

# Medium Gain TUNNEL Antenna

2.4-2.5 GHz

**Product Code:** A-HELI-0004

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 antenna in the picture is painted grey; however the colour can be changed according to the user's requirement.

The hardy construction of this antenna makes it ideal for the mining environment. A-HELI-0004 is a uni-directional antenna that is only 405mm in length and has a gain of about 15 dBi.

This antenna gives you a low cost network infrastructure for current voice and data needs. Future proof since WiFi means low cost devices and well known access for man and machine.



## WHERE DO YOU USE THIS?

~~LTE~~

~~3G~~

~~GSM~~

~~WIMAX~~

WIFI

~~GPRS~~

~~EDGE~~

~~HSPA~~

~~CDMA2000~~

~~EVDO~~

**ELECTRICAL:**

Frequency in MHz:	2400-2500
Gain (Max):	15 dBi
VSWR:	< 2.0:1
Feed Power Handling:	10 W
E-Plane 3 dB Beamwidth:	40° (± 5°)
H-Plane 3 dB Beamwidth:	360°
Front to Back:	20 dB (± 3 dB)
Nominal Input Impedance:	50 Ohm
Polarisation:	Circular

**MECHANICAL:**

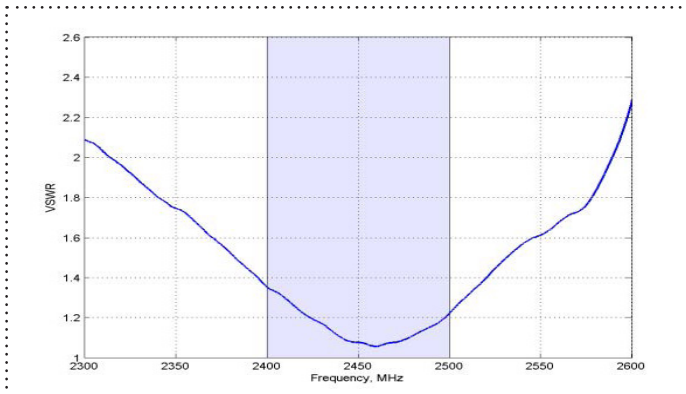
Dimensions (L x W x D):	40,5 cm x 11 cm x 13cm
Packaged Dimensions:	45 cm x 16 cm x 16 cm
Weight:	1.25 kg
Packaged Weight:	1.26 kg

**ENVIRONMENTAL:**

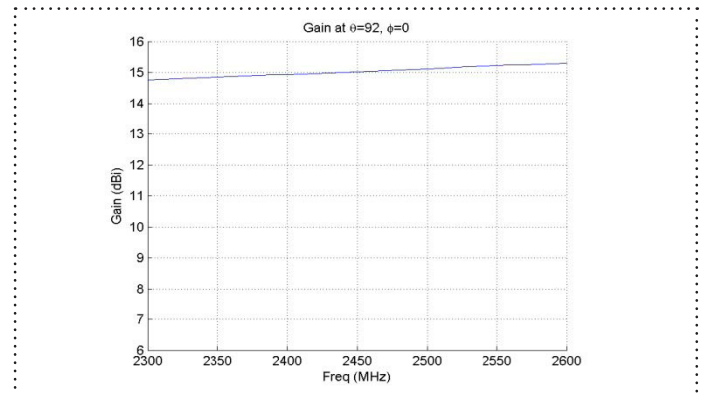
Wind Survival:	—
Temperature Range (Operating):	- 20° C to +70° C
Thermal Shock:	- 20° C to +70° C : 10 cycles
Water Ingress Rating:	IP65 (NEMA 4X)

**INCLUDED WITH PRODUCT:**

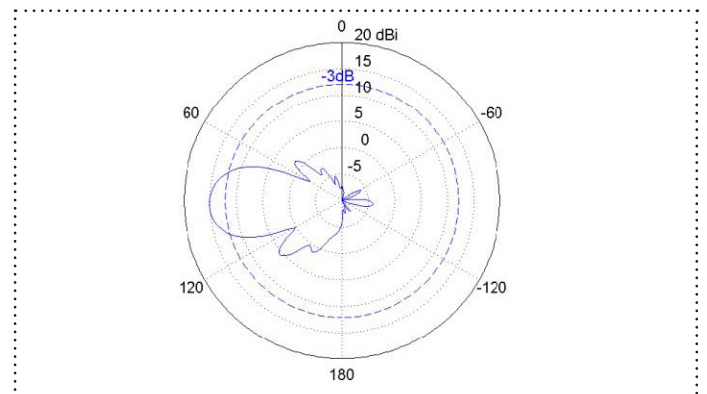
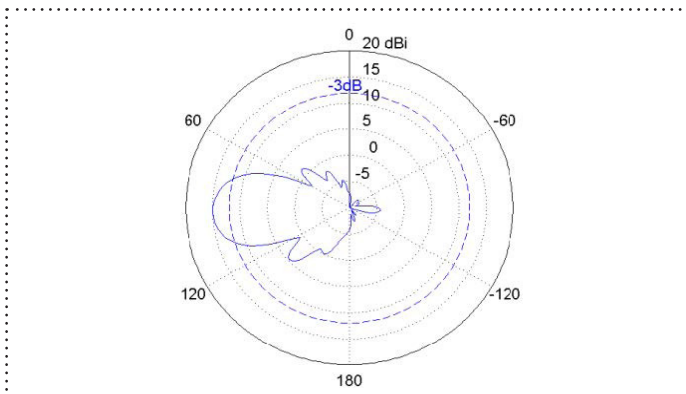
Mounting Bracket:	Two eyebolts for ceiling mount
Cable Length:	—
Connector:	N(f)

**PLOTS:**

VSWR



Gain



Pattern at 2400 MHz and 2500 MHz