

KENCOVE

FARM FENCE SUPPLIES

October
2003
WEB



**Non-Electric Tight-Knot
Woven Fence** PAGE 9

Ideal for Exotics, Sheep and Cattle!



**Find electrical shorts
the easy way!** PAGE 27

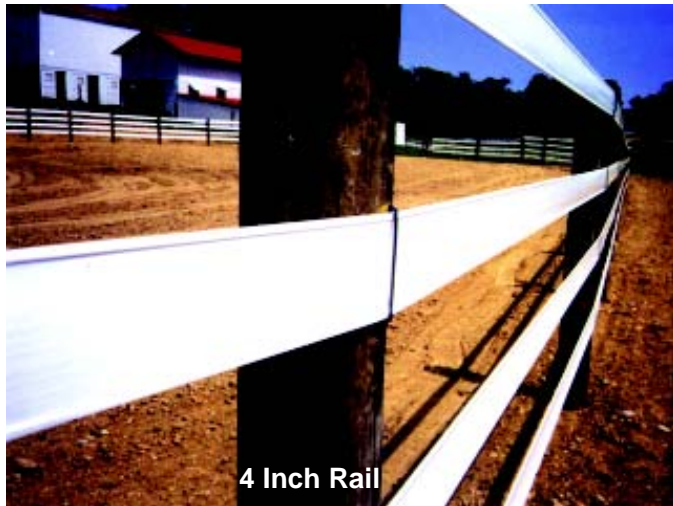
**INSTALL IT YOURSELF!
HIGH-TENSILE
FENCING**

- IT'S STRONG
- IT'S ATTRACTIVE
- IT'S LONG-LASTING

SAVE MONEY!

You supply the posts,
tools and labor and
our **6-WIRE
HIGH-TENSILE FENCE**
will cost you just...

11 cents / foot



4 Inch Rail







Horse Fence PAGE 21

Safe and Low Maintenance with a Classy Look!

WHITE LIGHTNING™ Has Hit **KENCOVE!!!**

(see Page 20)

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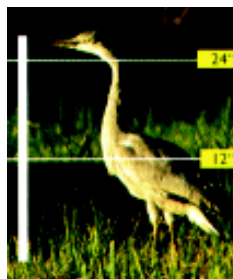
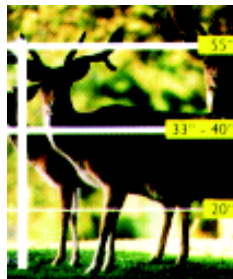
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Planning and Instructions

by Charles Kendall March 2003

The six-wire fence is one of the more popular high-tensile fences. It should be electrified to make it really secure, but it will generally keep stock from escaping even if the electric is off for an extended period of time. The 60 inch high anti-deer fences, 48 to 54 inch high cattle or horse fences, and 42 inch high sheep fences are all examples of good six-wire electrical fence variations.

Compared to non-electric fences, you'll enjoy major savings by using wide post spacings (20 to 50 feet) and lighter end bracing. The six high-tensile wires are not easy to get through, are almost impossible for animals to break, and often last for over forty years. This fence looks great and it works! Relax and enjoy the farm more with an affordable fence from Kencove.

Can you afford this fence? High-tensile fencing is very low in cost when compared to other options, especially when considering its long life-expectancy. You could put up the fence today and likely never need to replace it in your lifetime. While eleven cents per foot can cover the basic cost of wire and associated hardware for the 15 acre package listed, the most expensive parts of the fence are posts and labor. If you find a contractor who supplies the material and labor to build a six wire fence, the cost is likely to be over a dollar a foot. If you do not have the time, a contractor may be your best option. If you need a good contractor, check with us. We may know of a contractor in your area who is a Kencove customer. If not, Kencove can help advise a crew interested in learning how to build high-tensile fences. We have helped start many independent fence builders.

If you do have the time, we believe you can really enjoy building this type of fence. Do you remember the thrill of challenge and the pride of accomplishment in your hobbies or past times? In our family my son, Don, has put together radio controlled airplanes; my daughter, Alice, has done fine needlepoint; and Phyllis, my wife, enjoys the challenge of writing computer programs as well as several crafts. Dairy farming was my big challenge until I got excited about high-tensile fencing. Just think of the pride you'll have in showing your neighbors the great looking, long lasting, highly effective high-tensile fence that you built.

Let's go through on paper, some of the steps required to build this fence. Decide what you are going to do about the main tools you need. You could try digging the post holes by hand, dispensing the wire without a jenny, and hand knotting the wire. Most people will not enjoy that big of a challenge if there is a lot of fence to install. I believe the **spinning jenny** is the most essential tool. High-tensile wire comes in about a 21 inch diameter coil with no spool. It is easily dispensed with a turn table (spinning jenny). You may want to build a plywood spool around the coil. Most people end up buying a Kencove Spinning jenny. Using nothing to dispense the wire is an easy way to end up with a tangled mess or injury.



The above pictures with wire spacings are only recommendations. The best configuration for you may be different - animal size, temperament, etc.

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...SIX WIRE FENCE



The biggest labor-saving tool is a tractor mounted **post driver**. Posts are set very quickly and are tight. A tractor mounted driver can cost \$1,900 to \$16,000. If you have a lot of fence to build, it will pay for itself in labor savings alone. If you are lucky, you may find a neighbor willing to rent a post driver to you. Some contractors are willing to just drive the posts.

A post hole digger will work, but it will take more effort and time. The end and corner posts need to be placed four feet into the ground, and the lower 1/3 of the hole should be concreted to keep the post from lifting out of the hole.

We recommend a **crimping tool** used with the proper number of **crimping sleeves** for your specific application. This will maintain the full strength of the wire, and also makes a neater connection. Even if you have an expert personally demonstrating the hand-knotting technique, it takes a while to learn how to tie the stiff H-T wire properly. Expect to lose 1/3 the breaking strength at an in-line splice with the best knot.

In planning your new fence, the first thing to do is find the length of your fence. An easy and economical way to measure the footage to be fenced is to step off a known distance (such as the length of a barn) and calculate the length of your average step. Now draw a rough map of the fence, showing lengths, gates, ends, corners, and other special terrain considerations you may have in your pasture. This is an excellent visual aid and will go a long way toward keeping you organized as far as actual fence construction and materials lists are concerned.



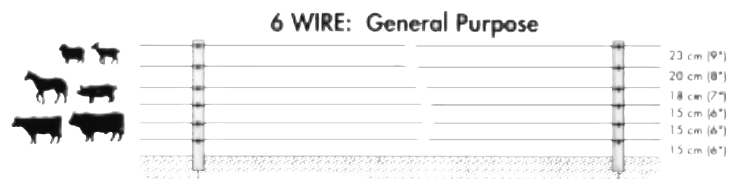
ACRES	2.5	5	10	20	40	80	160
FEET (square pasture)	1,320	1,867	2,640	3,733	5,280	7,467	10,560
FEET (pasture is 2 times as long as it is wide)	1,400	1,980	2,800	3,960	5,600	7,920	11,200
FEET (pasture is 4 times as long as it is wide)	1,650	2,333	3,300	4,667	6,600	9,333	13,200
FEET (pasture is 8 times as long as it is wide)	2,100	2,970	4,200	5,940	8,400	11,880	16,800
FEET (pasture is 16 times as long as it is wide)	2,805	3,967	5,610	7,933	11,220	15,867	22,440

We have included for your information a chart comparing approximate perimeter footage of fence lines compared to acreage.

