

ANT280S

WIDEBAND DISCONE ANTENNA

The Telewave ANT280S Discone is a rugged, lightweight, wideband antenna for all frequencies between 118 MHz and 3 GHz. This versatile antenna provides a highly flexible solution to interoperability requirements in multiple bands.

Each antenna is constructed from Mil. Spec. 6061-T6 solid aluminum, welded at all joints for maximum strength. A high-strength radome encloses the upper cone and RF connections to ensure survivability in adverse environments.

The radome and Txytan™ coating on all metal surfaces ensures complete protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and sand storms in desert environments.

The antenna has a 1.5" diameter mast, and includes an ANTC480 dual clamp kit for mounting to a 1.5"-3.5" O.D. support pipe.

The ANT280S is light enough to be used as a tactical antenna for field deployment, and can complement or replace multiple antennas on a mobile command vehicle. The 500 watt power rating allows use of high-power radios and tactical repeaters.

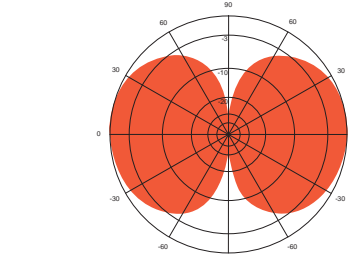
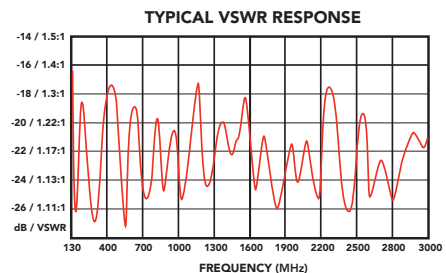
The full-surface coating and rugged construction means it can also be permanently mounted on a tower or command center roof for long-term fixed operation.

The ANT280S is ready to operate with a single or multiband radio using one antenna output. Several types of low-loss couplers are available for multi-radio operation.

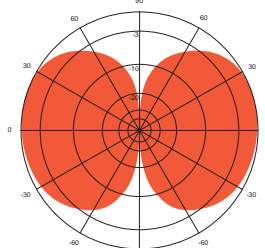
For optimum performance in the lowest frequency ranges, the antenna should be mounted at least 20 feet above the closest reflecting surface.



| SPECIFICATIONS | |
|---------------------------|--|
| Frequency (continuous) | 118 MHz - 3 GHz |
| Power rating (typ.) | 500 watts |
| Gain (typ.) | 0 dBd |
| Impedance | 50 ohms |
| VSWR | 1.5:1 or less (118 - 136 MHz at 1.8:1 VSWR) |
| Pattern | Omnidirectional |
| Termination | N-Male or 7-16 DIN (option) on feed cable |
| Vertical beamwidth (nom.) | 110° |
| Wind rating / 0.5" ice | 150 / 100 MPH |
| Maximum exposed area | 0.89 ft. ² |
| Lateral thrust at 100 MPH | 36 lb |
| Bending moment at 100 MPH | 49 ft. lb (top clamp, flat plate equiv.) |
| Dimensions | 43" H x 28.5" W (at base) |
| Weight | 11 lb |



E-plane: 136 MHz



E-plane: 400 MHz