

TA500W

Multi-layer Low Loss Phase Stable Flexible Cable Assembly DC~26.5GHz

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~26.5GHz
- Cutoff Frequency 29GHz
- Impedance 50Ω
- Velocity of Propagation 83%
- Screening Effectiveness 90dB min
- PIM -155dBc
- Voltage Rating 1500V, DC
- Phase Stability <750ppm@-55°C~+85°C

Environmental & Mechanical

- Operating Temperature -55°C~+165°C
- Min Bending Radius/Single 27.00 mm
- Min Bending Radius/Repeated 54.00 mm
- Weight 63g/m

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

Frequency(GHz)	1	2	3	6	8	10	12.4	18	26.5
Attenuation(dB/100m)	23.4	33.3	41	58.5	67.9	76.3	85.4	103.8	127.5
Power Handling(W)	919	646	525	368	317	282	252	207	169

Construction

Inner Conductor	Solid Silver-plated Copper	1.45 mm
Dielectric	Low Density PTFE	3.99 mm
Inner Shield	Silver-plated Copper Tape	4.19 mm
Interlayer Shield	Low Density PTFE	4.45 mm
Outer Shield	Silver-plated Copper Braid	4.85 mm
Jacket	Gray FEP	5.40 mm

Outline



Ordering Information

TA500W	-	26.5	-	SFSF	-	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))						

For other connector options, contact factory.