Use this chart for educated guessing only. It is always the best practice to measure the fence line distance as accurately as possible in order to purchase the correct amount of materials. Remember when the fence around a square pasture is doubled in length, there is four times as much land inside. An easy way to remember the square footage in an acre is to remember there are 640 acre in a square mile (5280' x 5280' divided by 640 acre = 43560 ft² / acre). The materials list for our 15 acre, 3280 foot perimeter example fences have supplies for three corners and two ends. Since there is over a half mile of fence, there are two sets of in-line wire tighteners for each strand.

The first posts to install are the 5 to 6 inch diameter (measured at the small end) corner and end posts. It is best to lean the posts 2 to 4 inches away from the pull of the wire. This will help prevent uplift in the future. Lifting is the most common problem of end and corner posts.

Installing the guide wire is next. If you need to carry the coil of high-tensile wire any distance, set the wire flat on the ground and step into the center hole. The coil feels much lighter when you have two hands holding it, and the weight is centered on your feet. Now place the coil on the spinning jenny and pull out the starting end of 12.5 gauge wire. This normally will be the lowest strand of fence wire. Snap locking pliers onto the end of the wire and walk along the fence line, being careful to pull at a steady pace and gradually slow down to stop. You can pull around several corners without tying it off. In this example, you will pull the wire around one corner and do your permanent tie off (termination) at the next corner. When you get to this corner post, do your termination by crimping with two C23 sleeves or hand knotting.

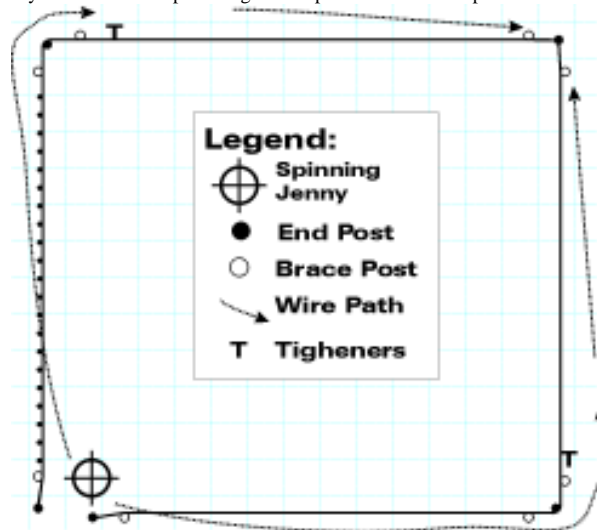


Go back to the end post near the spinning jenny and wire. Pull the slack out of the wire and cut it so you have enough to tie the line off at that end post and attach it, again using crimp sleeves or a hand-tied knot. When you cut H-T wire, it is good to get into the habit of pushing the cut ends of wire into the ground. This keeps the wire from recoiling. Move to the frictional center of the line. Pull on the wire to get all the slack at that point. Cut the wire then thread two crimp sleeves onto one wire end. Put the wire through the hole in the strainer's strap, bend it around and insert the end through the other holes in the crimp sleeves and crimp them. A slight bend in the wire will facilitate insertion into the crimp sleeve. The other wire end goes into the hole on the strainer's spool. Don't crimp the wire into the hole of the spool or put the wire too far through the hole (1/4 inch out of the other side is enough). Using your strainer handle, tighten the wire by turning the spool (try not to leave so much slack that the spool is too full.) This is your guide wire for setting the other posts, so try to make sure it is straight.

Go back to your spinning jenny and pull out your guide wire for the other half of the fence. Tie off each end and install the strainer in the same manner as before. You should now have a straight line of guide wire for line post placement. Install the remainder of the line posts about a half inch away from the guide wire. Normally these posts should be positioned so the animals push the wire toward the posts; the wire should be on the inside of the fence, closest to the animals. The only exceptions are on the corners, where the wires should be on the outside of the posts. The first brace post away from the end or corner posts should be carefully set into the ground so the top brace rail just fits between them. Remember, it is much easier to cut a post than to stretch it. Try to have the top rail at least 7 1/2 feet long, 10 feet is better. Install the top rail centered between the top two wires. An easy way to do this is with a marked stick which is the length of your post after it is set in the ground. Mark your wire spacing on the stick. Then use this stick, and crayon or chalk, to mark the wire heights on all the end and corner posts. This will help in placing the top rail at the correct height. Your marked stick should also be used to mark your line posts with the planned wire spacing.

On the end or corner post, drill a 3/8 inch hole two inches deep halfway between the marks for your top two wires and install the 4 inch brace pin. Drill a hole 2 inches into the center of one end of the top rail. Now drill a hole through the post supporting the other end of the brace rail. Push the brace rail onto the 4 inch pin and position the other end so you can drive the 9 inch pin into its center. Do not drive the pin flush. Leave an inch sticking out.

Two inches above the ground on the outside of the end post drive a staple for the brace wire. Leave one-half inch sticking out. Attach the wire to an in-line strainer and pull it off the jenny until you have two complete diagonal loops around the brace posts. These loops should





ADD SOME POSTS

cross each other in a figure 8 shape. The staple should be holding the wire at the base of the end post and the inch-long stub of 3/8 inch x 9" brace pin should be holding the brace wire up to the height of the brace rail on the second post. Cut the wire and take up the slack with the in-line wire tightener. You have now built your brace.

Begin pulling the second fence wire out, stopping along the way to install the brace wires for any corners and at the other end assembly. At the far end post, install a wraparound insulator before tying off. This wire will be tied off in the same manner as the guide wire (first wire.) Remember, this wire will have wraparounds on the corner posts and tube insulators on the line posts. Count the posts. Keep track of how many posts are on each side of each corner. This will be important when threading the tube insulators (one for each line post) and wraparounds (one for each corner post) onto your wire.

Cut the wire at the spinning jenny end post and thread the proper number of 4 inch tube insulators and wraparounds onto the wire in the order they will be used. (This was figured when counting posts between corners.) Include a few extra tubes in case they are needed at the brace wire on the end assemblies. They can be used to isolate your fence wire where it might touch any brace wires. Staple the bottom two wires to the posts. Be sure not to drive the staples tight against the wires. The staples should be placed over the tubes with the flat side against the post and the fins facing you. Drive the staples until they compress the fins slightly, but not so tight that they pinch the wire.

It is best to put staples horizontally above and below the wraparound insulator rather than straddling it. Finish installing wires, insulators and in-line wire tighteners. Wraparounds and tube insulators are only needed on the wires you will electrify.

It is common to put a tension indicator spring onto one or more of the wires at the in-line wire tighteners. Two hundred fifty pounds is the recommended tension on non-electric style fences. The 1st notch on the heavy duty tension spring tug indicates about 150 pounds of tension. Tighten the wire until the end of the spring exposes 2 notches which equals about 250 pounds tension. If you know of a weak area in the fence, only tighten the wires enough to keep them from sagging. When you can't tighten to the full 250 pounds of tension, it becomes more important to keep the fence electrified. Wide line post spacing also requires the electric to be on more of the time.

