

Finishline XL

Installation Guide

About Finishline XL

Thank you for choosing Finishline XL to fence in your property. Finishline XL will add beauty and value to your land all while giving you decades of low maintenance performance. Finishline XL has 30 years of tested durability and strength. Join the thousands of others who have used our High-Quality Polymer Fencing on their farms worldwide. We are sure you will be satisfied with your purchase.

Finishline XL is as strong as high tensile wire fencing, offering 1,850 lbs. of tensile strength per strand. It is manufactured with vital UV inhibitors which delivers and maintains the fence lines strength, flexibility, and stunning appearance. Finishline XL is lightweight and easy to install. A 2,000 coil of Finishline XL weighs only 30 lbs., is available in white or black. XL's 5mm diameter offers a visible and stunning perimeter to your land all while offering you a no maintenance fence line that will look and perform as beautifully in decades to come as it does today. This simple installation is a do-it-yourselfers dream!

Finishline XL 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 XL 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. XL flexes upon harsh impact from trees, debris or neighbors and will immediately return to its original tension when the tree or debris is removed from the fence.

Pre-Installation

The prerequisite to a successful Finishline XL 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.

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.

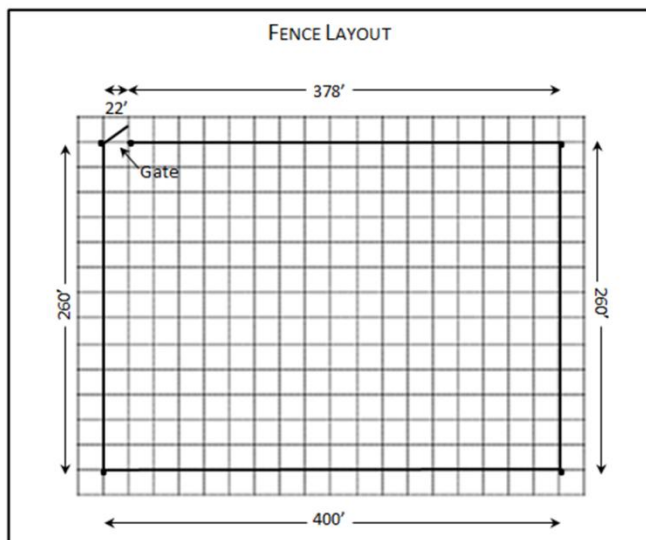


Illustration 1.1

Note that the space between posts and the number of strands installed is determined by the intended use of the enclosure, pasture, plantings, or decorative fencing.

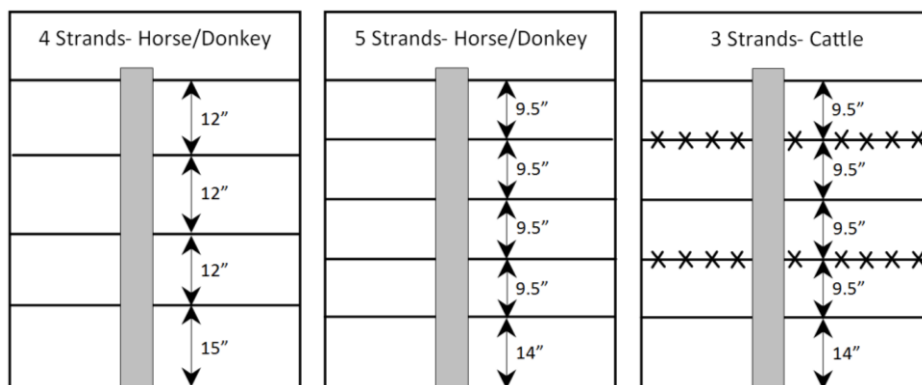
When you have completed your fence layout, contact your local utility company and schedule an inspection to determine if and where utility lines are located. Typically, in most localities, a free "One Call" program is available, and response is in less than three days. THIS IS VITAL BEFORE DIGGING THE 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 XL, acceptable post spacing is 8 to 12 feet apart. **Finishline XL recommends using at least one strand of electric when installing your fence line if you will be containing livestock. If you choose not to use electric, please do so with caution.**

Equine/Donkey-. When containing horses, it is recommended to use 4 to 5 strands of Finishline XL 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



tend 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 Finishline Fencing, an electrified wire is recommended.

