

# Hotline

Electric Fencing



2020

## Introduction

Established in Devon in 1968 we have expanded our product range from the world's first '3 speed fencer' to one that has reliable products for every modern farm and smallholding.

We endeavour to maintain strong links with the electric fence user because this results in successful product development and happy customers. Approachability and flexibility are the two key attributes with which we approach customer service.

In an industry increasingly dominated by products originating from Asian or Eastern European manufacturers, we continue to have a reputation for a quality, British-made product.

After more than 50 years we know our customers are -

*Still safe behind hotline*



## New products



Safe behind



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# energisers

Mains or battery? Battery energisers are extremely portable and offer a range of options from 6v and 9v models with disposable batteries to 12v rechargeable models and solar options. As energiser power levels rise, it is increasingly difficult to draw power from battery alone while maintaining a practical battery life. Mains energisers have a greater pool of power to draw from so climb to greater power levels. Installation of mains energisers is often seen as impractical as many believe a power source is required adjacent to the fence. This does not need to be the case. Using HT lead (page 15) a mains energiser operates much like a battery energiser but with extra long earth and fence leads. HT lead operates just as an insulated, efficient extension of your fence line and can similarly be many metres in length. Mains energisers are also extremely cost effective to run.

## Guidance

**Voltage under load:** The fence line 'loads' the energiser and brings the line voltage down. The level at which this occurs is influenced by length of fence, the type of fence line and the amount of inefficiencies along the fence. Fences with greater metal content offer less resistance to the voltage per metre so represent comparably less load over a distance. Undergrowth touching the line completes the circuit drawing power to ground, increasing the load and reducing the effective voltage on the fence line. Wooden posts will also draw power to ground if touching the fence. When choosing an energiser, consider the application and the likelihood of extraneous conditions that may influence the fence. For instance; poultry netting is very close to the ground and susceptible to grass taking power to ground and thus loads the energiser heavily. The energiser required for this application must be much higher in joules than would be needed on most fences of comparable distance.



**Stored and output joules.** This is the level of energy the energiser produces and releases onto the fence line. Many energisers have similar voltage levels but the higher the joule the further the voltage will be pushed and the greater 'load' the energiser will effectively cope with.



**Consumption:** Your power source will be used more quickly depending on the power of your energiser. Lower joule energisers can be used in applications less likely to cause extreme loading and last longer periods. As the joule rating rises so does the consumption. The need for greater input voltage is required to get a workable battery life until batteries are insufficient to get high joule performance.



**Distance:** The estimated maximum distance the energiser will power. This figure is based on the use of the highest metal content fence line, such as high tensile wire, and assumes perfect fence conditions and suitable earth system (see page 26)



**Earthing:** We recommend a minimum of one 1m earth stake with all energisers (see page 26)



**Solar assist compatible:** see page 12



**Netting:** The estimated number of nets the energiser will power. Netting is relatively low on metal content and closer to the ground than other forms of fence so generally requires more power to achieve effective fence voltage. We have based our estimations on the practical experiences gleaned from our customers in the field rather than a theoretical figure. Netting can be separated into 2 base configurations, sheep for larger spaced netting and poultry for closely spaced netting.



**Warranty:** All energisers have a 3 year warranty. Warranty cards should be filled out and returned or alternatively visit [www.hotline-fencing.co.uk/warranty.aspx](http://www.hotline-fencing.co.uk/warranty.aspx) and fill out the online form.





## Shrike

Handy low powered energiser designed to hang on the fence line, post or earth stake. Operates from two standard D-Cell batteries (included) or from external 12v battery (not included)

- 3v internal battery input
- 12v external battery option\*
- Unique hanging case
- Charges up to 800m of fence
- On/off switch
- Internal batteries (Included)
- Pulse indicator



\*Lead for external 12v battery - Part: 47BL1

0.04J	0.03J	9.5kV	580V	18mA	0.8kM	0	0

## 2.5w Solar Panel for Shrike

Multi position 2.5w solar panel for Shrike energiser. 12v panel will power the energiser in bright conditions, extending battery life

## Harrier

Strip grazing energiser with internally housed battery (not included). Highly portable unit offering very good battery life.

- 6 & 12v battery input
- Internally housed batteries
- On/off switch
- High & low power settings
- Low battery indicator
- Rigid 4 prong stand
- Pulse indicator



0.06J	0.04J	6.2kV	1.5kV	18mA	0.6kM	0	0
0.1J	0.84J	7.8kV	1.6kV	28mA	1kM	0	0

## Centaur

9v mid powered energiser with internally housed battery (not included). Light and portable, suitable for a range of applications.

- 9v battery input
- Internally housed batteries
- On/off switch
- Low battery/pulse indicator



0.2J	0.14J	9.2kV	1.6kV	30mA	1.5kM	0	0



Part no.  
47HLB100



Part no.  
47SP2W-S

Part no.  
47HLB150



Part no.  
47C200

energisers

# energisers

## Super hawk

Strip grazing energiser with internally housed battery (not included). Highly portable unit offering very good battery life.

- 9 & 12v battery input
- Internally housed batteries
- On/off switch
- High & low power settings
- Low battery indicator
- Rigid 4 prong stand
- Pulse indicator



0.14J	0.12J	8kV	1.9kV	30mA	1.0kM	0	0
0.2J	0.18J	9.5kV	2.4kV	45mA	1.5kM	0	0



Part no.  
47HLB300

## Super Merlin

A 12v mid powered energiser with 6v internal battery back up.

- 6 & 12v input
- Single spike stand
- On/off switch
- Low battery/pulse indicator



0.44J	0.35J	10kV	3.3kV	45mA	2.2kM	2	0



Part no.  
47HLB25

## Super Hobby

Very popular single output, mid power 12v energiser. Good battery life, power balance.

- 12v input
- Single spike stand
- On/off switch
- Low battery/pulse indicator



0.6J	0.57J	12kV	4.0kV	65mA	6.0kM	5	1



Part no.  
47HLB50



## MB60

Medium power 12v energiser.

- 12v Input
- Pulse indicator
- Galvanised stand



0.6J	0.33J	10kV	4.3kV	85mA	5kM	5	1



Part no.  
47MB60

## Falcon

High power 12v energiser suitable for a wide range of applications where mains power is not available.

- 12v Input
- On/off switch
- High & low power setting
- Low battery/pulse indicator
- Rigid 4 prong stand



1.37J	0.96J	9.5kV	3.8kV	125mA	15kM	8	2
1.7J	1.4J	11.5kV	4.5kV	160mA	18kM	15	4



Part no.  
47HLB500

## Buzzard

High power 12v energiser suitable for a wide range of applications where mains power is not available.

- 12v Input
- On/off switch
- High & low power setting
- Low battery/pulse indicator
- Rigid 4 prong stand



1.6J	1.25J	8.4kV	3.5kV	160mA	20kM	8	3
3.2J	2.24J	11.5kV	4.9kV	320mA	25kM	20	6



Part no.  
47HLB525

# energisers



# energisers

## Fire Drake solar energisers

Medium power energisers with integrated high capacity solar panels. Many solar energisers are low in power and/or utilise solar panels which are inadequate to keep the battery charged. We have designed the Fire Drake energisers to operate at popular power levels, suitable for a range of applications, with panels carefully matched to replace the energy used while operating. Available in 0.25 or 0.5 output joule models, with 2.5, 5 or 10 watt solar panels. A battery charger is also included to help keep the battery charged during the winter months.

- 12v internal battery
- 2.5, 5 or 10 watt solar panel
- On/off switch
- Low battery/pulse indicator
- Battery charger



- HLS energisers can be mounted on 47ES3 and 47EST1 'T' section earth stakes and onto screws or bolts with washers for wooden and metal fence posts.

Part no.										
47HLS34	0.33J	0.25J	9.3kv	3.2kv	26mA	5w	7ah	2.5km	3	0
47HLS67	0.67J	0.50J	9.1kv	3.9kv	50mA	10w	12ah	5km	5	1

### Replacement batteries

For	part no.	Capacity
47HLS34	47L12-7	7ah
47HLS67	47L12-12	12ah



### Solar panel for Shrike energiser

The Shrike energiser has been one of our most popular units since its release, almost 20 years ago. It is the most portable unit in the range and runs from just 2 D-Cell batteries, which will power up to 800m of fence for 6 weeks.

Last year we gave it a face lift and added 12v external battery input to give the option of an even longer run time.

This year we are pleased to offer a 2.5w solar panel 'bolt-on'. When plugged into the 12v input on the Shrike, the panel will power the energiser during most daylight hours, prolonging the life of the internal D-Cell batteries. The small panel can be positioned in multiple ways to best take advantage of the sunlight.

Part	Capacity
47SP2W-S	2.5w




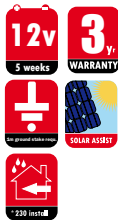









## Gemini dual input energisers

Gemini energisers will run from either a 12v battery or from a mains power supply, perfect for those wanting flexibility to move between a temporary, portable fence to a low maintenance mains system. Available in 0.8, 1.2 and 2.4 stored joule options.

- 220v mains input\* or
- 12v DC input
- Low battery/pulse indicator
- Galvanised stand

 \*HT lead required for mains installation



Part no.							
47HLC40	0.8J	0.45J	7.5kV	3.9kV	85mA	8km	5
47HLC80	1.2J	0.8J	8.2kV	4.2kV	125mA	12km	10
47HLC120	2.4J	1.2J	8.1kV	4.8kV	200mA	18km	15

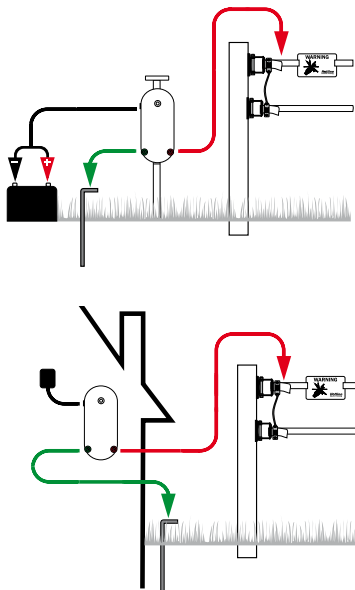


Diagram for illustration of dual connectivity only

# energisers

# RAPTOR

The Raptor energisers have been designed to offer the highest level of flexibility, quality and simplicity of operation. Raptor will operate from 12v external battery, 230v AC adaptor and from an internal 6v spring top battery. Our innovative three colour rotating LED relays information on the health of your fence system at a glance. All of these features are housed in a ABS case of unrivalled strength. Raptor is available in 0.2, 0.8 and 1.7 stored joule options.

- 6v internal battery input\*
- 12v external battery power input
- 230v mains input (via adaptor)
- Three colour fence performance monitor
- Low battery indicator
- Robust, heavy duty ABS case
- Galvanised steel stand
- Weatherproof switch



\*batteries not included

## Internal 6v battery back up

In addition to 12v external battery and 230v mains adaptor input, Raptor will operate from an internally loaded 6v spring top (PJ996) battery. The standard capacity battery, commonly used in domestic torches, is widely available in most supermarkets so offers an easily accessible emergency power source. The battery can operate as a reserve back up when charging your 12v battery or when unable to check your 12v battery status. When operating from the AC adaptor the 6v internal battery will serve as an emergency battery back up. Our high capacity version (see page 11) will operate as primary power source on the lower power models and give greater longevity in a back up situation.

Part no.								
47HLB80	0.8J	0.7J	8.1kV	4.3kV	107mA	8km	5	2
47HLB170	1.7J	1.3J	8.6kV	4.6kV	180mA	18km	15	4

## Fence performance monitor

The three colour rotating LED rotates with every pulse, showing how much effective voltage you have on the fence line. A central LED flashes red when your 12v battery is low or when the energiser is running from the 6v internal battery. If operating from the 230v adaptor and have a 6v battery inserted, the LED will indicate that the energiser is operating on battery back up.



note: the output power will decrease in 6v mode which may result in the LED changing colour. As with all aspects of an electric fence system, the energiser will perform at its best on a well maintained fence system

### 6V air alkaline spring top battery



6v 50 amp hour internal battery for Merlin and Raptor energisers



Ah	Part no.	
50	47PJ650	12

### 6V air alkaline battery



6v 40 amp hour battery for 47HLB150. Provides up to 15 weeks power.

Ah	Part no.	
40	47P44	12

### 9v saline & air alkaline batteries



9v (8.4 actual) batteries for 47HLB300 and 47C200 energisers

non re-chargeable

Ah	Part no.	
55	47P31S-55	6
90	47P32S-90	4
130	47P32S-130	4
165	47P32-165*	4

### 12v fit one - charge one



Twin, maintenance free 35ah leisure batteries with battery charger.

