

C03 Series (SMP Female-RA to SMP Female-RA)

SS405, Cable Assembly, 50ohms, DC-26.5GHz



C03-38-38-"L" (L: Length)

Maximum Ratings

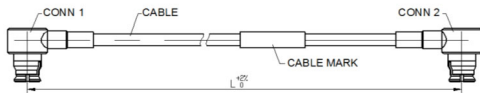
Operating Temperature -55°C to +85°C

Storage Temperature -55°C to +85°C

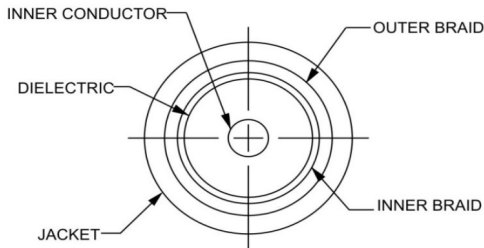
Permanent damage may occur if any of these limits are exceeded

| | | |
|-------------------------|--------|------|
| Cable Diameter | 2.64mm | |
| Velocity of Propagation | 70% | |
| Shielding Effectiveness | >110dB | |
| Power Handling at 20°C | 1 GHz | 108W |
| | 6 GHz | 42W |
| | 12 GHz | 27W |
| | 18 GHz | 23W |
| 26.5 GHz | 16W | |
| Min. Bending Radius | 12.7mm | |

Outline Drawing



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 | |
| <ul style="list-style-type: none"> • Body, Berillium Copper, Gold plated • Center contacts, Berillium 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

- Flexible
- Super high shielding effectiveness >110dB
- Small bend radius good for compact installation
- Ideal for interconnect between modules and racks

Applications

- Replacement for .086" semi-rigid cables
- Interconnect between modules and racks
- Test 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 | 0.2 | 0.6 | 0.7 | 0.8 | 0.9 | 1.1 | 1.3 | 1.2 | 1.4 | 1.15 | 1.20 | 1.23 | 1.30 | 1.32 | 1.35 | 1.41 | 1.50 |
| | 0.3 | 0.7 | 0.8 | 1.1 | 1.2 | 1.2 | 1.4 | 1.6 | 1.8 | | | | | | | | |
| | 0.5 | 1.1 | 1.2 | 1.6 | 1.7 | 1.9 | 2.1 | 2.5 | 2.7 | | | | | | | | |

Typical Performance Data (C03-38-38-0.2M)

| Frequency(MHz) | VSWR | Insertion Loss (dB) |
|----------------|------|---------------------|
| 50 | 1.02 | 0.09 |
| 1000 | 1.08 | 0.20 |
| 2000 | 1.06 | 0.35 |
| 2500 | 1.07 | 0.45 |
| 4000 | 1.09 | 0.57 |
| 5000 | 1.12 | 0.63 |
| 6000 | 1.15 | 0.70 |
| 7000 | 1.08 | 0.73 |
| 8000 | 1.13 | 0.79 |
| 9000 | 1.22 | 0.85 |
| 10000 | 1.15 | 0.91 |
| 12000 | 1.23 | 1.00 |
| 15000 | 1.08 | 1.07 |
| 18000 | 1.32 | 1.13 |
| 26500 | 1.41 | 1.21 |

