

# A02 Series (SMA Male-ST to SMA Female-ST)

LL142 Cable Assembly, 50ohms, DC-26.5GHz



## A02-01-02-"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	4.95mm	
Velocity of Propagation	80%	
Shielding Effectiveness	>95dB	
Power Handling at 20°C	1 GHz	590W
	2 GHz	414W
	6 GHz	221W
	12GHz	172W
	18 GHz	153W
	26.5 GHz	126W
Min. Bending Radius	1.0" (25.4mm)	

### Features

- Frequency up to 26.5 GHz
- Stainless steel connectors for long mating-cycle life
- Triple shielded cable for excellent shielding effectiveness, >95dB
- Excellent phase stability over temperature, 220ppm@+22°C~+85°C
- Low loss, low VSWR
- High power handling

### Applications

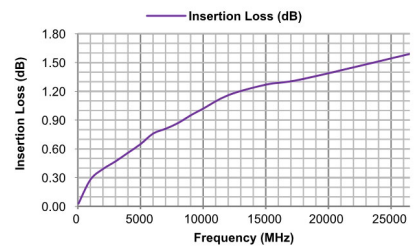
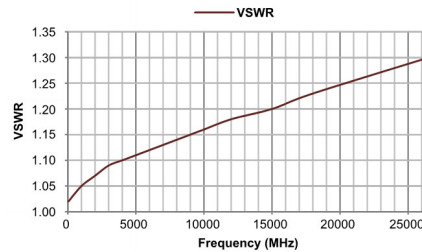
- Rack to rack connection
- RF/Microwave test systems
- Airborne, shipborne and ground systems
- Phase array radars
- High power transmitters
- Power amplifier systems

### Electrical Specifications at 25°C

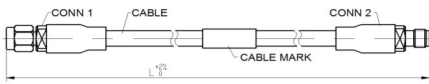
Freq. (GHz)	Length (m)	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 6		6-12		12-18		18-26.5		DC - 6		6-12		12-18		18-26.5	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-26.5	0.5	0.6	0.7	0.6	0.8	0.7	1.0	1.0	1.3	1.12	1.20	1.18	1.25	1.23	1.30	1.30	1.35
	1	0.8	1.0	1.2	1.4	1.3	1.6	1.6	2.0								
	1.5	1.2	1.4	1.7	1.9	2.0	2.3	2.4	2.8								
	2	1.6	1.8	2.2	2.4	2.6	2.9	3.2	3.6								

### Typical Performance Data ( A02-01-02-1M)

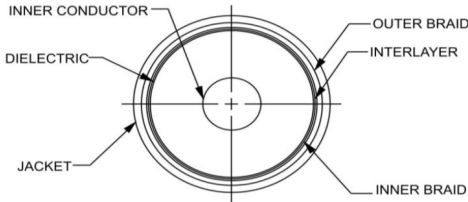
Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.03
1000	1.05	0.28
2000	1.07	0.39
3000	1.09	0.47
4000	1.10	0.56
5000	1.11	0.65
6000	1.12	0.76
7000	1.13	0.81
8000	1.14	0.87
9000	1.15	0.95
10000	1.16	1.02
12000	1.18	1.16
15000	1.20	1.27
18000	1.23	1.33
26500	1.30	1.59



Outline Drawing Unit [mm]



Cable Cross Section



### Cable Construction

Inner Conductor	Solid Silver Plated Copper
Dielectric	Expanded PTFE Tape
Inner Braid	Silver-Plated Copper Strip
Interlayer	Aluminum Polyester
Outer Braid	Silver-Plated Copper Braid
Jacket	FEP

### Connectors

- Nut, Stainless steel, Passivated
- Body, Stainless steel, Passivated
- Center contacts, Brass, 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