

PhaseTrack® 047

LOW-LOSS MICRO COAXIAL CABLE

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.

Specifications

	Units	
Diameter max	in (mm)	0.60 (1.52)
Bend Radius (centerline)	in (mm)	0.25 (6.35)
Operating Temperature	°F	-85° to 302°
	(°C)	(-65° to 150°)
Capacitance	pF/ft (pF/m)	25.4 (83.3)
Delay	ns/ft (ns/m)	1.27 (4.17)
Insertion Loss	dB/ft (dB/m) @18GHz	1.72 (0.52)
Velocity of Propagation		81%
Impedence	Ohm	50
Shielding	dB	90

Cable Insertion Loss

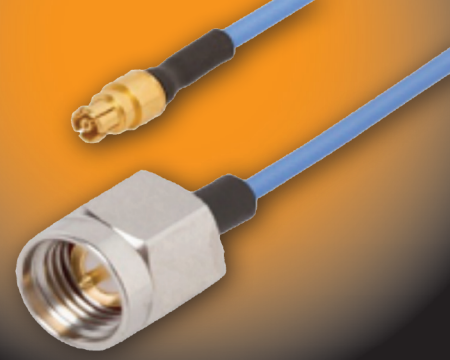
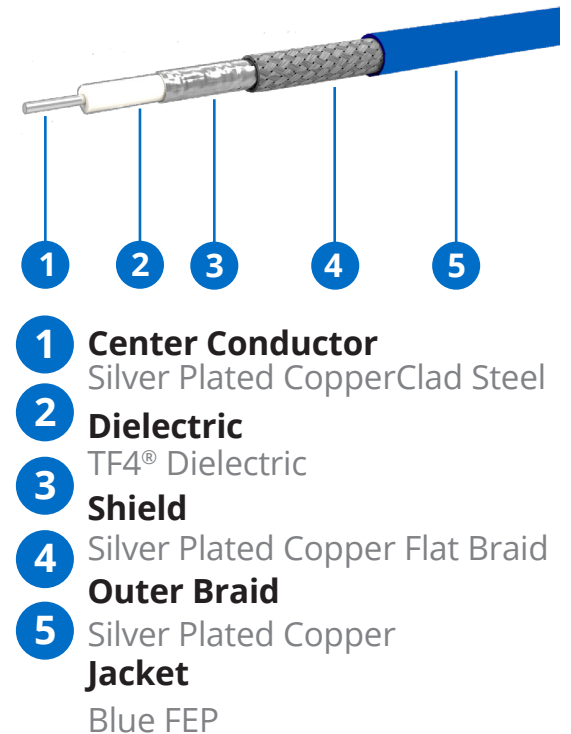
Frequency	dB/ft (@77°F)	dB/m (@25°C)
18 GHz	1.72	5.64
28.5 GHz	2.22	7.28
31 GHz	2.32	7.61
40 GHz	2.68	8.79

FEATURES

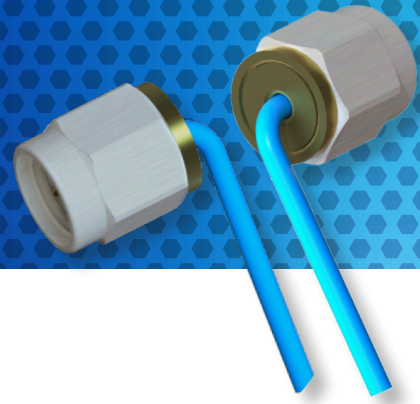
- High performance in a compact size
- Extremely rugged and low loss
- Broad frequency range up to 70 GHz
- Flex tested to over a million cycles
- In-the-box flexible alternative to 047 Semi-Rigid

KEY APPLICATIONS

- Aerospace & Defense
- Test & Measurement
- 5G & Telecom
- Medical Equipment

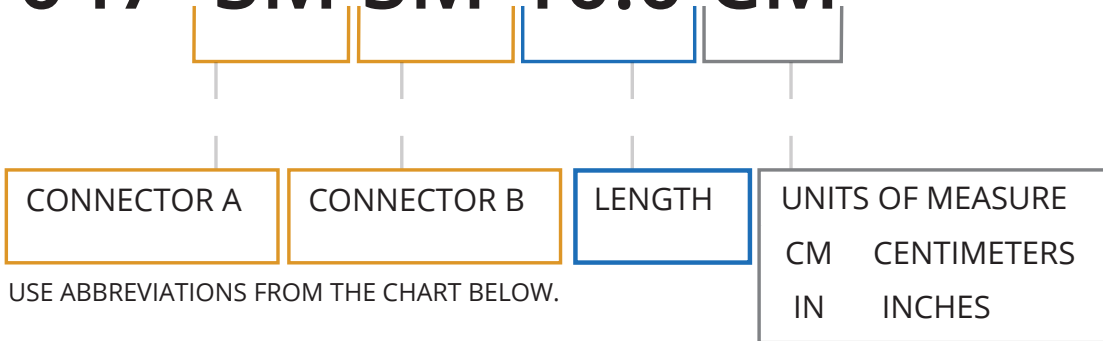


PT-047 Assemblies



Ordering Guide

PT047- SM SM-10.0 CM



Abbreviation	Model Number	Part Number	Description	VSWR max
MSMPFR	EZ-047-MSMPF-RA	3190-6817	SMPM female Right Angle	1.50 @ DC-40 GHz
185M	EZ-PT047-185M-SS	3190-6875	1.85 male	1.50 @ DC-67 GHz
24M	EZ-PT047-24M-SS	3190-6876	2.4 male	1.50 @ DC-50 GHz
MSMPF	EZ-PT047-MSMPF-DS	3190-6880	SMPM female Straight	1.50 @ DC-65 GHz
KM	EZ-PT047-KM-SS	3190-6877	2.92 male Straight	1.50 @ DC-40 GHz
SM	EZ-PT047-SM-LW-SS	3190-6878	SMA male stainless	1.50 @ DC-26.5 GHz
SMPF	EZ-PT047-SMPF-DS	3190-6879	SMP female Straight	1.50 @ DC-40 GHz
SMPSF	EZ-PT047-SMPSF-DS	3190-6898	SMPS female Straight	1.50 @ DC-65 GHz



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



Global manufacturing capability: US, and Asia.



Sold as fully tested assemblies

WORLD HEADQUARTERS

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