

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	15 LBS. MIN.
MASS	6.79 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	900 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB MIN.
CORONA	230 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	600 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, CONDITION (NO VIBRATION)

MATERIALS AND FINISH

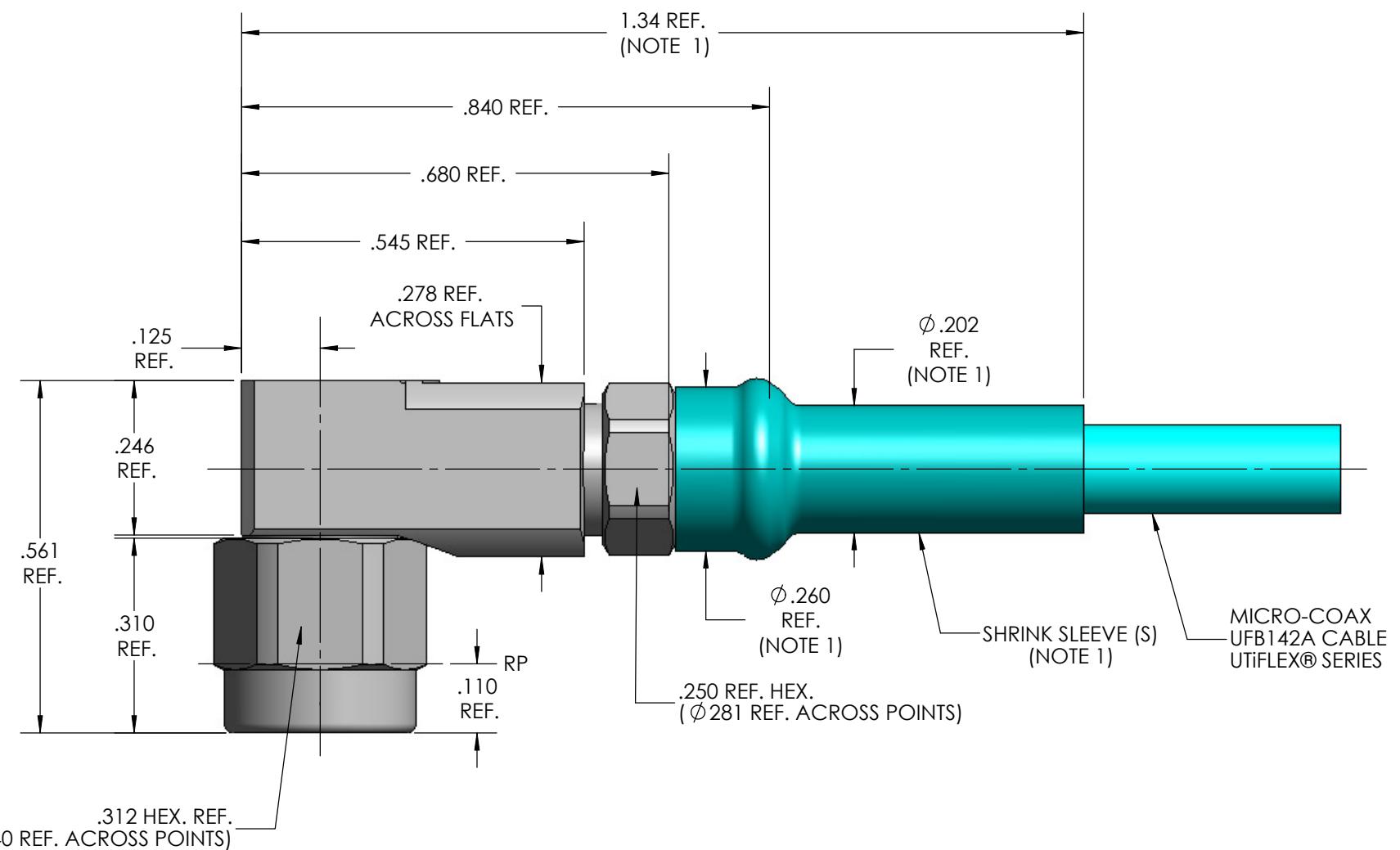
BODY, CLAMP NUT, & COUPLING NUT	STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967
CONTACT	BERYLLIUM COPPER, ASTM-B-196, GOLD PLATED PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290
CONTACT RING	BRASS, PER ASTM-B-16, GOLD PLATE PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290
SNAP RING	BERYLLIUM COPPER, PER ASTM-B-197
INSULATORS	TFE FLUOROCARBON PER ASTM-D-1710
GASKET	SILICONE RUBBER PER ZZ-R-765

APPLICATION

CABLE(S)	UFB142A
INSTALLATION	PER CONFIGURATOR

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REV.	DESCRIPTION	DATE	BY	APPVD
A	INITIAL RELEASE	07/21/03	RDM	RDS
B	ECO 45013	01/09/04	RDM	RDS
B1	ECO 45464	08/31/04	PLM	MJK
C	REVISED DIMENSIONS AND NOTES	10/11/04	SRS	LXT
D	ECO 65491	4/19/2007	MPK	RS
D1	ECO 85632	11/25/2008	MJM	RS
E	ECO 135237	4/30/2013	MJM	RS



NOTE:

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DWN.	RDM	6/9/03
CHKD.	CCF	5/3/13
APPVD.		
TOLERANCES UNLESS OTHERWISE SPECIFIED		TITLE
.XX	± .02	SMA PLUG, MITER RIGHT ANGLE, UFB142A CABLE
XXX	± .005	ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.
XXXX	± .0010	SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989.
ANGLES	± 2°	FSCM NO. 64639
		SIZE B
		SCALE 4:1
		SHEET NO. 1 OF 1
		DRAWING NO. SD903873
		REV. E

SPECIFICATION DRAWING

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