



20-30-10 & 20-30-10M
Foldable UHF SATCOM Antenna
225 to 400 MHz

FEATURES

- **Suitable for vehicular, shipborne manpack and shelter application**
- **Rapid Deployment**
- **Hemispherical radiation pattern coverage with separate Hi and Lo angle elements**
- **200 Watts CW Power handling**
- **Designed to MIL-STD-810 environmental requirements**
- **4 hole fixing or magnetic mount variants**
- **Less than 11 inches high**



The 20-30-10 series are combined Hi-Lo angle UHF Satcom Antenna designed for installation on a vehicle roof, shelter or housing via either a fixed or magnetic base. The 21-30-10 series has 4 spring loaded elements which can be easily and immediately deployed.

The antennas consist of two co-located elements; a circularly polarized cross-dipole and a linearly polarized broadband monopole. The two elements have separate RF feeds, and by manual selection of either, full hemispheric pattern coverage is provided. The Lo angle mode is intended for elevation angles up to about 45° and the Hi angle for approximately 45° to zenith. Optimum function is achieved when the surface upon which the antenna is mounted acts as an effective ground plane.

Construction is from rugged fiberglass, foam-filled for structural integrity and prevention of moisture ingress with aluminum alloy dipole elements and base housing.

The 20-30-10 series of antennas offer best in class performance, combined with portability and fast deployment time. Lightweight and compact, they are ideal for special mission applications.

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SPECIFICATIONS

20-30-10 and 20-30-10M

Foldable UHF SATCOM Antenna

ELECTRICAL

Frequency	Lo Angle : 225 - 400 MHz Hi Angle : 225 - 400 MHz
Gain (typical)	Lo Angle: +3 dBiL Hi Angle: +8 dBiC
VSWR	Lo Angle: ≤ 3.0:1 Hi Angle: ≤ 1.5:1
Impedance (nominal)	50 Ohms
Power	200 Watts CW
Polarization	Lo Angle: Linear Hi Angle: Right Hand Circular (maximum at zenith)
Antenna RF Connector	Lo Angle: TNC Female Hi Angle: N Female
Operational Temperature	- 66°F (- 54 °C) to + 160°F (+71°C)

MECHANICAL

Dipole span	19.9 inches (505mm)
Overall Height	10.55 inches (268mm)
Weight	2.75 lbs (1.25kg)
Fixings 20-30-10	4 holes, 0.203 inches (5.16mm) diameter
Fixings 20-30-10M	Magnetically mounted base plate

FINISH

Standard	Black urethane
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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.