



ELECTRIC FENCE SYSTEMS

**QUALITY EQUINE
ELECTRIC FENCING PRODUCTS**



**A PRACTICAL GUIDE TO ELECTRIC FENCING
FOR HORSES AND PONIES**

www.jvasecurity.com



Frequently Asked Questions

1. Is electric fencing legal?

There is legislation relating to electric fencing and provided it complies with the legislation, electric fencing is 100% legal. So, make sure that the energizer purchased has a valid Certificate of Compliance (COC) and a Letter of Authority (LOA), that the earth is as per Q9 below, and if the energizer is installed in an urban area, that its energy output is below eight joules, (see Q8 below). These are some of the most important clauses.

2. How safe is electric fencing for horses?

Modern, pulsed, high-powered electric fencing is very safe for both horses and humans as long as the system is correctly erected and energizers used comply with strict international manufacturing standards. JVA Energizers are sold in over ninety countries around the world and no fatality has ever been recorded by anyone using a JVA Energizer - a safety record of which even NASA would be envious.

3. How effective is electric fencing?

Electric fencing for horses is very effective and economical. However it is important that one understands the basic principles of current flow, (see opposite page), to reap the full benefits. The importance of good earthing cannot be overstressed.

4. Do I need to train my horses to electric fencing?

All animals need time and space to learn about electric fencing. Do not confine your horse in too small an area when introducing it to an electric fence. The first shock a horse experiences can be quite traumatic for a highly strung animal and it needs space to back off. However, once bitten, twice shy, and they will avoid the fence in the future.

5. Won't electric fences affect the future performance of my horses?

There is no evidence, over the past fifteen years since horse tape has been used, that horses who need to clear obstacles in their working lives, start refusing to do so. The painful shock is associated only with the tape.

6. How does an electric fence work?

An electric fence can best be described as a psychological fear barrier. It works on the principle of giving an animal a short, sharp, painful, yet safe shock that is sufficiently memorable for the animal touching it not to forget. Horses, being intelligent animals, learn very quickly that their perimeters are hostile and to respect and avoid electric fences.

7. Which energizer should I use?

For permanent tape fences, where mains power is available, one would use a mains powered energizer. The length of the fence will dictate the size of the energizer. For temporary or portable fencing, one would use a battery powered energizer. Solar panels can be used to charge the energizer batteries (See page 3 for available information on energizers).

8. How do I tell how powerful an energizer is?

An energizer's output energy is measured in *joules*. The higher the joule rating, the more powerful the energizer. Within an urban area, the law limits the energy output of an energizer to just eight joules under any load condition.

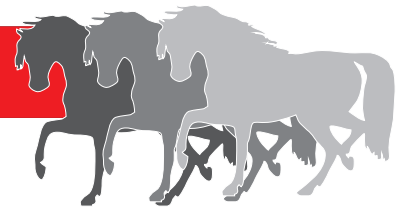
9. Having made my choice of energizer what is the next most important thing to bear in mind?

An electric fence is comprised of three things: the energizer, the earthing system and the fence itself. If any one or more of these is faulty, the whole fence will be ineffective. The one thing most often overlooked is the importance of good earthing. So having selected the energizer, make sure it is well earthed. For a permanent electric fence, the recommendation is 3 x 1,2m galvanized earth stakes at the energizer and additional stakes every 100m along the fence line.

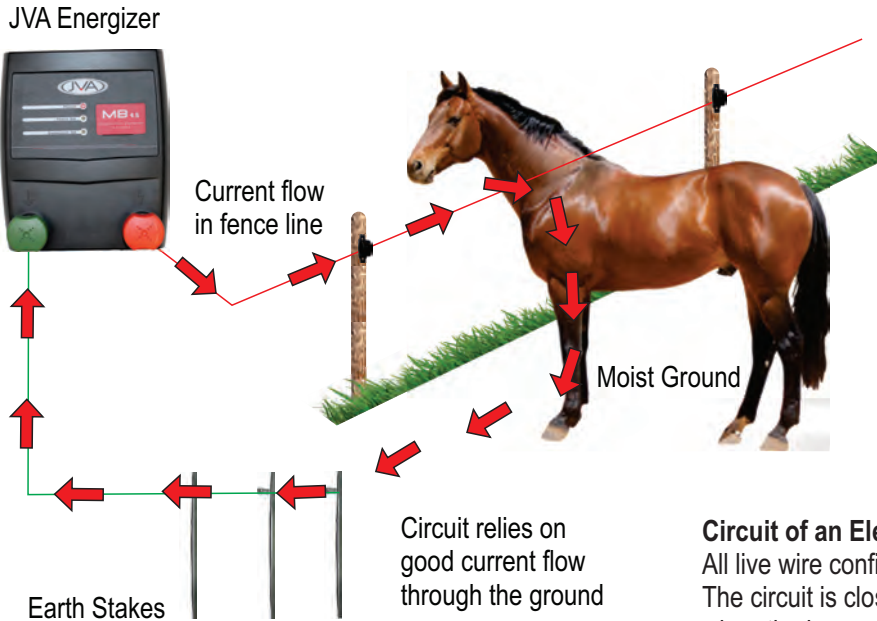
10. How many strands should I install?

