



20-30-66
UHF SATCOM/MUOS
Antenna
240 to 385 MHz

FEATURES

- **Suitable for vehicular, shipborne and shelter installations**
- **Robust construction**
- **Near hemispherical radiation pattern coverage for MUOS/UHF Satcom**
- **Passive design - Requires no tuning**
- **200 Watts CW Power handling**
- **Designed to MIL-STD-810 environmental requirements**
- **4 hole CECOM adaptor plate available**
- **Vehicle mount telescopic mast available**



The 20-30-66 is a rugged UHF Satcom/MUOS 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 20-30-66 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 of the 20-30-66 ensures performance is minimally affected by different ground planes and mounting circumstances.

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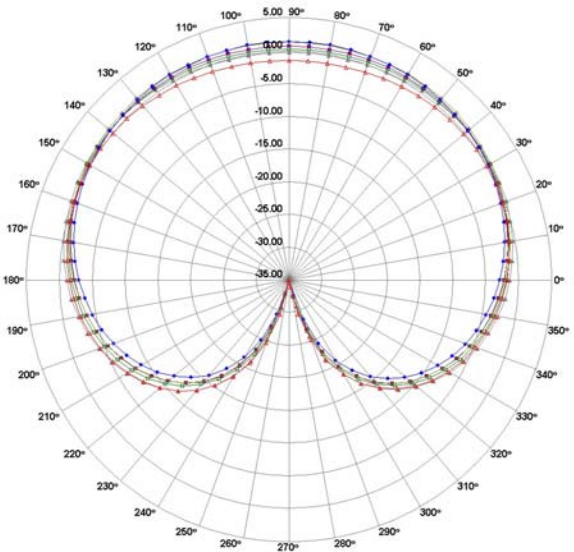
SPECIFICATIONS

Cooper Antennas Model 20-30-66 UHF Satcom/MUOS Antenna

ELECTRICAL

Frequency	240 - 385 MHz
Gain (Typical)	Between -1.5 and 0 dBiC throughout elevation angles of +10° to 90° ≥ - 2.5 dBiC below 10° elevation
VSWR	≤ 2:1
Impedance (nominal)	50 Ohms
Power	200 Watts CW
Polarization	Right Hand Circular
RF Connector	N Female

intenna elevation patterns, RHCP,
min[dB] 4=0



Pattern at 240 270 290 320 360 380 MHz

MECHANICAL

Height	14.17 inches (360mm)
Radome Diameter	11.25 inches (286mm)
Base Plate Diameter	13 inches (330mm)

FINISH

Weight	10 lbs (4.55kg)
Standard	Urethane Lusterless Desert Tan
	Other finish options are available
	Please specify finish required when ordering

OPTIONAL EXTRAS

4 Hole CECOM Adaptor Plate-Part No. 20391
Vehicle Mount Telescopic Mast

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.