

B15 Series (SMA Female-ST to SMA Female-ST)

Cable Assembly, 50ohms, DC-26.5GHz



B15-02-02-"L" (L: Length)

Maximum Ratings

Operating Temperature -55°C to +85°C

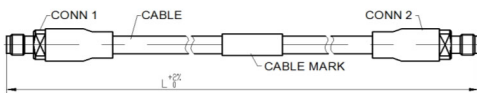
Storage Temperature -55°C to +85°C

Permanent damage may occur if any of these limits are exceeded

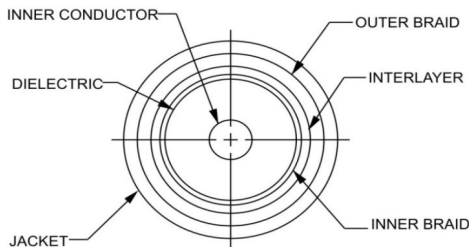
Cable Diameter		3.9mm
Velocity of Propagation		81%
Shielding Effectiveness		>90dB
Power Handling at 40°C	1 GHz	125W
	2 GHz	93W
	6GHz	52W
	12 GHz	37W
	18 GHz	29W
	26.5 GHz	22W
	40 GHz	18W
Min. Bend Radius		16mm

Outline Drawing

Unit [mm]



Cable Cross Section



Features

- Super flexible & durable
- Long bending life
- Low VSWR
- High shielding effectiveness, >90dB
- Excellent phase stability over temperature, 500ppm@-55°C~+85°C
- Good phase stability over flexure, <±3°@26.5GHz
- Stainless steel connectors for long mating-cycle life

Applications

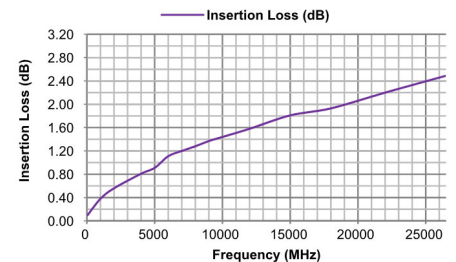
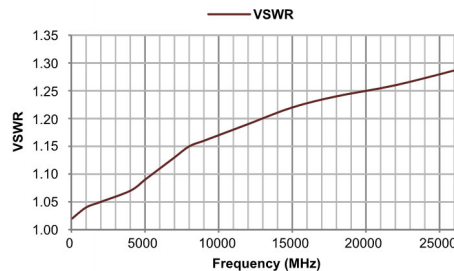
- Phase array radars
- Rack to rack connection
- RF/Microwave test systems
- Airborne, shipborne and ground systems

Electrical Specifications at 25°C

Freq. (GHz)	Length	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 6		6-12		12-18		18-26.5		DC - 6		6-12		12-18		18-26.5	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-26.5	0.5	0.7	0.8	0.9	1.1	1.0	1.3	1.4	1.7	1.11	1.15	1.19	1.25	1.24	1.30	1.29	1.35
	0.8	0.9	1.1	1.3	1.5	1.6	1.9	2.1	2.4								
	1	1.1	1.3	1.5	1.8	2.0	2.3	2.5	2.8								
	1.5	1.6	1.8	2.3	2.6	2.9	3.2	3.7	4.0								
	2	2.1	2.3	3.0	3.3	3.9	4.2	4.9	5.2								

Typical Performance Data (B15-02-02-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.10
1000	1.04	0.38
2000	1.05	0.56
4000	1.07	0.81
5000	1.09	0.91
6000	1.11	1.11
7000	1.13	1.20
8000	1.15	1.28
9000	1.16	1.37
10000	1.17	1.44
12000	1.19	1.58
15000	1.22	1.81
18000	1.24	1.93
22000	1.26	2.20
26500	1.29	2.49



Cable Construction	
Inner Conductor	Silver Plated Copper, Solid
Dielectric	LD-PTFE
Inner Braid	Silver-Plated Copper Braid
Interlayer	PTFE
Outer Braid	Silver-Plated Copper Braid
Jacket	FEP

Connectors

- Nut, Stainless steel, Passivated
- Body, Stainless steel, Passivated
- Center contacts, Berillium Copper, Gold plated
- Dielectric, PTFE, Natural

Product Guarantee*

Micable will repair or replace your cable assembly if it fails within six months after shipment. This guarantee excludes product damage from misuse or abuse