

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. MAX.
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 WITHDRAW (FROM CABLE)	1 OZ. MIN.
CABLE RETENTION	10 LBS. MIN.
MASS	7.79 GRAMS NOM.

ELECTRICAL CHARACTERISTICS

IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	32 GHz
VSWR DC - 18 GHz	1.12:1 MAX.
18 - 26.5 GHz	1.16:1 MAX.
26.5 - 32 GHz	1.21:1 MAX.
INSERTION LOSS	0.03 \sqrt{f} (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	825 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB MIN.
CORONA	210 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	550 Vrms MIN.
CONTACT RESISTANCE (INNER)	3.0 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	2.0 MilliOhms MAX.

ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMPERATURE	-65°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

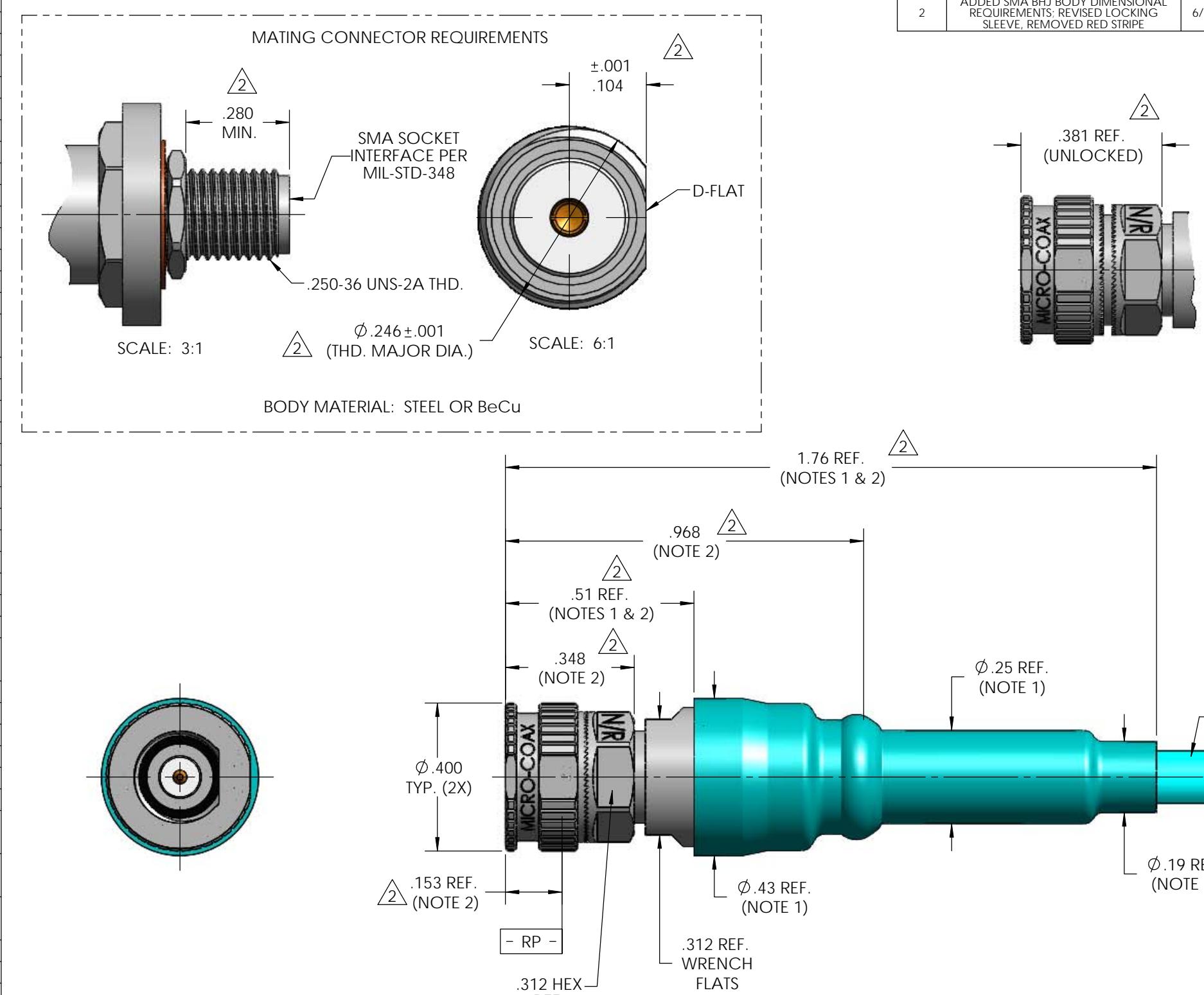
BODY, CLAMP NUT, LOCKING SLEEVE, COUPLING NUT	STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967
CONTACT	BERYLLIUM COPPER, ASTM-B-196, GOLD PLATED PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290
SNAP RING	BERYLLIUM COPPER, PER ASTM-B-197
INSULATOR	TFE FLUOROCARBON PER ASTM-D-1710
SPRING	316BRT STAINLESS STEEL, PASSIVATED PER ASTM-D-1710
DIELECTRIC BEAD	POLYETHERIMIDE THERMOPLASTIC PER ASTM-D-5205
GASKET	FLUOROCARBON ELASTOMER PER ASTM-D-1418
CONTACT RING	BRASS, PER ASTM-B-16 GOLD PLATE PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290

APPLICATION

CABLE(S)	140 SERIES CABLE
INSTALLATION	PER CONFIGURATOR

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REV	DESCRIPTION	DATE	BY	APPVD	CHKD
1	PRELIMINARY RELEASE, ESR 1214198	9/11/2012	PLM	RS	CCF
2	ADDED SMA BHJ BODY DIMENSIONAL REQUIREMENTS; REVISED LOCKING SLEEVE, REMOVED RED STRIPE	6/5/2013	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 THE LOCKED POSITION.

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DWN.	PLM	09/11/12
CHKD.	CCF	09/11/12
APPVD.		

TOLERANCES UNLESS OTHERWISE SPECIFIED		TITLE SMA PLUG, SELF-LOCKING, NON-REMovable SLEEVE, 142 SERIES			
XX	± .02	ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.	FSCM NO.	SIZE	SCALE
XXX	± .005	SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989.	64639	B	3:1
XXXX	± .0010				
ANGLES	± 2°				

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