

# V pol Groundplane Antenna 27 ... 61 MHz

## Vertical Polarization

The Schomandl K512472 is a tunable Groundplane antenna for a wide frequency range.

- Entire antenna at DC ground potential to prevent electrostatic noise and to improve lightning protection
- Wide frequency range achievable by cutting radials to desired length
- Variable mounting configurations allow feeder cable to be run inside or outside the support pipe.
- Stainless steel ground radials, hardware, and fastenings.

Type No.	Antenna	<b>K 51 24 72</b>
	Spare radials	K5124701
Frequency range		27 ... 61 MHz
Polarization		Vertical
Gain (ref. 1/2 dipole)		0 dB
Impedance		50 Ω
Max. power per input		500 W (at 50 °C ambient temperature)
HCM-Code(s)		HCM001LA90, 037DE00
Order No.		8000008

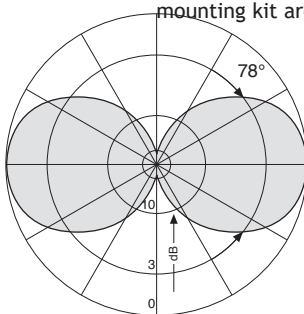
**Material:** Radiator and radials: Fiberglass with imbedded stranded copper wire.  
Base: Aluminum.  
Mounting U-bolt, all screws and nuts: Stainless steel.

**Mounting:** The antenna can be attached in two ways with the supplied mounting kit:  
1. On the tip of a tubular mast of 40-54 mm [1.6-2.1 inches] diameter (connecting cable runs inside the mast).  
2. Laterally at the tip of a tubular mast of 20-54 mm [0.8-2.1 inches] diameter (connecting cable runs outside the mast).

**Radials:** Tightening torque 25 Nm

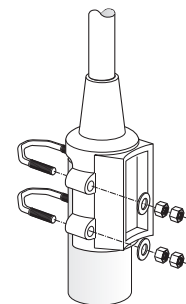
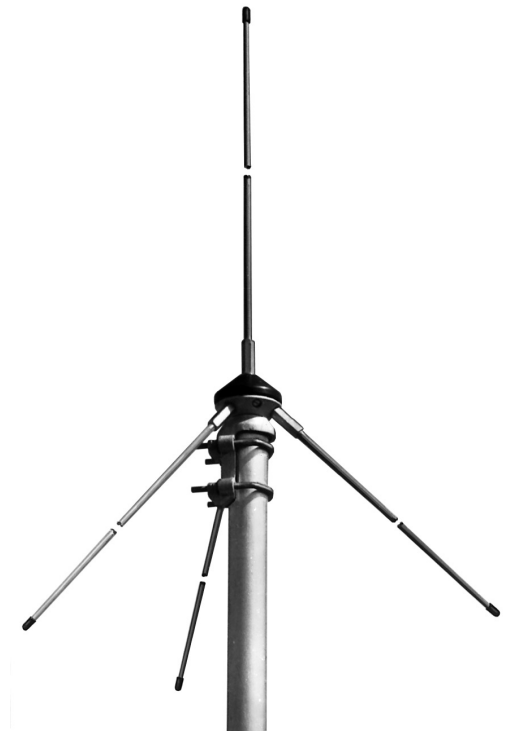
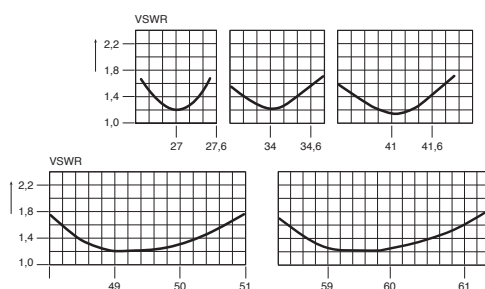
**Tuning:** By cutting radiator and radials to length in accordance to the mounting instructions.

