

TA400W

Multi-layer Low Loss Phase Stable Flexible Cable Assembly DC~40GHz

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~40GHz
- Cutoff Frequency 41GHz
- Impedance 50Ω
- Velocity of Propagation 82%
- 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 21.00 mm
- Min Bending Radius/Repeated 42.00 mm
- Weight 37g/m

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

| Frequency(GHz) | 1 | 2 | 3 | 6 | 8 | 10 | 12.4 | 18 | 26.5 | 40 |
|----------------------|------|------|------|------|------|-------|-------|-------|-------|-------|
| Attenuation(dB/100m) | 33.5 | 47.5 | 58.3 | 82.8 | 95.8 | 107.2 | 119.7 | 144.7 | 176.4 | 218.1 |
| Power Handling(W) | 634 | 447 | 365 | 257 | 222 | 198 | 178 | 147 | 120 | 97 |

Construction

| | | |
|--|----------------------------|---------|
|  Inner Conductor | Solid Silver-plated Copper | 1.05 mm |
|  Dielectric | Low Density PTFE | 2.85 mm |
|  Inner Shield | Silver-plated Copper Tape | 3.05 mm |
|  Interlayer Shield | Low Density PTFE | 3.30 mm |
|  Outer Shield | Silver-plated Copper Braid | 3.65 mm |
|  Jacket | Blue PFA | 4.20 mm |

Outline



Ordering Information

| |
|--|
| TA400W - 40 - KFKF - 1 |
| Cable Code |
| Operating Frequency(GHz) |
| RF Connectors(K:2.92mm) KK: 2.92mm male to 2.92mm male KKF: 2.92mm male to 2.92mm female KFKF: 2.92mm female to 2.92mm female |
| Overall Length(meter(s)) |

For other connector options, contact factory.