

# TF-047

## Micro-Coaxial Cable



TF-047 is a versatile micro-coaxial cable ideal for high-density applications. Available in bulk or cable assembly with a wide selection of interfaces, TF-047 offers high performance and reliability in a compact footprint.

### Features:

- Optimal SWAP-C cable solution
- Compatible with a large selection of connectors
- Flexible and compact for easy routing

### Specifications

$\Omega$  Impedance  
50 Ohms

Op Temp  
-85 to 302°F  
-65 to 150°C

Units

Maximum Outer Diameter	in (mm)	0.0550 (1.397)
Maximum Weight/1000 Feet	lb (kgs)	3.77 (1.71)
Static Bend Radius	in (mm)	0.20 (5.08)
Dynamic Bend Radius	in (mm)	0.40 (10.16)
Velocity of Propagation	%	70
Max. Frequency	GHz	50
Capacitance	pF/ft (pF/m)	28.83 (94.59)

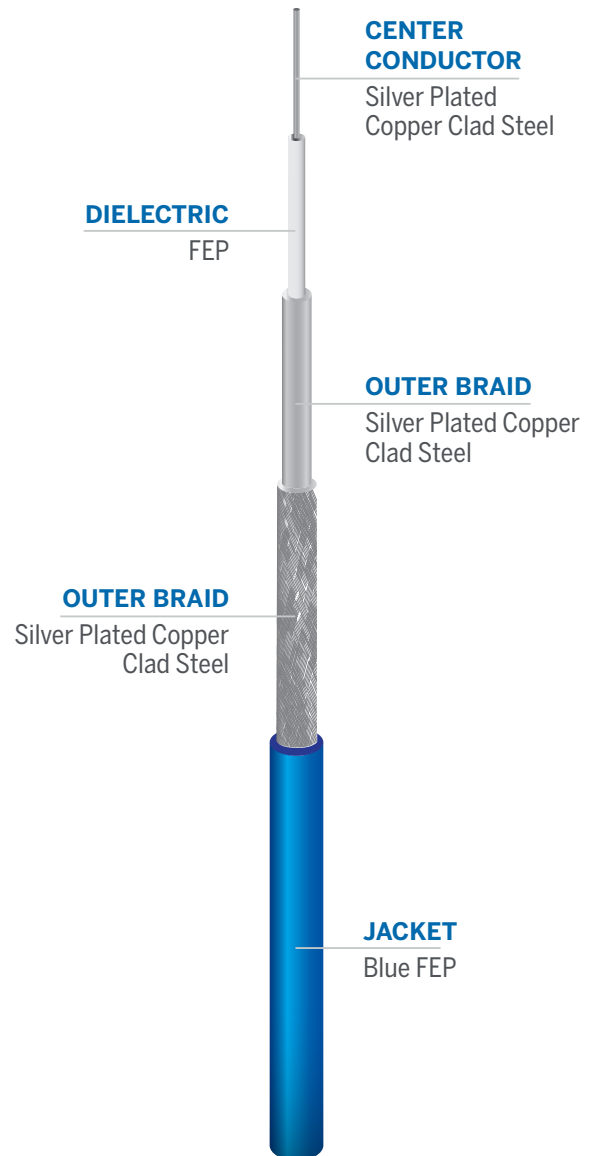
### Calculation

$$IL = (K1 \times \sqrt{f}) + (K2 \times f) \times \text{Cable Length}$$

Cable Insertion Loss  
f = Frequency (MHz)

Use K values with matching length unit

K values	dB/ft	dB/m
K1	.012253	.040202
K2	.000018	.000060



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## Ordering Guide

TF047    -XXX    XXX-    XX.X    CM  
                  └───┘    └───┘    └───┘    └───┘  
                  - Connector A    Connector B -    Length / 3 dig    in / cm

Code	Part-Number	Stock Code	Description
MSMPF	EZ-PT047-MSMPF-RA-DS	3190-6817	Mini SMP, female, right angle
185M	EZ-PT047-185M-SS	3190-6875	1.85 mm, male, straight
24M	EZ-PT047-24M-SS	3190-6876	2.4 mm, male, straight
KM	EZ-PT047-KM-SS	3190-6877	2.9 mm, male, straight
SM	EZ-PT047-SM-SS	3190-6878	SMA, male, straight
SMPF	EZ-PT047-SMPF-DS	3190-6879	SMP, female, straight
MSMPF	EZ-PT047-MSMPF-DS	3190-6880	SMPM, female, straight
SMPSF-RA	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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