Package designed to allow one in use while one is on charge

Ah	Part no.	
35x2	47F1C1	2

### 12v AGM batteries



Maintenance free sealed for life, deep cycle 12v batteries.

Ah	Part no.	
36	47LS36	1
7	47L12-7	1
12	47L12-12	1

### 12v sealed batteries



Sealed wet cell deep cycle leisure battery

Ah	Part no.	
32	47L35	1
75	47L75	1
110	47L110	1

### Compact 4 amp battery charger



Battery charger for leisure batteries up to 48 amp hour.

for Ah	Part no.	
7-48	47BCF1	1

### Battery chargers



Automatic battery charger designed to charge deep cycle leisure batteries. Features LED display

Size	for Ah	Part no.	
3.6 Amp	1.2 to 120	47BCL	1
7 Amp	14 to 240	47BCP	1

packaging key



# solar panels

## Batteries

part no.	Battery (our part 47D-CELL)
47HLB100	D-cell consumer batteries
47HLB150	47P44 6v 40 amp hour disposable battery + 12v batteries
47C200	All 9v saline and alkaline disposable batteries
47HLB300	All 9v saline and alkaline disposable batteries + 12v batteries
47HLB25	12v batteries + 47PJ650
47HLB50	12v batteries
47MB60	12v batteries
47HLB500	12v batteries
47HLB525	12v batteries
47HLC40, 47HLC80, 47HLC120	12v batteries
47HLB20, 47HLB80, 47HLB170	12v batteries + 47PJ650

**12v batteries:** We recommend 12v leisure batteries for electric fence applications. This type of battery is designed to be repeatedly discharged and recharged rather than trickle charged like an automotive battery, within which the cells would begin to break down. All battery life figures quoted for 12v units are based on 75 amp hour batteries.

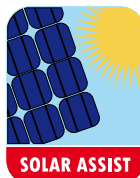
**Ah - Amp hour:** Greater amp hour figures indicate a longer battery life.

### How long will my battery last?

Take the Ah value from the battery and divide it by the consumption value (Amps - mA) of the energiser

For example - an energiser consuming a maximum of 28mA powered with a 9v battery with a capacity of 90Ah would be as follows - 90 (Amp hours) divided by 0.028 (Amps) = 3214 hours/133 days

## Solar assist panels



If you are tired of expending electricity and muscle power bringing your energiser batteries in to charge then solar power is your answer. We offer simple solar assist panels which connect directly to your 12v battery, extending the period between battery charges or cutting out the need for battery charges altogether.



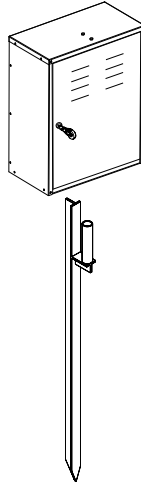
The level at which the panel will extend the life of your battery is dependent on the power of your fencer and the duration and strength of available light. The stronger the fencer, the more quickly it will draw power from the battery and the less time the panel has to replace the charge. The ability of the panel to produce and replace the energy used by your energiser is indicated by the watt capacity of the panel, so a 20 watt panel will replace the charge quicker than a 10 watt.

Dependent on strength of sunlight, the 10 watt panel will extend the battery life of a 0.5 joule fencer up to 400%, but to achieve an autonomous system higher watt panels can be used. The panels are fitted with a charge controller, to guard against overcharging but without over-charging the battery. Both panels are fitted charge controller to avoid overcharge and discharge of the battery. Panels are supplied with a sturdy mounting stand.

Part no.	Panel	Suggested paired energiser
47SP10W	10 watt	47HLB250, 47HLB450, 47MB60, 47HLC40/80/120, 47HLB20/80/170, 47HLB500.
47SP20W	20 watt	All 12v energisers
47SP30W-RS	30 watt	High powered 12v energisers



## Security box



Electrifiable security box. A galvanised metal security box for battery energiser and battery. Supplied with a strong 1m mounting/earthing stake and insulated key. Arm mount for mounting a solar panel on the top is also available.

Box internal dimensions  
W:45 D:27 H:54 cm

Part no.	item
47VP1	security box with stand
47MA1	solar mount for security box

## Kite

Single output mains energiser

- Wall mount
- Single output
- Pulse indicator



Part no.  
47CLM80

0.8J	0.45J	7.5kV	3.9kV	2w	8km	5	2
------	-------	-------	-------	----	-----	---	---

## Red kite

Single output mains energiser

- Wall mount
- Single output
- Pulse indicator



Part no.  
47HLM160

1.6J	1.4J	9.0kV	4.9kV	7w	20km	8	3
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# solar panels

Super Eagle

Dual output mains energiser

- Wall mount
- Dual output, high/low
- Fence load indicator



2.7J	0.6J	9.7kV	2.5kV	8w	10km	5	2	
2.7J	2.46J	9.7kV	5.5kV	8w	25km	20	8	



Part no.  
47HLM100S

Condor

Dual output mains energiser

- Wall mount
- Dual output, high/low
- Fence load indicator



4.2J	0.68J	9.8kV	2.6kV	9w	8km	5	2	
4.2J	3.6J	9.8kV	5.8kV	9w	30km	25	12	



Part no.  
47HLM400

Peregrine

High power mains energiser with dual high/low-output and fence efficiency indicator

- Wall mount
- Dual output, high/low
- Fence load indicator



5.7J	0.66J	9.5kV	2.6kV	10w	8km	5	2	
5.7J	4.2J	9.5kV	5.6kV	10w	40km	25	20	

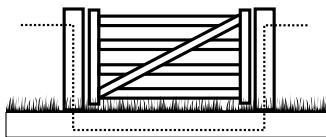


Part no.  
47HLM600

## Lead out cable - under-gate cable



HT lead is used to efficiently transfer power over distance or to continue power across spaces such as gates. The cable is in effect part of your live fence, like your tape, wire or net, but insulated to 18,000v to allow you to bury or run the wire without shorting. It is required when installing mains energisers.



## HT connector



Insulated waterproof connector for HT lead. Efficient splicing for HT lead for those wishing to take power for longer distances or extend existing lead out

	Part no.
1	47HTC1

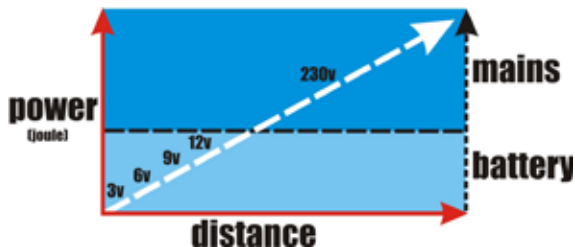


Length	Part no.
10M	47HT10G
25M	47HT25G
50M	47HT50G
100M	47HT100G
<b>2.5mm core</b>	
50M	47HT50G-2.5

## Further tips on choosing an energiser



Higher power energisers will fence longer distances but consume more energy. As consumption increases, larger batteries and mains power are required.



Higher power energisers can also help maintain effective voltage on inefficient fences. However, ensuring an efficient fence and using an energiser that delivers an appropriate level of power is the safer and cheaper option.

Less resistance on your fence line is akin to a wider tube allowing a better flow of water when compared to a narrower one

If your fence line is full of 'holes' (vegetation) less 'water' will be available to use.

Adding joules can be likened to applying pressure to the water to push it along the fence and past any 'holes'.



# energisers

## Phoenix mains powered energisers

The Phoenix range of mains powered energisers offer the traditional Hotline reliability paired with the most up to date electric fence technology. Available in two fixed joule models and an intelligent variable joule model, Phoenix incorporates an unparalleled level of function for a standalone product. All Phoenix have 4 user defined alarm settings which alert you to changing conditions on the fence. Settings are accessed through a simple twin button, scroll menu displayed on a large LCD screen which also displays fence information. In addition, the bright LED bar gives an 'at-a-glance' indication of fence performance. All Phoenix have a 12v battery backup facility for further peace of mind in the event of power failure.



Command & Communicate module can also be installed in all Phoenix models. With the addition of a standard SIM card, the unique internally installed GSM unit relays alarm information via text allowing you to respond instantly to alarm conditions and potential problems. The system is also invaluable for on the spot maintenance as the fence can be switched off from any location to allow work to proceed in safety. The system will also relay up to date status reports to your mobile when requested.



Part no.  
47PHSMS



## Phoenix HLM700

Fixed joule mains, single output energiser. Fence monitoring facility, battery back up & command and communicate compatible.

- Wall mounting
- Terminal cover
- LCD display
- Fence indicator
- Battery back up
- Earth alarm
- Low voltage alarm
- Fence short alarm
- Fence break alarm



Part no.

## Siren & Strobe

part no. 47SS1

110 decibel external siren and strobe for Phoenix. Interfaces with the phoenix and activated by all alarm conditions.



As from 1<sup>st</sup> of September 2010, European electric fencing manufacturers are obliged to adhere to new safety guidelines regarding high powered energisers. Products manufactured after this date will have an output restriction of maximum 5 joules when operating under heavy fence loads. This is to ensure human or animal does not receive a potentially harmful level of shock if trapped on the fence. The guideline is particularly pertinent to high powered, intelligent energizers which increase output to maintain effective voltage on varying fence loads. In the event of detecting a **sudden heavy** load this type of energiser will need to increase power in a controlled and safe manner to minimise the risk to person or animal.

Our Phoenix models HMX1600 & 2500 will operate from a platform of 7 joules with a boost capacity of 16 & 25 joules respectively. If the fence load increases gradually to a point where 7 joules are not sufficient to maintain an effective voltage, the energiser will boost output to the relevant joule. However, if a sudden, heavy load is detected, the energiser will only enter the **full boost** mode following a safe mode period. If a change in fence load is detected from above 1000 ohms to 400 ohms or below, for duration of 5 pulses, a blue LED (2) will light and an internal alarm of 5 second beeps will sound for 45 seconds. The energiser will pulse at the reduced rate of one pulse every 3 seconds. The LCD display will flash ANIMAL. After the 45 second warning, the alarm will emit a continuous sound and the energiser will go into boost mode at a reduced pulse rate of 1 pulse every 3 seconds. The display will flash ANIMAL and BOOST alternately. The alarm will sound for 45 minutes or until the obstacle is cleared from the fence. The energiser will revert to normal operation at the normal pulse rate if the obstruction is cleared. If the fence load remains, the energiser will operate at the boost power level at the normal rate of 1 pulse per second following a 45 second period of normal pulse power. If an external alarm is fitted its operation will reflect that of the internal alarm in these conditions



## Phoenix HMX

Single output energiser with timed power boost. Fence monitoring facility, battery back up & command and communicate compatible.

- Terminal cover
- LCD display
- Fence indicator
- Battery back up
- Earth alarm
- Low voltage alarm
- Fence short alarm
- Fence break alarm
- Timed power boost



Part no.

7-16J	9.2kV	5.9kV	10-16w	65km	N/A	N/A	47HMX1600
7-25J	9.2kV	5.9kV	10-20w	85KM	N/A	N/A	47HMX2500



## Replacement parts for electric fence energisers

### 12v input leads

FOR	Part no.
47HLB100, 47P500, 47P450, 47P250	47BL1
GEMINI, RAPTOR	47BL12
47HLB500, 47HLB525	47BL1A



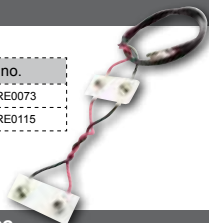
### 9v input leads

FOR	Part no.
47P300,	47WIRE0109
47HLB300	47WIRE0114



### 6v input leads

FOR	Part no.
47P150,	47WIRE0073
47HLB150	47WIRE0115



### Power supplies and battery chargers

FOR	Part no.
For Gemini & raptor	47PSU0009UK
For Fire Drake*	47BCUK



\* Fire Drake battery chargers are not to be used to power the fence, only recharge the internal battery

### Single croc clips

	Part no.
Red - fence	47PCR6R
Green - ground	47PCR6G
Red 12v	47PLAS0235
Black 12v	47PLAS0237



### Printed circuit boards

A wide range of replacement printed circuit boards are available for energisers old and new.



