patura

2018

Electric Fencing

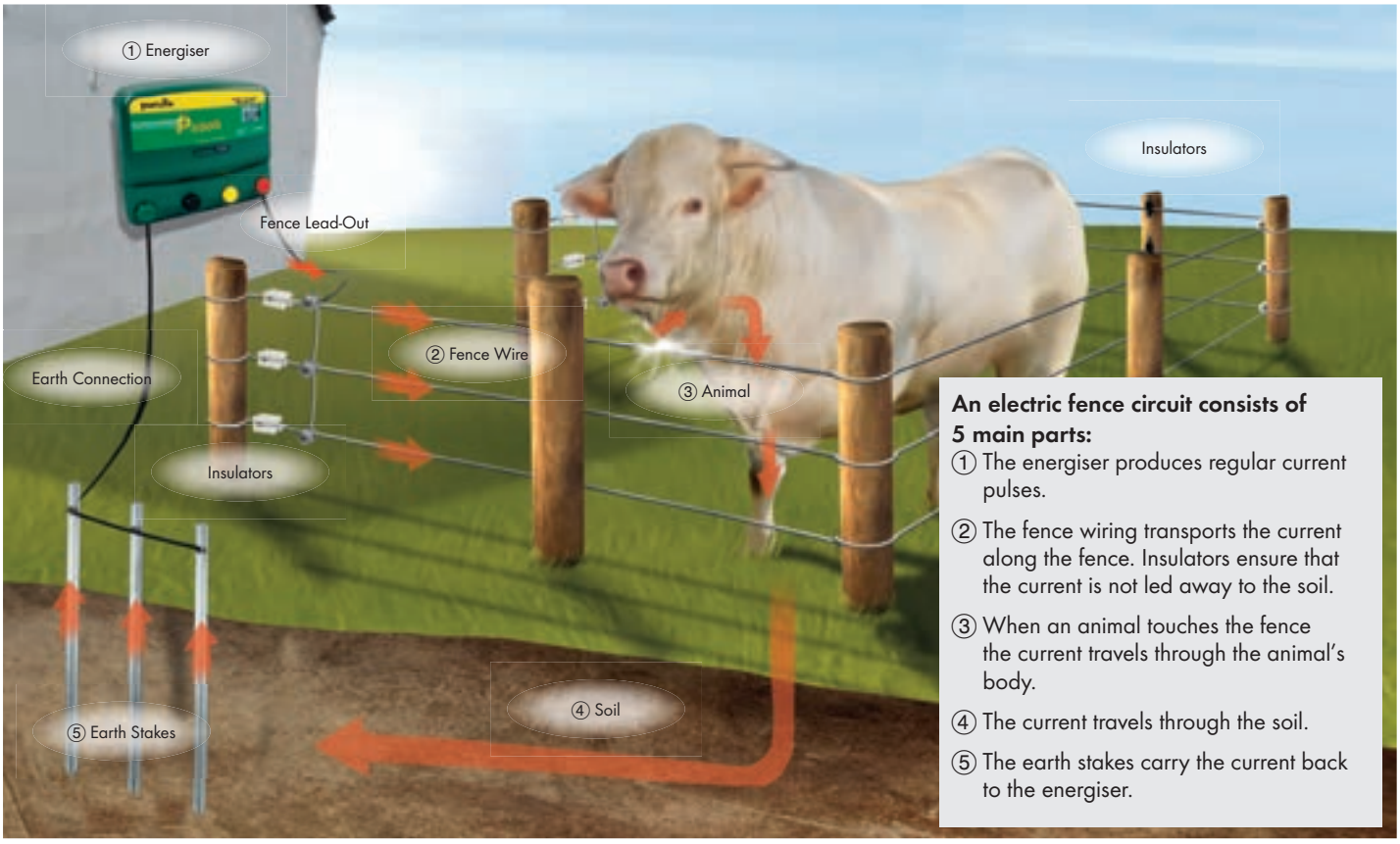
Energisers

Fencing Material

Fence Systems


panda
P 8000
Bilfinger
Denim

Energisers



What does an electric fence system consist of?