This gives you a brief overview of building a basic six wire fence. Of course, these instructions can be adapted to fences of varying numbers of wire. If you want to use more than six wires, you should build double end and corner braces. Suggestions regarding installation or maintenance are only a phone call away.

Do It Yourself Cost

Wire (pg 6)	5 Coils 12.5 Ga 180,000 PSI Wire 4000 FT FOB(WSA2)	48.00	240.00
Tighteners (pg 13)	20 Hayes Style Wire Tighteners (SAS-AL)	1.50	30.00
Connectors (pg 15)	1 Pack /100 Crimp Sleeves (C23)	9.00	9.00
Springs (pg 14)	2 Heavy Duty Tension Indicator Springs FOB (HTS-HD)	4.50	9.00
Corner Insulators (pg 31)	2 Packs/10 Wraparound Insulators (I40)	7.00	14.00
Line Insulators (pg 29)	2 Packs/200 4" Flat Back Tube Insulators (I53)	7.75	15.50
Staples (pg 16)	1 10 Pound box 1 3/4 Inch Barbed Staples FOB(HBS-10)	11.00	11.00
	5 Pounds 1 3/4 Inch Barbed Staples FOB (HBS)	1.25	6.25
Brace Pins (pg 16)	8 4 Inch Brace Pins (H4PE)	.25	2.00
	8 9 Inch Brace Pins (H9PE)	.44	3.52

3280 FEET @ 10.4 cents/FOOT

\$340.27

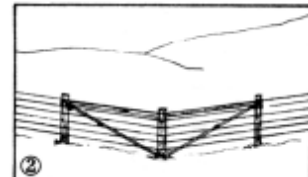
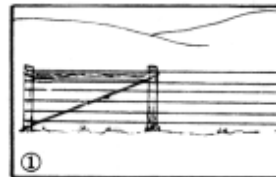
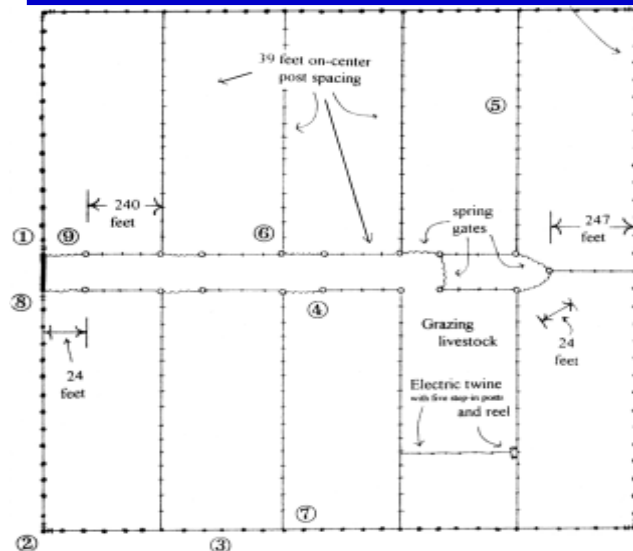
Package listed above will do a 15 acre pasture (approximately 3280 feet perimeter) with a 16 foot gate opening at one corner, as in our sample diagram. Three wires are insulated for electric, with posts spaced at 25 foot centers. As with any packaged plan, measurements and materials are approximations. Your needs will vary. Price does not include labor, posts, spinning jenny, fencing tools or charger. Wire and staples will be shipped FOB, Blairsville in Southwestern Pennsylvania or Earl Park in Northwestern Indiana. All other components listed above for this project qualify for **FREE** shipping. The posts which are listed below are FOB Kencove's PA yard. Posts are stocked at our IN yard but prices are different. Small quantities of wood posts are expensive to ship so it may be good to check on local post prices. Call for complete details.



see page 11

Code:	PV4	PC4	PC5				
	Pressure Treated CCA Wood 4-5" x 7"	Pressure Treated CCA Wood 4-5" x 8"	Pressure Treated CCA Wood 5-6" x 7"				
Bundle pieces	Bundle (60)	Bundle (60)	Bundle (45)	Each	Each		
Prices: (each)	\$5.81	\$6.23	\$6.72	\$7.20	\$9.11	\$9.77	Totals
25 Foot OC (perimeter 3280 ft)	Number 120	4			120	4	
	Cost 697.20	24.92			722.12		
50 Foot OC	Number 60				60	0	
	Cost 348.60				348.60		
15 Foot OC	Number 180	31			180	31	
	Cost 1,045.80	193.13			1,238.93		
Corners (3)	Number			12	3	0	15
	Cost			86.40	29.31	0	115.71
Ends (2)	Number			4	2	0	6
	Cost			28.80	19.54	0	48.34
25 Foot OC Line Posts - 3 Corners - 2 Ends (27 cents per foot)						886.17	
MY Package total for fence example (27 cents per foot)						1,226.41	
Line Posts	Number						
	Cost						
Corners	Number			x 4			
	Cost						
Ends	Number			x 2			
	Cost						

SUBDIVISION



HIGH TENSILE FENCE ACCESSORIES & PACKAGES

Easy to maintain

PERMANENT SUBDIVISION FENCING

1	High Tensile 16 gauge, T3 galvanized Wire	FOB	(WM6-K3)	36.00	36.00
5	Fiberglass 2/3" Rod Posts, SunGuard, 5 foot	FOB	(F23-5SG)	3.75	18.75
65	Fiberglass 1/2" Rod Posts, SunGuard, 4 foot	FOB	(F12-4SG)	1.60	104.00
5	2/3" Stainless Steel Spring Grip Clips		(F23S)	.20	1.00
68	1/2" Stainless Steel Spring Grip Clips		(F2S)	.17	11.56
1	Gate Handle, Polycarbonate		(GPC)	2.40	2.40

3420 foot of 1 strand fence with SunGuard posts at 50 foot OC is 5¢ / foot \$173.71

If you use more than one strand, get extra security by using separate end and corner posts for each strand. Lean these posts about a foot so the wire has a very springy feel. Tighteners are not needed. Hand wrap the ends and leave the extra wrap wire for future adjustment. 5' Deer fence = 5 or 6 strands

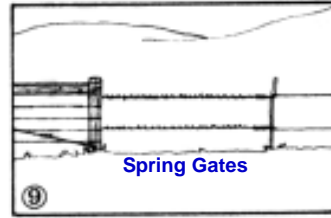
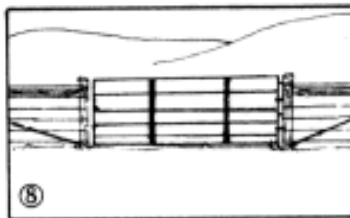
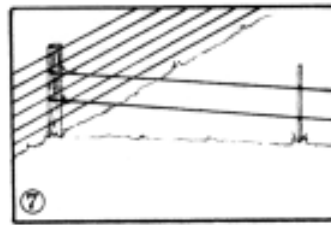
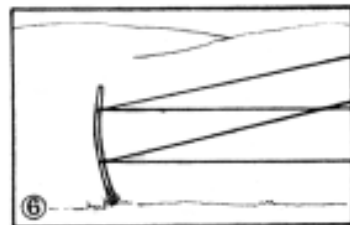
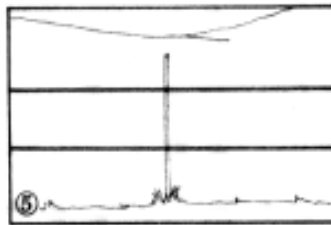
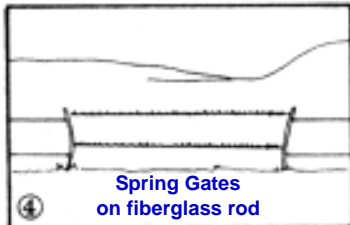
Quick to install

