The RF-3165-AT122 dismount antenna is a center-fed dipole antenna for use with the AN/PRC-117G(V)1(C) and RF-7800M-MP Falcon III® manpack transceivers. It connects directly to the high-band port of the Falcon III manpack radios via a custom N-type connector.

The antenna includes both a flexible gooseneck base that allows the operator to orient the antenna for optimum performance and a tubular, upper radiator. The passive matching network allows operation over the complete 225 to 2000 MHz band.

The antenna may also be attached to a rucksack and tethered to the radio via a coaxial cable. This will increase the isolation between the low-band and high-band antennas. Furthermore, with proper elevation of the antenna, the tethered configuration can enhance overall range performance.

## Electrical

- Frequency Range

225-2,000 MHz

- RF Power Capacity

10 watts

- Input Impedance

50 ohms (nominal)
■ Radiation Pattern
Omnidirectional in azimuth,
see radiation pattern below
Polarization
Linearly polarized, relative to 50 ohms
VSWR
<3.5:1

- Gain
$>-5 \mathrm{dBi}$ at 225 to 450 MHz
$>-5 \mathrm{dBi}$ at 1,350 to $1,550 \mathrm{MHz}$
$>-15 \mathrm{dBi}$ at all other frequencies


## Environmental

Meets MIL-STD-810F

## Mechanical

■ RF Connector
N-type male
■ Deployed Dimensions
22.5 inch (approx. 57 cm )

■ Weight
14.0 oz. ( 0.397 kg )

■ Color
Black, matte finish

## Features

Ruggedized antenna
■ Lightweight
■ Broadband passive matching
■ Extreme bandwidth

- May be removed from manpack and used via a coaxial cable

■ May be elevated to improve range


RF-3165 Typical Radiation Pattern when mounted on the Falcon III manpack over ground

