

A person wearing a dark green long-sleeved shirt, dark shorts, and a brown hat is seen from the back, holding a spool of electric fence wire. The background is a vast, green field under a clear sky.

PelTM

DATAMARS

ELECTRIC FENCE SYSTEMS

2022 NEW ZEALAND PRODUCT RANGE

CONNECTING YOU AND YOUR LAND www.pel.co.nz

INCLUDES PEL GATES AND HAYES FENCE TOOLS

DATAMARS *Livestock*[™]

We are a division of Datamars, a global company. Datamars Livestock provides the platform and tools for today's farmers to better manage their livestock.

We know that when our customers are able to collect and use data to make informed on-farm decisions, they achieve better and more consistent results. Simply, accurate livestock management translates to profitable farming.

Datamars Livestock is here for farmers just like you. We are here to support you through the everyday requirements of livestock farming. Our innovative and well-developed technology works alongside you, in the real nitty-gritty, day to day tasks.

Datamars Livestock links tools that promote animal health, enable precision animal management and improve protein production.

These tools work together, communicating with each other and communicating with you.

When you're working the land, we're there with you. On farm and online, our digital platform connects you with information about your livestock, bolstering your intuition and enabling you to make precise, informed decisions.

Datamars Livestock. Our products work with each other, but most importantly – they work with you.

Tru-Test[™]
DATAMARS

Z
TAGS[™]
DATAMARS

Speedrite[™]
DATAMARS

STAFIX[™]
by Datamars

PeL[™]
DATAMARS

Prattley[™]
DATAMARS

HAYES[™]

TABLE OF CONTENTS

Since 1968 Pel has been at the forefront of rural development, bringing clever ideas to farmers and the agricultural industry. Using a common sense approach, Pel has spent decades making electric fencing easier and more efficient.

More importantly, we provide fence systems that last the distance, and work day in and day out, rain or shine.



Look for the horse logo on packaging to identify our equine product range.

Contents

Energizers	4	Permanent Fencing Checklist	31
Energizer Selection Guide	5-6	Insulators	32
Mains Energizers	7	Strainers	34
Unigizers™	10	Cable and Specialised Wire	36
Solar Systems and Kits	16	Outriggers	37
Portable Solar Energizers	20	Gate Hardware	38
Battery Energizers	23	Semi-Permanent Posts	41
Management Tools	27	General Accessories	41
Permanent Fencing	30	Temporary Fencing	44

For more information about any of our products, visit pel.co.nz or hayesfencing.com

Temporary Fencing Checklist	45	Made to Order Gates	60
Tape, Wire, Braid and Rope Products	46	Hayes Tools	62
Reels	48	Wire Strainers	63
Temporary Fence Posts	49	Wire Dispensers	63
General Accessories	51	Fence Post Tools	63
Earth Systems	52	ProCrimp & Crimp Sleeves	64
PEL FARM & YARD GATES	56	Accessories	64
Gates	57	Spare Parts	65



ENERGIZERS

You can rely on Pel to deliver maximum power. Pel energizers are the result of decades of intense research and development. Our energizer range features unique technologies which gives them a market leading edge.

CHOOSING YOUR PEL ENERGIZER.

A RANGE OF ENERGIZERS TO SUIT THE WAY YOU MANAGE YOUR FARM.



MAINS RANGE

A mains powered energizer is the most cost-effective, reliable way to power a permanent electric fence. Unigizers are also compatible with mains power.
Powers 640 – 850 acres (460 - 630 km) of fence



UNIGIZER™ RANGE

A Unigizer™ is a flexible, all-in-one mains and battery energizer with solar compatibility. It is a versatile solution that works across permanent, semi-permanent and temporary fencing.
Powers 15 – 270 acres (10 – 180 km) of fence



SOLAR RANGE

Ideal for isolated areas where no mains power is available. Suitable for strip grazing, permanent, semi-permanent and temporary fencing. Our Solar Systems and Kits provide remote power for permanent installations. Our Portable Solar Energizers are an all-in-one solution with built-in solar panel and battery. The Unigizer range is also solar compatible.
Powers up to 270 acres (1 – 180 km) of fence



BATTERY RANGE

Convenient, portable and quick to set up, battery units are suitable for temporary, strip grazing and semi-permanent fencing. Unigizers are also compatible with battery power.
Powers from 1 – 4 km of fence

Comparing Energizers

When evaluating energizers, be sure to compare them on the same basis. It is best to compare energizers by looking at the Maximum Output Energy (joules).

	What area/distance do you want the energizer to power?	How will you power your fence?	Recommended Energizer	Stored Energy (joules)	Maximum Output Energy (joules)
LARGE	Up to 1300 acres / 500 ha	Mains	86000W	128 J	86 J
	Up to 640 acres / 260 ha (460 km)	Mains	46000W	68 J	46 J
	Up to 420 acres / 170 ha	Mains	31000W	45 J	31 J
MEDIUM	Up to 270 acres / 110 ha (180 km)	Mains / Battery / Solar	418i	24 J	18 J
	Up to 180 acres / 70 ha (120 km)	Mains / Battery / Solar	412i	16 J	12 J
	Up to 90 acres / 30 ha (60 km)	Mains / Battery / Solar	406i	9 J	6 J
SMALL	Up to 45 acres / 18 ha (30 km)	Mains / Battery / Solar	403	4.5 J	3 J
	Up to 30 acres / 12 ha (20 km)	Mains / Battery / Solar	402	2.7 J	2 J
	Up to 15 acres / 6 ha (10 km)	Mains / Battery / Solar	401	1.4 J	1 J
	Up to 15 acres / 10 km	Solar	S1000	1.30 J	1.00 J
	Up to 8 acres / 5 km	Solar	S500	0.65 J	0.50 J
	Up to 3 acres / 2 km	Solar	S150	0.21 J	0.15 J
	Up to 1 km	Solar	S80	0.11 J	0.08 J
	Up to 2 km	Battery / Solar	101B	0.16 J	0.12 J
	Up to 1 km	Battery	5B	0.05 J	0.04 J

NOTE: Area recommendations are a guide only and in multiple wire terms. Performance will be affected by the condition of your fence. For installation instructions visit www.pel.co.nz/guides-advice.



MAINS ENERGIZERS

Pel mains powered energizers are high performing, powerful units designed for extensive electric fence systems.



PEL Mains Energizer features explained:



CYCLIC WAVE™ TECHNOLOGY

Provides a cleaner, more powerful pulse, maximising the energy that travels down the fence for optimal stock control.

BI-POLAR TECHNOLOGY

Enables the user to power a fence system to perform exceptionally well in dry, low conductive soil.

REMOTE CAPABLE

Using a Pel fence remote (with remote capable Pel energizers) enables you to switch the energizer on or off from anywhere along the fence line. This makes it easy to manage repairs and maintenance.

INDICATOR LIGHTS (VOLTAGE)

Easy to read light bar display provides an instant measure of the energizer output voltage for quick fence diagnostics. The LED display shows red when heavily loaded.

LOAD RESPONSE FEATURE

Controls energizer output to match conditions, providing maximum fence voltage for effective stock control.

COMPACT, RUGGED DESIGN

Hi-tech components and advanced research and development have enabled us to make powerful energizers in a compact, rugged polymer case.

LARGE TERMINALS

Mounted on the front of the energizer casing for convenience, these large terminals are easily adjusted and accept up to two fence wires. The slotted terminals make inserting wires and getting a good connection easy.

LOW INTERFERENCE

Cyclic Wave™ technology delivers outstanding fence performance and helps to minimise electromagnetic interference in line with international EMC standards.

3 YEAR WARRANTY

We stand behind the reliability of our products. Visit www.pel.co.nz for full warranty details.

Comparing Mains Energizers

	86000W	46000W	31000W
Area/distance you want the energizer to power	1300 acres 500 ha	640 acres 260 ha 460 km	420 acres 170 ha
Maximum Output Energy	86 J	46 J	31 J
Maximum Stored Energy	128 J	68 J	45 J
No Load Voltage	10,000 V	9,500 V	9,500 V
Medium Load Voltage @ 500 Ω	10,000 V	9,300 V	9,500 V
Heavy Load Voltage @ 100 Ω	10,000 V	8,900 V	7,300 V
Minimum Number of Earth Rods	12	9	8
Input Voltage	120 - 240 V	100 - 240 V	100 - 240 V



86000W

Powers up to 1300 acres / 500 hectares of fence
86 J maximum output energy (128 J stored energy)

- ⓐ Cyclic Wave™ technology Best in class terminal design
- ⓑ Bi-polar technology Datamars Livestock: Farm App
- ⓒ Remote capable* 3 year warranty
- ⓓ Indicator lights (voltage) Wi-Fi and Bluetooth capable
- ⓔ Compact, rugged design
- ⓕ Low interference
- ⓖ Load Response Feature
- ⓗ Voltage display

880 0010-972



46000W

Powers up to 640 acres / 260 ha (460 km) of fence
46 J maximum output energy (68 J stored energy)

- ⓐ Cyclic Wave™ technology Best in class terminal design
- ⓑ Bi-polar technology Datamars Livestock: Farm App
- ⓒ Remote capable* 3 year warranty
- ⓓ Indicator lights (voltage) Wi-Fi and Bluetooth capable
- ⓔ Compact, rugged design
- ⓕ Low interference
- ⓖ Load Response Feature
- ⓗ Voltage display

480 0002-024

*(Remote sold separately)



31000W

Powers up to 420 acres / 170 ha of fence
30J maximum output energy (45J stored energy)

- ⓐ Cyclic Wave technology Load Response Feature
- ⓑ Wi-Fi and Bluetooth capable Voltage display
- ⓒ Remote capable (Remote included) Best in class terminal design
- ⓓ Indicator lights (voltage) Datamars Livestock: Farm App
- ⓔ Compact, rugged design 3 year warranty
- ⓕ Low interference

880 0011-029

*Starter plan included free with purchase

DATAMARS Livestock.

Keep your fence performance close at hand

Monitor and control your Pel mains energizer from your smartphone, with the Datamars Livestock: Farm App.



UNIGIZERS™

Pel Unigizers give you a versatile 3-in-1 solution to manage your electric fence system. You have the flexibility to choose from either mains, battery or solar energy to power your electric fence. The 3-in-1 capability allows the Unigizer to be used for temporary, semi-permanent, permanent and strip grazing fence systems. It's never been easier to create an electric fencing solution.

Pel Unigizer™ features explained:



CYCLIC WAVE™ TECHNOLOGY

Provides a cleaner, more powerful pulse, maximising the energy that travels down the fence for optimal stock control.

BI-POLAR TECHNOLOGY

Enables the user to power a fence system to perform exceptionally well in dry, low conductive soil.

LOW ENERGY TERMINAL

Limits energy to below 1.5 J for use around buildings and houses.

SOLAR COMPATIBLE

Electrify your fence with solar power by connecting solar panels to any PEL Unigizer™. The solar panels charge the battery connected to the Unigizer, for reliable livestock control.

REMOTE CAPABLE

Using a Pel fence remote (with remote capable Pel energizers) enables you to switch the energizer on or off from anywhere along the fence line. This makes it easy to manage repairs and maintenance.

LCD VOLTAGE DISPLAY

Displays output voltage, battery voltage and earth voltage. LCD is backlit for viewing in poor light conditions. On selected models only.

INDICATOR LIGHTS (VOLTAGE AND BATTERY)

Easy to read light bar display provides an instant measure of the Unigizer output voltage and battery condition for quick fence diagnostics. The LED display shows red when heavily loaded.

BATTERY SAVER

Microprocessor technology automatically adjusts the output energy depending on the battery condition. This feature extends battery life and is particularly effective when used in solar installations.

DAY/NIGHT SENSOR

Automatically adjusts to contain or exclude animals based on day or night conditions.

LARGE TERMINALS

Mounted on the front of the energizer casing for convenience, these large terminals are easily adjusted and accept up to two fence wires. The slotted terminals make inserting wires and getting a good connection easy.

LOW INTERFERENCE

Cyclic Wave™ technology delivers outstanding fence performance and helps to minimise electromagnetic interference in line with international EMC standards.

EARTH MONITORING

Indicates earth system problems by monitoring the level of voltage around the earth system.

VERSATILE MOUNTING OPTIONS

Can be mounted on a wall, post or fence wire. Choose indoor or outdoor installation, depending on your fence location and power supply.

VERSATILE POWER OPTIONS

Can be used in mains, battery or solar power applications, providing convenient, versatile livestock control.

3 YEAR WARRANTY

We stand behind the reliability of our products. Visit www.pel.co.nz for full warranty details.

Comparing Unigizers™



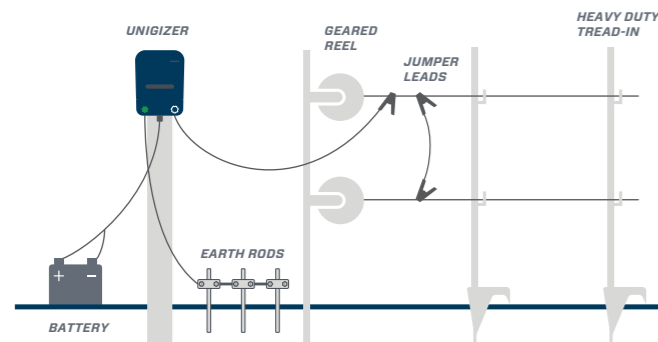
	418i	412i	406i	403	402	401
Area/distance you want the energizer to power	270 acres 110 ha 180 km	180 acres 70 ha 120 km	90 acres 36 ha 60 km	45 acres 18 ha 30 km	30 acres 12 ha 20 km	15 acres 6 ha 10 km
Maximum Output Energy	18 J	12 J	6 J	3 J	2 J	1 J
Maximum Stored Energy	24 J	16 J	9 J	4.5 J	2.7 J	1.4 J
No Load Voltage	9,900 V	9,100 V	9,500 V	11,400 V	11,000 V	9,800 V
Medium Load Voltage @ 500 Ω	7,700 V	7,700 V	6,700 V	6,200 V	5,900 V	5,300 V
Minimum Number of Earth Rods	6	6	4	3	3	2
Input Voltage	12 V / 110 - 240 V	12 V / 100 - 240 V	12 V / 100 - 240 V	12 V / 100 - 240 V	12 V / 100 - 240 V	12 V / 100 - 240 V

NOTE: Area recommendations are a guide only and in multiple wire terms. Performance will be affected by the condition of your fence. For installation instructions visit www.pel.co.nz/resources.

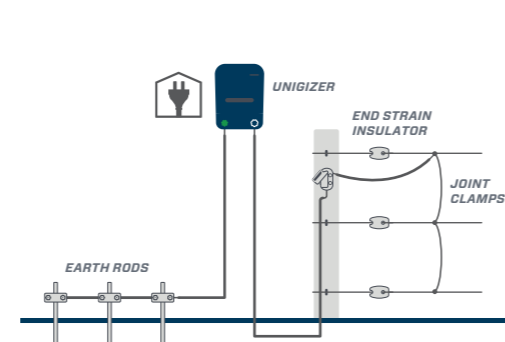
Unigizer Mounting Examples

Sample diagrams showing Unigizer and earth system. The number of earth rods will vary, depending on the Unigizer and soil conditions.

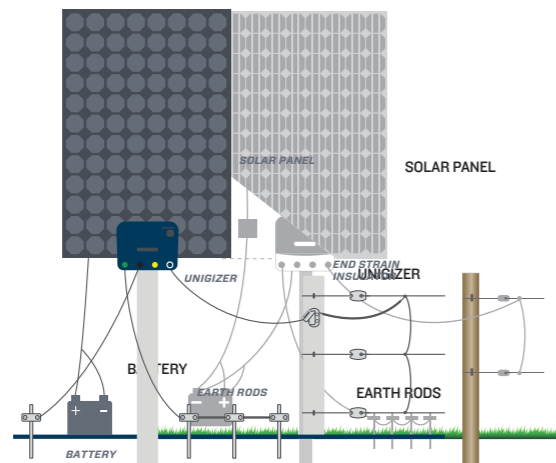
OUTDOORS WITH 12 V BATTERY



INDOOR DRY LOCATIONS WITH MAINS POWER ADAPTOR



OUTDOORS WITH 12 V BATTERY AND UNIGIZER SOLAR KIT



418i

Powers up to 270 acres / 110 ha (180 km) of fence
18 J maximum output energy (24 J stored energy)

- ⓐ Cyclic Wave™ technology
 - ⓑ Low energy terminal
 - ⓒ Solar compatible
 - ⓓ Remote capable (remote sold separately 880 0000-564)
 - ⓔ LCD voltage display
 - ⓕ Indicator lights (voltage and battery)
 - ⓖ Battery saver
 - ⓗ Day/Night sensor - pulse speed
- Large terminals
 - Low Interference
 - Earth monitoring
 - Versatile mounting and power options
 - Adjustable output power and pulse speeds
 - 3 year warranty.
 - Includes battery lead and mains power adaptor.

