

# TB550

## High Power Low Loss Cable Assembly DC~18GHz

**TITAN MICROWAVE INC.**



### Features

- Frequency Range DC~18GHz
- Low PIM
- Low Loss
- High Power

### Applications

- Radar
- Wireless Communications
- Interconnection
- Avionics

## Specifications

### Electrical

- Operating Frequency DC~18GHz
- Cutoff Frequency 35GHz
- Impedance 50Ω
- Velocity of Propagation 76%
- Screening Effectiveness 90dB min
- PIM -155dBc
- Voltage Rating 1000V, DC

### Environmental & Mechanical

- Operating Temperature -55°C~+200°C
- Min Bending Radius/Single 22.00 mm
- Min Bending Radius/Repeated 55.00 mm
- Weight 72g/m

### Attenuation & Power

| Frequency(GHz)       | 1    | 2    | 3    | 6    | 8    | 10   | 12.4 | 16    | 18    |
|----------------------|------|------|------|------|------|------|------|-------|-------|
| Attenuation(dB/100m) | 26.3 | 37.6 | 46.3 | 66.6 | 77.5 | 87.3 | 97.9 | 112.3 | 119.8 |
| Power Handling(W)    | 810  | 567  | 460  | 320  | 275  | 244  | 218  | 190   | 178   |

### Construction

|  |                            |        |
|--|----------------------------|--------|
|  Inner Conductor   | Solid Silver-plated Copper | 1.45mm |
|  Dielectric        | Low Density PTFE           | 4.18mm |
|  Inner Shield      | Silver-plated Copper Tape  | 4.42mm |
|  Interlayer Shield | Aluminum Foil              | 4.55mm |
|  Outer Shield      | Silver-plated Copper Braid | 4.95mm |
|  Jacket            | FEP                        | 5.45mm |

### Outline



## Ordering Information

|                                |   |     |   |       |   |   |
|--------------------------------|---|-----|---|-------|---|---|
| T B 5 5 0                      | - | 1 8 | - | 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))       |   |     |   |       |   |   |