REV	DESCRIPTION	DATE	BY	APPVD
A	ECO 115537	9/9/2011	MJM	RS

MECHANICAL CHARACTERISTICS

INTERFACE	MIL-STD-348, FIGURE 313-3
SLANT SHEET	N/A
RECOMMENDED MATING TORQUE	9 IN-LBS NOM.
COUPLING PROOF TORQUE	15 IN-LBS. MIN.
COUPLING NUT RETENTION	60 IN-LBS. MIN.
FORCE TO ENGAGE	2 LBS. MAX.
FORCE TO DISENGAGE	2 LBS. MIN.
DURABILITY	500 CYCLES MIN.
AXIAL CONTACT RETENTION	6 LBS. MIN. (BOTH DIRECTIONS)
CABLE RETENTION	20 LBS MIN.
MASS	MASS = 19.97 GRAMS NOM.

ELECTRICAL CHARACTERISTICS

IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	18 GHz
VSWR DC - 12.4 GHz	1.15:1 MAX.
12.4 GHz - 18 GHz	1.20:1 MAX.
INSERTION LOSS	0.04 √F (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1500 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB
CORONA	375 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	1000 Vrms MIN.
CONTACT RESISTANCE (INNER)	4.0 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	2.0 MilliOhms MAX.

ENVIRONMENTAL CHARACTERISTICS

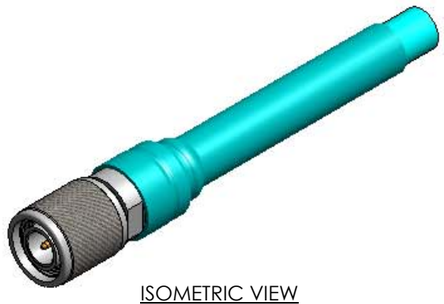
OPERATING TEMPERATURE	-62°C TO 165°C
VIBRATION	MIL-STD-202, METHOD 204, CONDITION D
MECHANICAL SHOCK	MIL-STD-202, METHOD 213, CONDITION I
THERMAL SHOCK	MIL-STD-202, METHOD 107, CONDITION B
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106, CONDITION (NO VIBRATION)
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%

MATERIALS AND FINISH

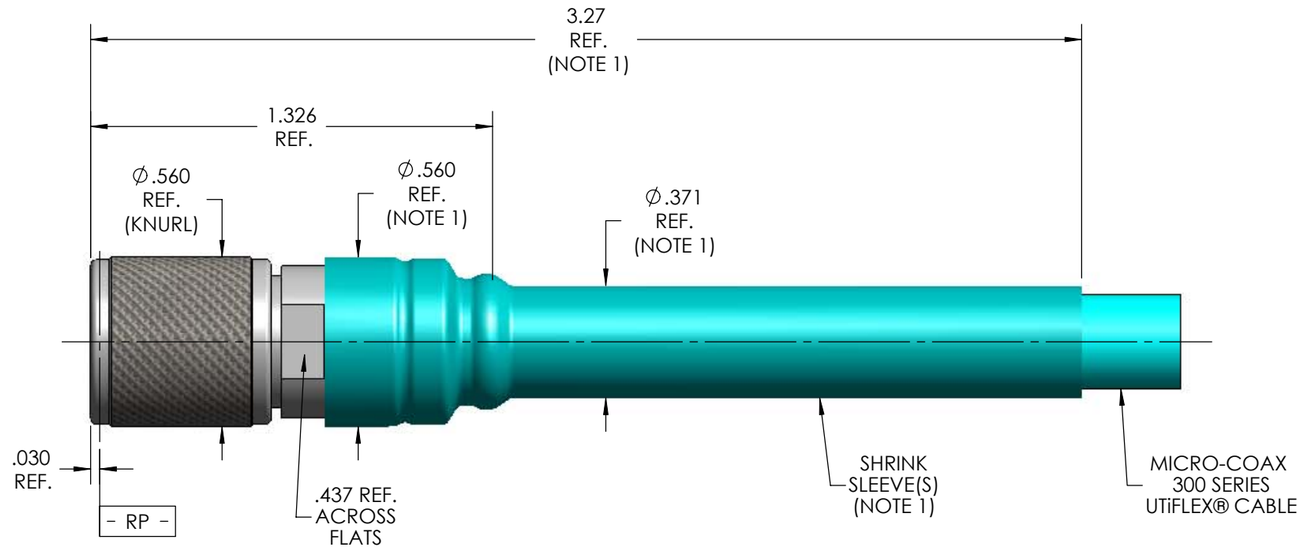
BODY, COUPLING NUT & CLAMP NUT	STEEL, CORROSION RESISTANT, ASTM-A-582, UNS NO. S30300, PASSIVATED PER ASTM-A-967
CONTACT	BERYLLIUM COPPER, ASTM-B-196, GOLD PLATED PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290
CONTACT RING	BRASS, PER ASTM B16, GOLD PLATE PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290
INSULATOR, DIELECTRIC STOP	POLYETHERIMIDE THERMOPLASTIC PER ASTM-D-5205
SNAP RING	BERYLLIUM COPPER, PER ASTM-B-197
GASKET	SILICONE RUBER PER ZZ-R-765

APPLICATION

CABLE(S)	300 SERIES CABLE
INSTALLATION	PER CONFIGURATOR



ISOMETRIC VIEW
SCALE 1:1



NOTE:

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

SPECIFICATION DRAWING

	INITIALS	DATE
DWN.	MJM	9/8/11
CHKD.	MJM	9/8/11
APPVD.		

MICRO-COAX®
Leading the way in transmission line solutions.

TOLERANCES UNLESS OTHEWISE SPECIFIED	
.XX	± .02
.XXX	± .005
.XXXX	± .0010
ANGLES	±2°

TITLE: TNCA PLUG, KNURL COULPING NUT, 300 SERIES

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	2:1	1 OF 1	SD905137	A