**Grounding:** All metal parts of the antenna including the mounting kit are DC grounded.

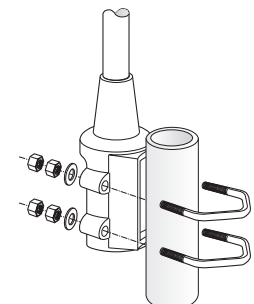


Vertical Pattern

Standing Wave Ratio (VSWR)  
Examples of matching at various frequencies



On the tip of a tubular mast



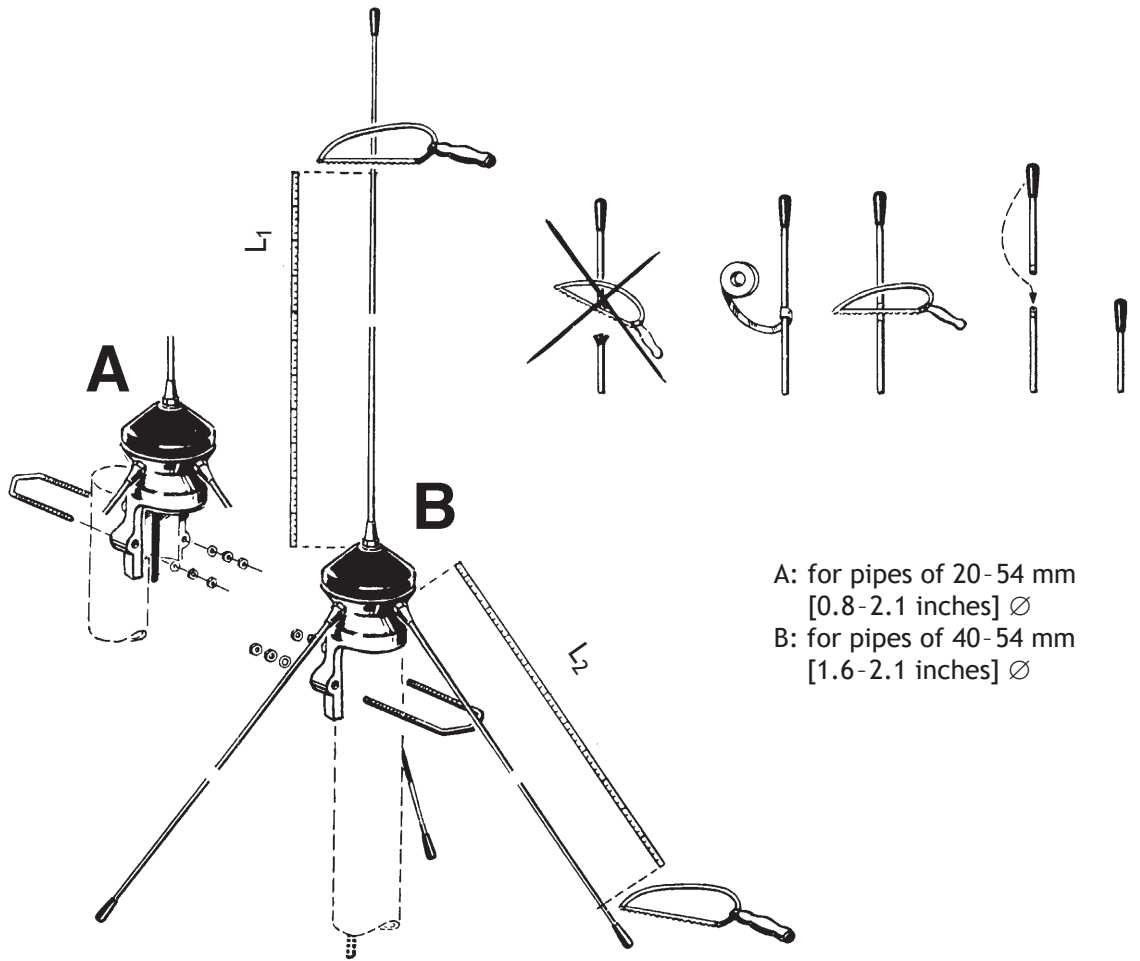
Laterally at the tip of a tubular mast

### Mechanical specifications

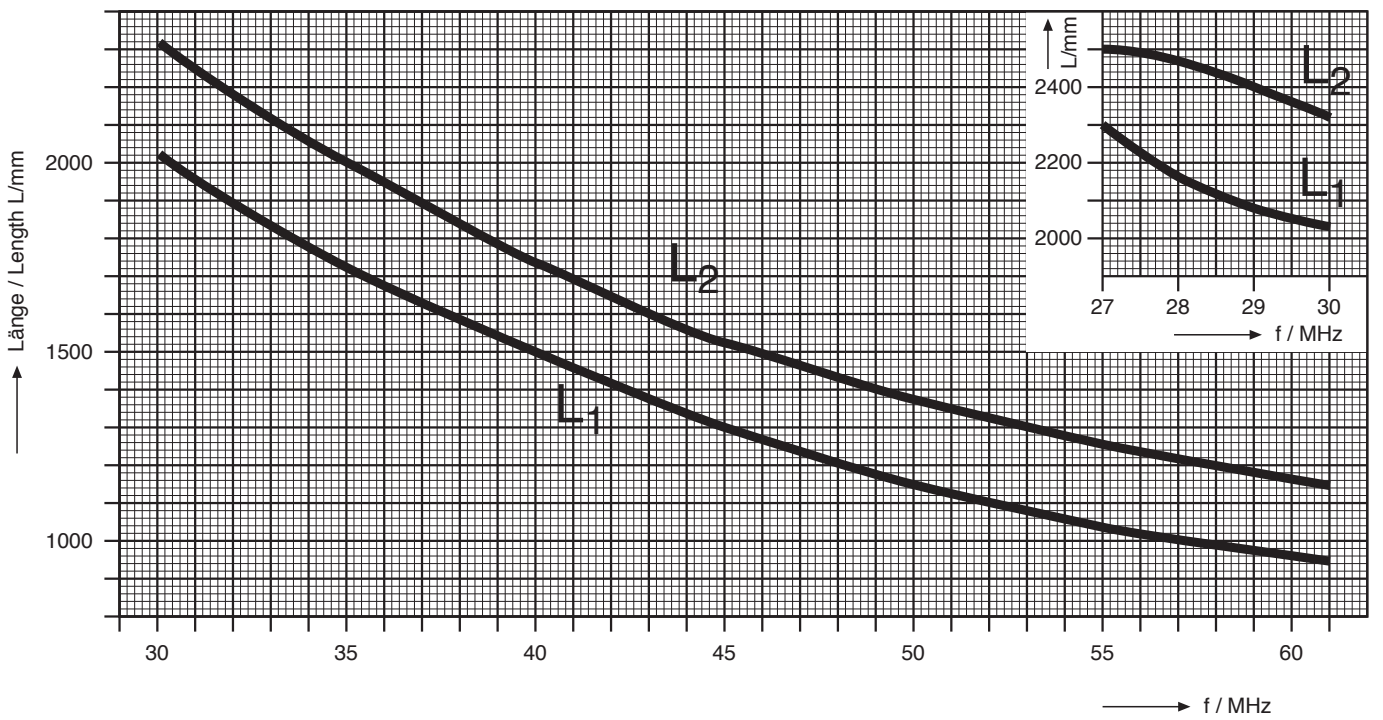
Input	UHF female
Wind load (N) (at 150 km/h) [lbf]	100 [25]
Max. wind velocity (km/h) [mph]	135 [84]
Radiator length [mm] [inches]	max. 2510 [98.8]
Length of radials [mm] [inches]	max. 2510 [98.8]
Weight * (kg) [lb]	1.6 [3.5]
Packing size [mm] [inches]	2704 x 136 x 100 [106.5 x 5.4 x 3.9]

\* for max. antenna length

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A: for pipes of 20-54 mm  
[0.8-2.1 inches]  $\varnothing$   
B: for pipes of 40-54 mm  
[1.6-2.1 inches]  $\varnothing$



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