FINAL SUBDIVISION FENCING

1	1640 ft electric twine, 6 stainless steel wires, white	(R56)	29.95	29.95
1	Reel to fit 3/4" post, w/2 hooks + carry & rewind handles	(RPR)	23.50	23.50
35	Step-in Posts with plastic clips, 44" FOB	(RPP)	1.65	57.75
1	Power Connector (3' of bare stainless wire)	(MPCS)	4.75	4.75
1	Plastic Gate Handle with no conductor	(GPL)	1.65	1.65

\$117.60

SUBDIVISION (cont)

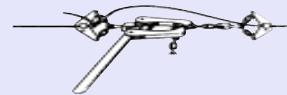


TOOLS

1	Handle for the Hayes style wire tightener, required	(TFH)	4.25
1	Spinning Jenny, required FOB	(TSJ-A)	38.00
1	9" Wire Cutter for the hard wire	(TCTHD)	12.50
1	Four Slot Crimping Tool 5 year warranty	(TFFG)	44.00
1	Chain Grab Wire Puller, Donalds	(TCG)	46.00

ALL FOR ONLY

\$144.75



(TCG)



(TFH)

ADD-ONS

1	Kencove 6 Power Fence Charger		
6	joules, 120 volt		
	(EK6)	182.00	
8	Ground Rods 6' x 1/2" Hot Dip Galvanized, FOB		
	(MG6)	4.80	38.40
8	Ground Rod Clamps, 1/2", Bronze, buriable		
	(MGC-B2)	1.25	10.00
100'	Copper Ground Wire, 6 gauge bare, per foot, FOB		
	(MGWFT)	.30	30.00
1	Power Surge Protector, plugs into 120 volt		
	(MPS)		5.75
1	Pre-assembled Lightening choke coil & lightening diverter		
	(MWLA)		8.50

ALL FOR ONLY \$274.65

6	Split Bolt Line Taps		
	(CBTE)	.65	3.90
2	Switches, heavy duty cut out		
	(MCD-HD)	5.50	11.00
1	Voltage Tester - 6 Light		
	(V6L)		10.75
1	Underground Cable, 50 foot, FOB		
	(GU50)		6.75

ALL FOR ONLY \$32.40

HIGH TENSILE STEEL WIRE - CLASS 3 GALVANIZED

What is PSI?

Minimum Pounds per Square Inch breaking strength can be calculated yourself by taking the cross-sectional area (in square inches) of the wire times the PSI. The result will be breaking strength.

FORMULA:

Area = 1/2 Diameter Squared x Pi
Minimum breaking strength = Area x PSI

EXAMPLE:

12 1/2 gauge, 210 wire
Area = (.5 x .099") x .0495" x 3.14 = .0077 square inches
Minimum breaking strength = .0077 x 210,000 PSI = 1617 pounds

Do not confuse our *minimum PSI guarantee* with other wire advertised as a *maximum* of 170,000 PSI. That minimum may be as low as 140,000 PSI. On a .099 inch diameter wire, this equals a 1078 pound minimum breaking strength. Some confusion occurs when comparing different types of galvanized coatings. Class 1 coatings, normally found on 12½ gauge barbed wire and common smooth or woven wire field fencing, has the lightest zinc coating and thus the shortest life expectancy. Class 3 coatings have over 250 percent heavier coatings of zinc than Class 1. This heavier coating will extend the time it takes for initial rust to appear by two to three times (six to thirty years versus two to eleven years). All the wire Kencove sells is Class 3 galvanized, except for our longer lasting Aluminum-Clad, Galfan coated, and Aluminum wire.

STRONG - LONG LASTING - ECONOMICAL

210 PSI 12 1/2 gauge wire is the highest quality. This electro-galvanized wire has very uniform and tight bonding of the zinc coating and extra high strength and resiliency. It can be wrapped tightly around its own diameter without breaking, and dispenses with less chance of tangles, if you use a spinning jenny. Even though you pay a bit more, many customers feel it is worth it. Odd length (shorts) coils are a normal by-product when high-tensile wire is being rewound into standard length coils. You can obtain this top quality wire at a lower price by ordering these shorts.

USA 210 12½ Gauge 210,000 PSI min = 1617 lb at .099 inch
2600 ft coil Can UPS 68 lb FOB (WMU) 46.00
4000 ft coil Can UPS CWT 105 lb FOB (WM2) 65.00
Odd length coils per foot 38 feet per pound FOB (WM2FT) 1.5¢/ft

200 PSI 12½ Gauge wire is Kencove's farm supply store strength H-T wire. This wire can give one of the lower cost, high strength fences with the class 3 galvanization life. This 200,000 PSI wire has nearly twice the breaking strength of standard two-ply barbed wire.

NEW! Premium Grade Steel, Electro-Plated, Polished, 12½ Gauge, 200,000 PSI min = 1540 lb at .099 inch 12½ Gauge "K" Wire - GREAT VALUE!

4000 ft spin coil Electroplated 105 lb FOB (WK2) 56.25
Shorts Electro-Plated, Polished FOB (WK2FT) 1.2¢/ft

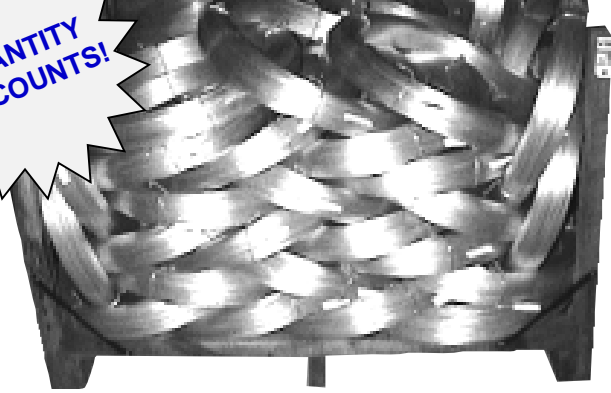
Shorts - hot dip galvanized 200,000 PSI wire FOB (WD2FT) 1.2¢/ft

14 gauge wire is a popular electric high tensile fence wire in the northeastern USA. There is less weight to support yet it has a similar breaking strength and a springier feel than the 170,000 maximum PSI 12½ gauge H-T wire. Even though this wire has a smaller diameter, it is able to be stretched to a higher tension and still retract to its original length. Normal breaking strength is 1100 pounds.

