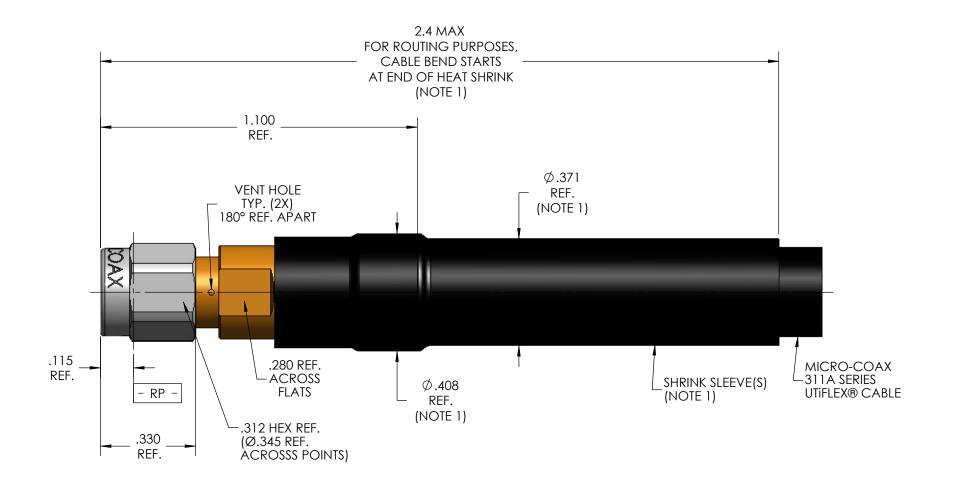
MECHANICA	AL CHARACTERISTICS	
INTERFACE	MIL-STD-348, FIGURE 310-1	
IN ACCORDANCE WITH THE INTENT OF SLANT SHEET	MIL-PRF-39012/55 REF.	
RECOMMENDED MATING TORQUE	9 IN-LBS. NOM.	
COUPLING PROOF TORQUE	15 IN-LBS. MIN.	
COUPLING NUT RETENTION	60 LBS. MIN.	
FORCE TO ENGAGE	2 IN-LBS. MAX.	
FORCE TO DISENGAGE	2 IN-LBS. MAX.	
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	MASS = 4.50 GRAMS NOM.	
ELECTRICA	L CHARACTERISTICS	
IMPEDANCE	50 Ohms NOM.	
MAXIMUM FREQUENCY	18 GHz	
VSWR DC - 18 GHz	1.16:1 MAX.	
INSERTION LOSS	0.03 VF (GHz) dB MAX.	
DIELECTRIC WITHSTANDING VOLTAGE	1225 Vrms MIN.	
INSULATION RESISTANCE	5000 MegaOhms MIN.	
RF LEAKAGE DC - 18 GHz	-90 dB MIN.	
CORONA	310 Vrms MIN. @ 70,000 FEET	
CORONA		
RF HIGH POTENTIAL	825 Vrms MIN.	
	825 Vrms MIN. 4.0 MilliOhms MAX.	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER)	4.0 MilliOhms MAX. 2.0 MilliOhms MAX.	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. ITAL CHARACTERISTICS	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. ITAL CHARACTERISTICS -100°C TO 150°C	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE VIBRATION	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. TAL CHARACTERISTICS -100 °C TO 150 °C MIL-STD-202, METHOD 204, CONDITION D	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. ITAL CHARACTERISTICS -100°C TO 150°C MIL-STD-202, METHOD 204, CONDITION D MIL-STD-202, METHOD 213, CONDITION I	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE VIBRATION MECHANICAL SHOCK	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. TAL CHARACTERISTICS -100 °C TO 150 °C MIL-STD-202, METHOD 204, CONDITION D	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE VIBRATION MECHANICAL SHOCK THERMAL SHOCK CORROSION	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. 2.0 MilliOhms MAX. TAL CHARACTERISTICS -100 °C TO 150 °C MIL-STD-202, METHOD 204, CONDITION D MIL-STD-202, METHOD 213, CONDITION I MIL-STD-202, METHOD 107, CONDITION B	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE VIBRATION MECHANICAL SHOCK THERMAL SHOCK CORROSION	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. 2.0 MilliOhms MAX. TAL CHARACTERISTICS -100 °C TO 150 °C MIL-STD-202, METHOD 204, CONDITION D MIL-STD-202, METHOD 213, CONDITION I MIL-STD-202, METHOD 107, CONDITION B MIL-STD-202, METHOD 101, CONDITION B, 5%	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE VIBRATION MECHANICAL SHOCK THERMAL SHOCK CORROSION MATERIA	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. 3.10 PC MILLIOHMS MAX. 3.10 PC MILLIOHMS MAX. 4.10 PC MILLIOHMS MAX. 5.10 PC MILLIOHMS MAX. 6.10 PC MILLIOHMS MAX. 6.10 PC MILLIOHMS MAX. 6.	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE VIBRATION MECHANICAL SHOCK THERMAL SHOCK CORROSION MATERI COUPLING NUT	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. 2.0 MilliOhms MAX. 2.0 MilliOhms MAX. TAL CHARACTERISTICS -100 °C TO 150 °C MIL-STD-202, METHOD 204, CONDITION D MIL-STD-202, METHOD 213, CONDITION I MIL-STD-202, METHOD 107, CONDITION B MIL-STD-202, METHOD 101, CONDITION B, 5% IALS AND FINISH STEEL, CORROSION RESISTANT, ASTM-A-582, UNS NO. \$30300, PASSIVATED PER ASTM-A-967 BERYLLIUM COPPER, ASTM-B-196, GOLD PLATED PER MIL-DIL-45204, OVER	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE VIBRATION MECHANICAL SHOCK THERMAL SHOCK CORROSION MATER COUPLING NUT BODY & CONTACT	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. 