

TA300

Low Loss Phase Stable Cable Assembly
DC~50GHz

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~50GHz
- Cutoff Frequency 60GHz
- Impedance 50Ω
- Velocity of Propagation 82%
- Screening Effectiveness 90dB min
- PIM -155dBc
- Voltage Rating 500V, DC
- Phase Stability <750ppm@-55°C~+85°C

Environmental & Mechanical

- Operating Temperature -55°C~+165°C
- Min Bending Radius/Single 16.00 mm
- Min Bending Radius/Repeated 31.00 mm
- Weight 27g/m

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

Frequency(GHz)	1	2	3	6	8	10	12.4	18	26.5	40	50
Attenuation(dB/100m)	46.8	66.6	81.9	117.1	135.9	152.6	170.8	207.9	255.4	318.9	360.1
Power Handling(W)	407	286	232	163	140	125	111	92	75	60	53

Construction

Inner Conductor	Solid Silver-plated Copper	0.70 mm
Dielectric	Low Density PTFE	1.93 mm
Inner Shield	Silver-plated Copper Tape	2.09 mm
Outer Shield	Silver-plated Copper Braid	2.66 mm
Jacket	PFA	3.10 mm

Outline



Ordering Information

TA300 - 50 - 44F - 1

Cable Code

Operating Frequency(GHz)

RF Connectors(K:2.4mm)

44: 2.4mm male to 2.4mm male

44F: 2.4mm male to 2.4mm female

4F4F: 2.4mm female to 2.4mm female

Overall Length(meter(s))