

MECHANICAL 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	5.00 GRAMS NOM.

ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	18 GHz
VSWR DC - 8 GHz	1.15:1 MAX.
8 GHz - 15 GHz	1.20:1 MAX.
15 GHz - 18 GHz	1.25:1 MAX.
INSERTION LOSS	$0.03 \sqrt{f}$ (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1500 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB MIN.
CORONA	375 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	1000 Vrms MIN.
CONTACT RESISTANCE (INNER)	4.0 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	2.0 MilliOhms MAX.

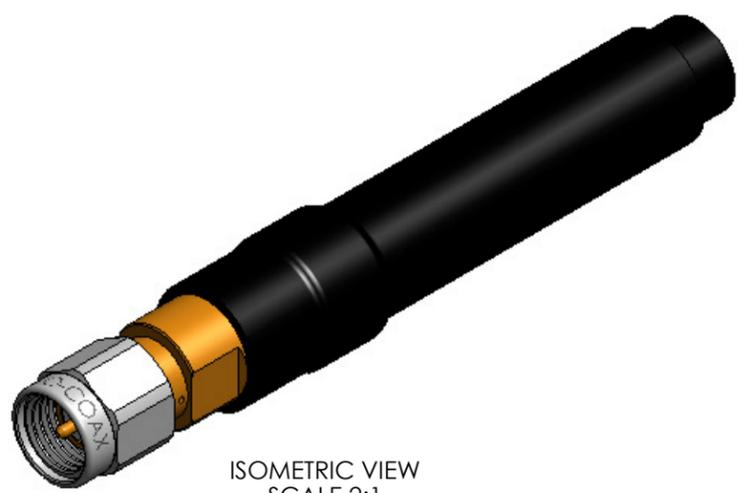
ENVIRONMENTAL CHARACTERISTICS	
OPERATING TEMPERATURE	-100 °C TO 150 °C
VIBRATION	MIL-STD-202, METHOD 204, CONDITION D
MECHANICAL SHOCK	MIL-STD-202, METHOD 213, CONDITION I
THERMAL SHOCK	MIL-STD-202, METHOD 107, CONDITION B
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%

MATERIALS AND FINISH	
COUPLING NUT	STEEL, CORROSION RESISTANT, ASTM-A-582, UNS NO. S30300, PASSIVATED PER ASTM-A-967
BODY & CONTACT	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
INSULATOR & DIELECTRIC STOP	TFE FLUOROCARBON PER ASTM-D-1710
DIELECTRIC BEAD	POLYPHENYLENE SULFIDE, PER ASTM-D-6358

