

F01J Series (SMA Male-ST to SMA Male-ST)

Jacketed .086 Hand Formable Cable Assembly, 50ohms, DC-26.5GHz



F01J-01-01-"L" (L: Length)

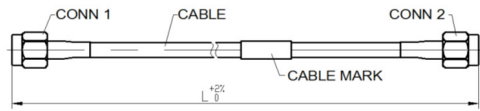
Maximum Ratings

Operating Temperature -55°C to +125°C

Storage Temperature -55°C to +125°C

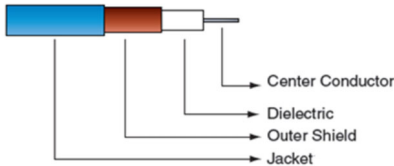
Permanent damage may occur if any of these limits are exceeded

| | |
|-------------------------|--------------|
| Outer Diameter | 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 |
| | 26.5 GHz 18W |
| Min. Bending Radius | 0.24" (6mm) |



Outline Drawing

Cable Construction



| 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

Features

- Wideband frequency coverage, DC to 26.5 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 | | 18-26.5 | | 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 | 0.4 | 0.5 | 0.6 | 0.7 | 0.7 | 0.8 | 0.8 | 1 | 1.11 | 1.15 | 1.17 | 1.25 | 1.22 | 1.30 | 1.27 | 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 | 1.6 | 1.8 | | | | | | | | |

Typical Performance Data (F01J-01-01-0.3M)

| 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 | 0.60 |
| 6000 | 1.11 | 0.65 |
| 8000 | 1.12 | 0.84 |
| 10000 | 1.15 | 0.98 |
| 12000 | 1.17 | 1.09 |
| 18000 | 1.22 | 1.32 |
| 26500 | 1.27 | 1.63 |

