

Levitate™ 157



Levitate™ 157 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

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

Diameter	in (mm)	0.16 (4.06)
Weight	lb/ft (kg/m)	0.02 (0.0298)
Minimum Static Bend Radius	in (mm)	0.75 (19.05)
Maximum Frequency	GHz	8
Nominal Time Delay	ns/ft (ns/m)	1.33 (4.36)
Capacitance	pF/ft (pF/m)	25.94 (85.10)

Calculation

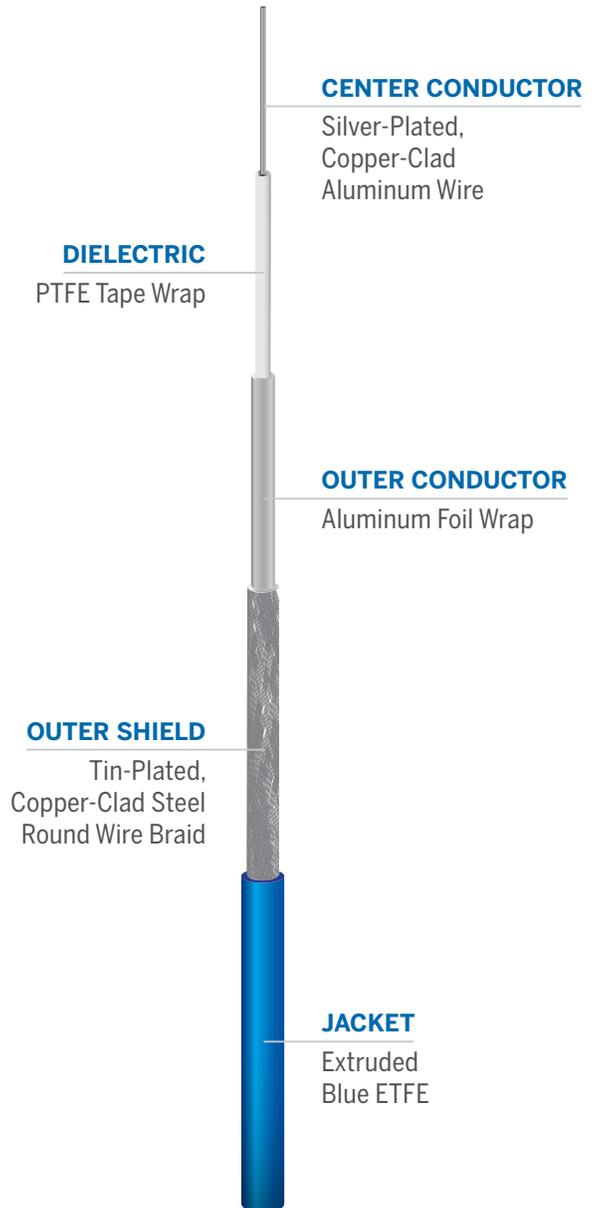
$$IL = \frac{(K1 \times v(f) + K2 \times f)}{100} \times \text{Cable Length} + \text{Connector Loss}^*$$

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

K Values	dB/100ft	dB/100m
K1	0.369485	1.212221
K2	0.000161	0.000528

*See Connector Table



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Attenuation (max)

Frequency MHz	dB/100ft	dB/100m
1000	11.8	38.9
2000	16.8	55.3
3000	20.7	68.0
4000	24.0	78.8
5000	26.9	88.4
6000	29.6	97.1
7000	32.0	105.1
8000	34.3	112.6

Cable Assembly Ordering Guide

LVT157

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	3190-3542	TM	8	0.05 x vf (GHz)
SMA	Male	SMA Right Angle Male	Right Angle	3190-3544	SMR	8	0.08 x vf (GHz)
SMA	Male	SMA Straight Male	Straight	3190-3553	SM	8	0.05 x vf (GHz)



Global manufacturing capability:
US, Asia, and India.



Assembled and tested assemblies
provide assured performance.

Rev. 1: 2/2026

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