The number of strands is dependent on the purpose of the fence. For internal subdivision fences on pasture, a single 12mm or 40mm tape should suffice. Where better control is required, two strands are recommended and for perimeter/stallion fences, three strands.

Circuit of an Electric Fence

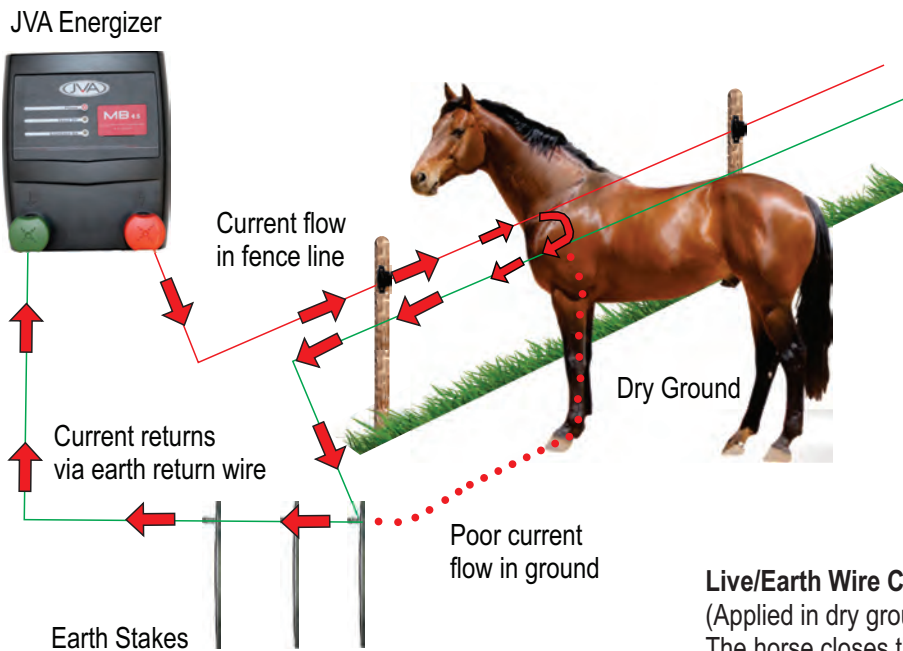


All Live Wire Configuration (Applied in moist ground conditions.)



Circuit of an Electric Fence
All live wire configuration. (Applied in moist ground conditions.)
The circuit is closed between the live wire and the ground when the horse makes contact with the live wire.

Live/Earth Wire Return Configuration (Applied in dry ground conditions.)



Live/Earth Wire Configuration
(Applied in dry ground conditions.)
The horse closes the circuit between the live wire and earth wire.



JVA High Power Agricultural LCD Energizers



JVA Mains/Battery High Power LCD Energizers

The NEW JVA High Power LCD (Liquid Crystal Display Screen) IP Energizers® are available in various models. The MB “XXL” is available in 32 and 24 Joules outputs and in one- and two-zone fence models. The MB “XL” Energizers are available in 16, 12 and 8 Joule outputs. The JVA IP Energizers® can be controlled from anywhere in the world using your mobile phone App.

All the units are ready to go out the box and can be paired to the JVA remote for added “from the fence” arming and disarming. Factory default settings can be changed through the use of the Virtual Keypad programming ability from a smart phone. All units can communicate through Wi-Fi to the JVA Cloud Router. Cloud router allows multiple energizers and sites to be monitored and controlled from one platform from anywhere in the world.

