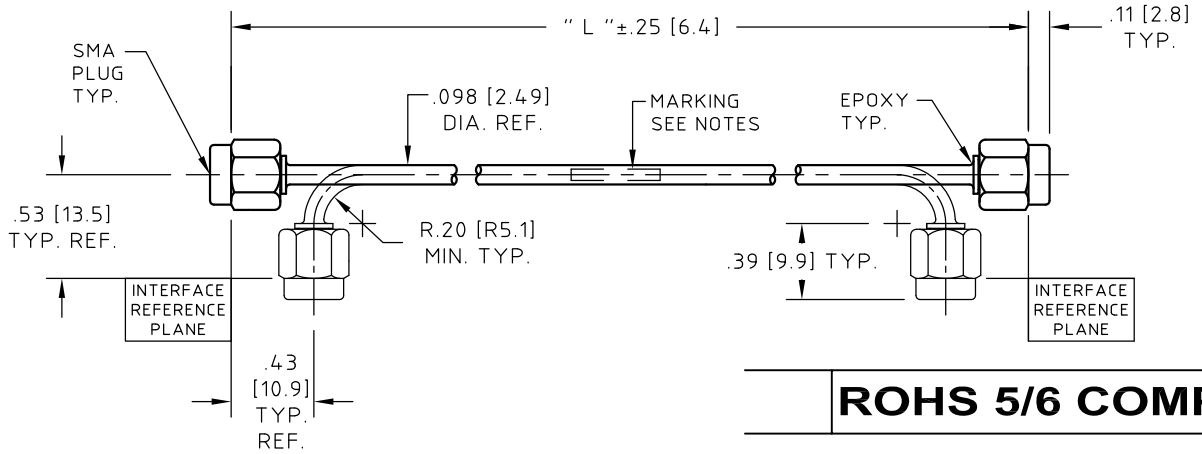
CONTROL DRAWING

minibend R-XX

AB



ROHS 5/6 COMPLIANT

HUBER+SUHNER 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	1.35:1	0.50	1.40:1	0.57
minibend R-3	3.00 [76.2]	1.20:1	0.19	1.25:1	0.40	1.35:1	0.55	1.40:1	0.64
minibend R-3.5	3.50 [88.9]	1.20:1	0.21	1.25:1	0.44	1.35:1	0.60	1.40:1	0.70
minibend R-4	4.00 [101.6]	1.20:1	0.23	1.25:1	0.48	1.35:1	0.65	1.40:1	0.75
minibend R-4.5	4.50 [114.3]	1.20:1	0.24	1.25:1	0.54	1.35:1	0.70	1.40:1	0.82
minibend R-5	5.00 [127.0]	1.20:1	0.26	1.25:1	0.57	1.35:1	0.75	1.40:1	0.87
minibend R-5.5	5.50 [139.7]	1.20:1	0.27	1.25:1	0.62	1.35:1	0.80	1.40:1	0.93
minibend R-6	6.00 [152.4]	1.20:1	0.29	1.25:1	0.65	1.35:1	0.85	1.40:1	0.99
minibend R-6.5	6.50 [165.1]	1.20:1	0.30	1.25:1	0.70	1.35:1	0.90	1.40:1	1.04
minibend R-7	7.00 [177.8]	1.20:1	0.32	1.25:1	0.74	1.35:1	0.95	1.40:1	1.10
minibend R-8	8.00 [203.2]	1.20:1	0.35	1.25:1	0.82	1.35:1	1.05	1.40:1	1.22
minibend R-9	9.00 [228.6]	1.20:1	0.38	1.25:1	0.91	1.35:1	1.15	1.40:1	1.35
minibend R-10	10.00 [254.0]	1.20:1	0.41	1.25:1	0.98	1.35:1	1.24	1.40:1	1.46
minibend R-11	11.00 [279.4]	1.20:1	0.44	1.25:1	1.07	1.35:1	1.34	1.40:1	1.58
minibend R-12	12.00 [304.8]	1.20:1	0.47	1.25:1	1.15	1.35:1	1.42	1.40:1	1.68
minibend R-13	13.00 [330.2]	1.20:1	0.50	1.25:1	1.23	1.35:1	1.53	1.40:1	1.81
minibend R-14	14.00 [355.6]	1.20:1	0.53	1.25:1	1.30	1.35:1	1.62	1.40:1	1.92
minibend R-15	15.00 [381.0]	1.20:1	0.57	1.25:1	1.40	1.35:1	1.73	1.40:1	2.04
minibend R-16	16.00 [406.4]	1.20:1	0.60	1.25:1	1.47	1.35:1	1.82	1.40:1	2.15
minibend R-17	17.00 [431.8]	1.20:1	0.63	1.25:1	1.56	1.35:1	1.95	1.40:1	2.26
minibend R-18	18.00 [457.2]	1.20:1	0.66	1.25:1	1.64	1.35:1	2.05	1.40:1	2.38
minibend R-19	19.00 [482.6]	1.20:1	0.69	1.25:1	1.72	1.35:1	2.15	1.40:1	2.49
minibend R-20	20.00 [508.0]	1.20:1	0.72	1.25:1	1.80	1.35:1	2.25	1.40:1	2.61
minibend R-		1.20:1		1.25:1		1.35:1		1.40:1	

SEE NOTE 8

NOTES:

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

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

3. CONNECTOR -A-, SMA PLUG:
   HUBER+SUHNER Astrolab P/N 29094CR-32-81
   INTERFACE DIMENSIONS IAW MIL-STD-348.
   SEE HUBER+SUHNER Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.

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

NOTES CONTINUED:

5. MARKING:
   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 FOR DATE OF MANUFACTURE.
   NO MARKING ON CABLE ASSEMBLIES SHORTER THAN 3.00 [76.2].
   MARKING ON PACKAGING 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,
   PULL STRENGTH TO 25.0 LBS. [111.2 N].

8. ATTENUATION FORMULAS:
   8A. CALCULATE AT 18.0 GHz
   (dB) = 1.20 dB/FT. X L(ft.)+.25 dB
   8B. CALCULATE AT 24.0 GHz
   (dB) = 1.39 dB/FT. X L(ft.)+.29 dB

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

HUBER+SUHNER Astrolab

THIS DRAWING CONTAINS PATENTABLE AND PROPRIETARY INFORMATION. THE DESIGN CANNOT BE USED WITHOUT WRITTEN PERMISSION OF HUBER + SUHNER ASTROLAB.

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	

TITLE

CABLE ASSEMBLY, SMA PLUG TO SMA PLUG, RUGGEDIZED

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

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

REV.	DESCRIPTION	DATE	BY	APPROVED
AB	ECN No. 15486	04/10/13	EB	