2.1 MilliOhms MAX. 2.1 MilliOhms MAX. 2.2 MilliOhms MAX. 2.3 MilliOhms MAX. 2.4 MilliOhms MAX. 2.5 MilliOhms MAX. 2.6 MilliOhms MAX. 2.7 MilliOhms MAX. 2.8 MilliOhms MAX. 2.9 MilliOhms MAX. 2.0 MilliOhms MAX. 2.1 Mi	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE VIBRATION MECHANICAL SHOCK THERMAL SHOCK CORROSION MATERI COUPLING NUT BODY & CONTACT SNAP RING	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. 2.1 Mi	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE VIBRATION MECHANICAL SHOCK THERMAL SHOCK CORROSION MATERI COUPLING NUT BODY & CONTACT SNAP RING INSULATOR DIELECTRIC BEAD(S)	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. 2.1 Mi	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE VIBRATION MECHANICAL SHOCK THERMAL SHOCK CORROSION MATERI COUPLING NUT BODY & CONTACT SNAP RING INSULATOR DIELECTRIC BEAD(S)	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. 2.0 MilliOhms MAX. 2.0 MilliOhms MAX. -100 °C TO 150 °C MIL-STD-202, METHOD 204, CONDITION D MIL-STD-202, METHOD 213, CONDITION I MIL-STD-202, METHOD 107, CONDITION B MIL-STD-202, METHOD 101, CONDITION B, 5% IALS AND FINISH STEEL, CORROSION RESISTANT, ASTM-A-582, UNS NO. \$30300, PASSIVATED PER ASTM-A-967 BERYLLIUM COPPER, ASTM-B-196, GOLD PLATED PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290 BERYLLIUM COPPER, PER ASTM-B-197 TFE FLUOROCARBON PER ASTM-D-1710 POLYPHENYLENE SULFIDE, PER ASTM-D-6358	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE VIBRATION MECHANICAL SHOCK THERMAL SHOCK CORROSION MATERI COUPLING NUT BODY & CONTACT SNAP RING INSULATOR DIELECTRIC BEAD(S)	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. 2.0 MilliOhms MAX. -100 °C TO 150 °C MIL-STD-202, METHOD 204, CONDITION D MIL-STD-202, METHOD 213, CONDITION I MIL-STD-202, METHOD 107, CONDITION B MIL-STD-202, METHOD 101, CONDITION B, 5%	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE VIBRATION MECHANICAL SHOCK THERMAL SHOCK CORROSION MATERI COUPLING NUT BODY & CONTACT SNAP RING INSULATOR DIELECTRIC BEAD(S) AR CABLE(S)	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. 2.0 MilliOhms MAX. -100°C TO 150°C MIL-STD-202, METHOD 204, CONDITION D MIL-STD-202, METHOD 213, CONDITION I MIL-STD-202, METHOD 107, CONDITION B MIL-STD-202, METHOD 101, CONDITION B, 5%	
RF HIGH POTENTIAL CONTACT RESISTANCE (INNER) CONTACT RESISTANCE (OUTER) ENVIRONMEN OPERATING TEMPERATURE VIBRATION MECHANICAL SHOCK THERMAL SHOCK CORROSION MATER COUPLING NUT BODY & CONTACT SNAP RING INSULATOR DIELECTRIC BEAD(S) AR CABLE(S) INSTALLATION	4.0 MilliOhms MAX. 2.0 MilliOhms MAX. 2.0 MilliOhms MAX. -100°C TO 150°C MIL-STD-202, METHOD 204, CONDITION D MIL-STD-202, METHOD 213, CONDITION I MIL-STD-202, METHOD 107, CONDITION B MIL-STD-202, METHOD 101, CONDITION B, 5% IALS AND FINISH STEEL, CORROSION RESISTANT, ASTM-A-582, UNS NO. \$30300, PASSIVATED PER ASTM-A-967 BERYLLIUM COPPER, ASTM-B-196, GOLD PLATED PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290 BERYLLIUM COPPER, PER ASTM-B-197 TFE FLUOROCARBON PER ASTM-D-1710 POLYPHENYLENE SULFIDE, PER ASTM-D-6358 PPLICATION 311A SERIES CABLE PER CONFIGURATOR	

