

Astrolab minibend L-4

Microwave Cable Assembly (Pack of 3)



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High performance, low loss, phase stable

also available as an 'R' ruggedized assembly



The low loss version of the original minibend®

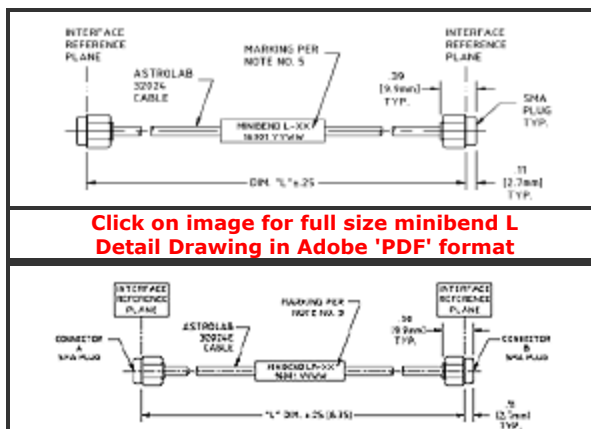
Product Description

minibend® L is an enhanced, low loss version of the minibend flexible coaxial cable assembly which is designed for use in low profile, internal, point-to-point interconnections between RF modules within communications systems. minibend® L replaces small custom semi-rigid cable with standard flexible cables eliminating the need for predefined custom lengths and bend configurations. minibend® L provides you with a preassembled and tested high performance, cost effective alternative in a variety of standard lengths.

Product Features

- Microporous dielectric for insertion loss lower than .086" semi-rigid cable.
- Precision stainless steel SMA plug connectors (Patented - US Patent Office)
- Stock delivery on standard lengths
- 99.9% lead free
- Eliminates need for costly right angle connectors
- Guaranteed 15 lbs. pull force
- Triple shielded for high isolation
- Frequency range up to 26.5 GHz
- Low Cost

Also available in LA (with SSMA plug connectors, 26.5 GHz), LS (with SMA plug/SMP socket connectors, 18 GHz) and L2S (with SMP socket connectors, 18 GHz) versions.



Electrical Specifications:

Assembly No.	Ref. No.	DIM. " L"	1.0 GHz VSWR	1.0 GHz LOSS, dB	12.4 GHz VSWR	12.4 GHz LOSS, dB	18.0 GHz VSWR	18.0 GHz LOSS, dB	26.5 GHz VSWR	26.5 GHz LOSS, dB
minibend L-2.5	32024-2-29094C-2.5	2.50 (63.5)	1.16:1	0.13	1.25:1	0.33	1.37:1	0.44	1.45:1	0.54
minibend L-3	32024-2-29094C-3	3.00 (76.2)	1.16:1	0.14	1.25:1	0.36	1.37:1	0.47	1.45:1	0.58
minibend L-3.5	32024-2-29094C-3.5	3.50 (88.9)	1.16:1	0.15	1.25:1	0.39	1.37:1	0.51	1.45:1	0.63
minibend L-4	32024-2-29094C-4	4.00 (101.6)	1.16:1	0.16	1.25:1	0.42	1.37:1	0.54	1.45:1	0.67
minibend L-4.5	32024-2-29094C-4.5	4.50 (114.3)	1.16:1	0.17	1.25:1	0.45	1.37:1	0.58	1.45:1	0.72
minibend L-5	32024-2-29094C-5	5.00 (127.0)	1.16:1	0.18	1.25:1	0.48	1.37:1	0.62	1.45:1	0.76
minibend L-5.5	32024-2-29094C-5.5	5.50 (139.7)	1.16:1	0.19	1.25:1	0.51	1.37:1	0.65	1.45:1	0.80
minibend L-6	32024-2-29094C-6	6.00 (152.4)	1.16:1	0.20	1.25:1	0.54	1.37:1	0.69	1.45:1	0.85
minibend L-6.5	32024-2-29094C-6.5	6.50 (165.1)	1.16:1	0.21	1.25:1	0.57	1.37:1	0.72	1.45:1	0.89
minibend L-7	32024-2-29094C-7	7.00 (177.8)	1.16:1	0.22	1.25:1	0.60	1.37:1	0.76	1.45:1	0.94
minibend L-8	32024-2-29094C-8	8.00 (203.2)	1.16:1	0.25	1.25:1	0.66	1.37:1	0.84	1.45:1	1.03
minibend L-9	32024-2-29094C-9	9.00 (228.6)	1.16:1	0.26	1.25:1	0.73	1.37:1	0.91	1.45:1	1.12
minibend L-10	32024-2-29094C-10	10.00 (254.0)	1.16:1	0.28	1.25:1	0.79	1.37:1	0.98	1.45:1	1.21
minibend L-11	32024-2-29094C-11	11.00 (279.4)	1.16:1	0.30	1.25:1	0.85	1.37:1	1.06	1.45:1	1.30
minibend L-12	32024-2-29094C-12	12.00 (304.8)	1.16:1	0.31	1.25:1	0.91	1.37:1	1.13	1.45:1	1.39
minibend L-13	32024-2-29094C-13	13.00 (330.2)	1.16:1	0.33	1.25:1	0.97	1.37:1	1.20	1.45:1	1.48
minibend L-14	32024-2-29094C-14	14.00 (355.6)	1.16:1	0.35	1.25:1	1.03	1.37:1	1.28	1.45:1	1.57
minibend L-15	32024-2-29094C-15	15.00 (381.0)	1.16:1	0.37	1.25:1	1.10	1.37:1	1.35	1.45:1	1.66
minibend L-16	32024-2-29094C-16	16.00 (406.4)	1.16:1	0.39	1.25:1	1.17	1.37:1	1.42	1.45:1	1.75

Environmental Limits:

Temperature -55°C to +165°C
Range:

Thermal per Mil-Std-202, Method 107, Test Cond. A
Shock:

Vibration: per Mil-Std-202, Method 214, Test Cond. B

Shock: per Mil-Std-202, Method 213, Test Cond. A,
40Gs

Phase Versus Flexure Reference Data

Astrolab performed phase tests on hundreds of minibend cable assemblies. Following are two standard Astrolab tests with the corresponding data. In test one minibend® L-6 assembly's were flexed 90° in a 0.25 inch radius directly behind the connector. In test two, minibend® L-16 assemblies were flexed 180° with a 0.4 inch radius in the middle. Typical data is recorded here:

	TEST ONE	TEST TWO
26.5 GHz.	1.3°	0.8°
18 GHz.	0.9°	0.7°
12.4 GHz.	0.7°	0.4°
1 GHz.	0.1°	0.1°

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