

# TA300

## Low Loss Phase Stable Cable Assembly DC~50GHz



### 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	0.70mm
Dielectric	Low Density PTFE	1.93mm
Inner Shield	Silver-plated Copper Tape	2.09mm
Outer Shield	Silver-plated Copper Braid	2.74mm
Jacket	PFA	3.10mm

#### Outline



### Ordering Information

TA300 - 50 - 44F - 1

Cable

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))