# PhaseTrack<sup>®</sup>047

#### Low-Loss Micro Coaxial

PT-047 is a low-loss, highly flexible, foam-core micro coaxial cable. Originally designed for space satellite programs, this high-performance cable has many applications across multiple markets. It has a broad frequency range and strong durability making it ideal for medical, test equipment, and many other RF applications.

#### **Features:**

- High performance in a compact size
- Extremely rugged and low loss
- Broad frequency range up to 70 GHz
- Flex tested to over a million cycles
- In-the-box flexible alternative to 047 Semi-Rigid

#### **Specifications**

-	I.	05 10 150 0
	Units	
Maximum Outer Diameter	in (mm)	0.065 (1.651)
Maximum Weight/1000 Feet	lb (kg)	5.60 (2.54)
Static Bend Radius	in (mm)	0.25 (6.35)
Dynamic Bend Radius	in (mm)	0.75 (19.05)
Velocity of Propagation	%	77
Max. Frequency	GHz	70
Capacitance	pF/ft (pF/m)	26.9 (88.25)

#### Calculation

 $IL = (K1 \times V(f) + K2 \times f) \times Cable Length$ 

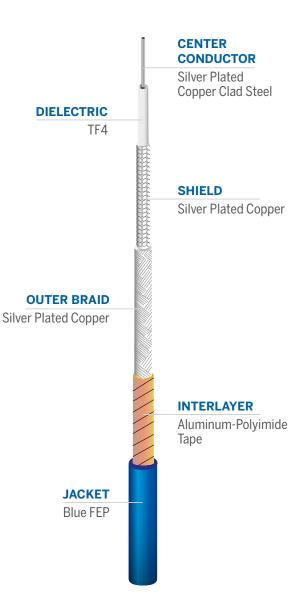


Use  ${\bf K}$  values with matching length unit

Impedance 50 Ohms Op Temp -85 to 302°F

65 to 150°C

K values	dB/ft	dB/m
K1	0.011767	0.038607
K2	0.00008	0.00025



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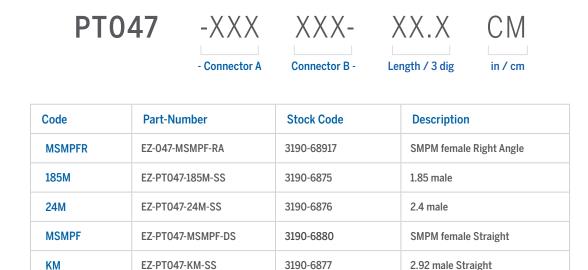
Low-Loss Micro Coaxial

#### **Ordering Guide**

SM

SMPF

**SMPSF** 



3190-6878

3190-6878

3190-6898



EZ-PT047-SM-LW-SS

EZ-PT047-SMPF-DS

EZ-PT047-SMPSF-DS



SMA male stainless

SMP female Straight

SMPS female Straight

Global manufacturing capability: US and Asia.

Assembled and tested assemblies provide assured performance.

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### **Mouser Electronics**

Authorized Distributor

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