

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.
CABLE RETENTION	20 LBS.
MASS	10.82 GRAMS NOM.

ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	18 GHz
VSWR DC - 12.4 GHz	1.12:1 MAX.
12.4 - 18 GHz	1.16:1 MAX.
INSERTION LOSS	0.04 \sqrt{F} (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1500 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB MIN.
CORONA	375 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	1000 Vrms MIN.
CONTACT RESISTANCE (INNER)	4.0 Milliohms MAX.
CONTACT RESISTANCE (OUTER)	2.0 Milliohms MAX.

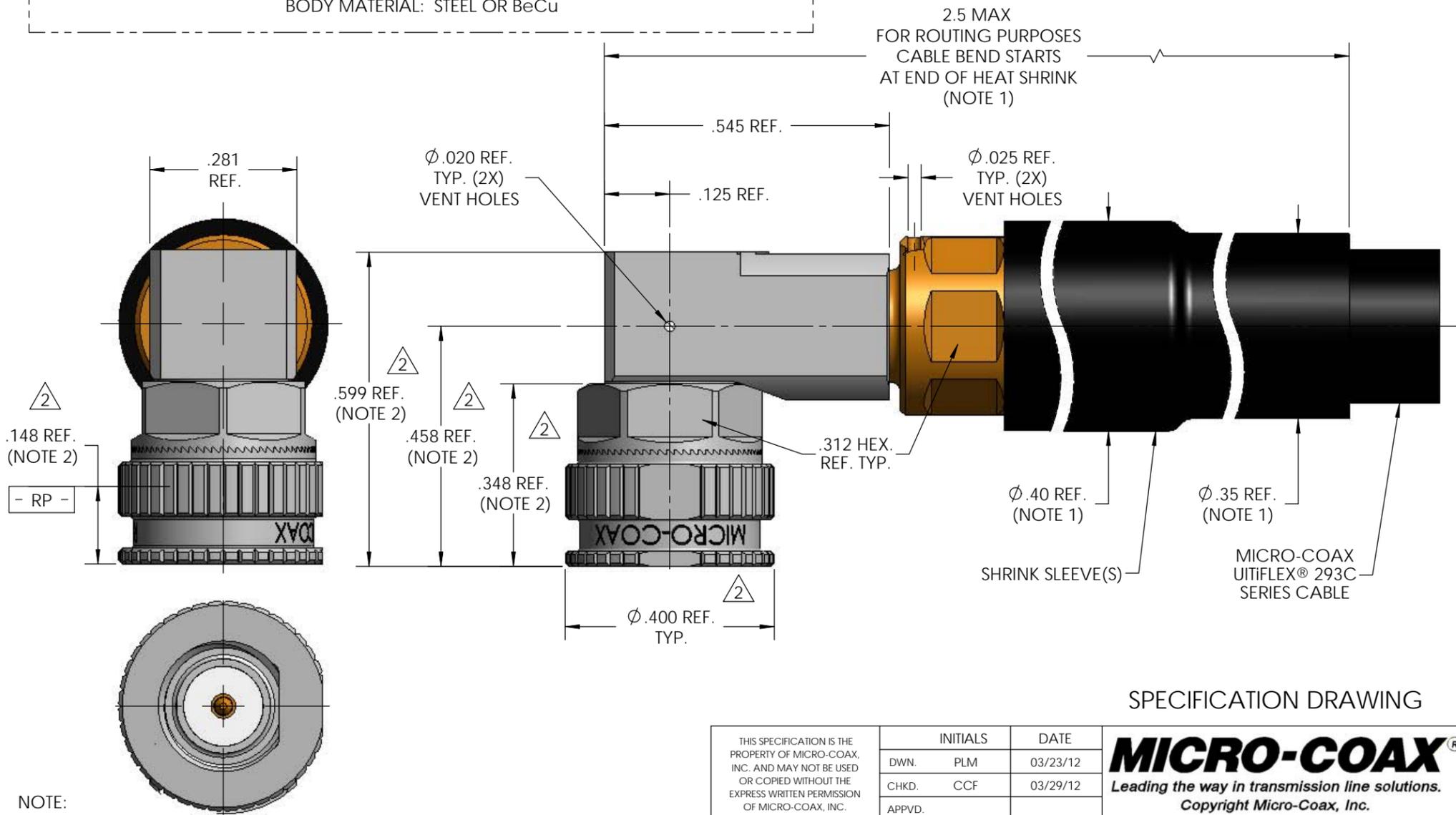
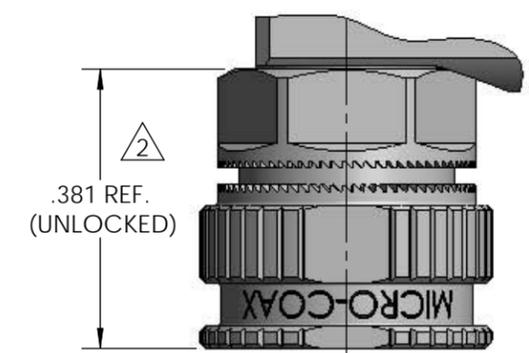
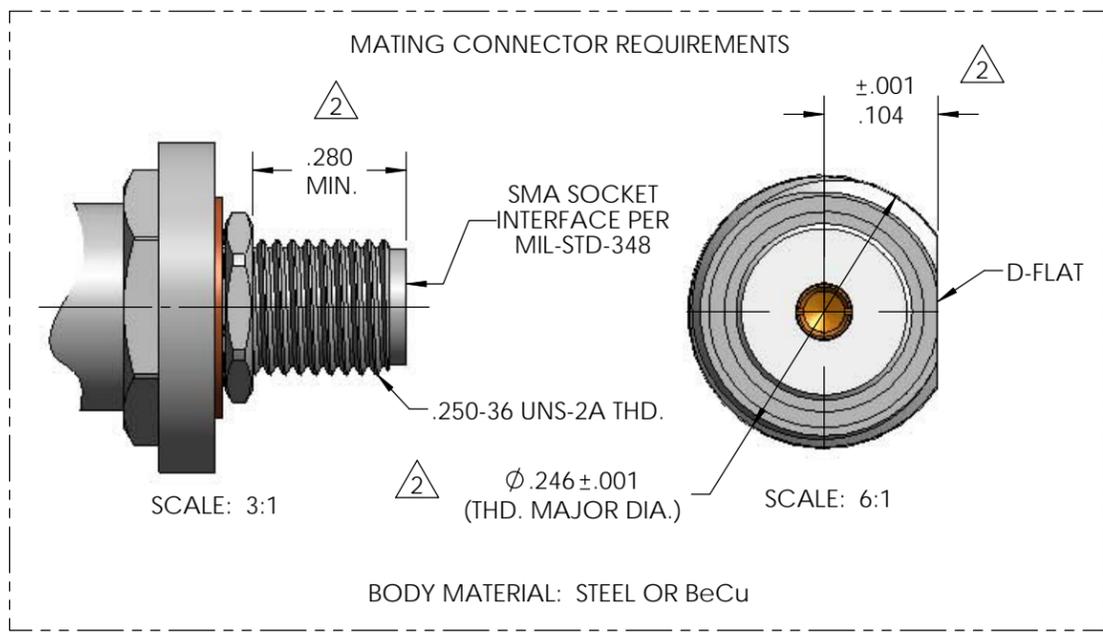
ENVIRONMENTAL CHARACTERISTICS	
OPERATING TEMPERATURE	-100 °C TO 150 °C
VIBRATION	MIL-STD-202, METHOD 204, CONDITION D
MECHANICAL SHOCK	MIL-STD-202, METHOD 213, CONDITION I
THERMAL SHOCK	MIL-STD-202, METHOD 107, CONDITION B
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%

