

Levitate™ 141



Levitate™ 141 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 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)	0.163 (4.14)
Weight	lb/ft (kg/m)	0.0282 (0.042)
Minimum Static Bend Radius	in (mm)	0.5 (12.77)
Maximum Frequency	GHz	32
Nominal Time Delay	ns/ft (ns/m)	1.45 (4.76)
Capacitance	pF/ft (pF/m)	29.06 (95.34)

Calculation

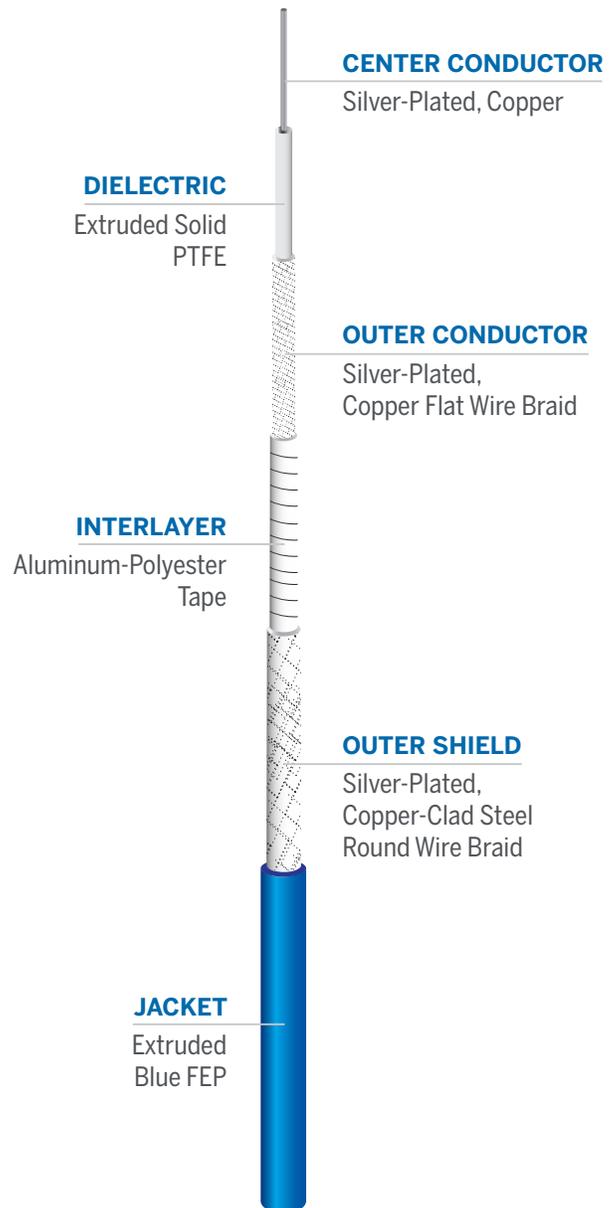
$$IL = \frac{(K1 \times v(f) + K2 \times f)}{100} \times \text{Cable Length} + \text{Connector Loss}^*$$

Cable Insertion Loss
 $f = \text{Frequency (MHz)}$

 Use K values with
 matching length unit

K Values	dB/100ft	dB/100m
K1	0.3626	1.1896
K2	0.001309	0.004295

*See Connector Table



Levitate™ 141

Attenuation (max)

Frequency MHz	dB/100ft	dB/100m	Frequency MHz	dB/100ft	dB/100m
1000	12.8	41.9	11000	52.4	172.0
2000	18.8	61.8	12000	55.4	181.9
3000	23.8	78.0	13000	58.4	191.5
4000	28.2	92.4	14000	61.2	200.9
5000	32.2	105.6	15000	64.0	210.1
6000	35.9	117.9	16000	66.8	219.2
7000	39.5	129.6	17000	69.5	228.1
8000	42.9	140.8	18000	72.2	236.9
9000	46.2	151.5	26500	93.7	307.5
10000	49.4	161.9	40000	-	-

Cable Assembly Ordering Guide

LVT141

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	Straight SMA Male	Straight	47404	SM	27	0.03 x v _f (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.