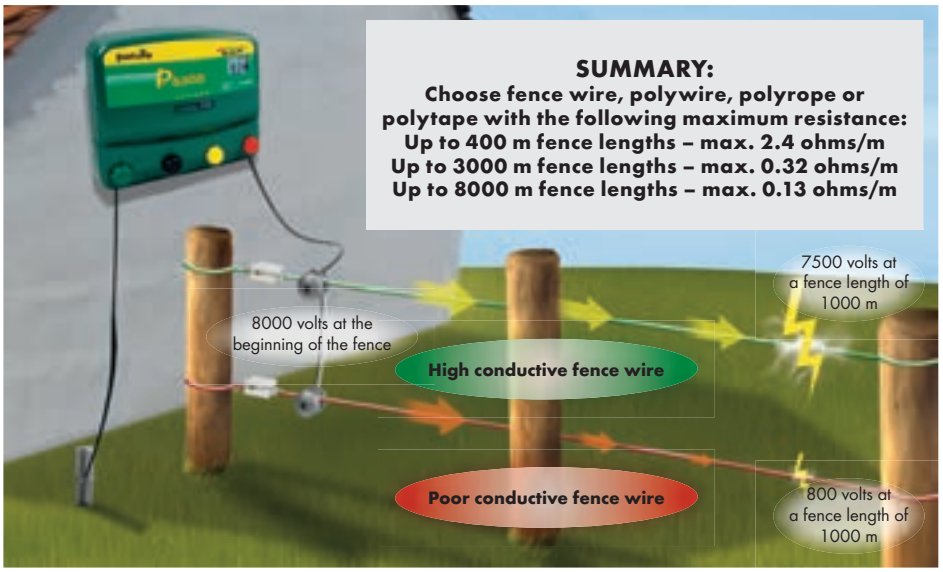
The principle on which the electric fence works – and what differentiates it from other fences – is the animals' reaction to the electric shock they receive when touching the fence. The electric shocks are not dangerous to either humans or animals, but nonetheless make them afraid of coming into frequent contact with the fence. This works in respect of all types of wildlife – both in containing animals as well as in protecting against them.

Three factors decide on the optimal function of your electric fence

Conductivity + **Earthing** + **Energiser**

1. Conductivity of the fence wiring

Long lengths of electric fence can only function using fence wiring with good conductivity. When using 4 wires of 2.5 mm steel, fences up to 120 km can be considered when there is no vegetation. Using only one wire of the same, the maximum length drops to 30 km.
If you go down to one compact-polywire that has 6 x Ø 0.20 mm stainless steel strands, the maximum length of fence goes down to 250 m. If there is vegetation at the fence, then these figures drop considerably. Depending on the desired fence length and the anticipated vegetation level the fence wire must be selected carefully. Please refer to section "Fence Wires, Polywires, Polyrope, Polytape" for more information.



In longer fence lengths, only high conductivity fence wires ensure maximum performance to the end of the fence.

2. Earthing

An electric fence is a circuit in which current flows. The current which travels through the wire, the animal and through the ground cover into the soil, needs to flow back to the energiser with the help of earth stakes.
As the soil is a poor conductor, particularly when it is dry, sandy or stony, it is important to ensure an adequate earth system, so that the energiser can reach its full performance.

