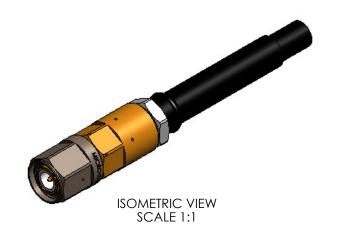
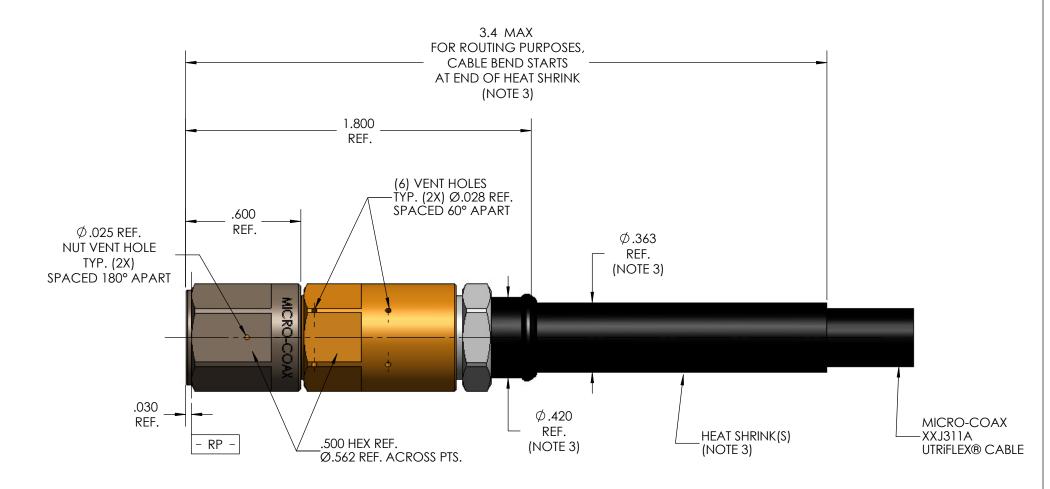
MECHANICA	AL CHARACTERISTICS
INTERFACE	MIL-STD-348, FIGURE 313.1 (SEE NOTE 4)
IN ACCORDANCE WITH THE INTENT OF SLANT SHEET	MIL-PRF-39012/26 REF.
RECOMMENDED MATING TORQUE	20 IN-LBS. NOM.
COUPLING PROOF TORQUE	25 IN-LBS. MIN.
COUPLING NUT RETENTION	100 LBS. MIN.
FORCE TO ENGAGE	2 IN-LBS. MAX.
FORCE TO DISENGAGE	2 IN-LBS. MIN.
DURABILITY	500 CYCLES MIN.
AXIAL CONTACT RETENTION (FROM INTERFACE)	6 LBS. MIN. (BOTH DIRECTIONS)
CABLE RETENTION	20 LBS. MIN.
MASS	26.20 GRAMS NOM.
ELECTRICAL	. CHARACTERISTICS
IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	12.7 GHz
VSWR DC - 12.7 GHz	1.15:1MAX.
INSERTION LOSS	0.045 √F (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	2100 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 3 GHz	-90 dB
CORONA	540 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	1400 Vrms MIN.
CONTACT RESISTANCE (INNER)	1.5 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	0.2 MilliOhms MAX.
C.W. POWER	200 WATTS THROUGH 8 GHz IN VACUUM (ANALYSIS)
PEAK POWER (MULTIPACTION)	700 WATTS THROUGH 8 GHz IN VACUUM (ANALYSIS)
OPERATING TEMPERATURE VIBRATION	-100°C TO 150°C MIL-STD-202, METHOD 204, CONDITION B
MECHANICAL SHOCK	
	MIL-STD-202, METHOD 213, CONDITION I
THERMAL SHOCK	
THERMAL SHOCK CORROSION	MIL-STD-202, METHOD 213, CONDITION I MIL-STD-202, METHOD 101, CONDITION B MIL-STD-202, METHOD 101, CONDITION B, 5%
CORROSION	MIL-STD-202, METHOD 107, CONDITION B
CORROSION	MIL-STD-202, METHOD 107, CONDITION B MIL-STD-202, METHOD 101, CONDITION B, 5%
CORROSION	MIL-STD-202, METHOD 107, CONDITION B MIL-STD-202, METHOD 101, CONDITION B, 5%  ALS AND FINISH  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER COPPER PLATE PER ASTM-B734.
MATERIA BODY, BUSHING	MIL-STD-202, METHOD 107, CONDITION B  MIL-STD-202, METHOD 101, CONDITION B, 5%  ALS AND FINISH  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER COPPER PLATE PER ASTM-B734.  ALUMINUM ALLOY PER ASTM-B-221, HARD COAT ANODIZI
MATERIA BODY, BUSHING COUPLING NUT	MIL-STD-202, METHOD 107, CONDITION B  MIL-STD-202, METHOD 101, CONDITION B, 5%  ALS AND FINISH  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER COPPER PLATE PER ASTM-B734.  ALUMINUM ALLOY PER ASTM-B-221, HARD COAT ANODIZE PER MIL-A-8625 (STANDARD GRAY/BLACK COLOR)  BERYLLIUM COPPER PER ASTM-B-197
MATERIA BODY, BUSHING COUPLING NUT SNAP RING	MIL-STD-202, METHOD 107, CONDITION B  MIL-STD-202, METHOD 101, CONDITION B, 5%  ALS AND FINISH  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER COPPER PLATE PER ASTM-B734.  ALUMINUM ALLOY PER ASTM-B-221, HARD COAT ANODIZI PER MIL-A-8625 (STANDARD GRAY/BLACK COLOR)  BERYLLIUM COPPER PER ASTM-B-197  STEEL, CORROSION RESISTANT PER ASTM-A-582, PASSIVATE PER ASTM-A-967
MATERIA BODY, BUSHING  COUPLING NUT SNAP RING  CLAMP NUT	MIL-STD-202, METHOD 107, CONDITION B  MIL-STD-202, METHOD 101, CONDITION B, 5%  ALS AND FINISH  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER COPPER PLATE PER ASTM-B734.  ALUMINUM ALLOY PER ASTM-B-221, HARD COAT ANODIZI PER MIL-A-8625 (STANDARD GRAY/BLACK COLOR)  BERYLLIUM COPPER PER ASTM-B-197  STEEL, CORROSION RESISTANT PER ASTM-A-582, PASSIVATE PER ASTM-A-967  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER MIL
