MECHANICAL CHARACTERISTICS

INTERFACE	MIL-STD-348, FIGURE 406-1
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	26.28 GRAMS NOM.
MASS WITH ARMOR CLAMP NUT AND CRIMP COLLAR - SHEET 2	40.87 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 $\sqrt{F}$ (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1800 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 3 GHz	-90 dB
CORONA	460 Vrms MIN @70,000 FEET
RF HIGH POTENTIAL	1200 Vrms MIN.
CONTACT RESISTANCE (INNER)	1.5 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	0.2 MilliOhms MAX.

ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMPERATURE	-65°C TO 165°C
VIBRATION	MIL-STD-202, METHOD 204, CONDITION B
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

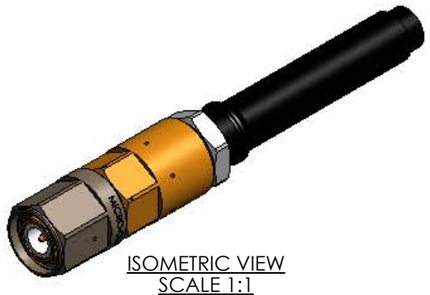
BODY, BUSHING,	BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER COPPER PLATE PER ASTM-B734.
COUPLING NUT	ALUMINUM ALLOY PER ASTM-B-221, HARD COAT ANODIZE PER MIL-A-8625 (STANDARD GRAY/BLACK COLOR)
SNAP RING	BERYLLIUM COPPER PER ASTM-B-197
CONTACT RING, CONTACT	BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290.
INSULATORS	TFE FLUOROCARBON PER ASTM-D-1710
DIELECTRIC STOPS, WASHER	POLYIMIDE, PER ASTM D-6456 (TYPE 1)
CLAMP NUT(S)	STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, PASSIVATED PER ASTM-A-967
CRIMP COLLAR	BRASS PER ASTM B16

APPLICATION

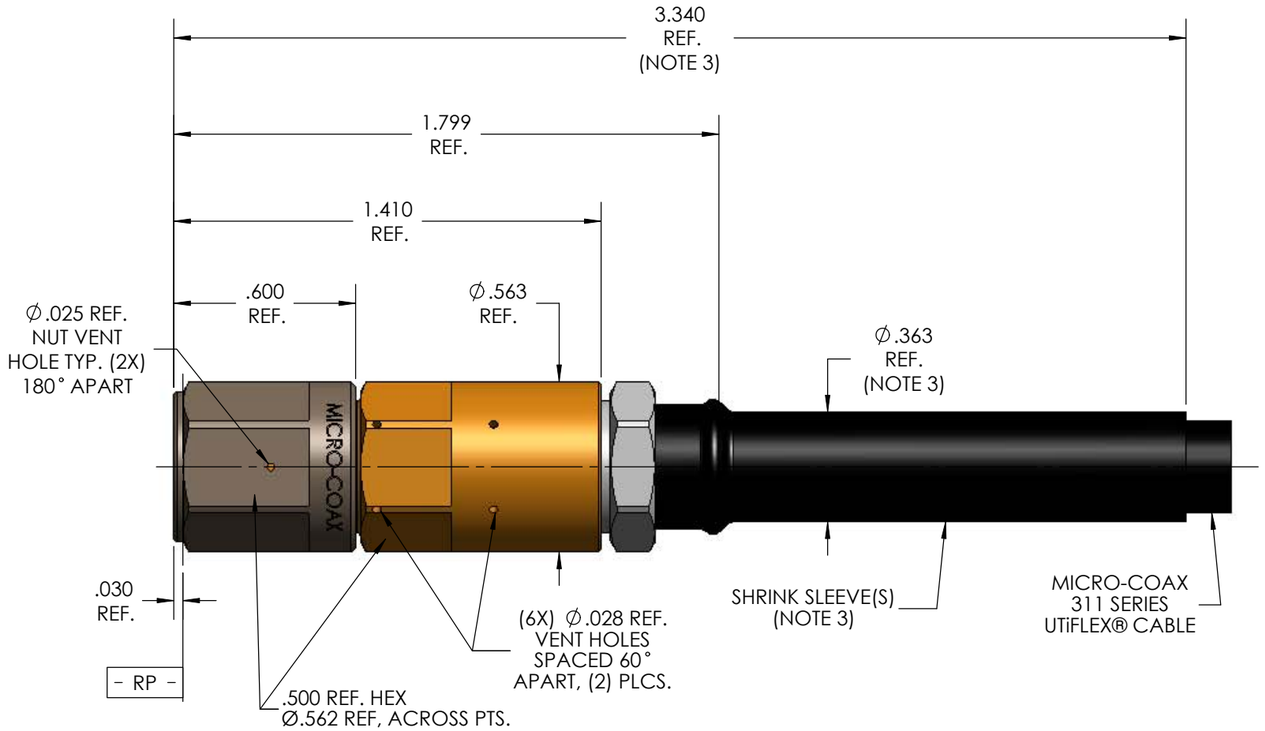
CABLE(S)	311 SERIES
INSTALLATION	PER CONFIGURATOR

THIS DRAWING IS PROPRIETARY AND CONFIDENTIAL.

