



**20-30-62**  
**NSN 5985-99-242-9494**  
**UHF SATCOM On-The-Move**  
**Antenna**  
**240 to 320 MHz**

## FEATURES

- **Suitable for vehicular, ship borne and shelter installations**
- **Robust construction**
- **Hemispherical radiation pattern coverage**
- **All Weather operation**
- **200 Watts CW Power handling**
- **Designed to MIL-STD-810 environmental requirements**
- **8 hole mounting plate**



The 20-30-62 is a rugged UHF Satcom antenna designed for use on military vehicles operating in worldwide conditions of service and specifically configured to provide satellite capture through hemispherical radiation pattern coverage. As such, it is ideally suited to Satcom on-the move applications where vehicle movement over rough terrain causes rapid changes in the angle subtended from the antenna to the satellite.

The 20-30-62 comprises a wide band Quadrifilar Helix, hybrid connected such as to provide essentially Right Hand Circular (RHC) polarization through a 180° solid angle.

The design and general configuration of the 20-30-62 ensures performance is minimally affected by different ground planes and mounting circumstances.

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# SPECIFICATIONS

Cooper Antennas Model 20-30-62

NSN 5985-99-242-9494

UHF Satcom On-The-Move Antenna

## ELECTRICAL

Frequency	240 - 270 MHz and 290 - 320 MHz
Gain (typical)	≥ +1.0 dBiC from 20° to 75° ≥ +3.5 dBiC from 75° to 90° ≥ -2.0 dBiC from 10° to 20°
VSWR	≤ 1.5:1
Impedance (nominal)	50 Ohms
Power	200 Watts CW
Polarization	Right Hand Circular
Antenna RF Connector	N Female

## MECHANICAL

Height	7 inches (178mm)
Radome Diameter	16.0 inches (406mm)
Base Plate Diameter	16.5 inches (419mm)
Weight	15.4 lbs (7kg)
Fixing Holes	8 holes x Ø 0.413 inches (10.5mm)

## FINISH

Standard Urethane lusterless desert tan

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.