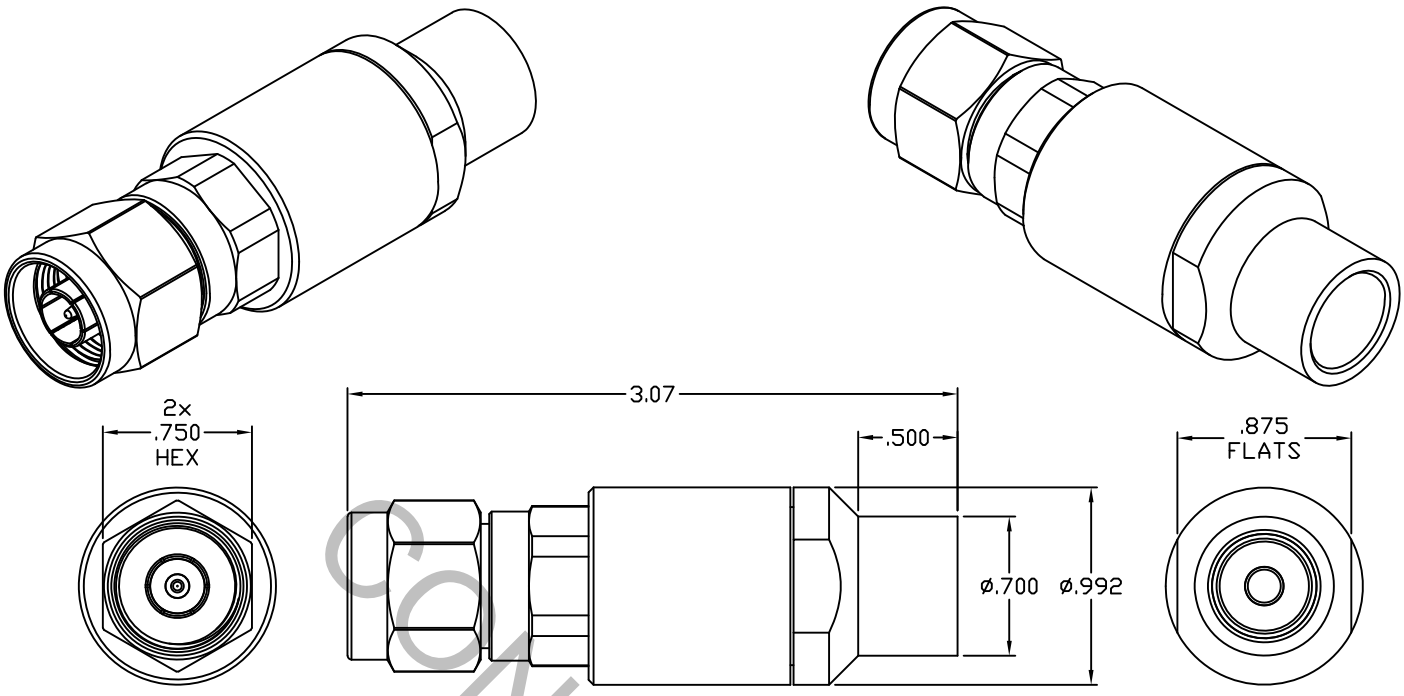
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS MIL-STD-348 Fig. 304.1 (N PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 6.0 GHz
VSWR (MAX.) ❋	1.07 + .006 x FGHz
INSERTION LOSS (dB MAX.) ❋	.08 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	667
RF LEAKAGE (MIN. dB DOWN)	100 dB – FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	–65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	2,000 @ SEA LEVEL
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

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REV.	DCN NO.	DATE	APP.
AA	14-1636	5/21/14	DC
AB	18-2401	12/18/18	TS

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 5/21/14

APPROVED DC DATE 5/21/14

TITLE
N PLUG
SOLDER CLAMP TO
DF508 LOW LOSS CABLE

CODE IDENT. 6DZL5

SHEET 1 OF 2

DWG. NO. 7400-508H-2100

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	20 – 23 IN. LBS.
CONNECTOR/CABLE PULL FORCES	60 LBS. MIN.

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.) (500 VRMS)

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5. MATERIAL

BODY, SOLDER SLEEVE, CONTACT, CLAMP NUT, COUPLING NUT & BUSHING	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.
INTERFACE BODY & 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 & O–RING	SILICONE RUBBER PER ZZ–R–765

6. FINISH

BODY, CLAMP NUT & COUPLING NUT	TRI–METAL ALLOY COMPRISED OF 55%–60% COPPER, 25%–28% TIN, 14%–18% ZINC. PLATING THICKNESS: .0001–.0002 THK.
CONTACT & INTERFACE BODY	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.25 (.000050–.000075 THK.) OVER COPPER PER AMS 2418, (.000040 MIN. THK.).
BUSHING & SOLDER SLEEVE	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 1 (.000050 THK.) OVER COPPER PER AMS 2418, CLASS 4 (.000100 MIN. THK.).
INSULATOR, GASKET & RETAINING RING	N/A