JVA LCD Energizer Range Features:

- Mains powered 110V/240V or
- Battery powered 12V/25V
- High Joule Power on demand
- JVA Remote Compatible
- IP Energizer Cloud Management
- Free Cloud Router APP - no monthly charges
- LCD showing KV, Battery Voltage, Amperage and Stored Energy in Joules
- Auto-Sync™ safety technology
- Solar capability
- Smooth Pulse Wave shape
- Overload indication (Audible and Visible)
- Lightning protection
- Reverse battery protection
- Self-resetting fuse
- Low battery indication
- Over discharge battery protection
- Battery life maximization
- Battery voltage measurement
- Ant and Moisture protection
- UV Stable enclosure
- Audible alarm
- Bi-Polar output
- 3-year Warranty



JPTE2440

JPTE2441

Virtual Keypad Programming via Smart Device when in proximity to the MB LCD Energizer



JPTE2442

JPTE2443



	MB 25	MB 25	MB 32	MB 32
	SINGLE	DUAL	SINGLE	DUAL
Stored Joules	35J	2x17.5J	46J	2x23J
Energy Output	24J	2x12J	32J	2x16J
Power Consumption at 13.5dc	2.5A	2.5A	3.6A	3.6A

JVA LCD Range



JVA8

JVA12

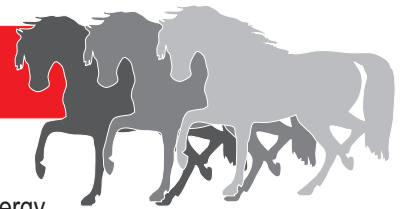
JPTE2160B



Cloud Router APP

	MB8	MB12	MB16
Stored Joules	11J	16J	22J
Energy Output	8J	12J	16J
Power Consumption at 12.5Vdc	0.9 A	1.25 A	1.6 A

JVA High Power Agricultural LCD Energizers



JVA MB Mid-Range Battery and Mains LED Energizers

The MB1.5, MB3 and MB4.5 Electric Fence Energizers deliver between 1.5 and 4.5 Joules output energy per pulse. Their innovative design means you can have versatile portable power from a 12V battery when needed, or run it from 240Vac mains electricity where that is available. Optional JVA Solar Kits and external batteries are available.

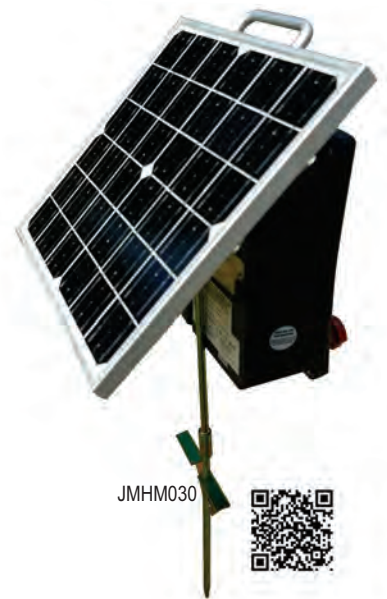


	MB1.5	MB3	MB4.5
Stored Joules	2J	4J	6J
Energy Output	1.5J	3J	4.5J
Power Consumption at 12.5Vdc	0.15A	0.3A	0.5A