### Testers

There are three main types of electric fence tester. Proximity testers such as the beeper detect energy from a short distance and emit a sound or display an LED to show the presence of power. These are useful in offering a quick indication that a fence is on, but are inadequate for fault finding or actual voltage readings. Testers such as the 6 'lite are fitted with ground probes to connect earth and fence - much as an animal does when shocked. If designed with multiple lights, this type of tester indicates the amount of voltage present on the fence and can be used to find faults. The tester can be employed to test the fence, the energiser itself and the earth, allowing the user to single out the element causing the problem. Self earthing units such as the fence scout and digital tester use the body to make the earth connection allowing quick and accurate readings. Application of these units range from simple digital Kv reading to giving a direction indication of the fence fault. The fence scout displays Kv reading, amp reading and an arrow to lead you in the direction of the fault.



## KV tester



Bright LED's indicate voltage up to 10Kv.  
Self earthing

take a look.....



<http://youtu.be/HJrgPpct1VC4>

pack	Part no.
1	47KV10

Requires 2 x 3v CR2016 lithium batteries (included)

## Beeper fence tester

Audible power indicator



pack	Part no.
1	47P20B

Requires 1 x 3v CR2032 lithium battery (included)

## 6 LITE fence tester

Indicates voltage levels on your fence via six neon lights.



pack	Part no.
1	47P70

## Digital volt meter

Self earthing digital Kv tester.



pack	Part no.
1	47P36

## Indicator lamp

Flashes with each pulse of the fence.



pack	Part no.
1	47P71

## Voltage indicator

Flashes to indicate the fence is operating at an effective level. Stops flashing when voltage drops below 3kv.



pack	Part no.
1	47FA20

## Fault finder

Digital directional fault finder. It works on the principle that current flows through the path of least resistance. If there is a short on the fence, larger flows of current (Amps) are detected and displayed.

Water proof design  
Integrated (removable) belt clip  
Fingers are further away from high voltage  
Bright red LED direction arrows  
One touch operation - Simple to use  
Clear indications of the direction of the fault  
Digital readout which shows fence voltage and current  
No wires, no clips means no tangles, no shocks!  
Displays direction to a "high load" fault, not just current flow



pack	Part no.
1	47V10

# Testers



# posts

## 1 Rabbit/garden post

All plastic post. Ideal for gardens, ponds, and badger and rabbit systems.



Part no.  
47CP3-10

## 2 All plastic pigtail

Plastic pvc post. 12mm dia.



Part no.  
47P16-10

## 3 Multiwire post

Multewire plastic post for wire tape and rope. Premium heavy weight plastic.



600

Part no.  
47CP2000 (+)

● 47CP2000B-10 ● 47CP2000O-10 ● 47CP2000G-10 ○ 47CP2000W-10

## 4 Eco post

Trusted Hotline multiwire post design manufactured from recycled plastic.



600

Part no.  
47ECO2000-10

● (Colour tone may vary)

## 5 Stirrup post

Multewire plastic post with reinforced glass fibre and stirrup style tread in .



480

Part no.  
47HP5-15

○

## 6 1.4m multiwire post

Quality, multiwire tall post.



800

Part no.  
47CP14 (+)

● 47CP14H-20 ○ 47CP14H-20

## 7 Plain metal post

Powder coated steel post with welded foot plate. Use with adjustable insulators for semi permanent pig and predator systems. 9mm dia.



500

Part no.  
47P3-10

150cm

100cm

50cm

1 2 3 4 5 6

packaging key





**8 Paddock pigtail post**

Galvanised 6mm dia. spring steel post with tread-in and insulated pigtail .

Part no.  
47C2-10**9 Gold foot pigtail post**

Galvanised 7mm dia. spring steel post with tread-in and insulated pigtail .

Part no.  
47FPG00040**10 Live post**

Powder coated steel live post with welded foot plate. Live shaft to deter pushing.

Replacement insulator: 47PL66-3 see page 19

Part no.  
47PL32-10**11 Metal pigtail post**

Powder coated steel post with welded foot plate and plastic pigtail insulator.

Replacement insulator: 47P5-5 see page 19

Part no.  
47P2-10**12 'Zg-Zag' post**

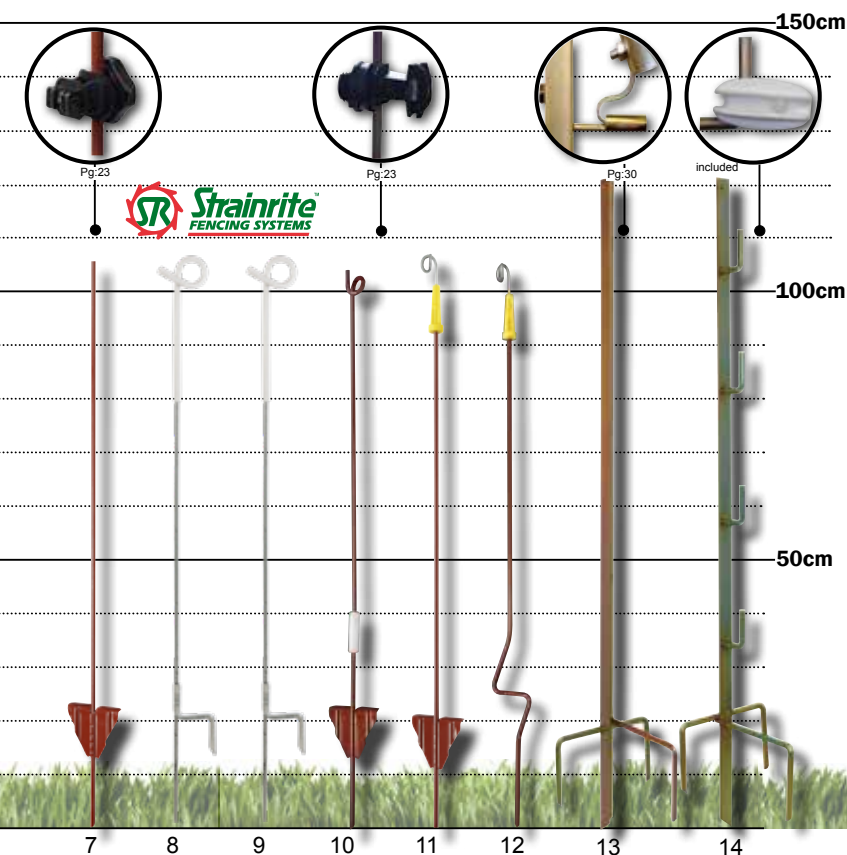
Powder coated steel post with formed tread in and plastic insulator.

Part no.  
47SP15-10**13 Reel post**

Heavy duty angle steel reel fixing post.

Part no.  
47PR2**14 End/corner post**

Heavy duty angle steel end &amp; corner post. Includes insulators

Part no.  
47PR3

# insulators

## Guidance

The insulator's primary role is to securely hold the fence line without power leaking from post to ground. A well designed insulator will hold the line securely so that it will not wear the tape, rope or wire when buffeted around by the elements or will allow the line to freely pass through without the impedance of sharp edges.

Corner insulators and end tensioners are designed to take the strain of a tensioned fence line through changes of direction and at terminations. Using a wooden post with this type insulator in temporary situations facilitates the effective tensioning of the line and allows temporary plastic posts to be spaced at greater distances and will extend the life of the tape or wire.

Off-set insulators hold the line away from the post giving extra clearance from hedges and walls, additional insurance from rubbing and chewing or from potential arcing problems if installing on stock fence. Off-sets are also useful for outwitting pests and predators. Installed at the base of a chicken run provides a 'scare' wire for the incoming predator or can be carefully placed to catch the sensitive ears of burrowing pests. This type of insulator can be positioned at every other post as it is less likely to make contact with intervening posts.



suitable for wire



suitable for tape



suitable for rope

### packaging key

pack	slim pack	large slim	bucket	carton	pallet

### Saddle insulator



Saddle insulator with integral nail. Suitable for polywire.



Qty	Part no.
50	47P13-50
100	47P13-100
200	47P13-200

### Bobbin insulator



Large flanged bobbin insulator. Suitable for polywire and galvanised wire



Qty	Part no.
20	47P24-20
100	47P24-100
200	47P24-200

### Pigtail insulator



Replacement insulator for pigtail and zig-zag posts (9mm dia. hole)



Qty	Part no.
5	47P5-5
50	47P5-50

### Live insulator



replacement insulator for live post.

Qty	Part no.
3	47PL66-3

### Tape insulator for metal posts



Adjustable insulator for metal posts. Suitable for tape up to 20mm. Fits all metal posts with pig-tails and plain metal posts.



Qty	Part no.
10	47P47OB-10

### Adjustable insulator for metal post



Adjustable insulator for plain metal post 47P3-10. Suitable for rope and wire.



Qty	Part no.
20	47P9-20
100	47P9-100

### Staple insulator



Permanent staple insulator for poly and galvanised wire. Includes staples.



Qty	Part no.
50	47P8-50
100	47P8-100

### Small bobbin insulator



Small nail on bobbin type insulator for polywire. Includes nails.



Qty	Part no.
50	47P11-50
200	47P11-200

### Paddock ring insulator



Screw-in ring insulator. Suitable for wire and rope.



Qty	Part no.
25	47C37-25



### Ring insulator



Reinforced screw-in ring insulator. Suitable for wire and rope.



Qty	Part no.
20	47P37-20
100	47P37-100
200	47P37-200



### Bolt on ring insulator



Bolt on ring insulator. Suitable for wire and rope.



Qty	Part no.
20	47P37B-20

### Tube insulator



Tube insulator with staples. Suitable for wire up to 3mm. Also available in 2m. lengths.



Qty	Part no.
100	47T100-100
2M	47T12

# insulators

# insulators

## Ring insulator with tape fitting



Screw in ring insulator suitable for wire, rope and tape up to 20mm.



W U R

Qty	Part no.
20	47P37S-20
100	47P37S-100



## Claw insulator



Nail on insulator with broad back plate for greater insulation from the post.

W R

Qty	Part no.
20	47P39-20
100	47P39-100

## Nail on tape insulator



Premium nail on tape insulator with overlock mechanism. Suitable for tape up to 40mm and rope.



U R

Qty	Part no.
20	47P45-20
100	47P45-100

## Screw in tape insulator



Premium screw in tape insulator with overlock mechanism. Suitable for tape up to 40mm and rope.



U R

Qty	Part no.
20	47P45S-20

## Paddock tape insulator



Nail-on tape insulator with thumb lock clip.



U

Qty	Part no.
20	47C45-25

## Off-set tape insulator



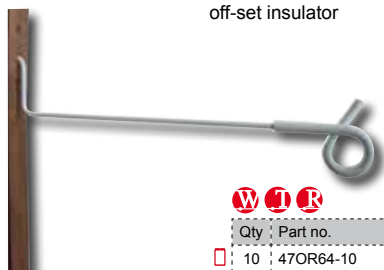
Premium screw in tape insulator with 120mm off-set and over-lock mechanism. Suitable for rope and tape up to 40mm.



U R

Qty	Part no.
20	47P45SL-20

## Outrigger off-set insulator



350mm coated steel off-set insulator

W U R

Qty	Part no.
10	47OR64-10

## Double off-set insulator



Double off-set insulator. Holds the fence line 300mm off each side of the fence. Includes staples



W U R

Qty	Part no.
10	47P64-10

packaging key





### Paddock off set ring insulator

200mm off set insulator suitable for wire and rope.

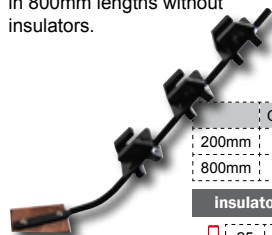


Qty	Part no.
20	47C37SO-20



### Garden/pond bracket & insulator

200mm angled steel bracket with three positionable insulators. Ideal for protecting ponds and gardens. Bracket also available in 800mm lengths without insulators.



Qty	Part no.
200mm	5 47GP-5
800mm	5 47GPL-5

insulators only

25	47GPI-25
----	----------

### Pulley insulator

Straining insulator for corners and terminations.



Qty	Part no.
3	47KS15-3

### Offset ring insulator with tape setting



Screw in ring insulator with 120mm off-set suitable for wire, rope and tape up to 20mm. Available screw-in for wooden posts and bolt on for metal.



	Qty	Part no.
Screw-in	20	47P37SL-20
Bolt-on	20	47P37SOB-20

### Corner-end strainer insulator

High strain insulator for end posts and corners. Suitable for rope and wire.



Qty	Part no.
5	47P15-5
50	47P15-50

fibreglass re-inforced

5	47P15F-5
---	----------

### Clamp insulator

Clamp for maintaining tension within the fence line. For tape up to 40mm.



Qty	Part no.
4	47P65-4

### End tensioning insulator

Insulator with tensioning buckle for securing at end posts.



