

# A04I Series (TNC Male-ST to TNC Male-ST)

LL335I, Cable Assembly, 50ohms, DC-18GHz



## A04I-11-11-"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	595W
	2 GHz	421W
	6 GHz	232W
	12GHz	182W
	16 GHz	175W
18 GHz	163W	
Min. Bending Radius	1.5" (38.1mm)	

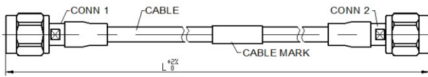
### Features

- 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

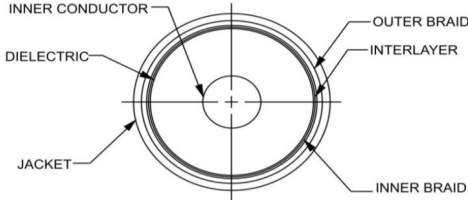
Outline Drawing Unit [mm]



### 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								

### Cable Cross Section



### Typical Performance Data (A04I-11-11-1M)

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

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

