MECHANICAL CHARACTERISTICS

INTERFACE	MIL-STD-348, FIGURE 310-1
IN ACCORDANCE WITH THE INTENT OF SLANT SHEET	MIL-PRF-39012/55 REF.
RECOMMENDED MATING TORQUE	9 IN-LBS. NOM.
COUPLING PROOF TORQUE	15 IN-LBS. MIN.
COUPLING NUT RETENTION	60 LBS. MIN.
FORCE TO ENGAGE	2 IN-LBS. MAX.
FORCE TO DISENGAGE	2 IN-LBS. MIN.
DURABILITY	500 CYCLES MIN.
AXIAL CONTACT RETENTION (FROM INTERFACE)	6 LBS. MIN.
AXIAL CONTACT RETENTION (FROM CABLE)	6 LBS. MIN.
CENTER CONTACT INSERTION (FROM CABLE)	3 LBS. MAX.
CENTER CONTACT WITHDRAWAL (FROM CABLE)	1 OZ. MIN.
CABLE RETENTION	30 LBS. MIN.
MASS	13.83 GRAMS NOM.

ELECTRICAL CHARACTERISTICS

IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	18 GHz
VSWR DC - 18 GHz	1.16:1 MAX.
INSERTION LOSS	0.03 $\sqrt{F}$ (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1350 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB MIN.
CORONA	340 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	900 Vrms MIN.
CONTACT RESISTANCE (INNER)	3.0 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	2.0 MilliOhms MAX.

ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMPERATURE	-62°C TO 165°C
VIBRATION	MIL-STD-202, METHOD 204, CONDITION D
MECHANICAL SHOCK	MIL-STD-202, METHOD 213, CONDITION I
THERMAL SHOCK	MIL-STD-202, METHOD 107, CONDITION B
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106, CONDITION (NO VIBRATION)

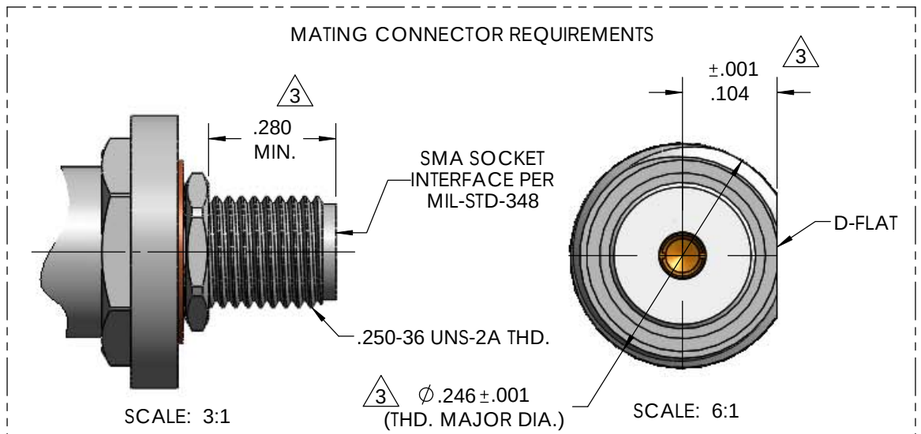
MATERIALS AND FINISH

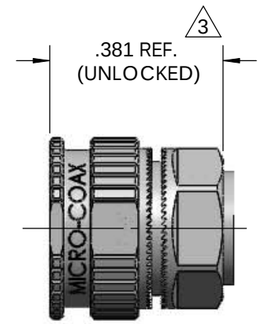
COUPLING NUT, LOCKING SLEEVE, CLAMP NUT, BODY	STEEL, CORROSION RESISTANT, ASTM-A-582, UNS NO. S30300, PASSIVATED PER ASTM-A-967
CONTACT	BERYLLIUM COPPER, ASTM-B-196, GOLD PLATED PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290
SNAP RING	BERYLLIUM COPPER, PER ASTM-B-197
SPRING	316BRT STAINLESS STEEL, PASSIVATED PER ASTM-B-967
INSULATOR, DIELECTRIC BEAD	TFE FLUOROCARBON PER ASTM-D-1710
GASKET	SILICONE RUBBER PER ZZ-R-765
CONTACT RING	BRASS, PER ASTM-B-16, GOLD PLATER PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290

