

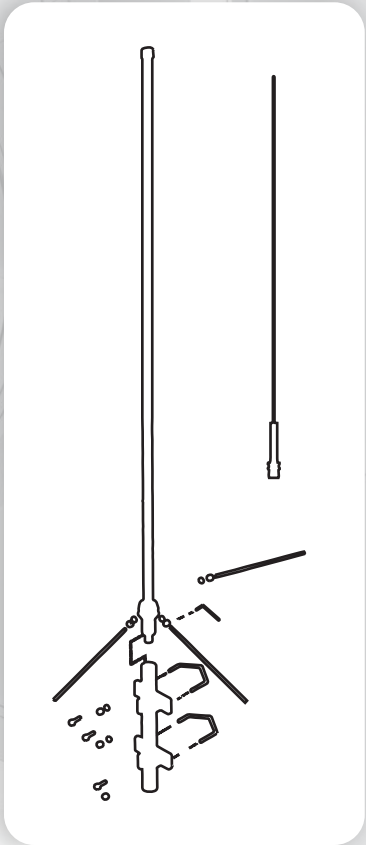
LT-ANTL134-184-4.5

VHF CUT-TUNED BASE STATION ANTENNA

The LT-ANTL134-184-4.5 is a VHF cut-tuned base station antenna designed for the 134–184 MHz band. Built with a 5/8λ design and delivering 4.5 dBd gain, it ensures efficient wide-area coverage with 200 W power handling. Lightweight at only 1.0 kg, with a 1.75 m fiberglass structure and ground radials, this antenna is ideal for installations requiring easy handling, flexibility, and reliable outdoor performance.

Key Features

- Frequency range: 134–184 MHz (cut-tuned adjustment)
- Gain: 4.5 dBd
- 200 W input power capacity
- Low VSWR (≤ 1.5)
- Lightweight 1.75 m fiberglass radome
- SO-239 connector with PL-259 cable compatibility
- Supplied with ground radials and mounting kit
- Wind resistance: up to 130 mph (55 m/s)
- Easy installation and tuning via radiator element cut chart



Feature	LT-ANTL134-184-4.5
Frequency Range	134–184 MHz (cut-tuned)
Gain	4.5 dBd
VSWR	≤ 1.5
Impedance	50 Ω
Polarization	Vertical
Max. Power	200 W
Connector	SO-239
Radiation Pattern	Omnidirectional (5/8λ design)
Length	1.75 m
Weight	~1.0 kg
Wind Rating	130 mph (55 m/s)
Mounting	Support pipe, U-Bolts, and ground radials (supplied)

Applications

VHF base station communications
Public safety and emergency services
Industrial and transportation networks
Amateur radio and utility networks
Lightweight and cost-effective deployment

Ordering Information

The LT-ANTL134-184-4.5 is part of the VHF Cut-Tuned Antenna Series (200 W, radial-mount design). Other available models in this series include:

LT-ANTL144-174-6.7 (144–174 MHz)
LT-ANTL406-512-6.5 (406–512 MHz)

Custom options are available upon request, including frequency tuning, connector types, and mounting accessories.



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Cutting Chart

Frequency (MHz)	Length (inch)	Length (cm)
134	64-1/8	163
136	63	160
141	60-1/4	153
146	57-7/8	147
151	55-1/2	141
156	53-3/4	136.5
160	51-15/16	132
165	50	127
170	48-7/16	123
174	47-1/4	120
179	45-5/8	116
180	44-1/2	113

Package Content

No.	Description	Qty.
1	Outer tube	1
2	Radials with nut, spring washer	3
3	Mast	1
4	Locking screw	3
5	Locking washer	4
6	Nut	6
7	Support pipe	1
8	U-Bolt	2
9	Bracket	2
10	Wrench	1

Re-assembly

Put the locking nut and washer onto the ground plane radials. Screw the three radials (part #2) into the threaded holes on the metal antenna base (part #3) and tighten by hand. Secure the radials by tightening the locking nuts with a wrench.

Secure the support pipe (part #7) to the mounting pole (not included) in the desired location using the supplied brackets (part #9), U-bolts (part #8), locking screws (part #4), locking washers (part #5), and locking nuts (part #6). Tighten securely with a wrench or screwdriver.

Run the cable from the radio through the support pipe (part #7). Attach the PL-259 connector on the cable end tightly to the SO-239 connector at the bottom of the antenna. Insert the antenna into the support pipe, aligning the threaded hole with the locking screw hole. Insert the locking screw (part #4) and tighten securely with a wrench or screwdriver.

Adjustments

The LT-ANTL134-184-4.5 operates across the 134–184 MHz band through radiator element cut-tuning.

1- Unfasten the locking screw on the metal antenna base (part #3).

2- Pull the SO-239 connector out and slide the radiator element off the outer tube carefully.

3- Cut the radiator element to the proper length according to the cutting chart.

4- Slide the radiator back into the outer tube and push the SO-239 into position.

5- Fasten the locking screw with a wrench (part #10).

