

T18 Series (SMA Male-ST to SMA Male-ST)

High Reliable & Durable Precision Test Cable Assembly, 50ohms, DC-26.5GHz



T18-01-01-"L" (L: Length)

Maximum Ratings

| | |
|---|----------------|
| Operating Temperature | 23°C± 5°C |
| Storage Temperature | -55°C to +85°C |
| <i>Permanent damage may occur if any of these limits are exceeded</i> | |

| | | |
|---------------------------|--------|------|
| Cable Diameter | 4.60mm | |
| Velocity of Propagation | 76% | |
| Shielding Effectiveness | >90dB | |
| Power Handling at 40°C | 1 GHz | 590W |
| | 2 GHz | 414W |
| | 6 GHz | 221W |
| | 12GHz | 172W |
| | 18 GHz | 153W |
| 26.5 GHz | 126W | |
| Min. Bending Radius | 20mm | |

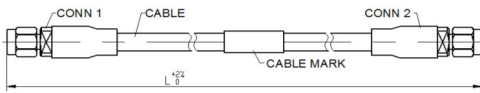
Features

- Phase and amplitude stable
- Low loss and super flexible
- Stainless steel connector for long mating-cycles life
- High reliability approved by 20,000 strict bending cycles
- Excellent shielding effectiveness > 95 dB

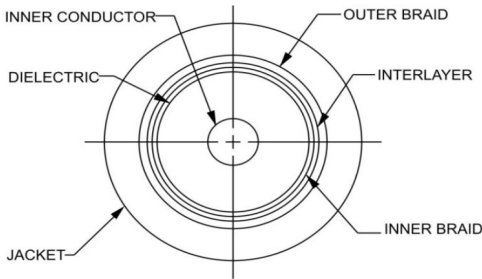
Applications

- Lab and production line test
- Connection between racks/equipments
- Military and commercial RF/microwave systems

Outline Drawing Unit [mm]



Cable Cross Section



| Cable Construction | |
|--------------------|-----|
| Inner Conductor | - |
| Dielectric | - |
| Inner Braid | - |
| Interlayer | - |
| Outer Braid | - |
| Jacket | FEP |

Connectors

- Nut, Stainless steel, Passivated
- Body, Stainless steel, Passivated
- Center contacts, Brass Copper, Gold plated
- Dielectric, PEI, 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 | 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 | 0.5 | 0.6 | 0.7 | 0.6 | 0.8 | 0.7 | 1.0 | 1.0 | 1.3 | 1.12 | 1.20 | 1.18 | 1.25 | 1.21 | 1.25 | 1.25 | 1.30 |
| | 1 | 0.8 | 1.0 | 1.2 | 1.4 | 1.3 | 1.6 | 1.6 | 2.0 | | | | | | | | |
| | 1.5 | 1.2 | 1.4 | 1.7 | 1.9 | 2.0 | 2.3 | 2.4 | 2.8 | | | | | | | | |

Typical Performance Data (T18-01-01-M)

| Frequency(MHz) | VSWR | Insertion Loss (dB) |
|----------------|------|---------------------|
| 50 | 1.02 | 0.03 |
| 1000 | 1.05 | 0.28 |
| 2000 | 1.07 | 0.39 |
| 3000 | 1.09 | 0.47 |
| 4000 | 1.10 | 0.56 |
| 5000 | 1.11 | 0.65 |
| 6000 | 1.12 | 0.76 |
| 7000 | 1.13 | 0.81 |
| 8000 | 1.14 | 0.87 |
| 9000 | 1.15 | 0.95 |
| 10000 | 1.16 | 1.02 |
| 12000 | 1.18 | 1.16 |
| 15000 | 1.20 | 1.27 |
| 18000 | 1.21 | 1.33 |
| 26500 | 1.25 | 1.59 |

