

# Levitate™ 196



Levitate™ 196 is engineered to meet the modern demands of both military and commercial RF systems. Offering an ultra-lightweight construction with minimal signal loss, these assemblies are built to support critical RF runs connecting antennas to LRU's. 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

- Lightest Weight Cable on Market per Unit of Loss
- Silver Plated, Copper-Clad Aluminum Conductor
- Light Weight Aluminum Outer Conductor
- Chemical and Abrasion Resistant ETFE Jacket

## Specifications

Impedance  
50 Ohms

Op Temp  
-85 to +302°F  
-65 to +150°C

Units

Diameter	in (mm)	0.199 (5.06)
Weight	lb/ft (kg/m)	0.0292 (0.0435)
Minimum Static Bend Radius	in (mm)	1 (25)
Maximum Frequency	GHz	8
Nominal Time Delay	ns/ft (ns/m)	1.33 (4.36)
Capacitance	pF/ft (pF/m)	27.43 (89.99)

## Calculation

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

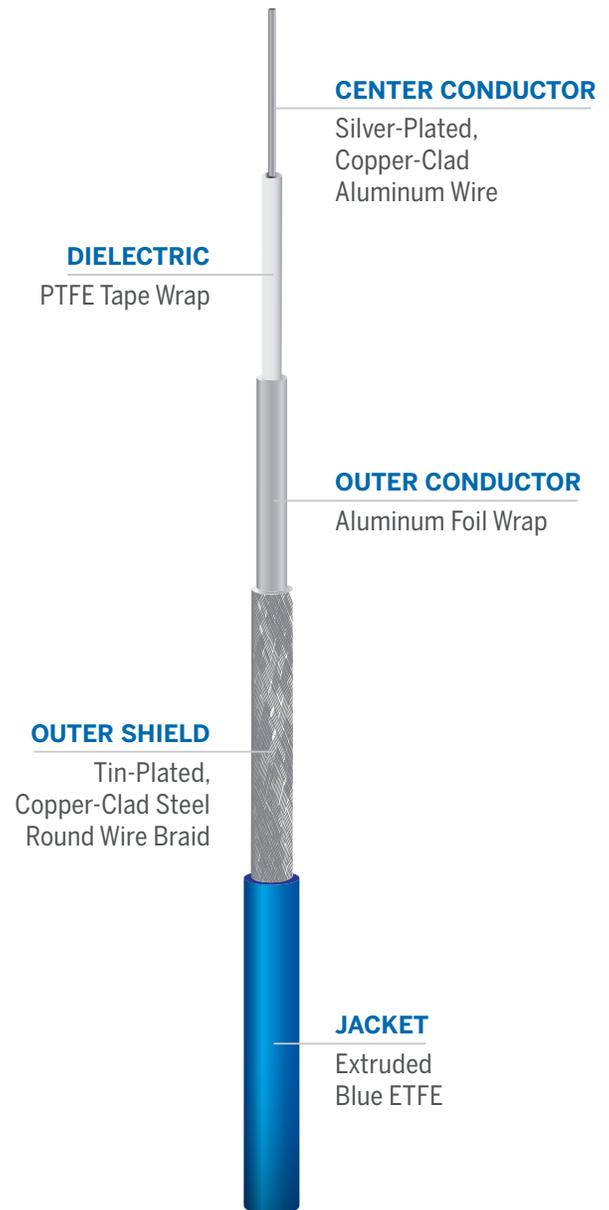
Cable Insertion Loss  
f = Frequency (MHz)

Use K values with  
matching length unit



K Values	dB/100ft	dB/100m
K1	0.2807	0.9209
K2	0.000161	0.000528

\*See Connector Table



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## Attenuation (max)

Frequency MHz	dB/100ft	dB/100m
1000	9.0	29.6
2000	12.9	42.2
3000	15.9	52.0
4000	18.4	60.4
5000	20.7	67.8
6000	22.7	74.5
7000	24.6	80.7
8000	26.4	86.6

## Cable Assembly Ordering Guide

**LVT196**

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
TNC	Male	TNCA Straight Male	Straight	3190-3543	TM	8	0.05 x vf (GHz)
SMA	Male	SMA Right Angle Male	Right Angle	3190-3545	SMR	8	0.08 x vf (GHz)
SMA	Male	SMA Straight Male	Straight	3190-3554	SM	8	0.05 x vf (GHz)



Global manufacturing capability:  
US, Asia, and India.



Assembled and tested assemblies  
provide assured performance.

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