

# F02J Series (SMA Male-ST to SMA Male-ST)

Jacketed .141 Hand Formable Cable Assembly, 50ohms, DC-26.5GHz



## F02J-01-01-"L" (L: Length)

### Maximum Ratings

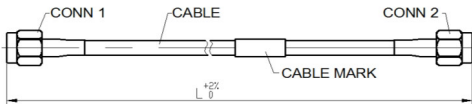
Operating Temperature -55°C to +125°C

Storage Temperature -55°C to +125°C

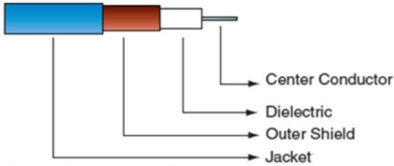
Permanent damage may occur if any of these limits are exceeded

Outer Diameter	4.15 mm	
Velocity of Propagation	70%	
Shielding Effectiveness	>100dB	
Power Handling at 40°C	1 GHz	303W
	6 GHz	113W
	12GHz	68W
	18 GHz	46W
	26.5 GHz	35W
Min. Bending Radius	8mm	

### 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

### 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 .141" 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 - 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	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.8	1.11	1.20	1.17	1.25	1.22	1.30	1.31	1.40
	0.2	0.4	0.5	0.6	0.7	0.7	0.8	0.8	1.1								
	0.3	0.5	0.6	0.7	0.9	0.9	1.1	1.1	1.4								

### Typical Performance Data (F02J-01-01-0.3M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.05
1000	1.04	0.24
2000	1.05	0.29
3000	1.07	0.35
4000	1.08	0.40
5000	1.10	0.45
6000	1.11	0.51
8000	1.12	0.62
10000	1.15	0.69
12000	1.17	0.74
18000	1.22	0.92
26500	1.31	1.11

