

Installation Guide For Original Finishline Fencing

4mm Spool

About Finishline

Thank you for choosing Finishline Fencing for the containment of your horses and/or livestock! We are confident that you will be satisfied like the thousands of others who are using Finishline on their farms worldwide. Finishline has 45 years of tested durability and strength, while delivering a beautiful fence that will add value to your property.

Finishline is as strong as a wire fence with 1,250 lbs. of tensile strength per strand. It is the only product of its kind to be manufactured with vital UV inhibitors throughout. This UV protection maintains the products strength, flexibility, and stunning appearance. Finishline is lightweight and easy to install. A 2,000-foot spool of Finishline weighs only 23 lbs. and has a silk like feel that can be hand tensioned by applying 150 lbs. of pull. This simple installation is a do-it-yourselfers dream!

Finishline can withstand temperatures from -40 to 128 degrees Fahrenheit without losing its tension. No more wasted time maintaining the proper tension and viability of your fences.

Finishline contains no wire, which delivers several great advantages; it is lightweight thus easy to install, requires no special equipment for installation and in some cases can be tensioned by hand. Finishline flexes upon harsh impact from horses and livestock which can reduce the risk of injury.

As all horse/livestock owners know, no containment system is fool proof. We recommend the use of an electric line with all Finishline installations. Please continue to look through our installation guide so you can properly install your Finishline and know that your livestock will be safely contained behind the best!

Pre-Installation

The prerequisite to a successful Finishline Fence Installation is advanced planning, combined with proper tools and quality materials. Before you begin, walk the proposed layout to check for any obstructions that might cause you to have to modify your layout. Modifying your layout is easier in the planning stage than in the middle of installation.

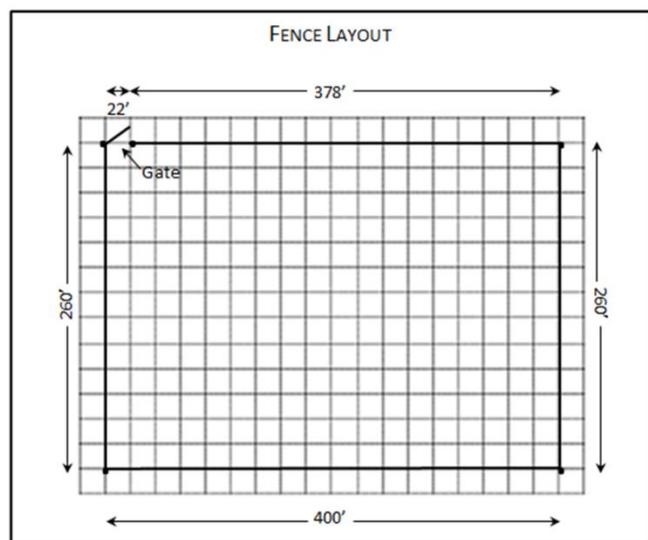


Illustration 1.1

When you feel confident that your proposed layout will work, draw a measured, or to scale, layout of your fence installation. This fence layout will be a valuable planning aid and will also help establish a materials list. Please see *Illustration 1.1* to the left.

Note that the space between posts and the number of strands installed is determined by the intended use of the enclosure; pasture, feed lot, corral, etc. and what type of animals and how many animals will be enclosed.

When you have completed your fence layout, contact your local utility company and schedule an inspection to determine if and where utility lines are located. Typically, in

most localities, a free "One Call" program is available, and response is in less than three days. THIS IS VITAL BEFORE DIGGING THE FIRST POST HOLE OR DRIVING THE FIRST POST.

Following all safety requirements and guidelines is as important as any component of your plan. This includes, but is not limited to; eye protection, gloves, and steel toed work boots. Also, use ear protection when operating power augers or post drivers.

Recommended Number of Strands and Spacing

When installing Finishline Fencing, acceptable post spacing is 8 to 12 feet apart. **Finishline recommends using at least one strand of electric when installing your fence line. If you choose not to use electric, please do so with caution.** Size of the herd, types of animals being contained, animal personalities, and beauty will influence the numbers of strands needed to contain your animals. Please see Electrifying the Fence on page 5 for more details.

