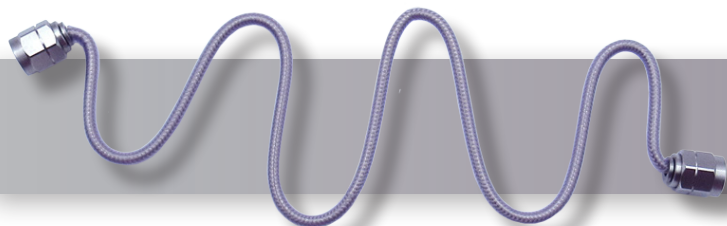


Part No:

HLB098-24P-24P-L



HLB098 Flexible Cable Assembly with 2.4mm Male Straight to 2.4mm Male Straight Connectors • DC ~ 50 GHz

The HASCO HLB098 Littlebend Flexible 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 5.0mm minimum bend radius in a 0.098" cable with stainless steel braid.

HLB098-24P-24P-L Littlebend flexible cables are terminated with high performance 2.4mm straight connectors. Also available in SMA, 2.92mm, and SMP connectors. Additional configurations available by special order.

The HASCO **HLB098-24P-24P-L** Littlebend flexible cable series is RoHS Compliant.



Part #	*L	2GHz		12.4 GHz		18 GHz		24 GHz		26.5 GHz		40 GHz		50 GHz	
		VSWR	IL(dB)	VSWR	IL(dB)	VSWR	IL(dB)	VSWR	IL(dB)	VSWR	IL(dB)	VSWR	IL(dB)	VSWR	IL(dB)
HLB098-24P-24P-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	1.35:1	0.9	1.35:1	1.0
HLB098-24P-24P-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	1.35:1	1.0	1.35:1	1.1
HLB098-24P-24P-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	1.35:1	1.1	1.35:1	1.3
HLB098-24P-24P-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	1.35:1	1.2	1.35:1	1.4
HLB098-24P-24P-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	1.35:1	1.3	1.35:1	1.5
HLB098-24P-24P-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	1.35:1	1.4	1.35:1	1.7
HLB098-24P-24P-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	1.35:1	1.5	1.35:1	1.8
HLB098-24P-24P-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	1.35:1	1.7	1.35:1	1.9
HLB098-24P-24P-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	1.35:1	1.8	1.35:1	2.0
HLB098-24P-24P-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	1.35:1	1.9	1.35:1	2.2
HLB098-24P-24P-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	1.35:1	2.0	1.35:1	2.3
HLB098-24P-24P-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	1.35:1	2.1	1.35:1	2.4
HLB098-24P-24P-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	1.35:1	2.2	1.35:1	2.5
HLB098-24P-24P-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	1.35:1	2.3	1.35:1	2.7
HLB098-24P-24P-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	1.35:1	2.4	1.35:1	2.8
HLB098-24P-24P-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	1.35:1	2.5	1.35:1	2.9
HLB098-24P-24P-19	19"	1.15:1	0.6	1.25:1	1.5	1.30:1	1.7	1.35:1	2.0	1.35:1	2.2	1.35:1	2.6	1.35:1	3.0
HLB098-24P-24P-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	1.35:1	2.8	1.35:1	3.2
HLB098-24P-24P-21	21"	1.15:1	0.7	1.25:1	1.6	1.30:1	1.9	1.35:1	2.2	1.35:1	2.3	1.35:1	2.9	1.35:1	3.3
HLB098-24P-24P-22	22"	1.15:1	0.7	1.25:1	1.6	1.30:1	2.0	1.35:1	2.3	1.35:1	2.4	1.35:1	3.0	1.35:1	3.4
HLB098-24P-24P-23	23"	1.15:1	0.7	1.25:1	1.7	1.30:1	2.0	1.35:1	2.4	1.35:1	2.5	1.35:1	3.1	1.35:1	3.5
HLB098-24P-24P-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	1.35:1	3.2	1.35:1	3.7
HLB098-24P-24P-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	1.35:1	3.9	1.35:1	4.4
HLB098-24P-24P-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	1.35:1	4.5	1.35:1	5.2
HLB098-24P-24P-1M	1 Meter	1.15:1	1.1	1.25:1	2.8	1.30:1	3.3	1.35:1	3.8	1.35:1	4.1	1.35:1	5.0	1.35:1	5.8
HLB098-24P-24P-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	1.35:1	5.9	1.35:1	6.7

