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	13.84 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, BODY, CLAMP NUT	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

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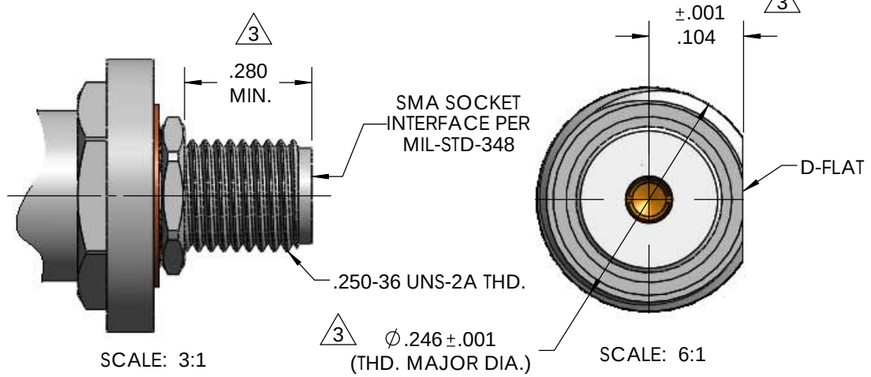
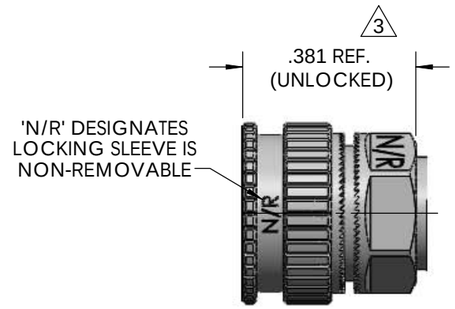
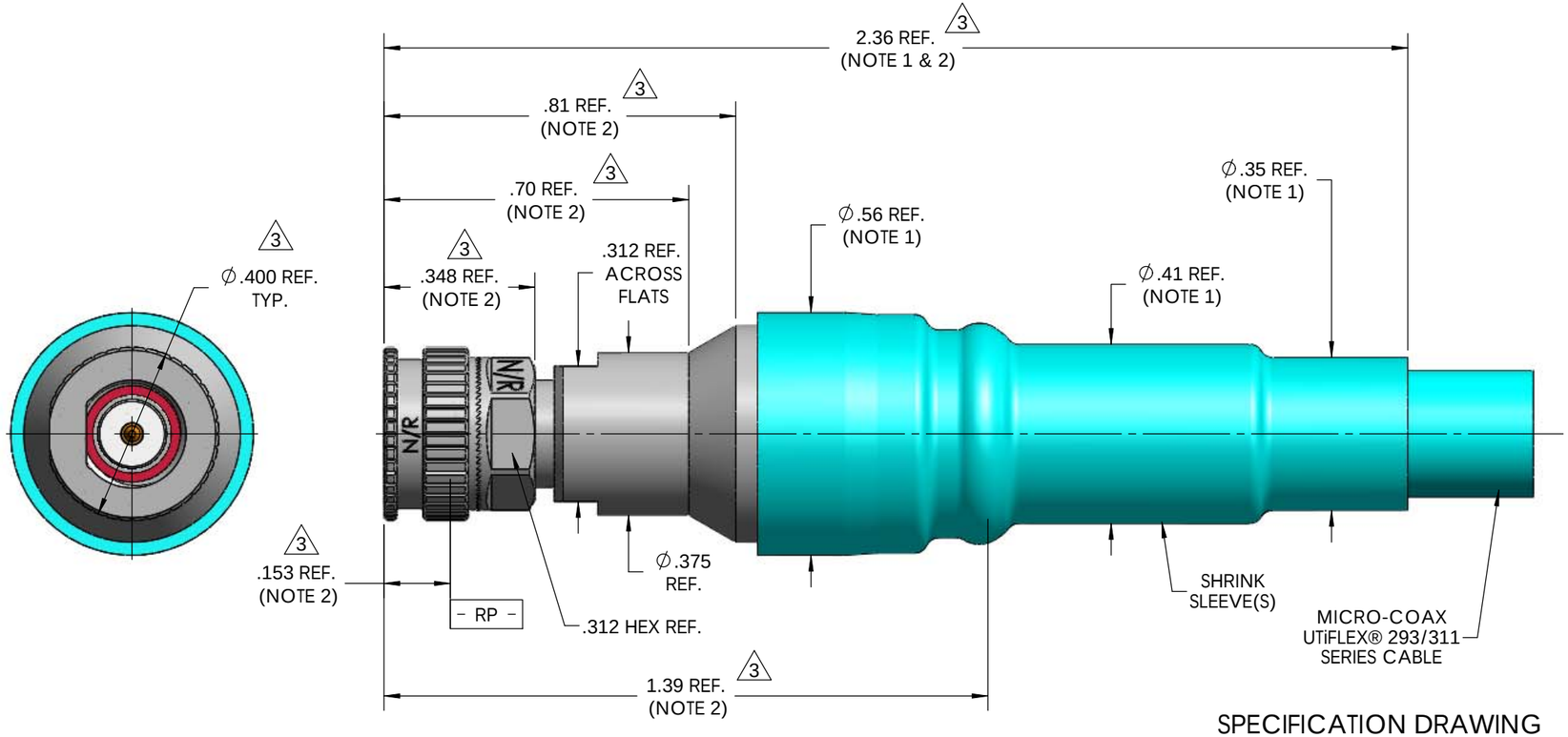
REV	DESCRIPTION	DATE	BY	APPVD	CHKD
1	PRELIMINARY RELEASE	5/29/2012	PLM	RS	CCF
2	ADDED RED STRIPE SPECIFICATION ON COUPLING NUT	9/24/2012	PLM	RS	RS
3	REVISED SMA BHJ BODY DIMENSIONAL REQUIREMENTS; REVISED LOCKING SLEEVE; REMOVED RED STRIPE	6/4/2013	PLM	RS	RS

MATING CONNECTOR REQUIREMENTS



BODY MATERIAL: STEEL OR BeCu





SPECIFICATION DRAWING

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.

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

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

TITLE: SMA PLUG, SELF-LOCKING, NON-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	SD905203	3