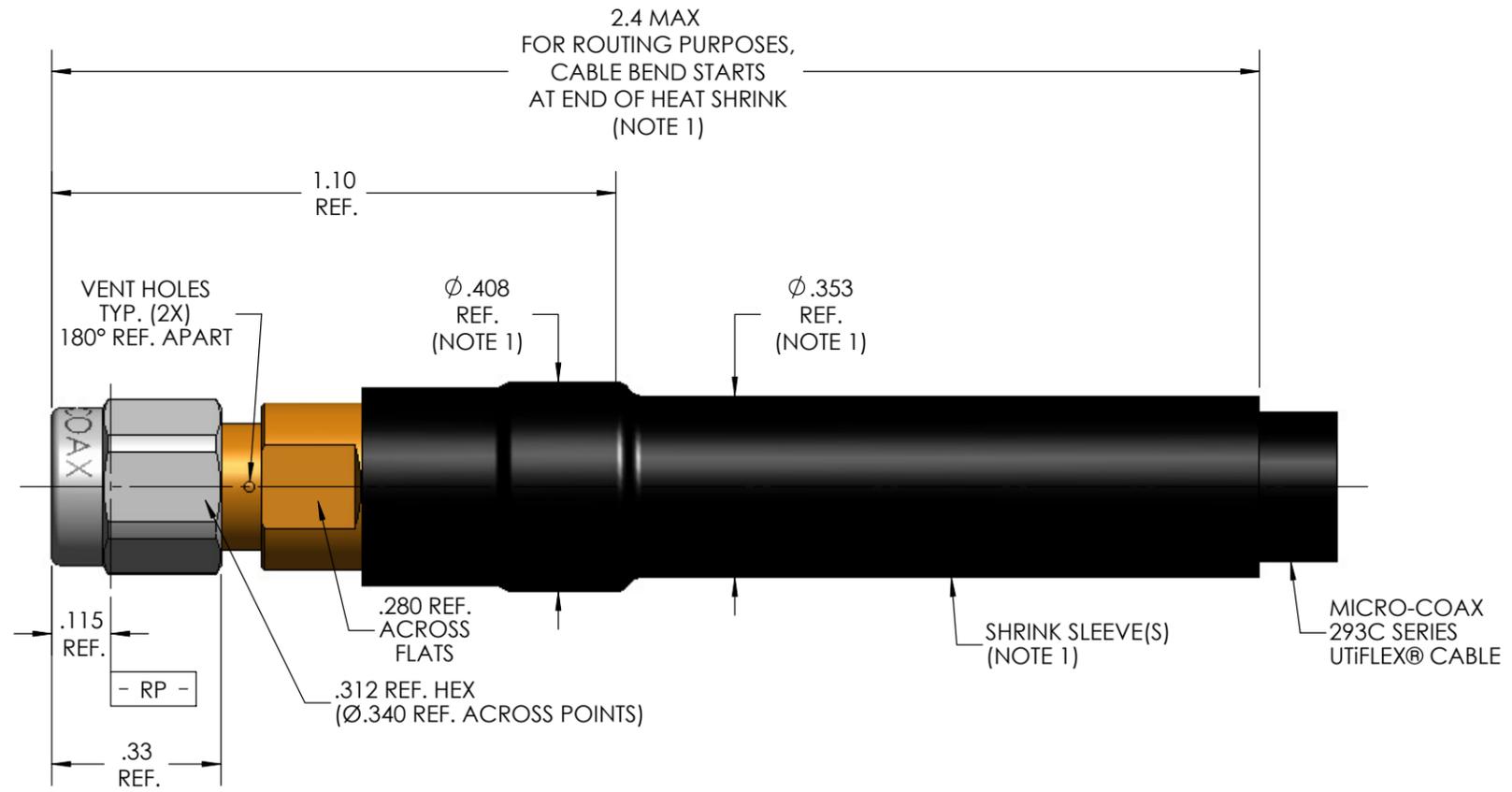
APPLICATION	
CABLE(S)	293C SERIES CABLE
INSTALLATION	PER CONFIGURATOR
CONNECTOR CODE SHEET 1	30V
CONNECTOR CODE SHEET 2	3QV

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REV.	DESCRIPTION	DATE	BY	APPVD
A	RDCR 67027	8/30/2006	JMK	RDS
B	ECO 115360	6/20/2011	MJM	RS
C	ECO 135090	2/21/2013	MJM	RS
C1	ECO 135510	10/24/2013	MJM	RS



