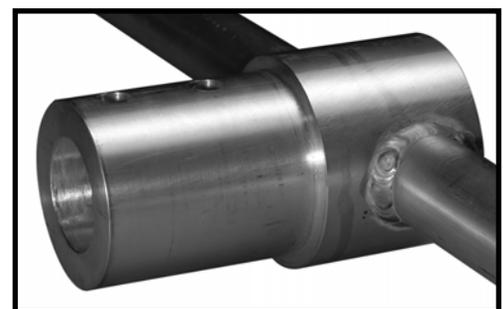


ANT40D - DIPOLE ANTENNA

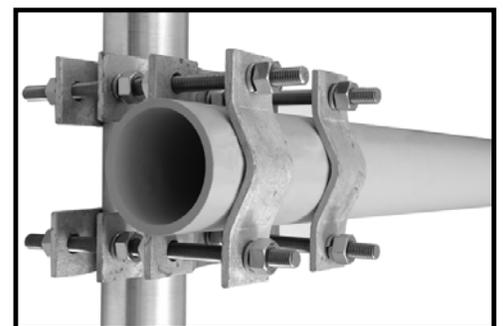
Telewave ANT40D Dipole antennas are built to withstand harsh conditions in the most demanding applications. Telewave dipoles are in service on mountaintops in Alaska, oil rigs in the Gulf of Mexico, Phillipine jungles, and the deserts of North Africa. Constructed from **fully welded 6061-T6 aluminum**, Telewave ANT40D Dipoles feature broad **7 MHz bandwidth**, 500 watt power handling, and superior lightning impulse protection thanks to **direct DC ground** of all metal components. **No tuning** is required for full band coverage. The load-bearing components of this antenna are **custom machined** from a solid aluminum block, and the support boom and radome which covers the electrical junction are oversized to ensure survival even in **hurricane force winds**. ANTC482 heavy duty mounting hardware is included for installation on an existing mast or support structure.

Telewave ANT40D antennas also feature a proprietary coating called **Txylan™**, which **completely encapsulates** all metal antenna components, providing strong protection from water, corrosive chemicals, salt spray, and **windblown abrasives**. This poly-polar coating beads water, and is chemically bonded to the metal surface of the antenna, reducing and often preventing ice adhesion, and does not chip or flake. The coating is available in black or desert sand color.

The feed cable is Belden 8267 MIL-C-17 (RG-213/U), and the connection to the driven portion of the antenna is routed through the boom and **internally sealed** within the element by an RF transparent fiberglass radome, greatly reducing failure due to corrosion or ice expansion. The standard connector type is N-Male, and 7-16 DIN can also be supplied as an option for higher power applications. Each antenna can be **configured during installation** for 1-3 dB gain and horizontal pattern.



ELEMENT SUPPORT BLOCK



ANTC482 CLAMP SET

TELEWAVE, INC.

660 Giguere Ct, San Jose CA 95133
 1-800-331-3396 • 408-929-4400
 www.telewave.com

All specifications subject to change without notice

TWDS-7097 Rev. 6/06

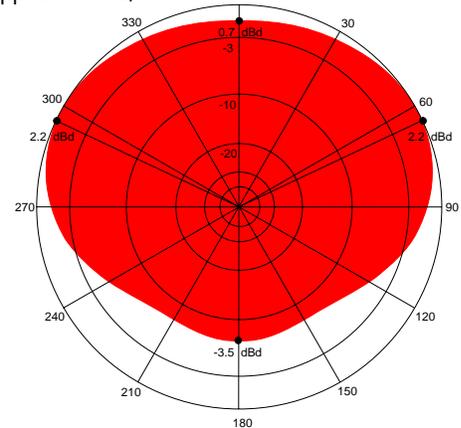
ANT40D - DIPOLE ANTENNA

MOUNTING

ANT40D mounting hardware is designed for attachment to a 1.5"-3.5" diameter galvanized steel support pipe or tower leg.

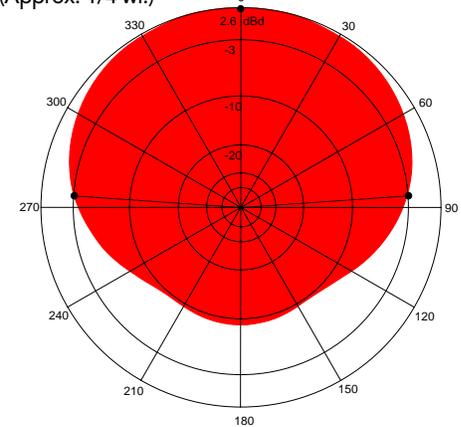
SPECIFICATIONS	
Power	500 Watts
Frequency Range	37.5-44.5 MHz
Impedance	50 Ohms
VSWR	1.5:1 or less
Pattern	Adjustable for offset circular or cardioid
Lightning Protection	DC Ground
Termination	Type N Male pigtail 7-16 DIN-M optional
Gain (dependent on pattern)	1-3 dBd
Vertical beamwidth	78 degrees
Horizontal beamwidth	Varies depending on pattern
Dipole dimensions (H x W x diam.)	129" x 7" x 1.125"
Boom dimensions (L x diam.)	96" x 3.5"
Antenna weight	46 lbs
Max. Wind Velocity (with 0.5" radial ice)	125 MPH 100 MPH
Max. Exposed Area	4.39 ft. ²
Lateral Thrust (100 MPH)	176 lb

ANT40D - 41 MHz - H-Plane
108" dipole to mast spacing
(Approx. 3/8 wl.)



ANT40D - 41 MHz - H-Plane
72" dipole to mast spacing
(Approx. 1/4 wl.)

Note: At 54" spacing, gain is approx 3.2 dBd.



TYPICAL VSWR RESPONSE