Equine/Donkey- Horse owners for years have used Finishline for safe containment of their horses. When containing horses, it is recommended to use 4 to 5 strands of Finishline Fencing and to space them 7 to 12 inches apart. The top strand should be a minimum of 52 to 54 inches from the ground and 2 to 4 inches from the top of the post. The bottom strand is typically 14 to 18 inches off the ground. Horses which have a tendency to rub fencing continually or "play" with fencing can lead to problems for the fence and the horse. In cases of frequent horse contact with fencing, the electric line should help train animals off the fence. Please see *Illustration 2.1* for installation ideas.

Stallions and Jumpers- For extra fence height, use 6 to 7 strands of Finishline Fencing.

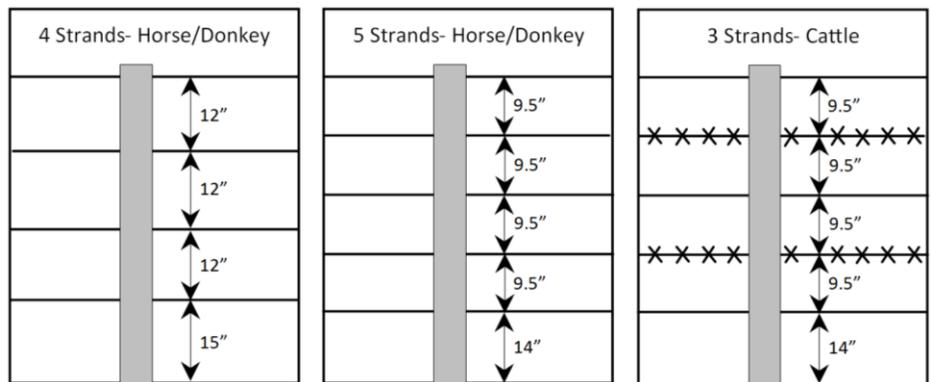


Illustration 2.1

Cattle- Use 3 lines of Finishline with two lines of barbed or electric between strands. Finishline is an excellent sight line for large cattle farms. Please see *Illustration 2.1* above for an example.

Other Livestock- For use with other animals such as goats, sheep and minis, place Finishline closer together for optimum containment and use 2 to 3 strands of electric.

Deer- Finishline is an excellent option when your property has problematic deer. Higher installation and closer spacing helps to protect your land from being intruded on by deer. In most cases deer are reported to bounce off the fence without breaking it or clears the Finishline fence line with minimal damage.

Please Note:

The above examples are suggestions only.

Fencing of all livestock comes with risk. Please use your own judgement and research for your final installation. It is our recommendation to use electric with all Finishline installations to provide the safest containment system. If you choose not to use electric, please do so with caution.

Attaching Finishline to your Posts

Finishline can be used with any type of post system. The two most common types are wood posts and t-posts. See below for the different ways to attach Finishline to your wood and t-posts. All choices work equally as well.

Wood Posts - There are four main options to attach Finishline Fence to wood posts: insulators, drilling, and stapling. Use a template to mark locations for your post attachment placement.

1- Wood post insulators

To use wood post insulators, simply attach to wood post with galvanized roofing nails. Once attached to the posts, run the Finishline through the holes to keep it aligned.

2- Ring insulators

To install ring insulators use a **Ring Insulator Drill Tool** and attach to your drill. A pilot hole may be needed depending on your post.

3- Drilling through the posts

Finishline Fencing can be installed by drilling through line posts and running the Finishline Fencing through holes up to the end post where it will be anchored. If through-the-post installation is selected, a wooden template (2" x 2" x 6') with holes pre-drilled at the selected spacing will allow fast hole alignment and allow the horse fence to follow the contours of the land.

To drill holes, use a battery-operated or portable generator-operated electric drill with a 5/16-inch or 3/8-inch wood drill bit. For large diameter posts, a 5/16-inch bell hanger installer drill bit permits drilling through the thickest posts.

NOTE: The use of through-the-post installation carries with it a slight risk of abrasion. If this is a concern, you may line the holes with protective tubing. Abrasion can be reduced by using an electrified wire with Finishline Fencing, as this will help prevent animals from pushing on the fence.

4- Staples (Insulated or standard U)

When installing with the Staples, care should be taken to prevent crushing Finishline. Using installation staples will prevent this from happening and permits Finishline to slide freely without wear. Please see *Illustration 3.1* for an example.

