# F06J Series (2.92 Male-ST to 2.92 Male-ST)

## Jacketed .047 Hand Formable Cable Assembly, 50ohms, DC-40GHz

**F06J-40-40-"L" (L: Length)**

**Maximum Ratings**

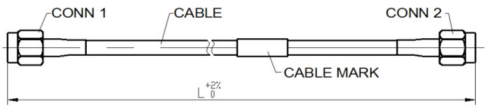
Operating Temperature -55°C to +125°C

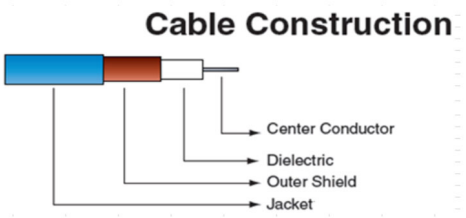
Storage Temperature -55°C to +125°C

*Permanent damage may occur if any of these limits are exceeded*

| | | |
|---|---|---|
| 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 |
| | 40 GHz | 5W |
| Min. Bending Radius | | 4mm |

**Outline Drawing** Unit[mm]




| Cable Construction | |
|---|---|
| Inner Conductor | Solid SPC |
| Dielectric | PTFE |
| OuterConductor | 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

**Features**

- Frequency 40GHz
- Excellent Return Loss/VSWR
- Hand formable to almost any custom shape without special bending tools
- Excellent shielding effectiveness >100 dB

**Applications**

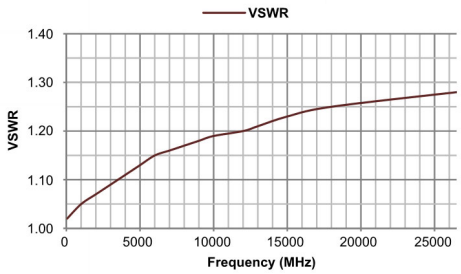
- Replacement for .047" semi-rigid cables
- Modules connection in receivers and transmitters
- Interconnect of assembled systems
- Military and commercial systems

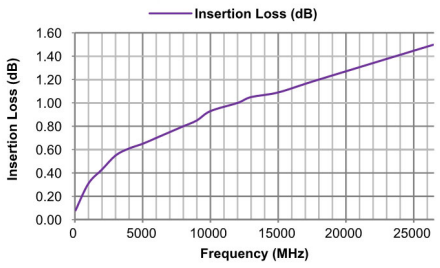
**Electrical Specifications at 25°C**

| 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 | 0.5 | 0.6 | 0.7 | 1.0 | 0.8 | 1.2 | 1.0 | 1.4 | | | | | | | | |
| | 0.2 | 0.7 | 0.9 | 1.1 | 1.4 | 1.5 | 1.8 | 2.0 | 2.3 | 1.15 | 1.20 | 1.23 | 1.30 | 1.25 | 1.30 | 1.28 | 1.35 |
| | 0.3 | 1.0 | 1.2 | 1.7 | 2.0 | 2.2 | 2.5 | 3.8 | 3.2 | | | | | | | | |

**Typical Performance Data（E01-40-40-0.2M)**

| Frequency(MHz) | VSWR | Insertion Loss (dB) |
|---|---|---|
| 50 | 1.02 | 0.08 |
| 1000 | 1.05 | 0.31 |
| 2000 | 1.07 | 0.43 |
| 3000 | 1.09 | 0.55 |
| 4000 | 1.11 | 0.61 |
| 5000 | 1.13 | 0.65 |
| 6000 | 1.15 | 0.70 |
| 7000 | 1.16 | 0.75 |
| 8000 | 1.17 | 0.80 |
| 9000 | 1.18 | 0.85 |
| 10000 | 1.19 | 0.93 |
| 12000 | 1.20 | 1.00 |
| 13000 | 1.21 | 1.05 |
| 15000 | 1.23 | 1.09 |
| 18000 | 1.25 | 1.20 |
| 26500 | 1.28 | 1.50 |

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