

MECHANICAL CHARACTERISTICS	
INTERFACE	MIL-STD-348, FIGURE 310-1
IN ACCORDANCE WITH THE INTENT OF SLANT SHEET	MIL-PRF-39012/56 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.
CABLE RETENTION	20 LBS. MIN.
MASS	9.39 GRAMS NOM.

ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	18 GHz
VSWR DC - 12.4 GHz	1.12:1 MAX.
12.4 - 18 GHz	1.16:1 MAX.
INSERTION LOSS	0.04 \sqrt{F} (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1325 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB MIN.
CORONA	340 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	875 Vrms MIN.
CONTACT RESISTANCE (INNER)	4.0 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	2.0 MilliOhms MAX.

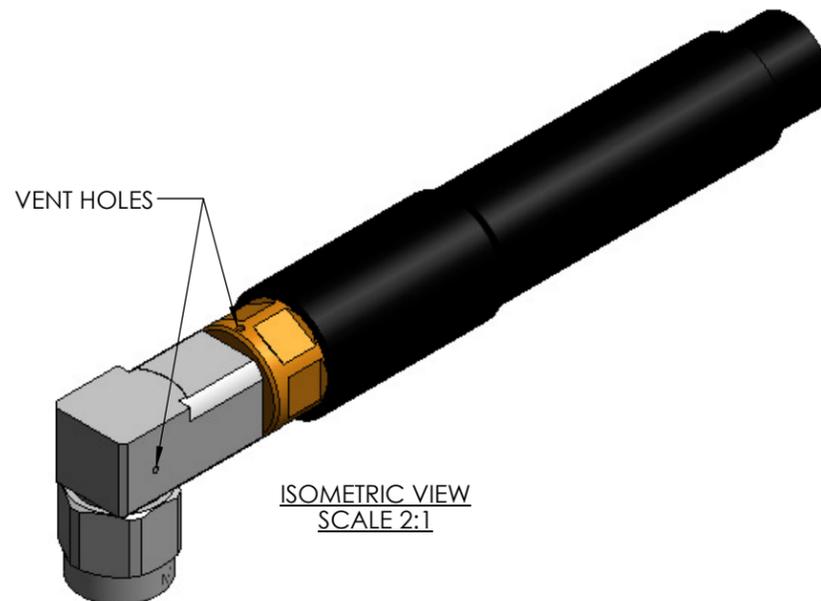
ENVIRONMENTAL CHARACTERISTICS	
OPERATING TEMPERATURE	-100 °C TO 150 °C
VIBRATION	MIL-STD-202, METHOD 204, CONDITION D
MECHANICAL SHOCK	MIL-STD-202, METHOD 213, CONDITION I
THERMAL SHOCK	MIL-STD-202, METHOD 107, CONDITION B
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%

MATERIALS AND FINISH	
BODY & COUPLING NUT	STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967
CONTACTS & REAR BODY	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
INSULATORS	TFE FLUOROCARBON PER ASTM-D-1710
DIELECTRIC BEAD	POLYETHERIMIDE THERMOPLASTIC, PER ASTM-D-5205
DIELECTRIC STOP	POLYPHENYLENE SULFIDE (PPS), PER ASTM-D-6358