821015



412i

Powers up to 180 acres / 70 ha (120 km) of fence
12 J maximum output energy (16 J stored energy)

- ⓐ Cyclic Wave technology
 - ⓑ Bi-polar technology
 - ⓒ Solar compatible
 - ⓓ Remote capable (remote sold separately 880 0000-564)
 - ⓔ LCD voltage display
 - ⓕ Indicator lights (voltage and battery)
 - ⓖ Battery saver
 - ⓗ Day/Night sensor - pulse speed
 - Large terminals
 - Low Interference
- Earth monitoring
 - Versatile mounting and power options
 - Half voltage terminal
 - Adjustable output power and pulse speeds
 - 3 year warranty.
 - Includes battery lead and mains power adaptor.

880 0009-263



406i

Powers up to 90 acres / 36 ha (60 km) of fence
6 J maximum output energy (9 J stored energy)

- ⓐ Cyclic Wave technology
 - ⓑ Bi-polar technology
 - ⓒ Solar compatible
 - ⓓ Remote capable (remote sold separately 880 0000-564)
 - ⓔ LCD voltage display
 - ⓕ Indicator lights (voltage and battery)
 - ⓖ Battery saver
 - ⓗ Day/Night sensor - pulse speed
- Large terminals
 - Low Interference
 - Earth monitoring
 - Versatile mounting and power options
 - Half voltage terminal
 - Adjustable output power and pulse speeds
 - 3 year warranty.
 - Includes battery lead and mains power adaptor.

880 0002-403

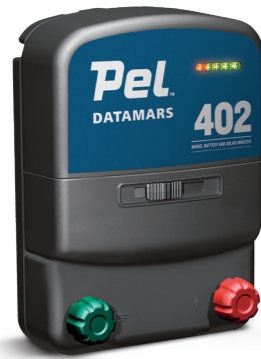


403

Powers up to 45 acres / 18 ha (30 km) of fence
3 J maximum output energy (4.5 J stored energy)

- ⓐ Solar compatible
 - ⓑ Indicator lights (voltage and battery)
 - ⓒ Day/Night sensor - pulse speed
 - Large terminals
 - Versatile mounting and power options
 - Adjustable output power and pulse speeds
 - 3 year warranty.
- Includes battery lead and mains power adaptor.

880 0001-516

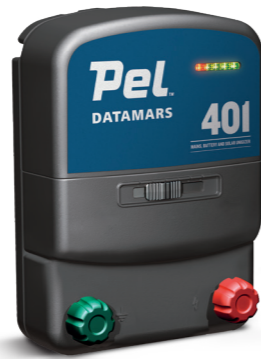


402

Powers up to 30 acres / 12 ha (20 km) of fence
2 J maximum output energy (2.7 J stored energy)

- ☀ Solar compatible
 - 📶 Indicator lights (voltage and battery)
 - 🌙 Day/Night sensor - pulse speed
 - Large terminals
 - Versatile mounting and power options
 - Adjustable output power and pulse speeds
 - 3 year warranty.
- Includes battery lead and mains power adaptor.

880 0002-094



401

Powers up to 15 acres / 6 ha (10 km) of fence
1 J maximum output energy (1.4 J stored energy)

- ☀ Solar compatible
 - 📶 Indicator lights (voltage and battery)
 - 🌙 Day/Night sensor - pulse speed
 - Large terminals
 - Versatile mounting and power options
 - Adjustable output power and pulse speeds
 - 3 year warranty.
- Includes battery lead and mains power adaptor.

880 0001-515





SOLAR SYSTEMS AND KITS

Pel offers a range of solar systems and kits for solar compatible energizers.

Unigizer™ Solar System features explained:



AUTOMATIC RUN TIME EXTENSION

Unigizers™ automatically adjust pulse speed when battery power level falls to a set level. This feature helps extend battery life particularly during long periods of bad weather.

MANUAL RUN TIME EXTENSION OPTIONS

Slow pulse speed, low power or slow at night modes are available to conserve battery power if needed during very long periods of bad weather.

BATTERY CHECK MODE

Easy to read light bar display provides an instant measure of the Unigizer output voltage and battery condition for quick fence diagnostics. The LED display shows red when heavily loaded.

CUSTOMISED SOLAR PANEL AND BATTERIES

Designed to handle the specific performance requirements of the solar system. This ensures the system keeps running in the worst winter conditions, providing reliable livestock control.

INTELLIGENT POWER REGULATOR

Designed to get the most out of the solar panel and minimise the loss of energy. It ensures energy obtained from the solar panel is maximised and efficiently distributed, delivering up to 30% more power to the batteries.

EASY SET UP AND INSTALLATION

Comprehensive and clear installation instructions are included, along with all the hardware required to mount solar panels and make electrical connections.

ROBUST DESIGN

Mounting brackets, electrical enclosures and connections are all designed to withstand the harsh environment.

Unigizer™ Solar Systems

Unigizer Solar Systems include everything you need to be up and running in a matter of hours.

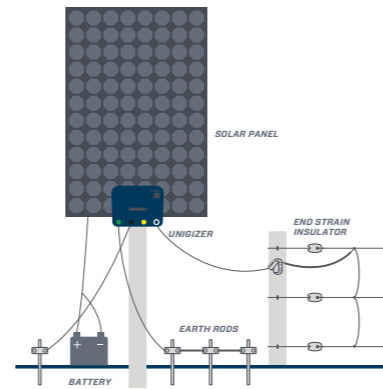


What is a Unigizer Solar System?

In a solar system installation your Unigizer is powered by a battery which is charged by the solar panel during the day.



Based on average sunlight hours in your region and the output of our Unigizers, your Pel retailer/distributor will identify the appropriate system for your needs.



EASY

The new Pel solar systems are easy to understand, easy to select and easy to install and operate. **We've done the work so you don't have to.**

RELIABLE

Pel solar systems have been designed to ensure the fence stays running in harsh winter conditions – **when you need it most.**

AFFORDABLE

Our solar systems are an affordable alternative to mains installations, providing the **flexibility** to power remote "off grid" sites and the **security** of having multiple Unigizers powering the farm.

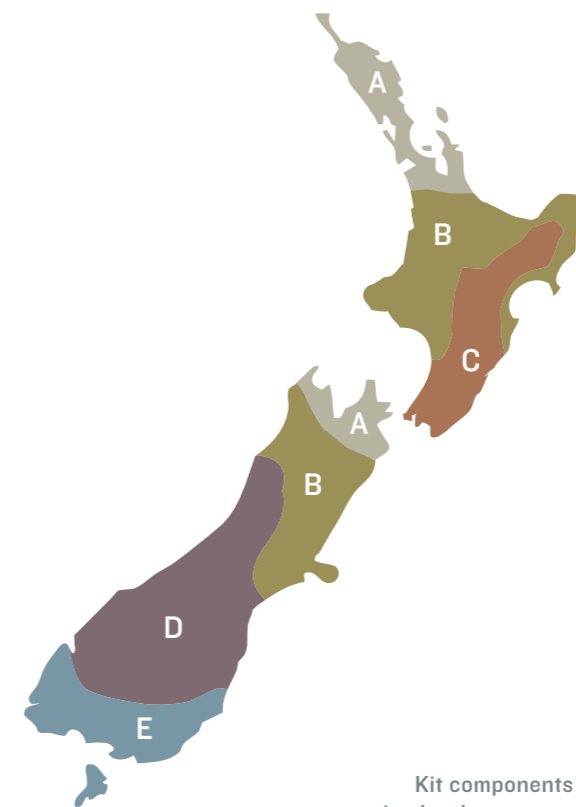
EACH SOLAR SYSTEM INCLUDES UNIGIZER, SOLAR PANEL, VOLTAGE REGULATOR, MOUNTING BRACKET AND HARDWARE, HEAVY DUTY BATTERY, BATTERY BOX, CONNECTORS, COMPASS AND FULL INSTRUCTIONS (EARTH RODS NOT INCLUDED).

- Durable, high performance solar panels with an aluminium frame and maximum power point tracking regulator for up to 30% more power
- Excellent return on investment with long life solar panel
- Batteries supplied are 6 V or 12 V heavy duty lead acid, designed to handle the specific performance requirements of a solar system
- Solar panel mounting assembly is designed to be easily mounted onto a wooden fence post. With easy adjustments for pointing north (compass included) and adjustable panel tilt to maximise solar gain
- Electrical connections are waterproof, quick fit and clearly labelled. Battery connections are bolt and quick connect terminals for easy, secure connection. Spare mounting hardware (nuts and bolts) are included (in case you drop one!)

Solar Kits

If you already own a Unigizer, Solar Kits can be purchased separately to allow for repairs or upgrades to existing installations. Pel Solar Kits contain all components required for your region, including: solar panel(s), regulator, batteries and mounting bracket. Unigizers sold separately.

UNIGIZER™ SOLAR SYSTEM SELECTION GUIDE



Kit components and mounting hardware may vary.



WHAT IS YOUR FENCING DISTANCE?

	10 km 15 acres (6 ha)	30 km 45 acres (18 ha)	60 km 90 acres (30 ha)	120 km 180 acres (70 ha)	180 km 270 acres (110ha)
Area A					
Area B					Solar system 418 with Energizer, 190W Panel, 200W Reg & 450Ah battery 880 0009-480
Area C	Solar system 401 with Energizer, 20W Panel, 20W Reg & 20Ah battery 880 0002-769	Solar system 403 with Energizer, 40W Panel, 50W Reg & 56Ah battery 880 0010-672	Solar system 406i with Energizer, 135W Panel, 100W Reg & 144Ah battery 880 0010-673	Solar system 412i with Energizer, 190W Panel, 200W Reg & 225Ah battery 880 0010-675	
Area D					Solar system 418 with Energizer, 270W Panel, 400W Reg & 450Ah battery 880 0009-479
Area E					
Minimum number of Earth Rods	2	3	4	6	6

WHERE IS YOUR PROPERTY?



PORTABLE SOLAR ENERGIZERS

Pel portable solar energizers incorporate an internal battery and are perfect for strip grazing or powering a small area. These self contained energizers feature an integrated solar panel and a sophisticated battery management system in a rugged carry case.

Portable Solar Energizer features explained:



REQUIRES MINIMAL SUNLIGHT

Energizer requires minimal sunlight hours to keep battery at or near full charge. When fully charged selected portable energizers can operate for up to 21 days without sunlight.

INDICATOR LIGHT

Located on the rear of energizer indicates the solar energizer is working.

BATTERY SAVER

Microprocessor technology automatically adjusts the output energy depending on the battery condition. This feature is designed to extend battery life.

RUGGED DESIGN

Strong aluminium solar panel frame and UV resistant case provides maximum weather protection for extreme environments.

HIGH OUTPUT VOLTAGE

Up to 9,500 V output.

BATTERY RECHARGE

Energizer intelligently manages battery recharging during fine weather.

RECHARGEABLE INTERNAL BATTERY

Rechargeable internal sealed 12 V, 7 Ah battery included (optional in some markets). Maximum battery life is 3+ years.

STEEL AND WOOD POST MOUNTING OPTIONS

High impact enclosure is designed to securely mount on Y-posts and wood posts.

3 YEAR WARRANTY*

We stand behind the reliability of our products. Visit www.pel.co.nz for full warranty details.

Comparing Portable Solar Energizers

	S1000	S500	S150	S80
Area/distance*	10 km 15 acres	5 km 8 acres	2 km 3 acres	1 km
Maximum output energy	1.00 J	0.50 J	0.15 J	0.08 J
Maximum stored energy	1.30 J	0.65 J	0.21 J	0.11 J
No load voltage	9,600 V	9,800 V	9,300 V	7,300 V
Light load voltage at 2000 Ω	7,100 V	6,200 V	4,100 V	3,200 V
Standard load voltage at 1000 Ω	5,600 v	4,500 v	2,600 V	2,100 V
Minimum number of earth rods	1	1	1	1
Input voltage	12 V internal battery		6 V internal battery	

NOTE: Area recommendations are a guide only and in multiple wire terms. Performance will be affected by the condition of your fence. For installation instructions visit www.pel.co.nz/resources.

* Excludes battery. Batteries fitted inside energizers have a 90 day warranty.



S1000

Powers up to 10 km / 6 miles of fence
1.0 J maximum output energy (1.30 J stored energy)

- ☀ Requires minimal sunlight
 - 🔦 Indicator light (pulse)
 - 🔋 Battery saver
 - 🛡 Rugged design
 - ⚡ High output voltage
 - 🔋 Rechargeable internal battery
 - 🔩 Steel and wood post mounting options
- 🔘 On/Off switch
 - 📅 3 year warranty
 - ☀ Comes with built-in solar panel and 12 V 7 amp hour battery
 - ⚡ Powers

880 0002-720



S500

Powers up to 5 km / 3 miles of fence
0.50 J maximum output energy (0.65 J stored energy)

- ☀ Requires minimal sunlight
 - 🔦 Indicator light (pulse)
 - 🔋 Battery saver
 - 🛡 Rugged design
 - ⚡ High output voltage
 - 🔋 Rechargeable internal battery
 - 🔩 Steel and wood post mounting options
- 🔘 On/Off switch
 - 📅 3 year warranty
 - ☀ Comes with built-in solar panel and 12 V 7 amp hour battery
 - ⚡

880 0002-719



S150

Powers up to 2 km / 1.2 miles of fence
0.15 J maximum output energy (0.21 J stored energy)

- ☀ Requires minimal sunlight
 - 🔦 Indicator light (pulse)
 - 🔋 Battery saver
 - 🛡 Rugged design
 - ⚡ High output voltage
 - 🔋 Rechargeable internal battery
 - 🔩 Steel and wood post mounting options
- 🔘 On/Off switch
 - 📅 3 year warranty
 - ☀ Comes with built-in solar panel and 6 V 4 amp hour battery
 - ⚡

880 0002-619

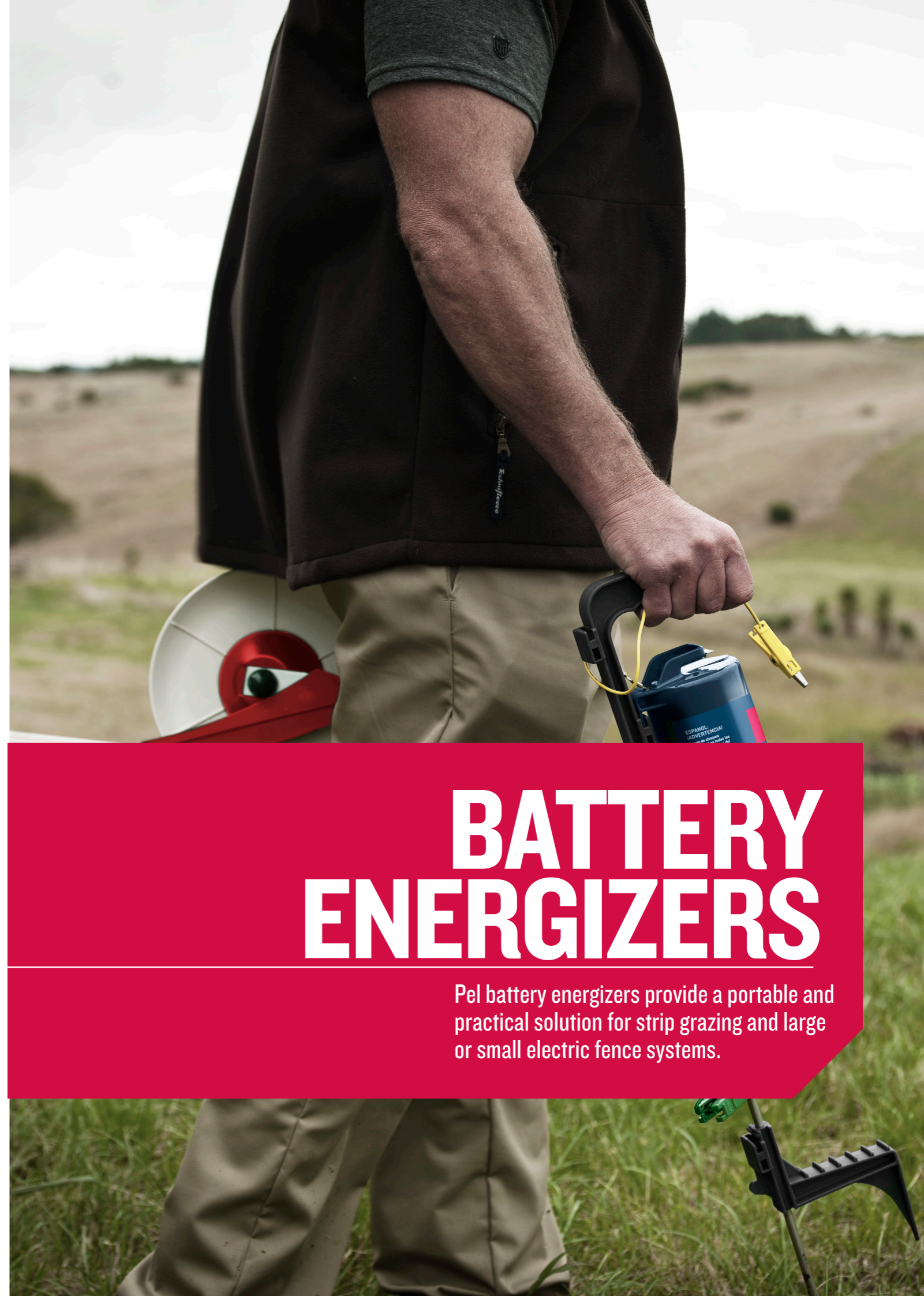


S80

Powers up to 1 km / 0.6 miles of fence
0.08 J maximum output energy (0.11 J stored energy)

- ☀ Requires minimal sunlight
 - 🔦 Indicator light (pulse)
 - 🔋 Battery saver
 - 🛡 Rugged design
 - ⚡ High output voltage
 - 🔋 Rechargeable internal battery
 - 🔩 Steel and wood post mounting options
- 🔘 On/Off switch
 - 📅 3 year warranty
 - ☀ Comes with built-in solar panel and 6 V 4 amp hour battery
 - ⚡

880 0002-620



BATTERY ENERGIZERS

Pel battery energizers provide a portable and practical solution for strip grazing and large or small electric fence systems.