LCD Display

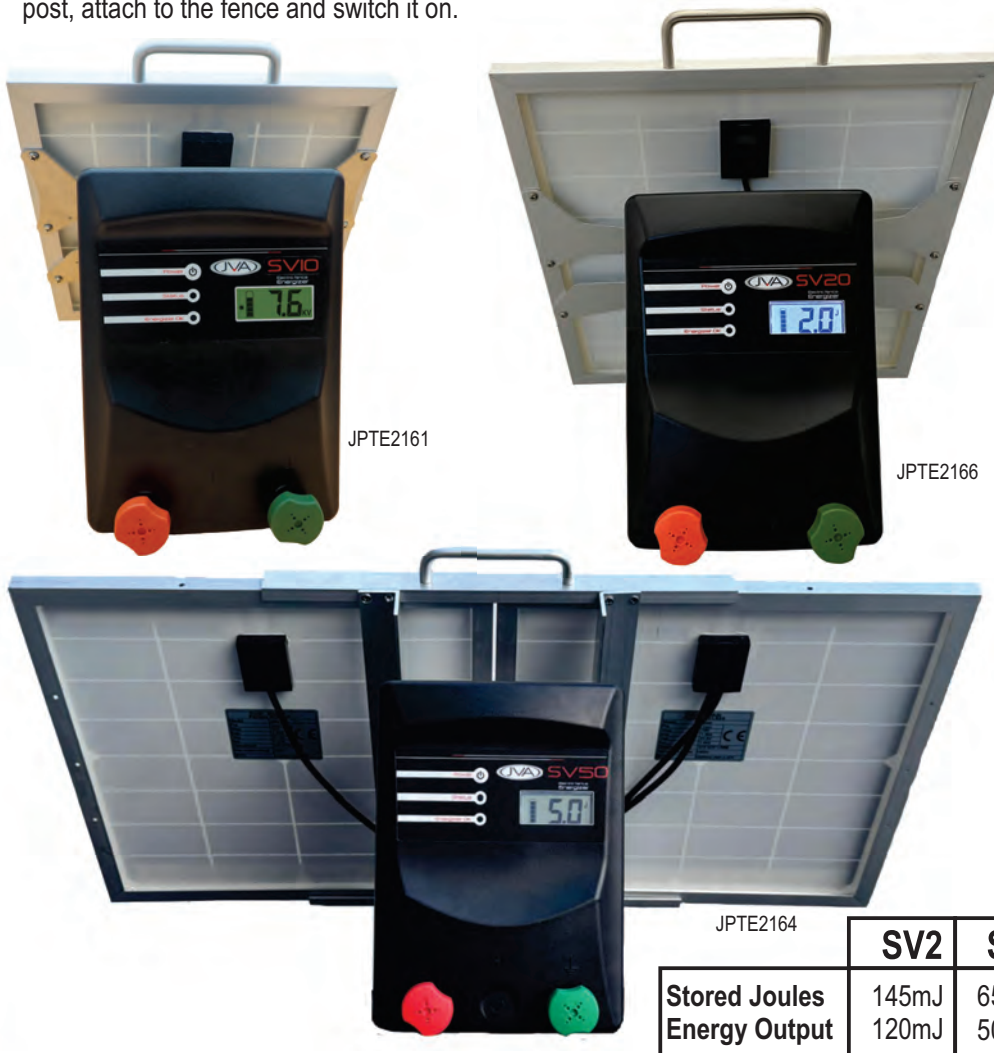


- Larger screen display
- Battery voltage
- Joules output
- Voltage on fence



JVA LCD Solar Energizers

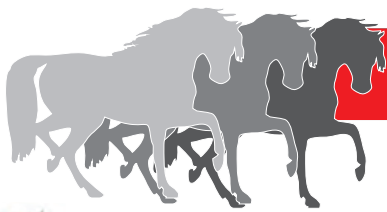
JVA offers a range of Solar Powered, Electric Fence Energizers which are ready to operate straight out of the box! A reliable built-in rechargeable battery and integrated solar panel means JVA Solar Energizers are totally portable, with no need for extra batteries and hardware. Just slide the energizer onto a support post, attach to the fence and switch it on.



JVA Solar Energizer Features:

- Quality crystalline solar panel and internal battery
- Front panel On/Off switch and LED pulse indicator
- Low Battery indication
- Large easy to use fence terminals
- Easy mounting on top of a Y-standard or U-bolt to a pole
- Sealed for ant and moisture protection
- On the SV5 up to the SV50 a LCD shows fence voltage, stored energy and battery voltage
- Auto-Sync technology for safer fences
- Internal lithium battery included.

	SV2	SV5	SV10	SV20	SV30	SV50
Stored Joules	145mJ	650mJ	1.1J	2.9J	4.2J	6J
Energy Output	120mJ	500mJ	0.8J	2.4J	3.3J	5.2J



Equestrian Accessories



Pivot Gate

Allows free movement of centre pivot wheels through electrified fence camps



Intermediate Horse Tape Insulator

- This insulator can either be nailed or stapled to wooden posts or it can be pop-riveted to metal posts.
- The intermediate horse tape insulator is suitable for both the 40mm and 12mm tape as well as the 6mm Polirope.



