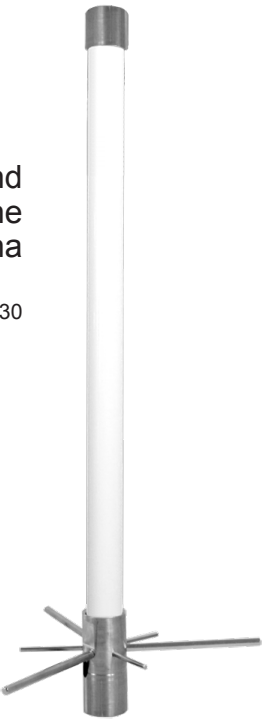
Antenna Installation Guide

Multi-Band Marine Antenna

PART# 301130

Coupler Included



Features:

- High-performance, omni-directional antennna
- Built-in radial ground plane
- Coupler included for different mounting options
- Fiberglass-encased and weatherproof
- Fits standard 1-inch x 14 threaded mount
- For mobile or fixed locations

Wilson® Electronics, Inc.

Antenna Adapter Required – Sold Separately

A phone/data card-specific Antenna Adapter is required when connecting the antenna directly to a cell phone or laptop data card. To identify the correct adapter, see Wilson Electronics Adapter Guide at *www.WilsonElectronics.com* or call Technical Support at 866-294-1660.

Adapter type may vary depending on your cell phone or laptop data card.

Package Contents Include

1 - Multi-Band Marine Antenna
1 - mounting coupler
6 - radials (3 short, 3 long)
1 - thread-locker liquid
1 - plastic cable wrench

RF Safety Warning: The outside antenna must be installed with a separation of at least 16 inches from any of the vessel's occupants or nearby persons and must not be located or operating in conjunction with any other antenna or signal booster.

Thank You For Purchasing a Wilson Electronics Antenna.

Please read all instructions before installing and check the parts supplied against those listed in this guide. Wilson Electronics weatherproof fiberglass-encased antenna is omni-directional and ideal for many marine applications including small boats, cabin cruisers and yachts as well as RVs, offices and homes. It has the highest gain allowed for a mobile antenna and has a built-in radial ground plane for maximum performance.

Our innovative design results in high efficiency and low signal loss, which means more signal to your cellular device. This performance-based marine antenna is backed by Wilson Electronics 30-day money-back guarantee and 1-year warranty.

Carefully Determine Your Mounting Location

The Wilson Electronics Marine Antenna should be mounted as high as possible with no obstructions. Marine antennas work on a "line-of-sight" basis, so the higher your antenna is, the farther it can receive a signal. This gives you a greater range for your cellular communications.

There is a compromise between installing the antenna as high as possible and keeping the cable run short to reduce signal loss. For cable runs under 20 feet (recommended), Wilson Electronics has various RG-58 cable lengths and connectors available (sold separately).

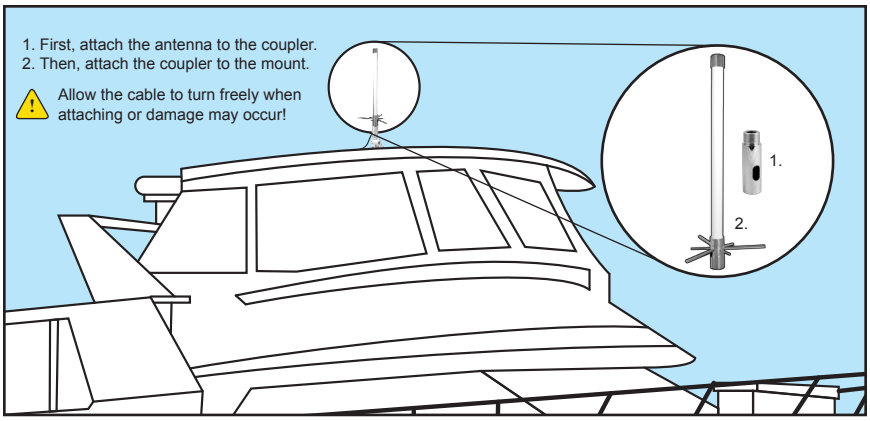
If cable length over 20 feet is needed, we recommend increasing the cable size to Wilson 400 or low loss cable to reduce signal loss. Make sure your mounting location is as far away as possible from other antennas and upright objects like masts. Be careful not to kink or crush the antenna cable or bend it tightly around obstructions during installation. This can lead to poor performance and signal loss.

