

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 | |

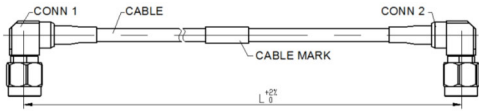
Features

- 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

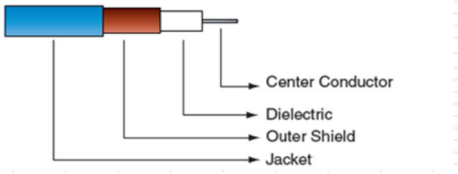
Applications

- 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 |

