THIS DRAWING IS PROPRIETARY AND CONFIDENTIAL.

REV	DESCRIPTION	DATE	BY	APPVD	CHKD
A	INITIAL RELEASE - ECO 125165	3/28/2012	MJM	RS	CCF
B	ECO 125217	4/26/2012	MJM	RS	CCF

MECHANICAL CHARACTERISTICS

INTERFACE	IEC 169-23 (WITH EXCEPTIONS - SEE NOTES 2, 3 & 4)
IN ACCORDANCE WITH THE INTENT OF SLANT SHEET	IEEE 287 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. MAX.
AXIAL CONTACT RETENTION (FROM CABLE)	6 LBS. MAX.
CABLE RETENTION	15 LBS. MIN.
MASS	9.62 GRAMS

ELECTRICAL CHARACTERISTICS

IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	26.5 GHz
VSWR DC - 18 GHz	1.16:1MAX.
18 GHz - 26.5 GHz	1.20:1 MAX
INSERTION LOSS	0.03 $\sqrt{F}$ (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	925 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB MIN.
CORONA	240 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	600 Vrms MIN.
CONTACT RESISTANCE (INNER)	3.0 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	3.0 MilliOhms MAX.

ENVIRONMENTAL CHARACTERISTICS

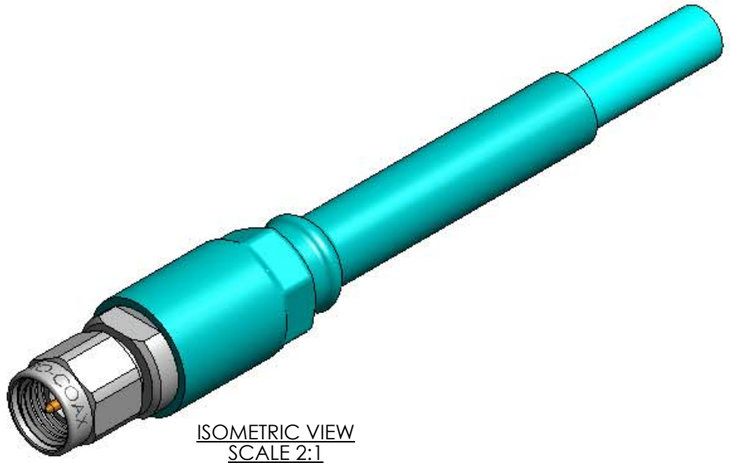
OPERATING TEMPERATURE	-65°C TO 165°C
VIBRATION	MIL-STD-202, METHOD 204, CONDITION D 20 Gs
MECHANICAL SHOCK	MIL-STD-202, METHOD 213, CONDITION I 10 Gs
THERMAL SHOCK	MIL-STD-202, METHOD 107, CONDITION B
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106, CONDITION B (NO VIBRATION)
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%

MATERIALS AND FINISH

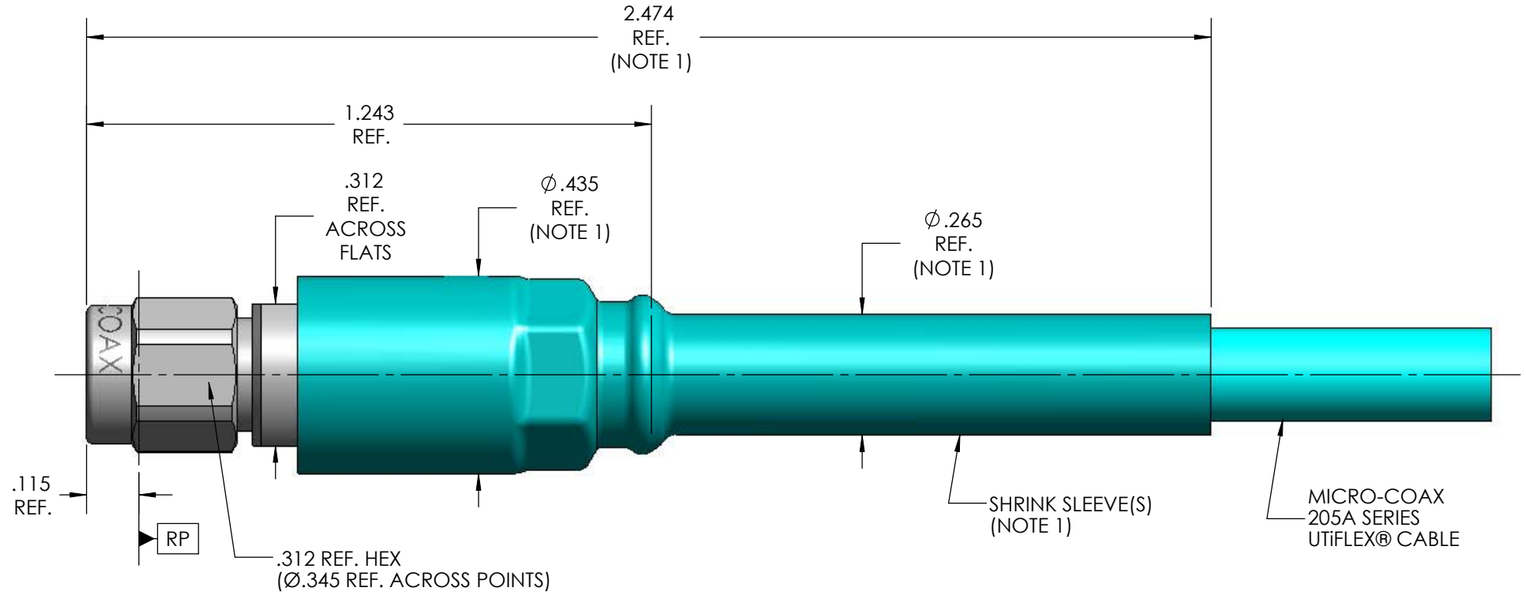
CONTACT	BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER MIL-DTL- 45204, OVER NICKEL PLATE PER QQ-N-290.
DIELECTRIC BEAD	POLYETHERIMIDE THERMOPLASTIC , PER ASTM-D-5205
BODY, SLEEVE, CLAMP NUT, & COUPLING NUT	STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967
SNAP RING	BERYLLIUM COPPER, PER ASTM-B-197
CONTACT RING	BRASS, PER ASTM-B-16, GOLD PLATE PER MIL-DTL-45204, OVER NICKEL PLATE PER QQ-N-290

APPLICATION

CABLE(S)	205A SERIES
INSTALLATION	PER CONFIGURATOR



ISOMETRIC VIEW
SCALE 2:1



NOTE(S):

1. MARKER LOCATION ON THIS DRAWING IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE.
2. CONTACT DIMENSION PER IEC 169-23, Ø.0362 - .0368 IS Ø.0358 - .0368.
3. THE BODY AND CONTACT DIMENSIONS PER IEC169-23, Ø.1375 - .1381 AND Ø.0596 - .0600, ARE DIMENSIONED AS REQUIRED TO MEET THE PERFORMANCE SPECIFICATIONS HEREIN.
4. THE 16 MICROINCH SURFACE FINISH PER IEC 169-23 ON THE CONTACT Ø.0596 - .0600 IS 32 MICROINCHES MAX.

SPECIFICATION DRAWING

	INITIALS	DATE
DWN.	MJM	7/30/07
CHKD.	CCF	5/9/12
APPVD.		

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

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

TITLE: 3.5mm PLUG, 205A, HIGH TEMP, LOW OUTGASSING

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	3:1	1 OF 1	SD904771	B