



20-50-60
Low Profile
VHF/UHF Vehicular Antenna
30 to 512 MHz

FEATURES

- **Suitable for vehicular, shelter and ship borne installations**
- **Robust construction**
- **Full 30-512 MHz operation**
- **All Weather operation**
- **Low height**
- **Designed to MIL-STD-810 environmental requirements**
- **Excellent gain vs height performance**
- **Low VSWR**



Designed to provide optimum performance in a low height, type 20-50-60 is a discone type wide band antenna build into a rugged cylindrical Radome capable of withstanding typical military vehicle operations. This antenna is one of CAL's multiband designs particularly suited to special mission and on-the-move operations. This version has a flat base of 13 inches diameter for surface mounting on a vehicle with the connector projecting thru the skin into the vehicle.

The antenna utilizes the vehicle structure as a counterpoise or ground plane.

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SPECIFICATIONS

Cooper Antennas Model 20-50-60 Low Profile VHF/UHF Vehicular Antenna

ELECTRICAL

Frequency	30 - 88 MHz 108 - 174 MHz 225 - 512 MHz
Gain (typical)	≥ -13 dBi average 30 - 88 MHz ≥ -4 dBi average 108 - 174 MHz ≥ 0 dBi minimum 225 - 512 MHz
VSWR	≤ 3:1 VHF ≤ 2.5:1 UHF
Impedance (nominal)	50 Ohms
Power	100 Watts CW
Polarization	Vertical when mounted vertically
Antenna RF Connector	N Female

MECHANICAL

Height	14 inches (356mm)
Diameter of radome	11.25 inches (286mm)
Base plate diameter	13 inches (330)
Weight	10 lbs (4.55kg)
Fixing Holes	4 holes x Ø 0.413 inches (10.49mm)

FINISH

Standard	Urethane lusterless desert tan
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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.