

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 WITHDRAW (FROM CABLE)	1 Oz. MIN.
CABLE RETENTION	10 LBS. MIN.
MASS	3.51 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 GHz - 32 GHz	1.22:1 MAX.
INSERTION LOSS	0.03 $\sqrt{f}$ (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	650 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB MIN.
18 GHz - 32 GHz	TBD
CORONA	170 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	425 Vrms MIN.
CONTACT RESISTANCE (INNER)	4.0 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	STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967
BODY	STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, GOLD PLATED PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290
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(S)	TFE FLUOROCARBON PER ASTM-D-1710
DIELECTRIC BEAD	POLYHERIMIDE THERMOPLASTIC, PER ASTM-D-5205I
GASKET	SILICONE RUBBER PER ZZ-R-765
SPRING	316BRT STAINLESS STEEL, PASSIVATED PER ASTM-B-967
APPLICATION	
CABLE(S)	088D/092D CABLE
INSTALLATION	PER CONFIGURATOR

**THIS DRAWING IS PROPRIETARY AND CONFIDENTIAL.**

MATING CONNECTOR REQUIREMENTS

SCALE: 3:1

SCALE: 6:1

BODY MATERIAL: STEEL OR BeCu

SHRINK SLEEVE(S) (NOTE 1)

MICRO-COAX UTIFLEX® 088D/092D SERIES CABLE

DETAIL: Ø .400 REF. TYP.

'N/R' DESIGNATES SLEEVE IS NON-REMOVABLE

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.

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

TOLERANCES UNLESS OTHERWISE SPECIFIED		INITIALS		DATE	
XX	± .02	DWN.	PLM	05/24/12	
.XXX	± .005	CHKD.	CCF	05/25/12	
.XXXX	± .0010	APPVD.			
ANGLES	±2°				

TITLE		SMA PLUG, SELF-LOCKING, NON-REMOVABLE SLEEVE, HIGH FREQUENCY, 088D/092D CABLE					
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	5:1	1 OF 1	SD905200	3