Electrical

- Impedance: 50 Ohms
- Frequency Range: DC - 50 GHz
- VSWR: See Chart
- Insertion Loss: See Chart
- Velocity of Propagation: 74%
- Time Delay: 4.50 ns/meter
- Amplitude Stability: ±0.1dB/m @ 50 GHz
- Phase Stability: ±5.0° @ 50 GHz
(When wrapped around a 26.4mm Radius Mandrel)
- Power Handling @ 20°C:
 - 1 GHz - 103W
 - 18 GHz - 22W
 - 26.5 GHz - 18W
 - 40 GHz - 14W
 - 50 GHz - 11W

- Dielectric Withstanding Voltage: 750V
- Insulation Resistance: 1000MΩ

Mechanical

- Min Bend Radius: Static: 5.0 mm
Repeated: 10mm
- Durability: 1000 cycles Min.

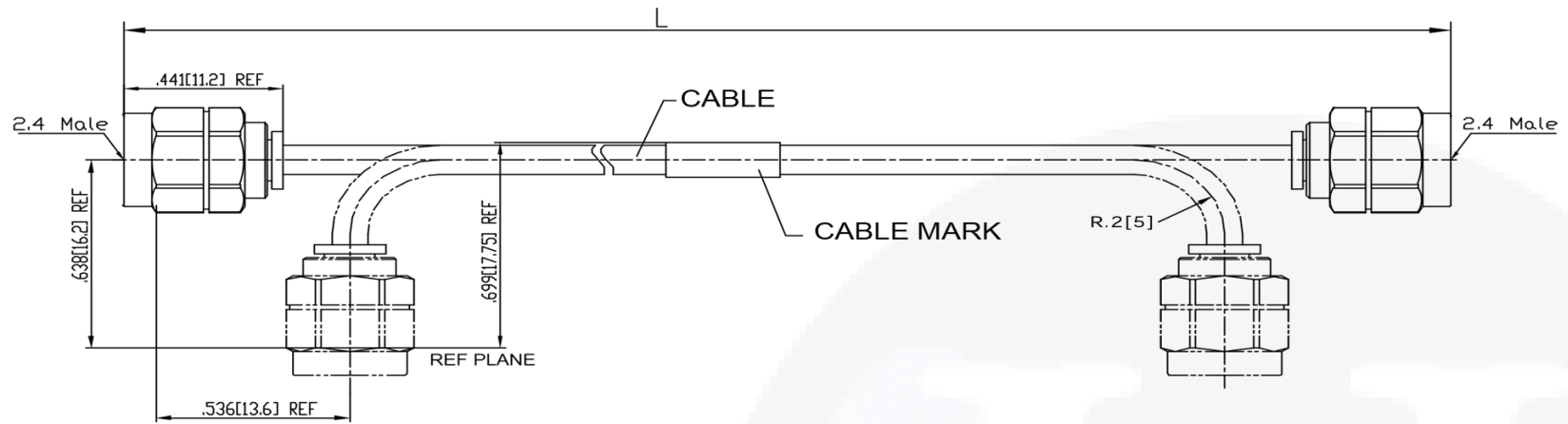
Environmental Data

- Temperature Range: -55°C to +125°C

Material

- Cable Center Conductor: Silver Plated Solid Copper
- Cable Outer Conductor: Silver Plated Copper Strip
- Cable Jacket: FEP
- Cable Dielectric: Low Density PTFE
- 2.4mm Body & Nut: Passivated Stainless Steel
- 2.4mm Center Contact: Gold Plated Brass
- 2.4mm Dielectric: PEI

LittleBend 2.4mm Male to 2.4mm Male Ultra Flexible RF Cable Series | DC ~ 50 GHz | Outline Drawing



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-	RELEASE	12/21	TAC	APPROVED BY: TAC	
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MATERIALS: SEE DATA SHEET	CAGE CODE: 0T8L4	SCALE: N/A	SIZE: A
FINISHES: SEE DATA SHEET	PART NO./DRAWING NO. HLB098-24P-24P-L		REV: -