

MECHANICAL CHARACTERISTICS

INTERFACE	MIL-STD-348, FIGURE 310-1
IN ACCORDANCE WITH THE INTENT OF SLANT SHEET	MIL-PRF-39012/56 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. MIN.
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	8.84 GRAMS NOM.

ELECTRICAL CHARACTERISTICS

IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	18 GHz
VSWR DC - 12.4 GHz	1.12:1 MAX.
12.4 - 18 GHz	1.16:1 MAX.
INSERTION LOSS	0.04 \sqrt{f} (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1325 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB MIN.
CORONA	340 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	875 Vrms MIN.
CONTACT RESISTANCE (INNER)	4.0 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	2.0 MilliOhms MAX.

ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMPERATURE	-62°C TO 165°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%
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106, (NO VIBRATION)

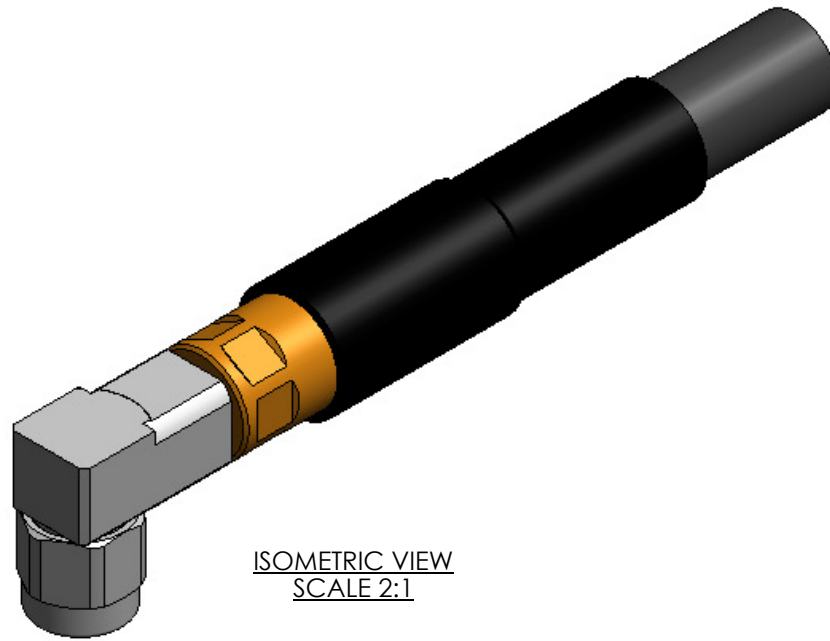
MATERIALS AND FINISH

BODY, COUPLING NUT	STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967
CONTACTS, REAR BODY	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
DIELECTRIC BEAD, DIELECTRIC STOP	POLYETHERMIDE THERMOPLASTIC PER ASTM-D-5205
INSULATOR(S)	TFE FLUOROCARBON PER ASTM-D-1710
GASKET	SILICONE RUBBER PER ZZ-R-765

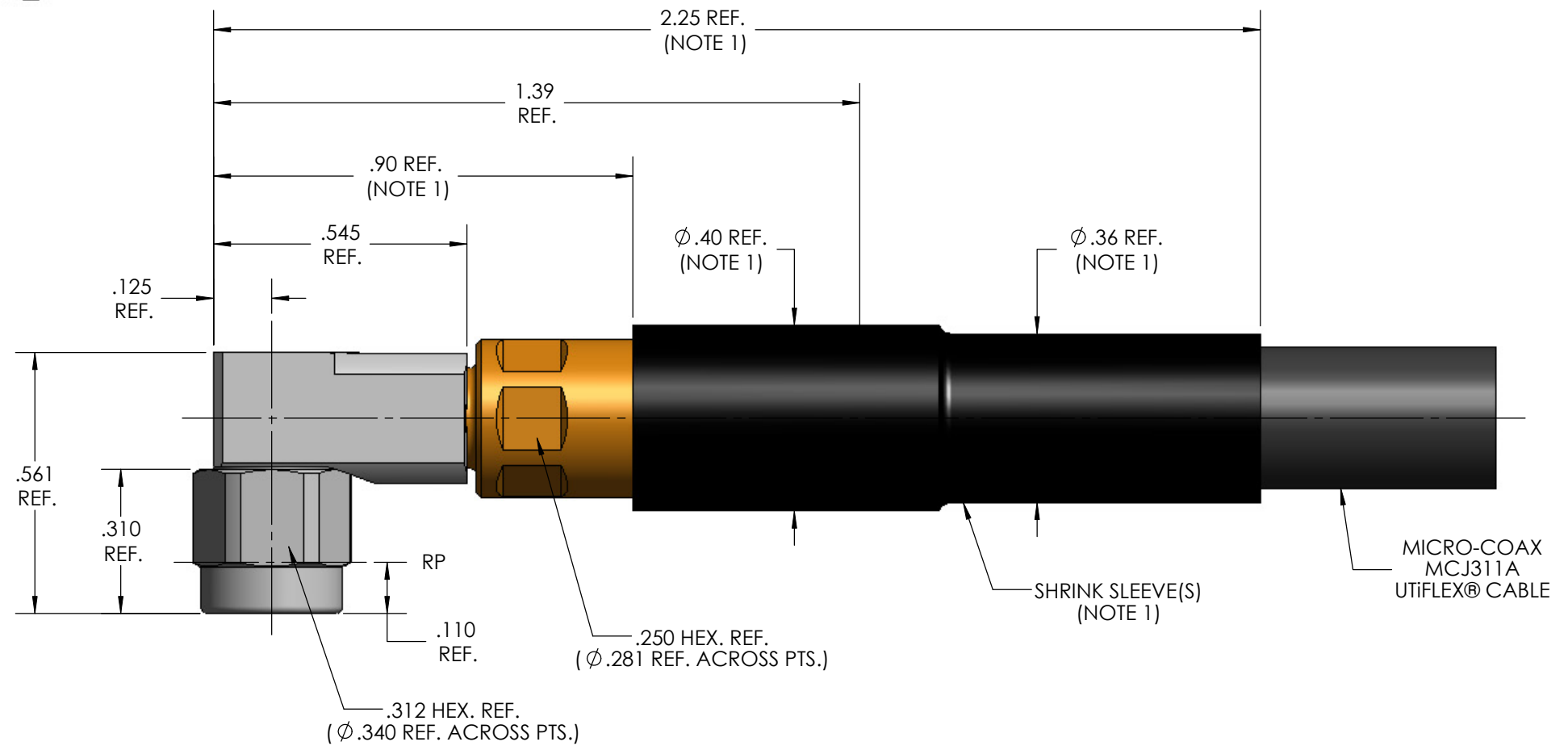
APPLICATION

CABLE(S)	311 SERIES CABLE
INSTALLATION	PER CONFIGURATOR

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ISOMETRIC VIEW
SCALE 2:1



REV.	DESCRIPTION	DATE	BY	APPVD
A	ECO 75247	4/18/2007	MJM	RS
B	ECO 85705	11/24/2008	MJM	RS
B1	ECO 105670	08/18/10	PLM	RS
C	ECO 135231	4/25/2013	MJM	RS

NOTE:

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

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	DWN. RDM	9/10/03					
	CHKD. CCF	4/29/13					
	APPVD.						
TOLERANCES UNLESS OTHERWISE SPECIFIED	TITLE						
.XX ± .02	SMA PLUG, MITER RIGHT ANGLE, 311 SERIES CABLE						
.XXX ± .005	ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989.						
.XXXX ± .0010	FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV	
ANGLES ± 2°	64639	B	3:1	1 OF 1	SD903672	C	