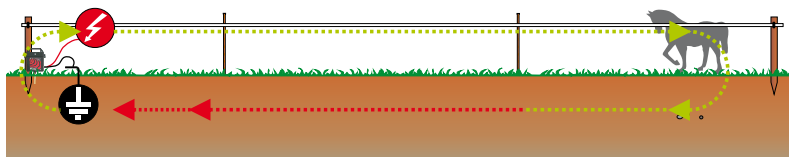
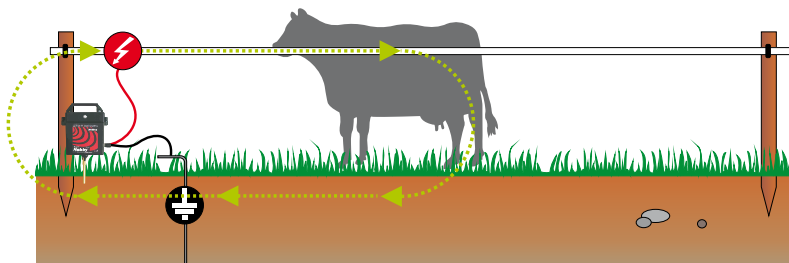
Qty	Part no.
1	47P99

insulators

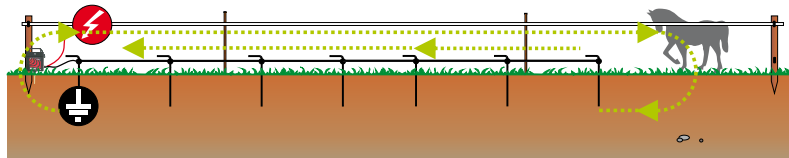


## Grounding

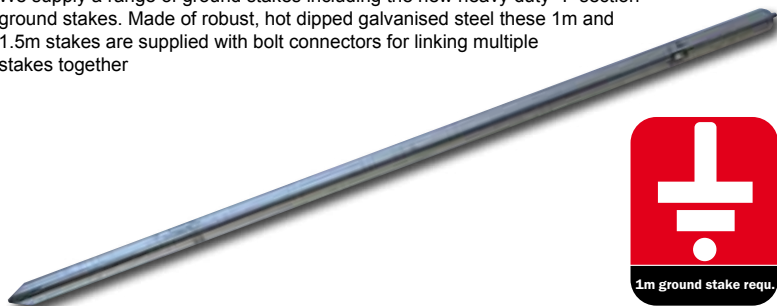
Grounding a fence system is perhaps the most overlooked aspect of building an electric fence. This is possibly because the terminology is similar to that of household electric and implies safety role rather than an integral part of fence operation. The fence line is only one half of the circuit – the ground is the other. The two together form an open circuit which is completed, like a switch, when the animal touches both. The fence line operates efficiently as the electricity is carried through highly conductive filaments but on return the pulse is carried through the ground itself. This is a very variable medium which is affected by weather conditions, geology and the extent of the earth system installed. In dry conditions the ground conducts poorly so it is always recommended to at least install the ground stake(s) in damp soil. We recommend a minimum of one 1 metre earth stake for any fence application at at least 1m in depth as the top soil is the most susceptible to change. A fence can only be improved by adding multiple stakes linked with wire driven as deep into the earth as possible. Multiple stakes should be placed 2m apart.



Long fences may require the installation of an ground return wire along the length of the fence to provide an efficient medium for the pulse to return to the energiser. Ground stakes are installed periodically along the length of the return wire minimising the amount of actual ground the pulse needs to travel.



We supply a range of ground stakes including the new heavy duty 'T' section ground stakes. Made of robust, hot dipped galvanised steel these 1m and 1.5m stakes are supplied with bolt connectors for linking multiple stakes together



### Ground stake



9mm dia, 1m long ground stake with wing nut and bolt connection.

Len/M	Part no.	
1.0	47ES2	10

### T section ground stake



Heavy duty T section ground stake with bolt connection. 1 & 1.5 metre.

Len/M	Part no.	
1	47EST1	3
1.5	47ES3	1

### Lightning arrestor



Diverter switch for lightning protection. Channels lightning to ground to minimise damage to the energiser

Qty	Part no.
1	47P74

### Warning sign

Rigid plastic warning sign

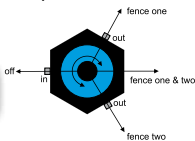


Qty	Part no.
1	47P40

### External isolator



Outdoor safe cut-out switch with twin output.



Qty	Part no.
1	47P33

### Insulator chuck

Speed chuck for screw in insulators.



Qty	Part no.
1	47CS1E

### Crocodile clips



Plastic crocodile clips with stainless steel jaws. New design 12v clips.

Qty	Part no.
4	47PCR6-4
50	47PCR6-50

### Earth and fence leads

Earth and live lead set.



Qty	Part no.
1 SET	47HTL-EL



**Rigid plastic gate handle**

One piece, UV resistant gate handle.



Qty : Part no.

1 47P17P

**Paddock gate handle**

Compression sprung gate handle



Qty : Part no.

1 47C17

**Premium gate handle**

Premium quality insulated gate handle.



Qty : Part no.

1 47P17

25 47P17-25

**Tape gate handle**

Gate handle with tape fitting buckle.



Qty : Part no.

1 47P17T

**Gate handle anchors**

Insulating gate handle anchors.

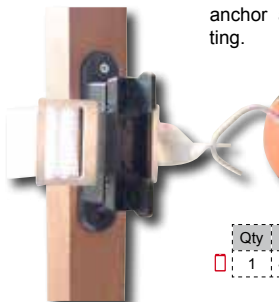


Qty : Part no.

2 47P28-2

**Handle anchor for tape**

Insulator with gate anchor and tape fitting.



Qty : Part no.

1 47P65-TB

**3 way gate anchor**

Gate anchor with 3 positions.



Qty : Part no.

1 47GA3

**Spring gate**

Gate handle and anchors with spring. Extends up to 5m.



Qty : Part no.

1 47P55

**packaging key**



**Tape gate**

Tape gate kit. Extends up to 6m.



Qty	Part no.
1	47P56

**Bungee gate**

Extendable bungee rope gate. Extends up to 6m.



Qty	Part no.
1	47P59

**In-line tensioner**

In-line tensioner for polywire and rope up to 7mm.



Qty	Part no.
2	47T20

**Insulated ratchet tensioner**

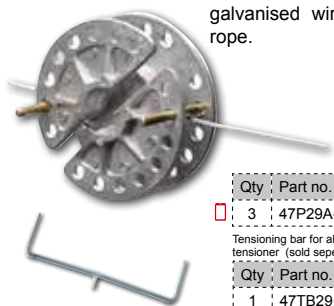
Insulated ratchet tensioner for steel wire.



Qty	Part no.
1	47T26I

**Aluminium tensioner**

In-line tensioner for galvanised wire and rope.



Qty	Part no.
3	47P29A-3
Tensioning bar for aluminium tensioner (sold separately)	
Qty	Part no.
1	47TB29

**Ratchet tensioner**

Heavy duty ratchet tensioner for galvanised wire.



Qty	Part no.
1	47T26

**Bolt joiner**

Heavy duty Joiner for galvanised wire



Qty	Part no.
5	47C82-5

**Rope joiner**

Connector for rope up to 6mm dia.



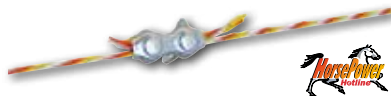
Qty	Part no.
4	47C92-4

# tensioners & connectors

# reels

## Rope and wire connector pro

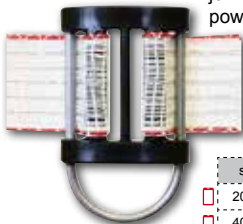
Twin bolt steel connector for rope and wire.



	size	Qty	Part no.	
<input type="checkbox"/>	1-2mm	10	47C94-10	Galvanised
<input type="checkbox"/>	5-6mm	4	47C93-4	Galvanised
<input type="checkbox"/>	5-6mm	4	47SS93-4	Stainless steel

## Connecting buckle

Tape connection buckles. Essential for joining tape without power loss.



	size	Qty	Part no.	
<input type="checkbox"/>	20mm	5	47CB20-5	
<input type="checkbox"/>	40mm	5	47CB40-5	

## Tape to tape connector



Connector for connecting 2 lines of tape. Suitable for tape up to 40mm.

	Qty	Part no.	
<input type="checkbox"/>	1	47C73-2	

## Line to line connector



Multi-line connectors for rope and wire. Connects up to 3 lines.

	Qty	Part no.	
<input type="checkbox"/>	2	47C75-2	

## Premium reel

Premium reel with UV spool warranty. Available with geared 3:1 ratio for bringing the fence line efficiently and quickly or standard 1:1. Spools up to 200m (up to 20mm) tape capacity and up to 800m polywire capacity.

- Spool warranty (UV)
- Carry handle
- Wire guide

Part no.	
47P25G5	4
47P25-500	4



## Paddock Essentials 3:1 reel

3:1 geared reel with steel frame and handle and wire guide.



Part no.	
47CGR500	4

Quick fixing bracket for premium reels. Interfaces with reel fixing post (47PR2) and can also be screwed onto wooden posts.



Qty	Part no.	
1	47BR1	

## Paddock reel

Plastic reel for dividing paddocks. Hooks onto existing fence.



Part no.	
47R25	

## Clutched reel

ABS reel with metal frame and clutch. Fits reel fixing post (47PR2) and metal posts. Compatible with 47BR1 bracket.



Part no.	
47P25-300	

packaging key



### Three reel systems

#### 400m galvanised wire system

- 3 premium 3:1 reels
- 3 400m spools of galvanised wire
- 40 multiwire posts
- 1 reel fixing post (with reel brackets)
- 1 end post with insulators
- 1 set line connectors

Part no.

47TP400G

#### 500m polywire wire system

- 3 premium 3:1 reels
- 3 500m spools of 6 strand polywire
- 50 multiwire posts
- 1 reel fixing post (with reel brackets)
- 2 end posts with insulators
- 1 set line connectors

Part no.

47TP500CP

#### 500m geared **BRAIDED** wire system

- 3 premium 3:1 reels
- 3 500m spools of braided polywire
- 50 multiwire posts
- 1 reel fixing post (with reel brackets)
- 2 end posts with insulators
- 1 set line connectors

Part no.

47TP500S

UPGRADED

The practical and flexible way of protecting existing fences, hedges and walls and for subdividing fields or creating temporary enclosures. 3 reel systems come complete and packaged in one carton with the wire pre-wound for easy installation.



### Starter kit

- 47HLB100 Shrike energiser
- Batteries
- 200m of 10mm tape
- 10 multiwire posts
- 2 end tensioners
- 1 pocket tester
- 2 gate handles with anchors
- 1 ground stake
- Warning sign



Part no.

47HK100-100

### Handy horse kit

- 47HLB50 Hobby 12v energiser
- 200m of 10mm tape
- 20 multiwire posts
- 2 end tensioners
- 1 pocket tester
- 2 gate handles with anchors
- 1 ground stake
- Warning sign



Part no.

47HK450-200

kits



# tape wire & rope

## Tape Rope and Wire

Tape, rope or wire, what do you choose? All conduct a charge in the same way, what differs is the medium within which the conductors are carried. The primary concern is visibility. For many animals an electric fence acts as a psychological barrier and they have to be able to see it to avoid it. This is also a consideration when considering colour – a product with a low visual impact from a human point is also much harder for an animal to see. Products which offer a higher contrast with the surrounding environment are more likely to be effective. Tapes and ropes are more common in equine applications and both have pros and cons. Tape offers the greater range of visibility as it is available up to 40mm in width and as such is often used as alternative to traditional fencing. As its profile is wide and flat it is susceptible to catching the wind which overtime can break down the conductors, as can constant moving and re-erecting. Many Hotline tapes have thick polyurethane webbing with extra thick edging to extend the life of the fence. Rope is a very good alternative to tape and what is lost on visibility is made up for in durability.

