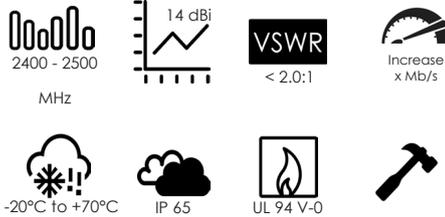


ANTENNAS | HELI-8

HELI-8

2400 - 2500 MHZ BI-DIRECTIONAL TUNNEL ANTENNA



- Bi-directional
- Ruggedised
- Future proof

Product Overview

The tunnel antenna is the ideal antenna for 2.4-2.5 GHz wireless applications in tunnels. In tests, both the data rate and range achieved with this antenna was greater than obtained when using linearly polarized panel antennas of the same gain. The hardy construction of this antenna makes it ideal for the mining environment. A-HELI-0008 is a Bi-directional antenna whilst the closely related A-HELI-0003 fires in one direction.

Features

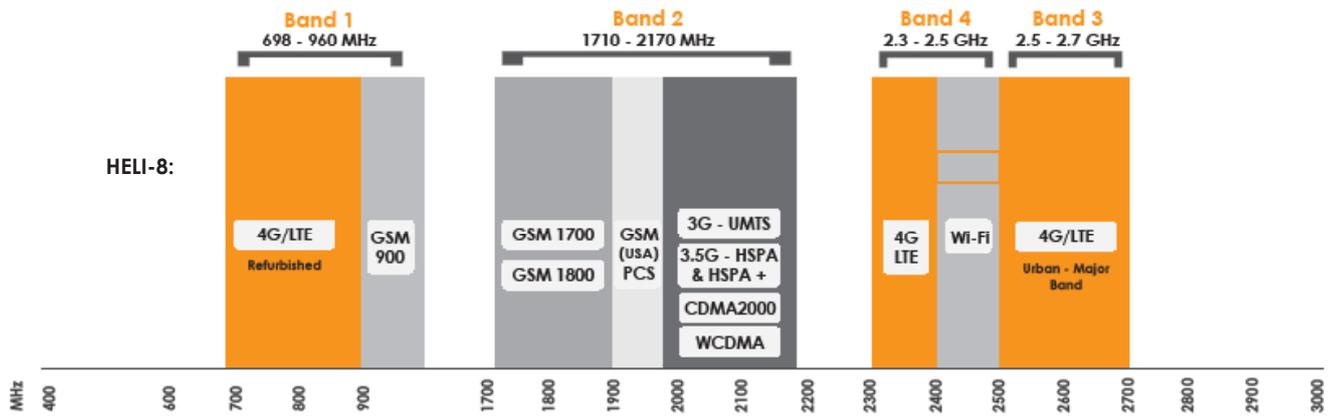
- High Gain
- Rugged Construction



Frequency bands

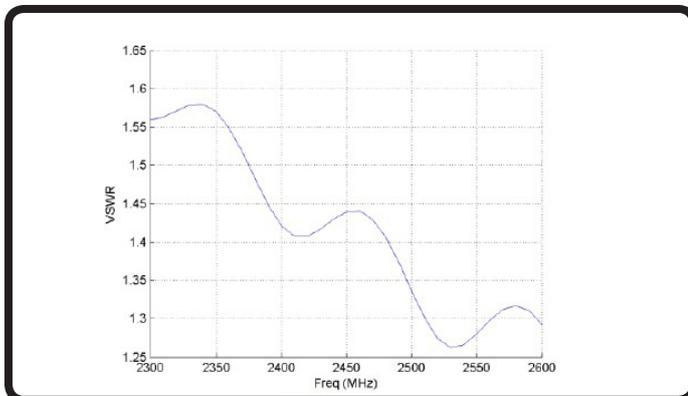
The HELI-8 is a wide-band antenna that works from 2400 - 2500 MHz

 Indicates the bands on which this antenna works



Antenna Performance Plots

VSWR:

