

L3HARRIS RF-3134-AT003/5

OTM Vehicular Loop Antenna

The RF-3134-AT003/5 is an On-The-Move (OTM) vehicular loop antenna designed for Near Vertical Incident Skyway (NVIS) HF communications. This high "Q" antenna provides required bandwidth with excellent efficiency with limited groudwave capabilities to maintain Line-Of-Sight links.



The RF-3134 interfaces to the Falcon® II series of HF radios including the RF-5800H and AN/PRC-150(C) when used with 125W and 150W amplifiers. The Vehicular Loop Antenna is fully compatible with Fixed-Frequency, MIL-STD-188-141B ALE, 2G and 3G ALE/data modes, when used with the RF-382A and RF-5382 HF couplers.

The Vehicular Loop Antenna is lightweight and has a low physical profile which makes it easy to install and uninstall from the standard L3Harris RF-292 Antenna Mount for quick interchange to other types of antennas. It does not depend on a ground plane and as a result can be used on most vehicles, or fixed installations. The RF-3134 has been designed for the same severe military environmental conditions as the rest of the Falcon II family.

The antenna includes full-loop antenna elements and tower, protective boot, coupler/PA cable, and high voltage cable installation kit.

Note: It works with the RF-382A and RF-5382 couplers, differing only in the associated power and control cable.



LOW-PROFILE, RAPID-DEPLOYMENT SOLUTION

KEY BENEFITS

- > High-efficiency antenna for OTM operations
- > Ruggedized to MIL-STD-810F for harsh environments
- > Supports quick interchange to other antennas
- Ideal for most vehicular and fixed installations

ELECTRICAL	
Frequency Range	2-30 MHz
Polarization	Horizontal in the zenith direction
Impedance	50 Ohms (nominal)
VSWR	< 2.0:1, when used with a L3Harris Coupler
Gain	> -24 dBi at 2 MHz, > -15 dBi at 3.5 MHz, > -8 dBi at 10 MHz, > -3 dBi at 30 MHz
Power Rating	150 W Continuous
Radiation Pattern	Quasi hemisphere

ENVIRONMENTAL	
Temperature	-40°F to 140°F (-40°C to +60°C)

MECHANICAL	
Dimensions	59 H x 59 W in (150 H x 150 W cm)
Weight	17.6 lbs (8 kg)
RF Connector	17 mm nut on a 10mm threaded stud
Color	Black matte finish

FEATURES

Low Profile—goes under camo nets Rugged (tested to MIL-STD-810F)

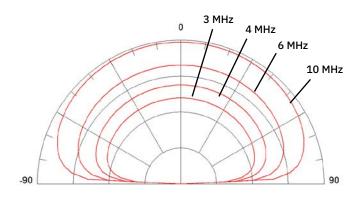
Does not require dedicated ground plane for operation

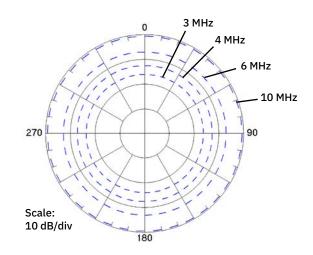
Quick interchangeability with a tilt-whip

At the halt, the L3Harris Coupler can be used with higher-gain deployable antennas $\,$

VARIATIONS	
RF-3134-AT003	For RF-382A couplers
RF-3134-AT005	For RF-5382 couplers

RF-3134C-AT003/5 Radiation Patterns







RF-3134-AT003/5 mounted on vehicle

RF-3134-AT003/5 OTM Vehicular Loop Antenna

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