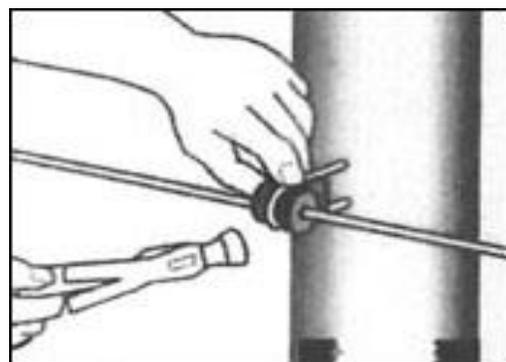


Illustration 3.1

T-Posts – We carry four accessories that be used with T-Posts. Two that will attach Finishline to the post and two toppers to help protect the top of the metal post.

1- Standard T-Post Insulators

Available in white or black. 25 to a bag.

2- LockJawz

Provide added flexibility when placing the insulator to the T-Post. Can be attached at any angle. Available in white or black. 25 to a bag.

3- T-Post Vinyl Safety Cap

Lightweight and helps to provide more visibility and a layer of protection from the metal post. Available in white. 25 to a bag.

4- T-Post Safety Topper

Larger molded topper which provides added visibility and the ability to hold electric line and has a higher layer of protection from the metal post. Available in white or black. 10 to a bag.

Installing Your Finishline

Start Post

The three most common ways to begin your Finishline runs are as follows:

1- Finishline Bayco Knot

Give yourself approximately 3 feet of Finishline to start the knot. Wrap around your start post 3 times, wrap the short end up the run line 3 times then wrap back 3 times. Once you do this, insert and wrap the Finishline around the original loop 2-3 times to secure the line. Please see *Illustration 4.1*.

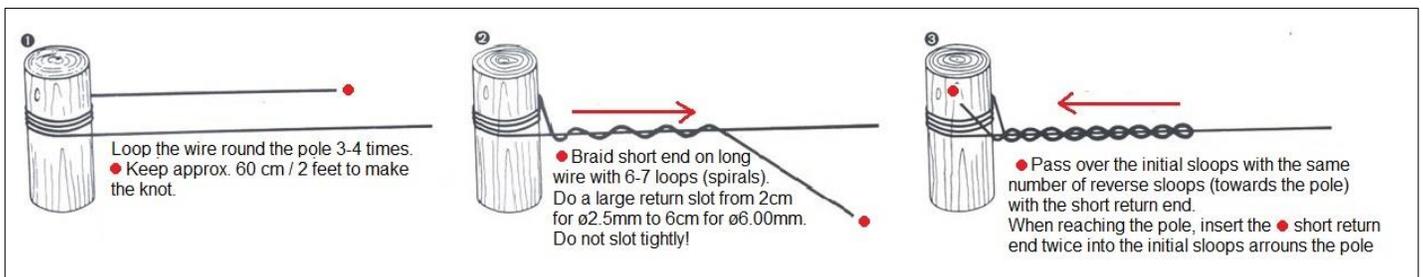


Illustration 4.1

2- One-Way Vice – 5/8-inch hole

To start your fencing with a One-Way Vice, drill a 5/8-inch hole in your start post. Begin by threading the Finishline back through the hole while holding the pointed end of the vice at the first post. Insert the line through the vice then insert the vice into the post. Always cut Finishline at an angle when using a vice for easier insertion. Please see *Illustration 5.1* for diagrams on how to tension.

NOTE: It is not necessary to secure the vice to the post.

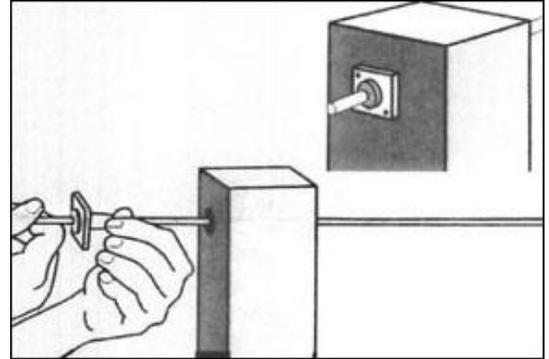


Illustration 5.1

3- GP No. 2 (GP2)– 5/16-inch or 3/8-inch hole

When using a GP2, installation is very similar to the One-Way Vice. Drill through your end post with a 5/16-inch or 3/8-inch drill bit. Begin by threading the Finishline back through the hole and insert the line into the GP2. The GP2 will hold tension on the outside of your post. You then have the option to tack Finishline to your post with a staple, or loop back into GP2. This will allow Finishline to be re-tensioned if needed. Cut Finishline at an angle when using a GP2 for easier line insertion. See *Illustration 5.2* to see how GP2 looks installed.

