



C175 SERIES DUAL-MODE BATWING UHF ANTENNA

The C175 Dual-Mode Batwing Antenna represents the latest in airborne UHF satcom antenna technology. Extremely lightweight and Mach 0.88 capable, the antenna provides for operation over the complete hemisphere with two separate antennas housed in one MIL-E-5400 qualified structure.

A low-angle monopole antenna provides coverage from 0 degrees to +40 degrees above the horizon. A separate crossed dipole antenna provides circularly polarized high angle coverage in the +40-degree to 90-degree (zenith) elevation sector. The high angle mode's hybrid coupler and 50-ohm load termination are housed internally to the unit thereby greatly simplifying installation and reducing customer supplied system accessories to a coaxial switch and interconnecting cables.

The C175 is ideally suited for rotary- or fixed-wing aircraft due to its lightweight, low-drag profile and ease of installation. Several versions are available, including the most recent version, the C175-5, which features a strengthened housing for high vibration environments.



KEY FEATURES

- > Dual-mode, hemispheric coverage
- > Low drag
- > Lightweight
- > High strength housing option

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

PARAMETER	SPECIFICATION		
Electrical			
Frequency range	-1	Low angle High angle	225-400 MHz 240-400 MHz
	-5	Low angle High angle	243-318 MHz 243-318 MHz
VSWR		Low angle High angle	2.5:1 1.5:1
Gain		Low angle High angle	Average within 2 dB of a quarter-wave stub +6.0 dBic typical
Polarization		Low angle High angle	Vertical Right hand circular
Radiation patterns	Hemispherical		
Power handling	200 W average		
Mechanical			
Connector	Type N female	J8 low angle J9 high angle	
Weight	C175-1 C175-5	7.5 lbs 8.5 lbs	
Finish	C175-X-1 C175-X-2	White Black	

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