Poly-tapes, ropes and wires conduct power through thin metal conductors running through the length. The more metal in a fence line the more efficient it will be. Steel conductors have a good balance of conductivity and tensile strength and copper (usually nickel plated) conducts extremely well but has a lower tensile strength. Products with a combination of the two aim to take advantage of the strength of steel while using the copper to reduce the overall resistance of the product. Resistance is measured in Ohms. A lower Ohm value indicates the product offers less resistance to the energy flowing through it and thus will take the power further.

dimension (mm)	dimension (m)	colour	PE filaments	conductors	braking strain (kg)	resistance (ohms)

## Specifications

47TC49-1	10mm	100m		0.45/0.33	0.28	4ss0.20		60kg	5.8	18
47TC41-2	10mm	200m		0.45/0.33	0.28	4ss0.20		60kg	5.8	16
47TC43-2	20mm	200m		0.5	0.38	3ss0.20	3Cu0.22	68kg	0.3	8
47TC46-2	40mm	200m		0.50/0.9	0.38	5ss0.20	5Cu0.22	125kg	0.07	6
47TC46G-2	40mm	200m		0.50/0.9	0.38	5ss0.20	5Cu0.22	125kg	0.07	6
47C42-2	12MM	200M		0.33	0.33	4ss0.15		52kg	8.98	10
47C43-2	20mm	200m		0.33	0.33	4ss0.15		76kg	8.98	8
47C43G-2	20mm	200m		0.33	0.33	4ss0.15		76kg	8.98	8
47C46-2	40mm	200m		0.33	0.33	8ss0.15		146kg	4.5	4
47PR40-250	40mm	250m		0.5/0.9	0.5	10ss0.4		238kg	0.48	4
47PR40G-250	40mm	250m		0.5/0.9	0.5	10ss0.4		238kg	0.48	4
47C21-250	1.2mm	250m		0.30		6ss0.15		55kg	7.4	4
47C21-500	1.2mm	500m		0.30		6ss0.15		55kg	7.4	4
47P10-100G	1.2mm	100m		0.30		4ss0.15		47kg	9.0	50
47P10-200	1.2mm	200m		0.33		3ss0.15		40kg	12.0	50
47P10-400	1.2mm	400m		0.33		3ss0.15		40kg	12.0	24
47P21-250	2mm	250m		0.33		6ss0.20		85kg	3.9	16
47P21-500	2mm	500m		0.33		6ss0.20		85kg	3.9	12
47P62-250	2mm	250m		0.3		6ss0.15	3Cu0.22	77kg	0.26	16
47P62-500	2mm	500m		0.3		6ss0.15	3Cu0.22	77kg	0.26	12
47B9-200	3mm	200m		0.28		6ss0.15	3Cu0.25	105kg	0.06	15
47B9-500	3mm	500m		0.28		6ss0.15	3Cu0.25	105kg	0.06	6
47C51-2	6mm	200m		PP1000		6ss0.20		248kg	3.8	6
47P51-2	6mm	200m		0.41		3ss0.20	2Cu0.22	187kg	0.39	6
47P51G-2	6mm	200m		0.41		3ss0.20	2Cu0.22	187kg	0.39	6
47P51G-5	6mm	500m		0.41		3ss0.20	2Cu0.22	187kg	0.39	3
47PR7	7mm	200m		0.41		9ss0.28		357kg	1.24	4
47P22	1.6mm	200m				7s			0.01	4
47P23	1.6mm	400m				7s			0.01	4
47PREL400	7mm	400m				1s2.5			0.035	1
47HT650	2.5mm	650m				1s2.5			0.035	1





## 3 strand supercharge wire

Polywire with 3 stainless steel conductors.



Conductivity	Breaking Strain
Distance	Visibility
1.2	100
1.2	200
1.2	400
Part no.	
47P10-1G	
47P10-2	
47P10-4	

## 6 strand paddock wire

Polywire with 6 stainless steel conductors.



Conductivity	Breaking Strain
Distance	Visibility
1.2	250
1.2	500
Part no.	
47C21-250	
47C21-500	

## 6 strand supercharge wire

Polywire with 6 stainless steel conductors



Conductivity	Breaking Strain
Distance	Visibility
2.0	250
2.0	500
Part no.	
47P21-250	
47P21-500	

## 9 strand turbocharge wire

Polywire with 3 copper and 6 stainless steel conductors



Conductivity	Breaking Strain
Distance	Visibility
2.0	250
2.0	500
Part no.	
47P62-250	
47P62-500	

## Braided wire

3mm Braided polywire. Higher breaking strain and greater visibility than poly wire. 6 stainless steel conductors and 3 copper conductors.



Conductivity	Breaking Strain
Distance	Visibility
3.0	200
3.0	500
Part no.	
47B9-200	
47B9-500	

## Galvanised wire

7 strand galvanised steel wire. Malleable wire which is easy to work with and highly conductive.



Conductivity	Breaking Strain
Distance	Visibility
1.5	200
1.5	400
1.6	400
Part no.	
47P22	
47P23	
47P23-B*	

\*Pictured

## 2.5mm high tensile steel wire

2.5mm high tensile wire. Comes on a wooden spool for easy use. No spinning jenny required.



Conductivity	Breaking Strain
Distance	Visibility
2.5	650
Part no.	
47HT650	

## Equi-line

2.5mm high tensile wire coated in a high visibility polymer with conductive radial fins. Highly durable and supremely conductive solution for permanent horse fencing.



Conductivity	Breaking Strain
Distance	Visibility
7	400
Part no.	
47PREL400	



**Fence pliers**

Multi function fence tool.



Qty	Part no.
1	47FP25

**Spinning jenny**

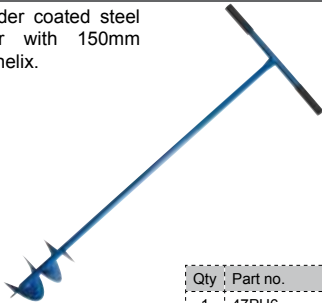
High tensile wire dispenser. With ground spike



Qty	Part no.
1	47SJ25

**Hole borer**

Powder coated steel borer with 150mm (6") helix.



Qty	Part no.
1	47PH6

**Post driver**

Manual post driver (6")



Qty	Part no.
1	47PD6

**Gripple plus**

For connection of high tensile wire, barbed wire and stock fence.



**Medium** - 2 - 3.25mm wire. 400 kg max. load.

**Large** 3.25- 4.2mm. 600kg max. load.

**Barbed** 2.5mm. max. load 330kg

size	Qty	Part no.
M	20	47GRIP0001
L	10	47GRIP0005
B	10	47GRIP0002

**t-gripple**

For rapid tying off of high tensile wire, barbed wire and stock fence. Suitable for 2.00 -3.25mm wire



Qty	Part no.
20	47GRIP0006

**Gripple Contractor Tool**

All metal construction, 10:1 mechanical advantage helps you apply the same tension, with less effort. Gear driven, long handles for increased leverage. Quick release cam and ergonomic grips for added comfort



Qty	Part no.
1	47GRIP0008

**Gripple tool**

Lightweight Gripple gear-drive tension tool with torq tension gauge.



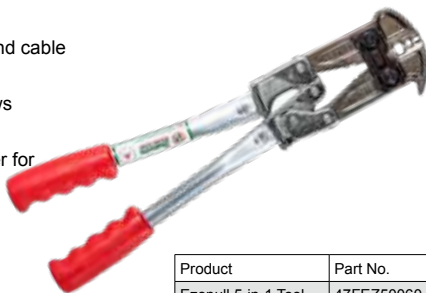
Qty	Part no.
1	47GRIP0004





## Ezecrimp 5 in one tool

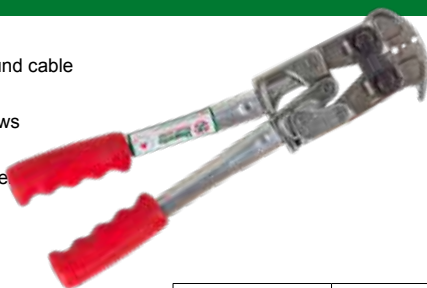
Crimps ALL Strainrite Wire Crimp Sleeves  
Wire cutting & wire stripping of underground cable  
Staple pulling  
Hardened cutlery grade stainless steel jaws  
Lightweight and compact handles  
Strong double action with over-centre lever for superior strength crimps



Product	Part No.
Ezepull 5-in-1 Tool	47FEZ50060

## Ezecrimp 4 in one tool

Crimps Strainrite 2.50mm Crimp Sleeves  
Wire cutting & wire stripping of underground cable  
Staple pulling  
Hardened cutlery grade stainless steel jaws  
Lightweight and compact handles  
Strong double action with over-centre lever for superior strength crimps



Product	Part No.
Ezepull 4-in-1 Tool	47FEZ50050

## Ezecrimp 3 in one tool

Crimps 2.50mm, 3.15mm, 4.00mm electric and barbed wire crimps  
Wire cutting & wire stripping of underground cable  
Staple pulling  
Heat treated tool steel jaws  
Strong double action with over-centre lever for superior strength crimps



Product	Part No.
Ezecrimp 3-in-1 Tool	47FEZ50055

## Wire crimps

Crimp sleeves make fast, easy wire joins that exceed the breaking strain of the wire!  
All regular crimp sleeves now with water-resistant grit adhesive for all-weather application.  
NZ made.

Product	Part No.
2.50mm Crimp Pottle 100	47FWC00024
3.15mm Crimp Pottle 50	47FWC00034
4.00mm Crimp Pottle 50	47FWC00044
Barbed Wire Crimp Pottle 50	47FWC00018
Electric Fencing Crimp Pottle 50	47FWC00014

**2.50mm Crimp Sleeves**  
For use on 1.6mm - 2.5mm fencing wire

**3.15mm Crimp Sleeves**  
For use on 3.15mm or 10 gauge and 1.6mm HT barbed wire

**4.00mm Crimp Sleeves**  
For use on 3.55mm—4.00mm (9 to 8 gauge) fencing wire & 2.00mm HT barbed wire

**Barbed Wire Crimp Sleeves**  
For use on 2.50mm (12 to 12 gauge) mild steel barbed fencing wire

**Electric Fencing Crimp Sleeves**  
For use on 1.6mm—2.7mm (16 to 12.5 gauge) fencing wire





## Knipex wire cutters

Exceptional cutting performance with minimum effort because of unsurpassed effective lever action design.

Induction-hardened precision cutting edges for soft, hard, and piano wire.

Cutting edge hardness approximately 64HRC.

Cuts components such as bolts, nails, rivets, etc. up to 5.2mm dia.

Chrome vanadium heavy-duty steel, forged, oil-hardened.

Scalloped jaw for improved cutting performance.



Product	Part No.
Knipex Scalloped Jaw	47FKX00010
Knipex Straight Jaw	47FKX00011

## HT Wire cutter

Scalloped jaw design

Ergonomically designed handles

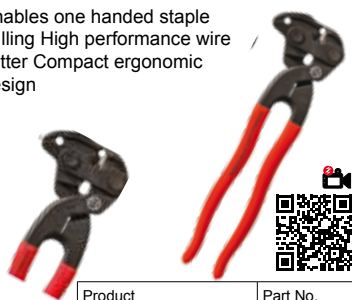
Max. 4mm diameter hard wire



Product	Part No.
Strainrite HT Wire Cutter	47FKX00060

## Staple puller

Enables one handed staple pulling High performance wire cutter Compact ergonomic design



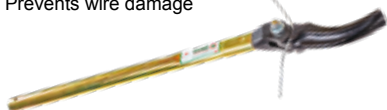
Product	Part No.
Staple Puller	47FKX00160

## Easy wire puller

Easily tie off/staple wire hands free!

Quick and easily tensions either fencing or netting wire around strainer posts

Prevents wire damage

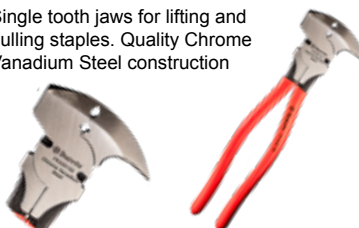


Product	Part No.
Easy Wire Puller	47FWT50010

## Fencing pliers

Cuts and twists wire

Single tooth jaws for lifting and pulling staples. Quality Chrome Vanadium Steel construction



Product	Part No.
Fencing Pliers	47FKX00152

## Wire twister

Used for neat and easy wire tying.

Compact & easy to carry around.

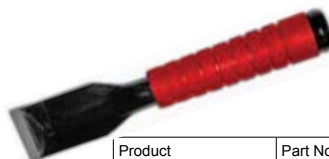
Gold passivated for increased corrosion protection.



Product	Part No.
Wire Twister 78mm	47FTW00020
Wire Twister 106mm	47FTW00030

## Easycut chisel

Enhanced durability. Designed specifically for fence construction. Optimum strength and cutting performance. Ergonomic PVC hand grip.



Product	Part No.
Ezexecut Chisel	47FCI00020



**Standard Chain Strainer with Spring**

Wear-resistant smooth grip SG iron jaws  
Heavy duty rivets and high tensile pivot bolt.  
Computer-designed geometry provides effective grip on zinc/aluminium fencing wire.  
One piece gold zinc passivated handle. Large 27mm dia, easy on the hands.  
Available with spring-loaded claws for one hand operation.



