



20-20-16
High Power VHF Antenna
Vehicle Mounted
90 to 200 MHz

FEATURES

- **Omnidirectional azimuth pattern**
- **CECOM mounting plate with spring for base station or mobile applications.**
- **No tuning required**
- **Only 48 inches overall height**
- **Meets MIL-STD-810 environment**
- **100 Watts power handling**
- **Excellent gain maintained by passive impedance matching throughout frequency band**
- **Detachable top element for stowage**



The 20-20-16 is a high performance wide band VHF antenna intended for use with the radio systems operating within the frequency band 90 to 200 MHz.

The antenna comprises a CECOM plate mounted monopole VHF element.

Proprietary matching techniques are employed to maintain VSWR relatively independently of ground plane. Construction comprises a spring mounted aluminum alloy base unit with integral matching circuits supporting a detachable aluminum alloy top element. The whole assembly is foam filled to provide maximum strength and prevent the ingress of moisture.

The antenna is provided with a side mounted N-type connector.

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SPECIFICATIONS

Cooper Antennas Model 20-20-16 HIGH POWER VHF Antenna - Vehicle Mounted

ELECTRICAL

Frequency	90-200 MHz
Gain	-3 dBi average
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	100 Watts CW
Polarization	Linear (vertical when vertically mounted)
Antenna RF Connector	N-type female
Operational Temperature	-40°C to +71°C

MECHANICAL

Fixings	CECOM pattern base having four 7/16 inch (11.1 mm) dia holes on 4.5 inch (114 mm) circle.
Overall Height	48 inches (1219 mm)
Weight	7.2 lbs (3.27 kg)

FINISH

Finish	Urethane Desert Sand
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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.**