

Part No:

HLB098-S1-S1-L*

*L=Length (See Chart Below)



HLB098 Flexible Cable Assembly with SMA Male Straight to SMA Male Straight Connectors • DC ~ 26.5 GHz

The HLB098 Littlebend Ultra Flexible RF Cable is designed for demanding microwave interconnect requirements. They are phase and amplitude stable. This cable is well suited for dense microwave packaging with a 0.20" minimum bend radius in an 0.098" cable with stainless steel braid.

HLB098-S1-S1-L* Littlebend Ultra Flexible RF cables are terminated with high-performance SMA connectors. (Also available in 2.92mm, 2.4mm SMP and SMPM connectors.) Additional configurations available by special order.

The **HLB098-S1-S1-L*** Littlebend Ultra-Flexible RF cable series is RoHS Compliant.



Part #	*L	2GHz		12.4 GHz		18 GHz		24 GHz		26.5 GHz	
		VSWR	IL(dB)	VSWR	IL(dB)	VSWR	IL(dB)	VSWR	IL(dB)	VSWR	IL(dB)
HLB098-S1-S1-03	3"	1.15:1	0.3	1.25:1	0.5	1.30:1	0.6	1.35:1	0.7	1.35:1	0.8
HLB098-S1-S1-04	4"	1.15:1	0.3	1.25:1	0.6	1.30:1	0.7	1.35:1	0.8	1.35:1	0.8
HLB098-S1-S1-05	5"	1.15:1	0.3	1.25:1	0.6	1.30:1	0.8	1.35:1	0.9	1.35:1	0.9
HLB098-S1-S1-06	6"	1.15:1	0.3	1.25:1	0.7	1.30:1	0.8	1.35:1	0.9	1.35:1	1.0
HLB098-S1-S1-07	7"	1.15:1	0.4	1.25:1	0.8	1.30:1	0.9	1.35:1	1.0	1.35:1	1.1
HLB098-S1-S1-08	8"	1.15:1	0.4	1.25:1	0.8	1.30:1	1.0	1.35:1	1.1	1.35:1	1.2
HLB098-S1-S1-09	9"	1.15:1	0.4	1.25:1	0.9	1.30:1	1.0	1.35:1	1.2	1.35:1	1.3
HLB098-S1-S1-10	10"	1.15:1	0.4	1.25:1	0.9	1.30:1	1.1	1.35:1	1.3	1.35:1	1.4
HLB098-S1-S1-11	11"	1.15:1	0.4	1.25:1	1.0	1.30:1	1.2	1.35:1	1.4	1.35:1	1.5
HLB098-S1-S1-12	12"	1.15:1	0.5	1.25:1	1.1	1.30:1	1.2	1.35:1	1.4	1.35:1	1.5
HLB098-S1-S1-13	13"	1.15:1	0.5	1.25:1	1.1	1.30:1	1.3	1.35:1	1.5	1.35:1	1.6
HLB098-S1-S1-14	14"	1.15:1	0.5	1.25:1	1.2	1.30:1	1.4	1.35:1	1.6	1.35:1	1.7
HLB098-S1-S1-15	15"	1.15:1	0.5	1.25:1	1.2	1.30:1	1.5	1.35:1	1.7	1.35:1	1.8
HLB098-S1-S1-16	16"	1.15:1	0.6	1.25:1	1.3	1.30:1	1.5	1.35:1	1.8	1.35:1	1.9
HLB098-S1-S1-17	17"	1.15:1	0.6	1.25:1	1.4	1.30:1	1.6	1.35:1	1.9	1.35:1	2.0
HLB098-S1-S1-18	18"	1.15:1	0.6	1.25:1	1.4	1.30:1	1.7	1.35:1	1.9	1.35:1	2.1
HLB098-S1-S1-20	20"	1.15:1	0.6	1.25:1	1.5	1.30:1	1.8	1.35:1	2.1	1.35:1	2.3
HLB098-S1-S1-24	24"	1.15:1	0.7	1.25:1	1.8	1.30:1	2.1	1.35:1	2.4	1.35:1	2.6
HLB098-S1-S1-28	28"	1.15:1	0.8	1.25:1	2.0	1.30:1	2.4	1.35:1	2.7	1.35:1	2.9
HLB098-S1-S1-30	30"	1.15:1	0.9	1.25:1	2.1	1.30:1	2.5	1.35:1	2.9	1.35:1	3.1
HLB098-S1-S1-32	32"	1.15:1	0.9	1.25:1	2.4	1.30:1	2.8	1.35:1	3.2	1.35:1	3.5
HLB098-S1-S1-36	36"	1.15:1	1.0	1.25:1	2.5	1.30:1	3.0	1.35:1	3.4	1.35:1	3.7
HLB098-S1-S1-1M	1 Meter	1.15:1	1.2	1.25:1	3.0	1.30:1	3.2	1.35:1	3.7	1.35:1	4.0
HLB098-S1-S1-48	48"	1.15:1	1.3	1.25:1	3.2	1.30:1	3.8	1.35:1	4.4	1.35:1	4.7

Product specifications subject to change without notification.