Product	Part No.
Std Chain Strainer MK2 (With Spring)	47FCS00040

**Boundary Strainer (hook type)**

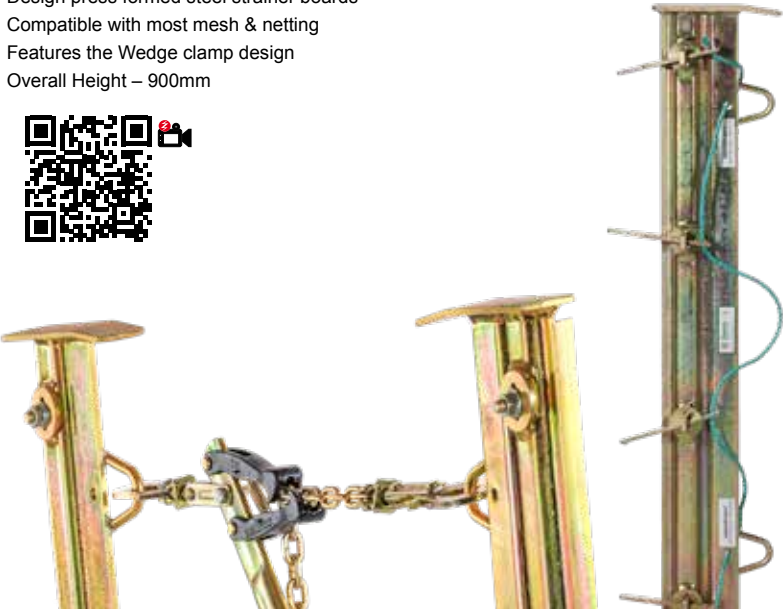
Features Hook Type  
Complete with a 6-metre chain and hook  
Recommended for use with Netting Fence Strainer Boards



Product	Part No.
Boundary strainer	47FBY00020

**900mm netting strainer board - Wedge type**

Design press formed steel strainer boards  
Compatible with most mesh & netting  
Features the Wedge clamp design  
Overall Height – 900mm



Product	Part No.
900mm netting strainer board	47FNB00014

### Joulesheild High strain insulator

Large surface area and shielding  
Rounded surfaces shed water faster  
75% increased insulation performance  
Patented design, guaranteed for 12 years



Product	Qty	Part No.
JS high strain insulator	25	47FIN00017

### Joulesheild pinlock insulator

Large surface area and shielding  
Heavy duty jaws cope with maximum wire loads. 75% increased insulation performance



Product	Qty	Part No.
JS Pinlock insulator	200	47FIN00088

### Heavy duty underground cable

Manufactured from soft 12.5 ga galvanised wire  
Easy to work with  
Double-insulated, high quality UV resistant LDPE.



Product	Qty	Part No.
Underground cable	100M	47FCA00292

### Electric bungee cord

Premium Quality Industrial Strength Electric cord  
Unique, specially formulated 8mm rubber polymer solid core  
Braided with 4 stainless steel wires



Product	Qty	Part No.
Bungee cord	50m	47FCO00050

### Gate handle for bungee connection

LDPE, UV stabilised gate handle. Virtually unbreakable! Box of 10



Product	Qty	Part No.
Gate handle for bungee	10	47FGH00075

### Brianex bungee connector

Quick connector to join bungee cord to gate handle 47FGH00075



Product	Qty	Part No.
Brianex connector	10	47FGH00175



Paddock Essentials is a range of high quality products offered at economy prices. The range is small but is designed to cover most applications, perfect for stockists wishing to hold a small capsule range and to give the customer a simple solution.

## Centaur

9v mid powered energiser with internally housed battery (not included). Light and portable, suitable for a range of applications.

- 9v battery input
- Internally housed batteries
- On/off switch
- Low battery/pulse indicator



0.2J	0.14J	9.2kV	1.6kV	30mA	4kM	2	0
------	-------	-------	-------	------	-----	---	---



Qty	Part no.
1	47C200

## Kite

Single output mains energiser

- single output
- Pulse indicator



Qty	Part no.
1	47CLM80



0.8J	0.45J	7.5kV	3.9kV	2w	8km	5	2
------	-------	-------	-------	----	-----	---	---

## MB60

Medium powered 12v energiser

- 12v input
- Pulse indicator
- Galvanised stand



Qty	Part no.
1	47MB60



0.56J	0.33J	10kV	4.3kV	85mA	5kM	5	1
-------	-------	------	-------	------	-----	---	---

## 6 lite tester

Indicates voltage levels on your fence via six neon lights.



pack	Part no.
1	47P70

## Paddock geared reel

3:1 geared reel with steel frame and handle and wire guide.



Part no.
47CGR500



## 6 strand paddock wire

Polywire with 6 stainless steel conductors.



			Part no.
1.2	250		47C21-250
1.2	500		47C21-500

## 6mm Paddock rope

White paddock rope with 6 stainless steel conductors.



			Part no.
6	100		47C51-100
6	200		47C51-2

## Paddock electro tape

White or green paddock tape with stainless steel conductors.



			Part no.
12	200		47C42-2
20	200		47C43-2
20	200		47C43G-2
40	200		47C46-2

## Paddock reel

Plastic reel for dividing paddocks. Hooks onto existing fence.



Part no.	
47R25	2

## Paddock off set insulator

200mm off set insulator suitable for wire and rope.



Qty	Part no.
20	47C37SO-20

## Paddock ring insulator

Screw-in ring insulator. Suitable for wire and rope.



Qty	Part no.
25	47C37-25

## Paddock tape insulator

Nail on tape insulator with locking thumbtab



Qty	Part no.
25	47C45-25

## Paddock gate handle

Compression sprung gate handle



Qty	Part no.
1	47C17



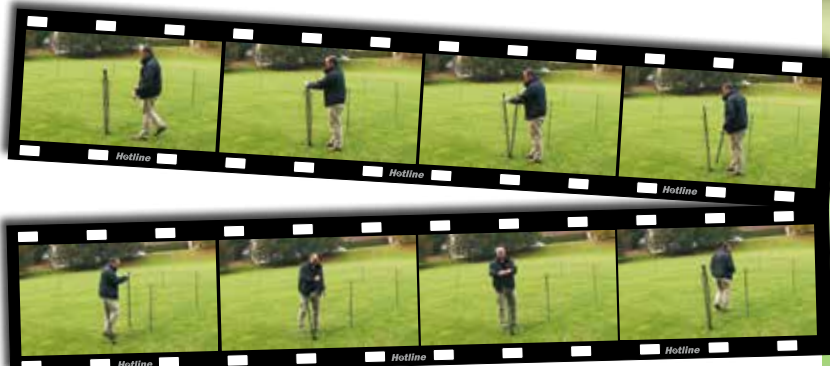
The increasing popularity of electric poultry netting in domestic settings has highlighted potential dangers for some small animals. Amphibians and small mammals have been known to get trapped while attempting to navigate through the lowest section of net and in some cases have died as a result of receiving multiple shocks. This problem can be resolved by erecting a low barrier in front of the net or by disconnecting the lowest line as outlined above.

## 'Hot - Gate' poultry gate system

Until now access in and out of a poultry netting enclosure was far from hassle free. Our new Hot Gate system allows access without the need to disconnect the energiser or untie fiddly cords. When topping up feed and water the Hot Gate can even be operated with one hand!

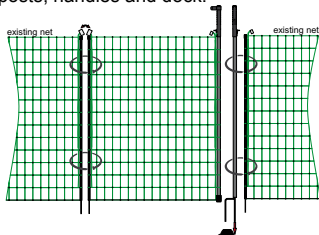
The Hot-Gate can be added to any existing poultry net system and we now include the gate system into all poultry kits

To view an installation video visit <https://youtu.be/psymayBbMaQ> or scan the QR code with your smart phone



### stand alone Hot- Gate

The stand alone gate system can be incorporated into any poultry net. It simply ties into the end of the existing net and provides the 19mm gate posts, handles and dock.



Length	Colour	Part no.
1.2m	green	47PGS-1



### Corner posts

Extra rigid, double spike corner posts for poultry nets. 19mm dia. PVC posts made slightly higher than the net to help lift to top line and reduce sagging.



Qty	Part no.
each	47CP112

### Post clips

Intermediate clips for 13mm netting posts. Enables individual lines to be lifted to help account for undulating ground.



Qty	Part no.
10	47PC13-10

netting

# netting

## Poultry kits with Hot-Gate

Electric netting kits are the ideal option for those keeping a small amount of birds in a domestic setting and prefer a solution which can be moved and stored easily and has a low visual impact. The poultry net has 14 integral posts. Electrified poultry netting kits provide an effective deterrent against most predators and can be powered from 230v or from 12v battery.

### 25M Poultry Kit Contents

- 47MH2LG 25m green poultry net
- 4 x 47CP112 Double spike corner posts
- 47HLC80 Gemini Energiser
- 47PGS-1 Hot Gate system
- 47KV10 tester
- 47ES2 earth spike
- Ground skewers, pegs and corner guys & warning sign.

### 50M Poultry Kit Contents

- 47MH5LG 50m green poultry net
- 4 x 47CP112 Double spike corner posts
- 47HLC120 Gemini Energiser
- 47PGS-1 Hot Gate system
- 47KV10 tester
- 47ES2 earth spike
- Ground skewers, pegs and corner guys & warning sign.

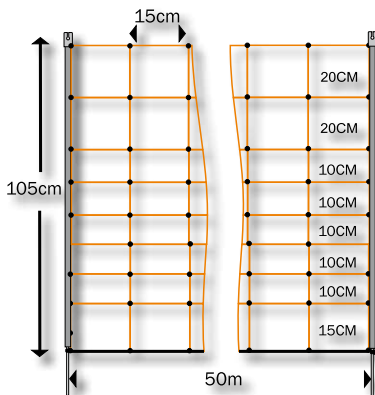
**Fluxusmet**



Length	Colour	Part no.
25m	green	47GPK25
50m	green	47GPK50

## Goat net

14 posts • 2 corner guys • repair kit.

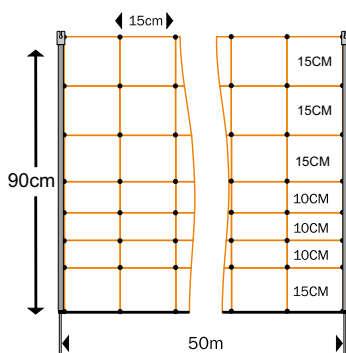


Length	Colour	Part no.
50M	orange	47MG5LO

**Fluxusmet**

## Sheep net

• 14 posts • 2 corner guys • repair kit.



Length	Colour	Part no.
50M	orange	47MS5LO

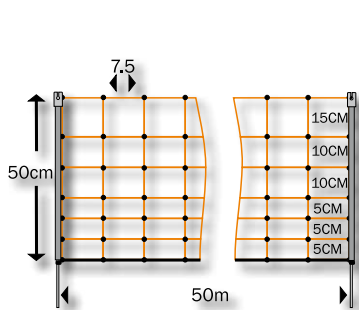
**Fluxusmet**





## Rabbit net

- 14 posts
- 13 ground pins
- 4 corner guys
- repair kit.

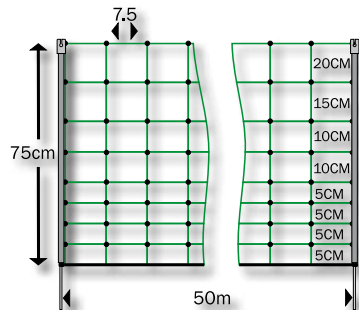


Length	Colour	Part no.
50M	orange	47MR5LO



## Super rabbit net

- 14 posts
- 13 ground pins
- 4 corner guys
- repair kit.



Length	Colour	Part no.
50M	green	47MSR5LG
50M	orange	47MSR5LO



## Spares and repairs

### Repair kits for netting

- 2 x top post caps
- 2 x bottom post clips
- 4 x ferrules crimps
- 2 x approximate 3m white guide wire (not pictured)
- 1 x approximate 3m live wire
- 1 x approximate 3m non live wire



Col	Part no.
Green	47RKG
Orange	47RKO

### Replacement poultry posts

Replacement single spike  
13mm poultry posts. Black.



Part no.
13mm 47PMPBL

### Repair ferrules

Repair ferrules for connecting  
replacement lengths of wire



Part no.
Each 47NETFEU

### Bottom clips

Replacement wire clips for the  
post spike.



