

# F05J Series (SMA Male-ST to N Male-ST)

Jacketed .250 Hand Formable Cable Assembly, 50ohms, DC-18GHz



## F05J-01-07-"L" (L: Length)

### Maximum Ratings

Operating Temperature -55°C to +125°C

Storage Temperature -55°C to +125°C

Permanent damage may occur if any of these limits are exceeded

Outer Diameter	6.9 mm	
Velocity of Propagation	70%	
Shielding Effectiveness	>100dB	
Power Handling at 40°C	1 GHz	590W
	2 GHz	414W
	6 GHz	221W
	12GHz	172W
	16 GHz	165W
18 GHz	153W	
Min. Bending Radius	30mm	

### Features

- Excellent Return Loss/VSWR
- Hand formable to almost any custom shape without special bending tools
- Excellent shielding effectiveness >100 dB
- Anti-torque nut prevents cable stress during installation

### Applications

- Replacement for .250" semi-rigid cables
- Modules connection in receivers and transmitters
- Interconnect of assembled systems
- Military and commercial systems

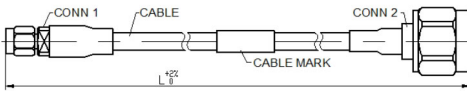
### Electrical Specifications at 25°C

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	0.2	0.2	0.3	0.2	0.4	0.3	0.5	0.5	0.7	1.11	1.15	1.14	1.20	1.20	1.25	1.31	1.35
	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.9								
	0.5	0.4	0.6	0.6	0.8	0.7	0.9	0.9	1.2								
	1	0.6	0.8	0.9	1.2	1.3	1.6	1.6	1.9								

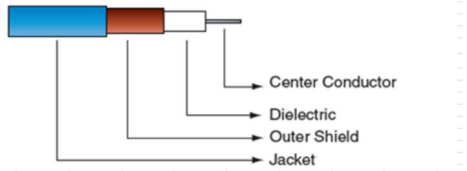
### Typical Performance Data (F05J-01-07-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.05	0.05
1000	1.08	0.34
2000	1.10	0.49
4000	1.12	0.77
5000	1.13	0.85
6000	1.14	0.91
7000	1.15	0.98
8000	1.16	1.06
9000	1.17	1.12
10000	1.18	1.23
12000	1.20	1.33
15000	1.25	1.45
16000	1.27	1.50
18000	1.30	1.61

### Outline Drawing



### Cable Construction



Cable Construction	
Inner Conductor	Solid SPC
Dielectric	PTFE
Outer Conductor	Tinned Soaked Copper Braid
Jacket	FEP

Connectors	
• Nut, Stainless steel, Passivated	
• Body, Brass, Gold plated	
• 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