Pel Battery Energizer features explained:



6 POSITION ROTARY SWITCH

Six operating modes to choose from, with adjustable power levels to help conserve and better manage battery life, ensuring the battery lasts longer.

FAST AND SLOW OPTIONS

Adjustable pulse settings allows energizer to be set to slow or fast mode to extend battery life.

DAY/NIGHT SENSOR

Automatically adjusts pulse speed to contain or exclude animals based on day or night conditions. The energizer can be set to automatically send out fast pulse speed during the day for livestock control and slow at night to manage diurnal animals.

BATTERY SAVER

Microprocessor technology automatically adjusts the output energy depending on the battery condition, extending battery life.

SIMPLE SET UP

Clips directly to fence wire for convenient, fast set up.

DUAL POWER SUPPLY OPTIONS

Can be powered by internal or external batteries for greater flexibility.

3 STAGE LIGHT BAR

Easy to read light bar provides a quick indication of output voltage and battery power level (when set to battery check mode).

DURABLE WEATHER AND UV RESISTANT CASE

UV resistant case provides maximum weather protection for extreme environments.

3 YEAR WARRANTY

We stand behind the reliability of our products. Visit www.pel.co.nz for full warranty details.

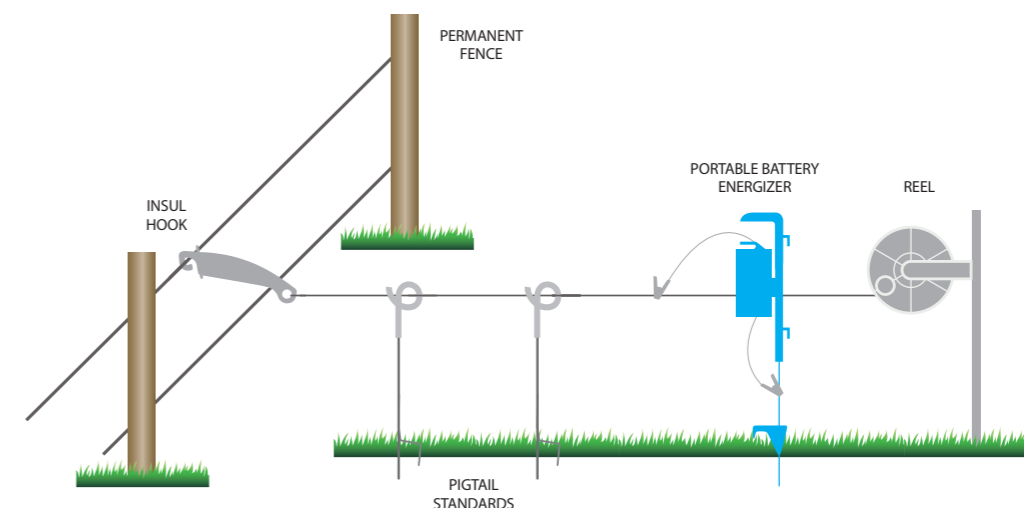
Comparing Battery Energizers



	STRIP GRAZING ENERGIZERS	
	101B	5B
Area /distance you want the energizer to power	2 km	1 km
Maximum Output Energy	0.12 J	0.04 J
Maximum Stored Energy	0.16 J	0.05 J
No Load Voltage	8,000 V	5,800 V
Light Load Voltage @ 2,000 Ω	4,500 V	2,800 V
Standard Load Voltage @ 1,000 Ω	3,000 V	1,800 V
Minimum Number of Earth Rods	1	1
Battery Type (Sold Separately)	4 x D batteries or 12 V or 6 V external battery	2 x D batteries

NOTE: Area recommendations are a guide only and in multiple wire terms. Performance will be affected by the condition of your fence. For installation instructions visit www.pel.co.nz/guides-advice.

Portable Battery Energizer Mounting Example





101B with stand



101B

POWERFUL AND VERSATILE STRIP GRAZING UNIT

Powers up to 2 km of fence
0.12 J maximum output energy (0.16 J stored energy)

Simple set up
 On/Off switch
 Fast and slow options
 Optional tread-in stand
 Flashing LED
 3 year warranty.

Also available with stand.

880 0000-374 101B
 880 0001-945 101B WITH STAND

101B with solar

EXTEND THE LIFE OF YOUR BATTERIES*

Powers up to 2 km of fence
0.12 J maximum output energy (0.16 J stored energy)

Simple set up
 On/Off switch
 Fast and slow options
 Optional tread-in stand
 Flashing LED
 3 year warranty.

* Energizer is powered by solar panel during the day and by batteries overnight.

** Solar panel cannot be used when using 12 V external battery to power the 101B.

Includes 1 W solar panel.**
 880 0000-142



5B

Powers up to 1 km of fence
0.04 J maximum output energy (0.05 J stored energy)

Simple set up
 On/Off switch
 Battery saver
 Intelligent battery management to extend battery life
 3 year warranty.

880 0000-334



MANAGEMENT TOOLS

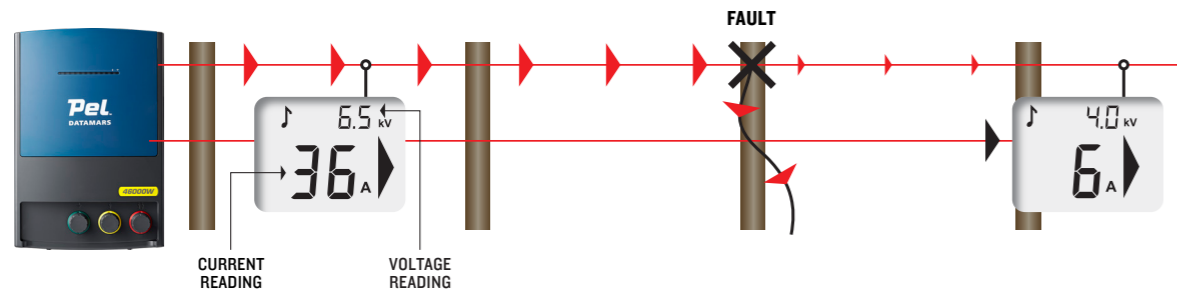
To get the maximum performance from an energizer you need to be able to measure and monitor your fence system effectively.

No matter how good an energizer is, if the fence line is badly insulated, has shorts, or is poorly earthed, it will perform well below its optimum. Advances in remote and fault-finding technology mean you can quickly locate and fix faults on your fence with a minimum of fuss.

Fault finding explained:

HOW TO USE

Start near the energizer's lead-out wires with your Pel Remote with Fault Finder or your Pel Fault Finder. Move down the fence line following the arrow away from the energizer. Take readings at regular intervals and at any junction point.



The previous current reading is shown briefly in the top right corner of the screen so that you can compare readings. If the current reading suddenly falls, you have gone past a fault. Retrace your steps to find the fault. Note that after a few seconds the previous current reading will be replaced with the present voltage reading (kV).



TRACKER FENCE REMOTE WITH FAULT FINDER

- Quickly and easily locates faults along the fence line
- Large back-lit display
- Displays current, voltage and current direction simultaneously
- Displays previous current reading to compare values
- Audible current indicator
- Convenient belt clip
- Insulated, rugged, water resistant case
- Replaceable 9 V battery
- Low battery warning system
- Automatic energizer polarity detection
- Fault Finding option can be used with all energizers
- Turns compatible Pel energizers on or off from anywhere along the fence line
- 1 year warranty.*

880 0000-564



PV100 TRACKER FAULT FINDER

- Quickly and easily locates faults along the fence line
- Large back-lit display
- Displays current, voltage and current direction simultaneously
- Displays previous current reading to compare values
- Audible current indicator
- Convenient belt clip
- Insulated, rugged, water resistant case
- Replaceable 9 V battery
- Low battery warning system
- Automatic energizer polarity detection
- Can be used with all energizers
- 1 year warranty.*

880 0000-709


[Watch our how-to video online
www.youtube.com/PELElectricFencing](http://www.youtube.com/PELElectricFencing)

* Excludes battery. Batteries fitted inside management tools have a 90 day warranty.

OTHER TOOLS



PV18 DIGITAL VOLTMETER

- Enables accurate testing of fence and energizer earth system
- Earth probe provides accurate fence to ground voltage measurements
- Readings from 200 V to 9,900 V in 100 V increments
- Rugged design
- Automatic On/Off
- Replaceable 9 V battery with a life of up to 18 months
- 1 year warranty.*

880 0000-379



5 LIGHT TESTER

- Handy, pocket-sized unit for testing general fence condition
- Shows if fence is live and measures approximate voltage
- Readings from 2,000 V to 8,000 V
- Easy to read voltage markings
- No battery required
- 1 year warranty.

880 0000-033



PA36 FENCE ALERT™

- Warning light begins flashing when voltage is too low
- Visible up to 1.5 km away
- Rugged impact and water resistant case
- Can be used on any type of electric fence including steel wire and portable poli products
- Works with all energizers
- No ground wires or external power sources required
- Battery life 5 years on standby or up to 2 weeks of continuous flashing
- 2 preset voltage triggers can be selected
- Replaceable CR2032 lithium button cell battery
- 1 year warranty.*

880 0000-891

* Excludes battery. Batteries fitted inside management tools have a 90 day warranty.

PERMANENT ELECTRIC FENCING

Permanent Electric Fencing is a flexible, durable and economical fencing solution. Easy to install and operate with less maintenance.

It is also a safer fencing solution for your stock. Animal contact with the fence is reduced and it's less likely to injure should a fence be breached.

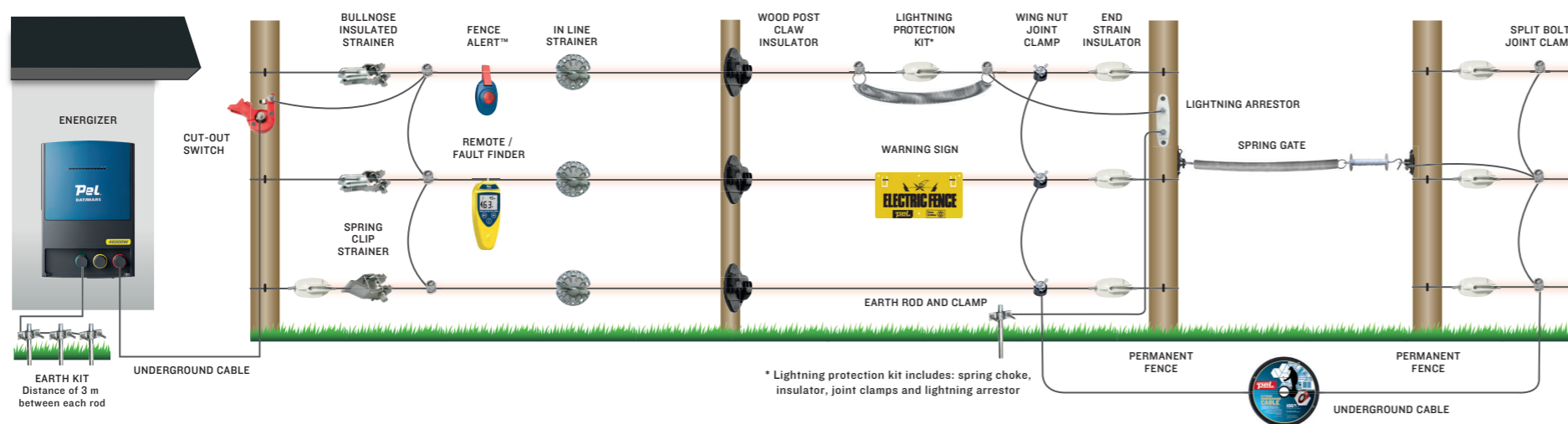


Pel has a range of equine products for use in permanent electric fencing. Look for the horse logo to identify the Pel equine range.



Permanent Electric Fence System

These products are recommended to ensure top performance of your permanent electric fence system. Diagram is an example only. For more details on permanent electric fencing design visit www.pel.co.nz/resources.



CHECKLIST

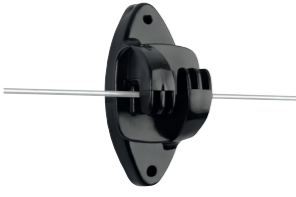




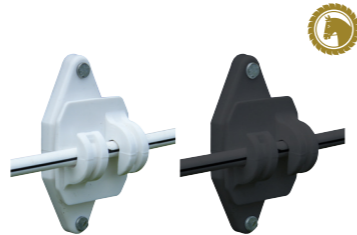
Do you have:

- ✓ Mains, Unigizer™ or battery powered Energizer
- ✓ Earth kit
- ✓ Cut-out switches
- ✓ Fence alert(s)
- ✓ Remote/Fault Finder
- ✓ Wire strainers
- ✓ Post insulators
- ✓ Lightning protection kit*
- ✓ Warning sign(s)
- ✓ Joint clamps
- ✓ End strain insulators
- ✓ Underground cable
- ✓ Gate hardware

Insulators

Pel insulators are reliable, strong and UV stabilised for long life.
Pel indicators come with a 10 year warranty, unless indicated differently.

