

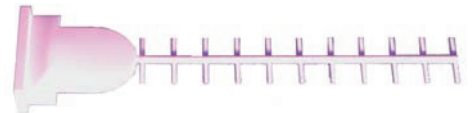
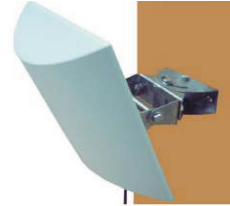
# D-Link

# Quick Installation Guide

These products can be compliant with D-Link Air, Air Plus products to make your wireless LAN have better linking quality.

## ANT24 Series

D-Link Fast Antenna Kits



**Air AirPlus AirXpert™ AirPremier™**

# 1

## D-Link Antenna-kit Installation Guide

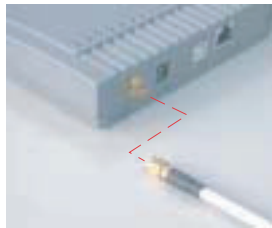
### Step 1

Remove the default antenna.

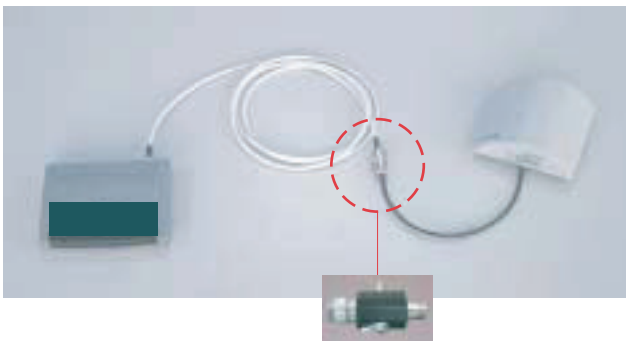


### Step 2

Connect the extension cable onto the external connector on device.



### Step 3



Install the surge protector as recommended position when you do not purchase the low loss cables ( ANT24-CB03N, ANT24-CB06N and ANT24-09N...)

### Step 4

Option: Ultra low-loss cable HDF-400  
Length options: 3M/6M/9M



Install the surge protector as recommended position ,near the device side, when you have the low loss cables (ANT24-CB03N, ANT24-CB06N and ANT24-CB09N ...)

### Step 5

Use water-proof tape to wrap around both connectors tightly, as the pictures showed below



### CAUTION!!

Please always put the surge protector indoors and near the device side, if you cannot keep it indoors, use the tapes to wrap all the connectors as pictures showed below.



When install the surge protector between cables, wrap the connectors as well. The lightning protection adaptor for grounding the antenna.



Option: Surge protector  
Connectors: N-plug to N-jack

With Surge protector (ANT24-SP) adaptor on an outdoor serial is attached to the lightning protection system (ground) of the building. All devices downstream are then protected by the ground from lightning strikes. It can protect your sensitive WLAN equipments from high voltage surges caused by discharge and transients at the antennas. It will be integrated in the cabling system between the antenna and the coax-cable and must have direct ground contact.



**D-Link WLAN Antenna-kit**  
**Extended range differentiation for FCC/ CE regulated regions**  
 Indoor installation for OUTDOOR Inter-building link



**CE ETSI EN 300 328 regulated regions (European countries)**

Indoor antenna application for Outdoor inter-building transmission based on ( ETSI EN 300 328 ), EIRP (Emitted Isotropic Radiated Power) limited within **20dB**. Therefore, the extended range might be shorter than FCC-regulated antennas.



Indoor application for outdoor inter-building linking:

Antenna-kits extended range based on ETSI EN 300 328: 750m



Indoor application for outdoor inter-building linking:

Antenna-kits extended range based on ETSI EN 300 328: 1000m



**CE ETSI  
 EN 300 328  
 Regulated regions**

**FCC regulated regions (US, Canada...)**

Using the same antenna-kit in FCC-regulated regions, the extended range might be **LONGER** than CE-regulated antennas due to **HIGHER output power allowance !** ( FCC Regulations: point-to-multipoint EIRP 36dB max. p-t-p EIRP allows 48dBm max.)



