

PORTABLE CROSSED DIPOLE ANTENNA

RF-1936 (AS-2259/GR)/ RF-1938

FEATURES

- > For NVIS (near vertical incidence skywave) communications
- > Rapid-deployable for NVIS communications
- > Lightweight and man-portable
- > 5-minute installation with two people

The RF-1936/38 Series of antennas are man-portable and rapid-deployable for NVIS communications.

The NVIS communication mode is for paths from 10 to 400 km. This communication mode is particularly useful in mountainous, heavily wooded terrain, or dry sandy soil where groundwave is limited. The RF-1936 is used for general purpose NVIS communication links out to 400 km; while the RF-1938 is designed for the hard to close 10 to 200 km links.

These lightweight antenna systems are easily carried and installed by two people in five minutes (RF-1936) or 15 minutes (RF-1938). The sectional mast is a low loss coaxial feed line to feed unequal length crossed dipole radiating elements. The radiating elements are attached to guy ropes that provide mast support. The entire antenna stows within a small canvas bag. The RF-1938 has a second set of coaxial masts and guy lines which stow within a second canvas bag.

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SPECIFICATIONS FOR: RF-1936/RF-1938

SPECIFICATIONS

Dimensions	Stowed:
	RF-1936: 1 bag 26" long x 7" dia. RF-1938: 2 bags 26" long x 7" dia. Deployed: RF-1936 – 61 by 61 ft.
Weight	RF-1936: 15 lb. RF-1938: 27 lb.
Height	RF-1936: 15 ft. (4.6 m) RF-1938: 27.9 ft. (8.6 m)
Finish	RF-1936P-10 CARC 383 Green RF-1936P-30 Semi Gloss Green RF-1936V-10 CARC 383 Green RF-1936V-30 Semi Gloss Green RF-1938AT-10 CARC 383 Green RF-1938AT-30 Semi Gloss Green

ENVIRONMENTAL

Temperature	Operating -40° to +55° C (-40° to +131° F) Storage: -60° to +70° C (-76° to +158° F)
Wind	RF-1936: 60 mph (96 kph) with no ice

MECHANICAL

RF Connector	Side feed with wing nut
Installation Time	RF-1936: 5 min. with 2 people RF-1938: 15 min. with 2 people

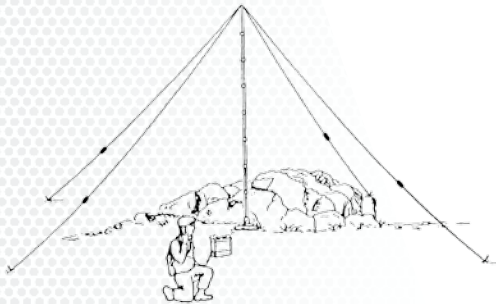
ELECTRICAL

Frequency Range	2 to 30 MHz with antenna coupler
RF Power Capacity	400 Watts
Input Impedance	Compatible with RF-5800H internal coupler and RF-382 Antenna Couplers
Radiation Pattern	Azimuth: omnidirectional Elevation: see radiation patterns below
Polarization	Horizontal for the RF-1936 or a RF-1938 Vertical if used with the monopole conversion kit option
VSWR	In accordance with RF-5800H internal coupler and RF-382 Antenna Couplers
Gain	See radiation patterns below

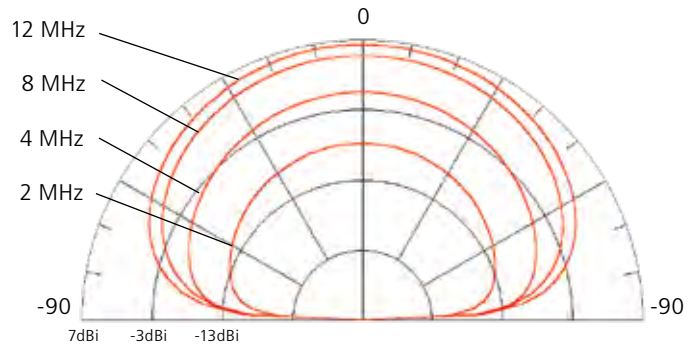
OPTIONS

Monopole Conversion Kit	RF-1938-AT003 (convert RF-1936/38 to top loaded monopole)
Vehicular Antenna Adapter	RF-1936-01 (included with the RF-1936V)
Mounting Plate for flat surface	RF-1936-02 (included with the RF-1936P and RF-1938AT)

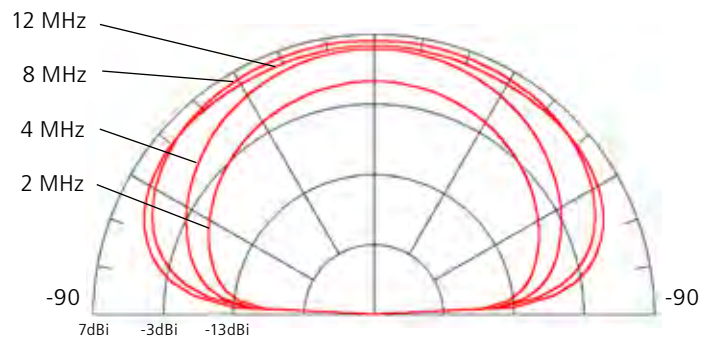
TYPICAL INSTALLATION OF AN RF-1936



RADIATION PATTERNS OVER AVERAGE GROUND



2, 4, 8, 12 MHz Patterns for the RF-1936 Antenna



2, 4, 8, 12 MHz Patterns for the RF-1938 Antenna



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