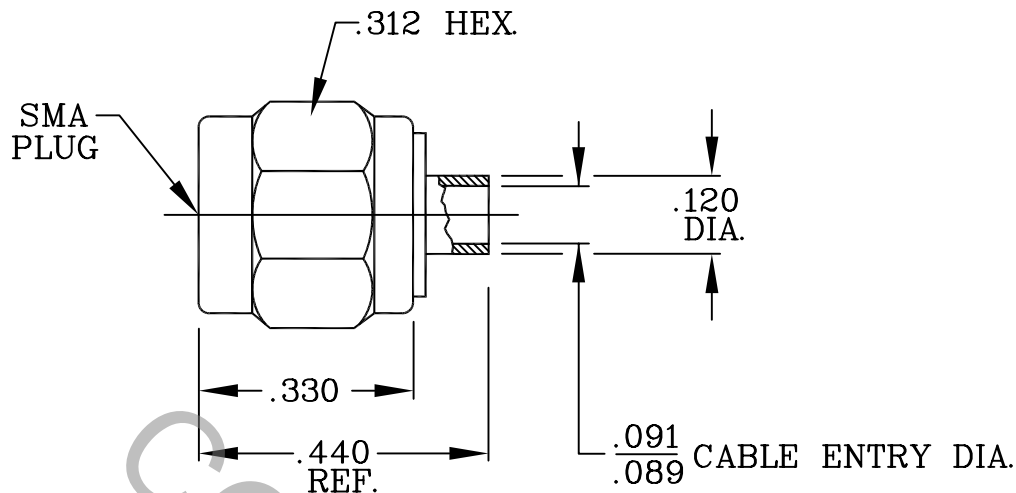


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, (Fig. 310.1)
AND DYNAWAVE SPECIFICATION MD-98.

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz.
VSWR (MAX) *	_____	1.05 + .005 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 +165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	750
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	5,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 INCORPORATED GEORGETOWN MA 01833
				DECIMALS	FRACTIONAL	ANGULAR	
—	1100	7/94	G.L.	.X + .030 .XX ± .010 .XXX ± .005	1/64	X ° ± 1' 0" X ° X ± 15'	TITLE SMA, PLUG WITH CENTER CONTACT TO .085 S.R. CABLE DIRECT SOLDER ATTACHMENT
A	1191	2/96	T.S.	SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$.			
				DRAWN	G.L.	DATE 7/94	DWG. NO. 9800-8520-6266
				APPROVED		DATE 7/94	
				CODE IDENT.		SHEET 1 OF 2	
				2J899			

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 6.0
- MIN. RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) _____ N/A
- WITHDRAWAL (MIN. OUNCES) _____ N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) _____ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65 ° c TO + 200 ° 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.) (375 VRMS)

5. MATERIAL

BODY AND COUPLING NUT _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.

RETAINING RING _____ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY No. UNS C17300, TEMPER TD04.

INSULATOR _____ TEFLON PER ASTM D 4894-91.

GASKET _____ SILICONE RUBBER PER ZZ-R-765 CLASS IIB, GRADE 50 OR 60.

6. FINISH

BODY _____ GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1 (.000050 MINIMUM THICKNESS) OVER NICKEL PER QQ-N-290, CLASS 1 (.000150 MINIMUM THICKNESS) OVER COPPER PER MIL-C-14550 (.000010 MINIMUM THICKNESS).

COUPLING NUT _____ PASSIVATE PER QQ-P-35A, TYPE I.

CONTACT _____ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 2 (.000100 MINIMUM THICKNESS) OVER NICKEL PER QQ-N-290, CLASS 1 (.000100 MINIMUM THICKNESS) OVER COPPER PER MIL-C-14550 (.000010 MINIMUM THICKNESS).

INSULATOR AND GASKET _____ N/A

DRAWING No.