WOOD POST INSULATORS

		
<p>PI85 WOOD POST CLAW INSULATOR</p>	<p>PI83 WOOD POST CLAW INSULATOR</p>	<p>POWER STAPLE WOOD POST CLAW INSULATOR</p>
<ul style="list-style-type: none"> - Rugged claw design - UV stabilised for long life - Spark guard prevents arcing and increased distance from wire to post reduces risk of leakage - Suitable for up to 4 mm (8 ga) wire, poliwire or braid. <p>880 0000-290 PK 25 880 0000-815 PK 125 880 0002-327 CT 200 880 0001-302 PK 1,000</p>	<ul style="list-style-type: none"> - Rugged claw design - UV stabilised for long life - Spark guard prevents arcing and increased distance from wire to post reduces risk of leakage - Suitable for up to 4 mm (8 ga) wire, poliwire or braid. <p>880 0001-318 CT 500</p>	<ul style="list-style-type: none"> - Designed for use with STOCKade ST400/ST400i fencing staplers, guide attachment and 45/50 mm length STOCKade divergent point barbed fencing staples - Speed and precision - a world-first electric fencing installation system - Fire staples safely with both hands clear of the wood post - Fast and safe reloading to minimise down time - Robust claw design holds the wire securely. <p>880 0000-541 INSULATOR PK 125 880 0002-137 INSULATOR PK 1,000 880 0000-888 GUIDE ATTACHMENT PK 1</p>
		
<p>PI81 WOOD POST PINLOCK INSULATOR</p>	<p>PI84 WOOD POST STAPLE ON INSULATOR</p>	<p>JUMBO WOOD POST CLAW INSULATOR</p>
<ul style="list-style-type: none"> - Rugged pinlock design conveniently allows easy removal of wire - UV stabilised for long life - Spark guard prevents arcing and increased distance from wire to post reduces risk of leakage - Suitable for up to 4 mm (8 ga) wire, poliwire or braid. <p>880 0000-903 PK 25 880 0001-026 PK 125 880 0001-893 CT 200 880 0001-301 PK 1,000</p>	<ul style="list-style-type: none"> - Ideal for smaller farms - UV stabilised for long life - Single piece moulding for easy application - Suitable for up to 2.5 mm (12.5 ga) wire. <p>Includes diamond point staple.</p> <p>880 0000-893 PK 50</p>	<ul style="list-style-type: none"> - Use with up to 8 mm rope, braid, or electrified sighter wire - UV stabilised for long life - Large spark guard prevents arcing and increased distance from wire to post reduces risk of leakage - 2 year warranty. <p>880 0001-323 WHITE PK 25 880 0009-580 BLACK PK 25</p>

STEEL POST INSULATORS

		
<p>WOOD POST WIDE TAPE INSULATOR</p>	<p>WOOD POST WIDE TAPE CORNER/END INSULATOR</p>	<p>PI71 Y-POST PINLOCK INSULATOR</p>
<ul style="list-style-type: none"> - Use with tape up to 40 mm, rope, braid or electrified sighter wire - UV stabilised for long life - 2 year warranty. <p>880 0000-198 PK 25</p>	<ul style="list-style-type: none"> - Can be used as a corner or end strain insulator - Can be used to tension tape - Use with up to 40 mm tape - UV stabilised for long life - 2 year warranty. <p>880 0001-324 PK 2</p>	<ul style="list-style-type: none"> - Rugged self locking, tapered pins for easy removal of wires - Pinlock design easily connects to steel posts - UV stabilised for long life - Spark guard prevents arcing and increased distance from wire to post reduces risk of leakage - Suitable for up to 4 mm (8 ga) wire, poliwire or braid. <p>880 0001-081 PK 25 880 0000-370 PK 125 880 0002-452 CT 200</p>
	<h2>END STRAIN INSULATORS</h2>	
<p>POST CAP TOPPER</p>		
<ul style="list-style-type: none"> - Side and top fixing options for tape up to 40 mm, poliwire, rope, braid or electrified sighter wire - UV stabilised for long life - Easily attaches to T and Y-posts - 2 year warranty. <p>880 0002-489 PK 10</p>	<p>PI44 END STRAIN INSULATOR WHITE</p> <ul style="list-style-type: none"> - Reinforced glass filled polymer for maximum strength - Suitable for high strain use - Superior UV stabilisation for long life - Deep grooves hold wire in place and prevent twisting - Long leakage path prevents arcing - Use with most sizes of fence wire. <p>880 0000-390 PK 25</p>	<p>PI45 END STRAIN INSULATOR BLACK</p> <ul style="list-style-type: none"> - Suitable for medium strain use - UV stabilised for long life - Deep grooves hold wire in place and prevent twisting - Long leakage path prevents arcing - Use with most sizes of fence wire. <p>880 0001-180 PK 25</p>



Watch our how-to videos online
www.youtube.com/PELElectricFencing

ROD POST INSULATOR

INSULTUBE



MULTI-FIT ROD POST INSULATOR

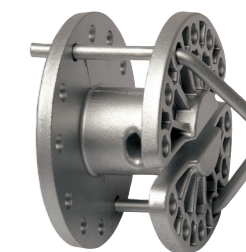
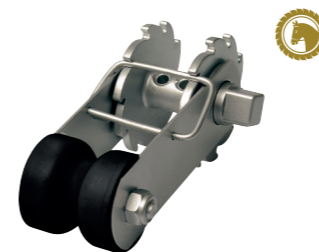
- Suitable for up to 4 mm (8 ga) wire or up to 7 mm rope, braid and poliwire
- Back end slot with anti slip-out hooks holds tape up to 12 mm
- UV stabilised for long life
- Flexible design and heavy duty screw nut for a secure fit
- Spark guards prevent arcing and increased distance from wire to post reduces risk of leakage
- Fits rod posts 6 mm to 16 mm in diameter
- 2 year warranty.

880 0001-217 PK 25

INSULTUBE

- Economical insulator fastened with staples (staples not included)
- Available pre-cut for convenience.

880 0000-470 4 MM X 12 M ROUND COIL P131
880 0001-077 4 MM X 100 M ROUND COIL P132
880 0001-079 4 MM X 100 MM PK 100
880 0001-035 4 MM X 100 MM PK 50
880 0001-080 4 MM X 142 MM TRIANGLE PK 50
880 0001-076 6 MM X 100 M ROUND COIL P130



PA8-B BLACK INSULATED STRAINER

- Suitable for medium strain use
- Spring clip design for easy tensioning
- Heavy duty insulator protects against arcing
- UV stabilised for long life
- Rust resistant
- Galvanised frame with aluminium spool
- Rugged and easy to use.

880 0001-088 PK 10

BULLNOSE INSULATED STRAINER

- Suitable for high strain use
- Spring clip design for easy tensioning
- Heavy duty insulator protects against arcing
- UV stabilised for long life
- Rust resistant
- Galvanised frame with aluminium spool
- Rugged and easy to use.

880 0000-101 PK 10

IN LINE STRAINER

- Suitable for high strain use
- Can be added to fence without cutting wire
- Designed to work with PA17 In Line Strainer Handle or I2 mm drive ratchet
- Rust resistant
- Rugged and easy to use
- Light weight, high strength aluminium construction.

880 0000-054 PK 25

Strainers

All Pel Strainers come with a 1 year warranty.

UNINSULATED STRAINERS



PA8 SPRING CLIP STRAINER

- Suitable for high strain use
- Can be used as an end strain or in-line strainer
- Spring clip design for easy tensioning
- Rust resistant
- Galvanised frame with aluminium spool
- Rugged and easy to use.

880 0001-087 PK 10
804491 DRUM 600

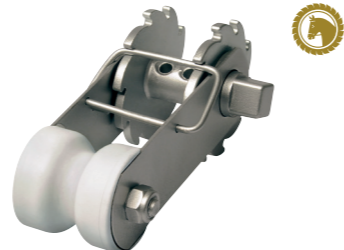


INSULATOR FOR SPRING CLIP STRAINER

- Attaches to uninsulated PA8 Spring Clip Strainer to create insulated end strain
- Reinforced glass filled polymer for maximum strength
- Suitable for high strain use
- Superior UV stabilisation for long life
- Deep grooves hold wire in place and prevent twisting
- Long leakage path prevents arcing
- Use with most sizes of fence wire.

880 0000-673 PK 10

INSULATED STRAINERS



PA8-W WHITE INSULATED STRAINER

- Suitable for high strain use
- Spring clip design for easy tensioning
- Heavy duty insulator protects against arcing
- UV stabilised for long life
- Rust resistant
- Galvanised frame with aluminium spool
- Rugged and easy to use.

880 0000-027 PK 10





PA17 IN LINE STRAINER HANDLE

- Galvanised handle for In Line Strainer
- Rust resistant
- Rugged and easy to use.

880 0000-099 EA

Cable and Specialised Wire

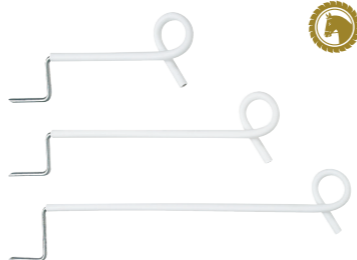
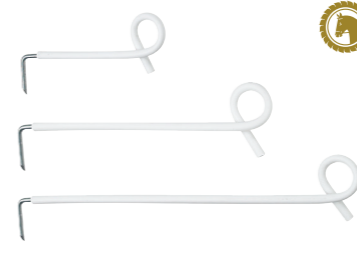

Durable, reliable and UV stabilised for long life. We provide a 1 year warranty on all our cable and specialised wire products.

		
<p>2.7 MM EXTREME UNDERGROUND CABLE</p> <ul style="list-style-type: none"> - Ideal for large properties with high powered energizers - 2.7 mm (12 ga) aluminium coated steel for extreme conductivity - 3 x more conductive than 2.5 mm (12.5 ga) Premium Underground Cable - 8 x more conductive than 1.6 mm (16 ga) Underground Cable - Use with PEL Joint Clamps - Resistance of 11.5 ohms / km - Easy to strip with soft steel core for greater flexibility - Delivers more power over long distances. <p>880 0000-704 100 M SPOOL 880 0000-352 500 M SPOOL</p>	<p>2.5 MM PI36 PREMIUM UNDERGROUND CABLE</p> <ul style="list-style-type: none"> - Suitable for all properties - 2.5 mm (12.5 ga) galvanised steel for greater conductivity - 3 x more conductive than 1.6 mm (16 ga) Underground Cable - Use with PEL Joint Clamps - Resistance of 35 ohms / km - Easy to strip with soft steel core for greater flexibility. <p>880 0000-264 25 M SPOOL 880 0001-065 50 M SPOOL 880 0000-774 100 M SPOOL 880 0000-356 500 M SPOOL</p>	<p>1.6 MM PI35 UNDERGROUND CABLE</p> <ul style="list-style-type: none"> - Ideal for small properties with low powered energizers - 1.6 mm (16 ga) galvanised steel - Use with PEL Joint Clamps - Resistance of 90 ohms / km - Easy to strip with soft steel core for greater flexibility. <p>880 0001-162 25 M SPOOL 880 0001-163 50 M SPOOL 880 0001-164 100 M SPOOL</p>
		
<p>PI96 ALUMINIUM COATED LEAD-OUT WIRE</p> <ul style="list-style-type: none"> - Ideal for long lead-out and high powered energizer installations - 2.7 mm (12 ga) aluminium coated steel for extreme conductivity - 3 x more conductive than standard 2.5 mm (12.5 ga) galvanised wire - Resistance of 11.5 ohms / km - Ideal for use in coastal and other corrosive environments. <p>880 0000-051 1,000 M SPOOL</p>	<p>ELECTRIFIED SIGHTER WIRE</p> <ul style="list-style-type: none"> - High tensile wire coated in a conductive carbon compound to deliver low voltage shocks - Highly visible to help prevent animal entanglement. <p>880 0001-884 WHITE 250 M 880 0000-683 BLACK 250 M</p>	



Outriggers

Pel Outriggers are backed by a 1 year warranty. They help preserve the life of existing conventional fences. Simply attach Outriggers and run an electrified wire through them to keep stock off the fence.

WOOD POST OUTRIGGERS

		
<p>SIDE FIXING</p> <ul style="list-style-type: none"> - Galvanised spring steel construction - UV stabilised for long life. <p>880 0000-024 150 MM PK 5 PI92 880 0000-079 270 MM PK 5 PI95 880 0001-936 400 MM PK 5 PI94</p>	<p>TOP FIXING</p> <ul style="list-style-type: none"> - Galvanised spring steel construction - UV stabilised for long life. <p>880 0001-635 150 MM PK 5 PI91 880 0000-018 270 MM PK 5 880 0000-129 400 MM PK 5 PI93</p>	<p>PI90 DOUBLE ENDED</p> <ul style="list-style-type: none"> - Galvanised spring steel construction - UV stabilised for long life - Available length: 860 mm. <p>880 0000-023 860 MM PK 10</p>

STANDOFFS

	
<p>INSULATED WIRE STANDOFF</p> <ul style="list-style-type: none"> - Ideal for installing electric fencing onto existing non-electrified fences - Constructed from high tensile galvanised steel - UV stabilised insulated tubing. <p>880 0001-634 230 MM LONG-TAIL PK 5 PI61 880 0001-914 230 MM SHORT-TAIL PK 5 PI62 880 0001-958 300 MM SHORT-TAIL PK 5 PI66</p>	<p>PI63 PINLOCK WIRE STANDOFF SHORT-TAIL</p> <ul style="list-style-type: none"> - Ideal for installing electric fencing onto existing non-electrified fences - Constructed from high tensile galvanised steel - UV stabilised pinlock insulator for easy wire insertion and removal - Available length: 230 mm. <p>880 0002-311 230 MM PK 5</p>

Gate Hardware

All Pel gate products come with a 1 year warranty.



REFLECTIVE TAPE GATE

- Includes reflective tape for high visibility and safety across gateways
- Electrifies gateways up to 5 m wide
- Robust flat profile handle with strong stainless steel backbone for high conductivity and corrosion resistance
- Versatile and easy to install.

Includes: dual purpose gate handle, 2 x Heavy Duty Wood Post Pinlock Insulators, buckle, activator plate and reflective tape.

880 0009-907 PK 1



PA53 TAPE GATE - RED/WHITE

- Electrifies gateways up to 5 m wide
- Versatile and easy to install
- Fully insulated, heavy duty handle with protective guards and non-slip grip
- Designed for maximum visibility with 40 mm wide tape
- Tape contains 15 stainless steel strands for high conductivity.

Includes: heavy duty insulated handle, 2 x Wood Post Pinlock Insulators, buckle, activator and 5 m of Premium Super I5 Gate Tape.

880 0001-093 PK 1



PA54 TAPE GATE HARDWARE KIT - COMPRESSION BLUE

- For custom length gateways
- For use with Premium Super I5 Gate Tape
- Fully insulated, Compression Gate Break Handle with heavy duty spring that compresses under tension, preventing over-stretching
- Versatile and easy to install.

Includes: heavy duty compression handle, 2 x Wood Post Pinlock Insulators, buckle and activator (excludes tape).

880 0002-239 PK 1



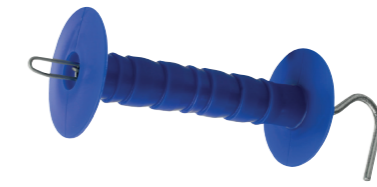
BUNGY GATE HARDWARE KIT

- For customer length gateways
- For use with Pel Bungy Cord
- Versatile and easy to install
- Fully insulated handle with protective guards and non-slip grip.

Includes: insulated handle, 2 x Wood Post Pinlock Insulators, activator, galvanised hook and High Visibility Flag (excludes Bungy Cord).

880 0002-194 PK 1
880 0002-233 PK 5

HANDLES



PA51C COMPRESSION SPRING GATE BREAK HANDLE

- High tensile, heavy duty spring compresses under tension, preventing over-stretching
- Non-slip insulated grip
- High density UV stabilised polyethylene for long life
- Heavy duty, rugged body with large protective guards.

880 0000-895 PK 20



PA52 SPRING GATE

- Electrifies gateways up to 8 m wide
- Versatile and easy to install
- Fully insulated, heavy duty handle with protective guards and non-slip grip
- Galvanised rust resistant spring.

Includes: heavy duty insulated handle, 2 x Wood Post Pinlock Insulators, activator and galvanised spring.

880 0000-403 5 M WIDE PK 1
880 0001-006 8 M WIDE PK 1
880 0000-696 5 M REPLACEMENT SPRING PK 1
880 0000-508 8 M REPLACEMENT SPRING PK 1



PA52-U ULTRA SPRING GATE

- Electrifies gateways up to 5 m wide
- Versatile and easy to install
- Fully insulated, heavy duty handle with protective guards and non-slip grip
- Yellow rust resistant spring.

Includes: heavy duty insulated handle, 2 x Wood Post Pinlock Insulators, activator and yellow spring.

880 0001-092 5 M WIDE PK 1
880 0001-490 5 M REPLACEMENT SPRING YELLOW PK 1



BUNGY GATE

- Electrifies gateways and races up to 7 m or 11 m wide
- Versatile and easy to install
- Fully insulated handle with protective guards and non-slip grip
- Bungy Cord with 4 stainless steel strands provides extreme stretch, high conductivity and maximum shock exposure.

Includes: insulated handle, 2 x Wood Post Pinlock Insulators, activator, galvanised hook, Bungy Cord and High Visibility Flag.

880 0000-967 3.5 M - 7 M WIDE PK 1
880 0001-474 5.5 M - 11 M WIDE PK 1



GATE BREAK HANDLE

- Non-slip insulated grip
- High density UV stabilised polyethylene for long life
- Replaceable heavy duty galvanised spring.

880 0000-551 PK 20
880 0001-310 REPLACEMENT SPRING PK 10



DUAL PURPOSE GATE HANDLE

- Ideal for use in high traffic gateways
- Robust flat profile
- Strong stainless steel backbone for high conductivity and corrosion resistance
- Versatile – fasten tape or bungy through the simple knot-free design
- Unique hook design enables a smooth and secure connection to an activator plate.

880 0000-438 CT 20



ZAMMR HANDLE

- Convenient, multi-purpose handle
- Use as a live hook or an insulated hook in temporary fencing, or as a gate break handle
- Versatile – connect temporary fence wire, tape or bungy
- Strong stainless steel backbone for high conductivity and corrosion resistance
- Single piece over-mould ensures a fully insulated handle
- Durable design for use in the toughest conditions.

880 0001-521 CT 30

OTHER GATE PRODUCTS



PA52-A ACTIVATOR

- For use with all Pel gate break handles
- 3 connection points for flexibility
- Long lasting hot dipped galvanised steel.

880 0000-384 PK 10



REFLECTIVE GATE TAPE AND BUNGY CORD

- For high visibility and superior safety across gateways
- Reflective strands woven through the centre
- Tape includes 10 stainless steel strands for greater conductivity
- Bungy cord includes a multi strand core and double sheath for UV resistance and long life.