Col	Part no.
13mm	47BCLIP

### Netting warning sign

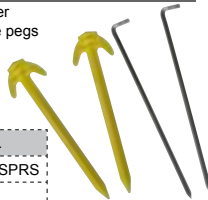
Flexible warning sign



Col	Part no.
13mm	47N40

### Pegs

Replacement plastic corner  
pegs and galvanised base pegs



Type	Qty	Part no.
Plastic	2	47PEGSPRS
Galv.	each	47SK1

## Explorer Lithium rechargeable torch

Dual beam LED torch with soft feel case.

- 10w high power LED
- Lithium battery
- Two main beam levels
- Flashing mode
- 15 LED work lamp
- Up to 15 hour battery life
- Mains charger
- Carry strap



Part no.
8 47L200L

## Explorer Mini Solar torch

Multi-functional torch with solar charging.

- Twin level main beam
- Fold up work light
- Solar charging
- 3.7V 3000mAh Lithium battery
- Mini USB port



**Available Autumn 2020**



Part no.
47L100L

## Duolite handlamp

We have been making the duolite handlamp for as long as we have been manufacturing electric fence energisers. A very popular hand lamp of superior quality, perfect for hunting and lambing.

- 20W Main halogen beam
- 5W Working halogen beam
- Internal mains charger
- Shoulder strap



Part no.
47L210A

## Spares

MODEL	BATTERY	BULB (S)
47L200S	47L4V	N/A
47L200D	47L30	47EX40, 47LEDS0034 (led ring)
47L210A	47L21A	47LEDS0018 (5w), 47LEDS0019 (20w)
47L210 (old type)	47L21	47L14-1 (small), 4715-21 (main)



## Tail tape

Coloured identification tape. Reinforced with fibre but easy to tear. Available in four colours and in 25m and 50m rolls..

Colour	length	Part no.
Red	10m	47P60R
	50m	47P60R-50
Blue	10m	47P60B
	50m	47P60B-50
Green	10m	47P60G
	50m	47P60G-50
White	10m	47P60W
	50m	47P60W-50



## Wand Lite - 12v battery powered strip light

The Wand Lites patented spiral LED is designed to give a room filling light in places where a mains power supply is not available. 800mm tube.

- Effective alternative to fluorescent lighting
- Use with any 12v battery (see page 11)
- Simple to install - takes minutes
- Low consumption LED technology
- Patented spiral LED gives 360 degree light
- Light weight but virtually unbreakable
- Water resistant
- Eco friendly
- Portable



<http://youtu.be/HECnwN9MCGo>



Part no.  
47WL800



# water pumps

## Contents

There is an increasing requirement for land owners and managers to keep livestock away from watercourses. The European Water Framework Directive (WFD) has been establishing a framework for the protection of inland waters, transitional waters (estuaries), coastal waters and groundwater. This is covered in the UK by The Water Environment Regulations 2003 for England and Wales; the Water Environment and Water Services (Scotland) Act 2003 and The Water Environment Regulations 2003 for Northern Ireland.

Diffuse water pollution from agriculture accounts for 61% of nitrogen entering rivers, up to 40% of phosphorus and 75% of sediment. Fencing off watercourses protects from river bank erosion and relieves poaching so contributes greatly to cleaner water and promotes growth of healthy native flora and fauna. We can all agree that this is great for our environment, but for land owners who rely on watercourses to water their livestock, it can be very problematic. Our battery and solar water pumps have been developed in response to this problem.

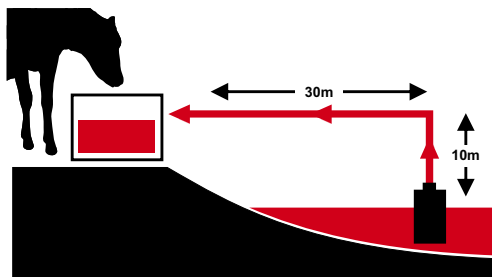
We have been working with livestock farmers, Natural England and the Catchment Sensitive Farming initiative (CSF) to provide an easy, reliable and self sufficient way of providing water to livestock when watercourses are fenced off. We have been manufacturing electric energisers for over 40 years and so we are accustomed to making and supplying products which need to operate out in the elements, in remote areas and from independent power sources. Like our energisers, the system needed to be reliable, easily transportable and capable of catering for large numbers of different types of animals.

## The Pump kits

The solar and battery kits easily integrate with all standard water troughs so there is no need to train animals as with traditional pasture pumps which are also limited in the number of animals they can supply. The solar kit has supplied groups of 90 cattle with all their water requirements, without any need to change or charge batteries. Although, the kit is marginally more expensive than a pasture pump, it is far more flexible in application and compared with the cost of mains water, they are very economical.

The water pump kits are simple 12v pumping systems based upon proven water-pumping technology which allows the transference of large volumes of water. The trough is fitted with float switch which turns on the submersible pump as the water level drops. There is no need for balancing tanks or header tanks, just a standard water trough. The pump is connected to 30m of hose which feeds back from the water source to the trough. The pump is connected to 30m of hose which feeds back from the water source to the trough. The kit is powered by 12v battery\* which sits in a weatherproof control box. The basic solar option includes a high efficiency 60w solar panel.\*\* The system is compatible with a solar array of up to 300w.

**Example: for 4 hours run time per day we would recommend 3 x 60w solar panels**



\*Battery not included. We recommend a minimum of 75ah. \*\*Depending on daily run time and time of year, a 60w panel alone may not be sufficient to achieve complete self sufficiency. Additional panels may be required.



## Contents

### Control box and battery compartment

- Weather proof polypropylene
- Battery life monitor
- Holds up to 85amp hour (12v) batteries



### 30m hose

- 30m 1/2" dia. re-inforced hose



### 60w solar panel and stand

- Mono-crystalline 60w solar panel with lead
- Adjustable mounting frame



### Submersible pump.

- With 30m cable



**UPGRADED**

Part no.	
47SPK60-300	Solar pump kit
47BPK30-300	Battery pump kit
47SP60W-S	60w solar panel & stand

## Capacity

Water requirements vary greatly for livestock and are influenced by temperature, humidity and feed source. Always make allowances for this. The majority of grazing animals are herd animals and will want to drink socially together so trough size should allow for this. Increasing head will reduce pump outputs. At 10m head the pump will run at approximately 65% of peak output. Increasing the distance the pump works over will also increase head and therefore reduce pump output. Solar recharge times vary with weather conditions. The below recommendations allows for 4 hrs recharge time daily and so outputs in summer are likely to be much higher. If not using solar option the periods between battery charges will depend on the level of usage.

Head (m)	0	1	2	3	4	5	10
Output litres per hour	320	305	300	285	275	265	210

	Cattle<200kg	Cattle>400kg	Dry cows	Milking Beef	Milking Dairy	Horses	Sheep
Approx. Water Requirement	10-35L	30-50L	30-50L	70-80L	80-200L	30-50L	2-5L
Animal capacity per pump	up to 120	up to 40	up to 40	up to 17	up to 15	up to 40	600

	20kg pigs	50kg pigs	90kg pigs	Pigs dry sow	pig milking
Approx. Water Requirement	1L	5L	9L	9-18L	18-36L
Animal capacity per pump	up to 1200	up to 240	up to 133	up to 130	66

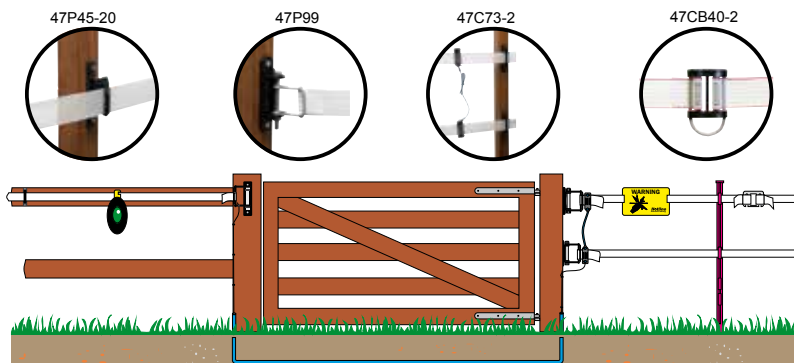
water pumps

## Building a system

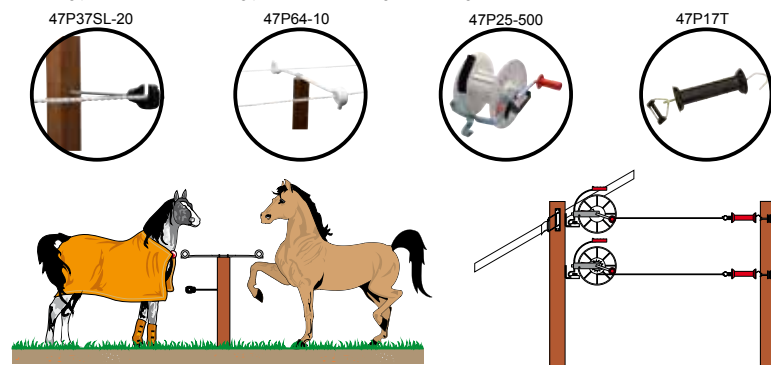
We hope the following pages will help to show how products combine to form systems. The examples are by no means exhaustive or specific to the animals we have suggested, so you can take different elements to provide a solution that is best for you. The wire heights are also a guide, these can be modified to best suit your animals or combined if you wish to keep or to protect from more than one type of animal. All animals behave differently, use electric fencing to outwit them and take into consideration how the animal is likely to contact the fence. For example, when rabbits jump they are free from earth contact and immune from shock. By wiring a line to earth the animal will receive a shock from 2 wires rather than the ground and wire. The key elements of an electric fence are sufficient voltage to provide a deterrent and visibility, so the animal can learn to avoid the fence.

## Horses

Horses are intelligent and will avoid a fence if they have had experience of been shocked. Visibility of fence is an important aspect. Electric fences can be used to prevent rubbing and chewing on existing fences, as a primary fence system or to divide existing enclosures. Remember a horse with a rug will be better insulated from the shock than those without.



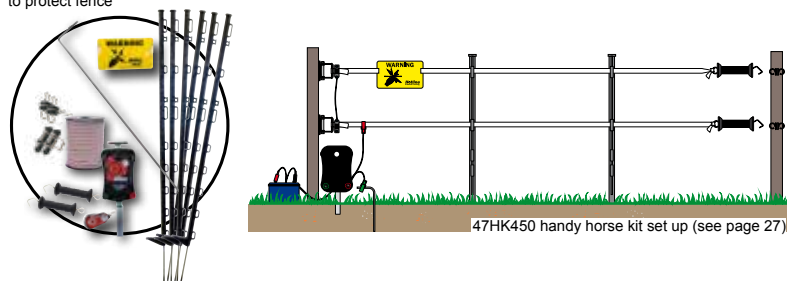
Protecting post and rail, transferring power across solid gates, adding extensions.

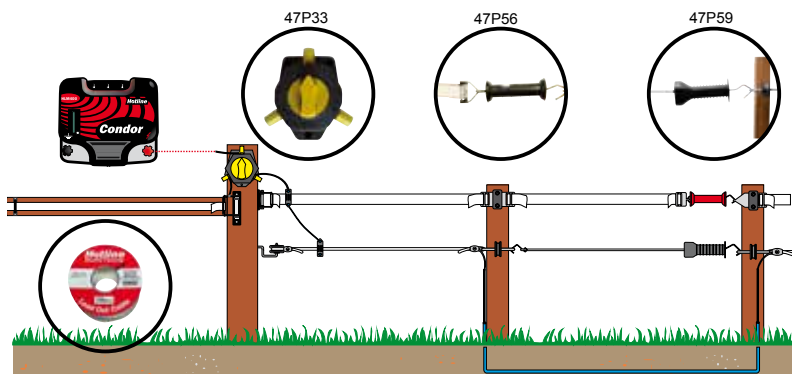


Off setting fence to protect fence

lines to keep animals apart or

Using reels for temporary divisions.

