PhaseTrack® 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.



- 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





Op Temp -85 to 302°F -65 to 150°C

···	HILL

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

Cable Insertion Loss f = Frequency (MHz) Use K values with matching length unit

K values	dB/ft	dB/m
K1	0.011767	0.038607
K2	0.000008	0.00025



CENTER CONDUCTOR

Silver Plated Copper Clad Steel

DIELECTRIC

TF4

SHIELD

Silver Plated Copper

OUTER BRAID

Silver Plated Copper

INTERLAYER

Aluminum-Polyimide Tape

JACKET

Blue FEP



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Ordering Guide

PTO47 -XXX XXX- XX.X

CM

- Connector A

Connector B -

Length / 3 dig

Code	Part-Number	Stock Code	Description
MSMPFR	EZ-047-MSMPF-DS	3190-6817	SMPM female Right Angle
185M	EZ-PT047-185M-SS	3190-6875	1.85 male
24M	EZ-PT047-24M-SS	3190-6876	2.4 male
MSMPF	EZ-PT047-MSMPF-DS	3190-6880	SMPM female Straight
KM	EZ-PT047-KM-SS	3190-6877	2.92 male Straight
SM	EZ-PT047-SM-SS	3190-6878	SMA male stainless
SMPF	EZ-PT047-SMPF-DS	3190-6879	SMP female Straight
SMPSF	EZ-PT047-SMPSF-DS	3190-6898	SMPS female straight
SMPSFR	EZ-PT047-SMPSF-RA-DS	3190-6906	SMPS female right angle



Global manufacturing capability: US and Asia.



Assembled and tested assemblies provide assured performance.

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