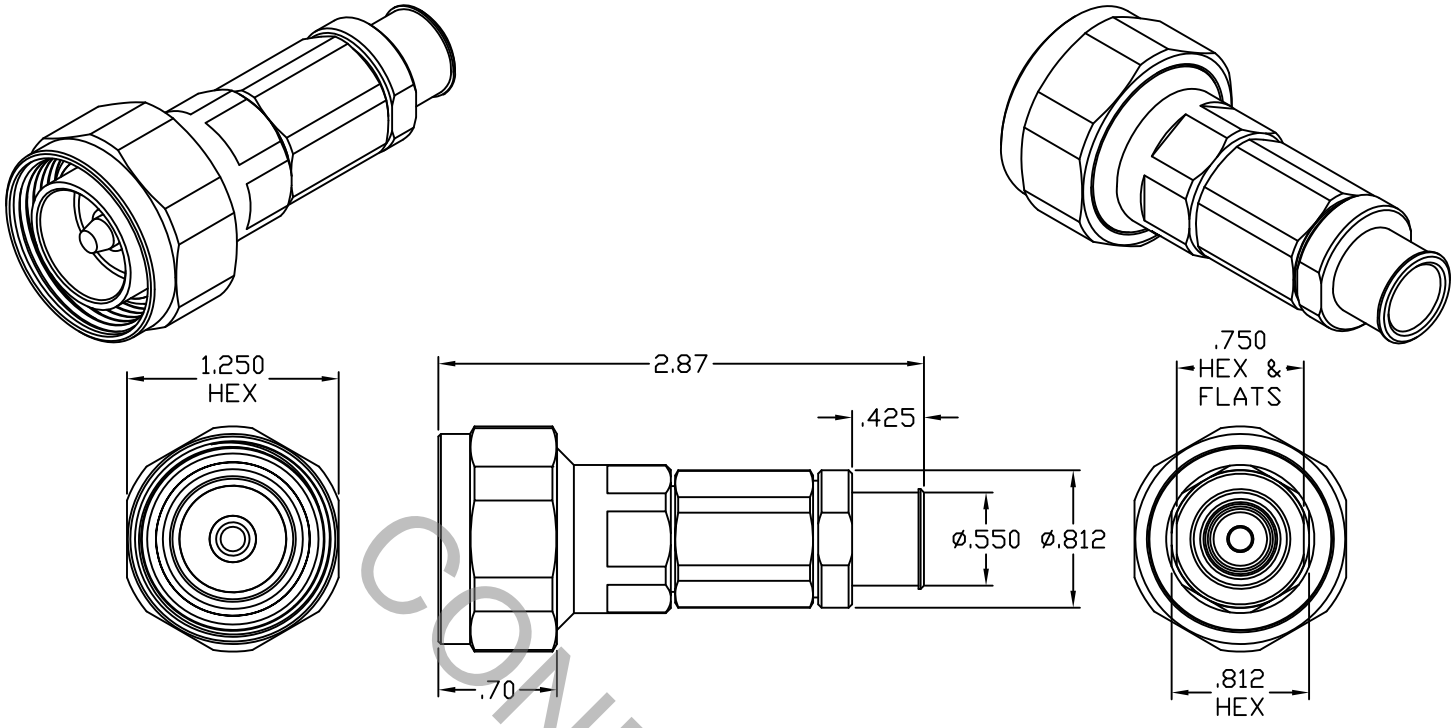
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

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

REV.	DCN NO.	DATE	APP.
AA	13-1952	7/10/13	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	DC	DATE	7/10/13
APPROVED	DC	DATE	7/10/13

TITLE
7/16 DIN PLUG,
STRAIGHT, SOLDER CLAMP,
DF512 LOW LOSS

CODE IDENT.	SHEET 1 OF 2	DWG. NO.
6DZL5		4800-512H-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)

CONFIDENTIAL

5. MATERIAL

BODIES, COUPLING NUT, SOLDER SLEEVE, BUSHING & CLAMP NUT	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.
CENTER CONTACTS & RETAINING RING	BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATORS	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, BUSHING & CLAMP NUT	TRI–METAL ALLOY COMPRISED OF: 55%–60% COPPER, 25%–28% TIN & 14%–18% ZINC. PLATING THICKNESS .0001–.0002 THK.
CENTER CONTACTS & SOLDER SLEEVE	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER COPPER PER AMS 2418, (.000040 MIN. THK.).
INSULATORS, O–RINGS & RETAINING RING	N/A