

Tactical Radio Products

RF-1980F-AT001 /
RF-1980-AT001

TILT-WHIP ADAPTERS

for use with a vehicular

whip to allow for NVIS

communication

The RF-1980 family provides whip antennas the flexibility to tilt from 0° (vertical) to 50°, 70°, and 90°. The use of a tilt-whip adapter provides radiation patterns that accommodate near vertical incidence skywave (NVIS) propagation.

The RF-1980F is a tilt-whip adapter with a spring base that bolts to standard 4.5-inch bolt hole pattern. The length of whip antenna is limited to 16 feet.

The RF-1980 is a tilt-whip adapter that mounts directly on a standard whip base. If a locking base is used, a 32-foot whip can be installed with this tilt-whip adapter.





Electrical

■ Frequency Range 2 to 30 MHz

■ RF Power Capacity 1 kW

■ Input Impedance 50 ohm, nominal

■ Radiation Pattern

Azimuth - omnidirectional Elevation - see below

■ Polarization

Turns vertically polarized whip into horizontal polarized tilt whip

■ Gain

with 32 foot whip: 0 dBi @ 8 MHz With 16 foot whip: -2 dBi @ 8 MHz

Environmental

■ Designed to meet MIL-STD-810

Mechanical

■ Deployed Dimensions

RF-1980F 20.5 inch RF-1980 19 inch

■ Color

RF1980F-AT001: CARC green RF-1980F-AT002: CARC tan RF-1980: Flat black

■ Weight

10 lb (4.5 kg)

■ Mounting Interface

RF-1980F: 4-3/8 inch hole equally spaced on 4.5-inch diameter

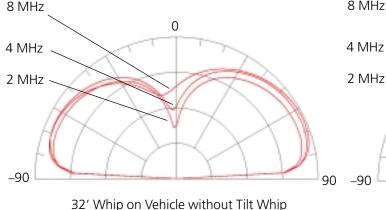
RF-1980: threads on standard whip base

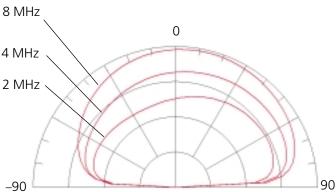
■ Installation Time

RF-1980F: 10 minutes, 1 person RF-1980: 2 minutes, 1 person

Options

- SB-V16/32: 16- or 32-foot whip (The RF-1980 family are adapters. They require a whip for operation.)
- RF-292 Universal Antenna Mount for vehicles





32' Whip on Vehicle with Tilt Whip (antenna tilted over ground)

Specifications are subject to change without notice.