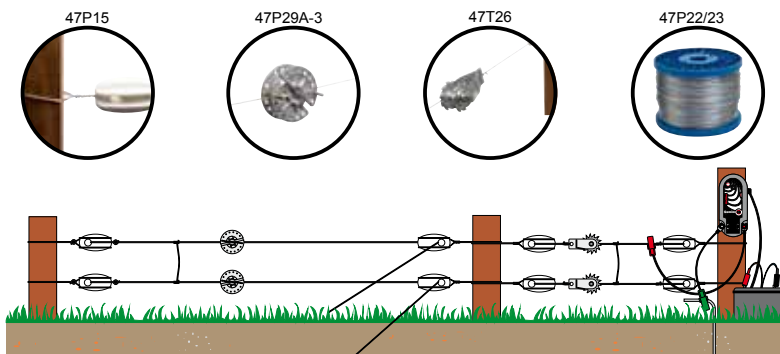




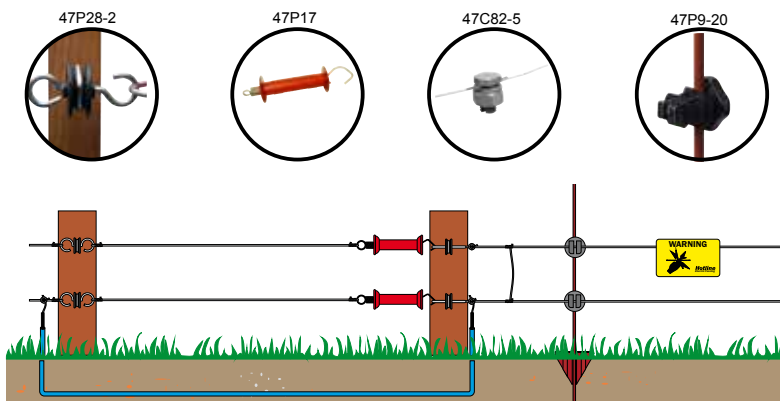
Twin zone isolation switch with indoor mains insulation, tape and rope gates (with power transference).

## Pig

Pigs can heap soil up onto the fence line, shorting power to ground so choose a durable fence material such as galvanised wire which will allow you to clear the lines without fear of breakage. Pigs also have a tendency to run forward when shocked so a well tensioned system will provide a solid physical barrier. The down side of a wire system is that it is less visible so you may wish to run a line of tape or rope as well, at least in training stages.

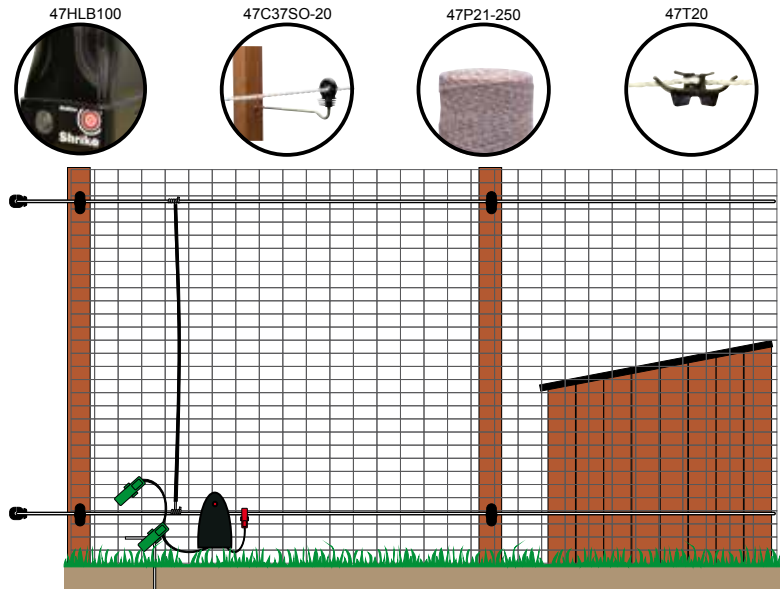


Tensioned galvanised pig system with two methods of tension

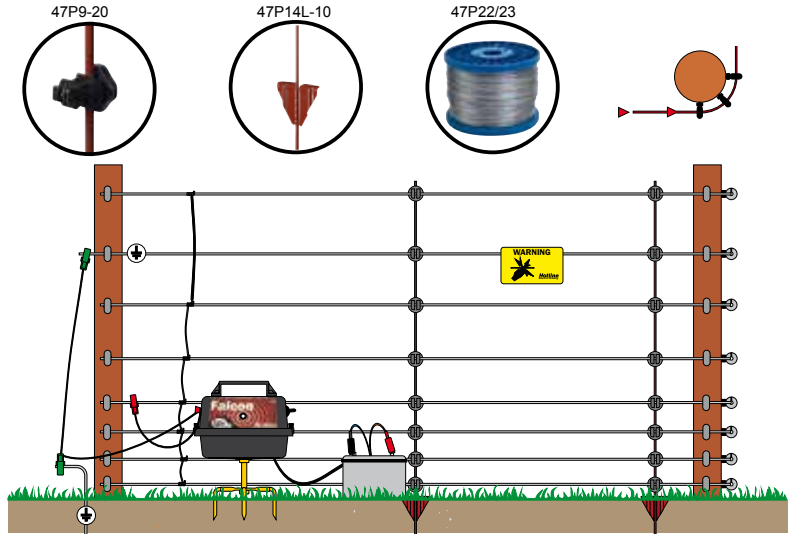


Fox protection

For those wishing to protect a small number of poultry and want to move the enclosure from time to time, netting is the best solution (page 28). It is also easy to re-enforce an existing mesh run with two offset wires, linking the mesh to the earth stake to provide a good contact for climbing animals. It is crucial to site your enclosure away from hedges, walls or out buildings which may provide a handy launch pad into your birds. Keeping the fence energised at all times will ensure the fox does not have the freedom to find a way in.

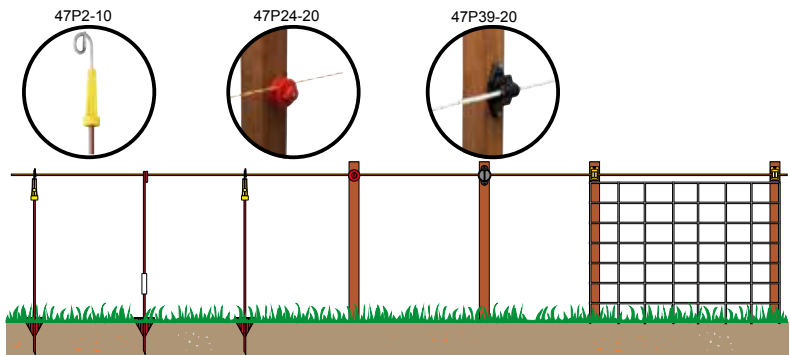


Predator systems using galvanised wire and metal posts are highly efficient and offer the flexibility to alter wire heights and add both hot wires and earth wires as needed. Using simple ring insulators around the outside of strainer posts will deter climbing.



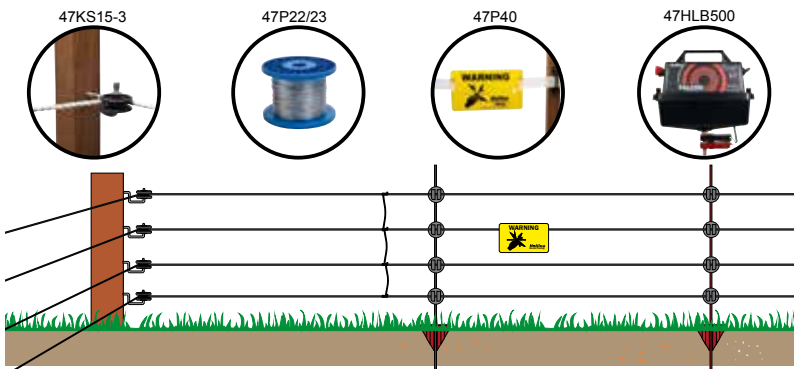


Livestock



Metal posts for strip grazing\*, insulators for polywire, short off sets for clearance for safe clearance of stock fence.  
\*Live posts are used intermittently to deter animals pushing over posts.

Badger



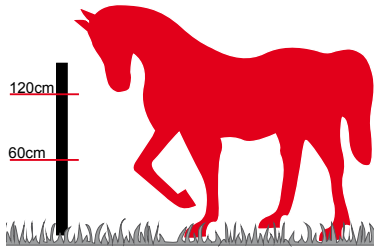
Area guide

Distances and areas are approximate only.

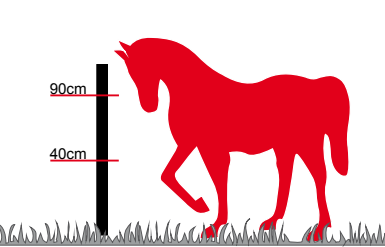
800m (1/2 Mile)	65 Hectares (160 Acres)	800m (1/2 Mile)	33 Hectares (80 Acres)	200m (220 yds)	1 Hectare (2 1/2 Acres)	100m	100m
				8 Hectares (20 Acres)	400m (1/4 Mile)	2 Hectares (5 Acres)	100m
						4 Hectares (10 Acres)	200m (220 yds)
							16 Hectares (40 Acres)
800m (1/2 Mile)		400m (1/4 Mile)		400m (1/4 Mile)			



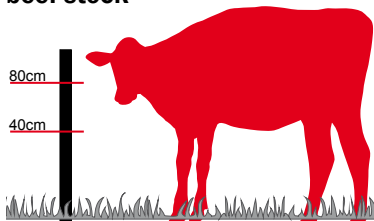
horse



pony



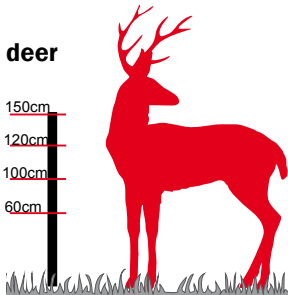
beef stock



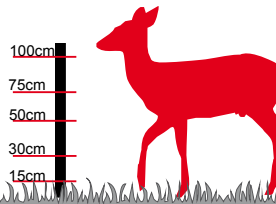
dairy strip grazing



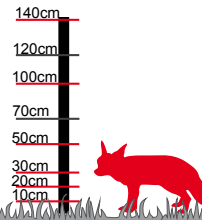
deer



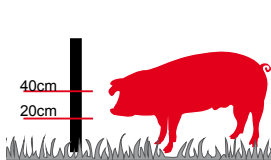
muntjac



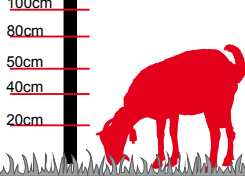
fox



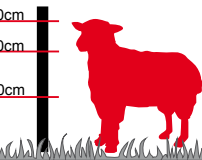
pig



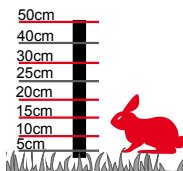
goat



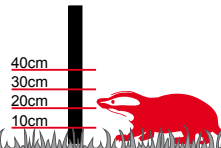
sheep



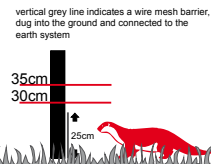
rabbit



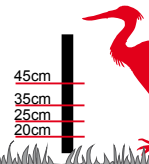
badger



otter



heron



the grey lines indicate earth wires

## Fence checker

If you are having problems with your fence the check list below should help you find the problem. Having a fence tester will help rule out elements of your system as problematic. It is not advisable to test the fence by touching it especially as your footwear will insulate you and misrepresent the true impact

### Is the energiser turned on?

yes



no



Please turn on. Turning the energiser on is essential for effective operation.

### Is the energiser emitting an audible 'tick'?

yes



no



Please phone our service dept.

### Is there a light flashing on the unit?

yes



no



Please phone our service dept.

**01626 331188**

**Your energiser seems to be working it is likely the fault is with your fence line or your earth.**

## check

### What type of fence are you using? Is your energiser powerful enough to power your fence requirement?

Refer to the energiser guidelines to see if it is operating within distance parameters. Certain type of wires/tapes are also only suitable over limited distances as they are higher in resistance. Netting is particularly thirsty for power, we recommend a minimum of 0.5 stored joules for 50m of poultry net.

### Is the fence line touching something that is taking power to earth?

Your wire, tape, rope or net needs to be as clear as possible from any external contact which is not insulated from the ground. This includes wooden posts, sheds, arks. Check the line is positioned in the insulators correctly, that all insulators are intact and undergrowth is as free as possible from the live lines. Any contact will draw power from your fence.

### Have you joins and/or breaks in the fence line ?


When joining sections of plastic tape, rope or wire it is preferable to use the correct connector or buckle. This ensures all of the metal conductors in one side connects with all of the conductors in the next and power is efficiently transferred without loss. The metal conductors can also break over time reducing efficiency, walk the line looking for patches of wear which may be causing a constriction in the voltage flow.

### Do you have an ineffective earth system?

Poor earthing results in loss of voltage. We recommend a minimum of one independent, 1 metre stake. Using the metal stand on an energiser will be variable because of the changeable topsoil conditions. A building earth should not be used or the frame of metal buildings. If you detect voltage on or get a shock from your earth stake it is indicative of an ineffective earth and can be rectified by adding further earth stakes and linking them together. Increasing the earth stakes in your system can only improve the performance of the fence.



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