MECHANICAL CHARACTERISTICS

INTERFACE	MIL-STD-348, FIGURE 313-2
SLANT SHEET	MIL-PRF-39012/28 REF.
RECOMMENDED MATING TORQUE	15 IN-LBS. NOM.
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. (BOTH DIRECTIONS)
CABLE RETENTION	30 LBS. MIN.
C.W. POWER	325 WATTS AVERAGE, IN VACUUM (ANALYSIS)
PEAK POWER (MULTIPACTION) - 0.05 TO 0.70 GHz	460 WATTS PEAK
-0.70 TO 3.00 GHz	300WATTS PEAK
-ABOVE 3.00 GHz	460 WATTS PEAK
MASS	30.80 GRAMS NOM.
RECOMMENDED JAM NUT TORQUE	35 - 40 IN-LBS.

ELECTRICAL CHARACTERISTICS

IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	10.0 GHz
VSWR DC - 10.0 GHz	1.15:1MAX.
INSERTION LOSS	0.04 $\sqrt{F}$ (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	2125 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 10 GHz	-90 dB
CORONA	540 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	1400 Vrms MIN.
CONTACT RESISTANCE (INNER)	4.0 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	2.0 MilliOhms MAX.

ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMPERATURE	-40°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

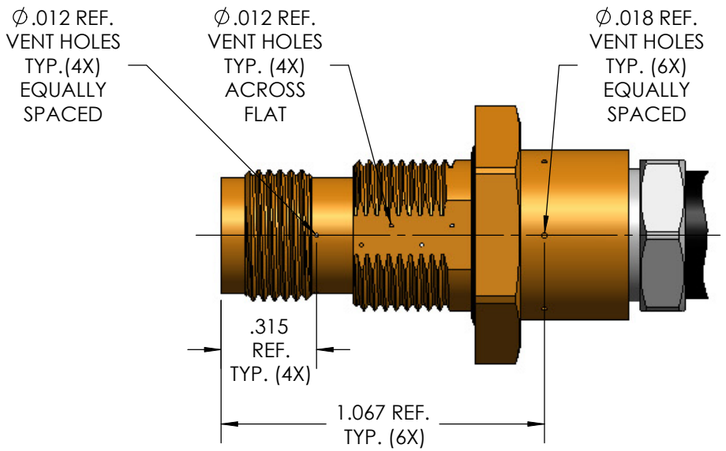
CONTACT, CONTACT RING	BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER NICKEL PER ASTM-B733, OVER COPPER FLASH PER SAE-AMS 2418
BODY, BUSHING	BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER COPPER PLATE PER ASTM-B734.
LOCKNUT, WASHER, CLAMP NUT	STEEL, CORROSION RESISTANT PER ASTM-A-582, PASSIVATE PER ASTM-A-967
FORWARD INSULATOR, REAR INSULATOR	TFE FLUOROCARBON PER ASTM-D-1710
DIELECTRIC STOP(S), WASHER	POLYMIDE, PER ASTM D-6456 (TYPE 1)
GASKET	FLUOROCARBON ELASTOMER 75 DUROMETER

APPLICATION

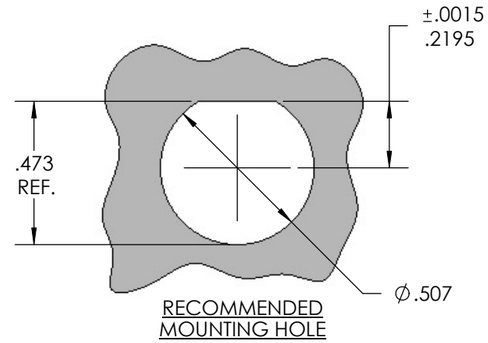
CABLE(S)	311A SERIES
INSTALLATION	PER CONFIGURATOR
CONNECTOR CODE SHEET 1	A2V
CONNECTOR CODE SHEET 2	ARV

THIS DRAWING IS PROPRIETARY AND CONFIDENTIAL.

