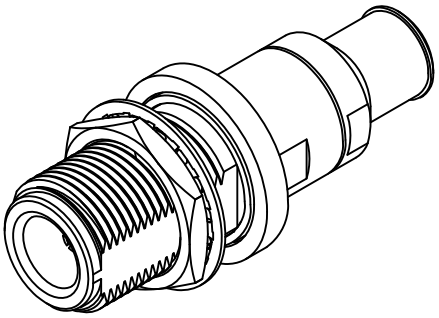
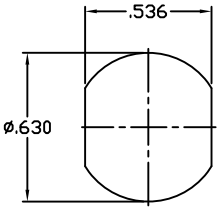
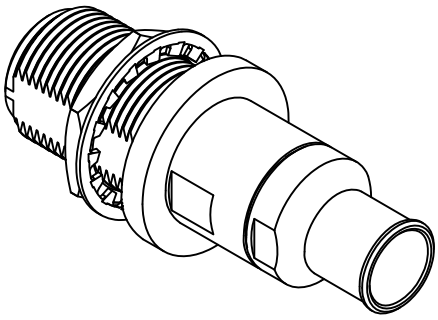
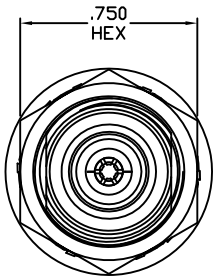
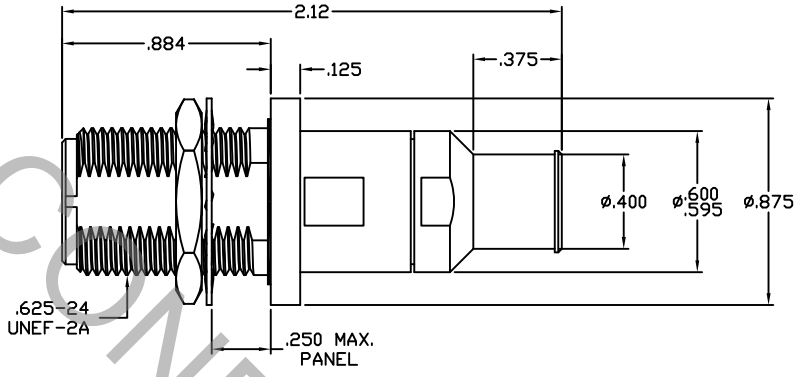
SPECIFICATION CONTROL DRAWING

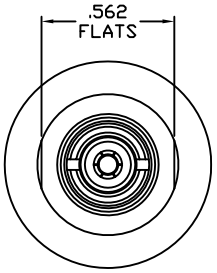












CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS MIL-STD-348 Fig. 304.2 (N JACK).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX.) ❋	1.06 + .006 x FGHz
INSERTION LOSS (dB MAX.) ❋	.05 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	500
RF LEAKAGE (MIN. dB DOWN)	100 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)	1.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	13-1507	4/9/13	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave CABLE INCORPORATED
HAVERHILL, MA 01835

DRAWN RMS DATE 4/8/13

APPROVED DC DATE 4/9/13

TITLE N JACK, BULKHEAD, SOLDER CLAMP, PLUG-IN CONTACT, DF118W LOW LOSS

CODE IDENT. 6DZL5

SHEET 1 OF 2

DWG. NO. 7510-118W-6240

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)	N/A
● WITHDRAWAL (MIN. OUNCES)	N/A
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MATING TORQUE	N/A
RECOMMENDED MOUNTING TORQUE	22 – 25 IN. LBS.

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)

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5. MATERIAL

BODY, BUSHINGS, CLAMP NUT, HEX NUT & PRESS SLEEVE	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
LOCKWASHER	400 SERIES STAINLESS STEEL.
CONTACTS	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
FRONT INSULATOR	TEFLON PER ASTM D–1710–02, TYPE 1, GRADE 1, CLASS B.
REAR INSULATOR	CROSS LINKED POLYETHYLENE (400°).
GASKET & O–RING	SILICONE RUBBER PER ZZ–R–765
SOLDER SLEEVE	BRASS PER ASTM–B16, TEMPER H02, ALLOY C36000.

6. FINISH

BODY, BUSHINGS, CLAMP NUT, HEX NUT, PRESS SLEEVE & LOCKWASHER	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4
SOLDER SLEEVE	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 (.000150 MIN. THK.) OVER COPPER per AMS–2418 (.000010 MIN. THK.)
CONTACTS	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 0.75 (.000030 MIN. THK.) OVER NICKEL per SAE–AMS–QQ–N–290, CLASS 1 (.000050 MIN. THK.) OVER COPPER per AMS–2418 (.000010 MIN. THK.)
INSULATORS, GASKET & O–RING	N/A