Cattle- Use 3-5 lines of Finishline XL with two lines of barbed or electric between strands. Finishline is an excellent sight line for large cattle farms.

Deer- Finishline XL 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 XL with minimal damage.

Please note: Although many of our customers do not use electric with their fencing, please use caution when choosing this option. As a livestock owner, you understand best the behavior of your animals. Please use extra caution when using this option.

Attaching Finishline XL to your Posts

Finishline XL 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 XL to your wood and t-posts. All choices work equally as well.

Wood Posts - There are three main options to attach Finishline XL to wood posts: insulators, drilling, and stapling.

1- Wood Post Insulators

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

2- Drilling through the posts

Finishline XL can also be installed by drilling through line posts and running the Finishline XL through holes 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 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" or 3/8" wood drill bit. For large diameter posts, a 5/16" bell hanger installer drill bit permits drilling through the thickest posts.

3- Staples (standard U)

When installing with the Staples, care should be taken to prevent crushing Finishline XL when hammering each staple. This permits the Finishline XL to slide freely without wear.

T-Posts – When installing Finishline XL to a T-Post, standard insulators are the preferred choice.

1- T-Post Insulators

All standard T-Post Insulators work to attach Finishline XL to the posts.

2- T-Post Vinyl Safety Cap

Toppers add safety and visibility for humans and livestock.

Installing Your Finishline XL

Due to its larger diameter and higher tensile strength, Finishline XL is available on coils. Before taking the coil out of the box, either put the coil on a spinning jenny for easy installation, if not available, keep the coil in the box, cut the black straps, and pull the Finishline XL **slowly** from the center of the coil to prevent tangling.

Start Post

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

1- XL One-Way Anchor Vice – 1-inch hole

To start your fencing with a One-Way Anchor Vice, drill a 3/8-inch hole through the post, then partially drill a 1-inch hole in your start post on the end where you will be using the vice. Then begin threading the line back through the hole while holding the pointed end of the vice at the first post. Cut the Finishline at an angle and insert the Finishline as straight as possible through the vice to prevent getting caught in the spring. Once the line is through the vice, insert the vice into the post.

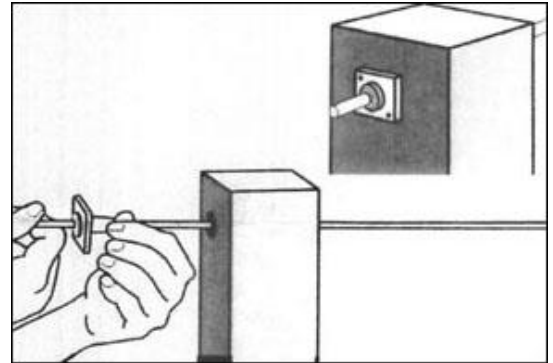


Illustration 4.1

2- D6 or XL Splicer/FastLink

Instead of drilling through your end post to begin your runs, you can also wrap around your end post and hold the line with the items above. Always cut Finishline XL at an angle to prevent the line from getting snagged inside of tensioner. See *Illustration 4.2* for an example.



Illustration 4.2

Stretching and Securing Tension at Your End Post

There are two ways to secure the tension that you will pull on the Finishline XL.

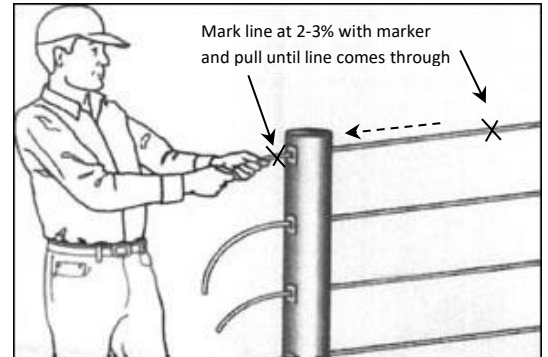
1- XL One-Way Anchor Vice – 1-inch hole

To tension your fencing with an XL One-Way Anchor Vice, drill a 3/8-inch hole through the post, then partially drill a 1-inch hole in your start post on the end where you will be using the vice. Then begin threading the line back through the hole while holding the pointed end of the vice at the first post. Cut the Finishline at an angle and insert the Finishline as straight as possible through the vice to prevent getting caught in the spring. Once the line is through the vice, insert the vice into the post and pull all the slack out. Once you do this you are ready to tension.

