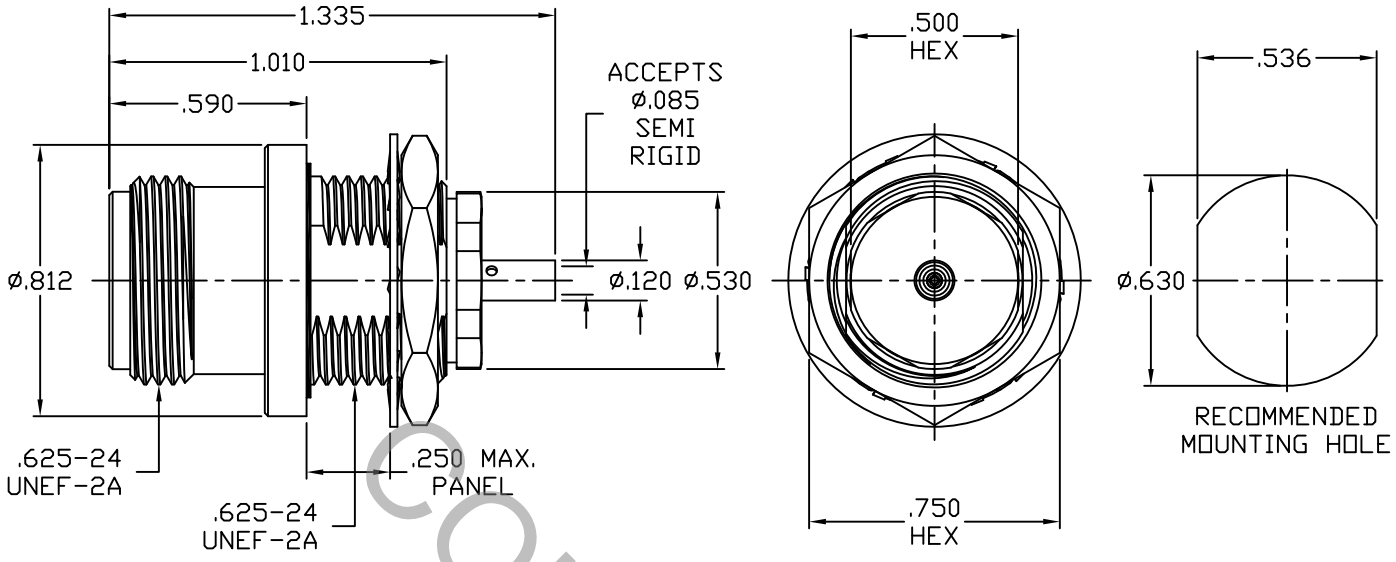
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 304.2 (TYPE "N", JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.05 + .010 x FGHz.
INSERTION LOSS (dB MAX.)	.06 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	750
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)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	14-2216	9/26/14	TS
AB	14-2501	11/26/14	TS

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 TS DATE 9/26/14

APPROVED DC DATE 9/26/14

TITLE TYPE "N" JACK
BULKHEAD FRONT MOUNT,
SOLDER/CLAMP TO
ø.085 SEMI-RIGID CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 7510-8541-2700

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MAX. AXIAL FORCE — 4.5 LBS.
- MAX. RADIAL TORQUE — N/A

CENTER CONTACT AXIAL FORCES
- INSERTION (MAX. OUNCES) — 32.0
- WITHDRAWAL (MIN. OUNCES) — 1.0

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

CONNECTOR DURABILITY (MIN. CYCLES) — 500

RECOMMENDED MATING TORQUE — N/A

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

FRONT & REAR BODY AND HEX NUT	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.
LOCKWASHER	PHOSPHOR BRONZE
GASKET	SILICONE PER ZZ–R–765, CLASS IIB, GRADE 50 OR 60.

6. FINISH

FRONT BODY AND HEX NUT & LOCKWASHER	NICKEL PER SAE AMS QQ–N–290, CLASS 1 (.000200 MIN. THK.).
REAR 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 (.000150 MIN.) OVER COPPER PER AMS 2418 (.000010 MIN.)
CENTER CONTACT	GOLD PER ASTM B 488, TYPE 2, CODE C, CLASS 1.27 (.000050 MIN.) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1 (.000050 MIN.) OVER COPPER PER AMS 2418 (.000010 MIN.)
GASKET AND INSULATOR	N/A