JVA Corner Strain Insulator

- This robust, unique, versatile, easy-to-install, multi-faceted strainer/corner insulator can be nailed or stapled to a wooden strainer post or pop-riveted onto a metal strainer post.
- It has 3-way straining capabilities and is ideal for corners and angles.



Ring Insulator HD
Ideal for tape and rope

S922
S922-1.5M

Pigtail Tread-In

- Available in 1.2m and 1.5m
- Large foot for ease of placement
- 6mm spring steel
- Ideal for strip grazing cattle
- Durable crimp foot design



Wide Clip Nail-On

Suitable for 8mm Polirope and 12mm Tape



Intermediate Corner Insulator

This robust, unique, versatile, easy-to-install corner insulator can be nailed or stapled to a wooden strainer post or pop-riveted onto a metal strainer post.



N560-TUB

Equestrian Insulator Screws
4x38mm Pozi
Chipboard – 250/tub



JVA Horse 3-way activator plate

Used in conjunction with end/corner strain and gate handle, to complete the current when the gate handle is connected



Activator Clip



REINFORCED STEEL STIRRUP

Heavy-Duty Plastic Tread-ins

- Stafix plastic tread-ins are ideal for temporary fencing and can be used with plastic tapes, wire or rope
- Each tread-in has positions for 12mm or 40mm politape or 8mm polirope or poliwire
- The tread-ins are available in 1.2m (cattle and sheep) and 1.5m lengths (horses)



12mm Tape Buckle

Used to attach tape to strainer insulator and in electric tape gates



40mm Tape Buckle

Used to attach tape to strainer insulator and in electric tape gates



12mm Politape

(12mm wide/200m rolls)

Ideal for temporary subdivision of camps or for the second strand on a permanent 40mm tape fence.



12mm / 40mm Tape Joiner

An aluminium buckle used to join tape



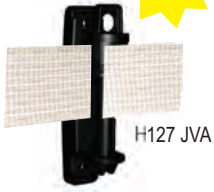
40mm Horse Tape

(40mm wide/200m)

Available in white, green or brown, these highly visible UV stabilized tapes are ideal for electric fencing permanent or temporary horse paddocks.



NEW



40mm Tape Intermediate Tensioner

Easy retro-fittable, spring loaded, ratched tensioner that can be installed anywhere along the horse tape to easily take up and maintain tension.

NEW



Equine Warning Sign

One sided print, light duty warning sign designed with 3 clips to easily attach to 40mm horse tape; designed for minimal wind interference



Ultra Heavy Duty Value Reel

The heavy duty galvanized steel frame structure with glass fibre reinforced nylon bobbin makes this reel tough for the hardest conditions 1:1 ratio



Ultra Heavy Duty JVA Geared Value Reels

The heavy duty galvanized steel frame structure with glass fibre reinforced nylon bobbin makes this reel tough for the hardest conditions. Available in 1:3 geared ratio. (One rotation of the handle gives three rotations of the spool.)

N734S - 50m
N730S - 100m
N733S - 200m
N732S - 1000m



HT Cable Soft, Slimline

Flexible and easy to work with
Available in 50m, 100m, 200m and 1 000m

N734H - 50m
N730H - 100m
N733H - 200m
N732H - 1000m



HT Cable — Hard

Strong and robust, ideal for under gates
Available in 50m, 100m, 200m and 1 000m



Spring Gate Kit



Tape Gate Kit



Bungy Cord Gate Kit

- Consists of multi-stranded latex core and UV resistant sheath, for easy, quick assembly of electric gates
- Four stainless steel wires for maximum conductivity
- Wires cross over 10 times per centimetre for maximum shock exposure
- Heavy duty gate components included
- Standard length 3.5 – 7m



Heavy Duty Compression Gate Break Handle

- Strong robust body
- Positive non-slip grip
- High tensile, heavy-duty spring compresses under tension, preventing over stretching
- Fully galvanized

Value Reel and Stand

- The galvanized value reel holder can be attached to a stand
- Ideal for temporary and movable horse camps
- The reel holds 200m of 12mm/40mm tape or 500m of poliwire
- The reel has a ratchet for superior tension control



NEW



Horse Post Insulator

Insulator designed to fit over all common steel Y-posts



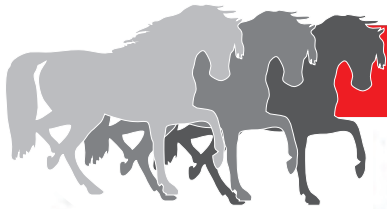
Spring Gates

Available in Galvanized Steel or Powder-Coated white; used for 3,5m cattle and horse electric gates



6mm and 8mm Poliropo

(6mm/ 8mm wide/200m rolls)
Poliropo is also suitable for second stranding a 40mm tape permanent fence for making electric gates.