Pull Finishline XL from the vice end and stretch the Finishline XL 2-3% of the total strand length. Always start at the bottom strand and work your way up to the top strand. Finishline XL can be tensioned by hand strength, eliminating the need for special tools. Though when tensioning a long run, it is recommended to use a **Torq Tensioner Tool** available in our online store or by attaching a vice grip to the Finishline XL and pulling the tension with a truck or tractor or by using a fence stretcher that you may already own.

Finishline XL requires a tension of 2-3% of total strand length. For example, a 400-foot length with 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 hand strength, fence ^{Illustration 5.1} stretchers, or vice grips until the determined length is pulled through the end post vice. 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 XL with a staple to the post for future tensioning purposes.



Please be advised: do NOT pull down hard on Finishline XL with a tensioning tool or vice grips. Pull directly towards you.

3- D6 or XL Splicer/FastLink

When reaching the last post of the run, thread the Finishline XL through the directed slot of the D6 or FastLink. Wrap the Finishline XL around the end post and then thread the end of the Finishline XL through the remaining hole in the tensioner. Use a Torq tensioner to tension the line the 1-2% and the tensioner will hold the line in place.

How to tension with a Gripper, D6, or XL Splicer/Fastlink

Like the One-Way Vice tension directions above, once all the slack is pulled out, you will want the loop around your end post to equal the 3% needed to pull tension (give yourself an extra 10-12 inches to make up for the post).

For example, a 400-foot length with a 3% tension is 12 feet (.3 x 400), then add an extra 12 inches totalling 13 feet.

Now you are ready to use the Torq Tensioner Tool. As shown in Illustration 5.2, you will use the torq tool to tighten the Finishline and bring the tensioner closer to your end post. Once the 3% tension is pulled, you are at perfect tension. Feel free to trim the excess line and use a white electrical tape if desired to keep the tail flush against the rest of your fence.

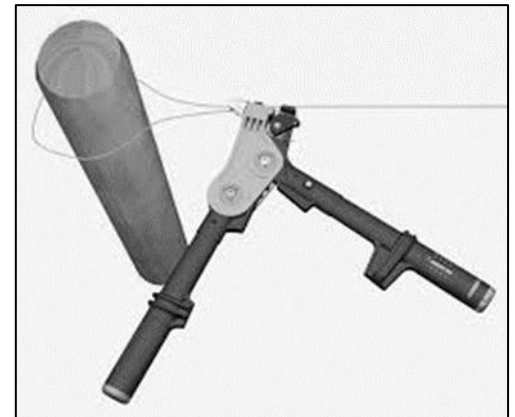


Illustration 5.2

NOTE: If you are using a D6 tensioner, once tension is achieved, use the Hex key to move the D6 into the LOCK position.

Splicing/Repairing- If your job requires mor **XL Splicer/Fast Link** simply put one end of each line being spliced into an opposing hole in the splicer. Look for the arrows on the splicer if you have a question on how to use. Please see Illustration 6.1



Illustration 6.1

Electrifying the Fence

Typically for a fence that is being used to mark one's property or to add additional beauty to the land, Finishline XL alone is quite fine. Finishline XL can be used with an electric fence line if you want to keep livestock in or unwanted wildlife out. 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 XL cannot carry an electrical charge itself, but Finishline XL 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- Wrap an electric line around one of your Finishline XL strands. Using this technique will reduce the amount of labor necessary to upkeep electric. Because Finishline XL rarely loses tension, you can support your electric line by wrapping it around one of your Finishline XL 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 XL strand between posts. The electric wire will need to go through an insulator on each post. Finishline XL 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 as the best way to reduce animal contact with the fence.