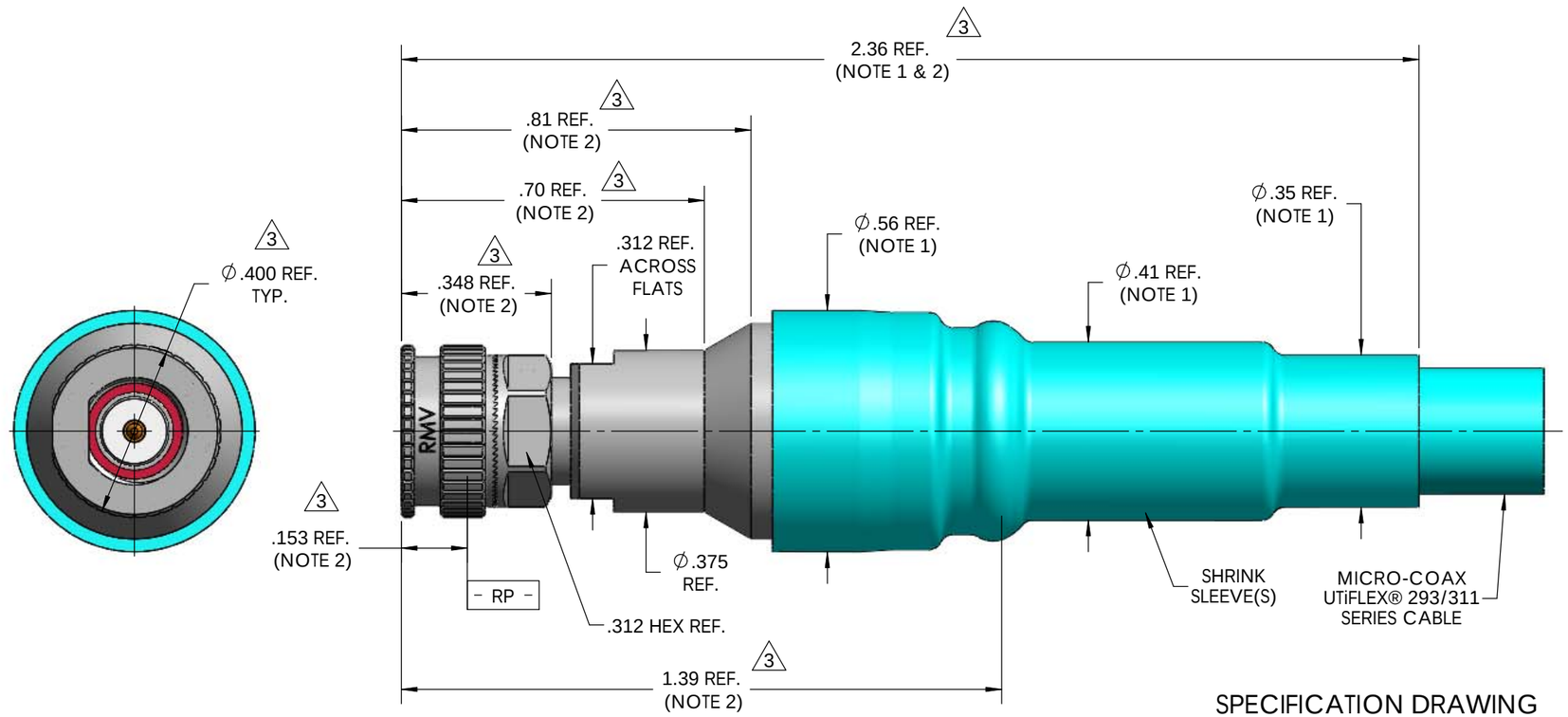
APPLICATION

CABLE(S)	293/311 SERIES CABLE
INSTALLATION	PER CONFIGURATOR

REV	DESCRIPTION	DATE	BY	APPVD	CHKD
1	PRELIMINARY RELEASE	5/29/2012	PLM	RS	CCF
2	ADDED RED STRIPE SPECIFICATION ON COUPLING NUT	9/24/2012	PLM	RS	RS
3	REVISED SMA BHJ BODY DIMENSIONAL REQUIREMENTS; REVISED LOCKING SLEEVE; REMOVED RED STRIPE	6/4/2013	PLM	RS	RS







NOTE:

1. MARKER LOCATION ON THIS DRAWING IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE.
2. DIMENSION VALUE BASED ON SLEEVE IN LOCKED POSITION.

SPECIFICATION DRAWING

	INITIALS	DATE
DWN.	PLM	05/24/12
CHKD.	CCF	05/25/12
APPVD.		

MICRO-COAX®
Leading the way in transmission line solutions.

TOLERANCES UNLESS OTHEWISE SPECIFIED	
.XX	± .02
.XXX	± .005
.XXXX	± .0010
ANGLES	±2°

TITLE: SMA PLUG, SELF-LOCKING, REMOVABLE SLEEVE, 293/311 SERIES

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989.	FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV
	64639	B	3:1	1 OF 1	SD905199	3