



# AS-48603 BROADBAND CIRCULARLY POLARIZED SPIRAL HELIX ANTENNA

AS-48603 Spiral Helix Antenna provides broadband frequency capabilities in a small physical size. This capability is achieved by combining the radiating characteristics of both the planar spiral and helix into a single assembly, thereby more effectively utilizing the volume.

The axial ratio is extremely low over the majority of the radiation pattern. This performance characteristic, as well as a good radiating efficiency, makes the AS-48603 antenna very suitable as a sector element in full azimuthal direction finding (DF) arrays.

The AS-48603 is designed to meet the rigorous environments imposed for military applications. It is a highly reliable maintenance-free antenna adaptable to a variety of platforms.

ELECTRICAL	
Frequency range	0.25 to 2 GHz
VSWR	2.5:1 max
Gain	1 dBic avg
Polarization	RH or LH circular
Beamwidth 3 dB (BW)	97° avg
Axial ratio	1.0 dB avg
MECHANICAL	
Connector	SMA female
Weight	3.5 lbs (1.6 kg)



## KEY FEATURES

- > Broad ultra high frequency (UHF) to S-band frequency coverage
- > Combined planar spiral and helix design
- > Right or left hand circular polarization options
- > Suitable for DF array applications

**For further details and specifications, contact the factory at [antenna.info@L3Harris.com](mailto:antenna.info@L3Harris.com)**

