

# Poynting HELI-6, Directional, Circular-Polarised Tunnel, 4G/LoRa antenna; 698 to 960 MHz

SKU: ANT-PY-00009

MPN: A-HELI-0006-V1-01

## Description

The Poynting HELI-6 is a high-performance directional, circular-polarised helical antenna ideal for 4G/LoRa applications. Operating within the 698 to 960 MHz frequency range, this antenna ensures robust connectivity for GSM, M2M, and digital television systems. Its left-hand circular polarisation enhances signal reception in challenging environments, making it ideal for tunnel and other demanding installations.

With a peak gain of 13.5 dBi and a VSWR of less than 2.0:1, the HELI-6 delivers excellent RF performance. It features a single N Female connector, directly mounted on the antenna, providing streamlined installation. The antenna is constructed from durable polyvinyl chloride (PVC), ensuring reliability in harsh conditions, as indicated by its IP65 rating and ability to operate between -40 °C and 70 °C.

Compliant with CE and RoHS standards and tested to meet MIL-STD-810 environmental durability, the HELI-6 is built for longevity and...

[Read More](#)

## RF Specification

Start Frequency:	698 MHz	Polarisation:	Left Hand Circular (LHCP)
Stop Frequency:	960 MHz	Input Impedance:	50 Ω
Max. Input Power:	30 W	Poynting is the top global provider of integrated antenna solutions, responsible for the innovation, design and manufacture of its market-leading products. Established as a consultancy in 1990, Poynting evolved into an official PTY in 1997 and in 2001 established Poynting Antennas. It caters antenna solutions for primarily wireless high speed data applications, including residential 4G LTE as well ...	

RF Connectors

**Ports**

1

**RF Interface**

N Female

## Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR
690 MHz	960 MHz	13.5 dBi	< 2:1

# Physical Specification

Subtype:	Helical	Dimensions:	705 x 245 x 197
Input Ports:	1	Ingress Protection:	IP65
MIMO:	1x1 SISO	Materials:	Polyvinyl Chloride (PVC)
Min. Operating Temperature:	-40 °C	Weight:	4.2 kg
Max. Operating Temperature:	70 °C	Compliance/Certifications:	CE
		RoHS	'
		Mechanical Compliance:	MIL-STD-810: Environmental Durability

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

