



**20-30-40-1**  
**Dual Output UHF**  
**Communications and EPLRS**  
**Antenna**  
**225 to 450 MHz**

## FEATURES

- **Lightweight**
- **Spring Mounted CECOM base**
- **Robust construction**
- **200 Watts CW**
- **Designed to sustain 25 m.p.h. “Oak Beam Test”**
- **Wide Bandwidth**
- **Designed to MIL-STD-810 environmental conditions**
- **Ground plane independent**

The 20-30-40-1 is a high performance, spring mounted wide band UHF antenna intended for vehicular, ship borne or fixed shelter installations where a twin output for feeding two separate radios is required.

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

The antenna is an end fed dipole, with signal split via a 3dB coupler, resulting in a ground-plane independent design.

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.



**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)



**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 20-30-40-1 Dual Output Communications and EPLRS Antenna

### ELECTRICAL

Frequency	225 - 450 MHz
Gain (typical)	-1 dBi (after split)
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	200 Watts CW
Polarization	Vertical
Antenna Connector	2 x 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	7 lbs (3.2kg)

### 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.