A04I Series (SMA Male-ST to N Male-ST)

LL335I Cable Assembly, 50ohms, DC-18GHz

A04I-01-07-"L" (L: Length)

Maximum Ratings

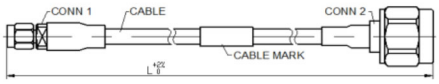
Operating Temperature -55°C to +85°C

Storage Temperature -55°C to +85°C

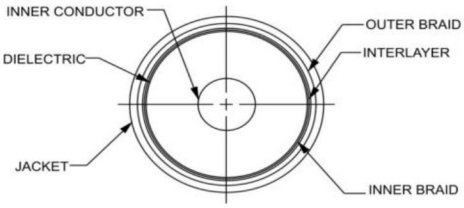
Permanent damage may occur if any of these limits are exceeded

Cable Diameter		7.65mm
Velocity of Propagation		83%
Shielding Effectiveness		>95dB
Power Handling at 20°C	1 GHz	590W
	2 GHz	414W
	6 GHz	221W
	12GHz	172W
	16 GHz	165W
	18 GHz	153W
Min. Bending Radius		1.5" (38.1mm)

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

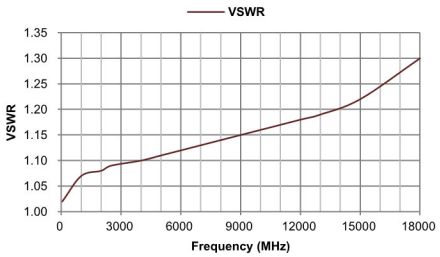
- Rack to rack connection
- RF/Microwave test system
- Airborne, shipborne and ground systems
- Phase array radar
- High power transmitters
- Power amplifier systems

Electrical Specifications at 25°C

Freq. (GHz)	Length (m)	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 2.5		2.5-6		6-12		12-18		DC - 2.5		2.5-6		6-12		12-18	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-18	0.5	0.3	0.4	0.4	0.5	0.5	0.7	0.6	0.8	1.09	1.15	1.12	1.20	1.18	1.25	1.30	1.35
	1	0.4	0.5	0.6	0.7	0.8	1.0	1.0	1.2								
	1.5	0.6	0.7	0.8	0.9	1.1	1.3	1.4	1.6								
	2	0.7	0.8	1.0	1.1	1.4	1.6	1.8	2.0								

Typical Performance Data（A04I-01-07-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.03
1000	1.07	0.27
2000	1.08	0.33
2500	1.09	0.38
4000	1.10	0.46
5000	1.11	0.51
6000	1.12	0.56
7000	1.13	0.60
8000	1.14	0.65
9000	1.15	0.69
10000	1.16	0.73
12000	1.18	0.81
13000	1.19	0.87
15000	1.22	0.96
18000	1.30	1.06



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