

# F06J Series (SMA Male-ST to MCX Male-ST)

Jacketed .047 Hand Formable Cable Assembly, 50ohms, DC-12GHz



## F06J-01-27-"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

Cable Diameter	1.65mm	
Velocity of Propagation	70%	
Shielding Effectiveness	>100dB	
Power Handling at 20°C	1 GHz	32W
	6 GHz	14W
	12 GHz	9W
	18 GHz	8W
	26.5 GHz	7W
Min. Bending Radius	4mm	

### Features

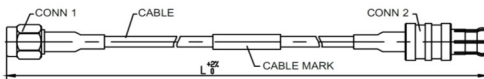
- Excellent Return Loss/VSWR
- Hand formable to almost any custom shape without special bending tools
- Excellent shielding effectiveness >100 dB
- Anti-torque nut prevents cable stress during installation

### Applications

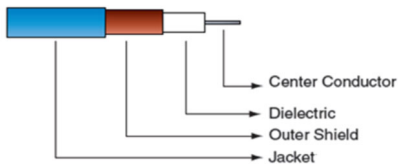
- Replacement for .047" semi-rigid cables
- Modules connection in receivers and transmitters
- Interconnect of assembled systems
- Military and commercial systems

### Outline Drawing

Unit[mm]



### Cable Construction



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

Connectors	
• Nut, Stainless steel, Passivated	
• Body, Stainless steel, Passivated	
• Center contacts, Brass Copper, 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		6-10		10-12		DC.-3		3-6		6-10		10-12	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC- 12	0.1	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	1.15	1.20	1.16	1.20	1.19	1.25	1.21	1.25
	0.2	0.6	0.7	0.7	0.9	1.0	1.2	1.1	1.3								
	0.3	0.8	0.9	1.0	1.2	1.4	1.6	1.5	1.7								

### Typical Performance Data (F06J-01-27-0.2M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.08
1000	1.07	0.31
2000	1.05	0.43
3000	1.15	0.55
4000	1.09	0.61
5000	1.16	0.65
6000	1.08	0.70
7000	1.11	0.75
8000	1.07	0.80
9000	1.13	0.85
10000	1.19	0.93
11000	1.17	1.00
12000	1.21	1.05

