



21-30-91M
NSN 5985-99-676-5555
UHF Satcom On-The-Move
Magnetic Mount Antenna
243 to 385 MHz

FEATURES

- **Dual Magnetic / four hole mount**
- **Robust Construction**
- **Lightweight (2.8 lbs max)**
- **+6 dBiC Gain**
- **All Weather operation**
- **Wide Angle pattern coverage**
- **200 Watts CW Power handling**
- **Right Hand Circular Polarization**
- **Designed to MIL-STD-810 environmental requirements**



Satcom on-the-Move requires antenna pattern coverage to be as near to hemispherical as possible. The CAL 21-30-91M utilizes a pair of quadrature connected UHF “droopy dipoles” with geometry arranged to maintain radiation coverage within a 120° cone.

It is constructed of rugged fiberglass/epoxy with aluminum alloy dipole elements and base housing. The antenna is foam filled for structural integrity and prevention of moisture ingress.

The 21-30-91M is designed for quick installation and deployment on ferrous roofed vehicles and shelters.

The magnetic mount is capable of retaining the antenna securely in position atop a vehicle at highway speeds up to 80 mph and cross country speeds up to 50 mph.

If a more permanent fixing is required, the antenna can be fixed down with four no 10 bolts or similar via the 4 holes provided on the base plate.

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Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

SPECIFICATIONS

Cooper Antennas Model 21-30-91M UHF Satcom On-The-Move Antenna

ELECTRICAL

Frequency	243 - 385 MHz
Gain	+6 dBiC at zenith
VSWR	≤ 1.5 : 1
Impedance (nominal)	50 Ohms
Power	200 Watts
Polarization	Right Hand Circular (at zenith)
Antenna RF Connector	Type N, Female
Operational Temperature	-25°C to + 71°C

MECHANICAL

Height	14.1 inches (358mm)
Dipole span	12.6 inches (320mm)
Weight	2.8 lbs (1.3kg)
Mounting	Magnetic mount or 4 hole fixing

FINISH

Standard	Desert Sand
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Other finish options are available. Please specify finish required when ordering.

Note: Cooper Antennas Ltd has a policy of continuous product improvement and data herein is therefore subject to change.
Please check with Cooper Antennas Ltd that this data sheet is at latest issue before initiating contract activity.