

# ANT50D

## DIPOLE ANTENNA

The Telewave ANT50D is a rugged, high-performance single dipole antenna designed for VHF lowband services, including public safety, utilities, military communication, and amateur radio. This antenna provides 9 MHz bandwidth with no tuning required. The horizontal pattern is adjustable, and multiple elements can be stacked for increased gain and pattern control.

Each antenna is constructed with 6061-T6 aluminum, and is welded at the base to a solid, machined aluminum mounting block for maximum strength. A massive 3.5" diameter boom provides exceptional strength.

**NOTE: THIS ANTENNA IS SHIPPED VIA TRUCK FREIGHT ONLY**

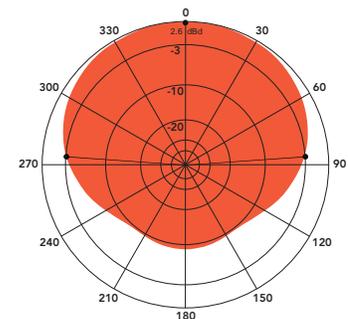
Each antenna is also completely sealed with our high-tech Txylan™ coating, which resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives.

ANT50D antennas include ANTC482 mounting hardware which will accommodate a 1.5"-3.5" diameter galvanized steel support pipe or tower leg. Due to the size and potential wind loading of this antenna, tower side mounting is recommended.



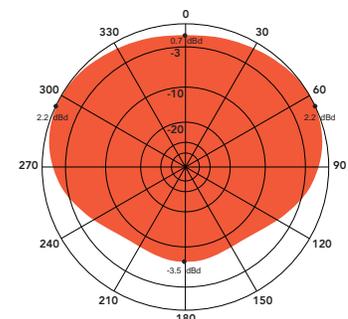
### SPECIFICATIONS

Frequency (continuous)	45-54 MHz
Power rating (typ.)	500 watts
Impedance	50 ohms
VSWR	1.5:1 or less
Pattern	Adjustable: offset circular or cardioid
Lightning protection	DC Ground
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable
Gain (dependent on pattern)	1-2.5 dBd
Vertical beamwidth	78°
Horizontal beamwidth	Dependent on pattern
Dipole dimensions (H x W)	108 x 9 in.
Boom dimensions (L x Dia.)	96 x 3.5 in.
Weight (antenna + clamps)	53 lb.
Wind rating / 0.5" ice	125 / 100 MPH
Maximum exposed area	3.2 ft. <sup>2</sup>
Lateral thrust at 100 MPH	129 lb



H-Plane gain 2.6 dBd  
1/4 wl. spacing from tower

ANT50D at 49 MHz



H-Plane gain 0.7 dBd  
3/8 wl. spacing from tower