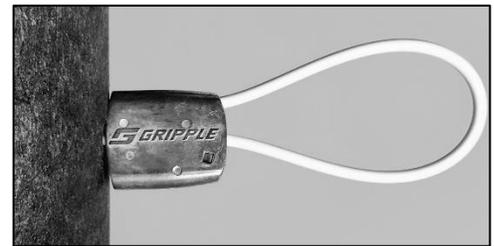


Illustration 5.2

Stretching for Proper Tension at Your End Post

A One-Way Vice or GP2 is inserted into at least one end post and optimally both for each strand of Finishline that is being installed. Thread the Finishline through the vice and pull all slack from the fence run. Once this is done, it is time to tension your fence.

Pull Finishline Fencing from both ends, for proper tension, unless starting with a Finishline Bayco Knot where this would be impossible. Always start at the bottom strand and work your way up to the top strand. Always be sure to leave enough extra fence (6-10 inches) on both ends to attach a strand stretcher or vice grips. On shorter runs, Finishline can be tensioned by hand. Please see *Illustration 5.3* for

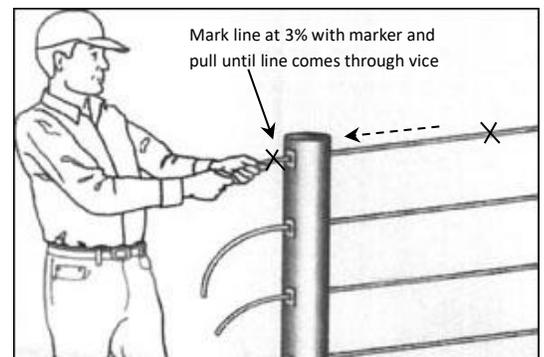


Illustration 5.3

tips on tensioning your Finishline Fence. Keep in mind colder weather does make tensioning more difficult. A Torq Tensioning Tool will make tensioning easier.

Finishline Fencing requires a tension of 3-4% of total strand length. For example, a 400-foot length with a 3% tension is 12 feet (.03 X 400). As a result, you would need to tension your fence twelve feet.

After determining the length needed to tension the fence, measure in from the end post to the predetermined length and mark the fence line with a marker or ribbon. Begin stretching with Torq Tensioner Tool, hand strength, or other fence stretchers. Using a mark on the fence or ribbon will help ensure proper tension is being applied. After tension is reached, cut all but approximately one foot of your fence line. Tack extra Finishline with a staple to the post for future tensioning needs.

Splicing/Repairing- If your job requires more than one spool of Finishline, it will be necessary to splice the spools together. This is also the way you would repair breaks in the Finishline. This can be done with a **Wire Link** or **Gripple**. To use a Wire Link, put both ends of the line that you are splicing into opposing holes at the end of each Wire Link. Always cut Finishline at an angle for easier insertion. Please see *Illustration 6.1* of the Wire Link in use. To use a Gripple, follow arrows on the Gripple putting one strand in the top holes and the other strand through the bottom.

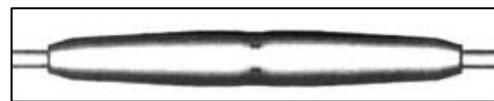


Illustration 6.1

Electrifying the Fence

Only a livestock owner can determine what is best for his/her animals with regards to how much electric current is needed for safe containment. Finishline Fencing cannot carry an electrical charge itself, but a Finishline Fence can be electrified in several ways. We have listed below some common installation techniques.

- 1- Attach a strand of electric on the inside portion of your posts using an insulator.
- 2- Reduce your Finishline Fence Line by one and install an electric line in its place.
- 3- Wrap an electric line around one of your Finishline strands. Using this technique will reduce the amount of labor necessary to upkeep electric. Because Finishline rarely loses tension, you can support your electric line by wrapping it around one of your Finishline strands. This will eliminate the need for you to re-tension your electric strands. A 17-gauge aluminum wire can be easily wrapped several times around a Finishline strand between posts. The electric wire will need to go through an insulator on each post. Finishline acts as an insulator and will not short your line. Please see *Illustration 6.2* for example.



