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Overview

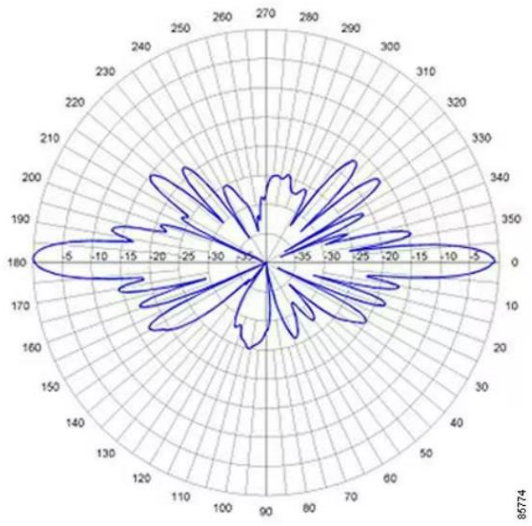
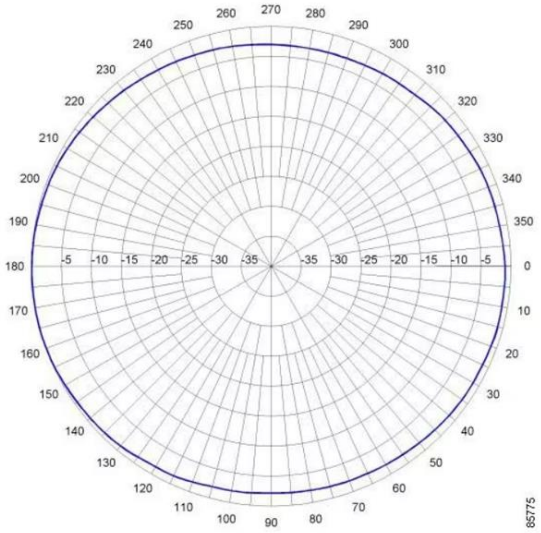
2.4 GHz,12 dBi Omni Mast Mt. Antenna w/RP-TNC Connector

Quick Specification

Antenna type	Vertical colinear array, Omnidirectional
Operating frequency range	2400-2500 MHz
Nominal input impedance	50 Ohms
Dimensions	42 x 1.5 in (106 x 3.8 cm)
Weight	3 lb (1.36 kg)
Connector type	RP-TNC plug
Peak gain	12 dBi

Product Details:

The Front Panel:

E-Plane Pattern	H-Plane Pattern
	

System Requirements

This antenna is designed for use with Cisco Aironet access points and bridges but can be used with any 2.4-GHz Cisco Aironet radio device that uses a reverse-polarity threaded naval connector (RP-TNC).

Installing Notes

Choosing a Mounting Location

The antenna is designed to create an omni-directional broadcast pattern. To achieve this pattern, the antenna should be mounted clear of any obstructions to the sides of the radiating element. If the mounting location is on the side of a building or tower, the antenna pattern will be blocked on the building or tower side.

Tools and Equipment Required

To install the antenna, you will need the following tools and equipment.

• A 7/16 in. (11 mm) open end or combination wrench

• A 1/2 in. (13 mm) open end or combination wrench

The following sections contain procedures for installing the antenna. Choose the procedure that applies to your situation. Use Figure 1 as a guide.

Mounting the Antenna

The antenna is provided with a mounting kit. This kit allows you to mount the antenna to masts up to three inches in diameter. The antenna is vertically polarized. Since the antenna has vertical gain, it is very important to mount the antenna in a vertical (not leaning) position for optimal performance.

Follow these steps to mount the antenna to a mast.

Step 1 Position the sandcast bracket on the mast.

Step 2 Secure the sandcast bracket to the mast using two 5/16-18 U-bolts, split lock washers, and hex nuts.

Step 3 Use a 1/2 in. (13 mm) wrench to tighten each hex nut to full compression of the split lock washers.

Step 4 Slide the antenna in the sandcast bracket and align it so that the 1/4-20 hex bolts fit into the grooves on the antenna base.

Step 5 Use a 7/16 in. (11 mm) wrench to tighten the hex bolts until they secure the antenna to the sandcast bracket. Do not overtighten.

Step 6 Use a 7/16 in. (11 mm) wrench to tighten the 1/4-20 jam nuts. Do not overtighten.

Step 7 Connect the antenna's pigtail coaxial cable to the transmission line.

Suggested Cable

Specifications for Cisco Aironet Low-Loss Antenna Cable

Feature	AIR-CAB020LL-R	AIR-CAB050LL-R	AIR-CAB100ULL-R	AOR-CAB150ULL-R
Cable length	20 ft (6 m)	50 ft (15 m)	100 ft (30 m)	150 ft (46 m)
Transmission loss	1.3 dB	3.4 dB	4.4 dB	6.6 dB

Get more information:

Do you have any question about the AIR-ANT24120?

Contact us now via e-mail: info@hi-network.com

Specific Data Sheet:

Antenna type	Vertical colinear array, Omnidirectional
Operating frequency range	2400-2500 MHz
Nominal input impedance	50 ohms
Nominal VSWR	1.5:1
Peak gain	12 dBi
Polarization	Linear, vertical
Dimensions	42 x 1.5 in (106 x 3.8 cm)
Weight	3 lb (1.36 kg)
Connector type	RP-TNC plug
Coax type	RG-213
Environment	Outdoor

Operating temperature range	-40°F to 158°F (-40°C to 70°C)
Wind rating	125 mph (201 kmh)

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