

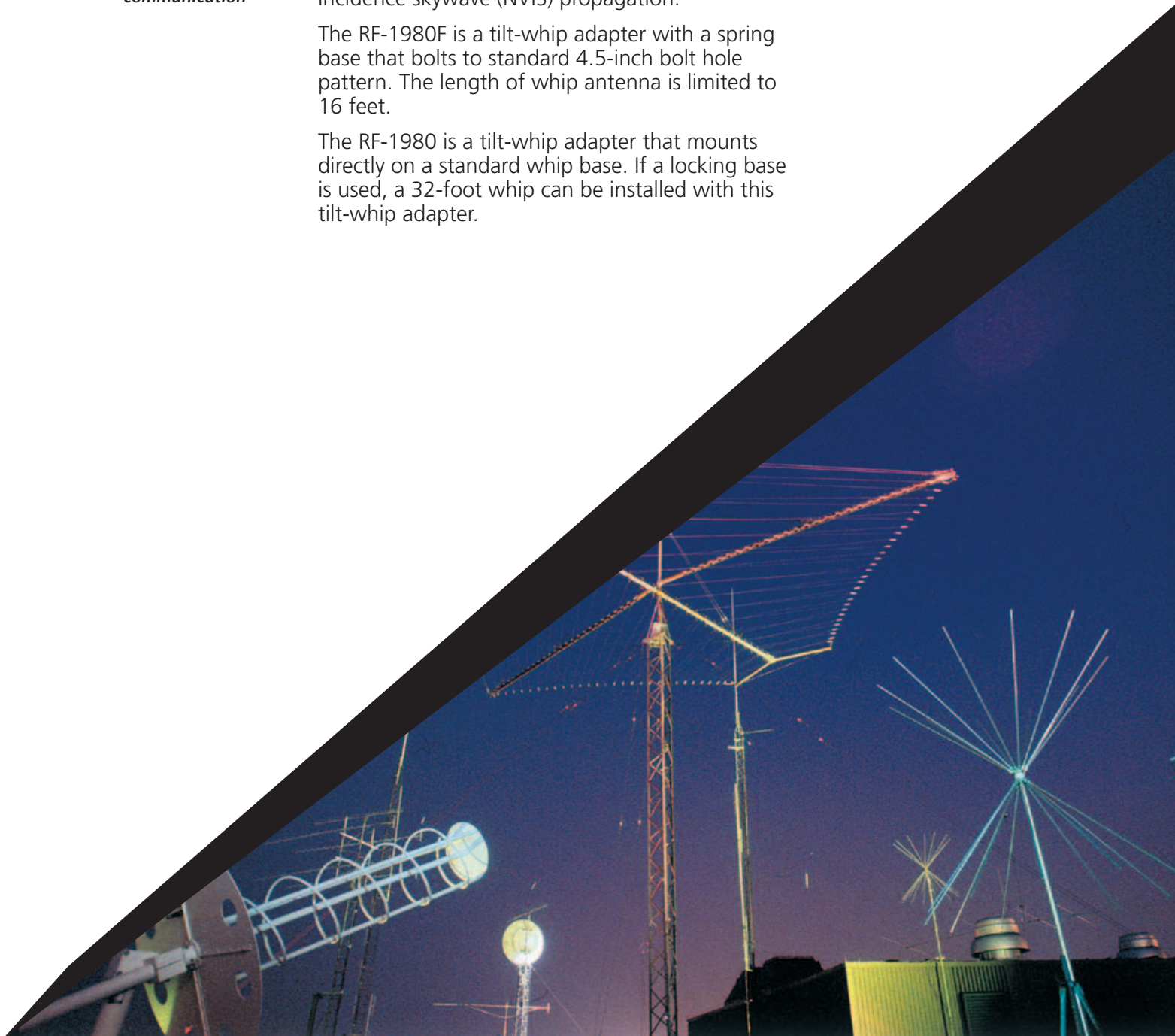
***RF-1980F-AT001 /
RF-1980-AT001
TILT-WHIP ADAPTERS***

*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.



Specifications for the RF-1980

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

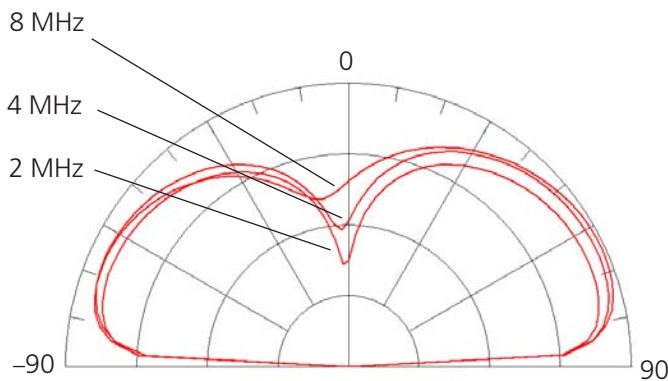
- **Designed to meet MIL-STD-810**

Mechanical

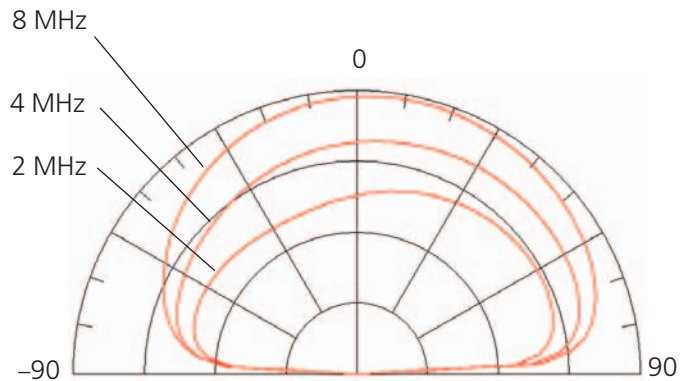
- **Deployed Dimensions**
RF-1980F 20.5 inch
RF-1980 19 inch
- **Color**
RF1980F-AT001: CARC green
RF-1980F-AT002: CARC tan
RF-1980: Flat black
- **Weight**
10 lb (4.5 kg)
- **Mounting Interface**
RF-1980F: 4-3/8 inch hole equally spaced
on 4.5-inch diameter
RF-1980: threads on standard whip base
- **Installation 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 without Tilt Whip



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

Specifications are subject to change without notice.



assuredcommunications™

RF Communications Division | 1680 University Avenue | Rochester, NY USA 14610
www.harris.com 1-585-244-5830

© Copyright 2005 Harris Corporation 8/05 DS-270A