

136-176 MHz

ANTENNA AD1604

HORWIN AD 1604 is a four-dipole element array wide band VHF antenna for professional radio systems.

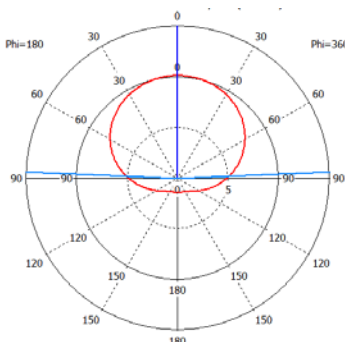
Dipole incorporates "balun" matching circuit optimized for wide bandwidth and accurate matching. More gain is achieved by coupling single folded dipoles into arrays. Dipoles in array are coupled by precision phasing cable harness keeping low SWR and minimum insertion losses. The horizontal radiation pattern is adjusted by changing the distance between dipole elements and supporting mast. All antenna parts are made of aluminium and covered with polymer powdered coating which resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. All components of dipole elements are DCgrounded for better lightning and antistatic protection.



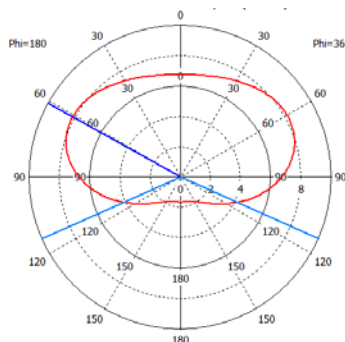
AD1604

Frequency range, MHz	136 – 176	
Bandwidth @ SWR < 1,5, MHz	40	
Elements	4	
Gain, dBd (1/4 λ dipole to mast spacing)	6	
Gain, dBd (3/8 λ dipole to mast spacing)	9	
Power rating, W	200	
Overall dimensions, mm	H	4800
5/8λ spacing	D	1100
Weight (aprox.), kg	11,5	
Impedance, Ohm	50	
Termination	N- female	
Vertical beamwidth (3/8 spacing)	19°	
Max. exposed area, m ²	0,29	
Lateral thrust at 45 m/s, H	335	
Lightning protection	CD Ground	
Rated wind velocity, m/s	45	
Rated wind velocity with 0.5" icing, m/s	28	

E-plane ¼ λ dipole to mast spacing



E-plane 3/8 λ dipole to mast spacing



H-plane (Horwin AD 1604)