Additional Information

With time, Finishline XL 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 on the fence line where the One-Way Anchor Vice or D6 is located. 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 50 feet away from the next corner, feel free to wrap Finishline XL around the outside of the post and tension at the next gate or end post. This will save on the tensioners needed. It is recommended to put some sort of protective covering around the Finishline XL to eliminate abrasion. Common household items work well for this such as an old garden hose. Please see *Illustration 6.3* for example.



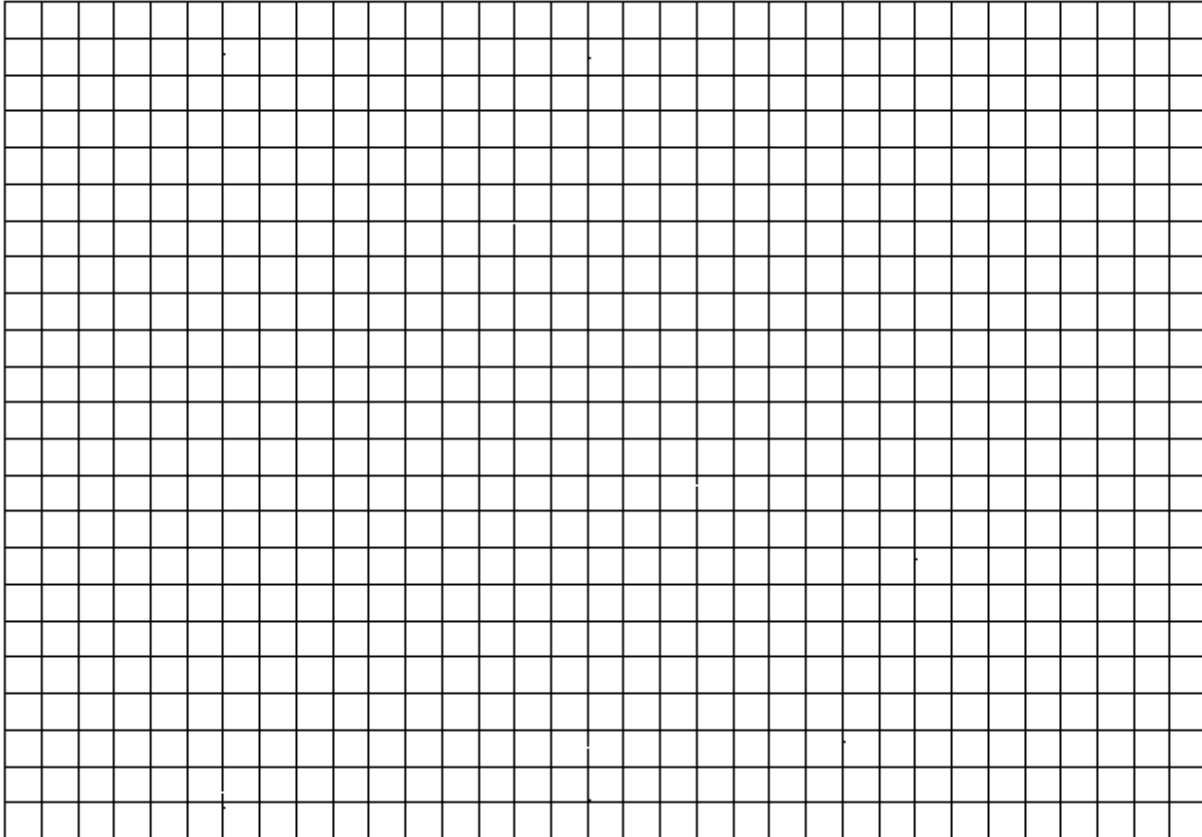
Illustration 6.3

Measuring Guide

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

Each Coil of Finishline XL has 2,000 feet of line

Please use the grid below to sketch your fence layout.



Although the information and recommendations in this Finishline XL 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**