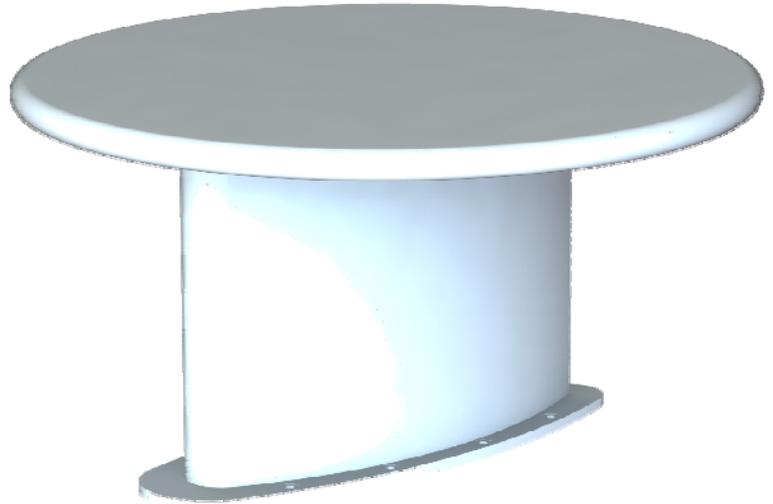




21-50-70
**Multi-Band Satcom &
Communications Antenna**
240 to 400 MHz & 30 to 512 MHz

FEATURES

- **Low Height**
- **High Strength**
- **Fully environmentally sealed**
- **Hi and Lo angle UHF Satcom coverage**
- **Full 30 - 512 MHz LOS communications**
- **PRC-117G, AN/ARC-210 & AN/ARC-231 compatible**
- **Footprint fixings compatible with 437S1-H**



The 21-50-70 is a rugged multifunction VHF/UHF, AM-FM, (LOS) and Satcom (BLOS) antenna designed for airborne, applications.

A high strength aerodynamic vertical shell houses a 30 - 512 MHz linear element that can be used for V/UHF line of sight "LOS" communications or UHF Satcom "BLOS" at low angles of elevation. This vertical shell also supports a "Frisbee" shape horizontal element containing a pair of cross dipoles, connected to provide high angle, right hand circularly polarized UHF Satcom coverage.

The antenna is capable of operating in temperatures of -40°C to 120°C.

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 21-50-70

Multi-band Satcom & Communications Antenna

ELECTRICAL

Frequency	Hi Angle (BLOS): 240 - 400 MHz Lo Angle (LOS): 30 - 512 MHz
Gain (typical)	Hi Angle (BLOS): +6 dBiC @ zenith Lo Angle (LOS): -26 dBi @ 30 MHz -12 dBi @ 88 MHz -8 dBi average 118 -174 MHz +1 dBi average 225 - 400 MHz 0 dBi average 400 - 512 MHz
VSWR	Hi Angle : ≤ 2.0:1 Lo Angle : ≤ 2.5:1
Impedance (nominal)	50 Ohms for both ports
Power	Hi Angle (BLOS): 100 Watts CW Lo Angle (LOS): 50 Watts (30-88 MHz), 50 Watts (118-175 MHz), 100 Watts (225-512 MHz)
Polarization	Hi Angle (BLOS): Right Hand Circular Lo Angle (LOS): Vertical, Linear
Antenna RF Connector	Hi Angle (BLOS): N Female Lo Angle (LOS): TNC Female

MECHANICAL

Height	8.2 inches (208.3 mm) max
Disc diameter	15.9 inches (404 mm) max
Mounting Hole Configuration	8 holes each 0.208 - 0.234 dia. Inches (5.28 - 5.94mm)
Weight	8.16 lbs (3.7kg) max

ENVIRONMENTAL

Designed to Environmental	MIL-E-5400 Class 2 / MIL-STD-810
---------------------------	----------------------------------

FINISH

Antenna: Urethane Lusterless Grey FED-STD 595 36173 Baseplate: Unpainted, Alocrom

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.