

# F01 Series (SMA Male-ST to SMA Male-ST)

.086 Hand Formable Cable Assembly, 50ohms, DC-26.5GHz



## F01-01-01-"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	2.2 mm	
Velocity of Propagation	70%	
Shielding Effectiveness	>100dB	
Power Handling at 40°C	1 GHz	122W
	6 GHz	48W
	12GHz	31W
	18 GHz	23W
	26.5 GHz	18W
Min. Bending Radius	0.24" (6mm)	

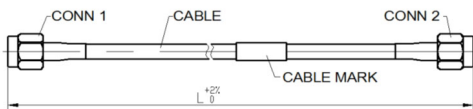
### Features

- Wideband frequency coverage, DC to 26.5 GHz
- Excellent Return Loss/VSWR
- Hand formable to almost any custom shape without special bending tools
- 6mm bend radius for tight installations
- Anti-torque nut prevents cable stress during installation
- Excellent shielding effectiveness >100 dB

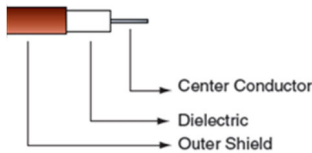
### Applications

- Replacement for .086" semi-rigid cables
- Modules connection in receivers and transmitters
- Interconnect of assembled systems
- Military and commercial systems

### Outline Drawing



### Cable Construction



Cable Construction	
Inner Conductor	Solid SPCW
Dielectric	PTFE
Outer Conductor	Tinned Soaked Copper Braid

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

### Electrical Specifications at 25°C

Freq. (GHz)	Length (m)	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 6		6-12		12-18		18-26.5		DC - 6		6-12		12-18		18-26.5	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-26.5	0.1	0.4	0.5	0.6	0.7	0.7	0.8	0.8	1.0	1.11	1.15	1.17	1.25	1.22	1.30	1.27	1.35
	0.2	0.6	0.7	0.8	1.0	1.0	1.2	1.2	1.4								
	0.3	0.7	0.8	1.1	1.3	1.3	1.5	1.6	1.8								

### Typical Performance Data (F01-01-01-0.3M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.05
1000	1.04	0.31
2000	1.05	0.39
3000	1.07	0.46
4000	1.08	0.51
5000	1.10	0.60
6000	1.11	0.65
8000	1.12	0.84
10000	1.15	0.98
12000	1.17	1.09
18000	1.22	1.32
26500	1.27	1.63