USA 210 14 gauge 210,000 PSI min = 1004 lb at .078 inch
3800 ft coil 65 lb UPS FOB (WM4) 49.50
5000 ft coil 86 lb FOB (WM45) 63.00
Shorts FOB (WM4FT) 1.1¢/ft

QUANTITY DISCOUNTS!

.099



SAVE on 4000 FOOT COILS

5 Rolls	\$1	per roll
10 Rolls	\$2	per roll
20 Rolls	\$3	per roll
50 Rolls	\$4	per roll

180 PSI 12½ Gauge wire with Class 3 galvanization and slightly lower tensile strength is an excellent choice for those of you who prefer the traditional hand-knotting methods. In New Zealand, 180,000 PSI wire is the standard used for both electric and non-electric fences. Kencove WSA2 wire has a minimum breaking strength of over 1350 pounds. The price and quality make this wire very popular. All of it is rewound on Kencove's new machines to give excellent wire payout.

WSA 180 12½ Gauge 180,000 PSI min = 1358 lb at .098 inch
2600 ft spin coil Can UPS 66 lb FOB (WSAU) 33.80
4000 ft spin coil, **10 coil @ \$47.00 each** 100 lb FOB(WSA2) 49.00
Shorts 40 feet per pound FOB PA (WSAFT) 1¢/ft

16 gauge high tensile wire makes it possible to build subdivision fences quickly at low cost. They will take over ten years of abuse with minimal maintenance. The end and corner posts don't need to be braced because this wire acts like a light weight rubber band. The wire can give more than the heavier gauges without transferring as much stress to the end posts. Since less weight is suspended, less tension is required.

Light 3/8 or 1/2 inch fiberglass rod posts can be used for the majority of the line posts. Rod diameters of 5/8", 2/3" or 3/4" in either five or six foot lengths are ideal for end or corner posts. Lean the end post 20 degrees away from the wire's pull. Use a separate end post for each wire. This will allow each wire to be tightened without affecting the other wires' tension. Both the 3400 and 6340 foot coils fit a standard spinning jenny, which may also be used to rewind the wire. If rewinding, use the largest diameter on your jenny.

USA 210 16 gauge 210,000 PSI min = 614 lb at .061 inch
3400 ft coil 36 lb UPS FOB (WM6-K3) 36.00
6340 ft (1.2 mile) coil 66 lb UPS FOB (WM6-K) 63.40
Shorts 96 feet per pound FOB (WM6FT) 0.9¢/ft

HIGH TENSILE WIRE - ALUMINUM CLAD

GALFAN COATED

GALFAN 12½ Gauge 190,000 PSI minimum wire. 1433 pound

minimum break at .098 inch. Galfan is a zinc alloy coating that offers performance advantages that go far beyond the limits of conventional galvanizing. Consisting of mainly zinc plus a little aluminum, the Galfan alloy coating provides as much as seven times the corrosion protection as traditional class 3 galvanized coatings. The Galfan coating provides this protection in two ways. The aluminum provides longevity of the coating and the zinc provides sacrificial cathode protection against corrosion where scratches may occur in the coating. Ideal for use where a stronger, longer lasting wire is desired. Over time the Galfan wire will turn a bit darker gray than our other wires.

Galfan 12½ Gauge 190,000 PSI min = 1433 lb at .098 inch.

2160 ft spin coil	56 lb UPS FOB	(WG19U)	37.00
4000 ft spin coil	105 lb FOB	(WG19)	65.00
Shorts - 38 feet per pound	FOB	(WG19FT)	1.4¢/ft

Kencove has SOFT WIRE options.

Although I have liked the strength of HT wire, many people still do not use it because it is stiff to bend. This is not farm store grade wire. Expect many of these wires to last 50 years. Although soft wire is easy to overstretch and break, it is also easy to repair and retighten.

Galfan Soft 12.5 ga 2600 ft	FOB	(WGS99U)	39.00
Galfan Soft 13.3 ga 1650 ft	FOB	(WGS88)	24.75
Soft 12.5 gauge T3 galvanized 1000 ft	FOB	(WSS1)	16.50
Soft Steel 12.5g. galvanized 4000 ft	FOB	(WSS4)	50.00
Soft Steel 12.5g. galvanized steel / Ft	FOB	(WSS4FT)	.012
Aluminum Wire .11" diameter 1000 ft	FOB	(WTT9)	54.82
Aluminum Wire .08" diameter 1320 ft	FOB	(WTT14XL)	32.50
Aluminum Wire .08" diameter 5280 ft	FOB	(WTT12SF)	100.00

Aluminum Clad High-Tensile steel wire has

the potential to last up to five times longer in corrosive environments than galvanized wire. Visibility is good. Overall customer reaction has been very favorable.

Aluminum Clad Wire normally over 1500 lb break at .099" FOB

4000 ft. Spin Coil 87 lb	FOB	(WAC4)	80.00
Shorts	FOB	(WACFT)	1.75¢/ft

Kencove has several odd diameters of aluminum clad wire on wooden spools. You can buy the wire on the spool. This will save some money and possibly you will find dispensing easier. The 13 gauge is a great value for permanent electric fence wire. Sold by the pound.

Odd lengths on wooden spool	FOB	(YWC#)	76¢/lb.
Add 25% if you want it rewound. \$25 minimum order.			

4000 ft. Coil 13 gauge 71 lb	FOB	(WAC13)	65.25
3000 ft. Coil 11 gauge 94 lb	FOB	(WAC13)	74.50



www.fence-electric.com

- Secure Online Ordering
- Color Pictures
- Articles
- Submit Questions
- Fence Packages

GALFAN 14½ Gauge 180,000 PSI minimum wire. This lighter gauge wire is

excellent for electric divisional fences. Kencove's 14½ gauge Galfan wire offers a 16 percent heavier coating than traditional class 3 galvanized wires of the same size. This wire is much easier to work with when compared to 12½ gauge H-T wire. The extra long life advantages of the Galfan coating are outlined above. These are especially important in the lighter gauge wires. Available in 2160 and 4000 ft coils.

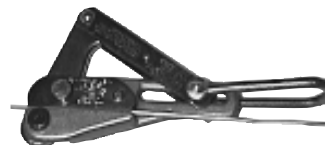
Galfan 14½ Gauge 180,000 PSI min = 816 lb at .076 inch

2160 ft spin coil	34 lb UPS FOB	(WGFL)	30.00
4000 ft spin coil	62 lb UPS FOB	(WGFL2)	55.00
Shorts	FOB	(WGFLFT)	1.1¢/ft

We have **Aluminum Crimp Sleeves** to use with the aluminum clad wire and nylon guy wire. Wire sized in the 14 to 12½ gauge will fit our C23AL crimp sleeve. It has the same size opening as the standard C23 sleeve but is slightly longer in length. They work well on wires in the 11 to 8 gauge range. These sleeves are now "gritted" for more holding strength.

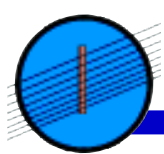
Long Aluminum Crimp Sleeve 12½ ga smooth 100/pk	(C2LAL)	17.50
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Please check on page 15 for a complete line of crimping sleeves.



