



**20-20-40**  
**VHF Spring-Mounted Vehicular**  
**Communication Dipole Antenna**  
**136 to 200 MHz**

## FEATURES

- **Lightweight**
- **Spring Mounted CECOM base**
- **Robust construction**
- **100 Watts CW**
- **+ 1 dBi Gain**
- **Wide Bandwidth**
- **Designed to MIL-STD-810 environmental conditions**
- **Supplied in Desert Sand or NATO Green**
- **Ground plane independent**

The 20-20-40 is a high performance, spring mounted wide band VHF antenna intended for vehicular, ship borne or fixed shelter installations.

When vehicular mounted, its spring base minimizes impact damage and also allows for tie down stowage.

The antenna is designed as a an end fed dipole, with it's radiating element elevated and "choked" off to minimize pattern corruption from different mounting circumstances.

Lossless matching and the geometry of the antenna feed arrangement combine to produce a very efficient antenna covering the entire high VHF/FM frequency band.



**Cooper Antennas Ltd for non-USA customers**  
Thames Industrial Estate, Unit K, Fieldhouse Lane,  
Buckinghamshire SL7 1TB, UK  
Tel: +44 (0) 1628 482 360  
Email: [sales@cooperantennas.com](mailto:sales@cooperantennas.com)  
[www.cooperantennas.com](http://www.cooperantennas.com)



**Australian Representatives**  
**ROJONE, PTY LTD.**  
Tel: 02 9829 1555  
E: [sales@rojone.com.au](mailto:sales@rojone.com.au)  
[www.rojone.com.au](http://www.rojone.com.au)

# SPECIFICATIONS

## Cooper Antennas Model 20-20-40

### VHF Spring-Mounted Vehicular Communication Dipole Antenna

#### ELECTRICAL

<b>Frequency</b>	<b>136 - 200 MHz</b>
<b>Gain (typical)</b>	<b>+1 dBi</b>
<b>VSWR</b>	<b>≤ 2.5:1</b>
<b>Impedance (nominal)</b>	<b>50 Ohms</b>
<b>Power</b>	<b>100 Watts CW</b>
<b>Polarization</b>	<b>Vertical</b>
<b>Antenna RF Connector</b>	<b>BNC Female</b>

#### MECHANICAL

<b>Total Height</b>	<b>48 inches (1219mm)</b>
<b>Element Diameter</b>	
<b>Antenna</b>	<b>2.25 inches (57mm)</b>
<b>Base</b>	<b>5.5 inches (140mm)</b>
<b>Mounting</b>	<b>4 hole on 4.5 inches (114mm) circle to CECOM standard pattern</b>
<b>Weight</b>	<b>10 lbs (4.55kg)</b>

#### FINISH

<b>Finish</b>	<b>Urethane Desert Sand and Lusterless</b>
---------------	--

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.