

Levitate™ 047



Levitate™ 047 is engineered to meet the modern demands of both military and commercial RF systems. Offering an extremely flexible construction with minimal signal loss, these assemblies are built to support critical RF runs both inside and outside the box. With a budget-friendly price and product available in distribution, Levitate assemblies are ideal for UAV platforms and all other applications requiring the perfect blend of cost, performance, and lead time.

Features

- Ultra Flexible Designated for Tight Spaces
- High Strength, Silver-Plated, Copper-Clad Steel Conductor
- High Strength, Silver-Plated, Copper-Clad Steel Outer Conductor
- Chemical and Abrasion Resistant FEP Jacket

Specifications

Impedance 50 Ohms	Op Temp -85 to +302°F -65 to +150°C
Units	

Diameter	in (mm)	0.064 (1.626)
Weight	lb/ft (kg/m)	0.0046 (0.0068)
Minimum Static Bend Radius	in (mm)	0.125 (3.175)
Maximum Frequency	GHz	40
Nominal Time Delay	ns/ft (ns/m)	1.45 (4.76)
Capacitance	pF/ft (pF/m)	29.85 (97.93)

Calculation

$$IL = \frac{(K1 \times v(f) + K2 \times f)}{100} \times \text{Cable Length} + \text{Connector Loss}^*$$

Cable Insertion Loss
 f = Frequency (MHz)

Use K values with
 matching length unit

K Values

	dB/100ft	dB/100m
K1	1.195	3.921
K2	0.001309	0.004295

*See Connector Table

CENTER CONDUCTOR

Silver-Plated,
Copper-Clad Steel Wire

DIELECTRIC

Extruded Solid
PTFE

OUTER CONDUCTOR

Silver-Plated,
Copper-Clad Steel
Flat Wire Braid

OUTER SHIELD

Silver-Plated,
Copper-Clad Steel
Round Wire Braid

JACKET

Extruded Blue FEP

Levitate™ 047

Attenuation (max)

Frequency MHz	dB/100ft	dB/100m	Frequency MHz	dB/100ft	dB/100m
1000	39.1	128.3	11000	139.7	458.5
2000	56.1	183.9	12000	146.6	481.1
3000	69.4	227.6	13000	153.3	502.9
4000	80.8	265.2	14000	159.7	524.1
5000	91.0	298.7	15000	166.0	544.6
6000	100.4	329.5	16000	172.1	564.7
7000	109.1	358.1	17000	178.1	584.3
8000	117.4	385.1	18000	183.9	603.4
9000	125.1	410.6	26500	229.2	752.1
10000	132.6	435.1	40000	291.4	956.0

Cable Assembly Ordering Guide

LVT047

Cable Code

-XXX

Connector A

XXX-

Connector B

XX.X

Length

X

Units of measure: I = Inches, F = Feet, M = Meters

Connector Options

Type	Gender	Description	Geometry	Stock Code	Connector Code	Max. Frequency	Connector Loss
SMA	Male	SMA Straight Male	Straight	47396	SM	27	0.03 x vf (GHz)
SMP	Female	SMP Straight Female	Straight	47432	SMPF	40	0.03 x vf (GHz)



Global manufacturing capability:
US, Asia, and India.



Assembled and tested assemblies
provide assured performance.

Rev. 1: 2/2026

Times Microwave Systems
358 Hall Avenue, Wallingford, CT 06492, USA
800.867.2629
www.timesmicrowave.com

Levitate™ is a trademark of Times Microwave Systems. All rights reserved.