

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	3.55 GRAMS NOM.

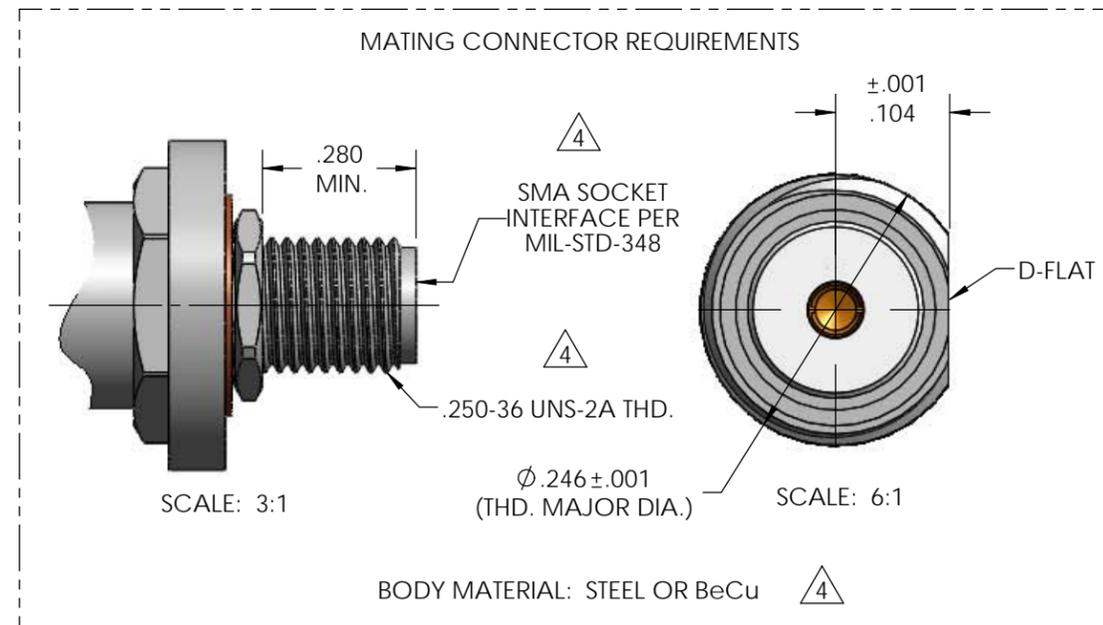
ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	30 GHz
VSWR DC - 26.5 GHz	1.16:1 MAX.
26.5 - 30 GHz	1.21:1 MAX.
INSERTION LOSS	0.03 \sqrt{F} (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1200 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 30 GHz	-90 dB MIN.
CORONA	300 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	800 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%