880 0009-911 REFLECTIVE TAPE 40 MM 50 M ROLL
880 0009-912 REFLECTIVE BUNGY 50 M SPOOL



BUNGY CORD

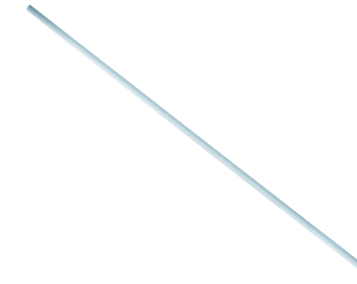
- Heavy duty electrified shock cord with supreme elasticity
- 4 stainless steel wires cross over 10 x per cm for maximum conductivity
- Suitable for all livestock
- UV stabilised for long life.

880 0000-140 BUNGY CORD 50 M SPOOL
880 0000-085 BUNGY CORD 200 M SPOOL

Semi-Permanent Posts

All Pel semi-permanent posts and accessories come with a 1 year warranty.

FIBREGLASS POST



FIBREGLASS POST

- UV stabilised, silicon bonded fibreglass rods
- Available in a range of sizes.

880 0002-199 10 MM X 1.2 M PK 10
880 0001-192 10 MM X 1.5 M PK 10
880 0002-396 10 MM X 2 M PK 10
880 0001-966 13 MM X 1.2 M PK 10
880 0000-072 13 MM X 1.5 M PK 10
880 0000-104 13 MM X 2 M PK 10

POST ACCESSORIES



EZI CLIP

- Use with 10 mm or 13 mm fibreglass posts.

880 0002-383 10 MM PK 50
880 0002-341 13 MM PK 50

General Accessories

All Pel general accessories come with a 1 year warranty.

JOINT CLAMPS



HEAVY DUTY CLAW JOINT CLAMP

- Use to create electrical connections between wires
- Galvanised construction for superior rust resistance
- Claw design allow multiple connecting wires
- Suitable for wire up to 4 mm (8 ga).

880 0001-411 PK 20



PA46 SPLIT BOLT JOINT CLAMP

- Use to create electrical connections between wires
- Solid zinc for superior corrosion resistance
- Ideal for coastal or other harsh environments
- Suitable for wire up to 2.7 mm (12 ga).

880 0000-593 PK 20



PA47 WING NUT JOINT CLAMP

- Use to create electrical connections between wires
- Galvanised construction for superior rust resistance
- Ideal for most farm conditions
- Suitable for wire up to 4 mm (8 ga).

880 0001-486 PK 20



Watch our how-to videos online www.youtube.com/PELElectricFencing

HIGH VISIBILITY FLAG

- For use on any gateway including tape, spring or bungy.

880 0002-317 PK 10



PAS100 TAPE GATE BUCKLE

- For use with Premium Super I5 Gate Tape
- Attaches to PI81 Wood Post Pinlock Insulator.

880 0001-183 PK 10






BUNGY HOOK


- Galvanised hook for bungy gate anchor.

880 0001-055 BUNGY HOOK PK 10

	<p>CUT-OUT SWITCH</p> 	<p>FLOOD PROTECTION</p> 
<p>L-SHAPE JOINT CLAMP</p> <ul style="list-style-type: none"> - Ensures a highly conductive connection for wire up to 4 mm - Use to create electrical connections between wires - High-spec galvanised construction for superior rust resistance - Ideal for most farm conditions. <p>880 0002-029 PK 20</p>	<p>PA40 CUT-OUT SWITCH HEAVY DUTY RED</p> <ul style="list-style-type: none"> - Long life stainless steel contacts - Easily sighted on/off position - UV stabilised for long life. <p>880 0000-962 CT 10</p> <p> Watch our how-to videos online www.youtube.com/PELElectricFencing</p>	<p>PA38 FLOODGATE CONTROLLER</p> <ul style="list-style-type: none"> - Limits energy loss from heavy growth or flooding - Fully sealed from insects and the environment - Ideal for use near creeks, river beds and areas prone to flooding. <p>880 0001-090 PK 1</p>

<p>EARTHING</p> 		
<p>EARTH KIT</p> <ul style="list-style-type: none"> - Ensures effective connection between energizer and earth, maximising the performance of your electric fence. <p>Pack of 3 includes: 3 x 2 m galvanised earth rods and 3 x galvanised earth clamps.</p> <p>880 0000-858 PK 3</p>	<p>EARTH ROD / EARTH CLAMP</p> <ul style="list-style-type: none"> - Solid galvanised construction. <p>880 0001-414 GALVANISED EARTH ROD 2 M EA 880 0002-339 GALVANISED EARTH CLAMP PK 3</p>	<p>EZE EARTH</p> <ul style="list-style-type: none"> - 2m galvanised steel rod - No heavy driving needed - Simply fit into a heavy-duty battery drill & drill directly into the soil - Auger screw end for dynamic insertion into all soil types - Easily removable for re-use <p>880 0010-962 880 0010-963 (1X EARTH ROD)</p>

 Watch our how-to videos online www.youtube.com/PELElectricFencing

<p>WARNING SIGN</p> 	<p>LIGHTNING PROTECTION KIT</p> 
<p>PA7 WARNING SIGN</p> <ul style="list-style-type: none"> - Clear warning for safety - Signs may be required by law – refer to your local bylaws for more information. <p>880 0000-114 CT 100</p>	<p>LIGHTNING PROTECTION KIT</p> <ul style="list-style-type: none"> - Kit contains components needed to block and divert most voltage spikes from lightning strikes. <p>Includes: spring choke, insulator, joint clamps and lightning arrester.</p> <p>880 0001-187 LIGHTNING PROTECTION KIT PK 1 880 0001-058 REPLACEMENT LIGHTNING ARRESTOR PK 1</p>



TEMPORARY ELECTRIC FENCING

Temporary Electric Fencing helps increase production through providing a quick, easy and inexpensive way to subdivide paddocks.

This portable fencing solution gives you the versatility to strip graze, make temporary paddocks or pens and protect trees and crops from damage by stock.



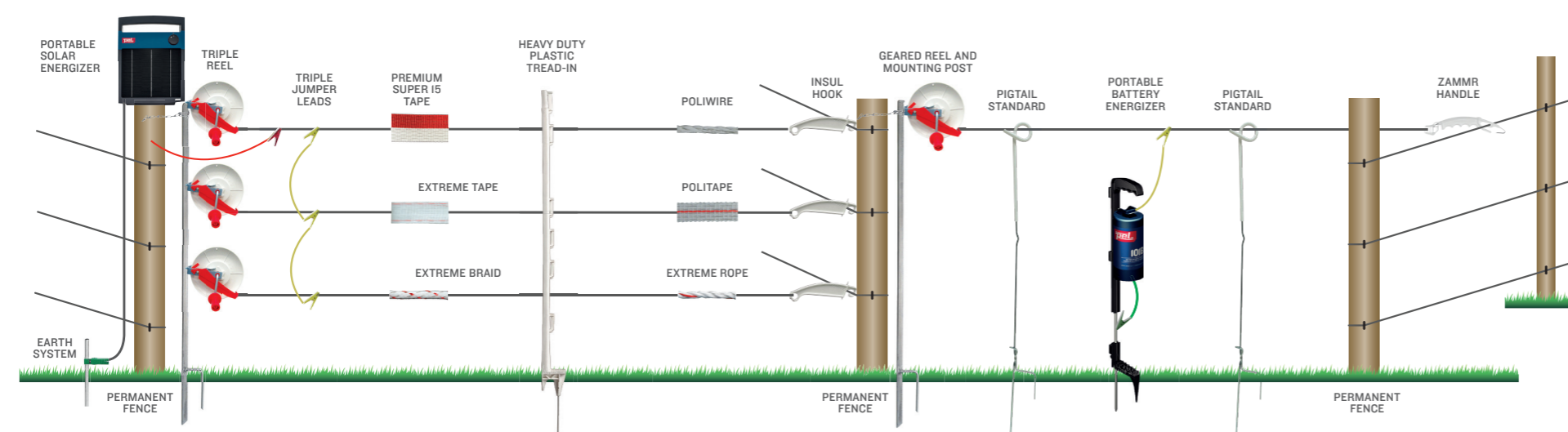
Pel has a range of equine products for use in temporary electric fencing. Look for the horse logo to identify the Pel equine range.



Temporary Electric Fence System

Diagram is an example only. For more details on temporary fencing design visit www.pel.co.nz/resources.

Strip grazing for controlled rotational grazing is an excellent method to improve pasture utilisation. For best early re-growth of pasture, back-fencing of areas already grazed is recommended. Generally, temporary fences are moved daily. The distance moved depends on the number of animals being grazed and the quality and quantity of pasture available. These products are recommended to ensure top performance of your temporary electric fence system.



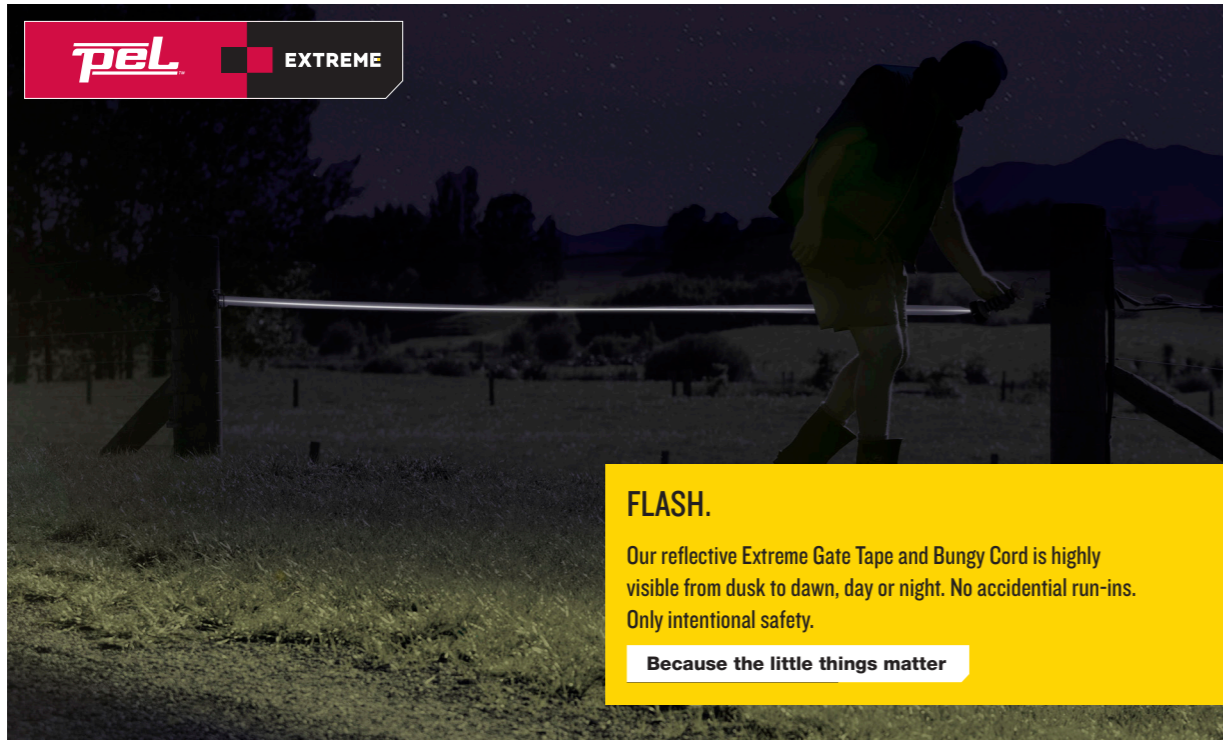
CHECKLIST

Do you have:

- ✓ Battery or solar powered Energizer
- ✓ Reel(s)
- ✓ Tape, wire, braid or rope
- ✓ Tread-ins or pigtail standards
- ✓ Insul hooks or ZAMMR handle
- ✓ Jumper leads
- ✓ Mounting post(s)

Tape, Wire, Braid and Rope

All Pel poli products are UV stabilised for long life and come with a 1 year warranty.



Tape 12 mm

	FEATURES	RESISTANCE (OHMS / KM)	VOLTAGE AT START OF FENCE (V)	VOLTAGE AT 100 M (V)	VOLTAGE AT 500 M (V)	VOLTAGE AT 1 KM (V)
EXTREME TAPE 12 MM 880 0001-501 WHITE 400 M ROLL	<ul style="list-style-type: none"> - 6 tinned copper strands - 106 x more conductive than standard Politape - Increased shocking and stopping power, ideal for long lengths of temporary and semi-permanent fence - Heavy duty tape, tightly woven for superior strength - 12 mm width with white and red weave for ultimate visibility - UV stabilised for long life. 	65	8,000	7,900	7,500	7,100
PREMIUM SUPER 8 TAPE 12 MM 880 0001-502 WHITE 200 M ROLL 880 0001-861 WHITE 400 M ROLL	<ul style="list-style-type: none"> - 8 interwoven stainless steel strands - 1.3 x more conductive than standard Politape - Ideal for temporary fencing and strip grazing - Tightly woven for superior strength - 12 mm width with white and red weave for high visibility - UV stabilised for long life. 	5,200	8,000	3,800	1,200	700
POLITAPE 12 MM 300720 ORANGE 200 M ROLL PA720 880 0001-100 WHITE 200 M ROLL PA72W 880 0001-101 WHITE 400 M ROLL PA73W	<ul style="list-style-type: none"> - 6 stainless steel strands - Ideal for temporary fencing and strip grazing - Tightly woven for superior strength - 12 mm width with white and orange weave for high visibility - UV stabilised for long life. 	6,900	8,000	3,200	950	500

Tape 40 mm

	FEATURES	RESISTANCE (OHMS / KM)	VOLTAGE AT START OF FENCE (V)	VOLTAGE AT 100 M (V)	VOLTAGE AT 500 M (V)	VOLTAGE AT 1 KM (V)
EXTREME TAPE 40 MM 880 0002-301 WHITE 200 M ROLL	<ul style="list-style-type: none"> - 5 tinned copper strands - 5 stainless steel strands - 99 x more conductive than standard Politape - Ideal for long distance, permanent and semi-permanent fencing - 40 mm width with white and orange weave for ultimate visibility - UV stabilised for long life. 	70	8,000	7,900	7,500	7,000

Tape 40 mm

	FEATURES	RESISTANCE (OHMS / KM)	VOLTAGE AT START OF FENCE (V)	VOLTAGE AT 100 M (V)	VOLTAGE AT 500 M (V)	VOLTAGE AT 1 KM (V)
PREMIUM SUPER 15 TAPE 40 MM 880 0001-094 RED/WHITE 50 M PA55-RW	<ul style="list-style-type: none"> - 15 stainless steel strands - 2.3 x more conductive than standard Politape - Ideal for permanent and semi-permanent fencing or high traffic areas such as gateways - 40 mm width for high visibility - UV stabilised for long life. 	3,000	8,000	5,000	2,000	1,100
REFLECTIVE TAPE 80 0009-911 REFLECTIVE 50 M ROLL	<ul style="list-style-type: none"> - For high visibility and superior safety - 5 reflective strands woven through the centre - 10 stainless steel strands - specifically designed for horses, cattle and large, fast moving animals - UV stabilised for long life 	4,000	8,000	4,400	1,600	900
PREMIUM TAPE 40 MM 880 0002-480 ORANGE 50 M ROLL 880 0002-414 WHITE 50 M ROLL 880 0001-848 WHITE 200 M ROLL	<ul style="list-style-type: none"> - 10 stainless steel strands - 1.7 x more conductive than standard Politape - Ideal for permanent and semi-permanent fencing or high traffic areas such as gateways - 40 mm width for high visibility - UV stabilised for long life. 	4,000	8,000	4,400	1,600	900

Wire

	FEATURES	RESISTANCE (OHMS / KM)	VOLTAGE AT START OF FENCE (V)	VOLTAGE AT 100 M (V)	VOLTAGE AT 500 M (V)	VOLTAGE AT 1 KM (V)
EXTREME WIRE 880 0002-434 WHITE 200 M ROLL 880 0001-899 WHITE 400 M ROLL	<ul style="list-style-type: none"> - 6 tinned copper strands - 105 x more conductive than standard Poliwire - Increased shocking and stopping power, ideal for long lengths of temporary and semi-permanent fence - UV stabilised for long life - White with red weave for ultimate visibility. 	65	8,000	7,900	7,500	7,100
POLIWIRES 880 0001-095 ORANGE 200 M ROLL PA70-O 880 0001-096 WHITE 200 M ROLL PA70-W 880 0001-097 ORANGE 500 M ROLL PA71-O 880 0001-098 WHITE 500 M ROLL PA71-W	<ul style="list-style-type: none"> - 6 stainless steel strands - An economical choice for temporary fencing and strip grazing - UV stabilised for long life - Available in white or orange. 	6,800	8,000	3,400	1,000	550

Braid

	FEATURES	RESISTANCE (OHMS / KM)	VOLTAGE AT START OF FENCE (V)	VOLTAGE AT 100 M (V)	VOLTAGE AT 500 M (V)	VOLTAGE AT 1 KM (V)
EXTREME BRAID 7 MM 880 0002-254 WHITE 7 MM 200 M ROLL	<ul style="list-style-type: none"> - 4 tinned copper strands for ultimate conductivity - 4 stainless steel strands for ultimate strength - 68 x more conductive than standard Poliwire - Increased shocking and stopping power, ideal for long lengths of temporary and semi-permanent fence - White with red weave for ultimate visibility - UV stabilised for long life. 	100	8,000	7,900	7,300	6,700

Rope

	FEATURES	RESISTANCE (OHMS / KM)	VOLTAGE AT START OF FENCE (V)	VOLTAGE AT 100 M (V)	VOLTAGE AT 500 M (V)	VOLTAGE AT 1 KM (V)
EXTREME ROPE 6 MM 880 0002-148 WHITE 200 M ROLL	<ul style="list-style-type: none"> - 3 tinned copper strands - 3 stainless steel strands - 52 x more conductive than standard Poliwire - Ideal for temporary fencing and strip grazing - 6 mm diameter for greater visibility and strength - UV stabilised for long life. 	130	8,000	7,800	7,100	6,300

Reels

Pel reels are unrivalled for their reliability and performance. They all feature a rugged, sturdy design. Pel geared reels are made of high impact polymers and galvanised steel frames and come with a 5 year bobbin UV warranty.