The **Klein Gripper** is to be used in place of the regular jaws on your chain grab. This gripper gently grabs the wire between two slightly textured surfaces. As the wire is pulled, the gripper increases its hold on the wire but does little damage to the coating. A simple sliding action of the surfaces allows for easy on and off. When installing Aluminum-Clad wire, extra care must be taken to avoid damaging the coating when pulling the wire. A standard chain grab wirepuller jaw may scrape the aluminum coating off the wire.

Klein Gripper Best for Aluminum clad wire	(TAG)	79.50
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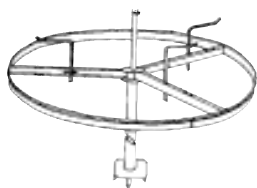
SPINNING JENNIES

If you do not use some sort of turntable to dispense the wire, the risk of tangles and personal injury, especially to the eyes, is greatly increased. Set up the jenny loaded with wire on the ground. You can walk away pulling the end of the wire and the jenny will spin, preventing your wire from tangling.

Smooth wire drags easily, especially downhill. Slow down gradually before stopping to prevent over spinning and tangling. A simple brake to reduce over-spin can be made by attaching a rubber flap under the jenny. If rewinding wire in the field, always use the outer most position of the arms, as the rewind coil will have a tendency to "shrink" in diameter when removed from the jenny.

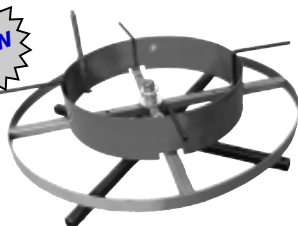
Kencove Spinning Jenny w/ drive pin, base plate & 3 arms FOB (TSJ) \$67.00

The Kencove jenny (TSJ) has been a very popular model. It is built to drive a pivot pin into the ground through a base plate. The wheel is then placed on this pin, and the wire is set onto the wheel.



The wire is kept centered on the wheel by adjusting the three arms to fit the wire coil's diameter. There are three separate positions for the arms, which allow you to unwind many different diameter coils.

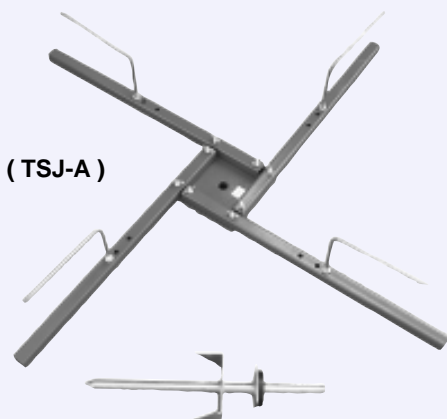
Rewind Hoop and Crank Handle to fit onto the (TSJ-HH) Spinning Jenny FOB (TSJ-RH) \$35.00



The Wire Winding / Unwinding Machine (TWWR) with hand crank is no longer in production. Kencove hopes to have a solution soon.

Spinning Jenny with spring brake & stand FOB (TSJ-HH) 75.00

The braked (TSJ-HH) Jenny features an adjustable brake to control over-spin when you stop pulling the wire. This jenny may be placed flat on the ground or bolted to a cart or truck bed. The 4 legs in the base give good stability. The 4 arms will adjust to fit many diameter coils.



(TSJ-A)

Imported Non Wheel Spinning Jenny w/ pin & 4 arms FOB

(TSJ-A) \$38.00

The low cost (TSJ-A) Jenny pivots on a pin that has been driven into the ground. This jenny doesn't have the round wheel on the end of the 4 arms that carry the wire. This imported jenny ships unassembled in a fairly compact box.

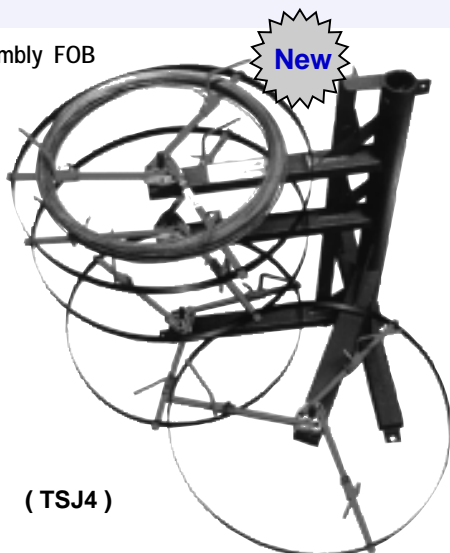
Donalds Non Wheel Spinning Jenny, heavy duty FOB (TSJD) \$84.00

Will adapt for unrolling coated wire & rail. It has long L bolts so it can adjust to a much larger height and fuller coil. This jenny is easy to fold for storing or transporting. Three legs mean there is no wobble on the ground.



Robertson Quad Wire Jenny Assembly FOB (TSJ4) \$677.00

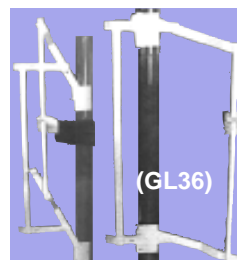
Unwind 4 coils of wire at one time! The top 3 coils swivel to the side for easy loading. This can easily be adapted to mount on a 3 point hitch, pickup truck, heavy duty ATV, or trailer for an ATV.



(TSJ4)



NEW! Cam Lock Gate Latch



60" Cam Latch Gate FOB (GL60) 55.00
36" Cam Latch Gate FOB (GL36) 55.00

for tightening and latching flexible gates made from your woven fence wire. This latch is bolted to the post. Loop the wire to a pipe. This has 2 hooks that catch the pipe. Use the 60 inch unit for the 8 foot wire.

WOVEN WIRE FENCE - HORSE, LIVESTOCK, DEER, ...



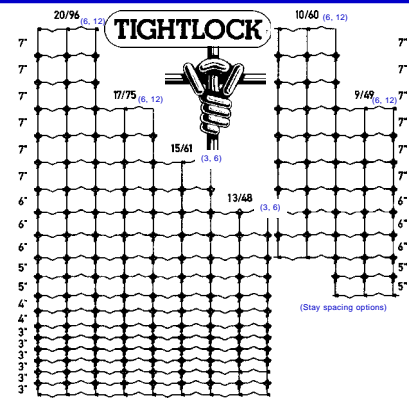
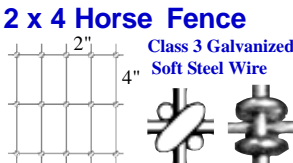
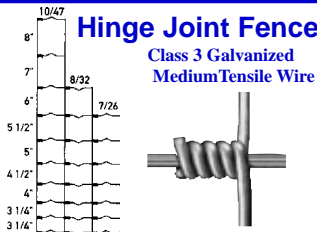
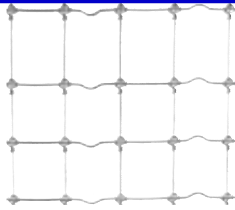
SOLIDLOCK
The World's Best
Fencing System

3" STAY SPACING

3" STAY SPACING

Introducing the safest fence available! With 3" between the verticle wires this product greatly improves predator control and livestock safety. Your high value livestock will be safe and secure surrounded by the Solidlock fence.