Illustration 6.2

The inclusion of electric is recommended for all Finishline Fencing installations.

Calculating the Number of One-Way Vices/GP No. 2s

In *Illustration 7.1*, there are only 4 end posts where the Finishline is being terminated and tensioned. These are marked by the word "Vice". In the example provided, this person was using 5 strands of Finishline. To determine the number of Vices or GP2s required, multiply the number of posts where you are terminating by the number of Finishline strands you are installing, and this will tell you how many tensioners to purchase. In this case, this person needs to purchase 20 One-Way Vices or GP2s.

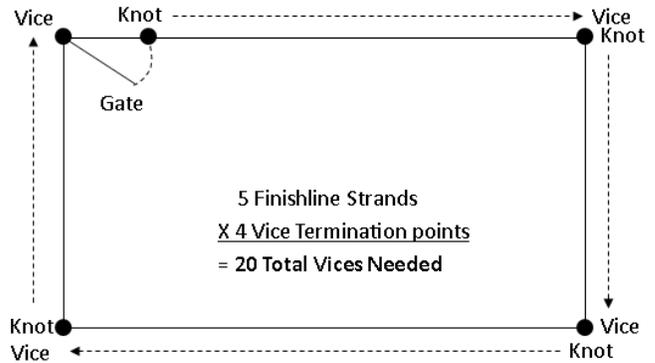


Illustration 7.1

When runs are over 150ft. it is advisable to use Vices or GP2s at both the start and end of each run. In *Illustration 7.1* the knots would be replaced by Vices or GP2s. In the example above, 40 Vices or GP2 would be needed.

In *Illustration 7.2*, there are 5 end posts where the Finishline is being terminated and tensioned. In this example, this person was using 3 strands of Finishline. To determine the number of tensioners required, multiply the number of posts where you are terminating by the number of strands you are installing. This will tell you the number of Vices or GP No 2s to purchase. In this case, this person needs to purchase 15 One-Way Anchor Vices or GP No. 2s.

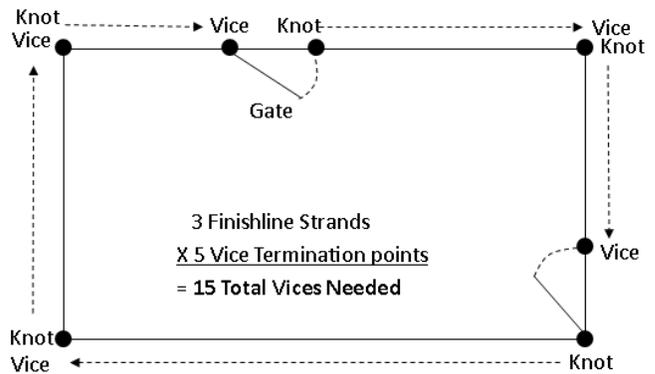


Illustration 7.2

Please Note:

If you need help or advice determining the amount and type of accessories to use, please contact a Finishline advisor. By providing a simple sketch with the length of your runs and approximate location of gates we can quickly provide you with the most optimal and cost-effective plan. 724-625-6100 / info@agliner.com

Additional Information

With time, Finishline Fencing may loosen due to movement of fence posts. Fencing should be checked occasionally. If fence can be pulled towards you easily, it is recommended to tighten the fence by pulling at the One-Way Vice or GP No. 2. If loss of tension is due to loose posts, it is important to locate the loose post and correct.

Helpful hint: If your gate or a start post is less than 100 ft away from the next corner, feel free to wrap around the outside of the post and tension at the next gate or end post.

This will save on the Vices or GP2 needed. It is recommended to put some sort of protective covering around the Finishline Fence to eliminate abrasion. Common household items work well for this such as an old garden hose. Please see *Illustration 8.3* for example.

