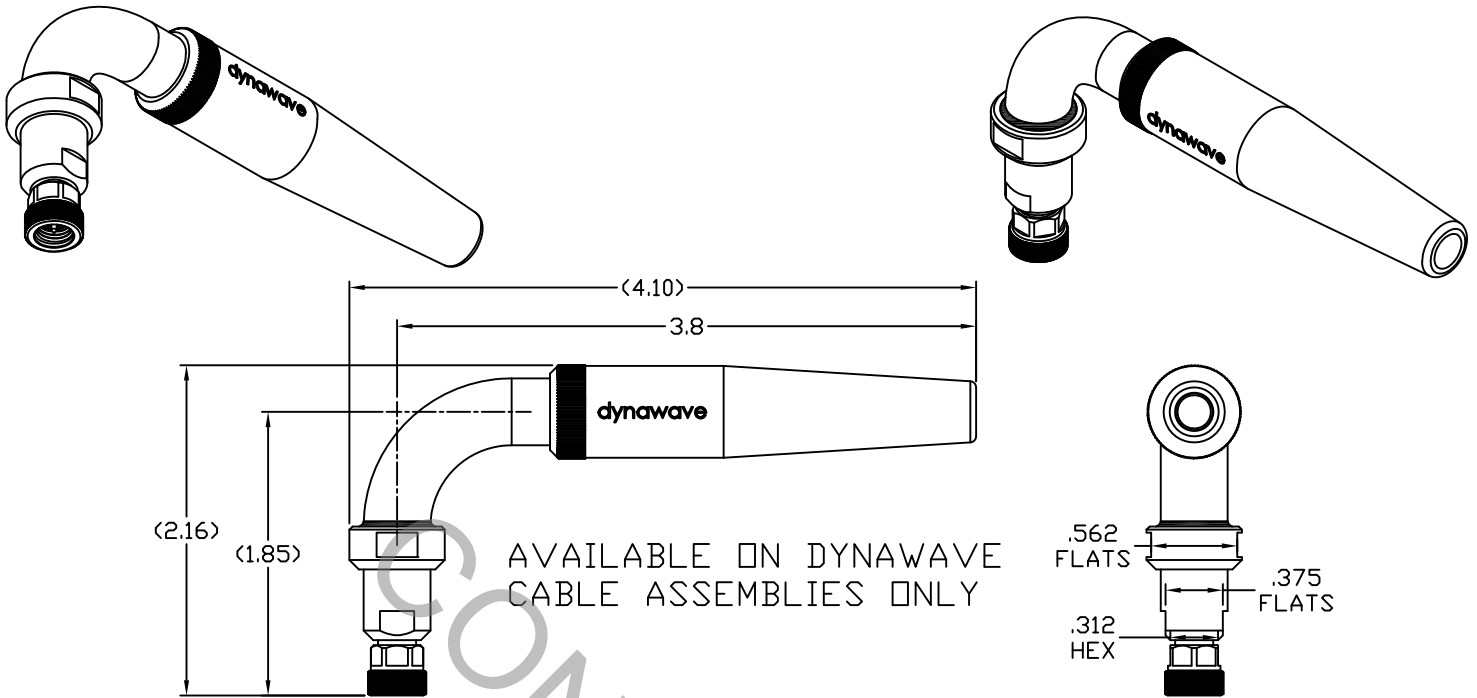


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 319.1 (SMA PLUG)

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz
VSWR (MAX.) *	_____	1.02 + .004 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.05 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	333
RF LEAKAGE (MIN. dB DOWN)	_____	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-60°C TO + 165°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	1,000
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

This Document contains proprietary and confidential information.

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			INCORPORATED HAVERHILL, MA 01835	
AA	15-1275	2/24/15	DC	DECIMALS	FRACTIONAL	ANGULAR		
				.X ± .030		X° ± 1° 0'	TITLE SMA PLUG, RIGHT ANGLE, SOLDER CLAMP, 7-00185 CABLE	
				.XX ± .010	± 1/64	X', X' ± 15'		
				.XXX ± .005				
				DRAWN	DC	DATE	2/24/15	DWG. NO. 9801-7185-6299
				APPROVED	DC	DATE	2/24/15	
				CODE IDENT.		SHEET	1 OF 2	
				2J899				

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.
 RECOMMENDED MOUNTING TORQUE _____ N/A

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 107, COND. C (-66° c TO + 166° 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.) (250 VRMS)

5. MATERIAL

BODY, COUPLING NUT, CLAMP NUT & _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
 PRESS SLEEVES
 CONTACT, PRESS RING & 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.
 SOLDER SLEEVE _____ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.
 MOLDED BOOT _____ PVC, 81 DUROMETER (BLACK)

6. FINISH

BODY, CLAMP NUT & COUPLING NUT _____ ELECTRO POLISH PER ASTM B912.
 PRESS SLEEVES _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4
 PRESS RING _____ NICKEL PER SAE-AMS-QQ-N-290, CLASS 1 (.000200 MIN. THK.)
 OVER COPPER PER AMS-2418 (.000010 MIN. OR AS SPECIFIED)
 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.)
 CONTACT _____ 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 (.000050 MIN. THK.) OVER COPPER PER AMS-2418
 (.000010 MIN. THK.)
 INSULATOR, RETAINING RING & MOLDED BOOT _____ N/A