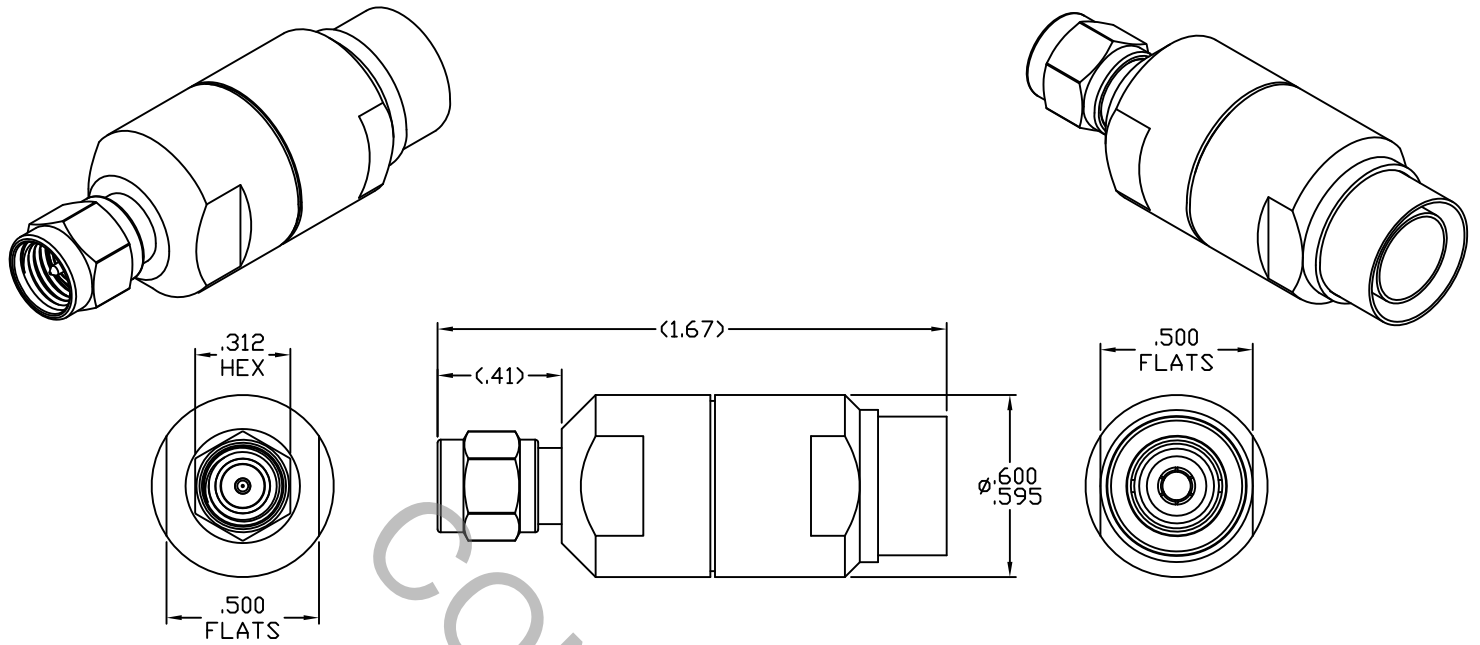


SPECIFICATION CONTROL DRAWING



AVAILABLE ON DYNAWAVE CABLE ASSEMBLIES ONLY

1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.1 (SMA PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz
VSWR (MAX) *	_____	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX) *	_____	.05 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	400
RF LEAKAGE (MIN. dB DOWN)	_____	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°c TO + 148°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	1,250
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	5,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

* TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			CABLE INCORPORATED HAVERHILL, MA 01835
AA	12-1942	10/12/12	DC	DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030		X ° ± 1° 0'	TITLE SMA PLUG, SOLDER CLAMP, PLUG-IN CONTACT LIGHT ARMOR, DF218
				.XX ± .010	± 1/64	X ° X' ± 15'	
				.XXX ± .005			DWG. NO. 9800-218R-6240
				DRAWN DC	DATE 10/12/12		
				APPROVED DC	DATE 10/12/12		
				CODE IDENT.			
				6DZL5	SHEET 1 OF 2		

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 _____ 7 - 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 107, COND. C (-65° c TO +148° 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.) (300 VRMS)

5. MATERIAL

BODY, BUSHINGS, COUPLING NUT & CLAMP NUT _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
 CONTACT & RETAINING RING _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, 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° F.
 GASKET & O-RING _____ SILICONE RUBBER PER ZZ-R-765.
 SOLDER SLEEVE _____ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.

6. FINISH

BODY, BUSHINGS, COUPLING NUT & CLAMP NUT _____ 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, RETAINING RING, GASKET & O-RING _____ N/A