

Part No:

HLB098-S1-S2BH-L*

*L=Length (See Chart Below)



HLB098 Flexible Cable Assembly with SMA Male to SMA Female Bulkhead 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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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-S2BH-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 |
| HLB098-S1-S2BH-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-S2BH-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 |
| HLB098-S1-S2BH-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 |
| HLB098-S1-S2BH-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 |
| HLB098-S1-S2BH-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-S2BH-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-S2BH-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-S2BH-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 |

Electrical

- Impedance 50 Ohms
- Frequency Range DC - 26.5 GHz
- VSWR See Chart
- Insertion Loss See Chart
- Diel. Withstanding Voltage 500V
- Insulation Resistance 1000MΩ

Mechanical

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

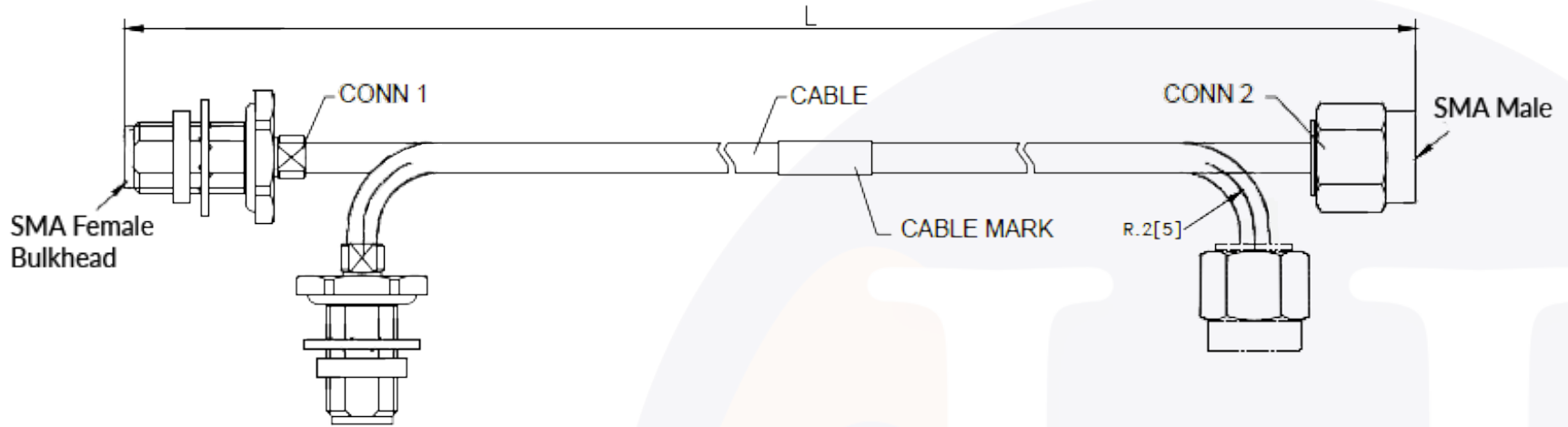
Environmental Data

- 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

Littlebend Cable Series with SMA Male to SMA Female Bulkhead Connectors | DC - 26.5 GHz | Outline Drawing



| | | | | | |
|---------------------------------------|------------------|-------|-------|--|----------------|
| LTR | DESCRIPTION | DATE | APPR. | DRAWN BY: NS | CHECKED BY: JS |
| - | RELEASE | 08/22 | 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-S1-S2BH-L* | | REV: A |

*L=Length (See Chart on Page 1)