MATERIALS AND FINISH	
MAIN BODY, COUPLING NUT, LOCKING SLEEVE	STEEL, CORROSION RESISTANT, ASTM-A-582, UNS NO. S30300, PASSIVATED PER ASTM-A-967
REAR BODY, CONTACT(S)	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
INSULATOR(S)	TFE FLUOROCARBON PER ASTM-D-1710
DIELECTRIC BEAD(S)	POLYETHERMIDE THERMOPLASTIC, PER ASTM-D-5205
SPRING	316BRT STAINLESS STEEL, PASSIVATED PER ASTM-B-967

APPLICATION	
CABLE(S)	293C SERIES CABLE
INSTALLATION	PER CONFIGURATOR

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REV	DESCRIPTION	DATE	BY	APPVD	CHKD
1	PRELIMINARY RELEASE	08/31/12	PLM	RS	CCF
2	REVISED SMA BHJ BODY DIMENSIONAL REQUIREMENTS; REVISED LOCKING SLEEVE; REMOVED RED STRIPE	5/30/2013	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.

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	DWN. PLM	03/23/12						
	CHKD. CCF	03/29/12						
	APPVD.							
TOLERANCES UNLESS OTHERWISE SPECIFIED	TITLE SMA PLUG, MITER RIGHT ANGLE, SELF-LOCKING, VENT HOLES, 293C, SPACE GRADE		FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV
XX ±.02	ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989.		64639	B	4:1	1 OF 1	SD905174	2
.XXX ±.005								
.XXX ±.0010								
ANGLES ±2°								