



Bi-directional Tunnel Antenna

Operating Frequency - 2.4-2.5 GHz

Product code: A-HELI-0008



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

Application:

- 2.4-2.5 GHz Wireless applications in tunnels
- Ideal for the mining environment



Specifications:

Product Code:

A-HELI-0008

N type (f) connector

Electrical:

Gain (max)	14 dBi (+-0.5 dB)
Gain (min over the band)	13 dBi (+-0.5 dB)
Frequency	2400-2500 MHz
VSWR	< 2.0:1
Feed power handling	10 W
3 dB beamwidth	18° (± 2°)
Front to back (F/B ratio)	n/a
Nominal input impedance	50 Ohm
Polarisation	Circular

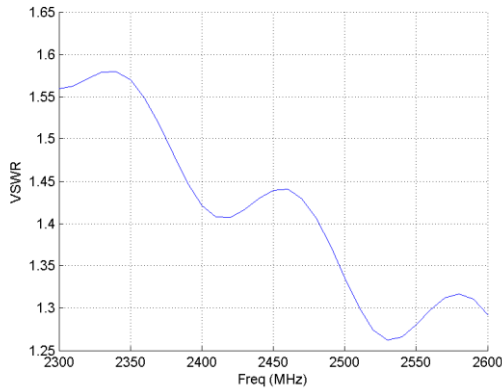
Environmental:

Temperature Range	- 20° C to +70° C
Shock	20G at 10 msec
Thermal Shock	- 20° C to +70° C : 10 cycles
Water Ingress Rating	IP65 (NEMA 4X)

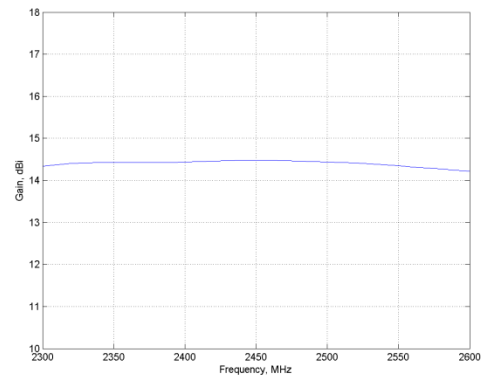
Mechanical:

Dimensions (l x w x d)	2070 x 150 x 120 mm
Weight	5.1 kg
Mounting	Four eyebolts for ceiling mount

VSWR and Gain Pattern:



VSWR



Gain

Radiation Pattern

