

C02 Series (SMA Male-ST to N Male-ST)

SS402, Cable Assembly, 50ohms, DC-18GHz



C02-01-07-"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

| | | |
|---------------------------|--------|------|
| Cable Diameter | 4.20mm | |
| Velocity of Propagation | 70% | |
| Shielding Effectiveness | >110dB | |
| Power Handling at 40°C | 1 GHz | 610W |
| | 2 GHz | 461W |
| | 6 GHz | 224W |
| | 12GHz | 140W |
| | 16 GHz | 118W |
| 18 GHz | 110W | |
| Min. Bending Radius | 21mm | |

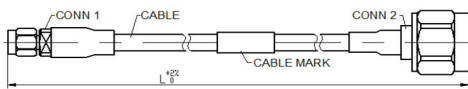
Features

- Flexible
- Super high shielding effectiveness >110dB
- Ideal for interconnect between modules and racks

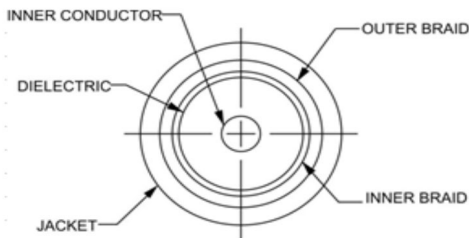
Applications

- Replacement for .141" semi-rigid cables
- Interconnect between modules and racks
- Test systems
- Military and commercial systems

Outline Drawing Unit [mm]



Cable Cross Section



| Cable Construction | |
|--------------------|----------------------------|
| Inner Conductor | SPCW, Solid |
| Dielectric | PTFE |
| Inner Braid | Silver-Plated Copper Strip |
| Outer Braid | Silver-Plated Copper Braid |
| Jacket | FEP |

| Connectors | |
|---------------------------------------|--|
| • Nut, Stainless steel, Passivated | |
| • Body, Stainless steel, Passivated | |
| • 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 - 3 | | 3-6 | | 6-12 | | 12-18 | | DC - 3 | | 3-6 | | 6-12 | | 12-18 | |
| | | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. |
| DC-18 | 0.5 | 0.5 | 0.6 | 0.7 | 0.9 | 0.9 | 1.2 | 1.1 | 1.5 | 1.09 | 1.15 | 1.12 | 1.20 | 1.18 | 1.25 | 1.30 | 1.35 |
| | 1 | 0.8 | 1.0 | 1.2 | 1.4 | 1.8 | 2.1 | 2.2 | 2.6 | | 1.15 | 1.12 | 1.20 | 1.18 | 1.25 | 1.30 | 1.35 |
| | 1.5 | 1.2 | 1.4 | 1.8 | 2.0 | 2.7 | 3.0 | 3.4 | 3.8 | | 1.15 | 1.12 | 1.20 | 1.18 | 1.25 | 1.30 | 1.35 |
| | 2 | 1.6 | 1.8 | 2.4 | 2.6 | 3.5 | 3.8 | 2.5 | 4.9 | | | | | | | | |

Typical Performance Data (C02-01-07-1M)

| Frequency(MHz) | VSWR | Insertion Loss (dB) |
|----------------|------|---------------------|
| 50 | 1.02 | 0.04 |
| 1000 | 1.07 | 0.40 |
| 2000 | 1.08 | 0.58 |
| 3000 | 1.09 | 0.73 |
| 4000 | 1.10 | 0.87 |
| 5000 | 1.11 | 0.99 |
| 6000 | 1.12 | 1.14 |
| 7000 | 1.13 | 1.21 |
| 8000 | 1.14 | 1.31 |
| 9000 | 1.15 | 1.40 |
| 10000 | 1.16 | 1.52 |
| 12000 | 1.18 | 1.78 |
| 13000 | 1.19 | 1.87 |
| 15000 | 1.22 | 2.03 |
| 18000 | 1.30 | 2.21 |

