

MECHANICAL CHARACTERISTICS	
INTERFACE	MIL-STD-348
RECOMMENDED MATING TORQUE	9 IN-LBS. NOM
COUPLING PROOF TORQUE	15 IN-LBS. MIN.
COUPLING NUT RETENTION	60 LBS. MIN.
FORCE TO ENGAGE/DISENGAGE	2 IN-LBS. MAX.
DURABILITY	500 CYCLES MIN.
AXIAL CONTACT RETENTION (FROM INTERFACE)	6.0 LBS. MIN.
AXIAL CONTACT RETENTION (FROM CABLE)	6.0 LBS. MIN.
CABLE RETENTION	60 LBS. MIN.
MASS	TBS grams NOM.
ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ohms. NOM.
MAXIMUM FREQUENCY	34 GHz
VSWR DC - 26.5 GHz	1.16:1 MAX.
26.5 - 34 GHz	1.21 MAX.
INSERTION LOSS	0.03 √F(GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1500 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE	-90 dB MIN.
CORONA	250 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	950 Vrms. MIN.
CONTACT RESISTANCE (INNER)	3.0 Milliohms MAX.
CONTACT RESISTANCE (OUTER)	2.0 Milliohms MAX.
ENVIRONMENTAL CHARACTERISTICS	
OPERATING TEMPERATURE	-55°C to +125°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 F
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106, (NO VIBRATION)
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%
MATERIAL AND FINISH	
BODY	BRASS PER ASTM B16. GOLD PLATE PER MIL-G-45204 OVER TRI-M3 OR EQUIVALANT
CONTACT	BERYLLIUM COPPER, UNS NO. C17300, PER ASTM-B-196. GOLD PLATE PER MIL-G-45204, OVER TRI-M3 PLATE, OVER COPPER PLATE PER MIL-C-14550.
RETAINING RING	BERYLLIUM COPPER, UNS NO. C17200, PER ASTM-B-197.
INSULATOR	TFE PER ASTM-D-1710.
GASKET	SILICONE RUBBER PER ZZ-R-765
COUPLING NUT	BRASS PER ASTM B16, TRI-M3 PLATE
APPLICATION	
CABLE(S)	141
INSTALLATION	AI-1370

REV.	DESCRIPTION	DATE	BY	APPVD.
A	INITIAL RELEASE	02/23/05	JMK	RDS

Technical drawing of an SMA Plug, 141 Cable, Slip-On. The drawing shows a side view of the plug with dimensions in inches. Key dimensions include: .51 REF. (total length), .020 REF. (flange thickness), Ø .225 REF. (flange outer diameter), Ø .20 REF. (flange inner diameter), .115 REF. (cable body diameter), .33 REF. (cable body length), and .312 HEX. (Ø.345 ACROSS POINTS) (cable body hex diameter). A retaining ring (RP) is shown on the cable body. The drawing is labeled 'SPECIFICATION DRAWING' and includes a title block with the company name 'MICRO-COAX' and the product name 'SMA PLUG, 141 CABLE, SLIP-ON'.

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		DWN. JMK	08/11/03						
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TOLERANCES UNLESS OTHERWISE SPECIFIED		TITLE							
		SMA PLUG, 141 CABLE, SLIP-ON							
.XX	± .02	ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B11-1989.		FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV
.XXX	± .005			64639	B	4:1	1 OF 1	SD903112	A
.XXXX	± .0010								
ANGLES	± 2°								