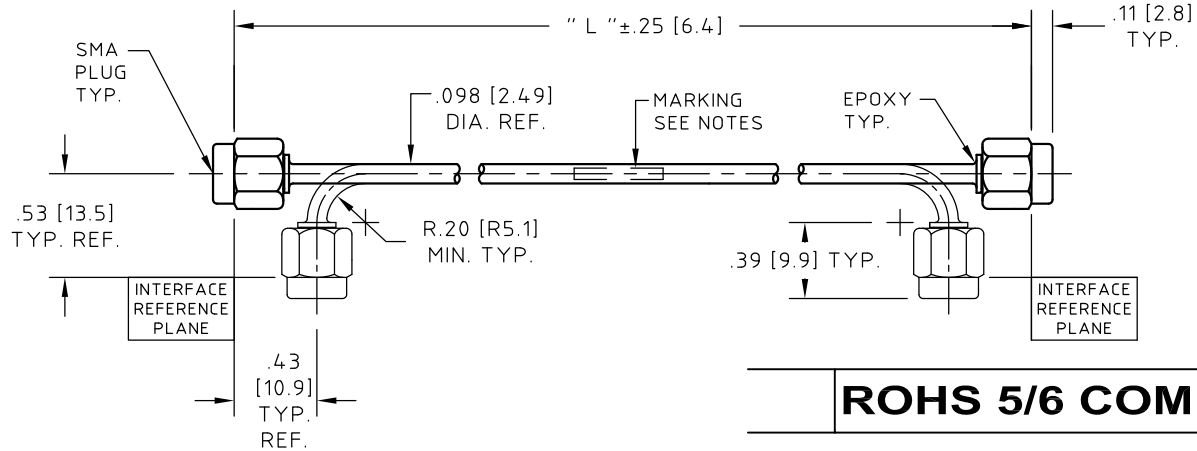


CONTROL DRAWING

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:

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

NOTES CONTINUED:

- 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.
- ELECTRICAL CHARACTERISTICS:
IMPEDANCE,
50.0 Ohms NOMINAL.
FREQUENCY, INSERTION LOSS AND VSWR,
SEE CHART.
- MECHANICAL:
OPERATING TEMPERATURE RANGE,
-55° C TO +125° C.
MECHANICAL PERFORMANCE,
PULL STRENGTH TO 25.0 LBS. [111.2 N].
- 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

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	

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

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

TITLE CABLE ASSEMBLY, SMA PLUG TO SMA PLUG, RUGGEDIZED		SCALE 1:1	CODE IDENT. 16301	DWG NO. minibend R-XX	REV AB
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AB	ECN No. 15486	04/10/13	EB	
REV.	DESCRIPTION	DATE	BY	APPROVED