

# PhaseTrack® 047

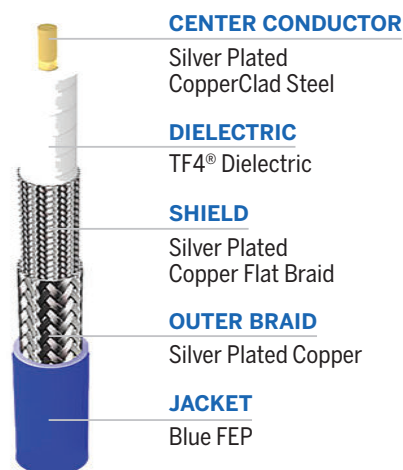
## Low-Loss Micro Coaxial



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.

### 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

$\Omega$  Impedance  
50 Ohms

Op Temp  
-40 to 185°F  
-40 to 85°C

	Units	402	401
Diameter	in (mm)	0.160 (4.06)	0.265 (6.73)
Center Conductor	in (mm)	0.037 (0.94)	0.064 (1.63)
Dielectric	in (mm)	0.113 (2.87)	0.208 (5.28)
Shield	in (mm)	0.123 (3.12)	0.218 (5.54)
Outer Braid	in (mm)	0.138 (3.51)	0.240 (6.10)
Minimum Bend Radius	in (mm)	0.50 (12.7)	0.75 (19.05)
Weight	lb/1000 ft (kg/1000 m)	31.0 (46.1)	78.0 (116.1)
Velocity of Propagation	%	76	72
Capacitance	pF/ft (pF/m)	26.7 (87.6)	28.2 (92.5)
Shielding	dB	>80	>80

### Attenuation - db/100ft (dB/100m)

	402	401
450	8.24 (27.0)	5.43 (17.8)
600	9.63 (31.6)	6.43 (21.1)
900	12.03 (39.4)	8.21 (26.9)
1900	18.24 (59.8)	13.09 (42.9)
2100	19.30 (63.3)	13.96 (45.8)
2500	21.32 (69.9)	15.63 (51.2)
3500	25.86 (84.8)	19.51 (64.0)
4900	31.44 (103.1)	24.49 (80.3)
5800	34.72 (113.9)	27.50 (90.2)

### Ordering Guide

PT047 - CODE CODE - 10.0 CM

- Connector A                      Connector B -                      Length / 3 dig                      in / cm

CODE	Model Number	Description	Part Number	VSWR max
MSMPFR	EZ-047-MSMPF-RA	SMPM female Right Angle	3190-68917	1.50 @ DC-40 GHz
185M	EZ-PT047-185M-SS	1.85 male	3190-6875	1.50 @ DC-67 GHz
24M	EZ-PT047-24M-SS	2.4 male	3190-6876	1.50 @ DC-50 GHz
MSMPF	EZ-PT047-MSMPF-DS	SMPM female Straight	3190-6880	1.50 @ DC-65 GHz
KM	EZ-PT047-KM-SS	2.92 male Straight	3190-6877	1.50 @ DC-40 GHz
SM	EZ-PT047-SM-LW-SS	SMA male stainless	3190-6878	1.50 @ DC-26.5 GHz
SMPF	EZ-PT047-SMPF-DS	SMP female Straight	3190-6878	1.50 @ DC-40 GHz
SMPSF	EZ-PT047-SMPSF-DS	SMPS female Straight	3190-6898	1.50 @ DC-65 GHz



Global manufacturing capability: US, and Asia.



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



Sold as fully tested assemblies

Rev.: 10/2021