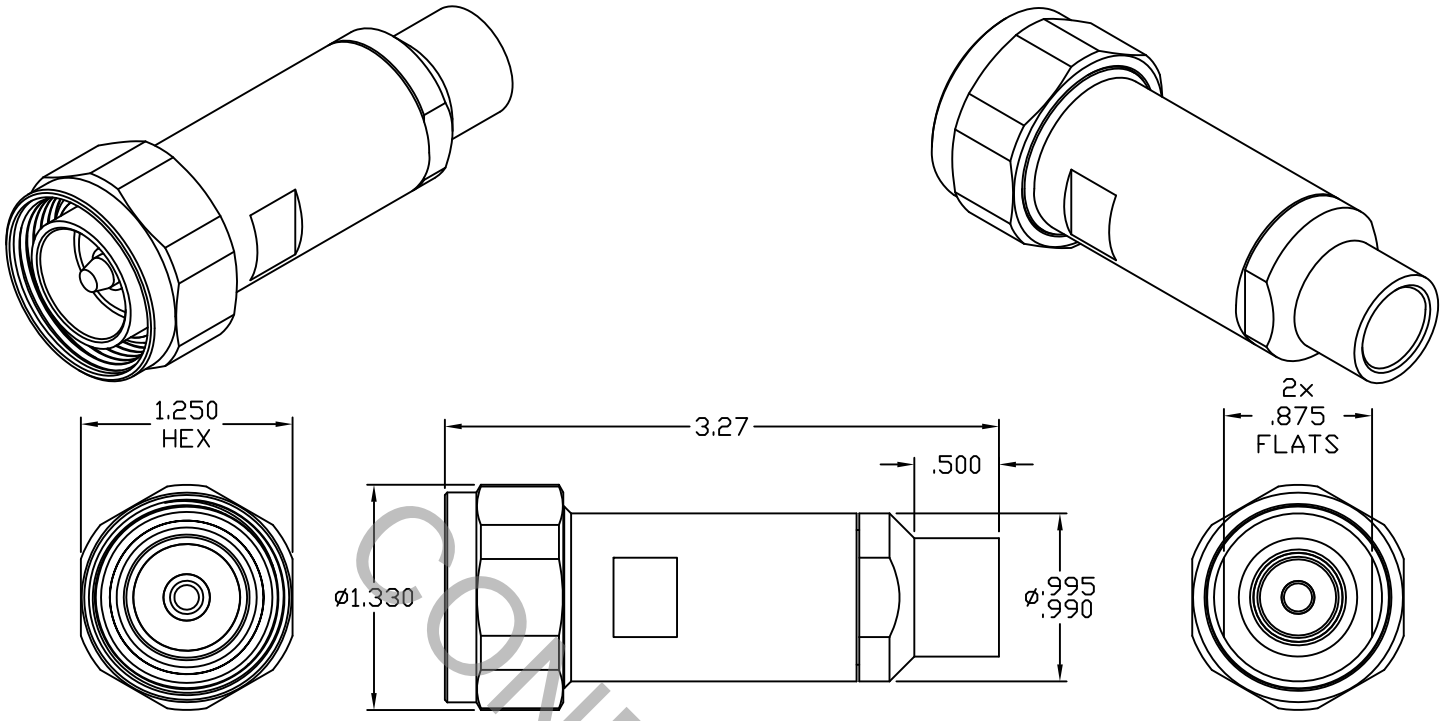
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS Per IEC 169-4 (SOLID OUTER CONTACT).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 6.0 GHz
VSWR (MAX.) ❋	1.10 + .010 x FGHz
INSERTION LOSS (dB MAX.) ❋	.15 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	1,667
RF LEAKAGE (MIN. dB DOWN)	−125 dB − FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	5,000 @ SEA LEVEL
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
IMD (IM-PRODUCT 3 ORDER, 2x46dBm/2x40w MAX)	164 dBc MIN.
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	2.0
• 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	13-2007	7/19/13	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 7/19/13

APPROVED DC DATE 7/19/13

TITLE
7/16 PLUG,
STRAIGHT, SOLDER CLAMP,
DF508 LOW LOSS

CODE IDENT. 6DZL5

SHEET 1 OF 2

DWG. NO. 4800-508H-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.) — N/A
CONNECTOR DURABILITY (MIN. CYCLES) — 500
RECOMMENDED MATING TORQUE — 60 – 80 IN. LBS.
CONNECTOR/CABLE PULL FORCES — 60 LBS. MIN.

4. ENVIRONMENTAL

THERMAL SHOCK	MIL–STD–202, METHOD 107, COND. B (–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.) (1,250 VRMS)

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5. MATERIAL

BODIES, COUPLING NUT, SOLDER SLEEVE, BUSHING & CLAMP NUT	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.
CONTACTS & 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.
O–RINGS	SILICONE RUBBER PER ZZ–R–765.

6. FINISH

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