

TA800

Low Loss Phase Stable Cable Assembly DC~18GHz

TITAN MICROWAVE INC.



Features

- Low Loss
- High Phase Stability
- Excellent Performance
- Well Durability
- Suitable for All Kinds of Harsh Environment

Applications

- Laboratory
- Wireless Communications
- Phased Array Radar
- Avionics

Specifications

Electrical

- Operating Frequency DC~18GHz
- Cutoff Frequency 18GHz
- Impedance 50Ω
- Velocity of Propagation 83%
- Screening Effectiveness 90dB min
- PIM -155dBc
- Voltage Rating 2500V, DC
- Phase Stability <750ppm@-55°C~+85°C

Environmental & Mechanical

- Operating Temperature -55°C~+165°C
- Min Bending Radius/Single 39.00 mm
- Min Bending Radius/Repeated 79.00 mm
- Weight 130g/m

Attenuation@25°C & Power@40°C (sea level)

| Frequency(GHz) | 1 | 2 | 3 | 6 | 8 | 10 | 12.4 | 16 | 18 |
|----------------------|------|------|------|------|------|------|------|------|-----|
| Attenuation(dB/100m) | 14.7 | 21 | 26 | 37.3 | 43.4 | 48.8 | 54.8 | 62.8 | 67 |
| Power Handling(W) | 1812 | 1270 | 1030 | 717 | 616 | 547 | 488 | 425 | 399 |

Construction

| | | |
|-----------------|----------------------------|---------|
| Inner Conductor | Solid Silver-plated Copper | 2.30 mm |
| Dielectric | Low Density PTFE | 6.20 mm |
| Inner Shield | Silver-plated Copper Tape | 6.44 mm |
| Outer Shield | Silver-plated Copper Braid | 7.20 mm |
| Jacket | FEP | 7.90 mm |

Outline



Ordering Information

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| TA800 - 18 - NFNF - 1 |
| Cable Code |
| Operating Frequency(GHz) |
| RF Connectors(N:type-N) NN: N male to N male NNF: N male to N female NFnF: N female to N female |
| Overall Length(meter(s)) |