



**20-30-40**  
**NSN 5985-99-250-1970**  
**UHF Spring-Mounted Vehicular**  
**COM and EPLRS Antenna**  
**225 to 450 MHz**

## FEATURES

- **Lightweight**
- **Spring Mounted CECOM base**
- **Robust construction**
- **200 Watts CW**
- **+ 2 dBi Gain**
- **Wide Bandwidth**
- **Designed to MIL-STD-810 environmental conditions**
- **Supplied in Desert Sand or NATO Green**
- **Ground plane independent**

The 20-30-40 is a high performance, spring mounted wide band UHF 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 center fed dipole, with its lower element acting as an RF choke to minimize pattern corruption from different mounting circumstances.

Lossless matching and the geometry of the antenna feed arrangement combine to produce a very efficient UHF antenna covering the entire frequency band of 225 - 450 MHz.



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# SPECIFICATIONS

## Cooper Antennas Model 20-30-40 UHF Spring-Mounted Vehicular COM and EPLRS Antenna

### ELECTRICAL

Frequency	225 - 450 MHz
Gain (typical)	+2 dBi
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	200 Watts CW
Polarization	Vertical
Antenna Connector	BNC Female

### MECHANICAL

Total Height	46.5 inches (1181mm)
Element Diameter	
Antenna	2.25 inches (57mm)
Base	5.5 inches (140mm)
Mounting	4 holes on 4.5 inches (114mm) circle to CECOM standard pattern
Weight	6.9 lbs (3.14kg)

### FINISH

Antenna	Urethane Desert Sand and Lusterless black spring
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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.