



21-50-63
**Multi-Band VHF/UHF,
Communications Antenna**
30 to 88MHz, 118 to 400 MHz

FEATURES

- **Aero-dynamic design**
- **Light weight/ high strength**
- **Fully environmentally sealed**
- **Internal VHF/UHF filters**
- **Full 30-88 and 118-400 MHz LOS communications with no tuning required**
- **SINGARS, HAVEQUICK & VHF/ATC compatible.**
- **Designed to MIL-STD-810 Environmental Conditions**



The 21-50-63 is a rugged multifunction VHF/UHF communications antenna designed for airborne applications. A high strength vertical shell houses 30 - 88 and 118 - 400 MHz linear elements to be used with separate VHF & UHF line of sight “LOS” communications radios. Footprint is compatible with Collins 437S-1H and Chelton 12-437 series antennas. The use of top loading disc optimises the efficiency in the VHF and the antenna provides omni-directional radiation throughout the operating frequency range.

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SPECIFICATIONS

Cooper Antennas Model 21-50-63

Multi-Band, Communications Antenna

ELECTRICAL

Frequency	30-174 MHz / 225-400 MHz
Gain	≥ -16 dBi @ 30 MHz ≥ -7 dBi @ 88 MHz ≥ -1 dBi (average) over 118 -174 MHz ≥ +1.5 dBi over 225 - 400 MHz
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	50 Watts (30 – 88 MHz) 50 Watts (118 - 174 MHz) 100 Watts (225 - 400 MHz)
Polarization	Vertical
Isolation	50 dB between ports
Antenna RF Connector	UHF : N Female VHF : TNC Female

MECHANICAL

Height	13 inches max (330 mm)
Mounting Hole	8 x Ø 0.208 - 0.234 inches holes, counter bore Ø 0.39 inch
Weight	6.5 lbs (2.95 kg)

FINISH

Antenna	Urethane lusterless Black
Base Plate	Unpainted

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.