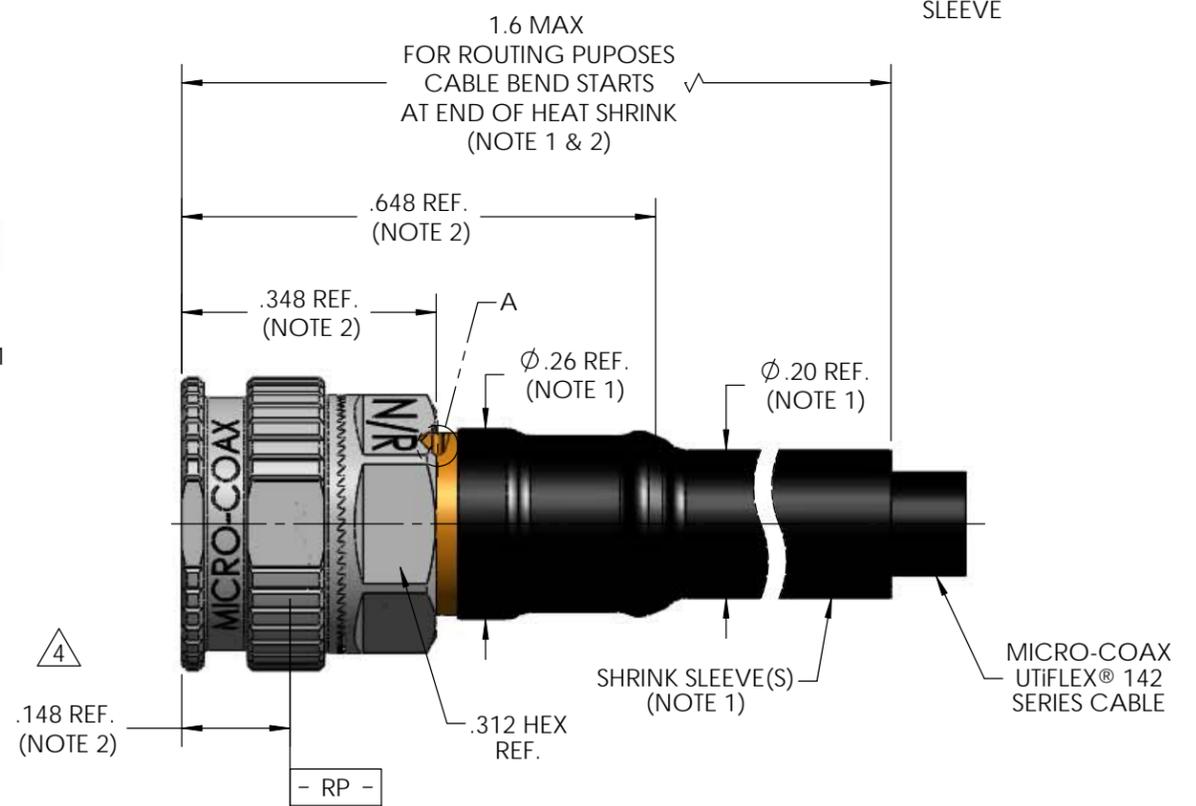
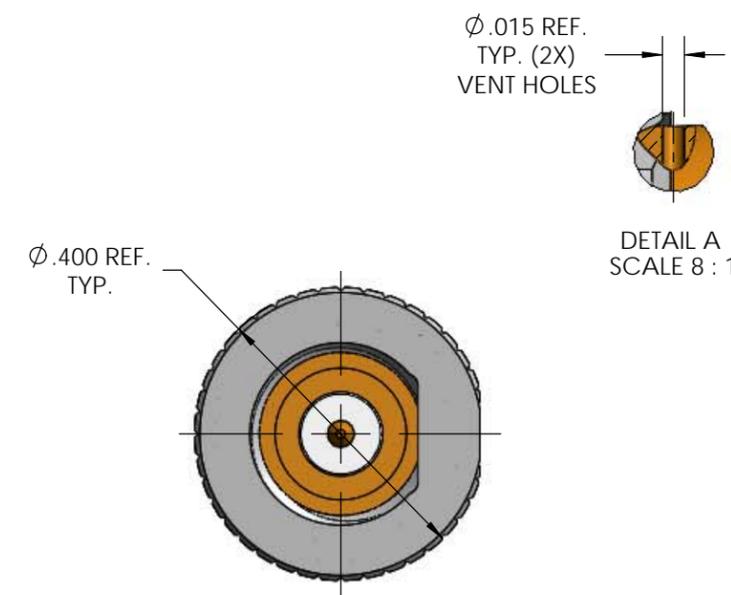
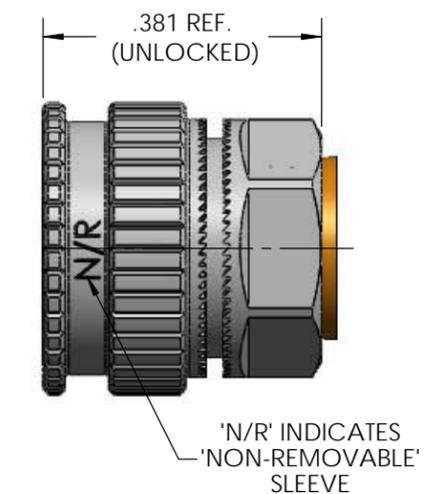
MATERIALS AND FINISH	
COUPLING NUT, LOCKING SLEEVE	STEEL, CORROSION RESISTANT, ASTM-A-582, UNS NO. S30300, PASSIVATED PER ASTM-A-967
BODY, CONTACT	BERYLLIUM COPPER, ASTM-B-196, GOLD PLATED PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290
SNAP RING	BERYLLIUM COPPER, PER ASTM-B-197
INSULATOR	TFE FLUOROCARBON PER ASTM-D-1710
DIELECTRIC STOP	POLYETHERMIDE THERMOPLASTIC, PER ASTM-D-5205
SPRING	316BRT STAINLESS STEEL, PASSIVATED PER ASTM-B-967

APPLICATION	
CABLE(S)	142 SERIES
INSTALLATION	PER CONFIGURATOR

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REV	DESCRIPTION	DATE	BY	APPVD	CHKD
1	PRELIMINARY RELEASE, ESR 1214145	5/29/2012	PLM	RS	CCF
2	ADDED RED STRIPE SPECIFICATION ON COUPLING NUT	9/4/2012	PLM	RS	RS
3	INCREASED LENGTH OF LOCKING SLEEVE BY .025; UPDATED MATING SMA BHJ BODY 'D' DIMENSIONAL REQUIREMENTS	3/12/2013	PLM	RS	RS
4	UPDATED SMA BHJ BODY DIMENSIONAL REQUIREMENTS; REMOVED RED STRIPE	6/3/2013	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	05/21/12									
	CHKD. CCF	05/22/12									
	APPVD.										
TOLERANCES UNLESS OTHERWISE SPECIFIED	TITLE					SMA PLUG, SELF-LOCKING, NON-REMOVABLE SLEEVE, VENT HOLES, 142 SERIES, SPACE GRADE					
.XX ± .02	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
.XXX ± .005						64639	B	4:1	1 OF 1	SD905193	4
.XXXX ± .0010											
ANGLES ± 2°											