

F02J Series (SMA Male-RA to SMA Male-RA)

Jacketed .141 Hand Formable Cable Assembly, 50ohms, DC-20GHz



F02J-05-05-"L" (L: Length)

Maximum Ratings

Operating Temperature -55°C to +85°C

Storage Temperature -55°C to +85°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
	20 GHz	40W
Min. Bending Radius	8mm	

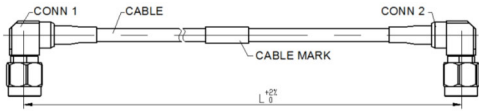
Features

- 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

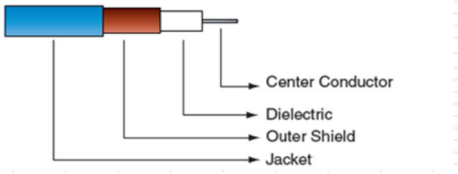
Applications

- Replacement for .141" semi-rigid cables
- Modules connection in receivers and transmitters
- Interconnect of assembled systems
- Military and commercial systems

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

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	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	1.13	1.20	1.21	1.30	1.25	1.35	1.27	1.35
	0.2	0.4	0.5	0.6	0.7	0.7	0.8	0.8	1.0								
	0.3	0.5	0.6	0.7	0.9	0.9	1.1	1.0	1.2								

Typical Performance Data (F02J-05-05-0.3M)

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	1.13	0.51
8000	1.15	0.62
10000	1.18	0.69
12000	1.21	0.74
18000	1.25	0.92
20000	1.27	0.98

