

# F01J Series (SMA Male-RA to SMA Male-RA)

High Performance, 50ohms, DC-20GHz



## F01J-05-05-"L" (L: Length)

### Maximum Ratings

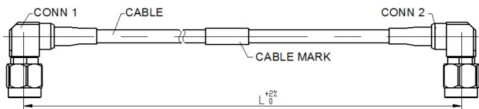
Operating Temperature -55°C to +105°C

Storage Temperature -55°C to +105°C

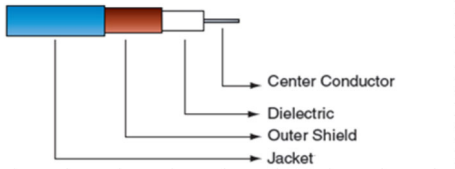
Permanent damage may occur if any of these limits are exceeded

Outer Diameter	2.65 mm
Velocity of Propagation	70%
Shielding Effectiveness	>100dB
Power Handling at 40°C	1 GHz 122W
	6 GHz 48W
	12GHz 31W
	18 GHz 23W
Min. Bending Radius	0.24" (6mm)

### Outline Drawing



### Cable Construction



### Features

- Wideband frequency coverage, DC to 20 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

### Electrical Specifications at 25°C

Freq. (GHz)	Length (m)	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 6		6-12		12-18		18-20		DC - 6		6-12		12-18		18-20	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-20	0.1	0.4	0.5	0.6	0.7	0.7	0.8	0.8	1.0	1.15	1.20	1.22	1.30	1.28	1.35	1.31	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	1.5	1.7								

### Typical Performance Data (F01J-05-05-0.3M)

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	1.12	0.60
6000	1.15	0.65
8000	1.17	0.84
10000	1.18	0.98
12000	1.22	1.09
18000	1.28	1.38
20000	1.31	1.53

Cable Construction	
Inner Conductor	Solid SPCW
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

