成都巨人微波
TITAN MICROWAVE INC.
- A Professional RF & Microwave Components Supplier -

# TMR100

## 50 Ohm Communications Coaxial Cable
## DC～3GHz

## Features

- Low VSWR
- Low Loss
- Good Flexibility

## Applications

- RF Systems
- Wireless Communications

## Specifications

### Electrical

| | |
|---|---|
| **Operating Frequency** | DC～3GHz |
| **Impedance** | 50±2Ω |
| **Capacitance** | 101±5 pF/M |
| **Velocity of Propagation** | 66% |
| **Inner Conductor DC Resistance** | 108 Ω/km |
| **Outer Conductor DC Resistance** | 31.2 Ω/km |
| **Shielding Effectiveness** | ＞90dB |
| **Insulation Resistance** | 1000 MΩ·km |
| **Dielectric Strength** | 500 Vdc |
| **Voltage Withstand of Jacket** | 2000 Vac |
| **Peak Power** | 0.6kW |
| **Tensile Strength** | 4.0kg |

### Environmental & Mechanical

| | |
|---|---|
| **Min Bending Radius/Single** | 14mm |
| **Min Bending Radius/Repeated** | 28mm |
| **Temperature Range** | -20℃～+80℃ |

### Attenuation & Average Power@20℃(sea level)

| **Frequency**(MHz) | 30 | 50 | 150 | 200 | 220 | 450 | 900 | 1500 | 1800 | 2000 | 2500 | 3000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Attenuation**(dB/100m) | 13 | 16.7 | 29.4 | 34.1 | 35.8 | 51.9 | 74.9 | 98.7 | 109 | 115.5 | 130.6 | 144.6 |
| **Power Handling**(W) | 230 | 180 | 100 | 80 | 80 | 60 | 50 | 40 | 30 | 20 | 10 | 70 |

### Construction

| | | |
|---|---|---|
| **Inner Conductor** | Solid Bare Copper | 0.46mm |
| **Dielectric** | Solid PE | 1.52mm |
| **Inner Shield** | Aluminum Tape | 1.65mm |
| **Outer Shield** | Tinned Copper Wire Braid | 2.05mm |
| **Jacket** | Black PVC | 2.80mm |

### Outline

## Ordering Information

| **TMR100** | - | **3** | - | **XXXX** | - | **1** |
|---|---|---|---|---|---|---|
| Cable Code | | | | | | |
| Max Frequency(GHz) | | | | | | |
| RF Connectors | | | | | | |
| Overall Length(meter(s)) | | | | | | |

*For other connector options, contact factory.*