Electrical

- Impedance 50 Ohms
- Frequency Range DC - 26.5 GHz
- VSWR See Chart
- Insertion Loss See Chart
- Amplitude Stability $< \pm .08\text{dB}$ @ 26.5 GHz
- Phase Stability vs Flexure $< \pm 3^\circ$ @ 26.5 GHz
(When wrapped around a 26.4mm Radius Mandrel)
- Power Handling @ 20°C
 - 1 GHz - 103W
 - 6 GHz - 40W
 - 12 GHz - 28W
 - 18 GHz - 22W
 - 26.5 GHz - 18W
- Diel. Withstanding Voltage 750V
- Insulation Resistance 1000M Ω

Mechanical

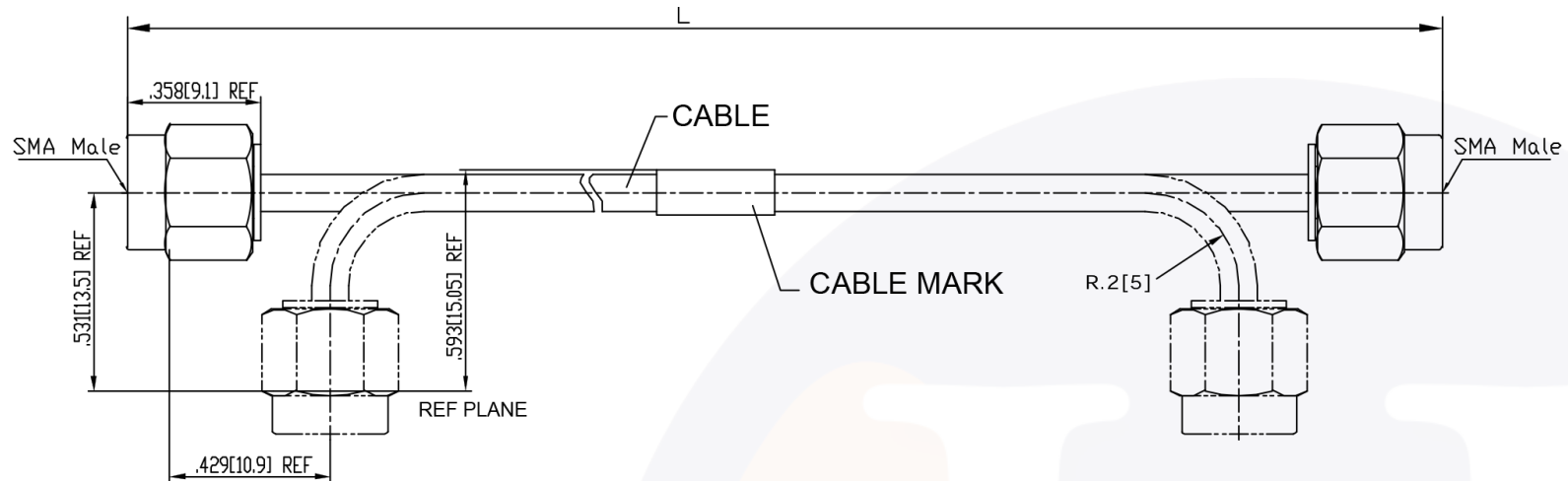
- Min Bend Radius Static: 0.20", Repeated: 0.40"
- Durability 1000 cycles Min.

Environmental Data

- Temperature Range -55°C to +125°C

Material

- Cable Center Conductor Silver Plated Solid Copper
- Cable Outer Conductor Silver Plated Copper Strip
- Cable Interlayer Aluminum Foil
- Cable Outer Shield Stainless Steel Braid
- Cable Jacket FEP
- Dielectric Low Density PTFE
- SMA Body & Nut Passivated Stainless Steel
- SMA Center Contact Gold Plated Brass



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MATERIALS: SEE DATA SHEET	CAGE CODE: 0T8L4	SCALE: N/A	SIZE: A
FINISHES: SEE DATA SHEET	PART NO./DRAWING NO. HLB098-S1-S1-L* *L=Length (See Chart on Page 1)		REV: A