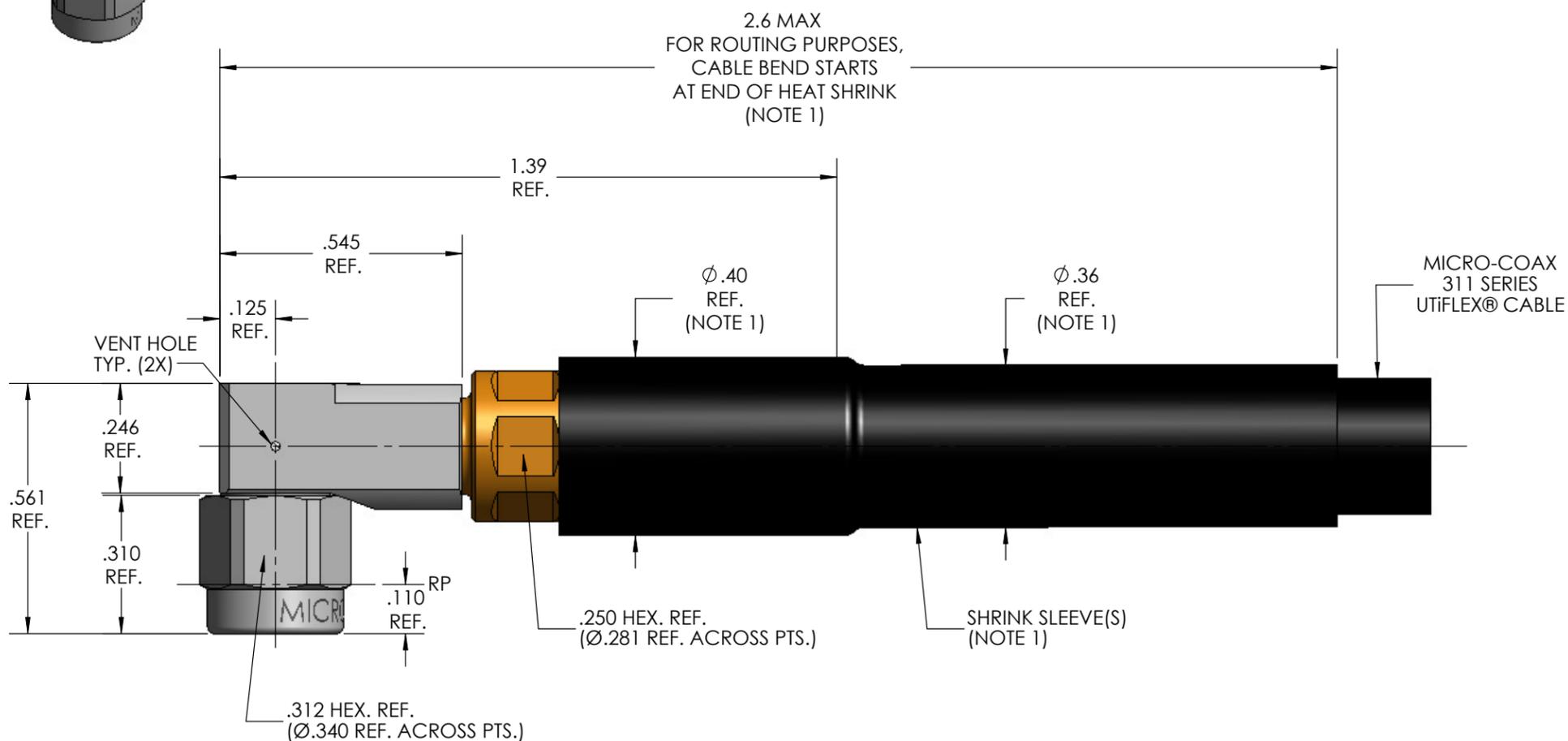
APPLICATION	
CABLE(S)	311 SERIES CABLE
INSTALLATION	PER CONFIGURATOR

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REV.	DESCRIPTION	DATE	BY	APPVD
A	INITIAL RELEASE - ECO 55797	11/02/05	SRS	AMD
B	ECO 75139	4/17/2007	MJM	RS
C	ECO 115215	4/12/2011	MJM	RS
D	ECO 115330	6/2/2011	MJM	RS
E	ECO 135334	6/19/2013	MJM	RS



ISOMETRIC VIEW
SCALE 2:1



NOTE:

1. MARKER LOCATION ON THIS DRAWING IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE.
2. ALL SPECIFICATIONS LISTED ON THIS DRAWING WILL ALSO APPLY TO CONNECTOR 903669-EM (EQUIPMENT MODEL).

SPECIFICATION DRAWING

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	DWN. SRS	10/27/05						
	CHKD. CCF	6/20/13						
	APPVD.							
TOLERANCES UNLESS OTHERWISE SPECIFIED	TITLE		SMA PLUG, MITER RIGHT ANGLE, 311 SERIES, VENTED, SPACE GRADE					
.XX ±.02	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
.XXX ±.005			64639	B	3:1	1 OF 1	SD903669	E
.XXXX ±.0010								
ANGLES ± 2°								