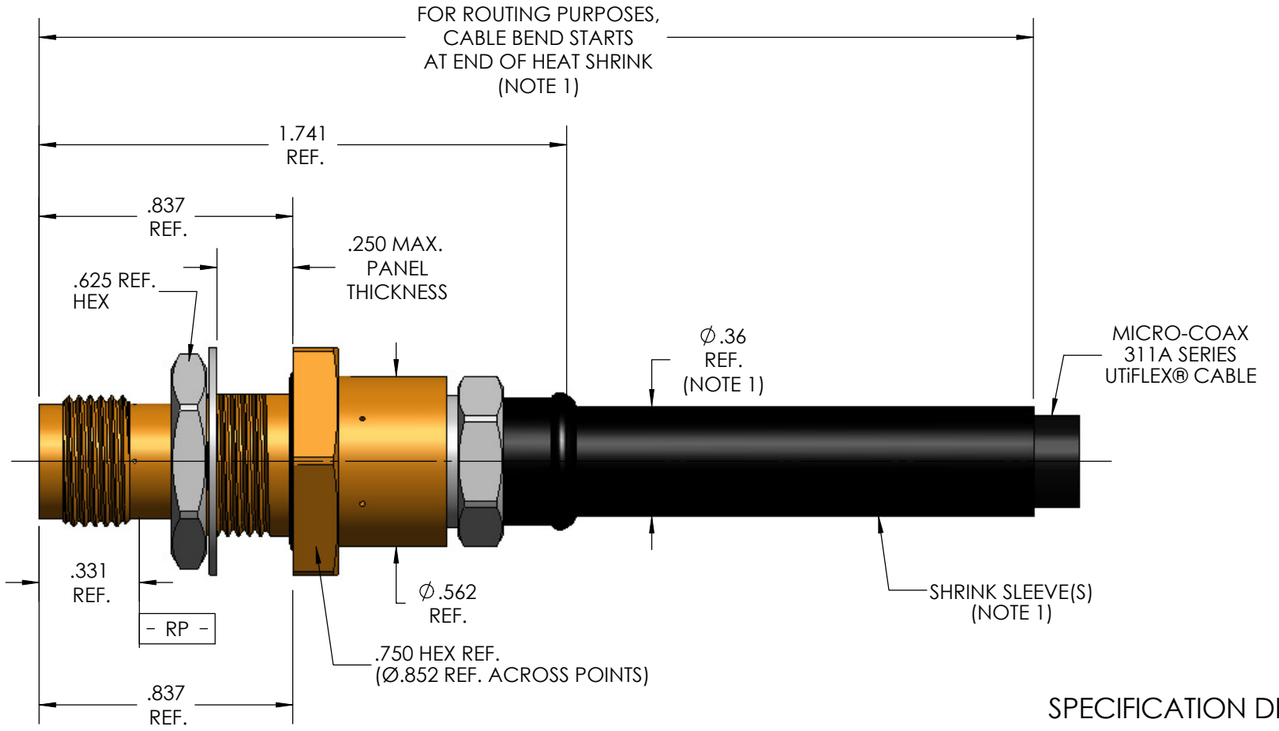
REV	DESCRIPTION	DATE	BY	APPVD	CHKD
A	INITIAL RELEASE - RDCR 77082	7/21/2008	MJM	MJR	DLA
A1	ECO 95077	02/05/09	PLM	RS	AMD
B	ECO 105720	8/31/2010	MJM	RS	CCF
B1	ECO 115143	3/10/2011	MJM	RS	CCF
B2	ECO 115403	7/11/2011	MJM	RS	CCF
B3	ECO 125614	11/19/2012	MJM	RS	CCF



VIEW A



RECOMMENDED MOUNTING HOLE



NOTE:

1. MARKER LOCATION ON THIS DRAWING IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE.
2. SEE SHEET 2 FOR HEAT SHRINK FORMED ELBOW CONFIGURATION.
3. ALL SPECIFICATIONS LISTED ON THIS DRAWING WILL ALSO APPLY TO CONNECTOR 904819-EM (EQUIPMENT MODEL).

SPECIFICATION DRAWING

	INITIALS	DATE
DWN.	MJM	11/1/07
CHKD.	CCF	11/20/12
APPVD.		