For assistance with your installation, call Wilson Electronics Technical Support toll free at 866-294-1660 Monday through Friday between 7:00 a.m. and 6:00 p.m. MST, or visit *www.WilsonElectronics.com*. Wilson Electronics is closed Saturday, Sunday and holidays.

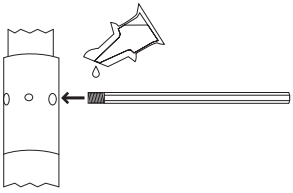
Vertical Placement

Vertical placement is very important for proper operation. There may be a desire to angle the antenna backwards for aesthetic reasons. However, not having the antenna mounted vertically decreases its performance.

A general "rule of thumb" for placement is to install all antennas at least an antenna's length away from other antennas. If there is not enough separation between antennas



(especially when using a wireless signal booster), then oscillation (feedback) may occur causing the signal booster to power down.

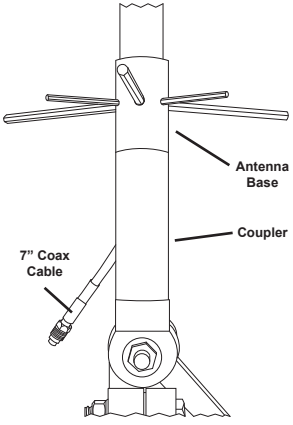


Assembling and Attaching the Antenna

Screw the six radials into the holes near the base of the antenna (see diagram). ***Note:*** *The hole size is different between the short and long radials.* Tighten the radials snugly with a wrench. DO NOT over tighten. The included liquid thread lock must be used to ensure the radials do not vibrate loose.

Use the 1" 14-thread coupler (included) to attach the antenna to any standard marine mounting bracket. The coupler provides a feed through for routing the connecting cable, which will run to your cellular device, or Wilson Electronics signal booster.

Once the antenna is properly attached to the mounting bracket, attach the connecting cable (sold separately) to the antenna's 7" pigtail cable and route it to the location of your cellular device. Use the appropriate adapter for your cellular device (sold separately). If you are using a Wilson Electronics signal booster, carefully follow the instructions included with the model purchased.



Warning: Damage will occur to the cable when the antenna is attached to the coupler if the cable is not allowed to turn freely.

30-Day Money-Back Guarantee

All Wilson Electronics products are protected by Wilson Electronics 30-day money-back guarantee. If for any reason the performance of any product is not acceptable, simply return the product directly to the reseller with a dated proof of purchase.

1-Year Warranty

Wilson Electronics Multi-Band Marine Antenna is warranted for one (1) year against defects in workmanship and/or materials. Warranty cases may be resolved by returning the product directly to the reseller with a dated proof of purchase.

Antennas may also be returned directly to the manufacturer at the consumer's expense, with a dated proof of purchase and a Returned Material Authorization (RMA) number supplied by Wilson Electronics. Wilson Electronics shall, at its option, either repair or replace the product. Wilson Electronics will pay for delivery of the repaired or replaced product back to the original consumer.

This warranty does not apply to any antennas determined by Wilson Electronics to have been subjected to misuse, abuse, neglect, or mishandling that alters or damages physical or electronic properties.

RMA numbers may be obtained by phoning Technical Support at 866-294-1660 or e-mail tech@wilsonelectronics.com or visit *www.WilsonElectronics.com*.

Antenna Specifications

Part Number	301130
Frequency Range	700-800 MHz / 824-894 MHz / 880-960 MHz / 1710-1880 MHz / 1850-1990 MHz
Impedance	50 ohms
Antenna Gain	3.4 dBi 700-800 MHz / 4.1 dBi 824-894 MHz / 3.5 dBi 880-960 MHz / 3.1 dBi 1710-1880 MHz / 5.1 dBi 1850-1990 MHz
Radiation	Omni
Polarization	Vertical
Ground Plane	Built-in Ground Plane
Connector	FME Female
Material	Whip - Stainless Steel / Casing - Fiberglass
Coax Cable	RG58 - 7 inches
Height	21 inches / 53.3 cm
Mount	Standard 1-inch x 14 thread

Wilson® Electronics, Inc.

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For additional Technical Support visit www.WilsonElectronics.com
or email at: tech@wilsonelectronics.com
Phone: 866-294-1660 Local: 435-673-5021 Fax: 435-656-2432
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