

A02 Series (N Male-ST to N Male-ST)

LL142 Cable Assembly, 50ohms, DC-18GHz



A02-07-07-"L" (L: Length)

Maximum Ratings

Operating Temperature -55°C to +85°C

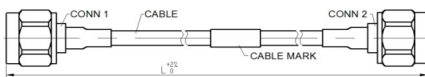
Storage Temperature -55°C to +85°C

Permanent damage may occur if any of these limits are exceeded

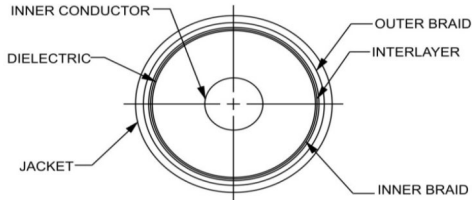
Cable Diameter	4.95mm
Velocity of Propagation	80%
Shielding Effectiveness	>95dB
Power Handling at 20°C	1 GHz 834W
	2 GHz 606W
	6 GHz 334W
	12GHz 218W
	16 GHz 182W
	18 GHz 169W
Min. Bending Radius	1.0" (25.4mm)

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

Features

- Frequency up to 18 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 - 3		3-6		6-12		12-18		DC - 3		3-6		6-12		12-18	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-18	0.5	0.4	0.5	0.6	0.7	0.6	0.8	0.7	1.0	1.09	1.15	1.12	1.20	1.18	1.25	1.30	1.35
	1	0.5	0.7	0.8	1.0	1.2	1.4	1.3	1.6								
	1.5	0.8	1.0	1.2	1.4	1.7	1.9	2.0	2.3								
	2	1.0	1.2	1.6	1.8	2.2	2.4	2.6	2.9								

Typical Performance Data (A02-07-07-1M)

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	1.19	1.16
13000	1.20	1.21
15000	1.23	1.27
18000	1.30	1.33