4 foot Solidlock/Tight 13/48/3 200 ft roll 234 lb FOB (WDN13-3) 218.95
5 foot Solidlock/Tight 15/61/3 200 ft roll 280 lb FOB (WDN15-3) 265.95



Please phone for quotes on large orders and to be sure prices are current.
5% Off on 6 roll orders of same size; \$15 will be charged per pallet used to ship LTL.

NEW -5% 6 roll; -10% 10,000 lb.; -12.5% 20,000 lb.; -15% 45,000 lb.; FOB Blairsville, PA

10 foot LockedKnot 23/120/6 330 ft roll 492 lb. FOB (WDN23-6) 435.95
8 foot LockedKnot 20/96/6 330 ft roll 393 lb. FOB (WDN20-6) 319.00

Special! WDN20-6L low as \$257.55 FOB AR plant; cash prepaid

8 foot Solidlock/Tight 20/96/12 330 ft roll	282 lb. FOB	(WDN20-12)	234.00
8 foot Solidlock/Tight 20/96/12 660 ft roll	564 lb. FOB	(WDN20-12660)	468.00
6 foot 3 inch Solidlock/Tight 17/75/6 330 ft roll	326 lb. FOB	(WDN17-6)	277.00
6 foot 3 inch Solidlock/Tight 17/75/12 330 ft roll	248 lb. FOB	(WDN17-12)	203.00
5 foot Solidlock/Tight 15/61/6 330 ft roll	273 lb. FOB	(WDN15-6)	270.00
5 foot Solidlock/Tight 10/60/12 660 ft roll	287 lb. FOB	(WDN10-12660)	275.00
4 foot Solidlock/Tight 13/48/6 330 ft roll	216 lb. FOB	(WDN13-6)	200.00
4 foot Solidlock/Tight 9/49/6 330 ft roll	177 lb. FOB	(WDN9-6)	176.00
4 foot Solidlock/Tight 9/49/12 330 ft roll	126 lb. FOB	(WDN9-12)	107.50
4 foot Solidlock/Tight 9/49/12 660 ft roll	251 lb. FOB	(WDN9-12660)	215.00
3.5 foot Solidlock/Tight 8/42/6 330 ft roll	157 lb. FOB	(WDN8-6)	158.00

If you need a more secure, nonelectrical fence, consider using a tightlock knot H-T woven wire fence. This high strength, long life fencing was originally developed for raising deer in New Zealand, but it works great as a long life and low cost cattle fence. The 9/49/12 (9 line wire / 49" high / 12" vertical stay wire spacing) is much quicker to install and lower cost because you can go up to 40 feet between line posts. Class 3 galvanizing means 20 to 40 year life is likely. When you consider the savings in the cost of posts (including installing them) and the long, rugged life of the wire, this can be your lowest cost option. You can have a great sense of security without having to constantly maintain the electric. It is still good to use a few strands of electric but it's not required. Kencove is a major distributor of both Bekaert TightLock™ and Solidlock™.

Solidlock / Tightlock Deer, Game, Livestock and Exotic Animal Fence is available in a number of heights: the 49 inch has 9 (cattle) or 13 (sheep) horizontal wires, 60 inch has 10 (bison) or 15 (ostrich) horizontal wires, 75 inch has 17 (interior deer and elk) horizontal wires and the 96 inch has 20 (deer and elk) horizontal line wires. Vertical stay wires are available in 6 or 12 inch spacing. Kencove mainly stocks this wire in our PA location. This fencing is ideal for fencing alternative livestock breeds like Deer, Elk, Bison, Llama, or Ostrich. Damage to crops, gardens and shrubs can be very frustrating and expensive. Savings from positive, nonelectric, deer control may pay for this fence in a very short time.

A complete line of related products and tools for ease of installation is also available. These include steel strainer clamps (bars) for tensioning and chain grabs with 20 foot chains and hooks for pulling the strainer bars. These products will also do a superior job when working with regular woven wire fencing.

A video guide to installation (RWV) is available. This is a professionally filmed recording and has useful information if you will be installing woven wire fencing.

Kencove has recently started stocking medium high tensile, Class 3 galvanized woven wire to give you a lower cost option. This still has much longer life than standard woven wire. You can also put fence posts farther apart since the wire has more rebound.

NEW! The Horseman™ Fence, with a Class 3 galvanizing, has just come onto the market. The 2" wide spacing on the vertical wires is held with a special "S" shaped knot wire. The vertical wires are uncut from top to bottom. Why waste future time and money with poorly galvanized wire?

Kencove has a number of clearance sizes at discount. Please phone to check stock. Here are some sizes: 8/42/12 8/42/12/660' 10/60/6 17/96/12 17/96/12/660' 17/96/6
\$97.29 \$194.58 \$201.25 \$188.15 \$376.30 \$273.60

HINGE JOINT WOVEN FENCE, Class 3 Galvanized Medium Tensile Steel Wire

HingeJt 12.5 ga MT T3 galv 10/47/6 330 ft roll	186 lb. FOB	(WH10-6-12.5)	135.00
HingeJt 14.5 ga MT T3 galv 10/47/6 330 ft roll	115 lb. FOB	(WH10-6-14.5)	85.00
HingeJt 12.5 ga MT T3 galv 8/32/6 330 foot roll	135 lb. FOB	(WH8-6)	99.95
HingeJt 12.5 ga MT T3 galv 7/26/6 330 foot roll	115 lb. FOB	(WH7-6)	93.50

NEW! 2" X 4" WOVEN HORSE FENCE, Class 3 Galvanized Soft Steel Wire

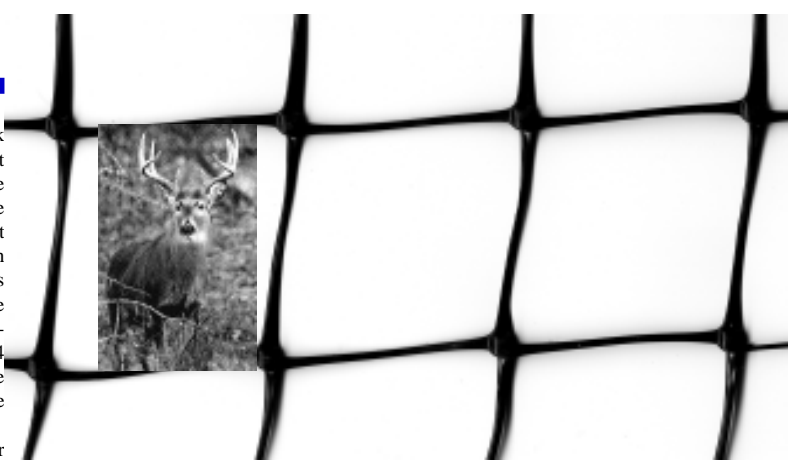
2 x 4" Horse Fence sJt 12.5 ga T3 galv 48" 100 ft	122 lb. FOB	(WH4)	109.50
2 x 4" Horse Fence sJt 12.5 ga T3 galv 48" 200 ft	244 lb. FOB	(WH4-200)	218.95
2 x 4" Horse Fence sJt 12.5 ga T3 galv 60" 100 ft	151 lb. FOB	(WH5)	135.50
2 x 4" Horse Fence sJt 12.5 ga T3 galv 60" 200 ft	302 lb. FOB	(WH5-200)	265.95



