

## PhaseTrack® 047

### MICRO COAXIAL CABLE

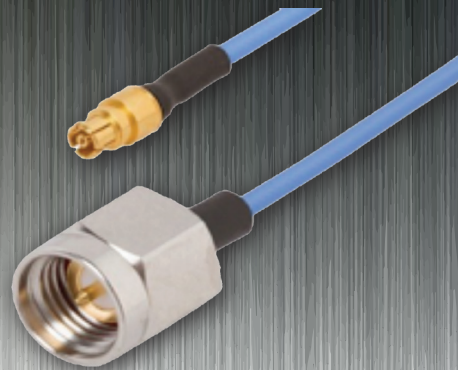
PT-047 is a compact, phase stable, highly flexible, micro coaxial cable. Originally designed for space flight applications, this high-performance cable easily accommodates densely packed in-the-box applications.

### Environmental and Mechanical Properties

<b>Diameter</b>	0.060" max
<b>Minimum Bend Radius</b>	0.25" nominal (centerline)
<b>Operating Temperature</b>	-65°C to +150°C

<b>Impedance</b>	50 ohm nominal
<b>Capacitance</b>	24.6 pF/ft nominal
<b>Velocity of Propagation</b>	81% nominal
<b>Delay</b>	1.25 nsec/ft nominal
<b>Shielding</b>	90 dB minimum
<b>Insertion Loss</b>	1.72 dB/ft @ 18 GHz

Frequency (Typical)	Attenuation dB/ft (+25°C)	Attenuation dB/m (+25°C)
18 GHz	1.72	5.64
28.5 GHz	2.22	7.28
31 GHz	2.32	7.61
40 GHz	2.68	8.79



### FEATURES

- High performance in a compact size
- Phase stable over temperature utilizing TF4® technology
- Highly flexible and small bend radius
- Broad frequency range up to 70 GHz
- Flexible alternative to 047 Semi-Rigid
- Perfect for multi-pin connectors

### APPLICATIONS

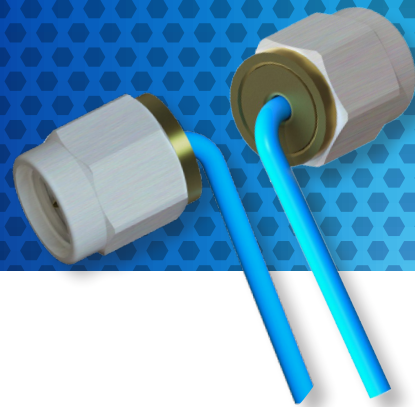
**Aerospace and Defense**

**Test and Measurement**

**5G and Telecom**

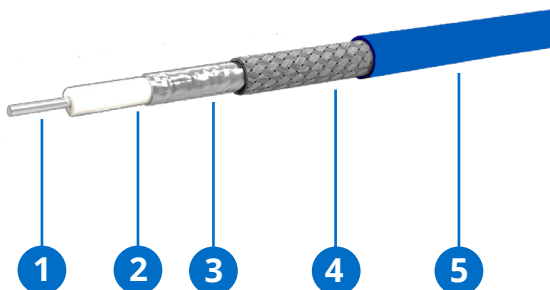
**Medical Equipment**

# PT-047 Assemblies



## Connectors

- SMA
- SMP
- 2.92 mm
- 2.4 mm
- TLMP
- Semi-rigid



- |   |                         |                                 |
|---|-------------------------|---------------------------------|
| 1 | <b>Center Conductor</b> | Silver Plated CopperClad Steel  |
| 2 | <b>Dielectric</b>       | TF4® Dielectric                 |
| 3 | <b>Shield</b>           | Silver Plated Copper Flat Braid |
| 4 | <b>Outer Braid</b>      | Silver Plated Copper            |
| 5 | <b>Jacket</b>           | Blue FEP                        |



Sold as fully tested  
assemblies



Used in current Space  
Flight applications.  
Suited for conditions  
where "failure is not  
an option".

## WORLD HEADQUARTERS

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