



**20-20-21  
VHF Antenna  
25 to 88 MHz**

## FEATURES

- **Lossless matching ensures high gain thru the band**
- **Rugged construction for on-the-move applications**
- **Small diameter element for low visibility**
- **No tuning required**
- **Meets MIL-STD-810 environment**
- **200 Watts power handling**
- **Detachable top element**
- **Tripod legs fold back for stowage and transportation**



The 20-20-21 is a vertically polarized, omni-directional antenna. It is compatible with all popular military radios operating in the 25 to 88 MHz frequency range. The antenna can handle 200 Watts of power.

It is a member of a family of quickly deployed lightweight antennas developed by Cooper Antennas for tactical military communications. Rugged design ensures reliability in arctic, jungle or equatorial desert environments. The antenna can be quickly set up or stowed by a single person under the most demanding combat conditions. It is especially well suited to special mission applications.

No external tuning is required and this antenna does not use any resistive (lossy) components for matching to a VSWR typically better than 2.5:1. The removable telescopic tripod legs enable easy leveling on uneven terrain. A threaded fitting in the base also facilitates mounting on top of a mast.

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**Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved**

# SPECIFICATIONS

## Cooper Antennas Model 20-20-21 VHF Antenna

### ELECTRICAL

Frequency	25 - 88 MHz	
Gain (typical at beam maximum)	25 MHz	-3 dBi
	30 - 88 MHz	0 dBi
VSWR	25 MHz	5.6:1
	30 - 85 MHz	2.5:1 max
	86 - 88 MHz	3.0:1 max
Impedance (nominal)	50 Ohms	
Power	200 Watts CW	
Polarization	Vertical	
Antenna RF Connector	N Female	
Operational Temperature	-40°C to +71°C	

### MECHANICAL

Fixings	Tripod mounted
Overall Height	115 inches (2921mm)
Stowed size	36 inches (915 mm ) long x 8 inches (203mm) wide
Weight	10 lbs (4.55kg)

### FINISH

Finish	Urethane Lusterless Black
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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.