MATERIA BODY, BUSHING  COUPLING NUT SNAP RING  CLAMP NUT  CONTACT RING, CONTACT	MIL-STD-202, METHOD 107, CONDITION B  MIL-STD-202, METHOD 101, CONDITION B, 5%  ALS AND FINISH  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER COPPER PLATE PER ASTM-B734.  ALUMINUM ALLOY PER ASTM-B-221, HARD COAT ANODIZI PER MIL-A-8625 (STANDARD GRAY/BLACK COLOR)  BERYLLIUM COPPER PER ASTM-B-197  STEEL, CORROSION RESISTANT PER ASTM-A-582, PASSIVATE PER ASTM-A-967  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER MIL DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290.
MATERIA BODY, BUSHING  COUPLING NUT  SNAP RING  CLAMP NUT  CONTACT RING, CONTACT  INSULATORS  DIELECTRIC STOP(S), WASHER	MIL-STD-202, METHOD 107, CONDITION B MIL-STD-202, METHOD 101, CONDITION B, 5%  ALS AND FINISH  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER COPPER PLATE PER ASTM-B734.  ALUMINUM ALLOY PER ASTM-B-221, HARD COAT ANODIZI PER MIL-A-8625 (STANDARD GRAY/BLACK COLOR)  BERYLLIUM COPPER PER ASTM-B-197  STEEL, CORROSION RESISTANT PER ASTM-A-582, PASSIVATE PER ASTM-A-967  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER MILDTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290.  TFE FLUOROCARBON PER ASTM-D-1710
MATERIA BODY, BUSHING  COUPLING NUT  SNAP RING  CLAMP NUT  CONTACT RING, CONTACT  INSULATORS  DIELECTRIC STOP(S), WASHER	MIL-STD-202, METHOD 107, CONDITION B MIL-STD-202, METHOD 101, CONDITION B, 5%  ALS AND FINISH  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER COPPER PLATE PER ASTM-B734.  ALUMINUM ALLOY PER ASTM-B-221, HARD COAT ANODIZE PER MIL-A-8625 (STANDARD GRAY/BLACK COLOR)  BERYLLIUM COPPER PER ASTM-B-197  STEEL, CORROSION RESISTANT PER ASTM-A-582, PASSIVATE PER ASTM-A-967  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER MILDTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290.  TFE FLUOROCARBON PER ASTM-D-1710  POLYIMIDE, PER ASTM D-6456 (TYPE 1)
MATERIA BODY, BUSHING  COUPLING NUT  SNAP RING  CLAMP NUT  CONTACT RING, CONTACT  INSULATORS  DIELECTRIC STOP(S), WASHER   AP  CABLE(S)	MIL-STD-202, METHOD 107, CONDITION B  MIL-STD-202, METHOD 101, CONDITION B, 5%  ALS AND FINISH  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER COPPER PLATE PER ASTM-B734.  ALUMINUM ALLOY PER ASTM-B-221, HARD COAT ANODIZE PER MIL-A-8625 (STANDARD GRAY/BLACK COLOR)  BERYLLIUM COPPER PER ASTM-B-197  STEEL, CORROSION RESISTANT PER ASTM-A-582, PASSIVATE PER ASTM-A-967  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER MIL DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290.  TFE FLUOROCARBON PER ASTM-D-1710  POLYIMIDE, PER ASTM D-6456 (TYPE 1)
MATERIA BODY, BUSHING  COUPLING NUT  SNAP RING  CLAMP NUT  CONTACT RING, CONTACT  INSULATORS  DIELECTRIC STOP(S), WASHER	MIL-STD-202, METHOD 107, CONDITION B MIL-STD-202, METHOD 101, CONDITION B, 5%  ALS AND FINISH  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER COPPER PLATE PER ASTM-B734.  ALUMINUM ALLOY PER ASTM-B-221, HARD COAT ANODIZE PER MIL-A-8625 (STANDARD GRAY/BLACK COLOR)  BERYLLIUM COPPER PER ASTM-B-197  STEEL, CORROSION RESISTANT PER ASTM-A-582, PASSIVATE PER ASTM-A-967  BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER MIL DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290.  TFE FLUOROCARBON PER ASTM-D-1710  POLYIMIDE, PER ASTM D-6456 (TYPE 1)