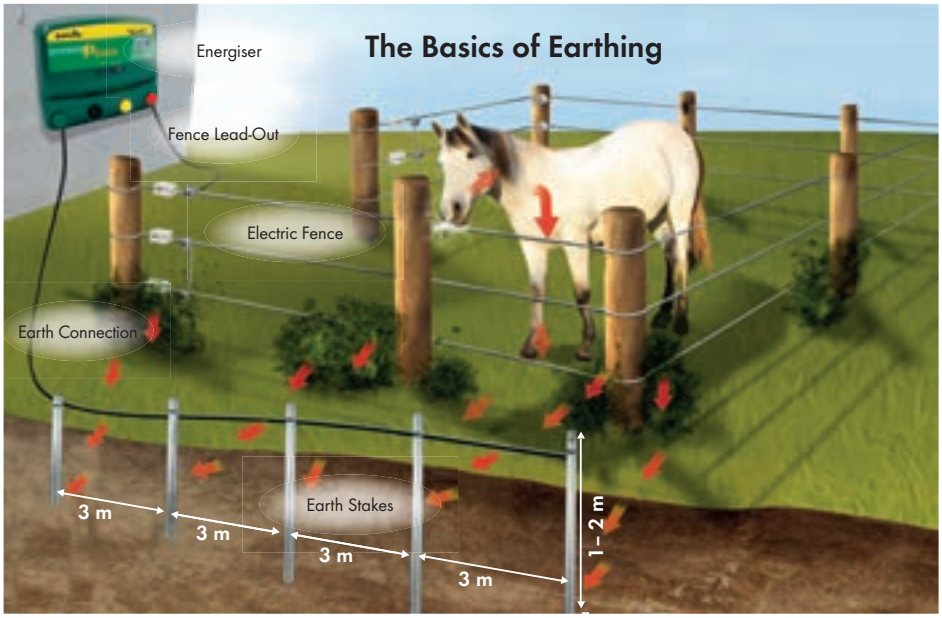
1 For permanently installed mains and battery energiser, 3 earth stakes of 1–2 m in length are generally sufficient.

2 For portable battery energisers there should be at least one earth stake of 1 m in length. Additional stakes are recommended in dry conditions.

3 Ensure that all connections are made using screws.

4 All parts of the earth system should be hot-dip galvanised – i.e. rust proofed!

5 Check the earthing of your energiser regularly.



This is a typical earth system for mains energisers. Check carefully for correct earthing, as over 80 % of installed earth systems are inadequate. Please note the recommendations for the number of earth stakes in the tables for the particular energisers.

SUMMARY:
The standard earth system for energisers from 1 to 5 joules:
Drive 3 galvanised earth stakes of 1 m length into the soil 3 m apart and connect them with screws and high voltage cable.

3. The Energiser

An efficient energiser is the foundation of the basic power supply to your electric fence. The output power of an energiser is specified in joules.

Four factors play a crucial role when deciding which energiser to use:

① Vegetation load on the fence
② Fence length or number of wires
③ Type of animal
④ Power supply 9 V / 12 V or 230 V

You will find detailed advise regarding the selection of an energiser in the tables for the particular energisers.

SUMMARY:
Minimum power requirement depends on fence length and vegetation level:

Up to 500 m no vegetation – min. 0.25 joules
Up to 1000 m normal vegetation – min. 2.0 joules
Up to 1000 m heavy vegetation – min. 6.0 joules

0.33 joules / 9 volts

0.52 joules / Solar 12 volts

1.3 joules / 12 volts

3.8 joules / 12 + 230 volts

6.0 joules / 12 + 230 volts

15.0 joules / 230 volts

The right energiser for my fence

In order to simplify the choice of an energiser in any particular circumstance, we have developed the following selection schematic. It allows you, on the basis of a few basic inputs such as fence length, type of animal and the intensity of the vegetation, quickly and accurately to choose the correct energiser. You will find an easy-to-operate variant of it on the Internet in the form of the PATURA Fence Calculator.

Vegetation

The decisive role in the selection of an energiser is played by the vegetation conditions at the fence. The high output energy of the PATURA energisers is used primarily to destroy heavy vegetation at the fence and, despite this vegetation, to maintain a high voltage level at the fence. These are the various vegetation conditions:

No vegetation – no contact between the vegetation and the fence wire

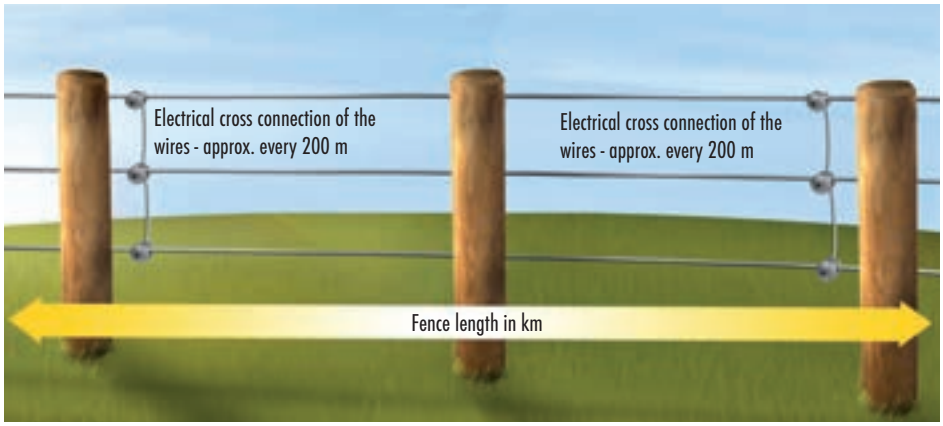
Light vegetation – the vegetation occasionally touches the fence wire

Normal vegetation – the vegetation is continuously touching the wire

Heavy vegetation – the wire runs completely in vegetation

Fence Length

After the vegetation, the length of the fence plays the next most important role in the selection of equipment. By fence length we mean not the total length of the individual wires added together, but simply the length of the actual fence itself. Multi-wire fences carry more advantages in their operation with modern energisers than the ones with single wires. Multi-wire fences carry the current better than single strand ones, providing that the wires are connected to each other at regular intervals.



By fence length we always mean the simple length of the fence itself.

Animal Type

The type of animal plays an important role in the selection. With animals that are difficult to contain, such as wild animals, sheep, goats and fowl, powerful equipment should be used. With more easily contained animals, such as cattle, horses, pigs and domestic animals, less powerful equipment is needed for the equivalent length of fencing.

For recommended maximum fence length please refer to the tables for the particular energisers.

Animals that are easy to contain

Animals that are difficult to contain

The Power Source

Various power sources are available for powering energisers:

- 230 volts AC from the power outlet
- 12 volts DC from a rechargeable battery
- 12 volts DC from solar cells + battery
- 9 volts DC from non-rechargeable batteries

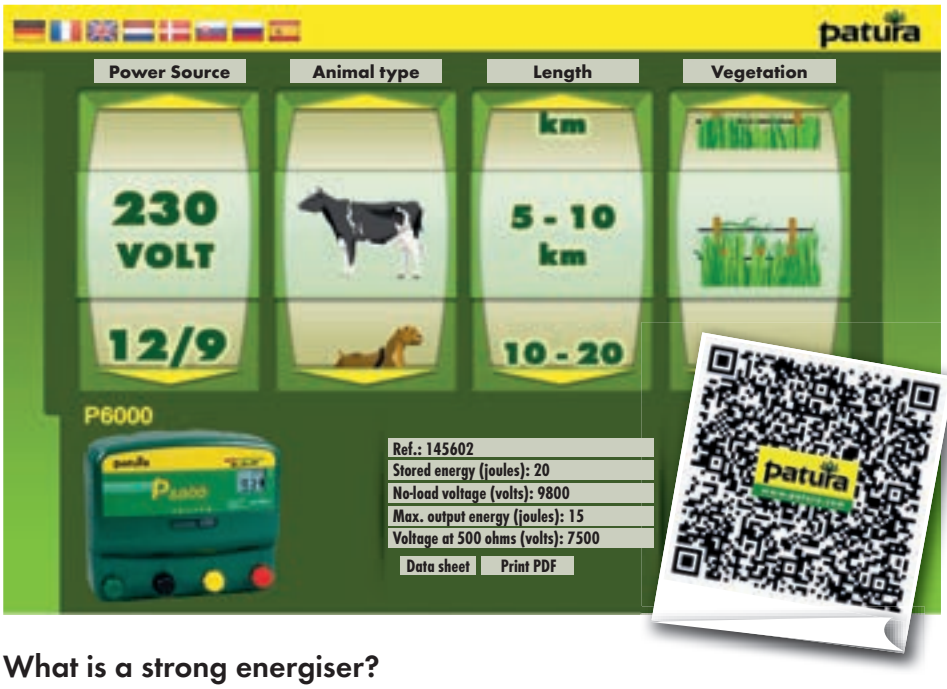
There are many reasons for choosing an energiser with a mains connection, should such a connection be available: the acquisition price of the energiser is relatively low, the energy costs are extremely low, and the ease of operation is very high. If there is no mains supply available, then the next best alternative is an equipment with a 12 volt battery connection. The energy costs are still justifiable, but the maintenance requirement for the recharging of the batteries is nonetheless considerable. In order to minimise this requirement – at least in the spring to autumn period – we recommend the use of solar panels, especially so with the more powerful 12 volt energisers.
The most expensive alternative for powering energisers is the use of 9 volt non-rechargeable dry batteries which also have to be disposed as special waste when exhausted. The advantage with these energisers is that they are easy to use, but their low power is a disadvantage.

