

C05 Series (SMA Male-ST to SMA Male-ST)

Armored Test Cable Assembly, 50ohms, DC-26.5GHz



C05-01-01-"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 | 3.0 mm | |
| Velocity of Propagation | 87% | |
| Shielding Effectiveness | >100dB | |
| Power Handling at 40°C | 1 GHz | 32W |
| | 2 GHz | 24W |
| | 6GHz | 14W |
| | 12 GHz | 9W |
| | 18 GHz | 8W |
| 26.5 GHz | 7W | |
| Min. Bending Radius | 1.18" (30mm) | |

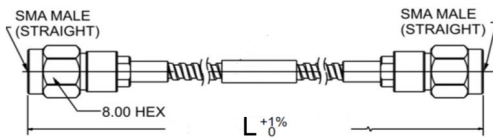
Features

- Frequency DC-26.5 GHz
- Stainless steel armor protected, superior mechanical strength, anti-pressure and anti-torque
- Super flexible with small bend radius
- Excellent shielding effectiveness > 100 dB
- Ideal for application of compact installation space

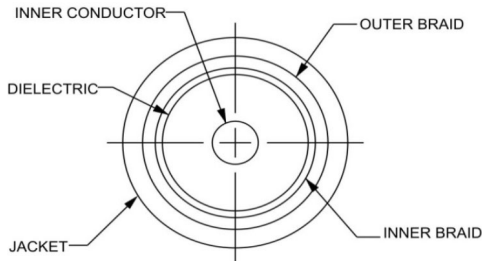
Applications

- Lab and production line test
- RF and Microwave test systems

Outline Drawing



Cable Cross Section



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

| Connectors | |
|--|--|
| • Body, Stainless steel, Passivated | |
| • 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

Electrical Specifications at 25°C

| Freq. (GHz) | Length (m) | Insertion Loss (dB@GHz) | | | | | | | | VSWR (@GHz) | | | | | | | |
|-------------|------------|-------------------------|------|------|------|------|------|---------|------|-------------|------|------|------|------|------|---------|------|
| | | DC - 3 | | 3-6 | | 6-18 | | 18-26.5 | | DC - 3 | | 3-6 | | 6-18 | | 18-26.5 | |
| | | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. |
| DC-26.5 | 0.2 | 0.5 | 0.6 | 0.6 | 0.8 | 1.1 | 1.3 | 1.4 | 1.7 | 1.10 | 1.15 | 1.15 | 1.20 | 1.25 | 1.30 | 1.30 | 1.35 |
| | 0.3 | 0.7 | 0.8 | 0.9 | 1.1 | 1.6 | 1.8 | 1.9 | 2.2 | | | | | | | | |
| | 0.5 | 1.0 | 1.1 | 1.4 | 1.6 | 2.5 | 2.7 | 3.1 | 3.4 | | | | | | | | |

Typical Performance Data (C05-01-01-0.3M)

| Frequency(MHz) | VSWR | Insertion Loss (dB) |
|----------------|------|---------------------|
| 50 | 1.02 | 0.05 |
| 1000 | 1.05 | 0.39 |
| 2000 | 1.08 | 0.55 |
| 3000 | 1.10 | 0.68 |
| 4000 | 1.12 | 0.79 |
| 5000 | 1.14 | 0.88 |
| 6000 | 1.15 | 0.95 |
| 8000 | 1.17 | 1.14 |
| 10000 | 1.19 | 1.27 |
| 12000 | 1.20 | 1.38 |
| 18000 | 1.25 | 1.63 |
| 26500 | 1.30 | 1.91 |

