



**21-30-91**  
**UHF SATCOM on-the-Move**  
**Antenna**  
**243 to 385 MHz**

## FEATURES

- **Suitable for helicopter, vehicular, fixed and mobile applications**
- **Robust Construction**
- **Lightweight**
- **+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 21-30-91 utilizes a pair of quadrature connected UHF “droopy dipoles” with geometry arranged to maintain greater than 0 dBiC gain beyond 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 21-30-91 is suitable for “bolt-on” use on helicopters, sub-sonic aircraft, ships, land vehicles and shelters.

All external metal elements are DC grounded via the aluminum alloy baseplate which in turn provides overall grounding for the antenna when correctly fastened to its mounting surface.

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# SPECIFICATIONS

## Cooper Antennas Model 21-30-91 UHF SATCOM on-the-Move Antenna

### ELECTRICAL

Frequency	243 - 385 MHz
Gain (nominal)	+6 dBiC at Beam Max
VSWR	1.5:1
Impedance (nominal)	50 Ohms
Power	200 Watts max
Polarization	Right Hand Circular (at zenith)
Antenna RF Connector	N Female
Operational Temperature	-54°C to +71 °C

### MECHANICAL

Height	13 inches max (330mm)
Dipole span	13 inches (330mm)
Weight	2.4 lbs (1.08kg)
Mounting	4x 10-32 UNF (M5) or similar screws

### FINISH

21-30-91 Standard	Matt Black urethane
21-30-91F07 NSN 5985-01-538-6227	Desert Sand

**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.**