EXTREME GEARED REEL

- Holds 500 m of poliwire or 200 m of 12 mm politape
- 3:1 Gear ratio with a solid steel crank
- Wire tracking for even wire distribution across the bobbin
- Drag adjustment to prevent over run and tangling
- Isolated power flow through the reel frame
- New hook design for enhanced stability on fence or bike
- UV stabilised for long life
- 3 Year warranty

880 0004-620 EA



EXTREME PRE-WOUND GEARED REEL

- Two geared reel product options, pre-wound with poliwire or tape (12 mm)
- Comes with ZAMMR Handle

880 0004-629 WITH POLITAPE S8 200 M EA
880 0004-632 WITH POLIWIRE 6SS 500 M EA



GEARED MEGA REEL

- Holds 1,000 m poliwire or 400 m politape (12 mm)
- 3:1 gear ratio with a solid steel crank
- Frame insulated from spool
- Use with carry handle or on mounting post
- UV stabilised for long life
- Galvanised steel frame
- Rugged steel locking system.

880 0000-916 EA



GEARED REEL

- Holds 500 m poliwire or 200 m politape (12 mm)
 - 3:1 gear ratio with a solid steel crank
 - Frame insulated from spool
 - Use with carry handle or on mounting post
 - UV stabilised for long life
 - Galvanised steel frame
 - Rugged steel locking system
 - Wire and tape guide to prevent tangling.
- Includes: ZAMMR Handle

880 0000-378 EA



PRE-WOUND GEARED REEL

- Geared Reel pre-wound with Poliwire or Premium Super 8 Tape (12 mm).

Includes: ZAMMR Handle

880 0009-468 PREMIUM SUPER 8 TAPE (12 MM) WHITE 200 M EA
880 0009-469 POLIWIRE WHITE 500 M EA



PR4E ECONO REEL

- Holds 500 m poliwire or 200 m politape (12 mm)
- 1:1 gear ratio
- Frame insulated from spool
- Use with carry handle or on mounting post
- UV stabilised for long life
- Galvanised steel frame
- Rugged steel locking system
- Innovative notch frame design for easy and secure fence attachment.

880 0001-024 WITH CARRY HANDLE EA



PRE-WOUND PR4E ECONO REEL

- PR4E Econo Reel pre-wound with Poliwire or Politape (12 mm).

880 0002-325 POLITAPE WHITE 200 M EA
880 0009-592 POLIWIRE WHITE 400 M EA



PRE-WOUND TRIPLE REEL

- 3 Econo Reels pre-wound with 500 m of orange Poliwire
- Includes: mounting post

PRODUCT CODE:
880 0004-600 (500M)

MOUNTING POST



PR8 GALVANISED REEL MOUNTING POSTS

- Sturdy galvanised steel construction.

Includes: anchor chain to secure to fence post.

880 0000-482 3 HOLE EA

Temporary Fence Posts

All Pel temporary fence posts come with a 1 year warranty.

TREAD-INS



PA81 NEVABREAK TREAD-IN

- Galvanised spring steel construction
- Up to 5 positions for poliwire, tape up to 40 mm and 3 mm braid
- Available in 1,100 mm total height (900 mm fence height), 1,500 mm total height (1,300 mm fence height) and 1,700 mm total height (1,500 mm fence height)
- UV stabilised for long life
- Unique rugged crimped foot design for durability
- Extra long length suitable for equine
- Attach PI87/PI88 insulators to create multiple fence heights.

880 0001-633 1,100 MM PK 10 PA81
880 0002-387 1,500 MM PK 10 PA81-L
880 0000-037 1,700 MM PK 10 PA81-XL

PIGTAIL



PA41 STEEL FOOT PIGTAIL STANDARD

- Galvanised spring steel construction
- UV stabilised for long life
- Unique rugged crimped foot design for durability
- 760 mm fence height (960 mm total height) with the PA41 and PA41-HD
- 900 mm fence height (1,100 mm total height) with the PA41L-HD
- Attach PI87/PI88 insulators to create multiple fence heights.

880 0001-632 760 MM PK 10 PA41
880 0000-108 900 MM HEAVY DUTY PK 10 PA41L-HD

TREAD-INS



HEAVY DUTY TREAD-IN

- Designed for maximum strength and versatility
- Suitable for poliwire, tape up to 40 mm or rope and braid up to 8 mm
- 9 positions available in 860 mm fence height (1,060 mm total height); 11 positions available in 1,290 mm fence height (1,500 mm total height)
- UV stabilised for long life
- Rugged "H" profile post
- Galvanised metal spike
- Extra long length suitable for equine.

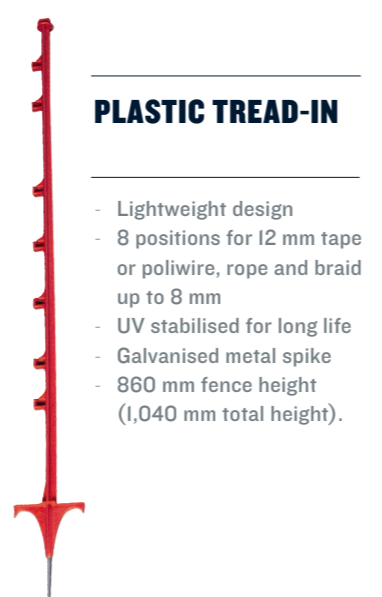
880 0001-503 WHITE 860 MM CT 50
880 0001-504 WHITE 1,290 MM CT 50



PA80 PLASTIC TREAD-IN

- Strong lightweight construction
- Tread-in directly over steel spike for ease of use
- 6 positions for tape up to 40 mm, poliwire or 3 mm braid
- UV stabilised for long life
- Galvanised metal spike
- 860 mm fence height (1,060 mm total height).

880 0001-102 WHITE CT 50



PLASTIC TREAD-IN

- Lightweight design
- 8 positions for 12 mm tape or poliwire, rope and braid up to 8 mm
- UV stabilised for long life
- Galvanised metal spike
- 860 mm fence height (1,040 mm total height).

880 0002-344 RED CT 50

POST ACCESSORIES



TREAD-IN INSULATOR

- Clip on to PA41 Pigtail and PA81 Nevabreak posts
- Designed for Poliwire and Politape up to 40 mm.

880 0001-082 SMALL 12 MM PK 25 P187
880 0001-841 LARGE 40 MM PK 25 P188

General Accessories

All Pel general accessories come with a 1 year warranty.

LEADS

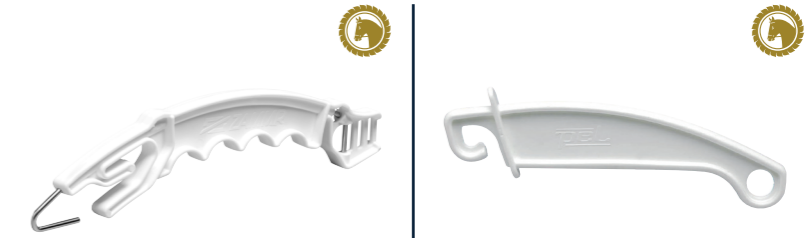


JUMPER LEADS

- Recommended for ensuring good electrical connections in temporary fencing
- Joint clamps are recommended for permanent electric fencing.

880 0000-580 SINGLE JUMPER LEAD EA PA30
880 0000-441 TRIPLE JUMPER LEAD EA PA31

HANDLES



ZAMMR HANDLE

- Convenient, multi-purpose handle
- Use as a live hook or an insulated hook in temporary fencing, or as a gate break handle
- Versatile – connect temporary fence wire, tape or bungy
- Strong stainless steel backbone for high conductivity and corrosion resistance
- Single piece over-mould ensures a fully insulated handle
- Durable design for use in the toughest conditions.

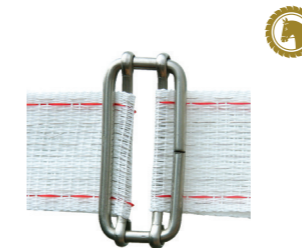
880 0001-521 CT 30

PA50-W INSUL HOOK

- Used when an insulated connection is required
- Strong, UV resistant design
- For use in temporary fence application
- Slim design for ease of use.

880 0000-688 CT 30

HARDWARE



WIDE TAPE JOINER 40 MM

- Use to join up to 40 mm wide tape
- Made from stainless steel.

880 0001-325 PK 5



EARTH SYSTEMS

Your earth system is the most important component of your electric fence. An effective earth system will optimise the performance of your electric fence.

Setting up your Earth System

Installing your Energizer

Before installing make sure you have read all the instructions provided with your energizer.

INDOOR INSTALLATION

Mains, Unigizer™ or battery powered energizer

- Mount out of reach of children and animals
- Mount a mains powered energizer near a power point.

OUTDOOR INSTALLATION

Unigizer or battery powered energizer

- Mount out of reach of children and animals
- If necessary, build a protective box or fence around the energizer and battery

- Where possible, connect the energizer to the middle of the fence.

SOLAR INSTALLATION

Solar powered energizers

- Mount out of reach of children and animals
- If necessary, build a protective fence around the solar installation
- Where possible, position the energizer and solar panel(s) in the middle of the fence
- Adjust the solar panel(s) to face north in the southern hemisphere and south in the northern hemisphere
- Tilt the solar panel(s) to face the midday sun.

Refer to your product user manual for more information about energizer installations or visit www.pel.co.nz/guides-advice.

Earthing your Energizer

UNDERSTANDING EARTHING

What is an earth system?

The earth system consists of a number of earth rods that provide an effective (low resistance) path for the electric current to return to the energizer's earth terminal. Larger energizers with large fence lines require more earth rods.

How does earthing work?

For an electric fence to give an electric shock the current produced by an energizer must complete a full circuit. The current leaves the energizer and moves along the fence wires through the animal, into the soil and back to the energizer via the earth system. If the earth system is ineffective the animal will receive an inadequate shock.

What factors affect your earth system?

Dry, sandy or non-conductive soil (e.g. volcanic soil) provides an ineffective earthing system. If you have this type of soil, it's a good idea to 1) use additional earth rods or 2) choose a better location for the earth system (such as damp soil) or 3) consider an alternative method of earthing such as the Fence Wire Earth Return.

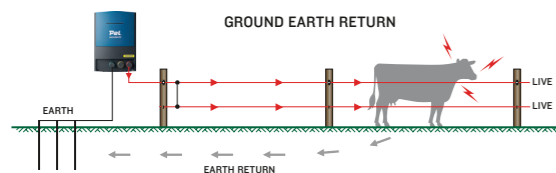
Setting up your Earth System

STEP 1 CHOOSE THE RIGHT SYSTEM FOR YOU

Option 1 – Ground Earth Return

Recommended where soil is conductive. This system is suitable for most moist soils.

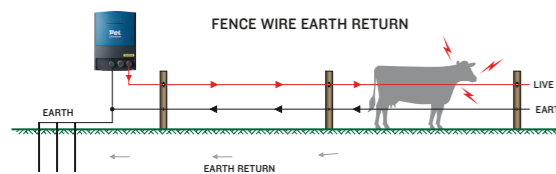
Current flows through the animal and the ground back to the earth rods.



Option 2 – Fence Wire Earth Return

Recommended where soil is not conductive. If the soil is dry, sandy or volcanic it is usually not conductive.

The fence is constructed using both live and earth wires. If the animal touches the live wire, the current flows through the animal and the ground to the earth rods and back to the energizer. If the animal touches the live wire and the earth wire the current flows through the ground and fence earth wire back to the energizer.



STEP 2 SELECT THE SITE FOR YOUR EARTH SYSTEM

A suitable place for an earth system is:

- A minimum of 10 m away from other earth systems, e.g. house mains, underground power or phone lines
- Away from stock or other traffic that could interfere with the installation
- Easily accessible for maintenance
- Where there is damp soil all year round, e.g. shaded or swampy areas.

TIPS

1. In some situations it is not possible to locate the earth system close to the energizer. As an alternative try using the existing fence line to connect to a remote earth system.
2. It may be necessary to water the earth system in dry weather to improve soil conductivity.

STEP 3 INSERT THE EARTH RODS

The number of earth rods required depends on the type of energizer you're using to power the fence and the soil conductivity. It is recommended that you consult with your local retailer/distributor for the correct number of earth rods to suit your specific location.

1. Space the required number of 2 m earth rods at least 3 m apart.
2. Ensure that the earth rods protrude out of the soil by 100 mm so they can be easily connected.
3. Connect the earth rods in series using earth clamps and insulated cable* in one continuous length without joins.

* Note you will need to strip small sections of the insulation away from the cable to connect to the earth clamp/earth rod.

STEP 4 TESTING YOUR EARTH SYSTEM

Test your earth system to ensure it's working properly.

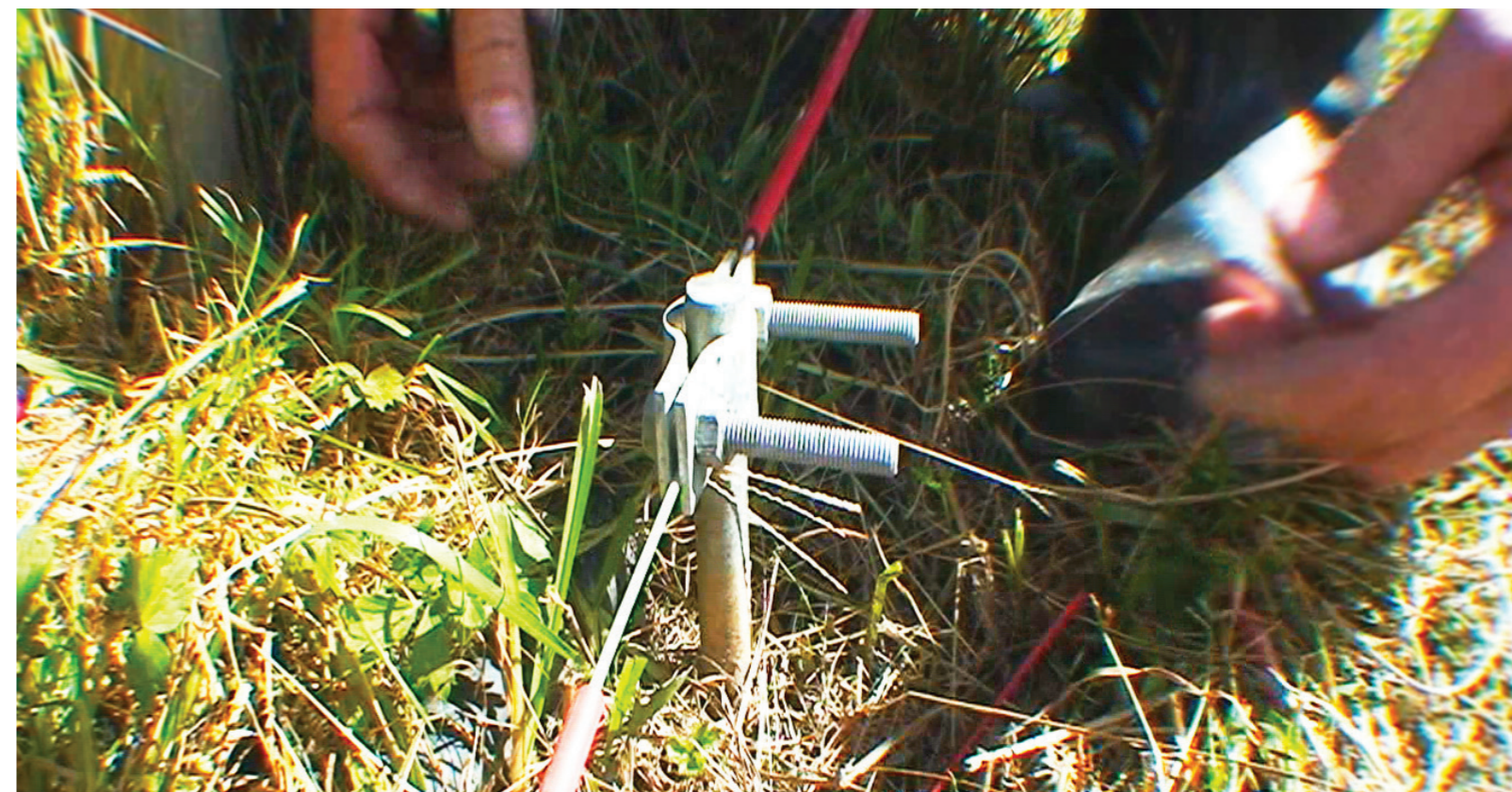
To do this:

1. Turn off the energizer.
2. Short circuit the fence to ground at least 100 m away from the energizer. This can be done by laying steel rods or pipes against the fence. In dry or sandy soils drive the rods into the soil up to 300 mm.
3. Turn on the energizer.
4. Use a digital voltmeter (see pg 26) to measure the fence voltage. It should read less than 2 kV. If not, repeat steps 1-3 using more steel rods or pipes.
5. Attach the voltmeter clip to the last earth rod of the earthing system.
6. Insert the voltmeter probe into the soil at the full length of the leads.
7. The voltmeter reading should be no more than 0.3 kV. If the reading is higher than this, the earth system is inadequate. See the earthing checklist opposite, add more earth rods or find a better location for your earth system.