ACCESSORIES

4 ft Wire Clamp with 5 wedges - For pulling woven wire	FOB (TSC-4)	110.00
5 ft Wire Clamp with 6 wedges - For pulling woven wire	FOB (TSC-5)	117.50
6 ft Wire Clamp with 7 wedges - For pulling woven wire	FOB (TSC-6)	125.00
8 ft Wire Clamp with 9 wedges - For pulling woven wire	FOB (TSC-8)	135.00
10 ft Wire Clamp with 11 wedges For pulling woven wire	FOB (TSC-10)	175.00
Replacement Wedge - For the above wire clamps	FOB (TSC-W)	8.50
Hayes Clamp Strainer Chain Grab with 20 ft chain	(TCS)	115.00
Robertson Clamp Strainer Chain Grab Walker	(TCS-R)	105.00
Hand Wrap Tool - extra short for the close spaced openings	(TWTL)	1.25
Power Wrap Tool - electric drill powered wire twister	FOB (TWTG)	295.00
Tightlock Introduction and Installation Video	Free Shipping (RWV)	10.00

PLASTIC DEER NET



A relatively easy way to keep deer out of gardens and shrubs is to hang our black stretched polypropylene netting (New smaller openings - 1.9" x 1.9" mesh) on light and easy to install fiberglass or steel posts. Pound in the posts every 10 to 15 feet. Use nylon cable ties (8"=\$6/100) to fasten the net to the post. If the ends and corners are strong, a high tensile steel wire at the top, middle and bottom of the fence will support the nylon net to allow wider post spacing with a neat appearance. If you have enough trees (no more than 35 feet apart), posts may not even be needed. If there are no trees at the ends and corners, a simple to install brace assembly using steel T posts can be used. Ground staples may be used every 12 feet to keep deer from pushing underneath. It is good to add visibility for the first month or two with fence flags (MFF) 4 foot high or white electric ribbon (RWR) 3 foot up. After this time the fence will be virtually invisible in vegetation. If you use peanut butter bait on an electric fence (wire, twine, or ribbon), that may be all the fence you need.

This net also is a good product to strengthen an electric 5 or 6 wire 5 foot deer fence. Since the net is not a conductor, just hog ring or nylon tie it right to the high-tensile steel wires. These nets do not have a lot of strength. If a deer runs into the net, it may go through. Since it is plastic, this is a relatively short life product.

PRICING

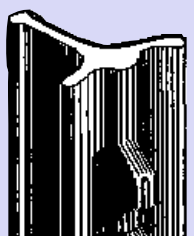
Plastic deer net 5' 4" x 150'	FOB	(DN313A)	59.00
Plastic deer net 6' 4" x 300'	FOB	(DN313H)	145.00
Plastic deer net 8' x 150'	FOB	(DN313C)	93.00
Plastic deer net 8' x 300'	FOB	(DN313D)	186.00
Ground staples 11 gauge wire 6" legs 250 ea	FOB	(DGS)	17.50
8" Nylon Cable Ties, pk of 100	FOB	(DN121G)	6.00
8 gauge Nylon Wire, Black, per foot	FOB	(DW152)	.16
Gerrard Hog Rings, box of 1,000	FOB	(CHR)	19.00
Gerrard Automatic Hog Ring Gun	FOB	(THG)	98.00

HOT DIP GALVANIZED T-POSTS

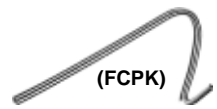
Kencove has several sizes of very affordable **Hot Dip Galvanized**

"T" Posts. Eight foot game fence installation costs can be lower while maintaining long fence life. In good ground you can put 12' wood posts up to 100' apart with 4 galvanized "T" posts in between. With shorter high tensile woven fence it is possible to go even farther between posts. The life of galvanized wire will be shortened if you use a non galvanized "T" Post.

Hot dip galvanized T Posts FOB Clips sold separately		
1.25 pound/foot to 10 feet		
5 Foot Galv T Post with stabilizer plate (PHDT5P)	3.50	
6 Foot Galv T Post with stabilizer plate (PHDT6P)	4.20	
7 Foot Galv T Post with stabilizer plate (PHDT7P)	4.90	
8 Foot Galv T Post with stabilizer plate (PHDT8P)	5.60	
10 Foot Galv T Post with stabilizer plate (PHDT10)	7.00	
1.33 pound/foot to 12 feet		
10 Foot Galv T Post with stabilizer plate (PHDT10P)	9.70	
11 Foot Galv T Post with stabilizer plate (PHDT11P)	11.10	
12 Foot Galv T post no plate (PHDT12)	12.31	
12 Foot Galv T Post with stabilizer plate (PHDT12P)	12.50	
Steel T Post Clip, Priced Each, 25 per bag (FTC)	.04	



BATTENS & TWIST STICKS



😊 15% Price Drop!



Hollow grooved poly-battens are available through Kencove. Similar in design to the wooden multi-groove batten, these offer superior insulation and extra long life. Clips are needed for proper installation. The (PKD) has a rounded backside and takes a special clip.

Poly-Dropper Multi grooved 4 feet FOB (PKD) 2.95
Clips for (PKD) Poly-Dropper, pack of 100 FOB (FCPK) 6.50

Fiberglass rods (see page 32), which offer better insulation and are easier to ship and install, are recommended in place of wood battens. Kencove no longer stocks wood battens, but we do have some batten clips.

Wire Clips for Wood battens 1½ inch face 100/pk (FCI) 6.75

Wire tighteners like the (SDS) can replace **twist sticks**. Another low cost alternative to the twist stick is to use a chain grab wire tightener to tighten the diagonal brace wire. Then use a wirelink, wirelok or your crimping tool and three sleeves to fasten the ends together.

Twist Stick CCA Wood FOB (PTA) .80

T-POST DRIVER / PULLER

- Pulls posts easier than traditional pullers
- Reverse hammer action breaks posts free
- Internal slide driver reduces injury.
- Hardened alloy steel surfaces for long life
- No damage to post or post top
- Ideal for tall posts - keeps posts straight

Steel T Post Driver/Puller (TPDP) 195.00



WARNING..WARNING..WARNING..WARNING

CCA and Creosote should be handled with care. Wash exposed skin areas thoroughly after contact, and before eating, drinking or using tobacco products. Toxic chemicals may be produced as part of the smoke or ashes when burning treated wood. Wear a dust mask, gloves, goggles, and hearing protection when driving or sawing treated wood posts. Laundry work clothes that may have accumulated preservatives or treated sawdust before reuse; wash separately from other household clothing. Hazard warnings for untreated wood are similar to those for treated wood.

- Airborne wood dust can cause respiratory, eye and skin irritation.
- Breathing excessive amounts of treated or untreated wood dust has been associated w/ nasal cancer in some industries.
- Handling may cause splinters.
- High levels of airborne wood dust may ignite and burn rapidly in the air if exposed to an ignition source.
- Some forms of components of the liquid preservative used to manufacture this product (arsenic and chromium) have caused lung, skin and possibly other cancers in humans occupationally or environmentally overexposed.