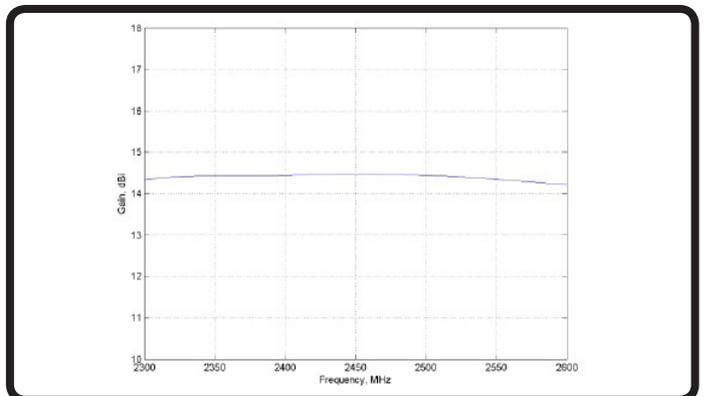


Voltage Standing Wave Ratio (VSWR)

VSWR is a measure of how efficiently radio-frequency power is transmitted from a power source, through a transmission line, into a load. In an ideal system, 100% of the energy is transmitted which corresponds to a VSWR of 2.0:1.

The HELI-8 delivers superior performance across all bands with a VSWR of < 2.0:1 or better.

Gain: (excluding cable loss)



Gain* in dBi

14 dBi is the peak gain across all bands from 2400 - 2500 MHz

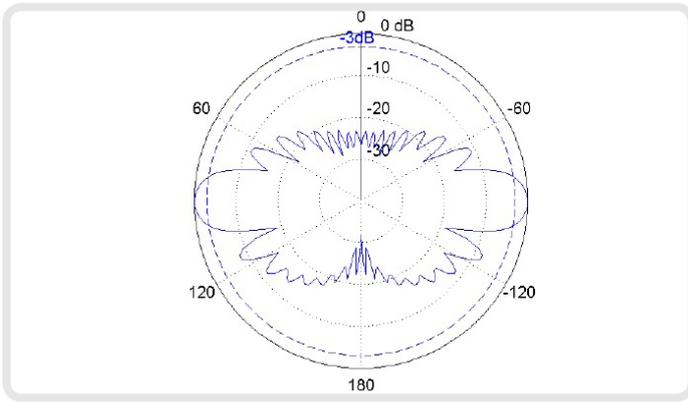
Gain @ 2400-2500 MHz:

14 dBi

*Antenna gain measured with polarisation aligned standard antenna

Radiation Patterns

H-Plane



Electrical Specifications

Frequency Bands:	2400 - 2500 MHz
Gain (Max):	14 dBi
VSWR:	<2.0:1
Feed Power Handling:	10 W
Input impedance:	50 Ohm (nominal)
Polarisation:	Circular
DC Short:	No

Environmental Specifications

Temperature Range (Operating):	-20°C to +70°C
Environmental Conditions:	Outdoor/Indoor
Operating Relative Humidity:	Up to 98%
Storage Humidity:	5% to 95% - non condensing
Storage Temperature:	-20°C to +70°C

Ordering Information

Commercial name:	HELI-8
Order Product Code:	A-HELI-0008
EAN number:	

Additional Accessories Available

Extension Cables:	None
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For more detailed information and availability in your region, visit our web site: www.poynting.tech

Contact Poynting

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Landmarks Avenue,
Samrand, 0157
South Africa

Phone: +27 (0) 12 657 0050

E-mail: sales@poynting.co.za

Mechanical Specifications

Product Dimensions (L x W x D):	2050 mm x 140 mm x 140 mm
Packaged Dimensions:	2100 mm x 150 mm x 190 mm
Weight:	5.1 kg
Packaged Weight:	6.02 kg
Radome Material:	PVC
Radome Colour:	429C RAL 7038

Product Box Contents

Antenna:	A-HELI-0008
Mounting Bracket:	Four eyebolts for ceiling mount

The connector is factory mounted to the antenna



Certification Approvals and Standards

Flammability rating:	UL 94-V0 EN 13823
Water Ingress Protection Ratio/Standard:	IP 65 (NEMA 4X)
Impact resistance:	IK 08
Salt Spray:	MIL-STD 810F /ASTM B117
Product Safety:	Complies with UL, CE, EN, CSA and IEC standards