EARTH SYSTEM CHECKLIST

TICK HERE

- All wires are joined securely
- Connections to earth rods are secure
- Earth rods are at least 3 m apart
- Earth rods are at least 2 m long
- There are a sufficient number of earth rods
- All parts of the earth system are made of the same metal
- The earth rods are driven deeply into the soil (100 mm exposed)
- Earth rods are a minimum of 10 m away from buildings or other electrified earth systems, e.g. house mains, underground power or phone lines.



GATES

Like our customers, Pel gates work day in and day out, rain, hail or shine. Proudly made in New Zealand with high quality welding and pipework, then hot dip galvanised after fabrication - there is no compromise on quality and durability. Pel offers a range of standard and made to order gates to suit the way you manage your farm.

ADJUSTABLE HINGE - THE LATEST INNOVATION FOR FARM GATES

The adjustable hinge incorporates a hard wearing nylon insert that helps prevent electric shocks, plus double bolts that improve gate durability, strength and performance.



Non-conductive nylon insert:

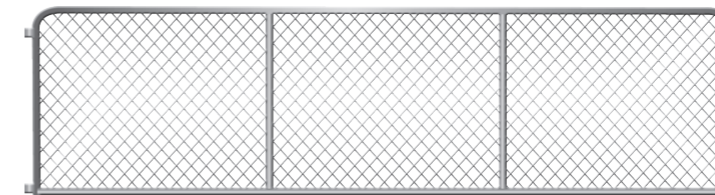
- Reduces the likelihood of current from adjacent electric fence electrifying the gate.
- Gives a perfect fit and superior bearing surface to reduce wear.



Double-bolted hinge:

- Increases clamping and limits unwanted gate movements.
- Prevents gates from coming off the gudgeon.
- Adjustable to suit any gudgeon configuration.
- Allows easy adjustment to raise or lower the gate.

ECONOMY GATE

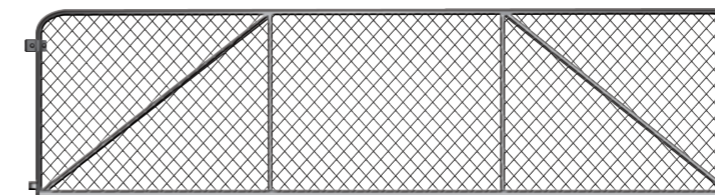


Height	1.00 m	Fixed Lug	20 mm x 2	Vertical	25 NB
Frame	25 NB	Chainlink	75 x 3.15 mm		(2.44 m - 3.96 m)
				3 bars	(4.27 m - 4.87 m)

Available Lengths

1.83 m (6 ft)	880 0010-434
2.13 m (7 ft)	880 0010-435
2.44 m (8 ft)	880 0010-436
2.74 m (9 ft)	880 0010-437
3.05 m (10 ft)	880 0010-438
3.35 m (11 ft)	880 0010-439
3.66 m (12 ft)	880 0010-440
3.96 m (13 ft)	880 0010-441
4.27 m (14 ft)	880 0010-442
4.87 m (16 ft)	880 0010-490

FIELD GATE



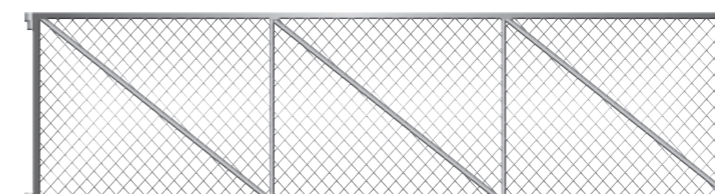
Height	1.00 m	Fixed Lug	20 mm	Vertical	25 NB 2 bars
Frame	25 NB	Adj. Lug	20 mm	Diagonal	20 NB 2 bars
		Chainlink	75 x 3.15 mm		

Available Lengths

2.44 m (8 ft)	880 0010-443*
2.74 m (9 ft)	880 0010-444*
3.05 m (10 ft)	880 0010-445
3.35 m (11 ft)	880 0010-446
3.66 m (12 ft)	880 0010-447
3.96 m (13 ft)	880 0010-448*
4.27 m (14 ft)	880 0010-449
4.57 m (15 ft)	880 0010-450*
4.87 m (16 ft)	880 0010-451*

* made to order

STRESSMASTER GATE



Height	1.00 m	Top Rail	25 NB	Bottom Rail	25 NB
Hinge Upright	32 NB		(3.66 m)		(3.66 m, 4.27 m)
Catch Upright	25 NB		(4.27 m)		(4.87 m)
Stay	20 NB		(4.87 m)	Diagonal	20 NB
Fixed Lug	20 mm x 2		(4.27 m) Heavy	3 bars	(3.66 m, 4.27 m, 4.87 m)
Chainlink	75 x 3.15 mm			Vertical	20 NB
				2 bar	(3.66 m, 4.27 m, 4.87 m)

Available Lengths

3.66 m (12 ft)	880 0010-430
4.27 m (14 ft)	880 0010-431
4.87 m (16 ft)	880 0010-432

Available in Heavy

4.27 m (14 ft)	880 0010-433
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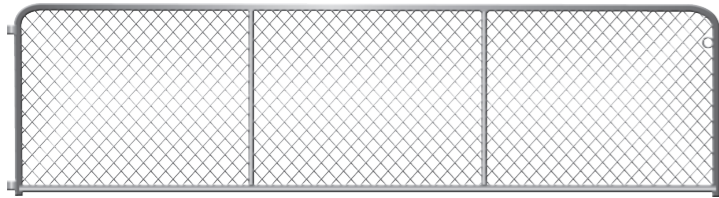
* made to order

FARM & YARD GATES

CONNECTING YOU AND YOUR LAND www.pel.co.nz

MADE IN
NZ

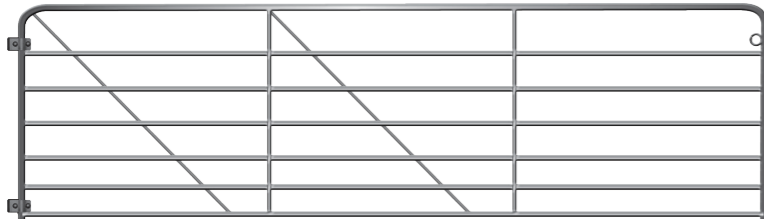
CATTLE GATE



Available Lengths	
3.66 m (12 ft)	880 0010-509
4.27 m (14 ft)	880 0010-510

Height	1.00 m	Fixed Lug	20 mm x 2	Vertical	25 NB
Frame	32 NB	Chainlink	50 x 3.15 mm		2 bars (3.66 m)
					3 bars (4.27 m)

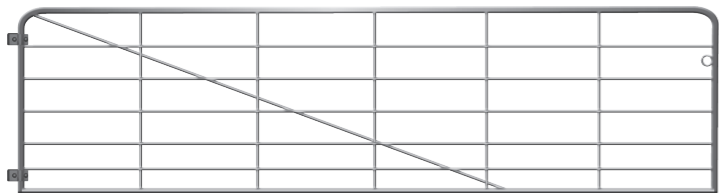
STYLE E BARRED GATE



Available Lengths	
1.83 m (6 ft)	880 0010-421
2.13 m (7 ft)	880 0010-422
2.44 m (8 ft)	880 0010-423
2.74 m (9 ft)	880 0010-424
3.05 m (10 ft)	880 0010-425
3.35 m (11 ft)	880 0010-426
3.66 m (12 ft)	880 0010-427
3.96 m (13 ft)	880 0010-428
4.27 m (14 ft)	880 0010-429
4.57 m (15 ft)	880 0010-492*
4.87 m (16 ft)	880 0010-517
	* made to order

Height	1.05 m	Adj. Lug	20 mm x 2	Vertical	40 x 5 mm
Frame	25 NB	Horizontal	5 bars 20 mm		1 bar (1.83, 2.13 m)
		Diagonal	6.3 mm		2 bars (2.44 m - 3.66 m)
		No bars	(1.83 m - 3.35 m)		3 bars (3.96 m - 4.87 m)
		2 bars	(3.66 m - 4.87 m)		

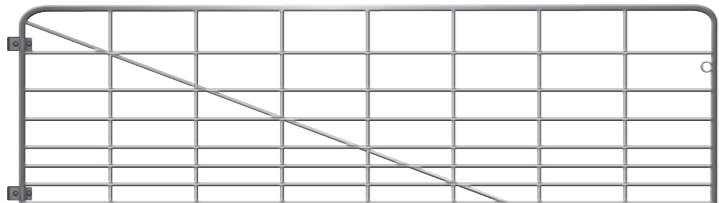
SPECIAL BARRED GATE



Available Lengths	
1.83 m (6 ft)	880 0001-182*
2.13 m (7 ft)	880 0009-084*
2.44 m (8 ft)	880 0001-631
2.74 m (9 ft)	880 0009-013
3.05 m (10 ft)	880 0001-630
3.35 m (11 ft)	880 0010-482
3.66 m (12 ft)	880 0010-462
3.96 m (13 ft)	880 0010-483
4.27 m (14 ft)	880 0001-629
4.57 m (15 ft)	880 0010-484
4.87 m (16 ft)	880 0001-142
	* made to order

Height	1.00 m	Horizontal	5 bars 6.3 mm	Vertical	25 x 3 mm
Frame	25 NB	Diagonal	6.3 mm		3 bars (1.83 m)
Adj. Lug	20 mm x 2	1 bar	(1.83 m - 4.27 m)		4 bars (2.13 m, 2.44 m)
		2 bars	(4.57 m, 4.87 m)		5 bars (2.74 m)
					6 bars (3.05 m, 3.35 m)
					7 bars (3.66 m)
					8 bars (3.96 m, 4.27 m)
					9 bars (4.57 m)
					10 bars (4.87 m)

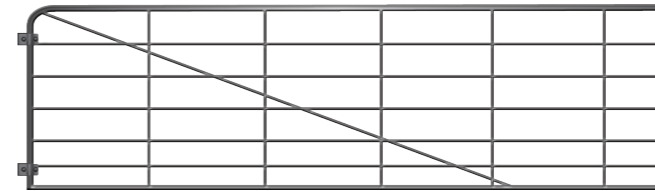
MEDIUM BARRED GATE



Available Lengths	
1.83 m (6 ft)	880 0010-452*
2.13 m (7 ft)	880 0010-497*
2.44 m (8 ft)	880 0010-453
2.74 m (9 ft)	880 0010-454
3.05 m (10 ft)	880 0010-455
3.35 m (11 ft)	880 0010-456
3.66 m (12 ft)	880 0010-457
3.96 m (13 ft)	880 0010-458
4.27 m (14 ft)	880 0010-459
4.57 m (15 ft)	880 0010-460
4.87 m (16 ft)	880 0010-461
	* made to order

Height	1.05 m	Diagonal	6.3 mm	Vertical	25 x 3 mm
Frame	25 NB	1 bar	(1.83 m - 4.27 m)		3 bars (1.83 m)
Adj. Lug	20 mm x 2	2 bars	(4.57 m, 4.87 m)		4 bars (2.13 m, 2.44 m)
Horizontal	6 bars 7.5 mm				5 bars (2.74 m, 3.05 m)
					6 bars (3.35 m)
					7 bars (3.66 m, 3.96 m)
					8 bars (4.27 m)
					9 bars (4.57 m, 4.87 m)

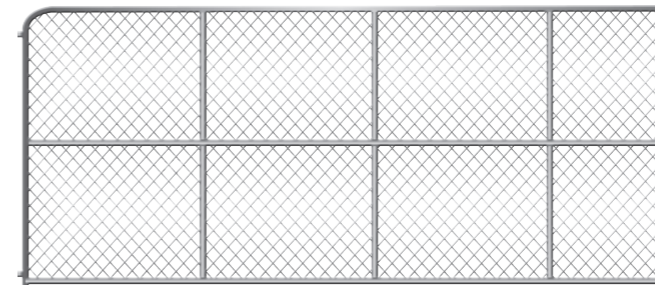
HEAVY BARRED GATE



Available Lengths	
1.83 m (6 ft)	880 0009-005*
2.13 m (7 ft)	880 0009-088*
2.44 m (8 ft)	880 0010-487*
2.74 m (9 ft)	880 0010-507*
3.05 m (10 ft)	880 0010-476
3.35 m (11 ft)	880 0010-477
3.66 m (12 ft)	880 0010-478
3.96 m (13 ft)	880 0010-479
4.27 m (14 ft)	880 0010-480
4.57 m (15 ft)	880 0010-481
4.87 m (16 ft)	880 0010-493
	* made to order

Height	1.05 m	Horizontal	5 bars 9.5 mm	Vertical	25 x 5 mm
Frame	25 NB	Diagonal	6.3 mm		3 bars (1.83 m, 2.13 m)
Adj. Lug	20 mm x 2	1 bar	(1.83 m - 4.27 m)		4 bars (2.44 m, 2.74 m)
		2 bars	(4.57 m, 4.87 m)		5 bars (3.05 m)
					6 bars (3.35 m)
					7 bars (3.66 m, 3.96 m)
					8 bars (4.27 m, 4.57 m)
					9 bars (4.87 m)

DEER GATE



Available Lengths (1.55 m H)		Available Lengths (1.90 m H)	
3.05 m (10 ft)	880 0010-463*	2.44 m (8 ft)	880 0010-467*
3.35 m (11 ft)	880 0010-464*	2.74 m (9 ft)	880 0010-468*
3.66 m (12 ft)	880 0002-502	3.05 m (10 ft)	880 0010-469
4.27 m (14 ft)	880 0010-465	3.35 m (11 ft)	880 0010-470*
4.87 m (16 ft)	880 0010-466*	3.66 m (12 ft)	880 0010-471
	* made to order	3.96 m (13 ft)	880 0010-472*
		4.27 m (14 ft)	880 0010-473
		4.57 m (15 ft)	880 0010-474*
		4.87 m (16 ft)	880 0010-475*
			* made to order

Height	1.55 m / 1.90 m	Vertical (1.55 m)	25 NB	Vertical (1.90 m)	25 NB
Frame	25 NB	2 bars	(3.05 m - 3.95 m)	2 bars	(2.44 m - 3.96 m)
Horizontal	1 bar 25 NB	3 bars	(4.27 m - 4.87 m)	3 bars	(4.27 m - 4.87 m)
Fixed Lug	20 mm x 2				
Chainlink	75 x 3.15 mm				

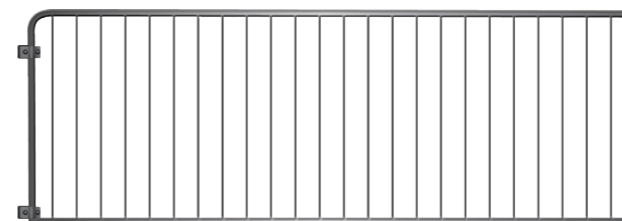
MEDIUM BARRED DEER GATE



Available Lengths (1.50 m H)		Available in Heavy (1.85 m H)	
3.05 m (10 ft)	880 0009-150	3.05 m (10 ft)	880 0009-151
3.66 m (12 ft)	880 0009-152	3.66 m (12 ft)	880 0009-153
4.27 m (14 ft)	880 0009-154	4.27 m (14 ft)	880 0009-155

Height	1.50 m / 1.85 m	Diagonal	6.3 mm	Vertical	7.5 mm
Frame	25 NB	Horizontal	7.5 mm		5 bars (3.05 m)
Fixed Lug	20 mm x 2	8 bars	(1.50 m)		7 bars (3.66 m)
		10 bars	(1.85 m)		8 bars (4.27 m)

VERTICAL BARRED GATE



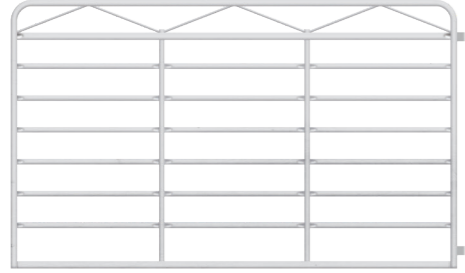
Available Lengths	
1.07 m (3 ft 6 in)	880 0009-060
1.20 m (4 ft)	880 0009-293
1.52 m (5 ft)	880 0009-061
1.83 m (6 ft)	880 0009-062
2.13 m (7 ft)	880 0009-063
2.44 m (8 ft)	880 0009-064
2.74 m (9 ft)	880 0009-074
3.05 m (10 ft)	880 0009-006
3.35 m (11 ft)	880 0009-077
3.66 m (12 ft)	880 0009-065
3.96 m (13 ft)	880 0009-072
4.27 m (14 ft)	880 0009-089

Height	1.00 m	Vertical	7.5 mm	25 bars	(2.74 m)
Frame	25 NB	9 bars	(1.07 m)	28 bars	(3.05 m)
Adj. Lug	20 mm x 2	11 bars	(1.20 m)	31 bars	(3.35 m)
		14 bars	(1.52 m)	34 bars	(3.66 m)
		17 bars	(1.83 m)	37 bars	(3.96 m)
		20 bars	(2.13 m)	40 bars	(4.27 m)
		23 bars	(2.44 m)		

MADE TO ORDER GATES

Options listed below are on a made to order basis. Other gate types/designs can be manufactured to suit your specifications on request.

