

F01 Series (2.92mm Male-ST to 2.92mm Male-ST) .086 Hand Formable Cable Assembly, 50ohms, DC-40GHz



F01-40-40-"L" (L: Length)

Maximum Ratings

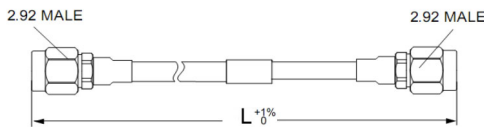
Operating Temperature -55°C to +125°C

Storage Temperature -55°C to +125°C

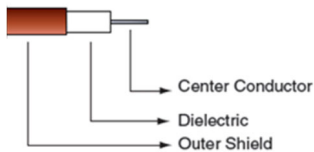
Permanent damage may occur if any of these limits are exceeded

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
	40 GHz 13W
Min. Bending Radius	0.24" (6mm)

Outline Drawing



Cable Construction



Cable Construction	
Inner Conductor	Solid SPCW
Dielectric	PTFE
OuterConductor	Tinned Soaked Copper Braid
Connectors	
● Nut, Stainless steel, Passivated	
● Body, Brass, Gold plated	
● Center contacts, Berillium Copper, Gold plated	
● Dielectric, PEI, 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

- Wideband frequency coverage, DC to 40 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		6-18		18-26.5		26.5-40		DC - 6		6-18		18-26.5		26.5-40	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-40	0.1	0.4	0.5	0.7	0.8	0.8	1.0	0.8	1.1	1.05	1.10	1.10	1.15	1.25	1.30	1.25	1.35
	0.2	0.6	0.7	1	1.2	1.2	1.4	1.4	1.7								
	0.3	0.7	0.8	1.3	1.5	1.6	1.8	2.0	2.3								

Typical Performance Data (F01-40-40-0.3M)

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	0.57
6000	1.11	0.65
8000	1.12	0.86
10000	1.15	1.05
18000	1.22	1.32
26500	1.27	1.63
40000	1.22	2.31