ISOMETRIC VIEW
SCALE 2:1

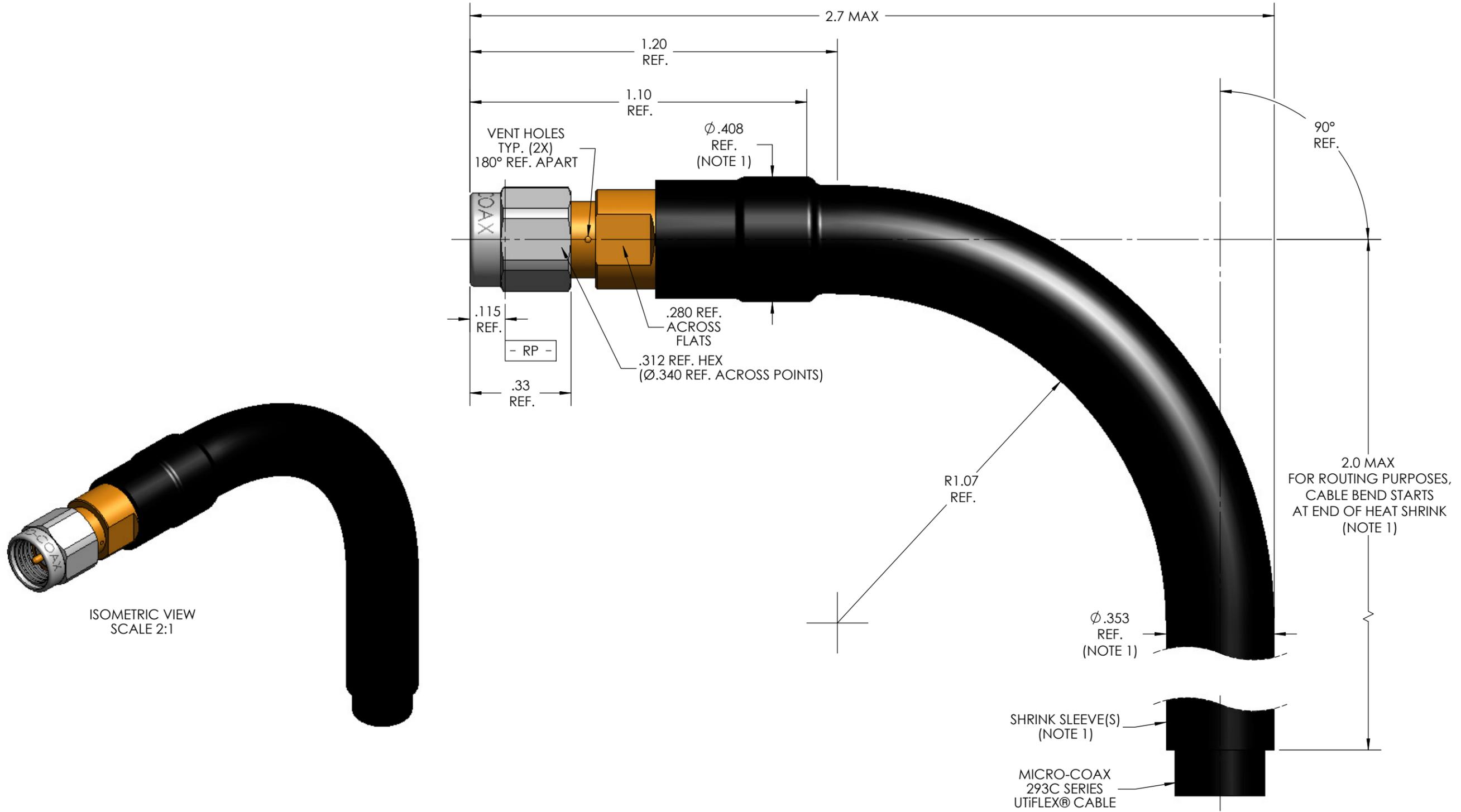


NOTE:

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 904473-EM (EQUIPMENT MODEL).
3. SEE SHEET 2 FOR HEAT SHRINK FORMED ELBOW CONFIGURATION.

SPECIFICATION DRAWING

THIS SPECIFICATION IS THE PROPERTY OF MICRO-COAX, INC. AND MAY NOT BE USED OR COPIED WITHOUT THE EXPRESS WRITTEN PERMISSION OF MICRO-COAX, INC.	INITIALS		DATE		
	DWN.	JMK	12/12/05		
	CHKD.	CCF	6/21/11		
	APPVD.				
TOLERANCES UNLESS OTHERWISE SPECIFIED			TITLE SMA PLUG, 293C SERIES, LIGHT WEIGHT, VENTED, SPACE GRADE		
.XX	± .02	ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989.			
.XXX	± .005				
.XXXX	± .0010				
ANGLES	± 2°				
FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV
64639	B	3:1	1 OF 2	SD904473	C1



ISOMETRIC VIEW
SCALE 2:1

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ALL DIMENSIONS AND TOLERANCES IN INCHES UNLESS OTHERWISE SPECIFIED.	INITIALS		DATE		
	DWN.	JMK	12/12/05		
	CHKD.	CCF	6/21/11		
	APPVD.				
.XX	± .02	TITLE			SMA PLUG, 293C SERIES, HEAT SHRINK FORMED ELBOW, LIGHT WEIGHT, VENTED, SPACE GRADE
.XXX	± .005	FSCM NO.	SIZE	SCALE	
.XXXX	± .0010	64639	B	3:1	
ANGLES	± 2°	SHEET NO.	DRAWING NO.	REV.	
		2 OF 2	SD904473	C1	