

## Strategic / Tactical Radio Products

**RF-1941**/ **RF-1940 SERIES** *HF MANPACK, PORTABLE DIPOLE ANTENNA* 



The RF-1941/RF-1940 Series are lightweight, portable dipole antennas designed for use in the 2 to 30 MHz range with a maximum power of 500 Watts. The antenna is stored on selfcontained flat spools, which form an integral part of the antenna. During operation, unwind to frequency marker and deploy; the unused portion remains on the storage spool. Each spool also contains throwing line that can be connected to masts, trees, buildings, poles, etc.

The RF-1941/RF-1940 Antenna series can be connected directly to the AN/PRC-138, AN/PRC-150, or RF-5800H manpack, using the manpack's built-in antenna coupler for ALE operation. The antenna design can be configured as a dipole, sloping dipole, sloping V, or as a vertical rhombic antenna depending on support and terminations (none are supplied). It includes a 10-meter, 50 $\Omega$  coaxial cable with BNC male connectors. A BNC-to-Type N adapter is also included. The RF-1941 is completely contained in a heavy duty 6" x 12" x 3" OD bag with strap and clip points to attach to a military ruckpack. The RF-1941 is more rugged than the low cost RF-1940.

# Specifications for the RF-1941

# Electrical

- Frequency Range
  2.0 to 30 MHz (RF-1941)
  3.0 to 30 MHz (RF-1940)
- RF Power Capacity
  500 Watts (2.0 MHz to 30 MHz)
- Input Impedance
  50 ohms (nominal)
- Radiation Pattern See below
- Polarization
  Horizontal (Dipole Configuration)
- VSWR <1.5:1
- Gain

-6 to 6 dBi depending on mounting configuration and frequency

# Environmental

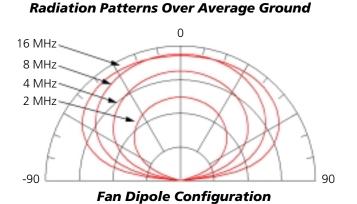
- Temperature Operating; -25° to +55°C Storage; (-40° to 70°C)
- Relative Humidity 0 to 100%

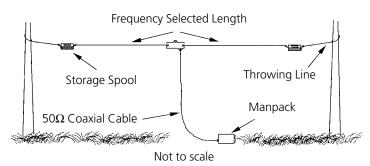
#### Mechanical

- RF Connector BNC, male (BNC-to-Type N Adapter included)
- RF Coaxial Cable RG-58 (10 meters)
- Deployed Dimensions 74.6 m, fully extended (RF-1941) 46.4 m, fully extended (RF-1940) 34 cm x 17 cm x 7 cm, stored
- Weight Approximately 2.3 kg (5.0 lbs)
- Color Olive Drab Green

#### Features

- Reconfigurable
  - Dipole
  - Sloping dipole\*
  - Sloping V\*
  - Vertical Rhombic\*
- Compact storage on custom bag (RF-1941)
- Light weight/Small package
- Low-cost (RF-1940)
- Compatible with ALE when radio has tuner
- \* Termination resistors not included





Specifications are subject to change without notice.



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