



L3HARRIS™
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C34 SERIES AIRBORNE UHF SATCOM ANTENNAS

The C34 Antenna Series pioneered UHF satcom for fixed-wing aircraft in the mid-1970s. The first of its kind, this dual-mode (high- and low-angle) antenna is now standard equipment for many operational fixed-wing satcom programs including UHF satellite terminal systems (USTS) on the C-130, C-141 and C-5 aircraft. The basic antenna provides two separate radiating structures located within one aerodynamic housing. A vertically polarized blade antenna provides omnidirectional azimuth coverage from the horizon to 30 degrees elevation, which is accessed through the J8 connector.

An independent turnstile antenna provides right-hand circular polarized (RHCP) coverage from 30 degrees elevation through zenith with the use of an external 0- to 90-degree hybrid coupler, connected to the J9 and J10 input ports. Input power options are cost effectively selected by using one of the three hybrids (i.e., the H26-1, H29-1 or H25-1) offered as accessories. A separate 50-ohm load termination is also required, which must be capable of sustaining a power level equivalent to 25 percent of the input power.



PARAMETER	SPECIFICATION
Electrical	
Frequency range	225–400 MHz
VSWR	
High angle	1.5:1 max with hybrid
Low angle	2.0:1 240 to 370 MHz 2.5:1 370 to 400 MHz
Gain	
High angle	+6.0 dBic
Low angle	Within 2.0 dB of a monopole
Polarization	
High angle	Right-hand circular
Low angle	Vertical
Mechanical	
Connectors	SC female
Weight	28 lbs (12.7 kg)
Drag	6.0 lbs at 45,000 ft, Mach 0.78
Qualification	MIL-E-5400 Class II
Storage temperature	-54° to +250°F

KEY FEATURES

- > Dual mode (high and low angle)
- > Lightning protected
- > Nuclear hardened
- > Multiple input power options
- > High reliability

For further details and specifications, contact the factory at antenna.info@L3Harris.com

C34 Series Airborne UHF Satcom Antennas

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Cleared by OFOISR for Public Release | 1099-211

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1500 New Horizons Blvd
Amityville, NY 11701
t 631 630 4000
antenna.info@L3Harris.com