

MECHANICAL CHARACTERISTICS	
INTERFACE	MIL-STD-348, FIGURE 310-2
IN ACCORDANCE WITH THE INTENT OF SLANT SHEET	MIL-PRF-39012/57 REF.
RECOMMENDED MATING TORQUE	9 IN-LBS. NOM.
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)	2 LBS. MAX
CENTER CONTACT WITHDRAW (FROM CABLE)	1 Oz. MIN.
CABLE RETENTION	10 LBS. MIN.
MASS	6.01 GRAMS NOM.

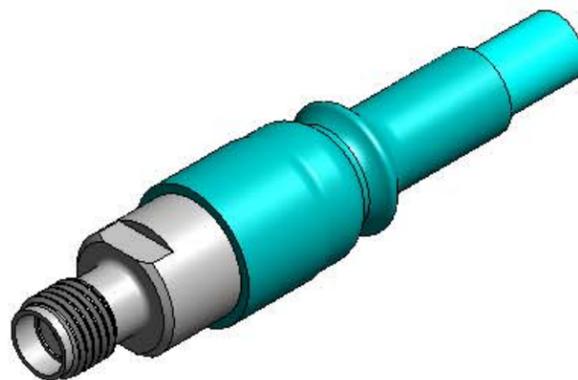
ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	22 GHz
VSWR DC - 20 GHz	1.15:1 MAX.
20 - 22 GHz	1.22:1 MAX.
INSERTION LOSS	0.03 \sqrt{F} (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1200 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB MIN.
18 - 22 GHz	-80 dB MIN.
CORONA	310 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	800 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 (NO VIBRATION)
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106, CONDITION (NO VIBRATION)
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%

MATERIALS AND FINISH	
BODY & CLAMP 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
CONTACT RING	BRASS, PER ASTM-B-16, GOLD PLATE PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290
INSULATOR & DIELECTRIC BEAD(S)	TFE FLUOROCARBON PER ASTM-D-1710

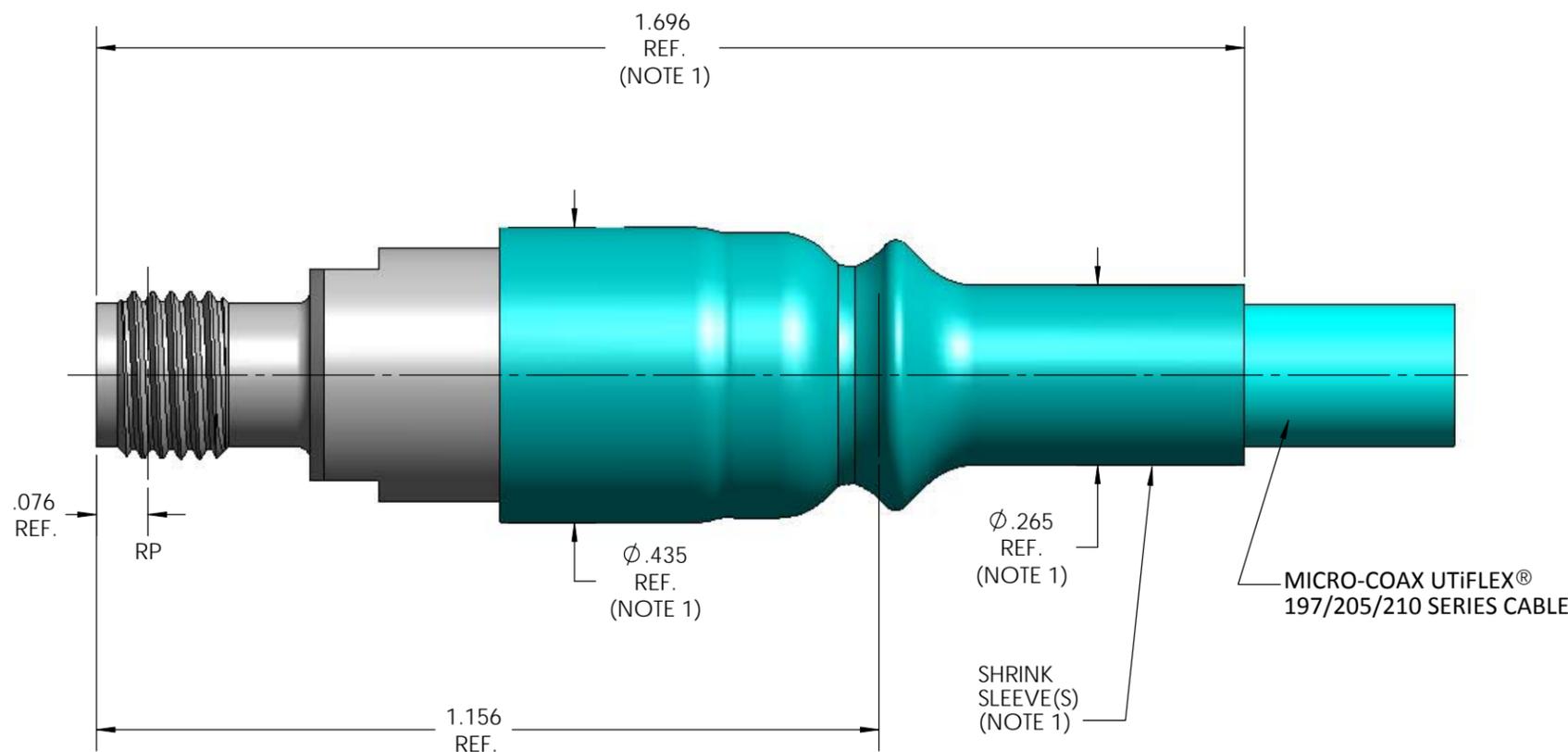
APPLICATION	
CABLE	197/205/210 CABLE
INSTALLATION	PER CONFIGURATOR

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ISOMETRIC VIEW
SCALE 2:1

REV.	DESCRIPTION	DATE	BY	APPVD
1	PRELIMINARY RELEASE	11/23/06	MJM	RS
2	UPDATE MASS	1/28/2008	MJM	RS
3	UPDATE MASS	1/31/2008	MJM	RS
4	UPDATE SPEC TABLE AND MAX FREQUENCY	2/4/2014	CCF	RS



NOTE:

1. MARKER LOCATION ON THIS DRAWING IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

SPECIFICATION DRAWING

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		DWN. MJM		11/22/06						
		CHKD. MJM		2/5/14						
		APPVD.								
TOLERANCES UNLESS OTHERWISE SPECIFIED		TITLE								
XX ± .02		SMA JACK, 197/205/210 SERIES								
.XXX ± .005		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
.XXXX ± .0010				64639		B	4:1	1 OF 1	SD901358	4
ANGLES ± 2°										