



21-30-29/1
UHF SATCOM Antenna
225 to 400 MHz

FEATURES

- **Suitable for vehicular, ship borne and shelter installations**
- **Robust Construction**
- **Hemispherical radiation pattern coverage with separate Hi and Lo angle elements**
- **All Weather operation**
- **200 Watts CW Power handling**
- **Designed to MIL-STD-810 environmental requirements**
- **4 hole mounting plate**



The 21-30-29/1 is a combined Hi-Lo angle UHF Satcom Antenna designed for installation on military vehicle roof, shelter or housing via a 4 hole mounting plate. The 21-30-29/1 coaxial connectors are fitted to the side of the base.

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.

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

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

SPECIFICATIONS

Model 21-30-29/1

UHF SATCOM Antennas

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 (505 mm)
Overall Height	10.55 inches (268 mm)
Weight	2.75 lbs (1.25 kg)

FINISH

Standard	Lusterless black urethane
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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.**