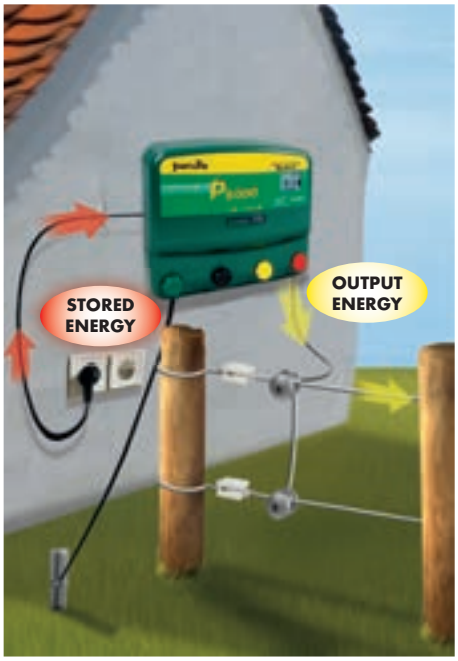
PATURA Fence Calculator

Find the right energiser quickly

By using the new PATURA Fence Calculator, you can very easily determine which of the energisers is specially attuned to your requirements. Just set the easy-to-move push bars (or use the mouse wheel) to the most important parameters, such as power source, type of animal, fence length and level of vegetation and you will be shown the optimum energiser recommendation, as well as detailed technical information on its performance.

Find the right energiser quickly!





It is the output energy at the fence that is decisive – not the stored energy.

What is a strong energiser?

Two important parameters are sufficient to define an energiser's performance:

1. Output energy (in joules):
This is the maximum energy of a pulse supplied by the energiser to the fence. The higher the output energy, the stronger the electrical pulse to the animal, and the lighter the destruction of vegetation.

- Energisers with low output energy (under 0.5 joules) are suitable for types of animal that are easy to contain and short fences that have no, or only little vegetation.
- Energisers with medium output energy (1 to 5 joules) are suitable for animals that are difficult to contain, and above all for fences which have a normal vegetation.
- Energisers with high output energy (over 5 joules) have been developped specially for long fences with heavy vegetation.

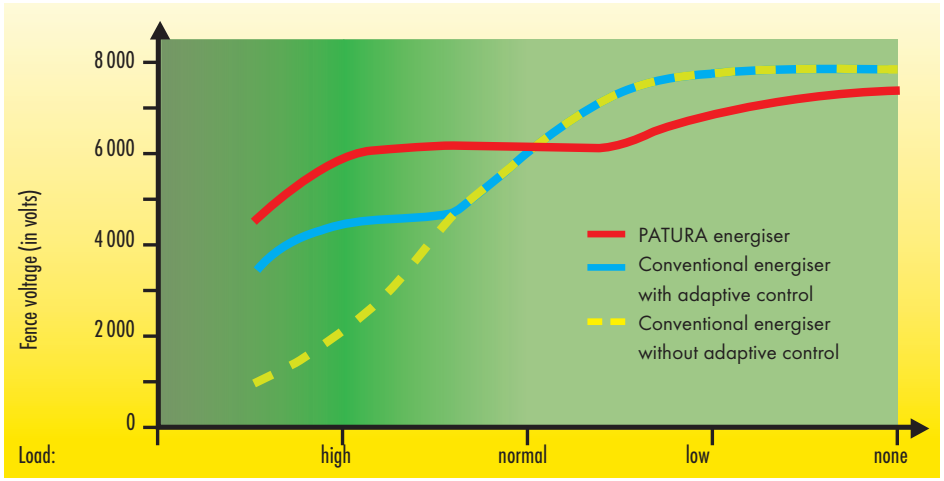
Output energy =
Pulse power at the fence