#### THIS DRAWING IS PROPRIETARY AND CONFIDENTIAL.



REV.	DESCRIPTION	DATE	BY	APPVD
Α	INITIAL RELEASE_RDCR 77089	10/30/2007	MJM	RS
Al	ECO 85146	3/20/2008	MJM	RS
В	ECO 85036	6/13/2008	PLM	JW
B1	ECO 85453	8/5/2008	MJM	JW
С	ECO 95181	3/17/2009	MJM	RS
C1	95498	8/27/2009	MJM	RS
D	ECO 105720	8/31/2010	MJM	RS
E	ECO 115093	2/14/2011	MJM	RS
E1	ECO 115403	7/11/2011	MJM	RS
F	ECO 135006	1/11/2013	MJM	RS
F1	ECO 135378	7/22/2013	MJM	RS



.XXXX

ANGLES

± .0010

+ 2°

#### NOTES:

- 1. THIS CONNECTOR NOT INTENDED FOR PIM APPLICATIONS.
- 2. VERIFY MULTIPACTION RATINGS FOR EACH APPLICATION.
- 3. MARKER LOCATION ON THIS DRAWING IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE.
- 4. THE MINIMUM DIMENSION FOR THE SHOULDER OF THE CENTER CONTACT SHALL BE 0.208 PER MIL-STD-348A, FIG. 313.3, NOTICE 1, DIM E.
- 5. ALL SPECIFICATIONS LISTED ON THIS DRAWING WILL ALSO APPLY TO CONNECTOR 904814-EM (EQUIPMENT MODEL).
- 6. SEE SHEET 2 FOR HEAT SHRINK FORMED ELBOW CONFIGURATION.

