

V pol Omnidirectional Colinear Antenna

Vertical Polarization 146 ... 174 MHz



The Schomandl K 55 16 21 1/2/3 are omnidirectional gain antennas for many professional fixed-station applications. With their aluminum alloy base, the products can be easily mounted in nearly any situation.

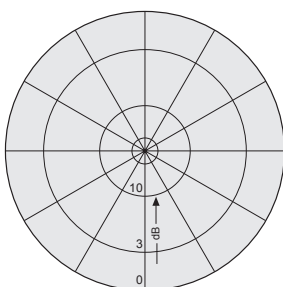
- Colinear Antennas with stacked design for flat vertical pattern
- Rugged grey fiberglass radome for enduring performance
- For superior VSWR performance, the products are available in three different frequency ranges covering the full VHF band

Type No.	K 55 16 21 1	K 55 16 22 1	K 55 16 23 1
Frequency range	146 - 155 MHz	155 - 164 MHz	164 - 174 MHz
Input	N female		
VSWR	< 1.5		
Gain (ref. $\lambda/2$ dipole)	4 dB		
Impedance	50 Ω		
Polarization	Vertical		
Max. power	500 W (at 50 °C ambient temperature)		
Weight	7 kg	6,5 kg	6,5 kg
Wind load	220 N	210 N	200 N
	(at 150 km/h)		
Max. wind velocity	150 km/h		
Packing size (l)	4850 mm	4600 mm	4350 mm
Packing size (w x d)	160 x 160 mm		
Antenna height	4780 mm	4530 mm	4275 mm
Diameter	max. 52 mm		
HCM-Code(s)	HCM001LA90, 090VE31		
Order no.	80000857	80000858	80000859

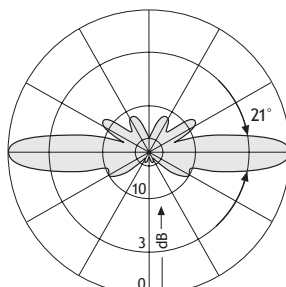
Material:
 Radiator: Brass.
 Radome: Fiberglass, colour: Grey.
 Base: Aluminum.
 Mounting U-bolt and all screws and nuts: Stainless steel.

Mounting:
 The antenna can be attached in two ways with the supplied mounting kit:
 1. On the tip of a tubular mast of 65 - 105 mm diameter (connecting cable runs inside the mast).
 2. Laterally at the tip of a tubular mast of 30 - 90 mm diameter (connecting cable runs outside the mast).

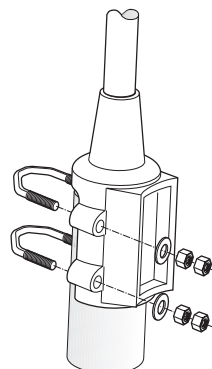
Grounding:
 All metal parts of the antenna including the mounting kit are DC grounded.



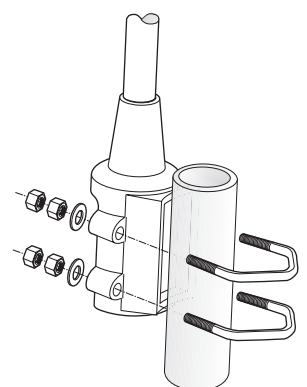
Horizontal Pattern



Vertical Pattern



On the tip of a tubular mast



Laterally at the tip of a tubular mast