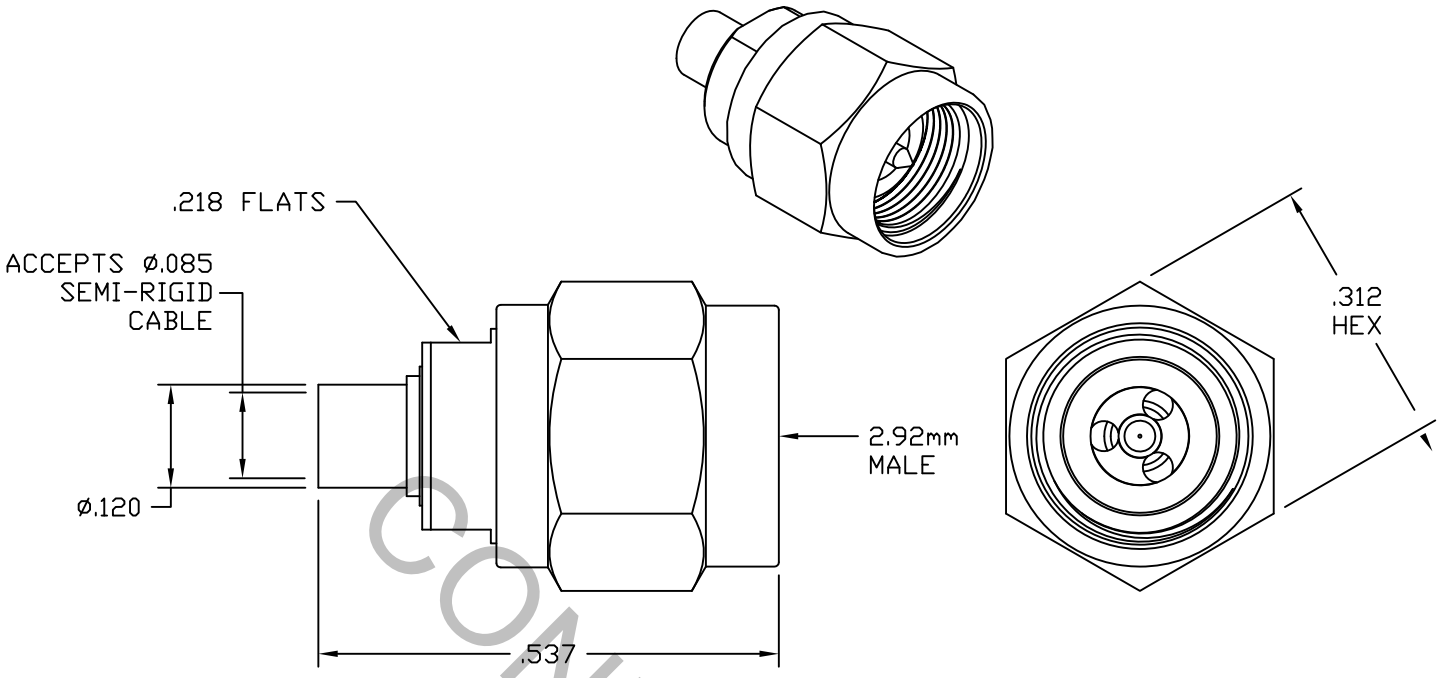
SPECIFICATION CONTROL DRAWING



1. MATING

INTERFACE DIMENSIONS PER MIL-STD-348, FIGURE 323.1 (SMK PLUG)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz
VSWR (MAX.) ❋	1.05 + .01 x FGHz
INSERTION LOSS (dB MAX.)	.03 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	100 dB – FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65° c TO + 125° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
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.
AA	18-1272	3/5/18	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	± 1/64	X° ±1° 0' X° X' ± 15'

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN: MS DATE: 3/5/18

APP.: DC DATE: 3/5/18

TITLE
2.9mm, MALE, STRAIGHT
DIRECT SOLDER TO
ø.085 SEMI-RIGID CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 9400-8525-6210

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)	INTERFACE 48.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT(MAX. IN. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RRECOMMENDED MATING TORQUE	7 – 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–25° c TO +100° 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.) (190 VRMS)

5. MATERIAL

BODY, SLEEVE & COUPLING 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.
FILLER INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
INSULATOR BEAD	CROSS LINKED POLYSTYRENE. MEETS TML ≤1.0% AND CRCM ≤0.10%.
GASKET	SILICONE RUBBER PER A–A–59588. MEETS TML ≤1.0% AND CRCM ≤0.10%.

6. FINISH

BODY & COUPLING NUT	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
CONTACT	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 0.75 (.000030–.000055 THK.) OVER NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000050–.000075 THK.) OVER COPPER PER AMS–2418, (.000010 MIN. THK.).
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 NICKEL (WOODS OR WATTS) (.000010 MIN. THK.)
INSULATORS, GASKET & RETAINING RING	N/A