

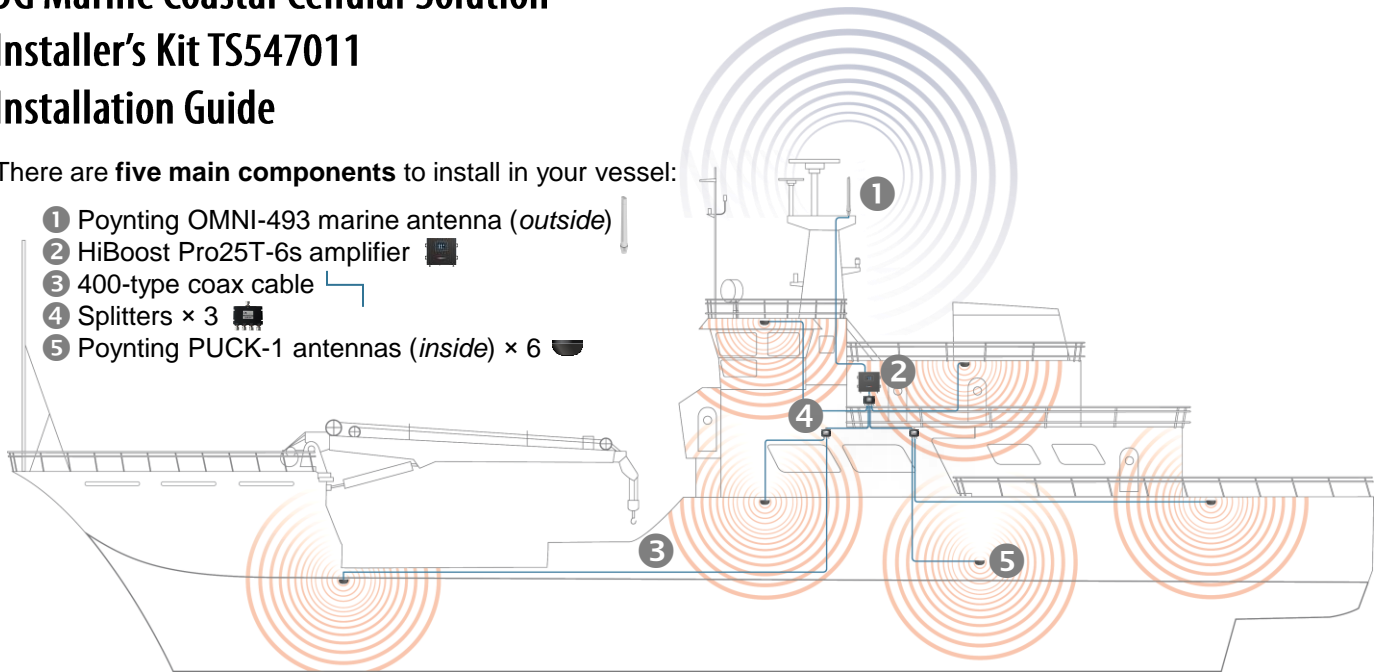
5G Marine Coastal Cellular Solution

Installer's Kit TS547011

Installation Guide

There are **five main components** to install in your vessel:

- 1 Poynting OMNI-493 marine antenna (*outside*)
- 2 HiBoost Pro25T-6s amplifier
- 3 400-type coax cable
- 4 Splitters × 3
- 5 Poynting PUCK-1 antennas (*inside*) × 6



1 Poynting OMNI-493 marine antenna

(See the OMNI-493 user guide for manufacturer's installation instructions.)

For best performance, the marine antenna should be mounted as high as possible outside your vessel and have the shortest run of coax cable possible to the cell signal booster.

Attach the large N-male connector on the *TS-195 coax jumper cable* to the threaded connector on the bottom of the antenna.

Punch out the exit hole on the side of the *marine adapter bracket* and pull the small SMA-male connector on the other end of the jumper cable through the hole. Secure the bracket to the bottom of the antenna. Attach the bracket to a 1"×14-thread marine mount (like the Shakespeare 4187, 4190, 4365, or 4715).

Use an *SMA-female/N-female adapter* to connect the jumper cable to a run of 400-type coax cable.

Run the 400 coax cable to the booster, securing the cable to the mast, tower, or hull. (See step 3.) Do not pinch, kink, loop, or coil the cable. Connect the cable to the booster's outdoor port.



2 HiBoost Pro25T-6s amplifier

The amplifier (booster) must be placed where it has access to a 120-volt AC power outlet. Attach it securely in an upright position using the mounting flanges on each corner. (See pp. 8–13 of the HiBoost Pro25T-6s installation guide for power-up instructions.)





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3 400-type coax cable

This system includes a 500' (152.4 m) spool of TS-400 coaxial cable.

Cut the runs of cable to the exact lengths you need to connect the booster, antennas, and splitters. **Always use the shortest run of cable possible to complete a connection.** Do not pinch, kink, loop, or coil the cables.

You'll need a *coax cable prep tool* →  and a *ratchet crimping tool* →  to prepare and terminate the cable ends.

If you don't have these tools, they're available at powerfulsignal.com/tools

Terminate each cable with a *Top Signal N-male EZ-crimp connector*. →  Instructions for attaching EZ-crimp connectors are available at powerfulsignal.com/ez-crimp



4 Splitters

This system includes one *4-way splitter* and two *2-way splitters*. These can be combined to connect between two and six indoor antennas to the HiBoost Pro25T-6s booster. (See the diagram on page one for an example of combining splitters.)

Splitters have N-female connectors; use 400 coax jumper cables with N-male connectors to connect them to the booster, to the inside antennas, or to other splitters. Jumper cables can be of any length; a preterminated 2' (61 cm) cable is included with your system for use as a jumper from the booster to the first splitter, if that suits your installation needs.

PLEASE NOTE: Splitting signal introduces attenuation (*signal loss*) into the connection between the booster and the antenna(s). For example, splitting into *two runs* sends *half* of the power from the booster to each antenna, and splitting into *four runs* sends *one quarter* of the power to each antenna, while an antenna connected to the booster through *two splitters* will receive *one eighth* of the booster's power (*4-way × 2-way split*). Because of this, compartments in your vessel that are *larger* and ones are *farther away* from the booster should be connected to the booster through *one splitter*, if possible, so they'll receive more signal from the booster. Compartments that are *smaller* and *closer* to the booster can be connected through *two inline splitters* (*booster → cable → splitter 1 → cable → splitter 2 → cable → antenna*).

All ports on a splitter must be terminated by a cable. When you design your cable layout, combine the splitters so that there are *no open ports* remaining and every port is connected to an antenna or another splitter.




5 Poynting PUCK-1 antennas

(See the PUCK-1 user guide for manufacturer's installation instructions.)

This system includes 6 low-profile "puck"-style omnidirectional antennas that broadcast amplified signal from the amplifier in a spherical pattern.

The PUCK-1 antenna mounts to ceilings with the included magnetic base, 3M® adhesive pad, pole- or wall-mount bracket, or spigot mounts. For the best distribution of signal, mount each antenna in the center of the compartment or space where you need cellular coverage.

The PUCK-1 has 6.6' (2 m) of flexible RTK031 coax cable with a small SMA-male connector that can be easily fed through openings between decks. Use an *SMA-female/N-female adapter* →  to connect the antenna's cable to a run of 400 coax cable.