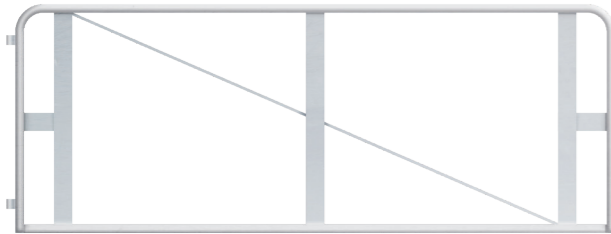
CATTLE YARD GATE - "TANGIHAU"



Suggested Lengths
3.05 m (10 ft)*
* made to order in any length or height required

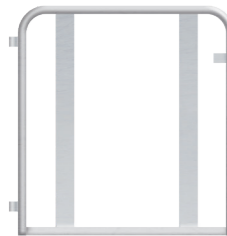
Height 1.50 m
Frame 32 NB Pipe Frame & Bottom & Secondary Top Rail
Internals 25 NB Pipe (32 NB Optional)
Lattice 12 mm RMS
Weld on Lug 20 mm x 2

SHEEP YARD GATES



Suggested Length
2.40 m (8 ft)*
* made to order in any length or height required

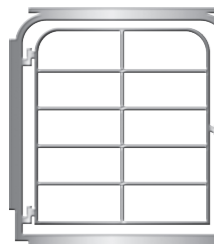
Height 0.95 m
Frames 25 NB
75 x 5 FMS uprights for client to mount 150 mm x 25 mm rails of timber
Weld on Lug 20 mm x 2
Rod Diagonal 6.3 mm



Suggested Length
0.90 m (3 ft)*
* made to order in any length or height required

Height 0.95 m
Frames 25 NB
75 x 5 FMS uprights for client to mount 150 mm x 25 mm rails of timber
Weld on Lug 20 mm x 2

DEER ESCAPE GATE



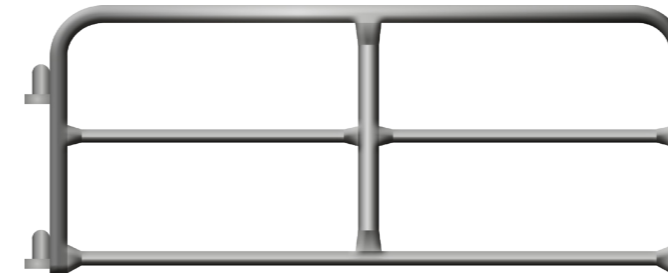
Available Length
0.60 m 880 0009-004*
Outside dimensions of the outer frame are 800 mm wide x 860 mm high
* made to order

Height 700 mm
Frame 20 NB
Horizontal 4 bars 6.3 mm
Vertical 6.3 mm
Weld on Lug / Pins 16 mm x 2
Deadsure Latch 20 mm

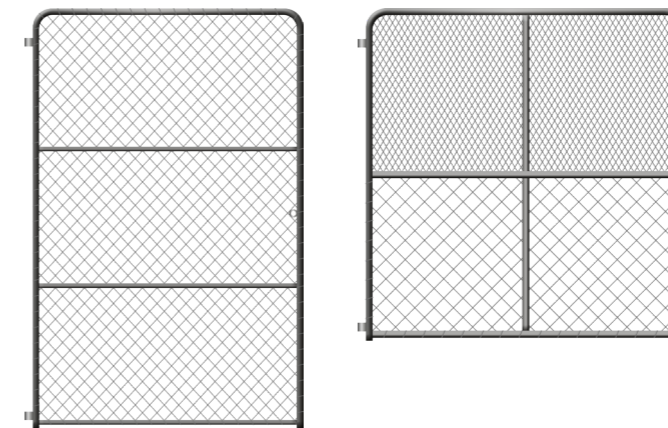
MADE TO ORDER EQUINE GATES

Options listed below are on a made to order basis. Other gate types/designs can be manufactured to suit your specifications on request.

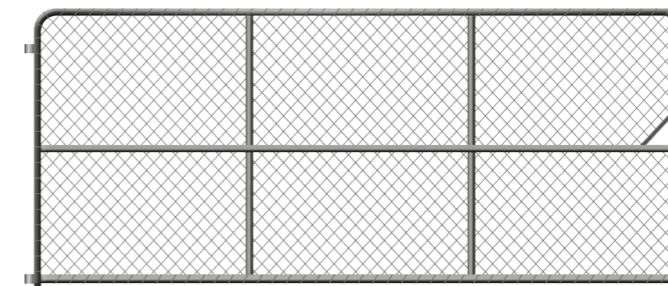
EQUINE YARD GATES



Available Lengths
Manufactured to client's design specifications

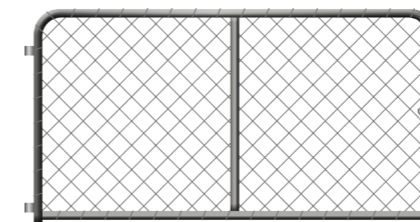


EQUINE PADDOCK GATES



Available Lengths
2.44 m (8 ft) to 4.87 m (16 ft)
Manufactured to client's design specifications

Height 1.55m



Height 1m

-PEL-
EQUINE
RECOMMENDED FOR
EQUINE USE





Fence Tools



In 1895 a young pioneer Ernest Hayes began farming the rugged back country of New Zealand's South Island and through his background in engineering, soon began to develop the tools that would help turn this wilderness back country into productive land.

Initially produced by hand, Hayes' simple tools began to develop a solid reputation and in 1902

he established the company that would proudly bear his name.

Times have changed, but the Hayes product you buy today remains a tribute to Ernest Hayes' imagination, drive, energy and determination to be the best.

Now 100 years on, Hayes products can be found hard at work all over New Zealand and in over 25 countries around the world.

Hayesfencing.com

Wire Strainers

Smooth Grip Chain Strainer

H300 (880 0000-015)
The **original** chain and grab wire strainer. Proven in the field for over 100 years.

- Heavy duty industry leader
- Available with anchor hook and extra long chain **H300AL** (800009)

Made in NZ



Clamp Strainer

H406 (880 0000-063)

- Designed for use with prefabricated fence
- For use with Steel Strainer Clamps

Made in NZ

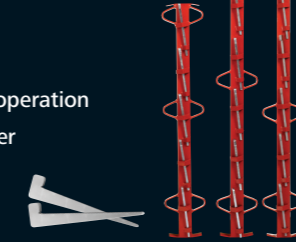


Steel Strainer Clamps

H508S 1.2 m (880 0000-028)
H508S 1.9 m (880 0000-045)
H508S 2.4 m (880 0000-011)

- Hammer-in wedges for quick easy operation
- Strain up using **H406** Clamp Strainer

Made in NZ



"My team's tools get a hard time yet they must continue to perform. After 100's of kilometres of conventional, electric, horticultural and vineyard fencing, Hayes is definitely my preferred brand"

Gordy Davy - Fence Contractor, 10 years (Katikati, New Zealand)

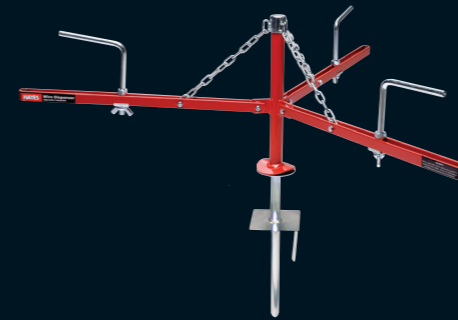
Wire Dispensers

Adjustable-Collapsible Wire Dispenser

H540 Spike Foot (880 0000-019)

- Folding arms for ease of storage
- Adjustable to all wire coil diameters

Made in NZ



Single Tier Wire Dispenser

H319 Spike Foot (880 0002-263)
H319Y Y Foot (880 0002-377)

- Tough steel construction
- Cone braking to reduce wire tangling

Made in NZ



Deluxe Wire Dispenser

H320 (880 0000-112)

- Spring adjusted tension brake to control over-run
- Anchor pin for ground holding
- Coiling handle for recoiling fence wire

Made in NZ



Fence Post Tools

Fencing Spades

Round Head
H349 (880 0001-988) **1.12 m**
H350 (880 0001-628) **1.22 m**

- Hardened steel for long life
- Double curvature head allows greater dirt removal

Made in NZ

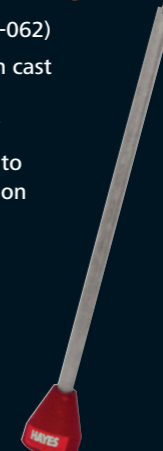


Post Hole Rammer

H386AP (880 0000-062)

- Steel handle with cast iron foot makes compaction easy
- Half round head to suit any application

Made in NZ



Steel Standard Driver

H352 (880 0000-061)

- Dual handle and compaction weighting to assist driving with ease

Made in NZ



Steel Standard Lifter

H325 (880 0000-121)

- Robust design with excellent leverage

Made in NZ

ProCrimp & Crimp Sleeves

ProCrimp

(880 0000-123)

4-in-1 fencing tool - crimping tool, staple puller, cable stripper, and wire cutter.

- Hardened stainless steel components provide strength and corrosion resistance
- Double action crimping jaws maximise crimping force and enhance locking action for gripping staples
- Flat head jaws give improved stability when removing staples
- Extra long handles for improved crimping power and greater leverage for removing staples

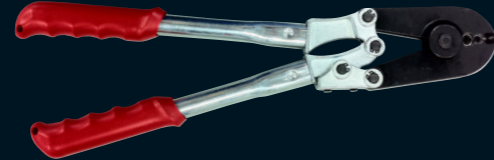
Made in NZ



Crimping & Fencing Tool

(880 0000-088)

- Double action crimping jaws maximise crimping force and enhance locking action for stripping wire
- Extra long handles for improved crimping power
- Soft grip handles for improved crimping power
- Cuts wire up to 4.00 mm (8ga)
- Locking action makes stripping underground cable easy



Crimp Sleeves

The easiest and most effective means of joining wire. Creates a joint that exceeds the breaking strength of wire.

HC2

Suitable for Ø1.6 - 2.5 mm (16 - 12½ gauge) fence wire
Pot of 100 (880 0000-124)
Tub of 500 (880 0000-016)

HC4

Suitable for Ø3.55 - 4.0 mm (9 - 8 gauge) fence wire
Pot of 50 (880 0000-105)

HC3

Suitable for Ø2.50 - 3.15 mm (12½ - 10 gauge) fence wire
Pot of 50 (880 0000-090)
Tub of 500 (880 0000-071)

HCB

Pot of 50 (880 0000-034)
Suitable for barbed wire

HCE

Pot of 50 (880 0000-052)
For connection to electric fences

Fastlok™ Wire Connector

Reusable wire connector
Pot of 10 (880 0002-099)



Accessories

Tightening Handle

H303 (880 0000-133)

- Used in conjunction with permanent wire strainers to tighten fence wire

Made in NZ



Permanent Wire Strainer

H302 (880 0000-132)

The **original** ratchet wire strainer

- Superior load capacity
- Famous for strength

Made in NZ



Spare Parts

Smooth Grip Chain Strainer



HP/100 (880 0004-059)
Anchor Hook



HP/101 (880 0000-128)
Spring, Loop and Cotter



HP/103 (880 0000-038)
300 mm Grab
Tubular Handle



HP/106L (880 0000-127)
Grip with Links and D



HP/106R (880 0000-075)
Grip with Links and Swivel



HP/107 (880 0000-036)
1.2 m Chain and
Grip Grab



HP/108 (880 0000-021)
Grab



HP/111 (880 0000-055)
Grab assembly



HP/115 (880 0000-006)
Bulk Strainer Chain
per metre



HP/300
Rivet Large (880 0004-004)
Rivet Small (804065)
Must be professionally
installed.

Made in NZ

Clamp Strainer



HP/101 (880 0000-128)
Spring, Loop and Cotter



HP/406 (880 0001-833)
450 mm Grab
Tubular Handle



HP/108 (880 0000-021)
Grab



HP/115 (880 0000-006)
Bulk Strainer Chain
per metre



HP/300
Rivet Large (880 0004-004)
Must be professionally
installed.



Handle and Hook

HP/406HH (880 0009-112)

Made in NZ

Adjustable-Collapsible Wire Dispenser



HP/319TF (880 0002-453)
Fingers



(880 0010-419)
Centre Spike



(880 0010-420)
Y Foot



HP/999 (880 0010-417)
Spike Foot

Single Tier Wire Dispenser



HP/319TF (880 0002-453)
Fingers



(880 0010-419)
Centre Spike



(880 0010-420)
Y Foot



HP/999 (880 0010-417)
Spike Foot

Deluxe Wire Dispenser



HP/319TF (880 0002-453)
Fingers



(880 0009-142)
Deluxe Centre Spike



(880 0010-420)
Y Foot



(880 0001-868)
Top Tension Spring



(880 0001-819)
Top Tension Handle



(880 0002-140)
Guide with Handle

Made in NZ

Post Rammer



HP/386 (880 0002-203)
Post Rammer Head

Steel Standard Lifter



HP/325/3 (880 0002-440)
(No. 1 DOG)
Steel Standard Lifter
Grip Plate



HP/325/2 (880 0010-416)
(No. 2 DOG)
Steel Standard Lifter
Grip Complete

Steel Strainer Clamps



HP/5085 (880 0000-077)
Steel Strainer Wedges

Made in NZ

**Works better
together.**

We're committed to delivering a broader, integrated animal management portfolio, so we've united our product brands under one family – Datamars Livestock.

Tru-Test and Z Tags products, complimented by solutions from Speedrite, Stafix and Hayes, allow Datamars Livestock to offer a complete livestock management eco-system for sheep, cattle and dairy farmers. Our goal is to help you breed the best possible genetics, rear animals to target weights and sell at the best possible price.

Our products work with each other, but most importantly - they work with you.

Contact your local Datamars Livestock Territory Manager to find out more.

livestock.datamars.com

Tru-Test
DATAMARS

Tru-Test's range of weighing and electronic identification solutions help farmers to improve productivity and profitability.

**Z
TAGS**
DATAMARS

Providing farmers with their identification needs for over 20 years, Z Tags products include visual tags, radio frequency identification tags and innovative applicators that make tagging livestock easy, safe and compliant.

Speedrite
DATAMARS

From incredibly powerful mains energizers to a complete range of integrated electric fence solar energizers, Speedrite products offer a seriously unbeatable combination of power, usability, portability and value that take performance to a whole new level.

PeL
DATAMARS

Since 1968 PEL has been at the forefront of rural development, bringing clever ideas to farmers and the agricultural industry. Using a common sense approach, PEL has spent decades making electric fencing easier and more efficient.

STAFIX
by Datamars

Stafix energizers are recognised the world over for their extreme reliability, quality and performance. And for good reason. The features and technologies of Stafix products have been developed through decades of experience to deliver rugged and reliable electric fencing solutions.

HAYESTM

Proudly made in New Zealand, Hayes tools are found hard at work, up and down the country. Products bearing the Hayes' name are built to last, with no compromise on quality and durability.

DATAMARS
Livestock

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