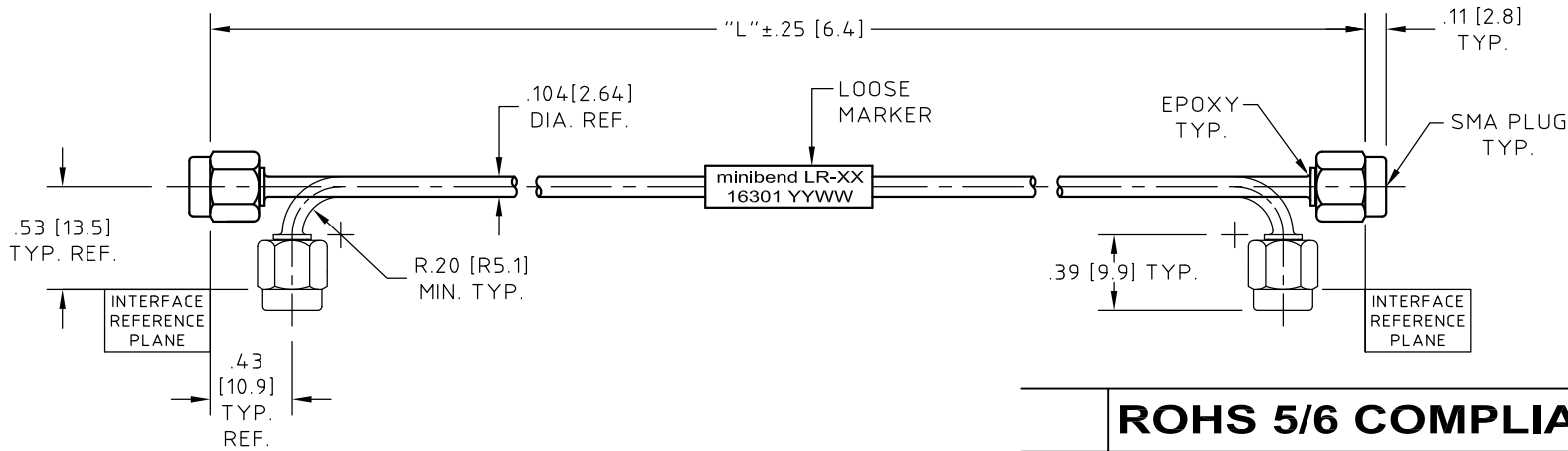


# CONTROL DRAWING

minibend LR-XX

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**ROHS 5/6 COMPLIANT**

HUBER+SUHNER Astrolab PART NUMBER	DIMENSION "L"	1.0 GHz		12.4 GHz		18.0 GHz		26.5 GHz	
		VSWR	IL. dB	VSWR	IL. dB	VSWR	IL. dB	VSWR	IL. dB
minibend LR-2.5	2.50 [63.5]	1.16:1	0.13	1.25:1	0.33	1.35:1	0.44	1.40:1	0.54
minibend LR-3	3.00 [76.2]	1.16:1	0.14	1.25:1	0.36	1.35:1	0.47	1.40:1	0.58
minibend LR-3.5	3.50 [88.9]	1.16:1	0.15	1.25:1	0.39	1.35:1	0.51	1.40:1	0.63
minibend LR-4	4.00 [101.6]	1.16:1	0.16	1.25:1	0.42	1.35:1	0.54	1.40:1	0.67
minibend LR-4.5	4.50 [114.3]	1.16:1	0.17	1.25:1	0.45	1.35:1	0.58	1.40:1	0.72
minibend LR-5	5.00 [127.0]	1.16:1	0.18	1.25:1	0.48	1.35:1	0.62	1.40:1	0.76
minibend LR-5.5	5.50 [139.7]	1.16:1	0.19	1.25:1	0.51	1.35:1	0.65	1.40:1	0.80
minibend LR-6	6.00 [152.4]	1.16:1	0.20	1.25:1	0.54	1.35:1	0.69	1.40:1	0.85
minibend LR-6.5	6.50 [165.1]	1.16:1	0.21	1.25:1	0.57	1.35:1	0.72	1.40:1	0.89
minibend LR-7	7.00 [177.8]	1.16:1	0.22	1.25:1	0.60	1.35:1	0.76	1.40:1	0.94
minibend LR-8	8.00 [203.2]	1.16:1	0.25	1.25:1	0.66	1.35:1	0.84	1.40:1	1.03
minibend LR-9	9.00 [228.6]	1.16:1	0.26	1.25:1	0.73	1.35:1	0.91	1.40:1	1.12
minibend LR-10	10.00 [254.0]	1.16:1	0.26	1.25:1	0.79	1.35:1	0.98	1.40:1	1.21
minibend LR-11	11.00 [279.4]	1.16:1	0.30	1.25:1	0.85	1.35:1	1.06	1.40:1	1.30
minibend LR-12	12.00 [304.8]	1.16:1	0.31	1.25:1	0.91	1.35:1	1.13	1.40:1	1.39
minibend LR-13	13.00 [330.2]	1.16:1	0.33	1.25:1	0.97	1.35:1	1.20	1.40:1	1.48
minibend LR-14	14.00 [355.6]	1.16:1	0.35	1.25:1	1.03	1.35:1	1.28	1.40:1	1.57
minibend LR-15	15.00 [381.0]	1.16:1	0.37	1.25:1	1.10	1.35:1	1.35	1.40:1	1.66
minibend LR-16	16.00 [406.4]	1.16:1	0.39	1.25:1	1.17	1.35:1	1.42	1.40:1	1.75
minibend LR-		1.16:1		1.25:1		1.35:1		1.40:1	

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 32024E  
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-32-24  
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:  
LOOSE FITTING WHITE SLEEVING CAPTIVATED  
ON THE CABLE ASSEMBLY.  
MARKING INCLUDES THE HUBER+SUHNER Astrolab  
PART NUMBER, CAGE CODE AND THE DATE  
CODE FOR DATE OF MANUFACTURE.  
OTHER MARKING AS DEFINED BY CUSTOMER.  
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.  
PULL STRENGTH TO 25.0 LBS [111.2 N].
- ATTENUATION FORMULAS:  
8A. CALCULATE AT 18.0 GHz  
(dB) = .88 dB/FT. X L(ft.)+.25 dB  
8B. CALCULATE AT 26.5 GHz  
(dB) = 1.08 dB/FT. X L(ft.)+.31 dB

SEE NOTE 8

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. IS	07/12/01
ELEC.	
MECH.	
Q.C.	

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

TITLE <b>CABLE ASSEMBLY, minibend L TYPE, SMA PLUG TO SMA PLUG, RUGGEDIZED</b>				
THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28.	SCALE 1:1	CODE IDENT. 16301	DWG NO. minibend LR-XX	REV T

T	ECN No. 15523	05/10/13	EB	
REV.	DESCRIPTION	DATE	BY	APPROVED