## SPECIFICATION DRAWING

SD904814

B 2:1 1 OF 2

	THIS SPECIFICATION IS THE			INITIALS	DA	TE	MICRO-COAX					
	PROPERTY OF I		DWN.	MJM	10/22	2/07	M		9 h	1 <b>U</b> -	GUAX	
	OR COPIED WITHOUT THE EXPRESS WRITTEN PERMISSION OF MICRO-COAX, INC.		CHKD.	CCF	1/14	/13	Leading the way in transmission line solutions.					
			APPVD.					-	Copyri	ght Micro-	Coax, Inc.	
	TOLERANC OTHEWISE		TITLE T	NC PLUG	, HIGH	H POW	/ER,	VENI	T HOL	ES, SPAC	E GRADE, XXJ3	11A
	.XX	± .02										_
Ì	.XXX.	± .005		ALL DIMENSIONS IN INC		FSCM	NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV
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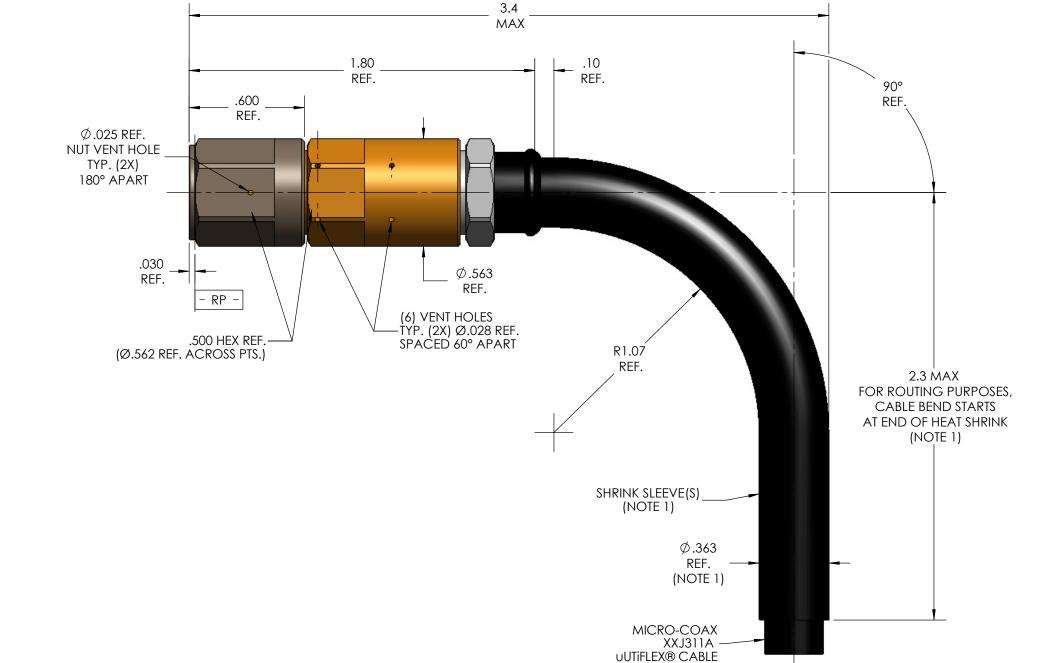
SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989.

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DESCRIPTION

SEE SHEET 1 FOR REVISION HISTORY



# NOTE:

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

ISOMETRIC VIEW SCALE 1:1

ALL DIMENSIONS AND TOLERANCES IN INCHES UNLESS OTHERWISE SPECIFIED.		INI	TIALS	DAT	E ,	MICDO-COAY				<b>V</b> R		
		DWN.	MJM	10/22/	07	MICRO-COAX  Leading the way in transmission line solutions.						
		CHKD.	CCF	1/14/	13 <b>L</b>							
.XX	± .02	APPVD.				Copyright Micro-Coax, Inc.						
.XXX	± .005	TITLE	TNIC	DILIC		H POWER, VENT HOLES, HEAT SHRINK						
.XXXX	± .0010	IIILE	IIIC									
ANGLES	± 2°		FORMED ELBOW, XXJ311A, SPACE GRADE									
			FS	SCM NO.	SIZE	Е	SCALE	SHEET NO.	DRAWING NO.	REV.		
			(	64639	В	•	2:1	2 OF 2	SD904814	F1		