REV	DESCRIPTION	DATE	BY	APPVD	CHKD
A	ECO 85453	7/23/2008	MJM	RS	NDS
B	ECO 95181	3/17/2009	MJM	RS	NDS
C	ECO 105720	8/31/2010	MJM	RS	CCF
D	ECO 115156	3/16/2011	MJM	RS	CCF
E	ECO 125345	6/25/2012	MJM	RS	CCF



ISOMETRIC VIEW
SCALE 1:1



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. SEE SHEET 2 FOR ARMOR CONFIGURATION.

SPECIFICATION DRAWING

	INITIALS	DATE
DWN.	MJM	7/23/08
CHKD.	CCF	6/28/12
APPVD.		

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

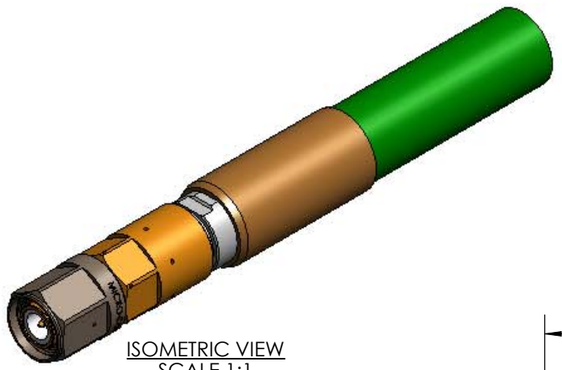
TOLERANCES UNLESS OTHEWISE SPECIFIED	
.XX	± .02
.XXX	± .005
.XXXX	± .0010
ANGLES	± 2°

TITLE: TNC PLUG, HIGH POWER, VENT HOLES, TEST & MEASUREMENT, 311X

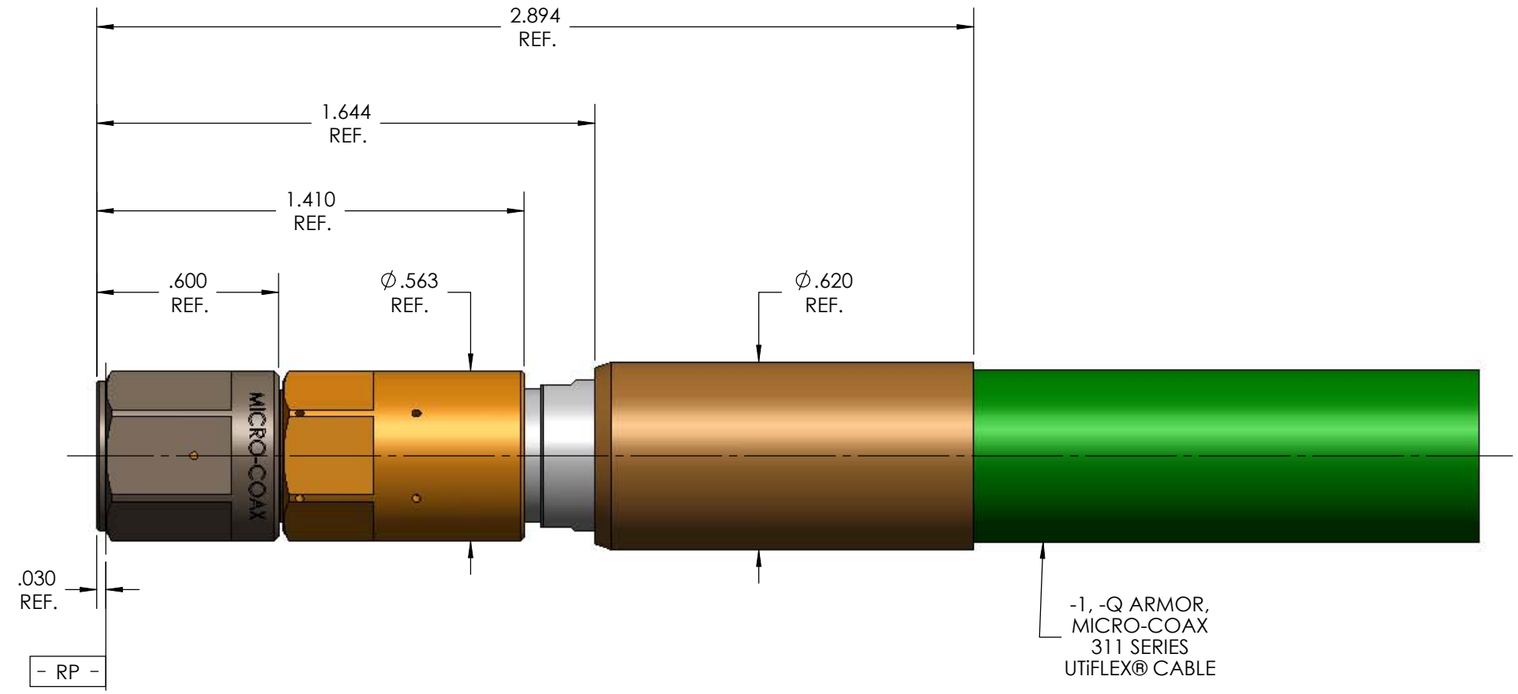
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989.

FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV
64639	B	2:1	1 OF 2	SD905002	E

DESCRIPTION
SEE SHEET 1 FOR REVISION HISTORY



ISOMETRIC VIEW
SCALE 1:1



NOTES:

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SPECIFICATION DRAWING

	INITIALS	DATE
DWN.	MJM	7/23/08
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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	2 OF 2	SD905002	E