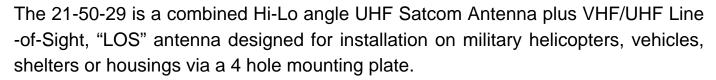


21-50-29
NSN 5985-99-415-5299
Multi-band Satcom &
Communication Antenna
225 to 400 MHz & 30 to 512 MHz

## **FEATURES**

- Suitable for helicopter, vehicular, shipborne 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 antenna comprises 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 for UHF Satcom and omnidirectional azimuthal coverage for LOS.

The low angle satcom is intended for elevation angles up to about 45° and the high angle for approximately 45° to zenith.

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

#### 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

www.cooperantennas.com



Australian Representatives ROJONE, PTY LTD.

Tel: 02 9829 1555 E: sales@rojone.com.au www.rojone.com.au

# **SPECIFICATIONS**

# Cooper Antennas Model 21-50-29 Multi-band Satcom & Communication Antenna

		٠т	DI	$\sim 1$	١ı
EL	Eι	,	יוא	$oldsymbol{\cup}$	٦L

Frequency Low Angle: 30 - 512 MHz

High Angle: 225 - 400 MHz

Low Angle: ≥ -23 dBi @ 30 MHz

≥ -7 dBi @ 88 MHz

Gain (typical) ≥ -2.5 dBi a@ 118 - 174 MHz

≥ 0 dBi to +3 dBi @ 225 - 512 MHz

High Angle: +6.5 dBiC a@ 318 MHz

Low Angle: ≤ 2.75:1 30 - 450 MHz,

VSWR ≤ 3.0:1 450 - 512 MHz

**High Angle:** ≤ 1.75:1

Impedance (nominal) 50 Ohms

Power Low Angle: 75 Watts VHF, 200 Watts UHF

High Angle: 200 Watts

Polarization Low Angle: Linear

High Angle: Right Hand Circular (maximum at zenith)

Antenna RF Connector Low Angle: TNC Female

High Angle: N Female

Operational Temperature -54°C to +71°C

## **MECHANICAL**

Dipole span 20 inches (508mm)

Overall Height 12 inches (305mm)

Weight 4.5 lbs (2kg)

### **FINISH**

Standard Urethane lusterless black

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.