



L3HARRIS™
FAST. FORWARD.

RF-1944-AT020

20 Watt Manpack Broadband Inverted VEE HF Antenna

| MECHANICAL | |
|------------------|---------------------------|
| RF Connector | BNC, male |
| RF Coaxial Cable | RG-174 (10 meters) |
| Set Up Time | 10 minutes for one person |

| ENVIRONMENTAL | |
|-------------------|---|
| Temperature | Operating -40°F to +131°F (-40°C to +55°C) Storage: -58°F to +159.8°F (-50°C to +71°C) |
| Relative Humidity | 0 to 100% |

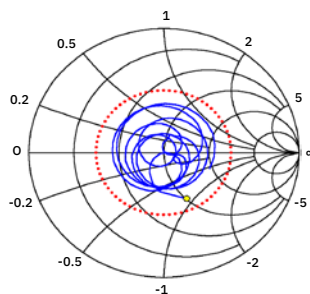
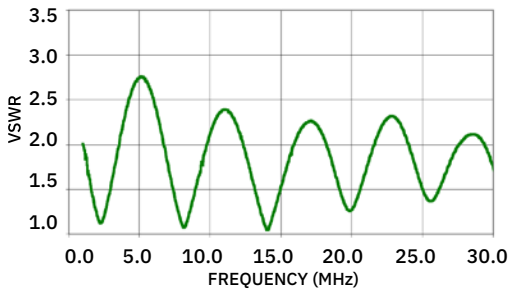
| ELECTRICAL | |
|-------------------|-----------------------------------|
| Frequency Range | 1.6 to 30 MHz |
| RF Power Capacity | 20 Watts PEP and average |
| Input Impedance | 50 ohms (nominal) |
| Radiation Pattern | See plot on back page |
| Polarization | Primarily horizontal |
| VSWR | See plot below |
| Gain | -16 dBi at 2 MHz -2 dBi at 30 MHz |

| PHYSICAL | |
|--------------|---|
| Dimensions | Stowed: 12 H x 4 W x 3 D in (30.5 H x 10.1 W x 7.6 D cm) Deployed: 196 ft (60 meters). |
| Weight | 3 lbs 10 oz (1.6 kg) |
| Color/Finish | Black/OD finish |



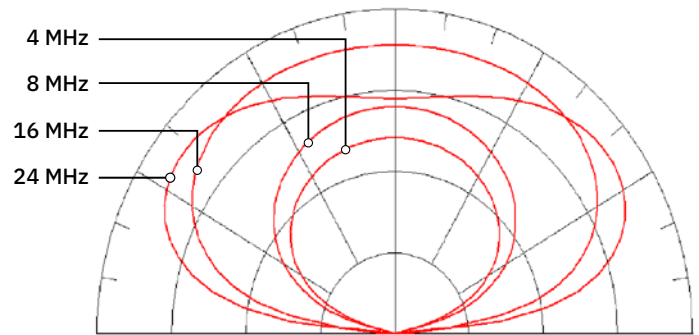
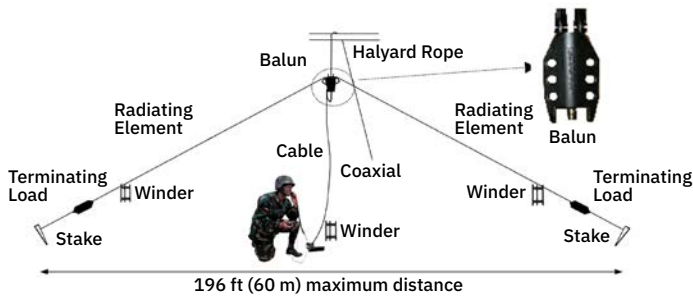
The RF-1944-AT020 antenna is a lightweight, portable broadband dipole antenna providing radiation patterns ideal for HF skywave communications from 0 to 500 miles. The rugged, yet simple design allows quick installation into its primary inverted VEE configuration. The termination loads support instantaneous bandwidth performance over the entire 1.6 to 30 MHz frequency range. The RF-1944-020 is very effective for operations employing agile waveforms such as ALE and frequency hopping.

TYPICAL RF-1944 VSWR AND IMPEDENCE PLOTS



RF-1944-AT020 (12006-1802-01) INVERTED VEE BROADBAND ANTENNA, 2-30 MHz, 20-WATTS

RF-1944 RADIATION PATTERNS FOR 4, 8, 16 AND 24 MHz



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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



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