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

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

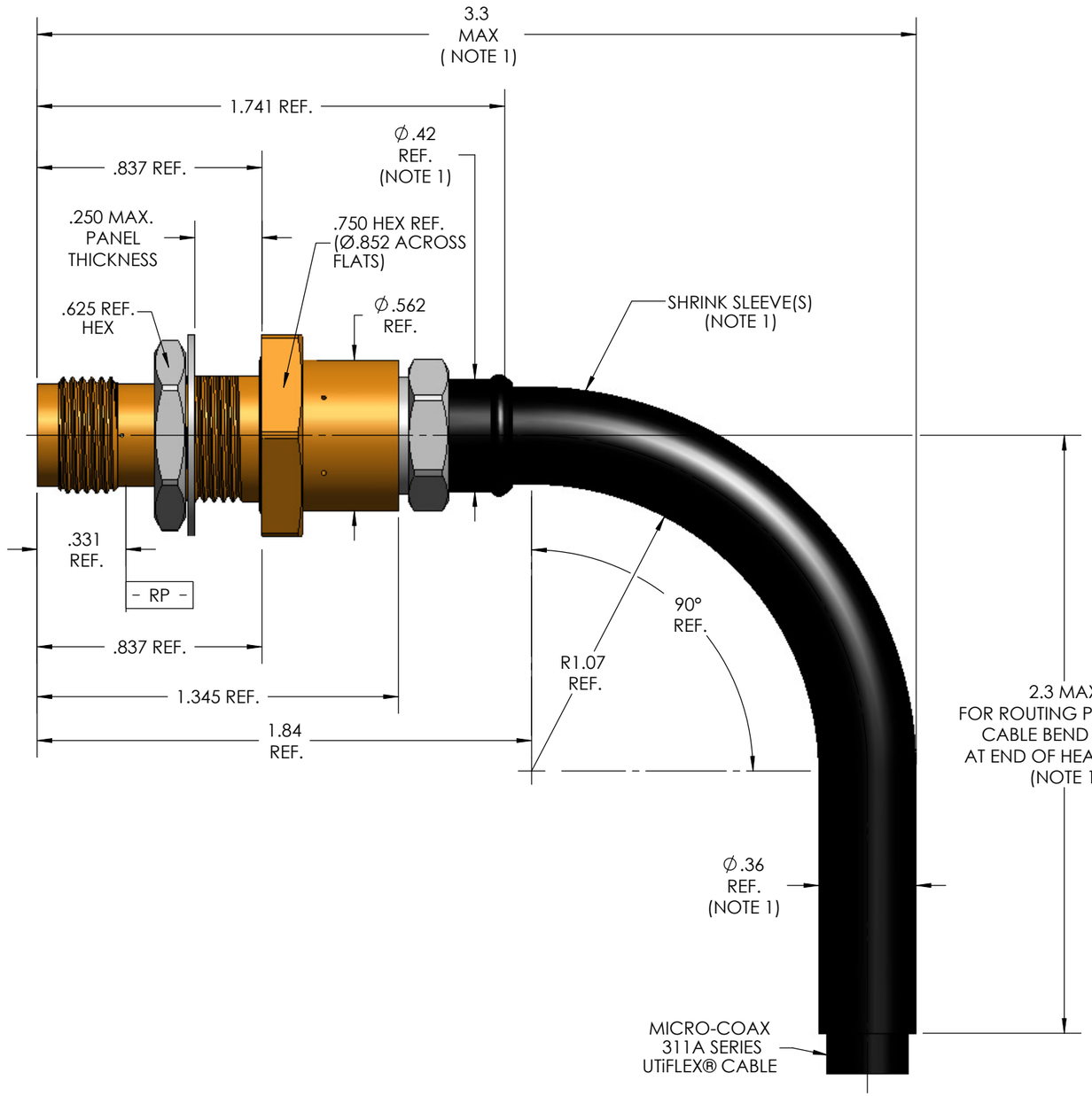
TITLE: TNC BULKHEAD JACK, 311A SERIES, HI-POWER, VENT HOLES, SPACE GRADE

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 2	SD904819	B3

THIS DRAWING IS PROPRIETARY AND CONFIDENTIAL.

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.

ALL DIMENSIONS AND TOLERANCES IN INCHES UNLESS OTHERWISE SPECIFIED.		INITIALS	DATE
		DWN. MJM	11/1/07
		CHKD. CCF	11/20/12
.XX	± .02	APPVD.	
.XXX	± .005		
.XXXX	± .0010		
ANGLES	± 2°		

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

TITLE: TNC BULKHEAD JACK, 311A SERIES, HI-POWER, VENT HOLES, HEAT SHRINK FORMED ELBOW, SPACE GRADE

FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV.
64639	B	2:1	2 OF 2	SD904819	B3