9800-8520-6266

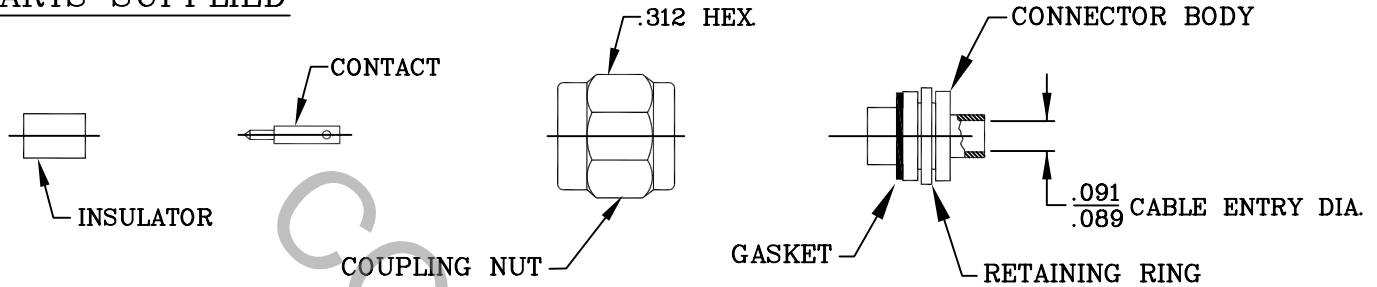
REV.	DCN NUMBER	DATE	APP.
AA	04-1911	8/3/04	DC

CABLE/CONNECTOR ASSEMBLY INSTRUCTIONS

CONNECTOR
TYPE: DIRECT SOLDER ATTACHMENT

CABLE
TYPE: STD. .085 SEMI-RIGID

PARTS SUPPLIED

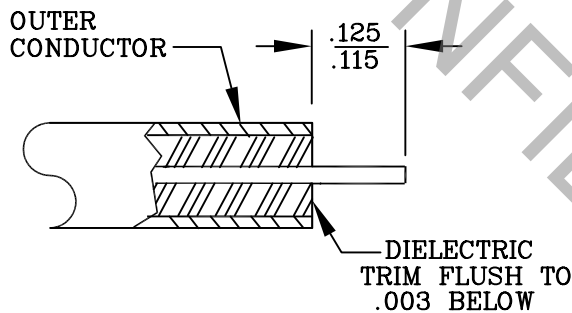


Approved

DC

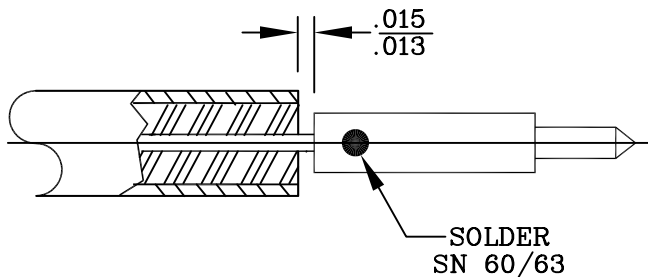
Drawn

SS



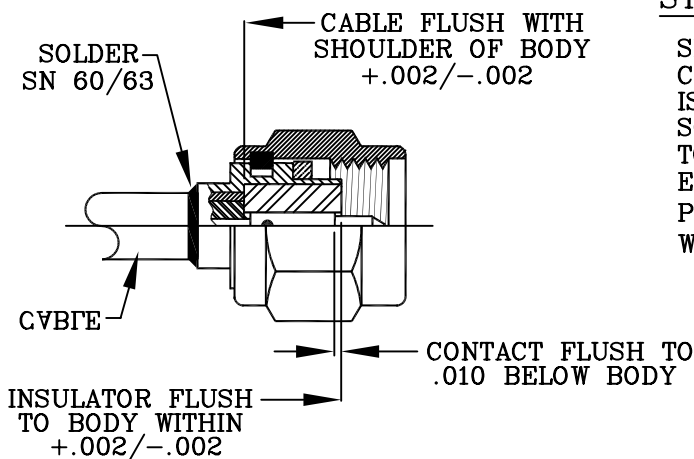
STEP 1: CABLE PREPARATION

TRIM OUTER CONDUCTOR AND DIELECTRIC TO DIMENSIONS SHOWN EXPOSING INNER CONDUCTOR. DO NOT EXCESSIVELY NICK CENTER CONDUCTOR.



STEP 2: CONTACT ATTACHMENT

SOLDER CONTACT TO CENTER CONDUCTOR THROUGH HOLE IN CONTACT. LEAVE GAP AS SHOWN. CLEAN.



STEP 2: CONTACT ATTACHMENT

SLIDE PREPARED CABLE INTO CONNECTOR BODY UNTIL CABLE IS FLUSH WITH SHOULDER IN BODY. SOLDER CABLE OUTER CONDUCTOR TO THE CONNECTOR BODY. TRIM EXCESS DIELECTRIC MATERIAL. CLEAN. PRESS IN INSULATOR FLUSH TO BODY WITHIN $+.002/- .002$.

dynamave
INCORPORATED

DWG. No.

9800-8520-6266