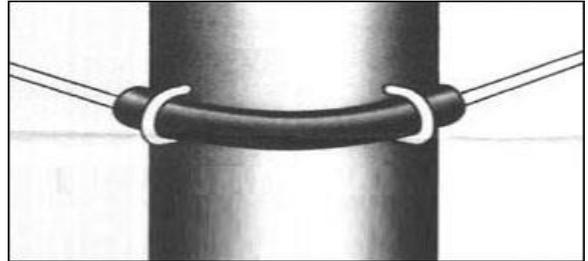


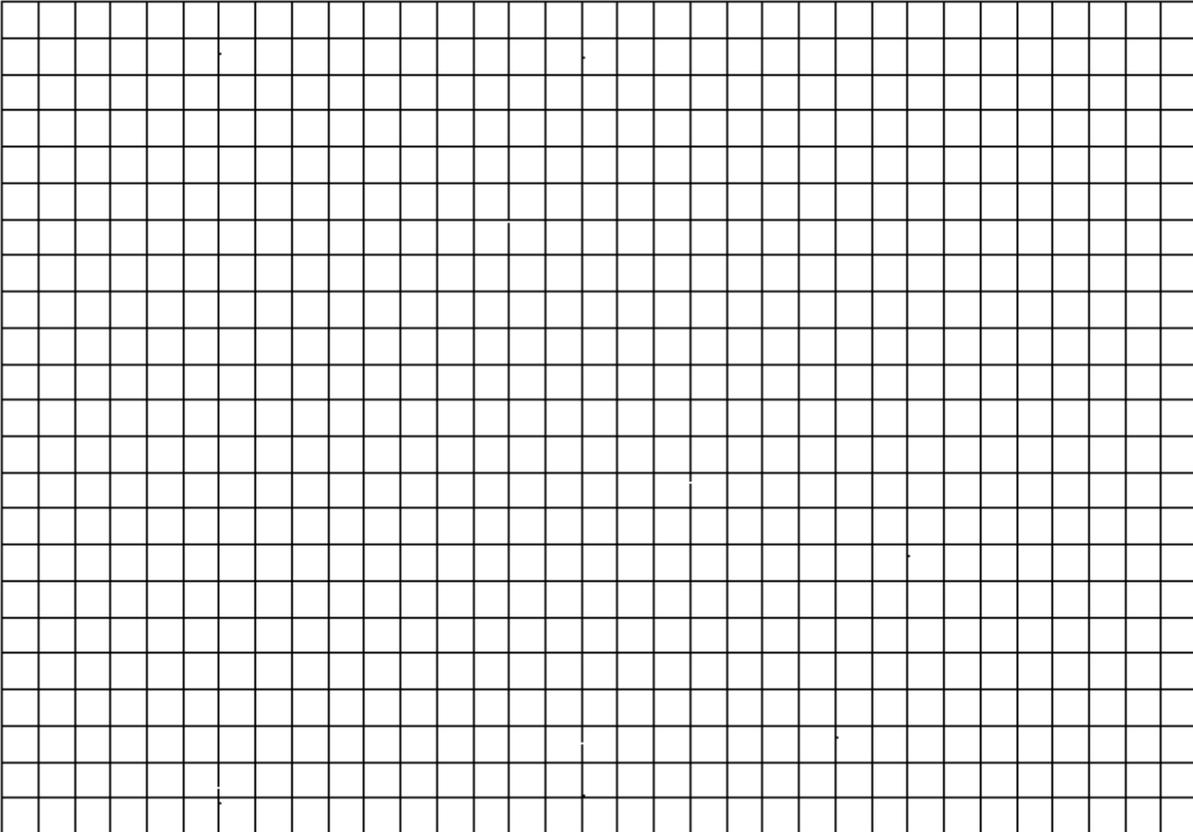
Illustration 8.3

Measuring Guide

Wondering how much Finishline to buy? Use the chart provided to determine the number of spools required for your fencing project.

Finishline is available in 2,000ft and 1,320ft spools

Please use the grid below to sketch your fence layout.



Although the information and recommendations in this Finishline Fencing Installation Guide is presented in good faith and believed to be correct, Ag-Liner, Inc. makes no representations or warranties as to the completeness or accuracy of the information.

Information and product is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Ag-Liner, Inc. be responsible for damages of any nature whatsoever resulting from the use of our products or reliance upon this information.

**If you have any questions, or would like to order:
please call us Toll Free at 877-625-6100 or 724-625-6100
Or order online at FinishlineFence.com**