

# CC047

Hand-formable .047 (1.2mm)

## Electrical

Impedance (Ω):	50 Ohms
Rated Frequency: (note 1) (/<?php echo JUri::getInstance()); ?>#note1)	DC- 20 GHz
Effective Frequency: (note 2) (/<?php echo JUri::getInstance()); ?>#note2)	DC- 65 GHz
Velocity of Propagation:	70%
Shielding Effectiveness:	>100 dB
Capacitance:	29 pF/ft



## Mechanical

Minimum Bend Radius:	.100 in
Weight:	0.0031 lbs/ft

## Construction

Cable Layer	Diameter In. (mm)	Cable Material
Center Conductor	.011	SPCW (Silver-plated Copper-clad Steel)
Dielectric	.034	PTFE (Polytetrafluoroethylene)
Outer-shield	.047	Tin-dipped Copper Braid

Sample Frequency (GHz)	Assembly Insertion Loss (dB/100ft)	Power Handling (Watts-Typical)
0.5	25.81	81.73
1.0	37.07	41.68
2.0	53.38	28.30
3.0	66.34	23.11
4.0	76.85	20.01
6.0	96.04	16.34
8.0	112.77	14.15
11.0	132.60	12.07
12.0	139.37	11.55
18.0	173.08	9.17
26.5	215.77	7.28
32.0	244.20	6.61
40.0	280.12	5.71
50.0	322.05	4.99
65.0	380.61	4.14

Dimensions: Inches (m or mm)  
Fractions:  $\pm 1/32$   
Decimals:  $x.xx \pm .01'' - x.xxx \pm .005''$   
Angles:  $\pm 1^\circ$



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**Note 1:** The Rated Frequency is as specified in MIL-DTL-17 (<https://www.landandmaritime.dla.mil/Programs/MilSpec/ListDocs.aspx?BasicDoc=MIL-DTL-17>) and/or the manufacturers specification.

**Note 2:** Effective Frequency, where different from the Rated Frequency, is a realistic measure of the actual performance of this cable. The Effective Frequency is based on the theoretical and demonstrated performance of this cable.

For Flexible and Hand-formable cable, the cable may exhibit periodic inconsistencies over very long lengths. In short lengths, which are typical in the large majority of applications, these anomolous sections of cable are discarded. The resulting performance of the cable assembly is much higher than the rated frequency of the raw cable. Semi-rigid cable does not, typically, exhibit these periodic inconsistencies.