

# Levitate™ 086



Levitate™ 086 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 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)	0.108 (2.743)
Weight	lb/ft (kg/m)	0.0117 (0.0174)
Minimum Static Bend Radius	in (mm)	0.25 (6.35)
Maximum Frequency	GHz	40
Nominal Time Delay	ns/ft (ns/m)	1.45 (4.76)
Capacitance	pF/ft (pF/m)	29.47 (96.69)

## Calculation

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

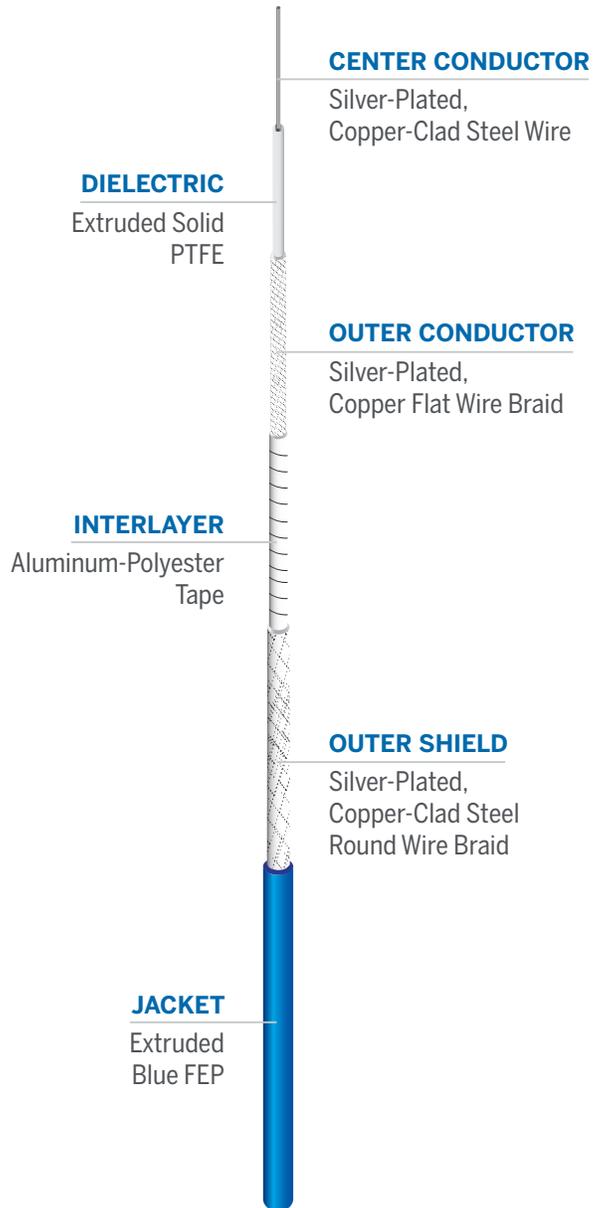
Cable Insertion Loss  
f = Frequency (MHz)

Use K values with  
matching length unit



K Values	dB/100ft	dB/100m
K1	0.644567	2.114721
K2	0.001309	0.004295

\*See Connector Table



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## Attenuation (max)

Frequency MHz	dB/100ft	dB/100m	Frequency MHz	dB/100ft	dB/100m
1000	21.7	71.2	11000	82.0	269.0
2000	31.4	103.2	12000	86.3	283.2
3000	39.2	128.7	13000	90.5	297.0
4000	46.0	150.9	14000	94.6	310.3
5000	52.1	171.0	15000	98.6	323.4
6000	57.8	189.6	16000	102.5	336.2
7000	63.1	207.0	17000	106.3	348.7
8000	68.1	223.5	18000	110.0	361.0
9000	72.9	239.3	26500	139.6	458.1
10000	77.5	254.4	40000	181.3	594.7

## Cable Assembly Ordering Guide

**LVT086**

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	47388	SM	27	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

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