

21-50-61-1 UHF/MUOS SATCOM and VHF/UHF LOS Antenna 240 to 385 and 140 to 250 MHz

## **FEATURES**

- Suitable for helicopter, vehicular, fixed and shipborne applications
- Covers UHF Satcom and MUOS as well as VHF/UHF Line of Sight (LOS)
- All Weather operation
- Wide Angle pattern coverage without Hi-Lo switching
- 200 Watts CW Power handling for Satcom
- Designed to MIL-STD-810



Combining highly efficient "droopy dipoles" with a wide band, line-of-sight linear element, the 21-50-61-1 provides Hi-Lo angle UHF Satcom from a single connector plus a separate VHF/UHF element in a single antenna.

Element shaping and matching of the circularly polarized dipoles provides UHF Satcom coverage right through the UHF and MUOS band with useable radiation and gain typically from zenith down to 20 degrees or less above the horizon.

The robust design is suitable for helicopter and fixed wing aircraft operating up to 350 knots as well as vehicles, fixed sites and ships.

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## SPECIFICATIONS Cooper Antennas Model 21-50-61-1 UHF/MUOS SATCOM and VHF/UHF LOS Antenna

ELECTRICAL		
Frequency	Line of Sight (LOS) : Satcom :	150 - 400 MHz 240 - 385 MHz
Gain (typical)	LOS: Satcom:	≥ 0 dBi (average) 150 - 250 MHz ≥ + 1.5 dBi (average) 251 - 400 MHz +6 dBiC @ Zenith ≥ 0 dBiC @ all elevation angles above +25°
VSWR	LOS: Satcom:	≤ 2.5:1 ≤ 1.75:1
Impedance (nominal)		50 Ohms
Power	LOS : Satcom :	50 Watts VHF, 200 Watts UHF 200 Watts
Polarization	LOS: Satcom:	Linear Right Hand Circular (maximum at zenith)
Antenna RF Connector	LOS: Satcom:	TNC Female N Female
Operational Temperature		-54°C to +71°C
MECHANICAL		
Overall Height	12 inches (305mm)	
Weight	4.5 lbs (2kg)	
FINISH		
Standard Urethane Lusterless Grey FED-STD 595 36173 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.