CONTROL DRAWING

minibend R-XX

V

ASTROLAB PART NUMBER	DIMENSION "L"	2.0 GHz		12.4 GHz		18.0 GHz		24.0 GHz	
		VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB
minibend R-2.5	2.50 [63.5]	1.20:1	0.18	1.25:1	0.36	1.37:1	0.50	1.45:1	0.57
minibend R-3	3.00 [76.2]	1.20:1	0.19	1.25:1	0.40	1.37:1	0.55	1.45:1	0.64
minibend R-3.5	3.50 [88.9]	1.20:1	0.21	1.25:1	0.44	1.37:1	0.60	1.45:1	0.70
minibend R-4	4.00 [101.6]	1.20:1	0.23	1.25:1	0.48	1.37:1	0.65	1.45:1	0.75
minibend R-4.5	4.50 [114.3]	1.20:1	0.24	1.25:1	0.54	1.37:1	0.70	1.45:1	0.82
minibend R-5	5.00 [127.0]	1.20:1	0.26	1.25:1	0.57	1.37:1	0.75	1.45:1	0.87
minibend R-5.5	5.50 [139.7]	1.20:1	0.27	1.25:1	0.62	1.37:1	0.80	1.45:1	0.93
minibend R-6	6.00 [152.4]	1.20:1	0.29	1.25:1	0.65	1.37:1	0.85	1.45:1	0.99
minibend R-6.5	6.50 [165.1]	1.20:1	0.30	1.25:1	0.70	1.37:1	0.90	1.45:1	1.04
minibend R-7	7.00 [177.8]	1.20:1	0.32	1.25:1	0.74	1.37:1	0.95	1.45:1	1.10
minibend R-8	8.00 [203.2]	1.20:1	0.35	1.25:1	0.82	1.37:1	1.05	1.45:1	1.22
minibend R-9	9.00 [228.6]	1.20:1	0.38	1.25:1	0.91	1.37:1	1.15	1.45:1	1.35
minibend R-10	10.00 [254.0]	1.20:1	0.41	1.25:1	0.98	1.37:1	1.24	1.45:1	1.46
minibend R-11	11.00 [279.4]	1.20:1	0.44	1.25:1	1.07	1.37:1	1.34	1.45:1	1.58
minibend R-12	12.00 [304.8]	1.20:1	0.47	1.25:1	1.15	1.37:1	1.42	1.45:1	1.68
minibend R-13	13.00 [330.2]	1.20:1	0.50	1.25:1	1.23	1.37:1	1.53	1.45:1	1.81
minibend R-14	14.00 [355.6]	1.20:1	0.53	1.25:1	1.30	1.37:1	1.62	1.45:1	1.92
minibend R-15	15.00 [381.0]	1.20:1	0.57	1.25:1	1.40	1.37:1	1.73	1.45:1	2.04
minibend R-16	16.00 [406.4]	1.20:1	0.60	1.25:1	1.47	1.37:1	1.82	1.45:1	2.15
minibend R-									

NOTES:

1. DESCRIPTION,
   CABLE ASSEMBLY, SMA PLUG TO SMA PLUG,
   minibend R IS A RUGGEDIZED VERSION OF THE STANDARD minibend THAT IS SUITABLE FOR COMPLEX, CONGESTED INSTALLATIONS.
   WHEN INSTALLED AND BEND AT THE MINIMUM BEND RADIUS, minibend R WILL TOLERATE MULTIPLE ±90° ROTATIONS AT THE CABLE CONNECTOR JUNCTION.

2. CABLE,
   COAXIAL CABLE ASTROLAB P/N 32081E
   MEETS OR EXCEEDS MIL-DTL-17
   SEE ASTROLAB CONTROL DRAWING FOR MATERIALS AND FINISHES.

3. CONNECTOR -A-, SMA PLUG:
   ASTROLAB P/N 29094CR-32-81
   IAW MIL-STD-348.
   SEE ASTROLAB CONTROL DRAWING FOR MATERIALS AND FINISHES.

4. CONNECTOR -B-, SMA PLUG:
   SAME AS CONNECTOR -A-.

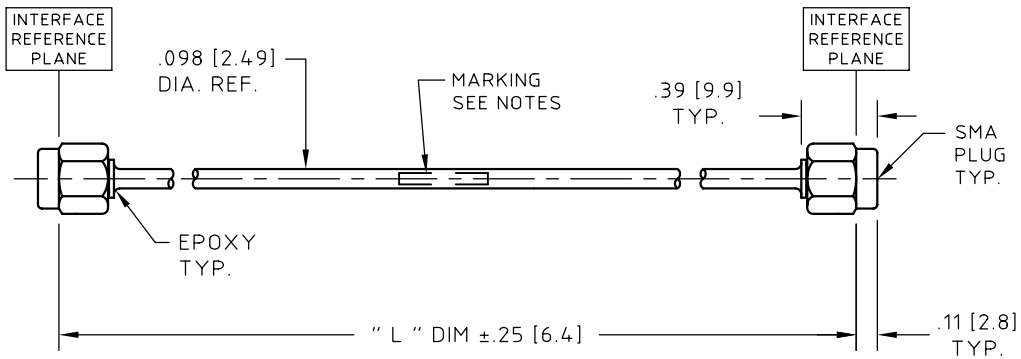
NOTES CONTINUED:

5. MARKING APPROXIMATELY CENTERED DIRECTLY ON CABLE AS FOLLOWS:
   "minibend R-XX YYWW"
   WHERE "XX" DENOTES THE LENGTH OF THE CABLE ASSEMBLY, AND "YYWW" THE DATE CODE.
   NO MARKING ON CABLE ASSEMBLIES SHORTER THAN 3.0"
   MARKING ON PACKING ONLY.

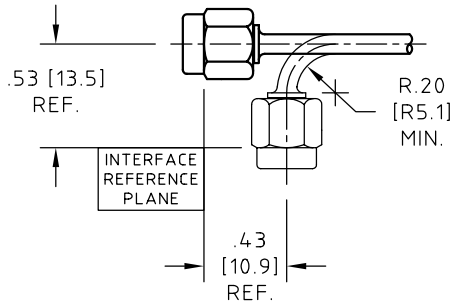
6. ELECTRICAL CHARACTERISTICS:
   IMPEDANCE,
   50.0 Ohms NOMINAL.
   FREQUENCY, INSERTION LOSS AND VSWR, SEE CHART.

7. MECHANICAL:
   OPERATING TEMPERATURE RANGE,
   -55° C TO +125° C.
   MECHANICAL PERFORMANCE,
   GUARANTEED 25.0 LBS. [111.2 N] PULL FORCE

ROHS 5/6 COMPLIANT



SHOWN BELOW IS TYPICAL INSTALLATION.



	NAME	DATE
PREP.	E H.	03/14/00
ELEC.	R.F.	03/14/00
MECH.	D.P.D.	03/14/00
Q.C.		

UNLESS OTHERWISE SPECIFIED CONCENTRICITY .004 T.I.R. CORNERS AND FILLETS .005 MAX. RADIUS OR CHAMFER. SURFACE FINISH 63 RMS MICROINCHES OR BETTER.

FRACTIONS	± 1/16
X	± .030
XX	± .015
XXX	± .005
ANGLES	± 1°

DO NOT SCALE DRAWING

THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28.

TITLE
CABLE ASSEMBLY, SMA PLUG TO SMA PLUG, RUGGEDIZED

SCALE	CODE IDENT.	DWG NO.	REV
1:1	16301	minibend R-XX	V

REV.	DESCRIPTION	DATE	BY	APPROVED
V	ECN No. 13771	02/23/11	EF	