Equestrian Accessories



40mm Y-standard Insulator

H126

NEW



S9110



S911W

Poliwire

An economic choice for temporary fencing, featuring stainless steel conductors and UV stabilized yarns; available in white or orange in 200m or 500m rolls.



SU9400R

Ultra Poliwire

The visible, 9-conductor, low resistance, UV stabilized, 2.5mm poliwire, is portable, tough and ideal for long distance electric fencing of temporary paddocks.



S915PU

Ultra Polibraid (red and white)

A stronger, more durable 2.5mm braid combining 6 stainless steel strands with 3 tin-coated copper strands. Offers improved conductivity for long distances. Suitable for permanent or high-demand applications. Available in 400m rolls. Resistance: 180 Ohms/km.



S915PB

Polibraid (black and white)

A strong, durable 2.5mm braided polymer with 9 stainless steel strands. Suitable for more permanent or demanding applications. Ideal for intensive strip grazing with reels. Available in 400m rolls. Resistance: 5000 Ohms/km.



N735-8KG



N735-5KG

Braided Wire

High tensile, low resistance: available in 1.2mm, 1.5mm and 2mm Galvanized. Resistance of 135 Ohms/km.



N738

High Strain Steel Wire

Full range available in Double Galv. Steel
2.24mm 50kg 1650m
Resistance of 30 Ohms/km.
2.00mm 50kg 2000m



S914OR

S914WR

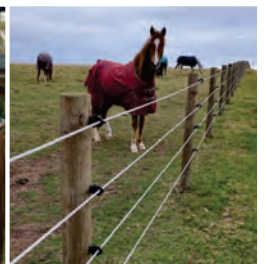
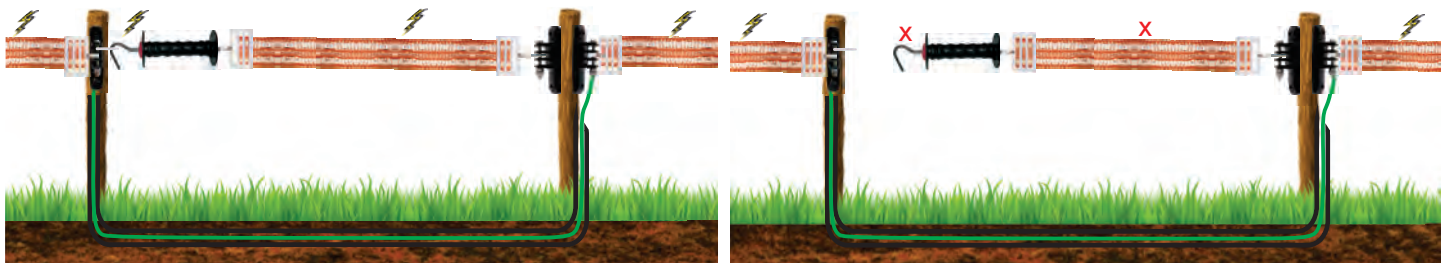
10mm Gate Polirop

Made from eight standard Poliwire strands braided into a strong, highly visible rope with a 10mm outer diameter.

