

# TB1000

## High Power Low Loss Cable Assembly DC~10GHz

**TITAN MICROWAVE INC.**



### Features

- Frequency Range DC~10GHz
- Low PIM
- Low Loss
- High Power

### Applications

- Radar
- Wireless Communications
- Interconnection
- Avionics

## Specifications

### Electrical

- Operating Frequency DC~10GHz
- Cutoff Frequency 15GHz
- Impedance 50Ω
- Velocity of Propagation 76%
- Screening Effectiveness 90dB min
- PIM -155dBc
- Voltage Rating 2500V, DC

### Environmental & Mechanical

- Operating Temperature -55°C~+200°C
- Min Bending Radius/Single 47.00 mm
- Min Bending Radius/Repeated 93.00 mm
- Weight 193g/m

### Attenuation & Power

Frequency(GHz)	1	2	3	4	6	7	8	9	10
Attenuation(dB/100m)	14.7	21.1	26.2	30.6	38.2	41.5	44.7	47.7	50.6
Power Handling(W)	1839	1279	1031	883	709	651	605	567	534

### Construction

 Inner Conductor	Solid Silver-plated Copper	2.44mm
 Dielectric	Low Density PTFE	7.24mm
 Inner Shield	Silver-plated Copper Tape	7.48mm
 Interlayer Shield	Aluminum Foil	7.61mm
 Outer Shield	Silver-plated Copper Braid	8.19mm
 Jacket	Blue FEP	9.3mm

### Outline



## Ordering Information

T B 1 0 0 0 - 1 0 - S S F - 1

Cable Code

Operating Frequency(GHz)

RF Connectors(S: SMA)

SS: SMA male to SMA male

SSF: SMA male to SMA female

SFSF: SMA female to SMA female

Overall Length(meter(s))