Indoor application for outdoor inter-building linking:

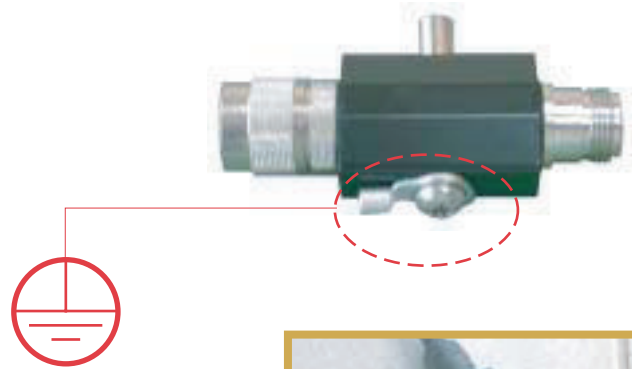
Antenna-kits extended range based on : 1800m



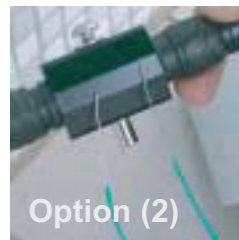
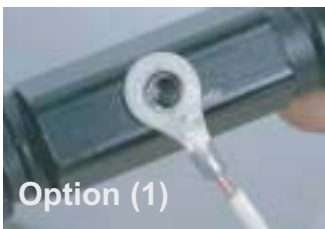
**FCC  
 regulated regions**

# 1

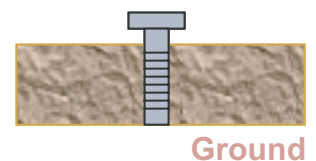
## ANT24-SP Surge protector Installation guide for outdoor antenna-kit



**Step 1**  
loosen the screw from the surge protector.



**Step 2**  
get a normal conductive copper wire with 2 sides stripped long enough to be conductive, these wires can lead high voltage surges into the grounding.



**Step 3**  
find a conductive material nearby the antenna installation sites, connect another end of the wire into position, there are several options:

- (1) Use a long screw to stick into the ground tightly, connect another wire onto.
- (2) fix or solder another end of wire onto a steel material/ bar under steel construction, such as wall for buildings, railings or other conductive materials which set up from the ground.

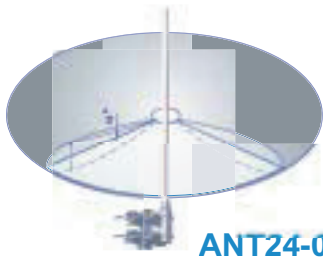
**Remark:**

- (1) for the ground screw you use, we suggest the longer (deeper into ground) the better performance it has.
- (2) please use a copper wire with diameter at least from 2.0mm, the thicker the diameter, the higher voltage it can sustain.

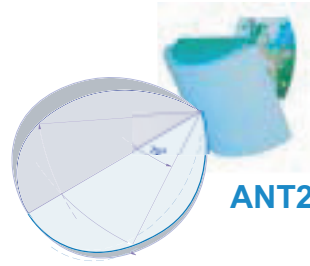




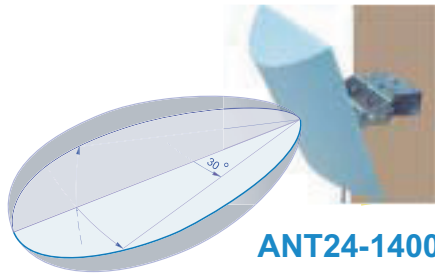
## Optional ultra low attenuation cable for ANT24-Outdoor high gain series



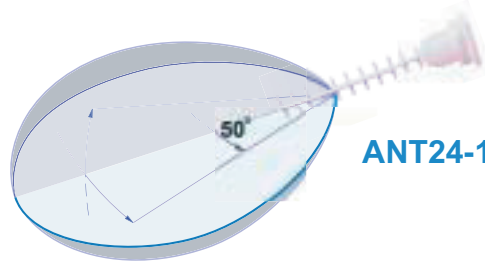
ANT24-0800



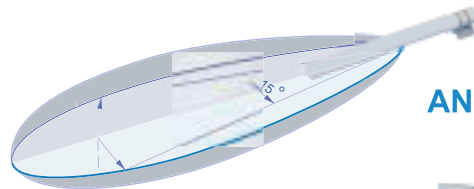
ANT24-0801



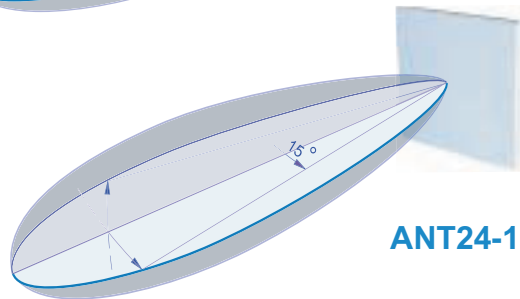
ANT24-1400



ANT24-1201



ANT24-1801



ANT24-1800

We have the following length options to create flexible antenna deployment:



Default extension cables

- P/N: ANT24-CB03N: 3meter @ 0.78dB attenuation
- P/N: ANT24-CB06N: 6meter @ 1.56dB attenuation
- P/N: ANT24-CB09N: 9meter @ 2.34dB attenuation

### NOTE:

The longer cable you use, the more attenuation it causes, therefore, the extended range might be shorten than a normal link with default extension cables.