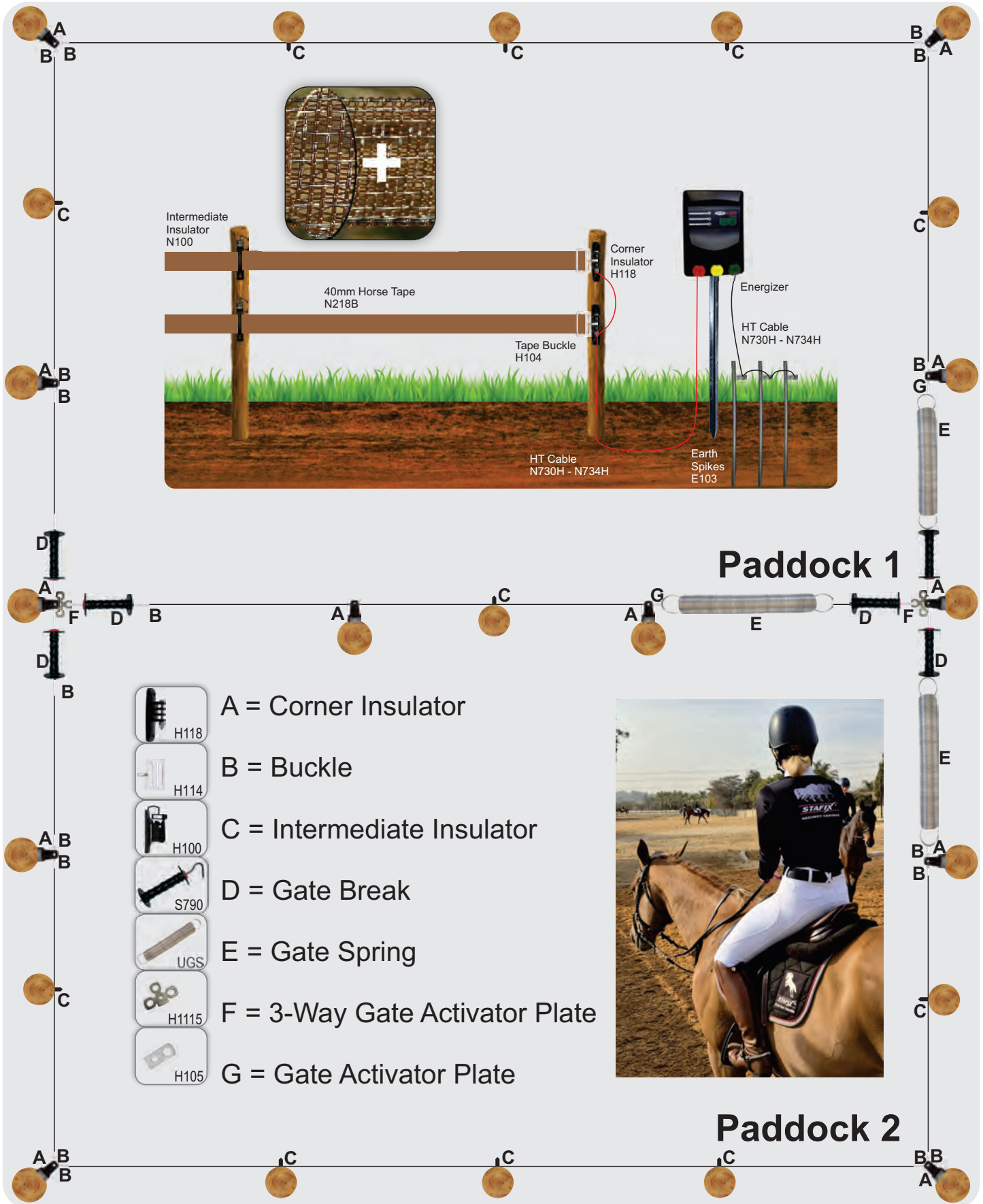
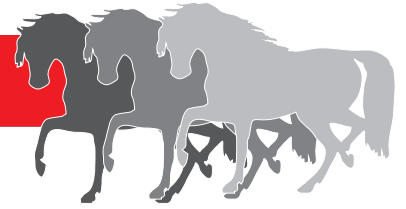
Can easily be looped back into itself (similar to a ski rope), allowing for strong, visible cattle gates without the need for joiners or clamps.

Simply loop around the gate handle or Jumbo Strain and thread the rope back through itself. Available in 100m rolls in white and orange.

