

## C04I Series (N Male-ST to N Male-ST)

High Reliable & Durable Test Cable Assembly, 50ohms, DC-18GHz



### C04I-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	70%	
Shielding Effectiveness	>95dB	
Power Handling at 20°C	1 GHz	285W
	3 GHz	155W
	6 GHz	103W
	12GHz	67W
	18 GHz	52W
Min. Bending Radius	1.0" (25.4mm)	

#### Features

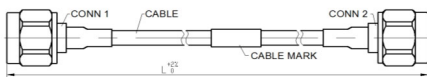
- Phase and amplitude stable
- Low loss and super flexible
- Stainless steel connector for long mating-cycles life
- High reliability approved by 20,000 strict bending cycles
- Excellent shielding effectiveness > 95 dB

#### Applications

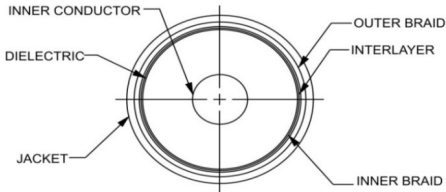
- Lab and production line test
- Connection between racks/equipments
- Military and commercial RF/microwave systems

#### Outline Drawing

Unit [mm]



#### Cable Cross Section



Cable Construction	
Inner Conductor	Solid Silver Plated Copper
Dielectric	PTFE
Inner Braid	Flat SPC Tape, 95% Coverage
Inter layer	Aluminum Polyester
Outer Braid	Silver-Plated Copper Braid
Jacket	PVC
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

#### 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	0.5	0.6	0.7	0.9	1.0	1.2	1.2	1.5	1.11	1.15	1.15	1.20	1.20	1.25	1.30	1.35
	1	0.8	1.0	1.3	1.5	1.9	2.1	2.4	2.7								
	1.5	1.2	1.4	1.9	2.1	2.8	3.0	3.6	3.9								
	2	1.6	1.8	2.5	2.7	2.7	3.9	4.7	5.0								

#### Typical Performance Data (C04I-07-07-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.03
1000	1.05	0.43
2000	1.08	0.63
3000	1.11	0.79
4000	1.13	0.97
5000	1.14	1.15
6000	1.15	1.28
7000	1.16	1.35
8000	1.17	1.49
9000	1.18	1.58
10000	1.19	1.67
12000	1.20	1.90
13000	1.22	1.98
15000	1.25	2.16
18000	1.30	2.39