THIS DRAWING IS PROPRIETARY AND CONFIDENTIAL.

REV	DESCRIPTION	DATE	BY	APPVD	CHKD
Α	INITIAL RELEASE	11/18/2004	JMK	RS	-
Al	ECO 105240	3/24/2010	MJM	RS	MJR
A2	ECO 105494	6/4/2010	MJM	RS	MJR
А3	ECO 115219	4/13/2011	MJM	RS	CCF
A4	ECO 115401	7/11/2011	MJM	RS	CCF
В	ECO 125640	12/6/2012	MJM	RS	CCF
В1	ECO 135510	10/24/2013	MJM	RS	CCF



ANGLES ±2°

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 903849-EM (EQUIPMENT MODEL).
- 3. SEE SHEET 2 FOR HEAT SHRINK FORMED ELBOW CONFIGURATION.

	SPECIFICATION DRAWING

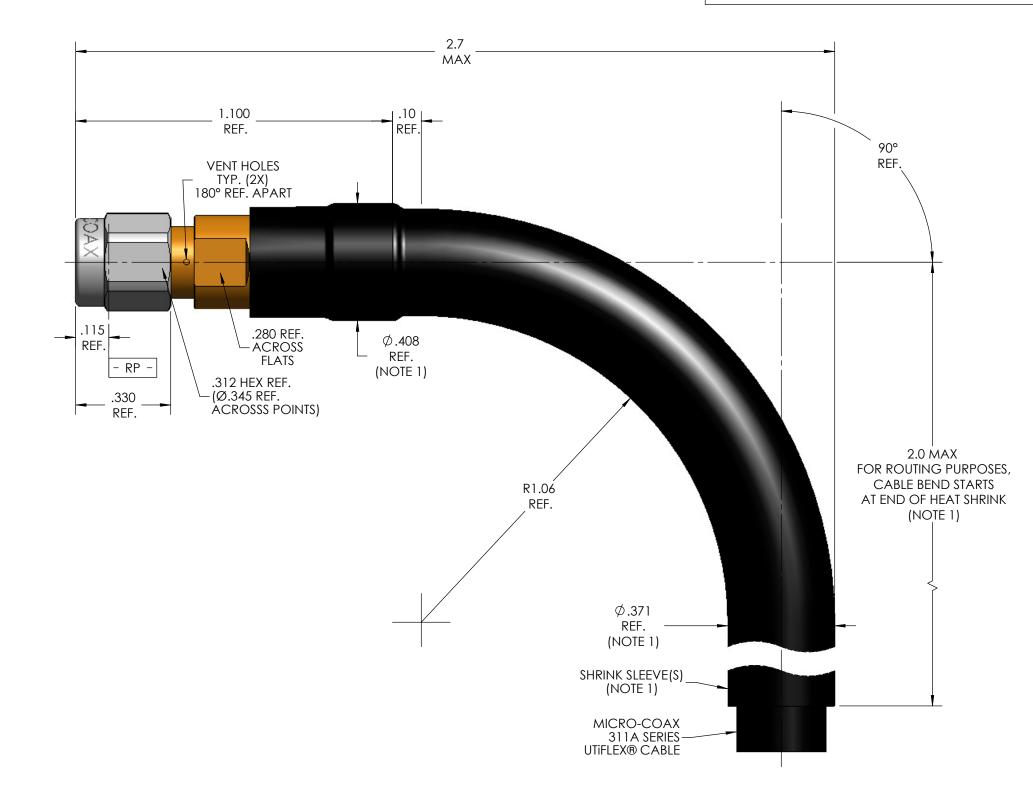
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		CHKD.	CCF	7/26		PROVEN RELIA				
		APPVD.						PI	KOVEN KELIAL	LE
		TITLE	SMA PLU	G, LIG	HT WEIC	HT, VI	ENT HO	OLES, 311	A, SPACE GRAI	DE
.XX	± .02									
.XXX.	± .005	ALL DIMENSIONS IN INCHES		FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV	
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DESCRIPTION

SEE SHEET 1 FOR REVISION HISTORY





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

ISOMETRIC VIEW SCALE 2:1

ALL DIMENS	SIONS AND	INI	TIALS	DATE	
TOLERANCES IN INCHES		DWN.	MJM	3/10/10	
UNLESS OTHER	WISE SPECIFIED.	CHKD.	CCF	7/26/11	
.XX	± .02	APPVD			

MICRO-COAX

XXX ± .005

.XXXX ± .0010

ANGLES ± 2°

SMA PLUG, LIGHT WEIGHT, HEAT SHRINK FORMED ELBOW, VENT HOLES, 311A, SPACE GRADE

FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV.
64639	В	3:1	2 OF 2	SD903849	В1