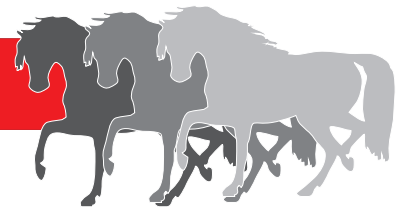
Agricultural Gate



Paddock Schematic



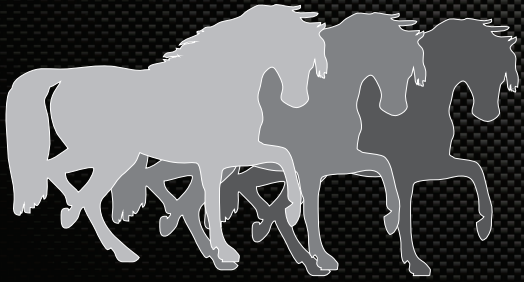
Quotation Template



Fence Estimate

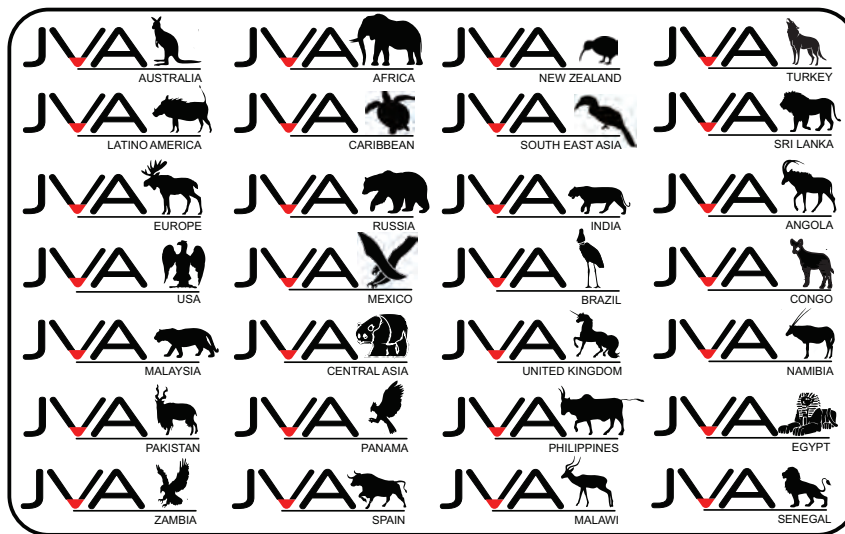
Fence Specification: Equestrian

Quantity	Item Code	Description	Unit Price	Net Amount	Vat%
		Energizer System			
		Energizer			
		Battery			
		Solar Panel			
		Undergate Cable			
		Earth Spike			
		40mm Tape Fence			
		200m 40mm Horse Tape			
		Corner Insulator with Bolt and Nut			
		Corner Tape Insulator			
		Intermediate Insulator			
		Tape Buckle			
		Tape Joiner			
		12mm Tape or Polirope Fence			
		200m/500m Polirope			
		200m 12mm Politape			
		Intermediate Nail-On Insulator			
		Jumbo Strainer			
		Maxi Tweaker			
		Gates			
		Gate Handle			
		Activator			
		Three-Way Activator			
		Gate Spring /Tape/ Rope/ Bungji Cord			
		Buckle			
		Other			
		Reel			
		Reel Stand			
		1.2/1.5 Horse Tread-In			
		Horse Post Insulator			
		Fence Tester			
		Fasteners/Tex Screws/Nails			
VAT 15%	VAT AMOUNT		SUB TOTAL		
			VAT		
			TOTAL		



ELECTRIC FENCE SYSTEMS

QUALITY EQUINE ELECTRIC FENCING PRODUCTS



*JVA electronic products are proudly designed
and manufactured in Australia*



Australian Head Office

JVA Technologies Pty Ltd

ABN: 93 123 853 654

Add: 55 Kabi Cct, Deception Bay
Queensland, 4508

Tel: +61(0)7 3477 9955

Website: www.jva-fence.com.au

Email: sales@jva-fence.com.au

Skype: jva.technologies



African Head Office

Ndlovu Fencing Pty Ltd

Add: 219 Jet Park Road
Jet Park, Johannesburg

Tel: +27 011 397 3507

Website: www.jvasecurity.com

e-mail: swilliamson@jva-fence.com.au

Skype: slj.williamson



USA Head Office

JVA Monitored Fencing

Add: 4838 FM2001
Lockhart, Texas

Tel: +1 512 413 8661

Website: www.jva-usa.com

e-mail: billy@jva-us.com

Although the information presented in this product catalogue is believed to be accurate and reliable, no responsibility for inaccuracies can be assumed by Ndlovu Fencing. Performance data is typical only and variations owing to component manufacturing tolerances are normal.

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