Stored energy is that energy which the unit receives from the battery or mains, and stores internally.

2. Voltage under load (in volts):
International standards require that for effective animal control a voltage of at least 2000 volts must be available in a fence. In practice, PATURA recommends a fence voltage of 3000 - 4000 volts. It is not the voltage that the energiser offers under no-load conditions, but the voltage under load. PATURA quotes voltage figures under a load of 500 ohms which corresponds to normal growth and/or animal contact.

Voltage at the electric fence

PATURA energisers excel in showing a constant high voltage even when the fence is loaded by (e.g.) vegetation. Using a digital voltmeter, you yourself can check the advantages that PATURA energisers will give. What is decisive is a constant voltage supply over more or less the entire operating range of the equipment, thus maintaining the same high deterrent effect on the animal even in extreme situations. Extremely high voltages at the fence, particularly under no-load conditions, provide no advantages in respect of effective animal control, and have disadvantages with respect to losses – particularly where there is poor insulation.



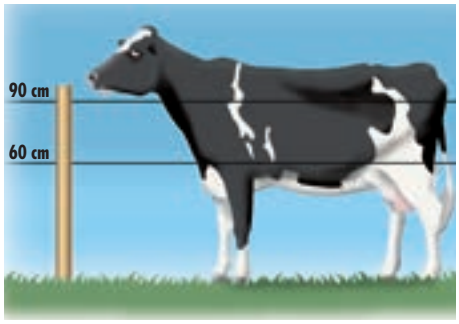
Voltage curve of a PATURA energiser compared with traditional energisers. PATURA energisers have a markedly higher voltage especially where there is vegetation at the fence.

The electric fence

– the best alternative for containing every type of animal

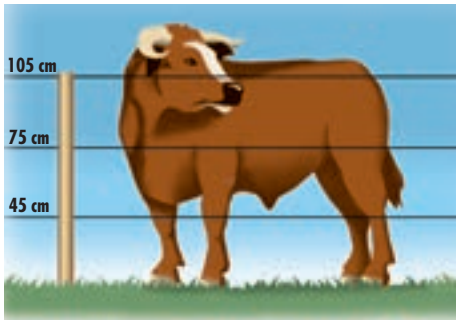
Electric fences are suitable for containing or deterring just about all kinds of animal. The fences differ only in their height, the number of wires and partly in the fence material. Whether the fence is to be an outer fence or a subdivision also plays a role. On these pages you will find the information on outer fence construction with respect to the quantity and height of wires for the most important types of animal. For inner fences the heights can be selected as some 10 to 15 cm less, and one wire fewer can possibly be used. We will be pleased to advise you on any containment fencing questions.

Cows



Electric fences for cows are 0.85 to 1.05 m high with 1 to 2 wires.

Beef + Dairy Cattle



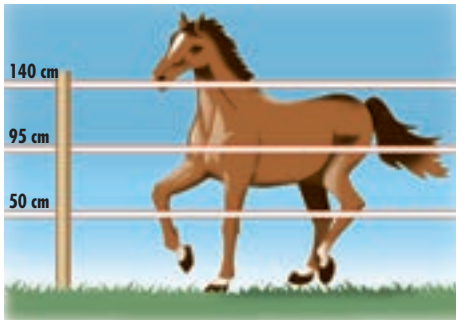
Electric fences for beef and dairy cattle are 0.85 to 1.05 m high with 2 to 3 wires.

Small Horses

Electric fences for small horses and ponies are 1.05 to 1.30 m high with 2 to 3 wires.

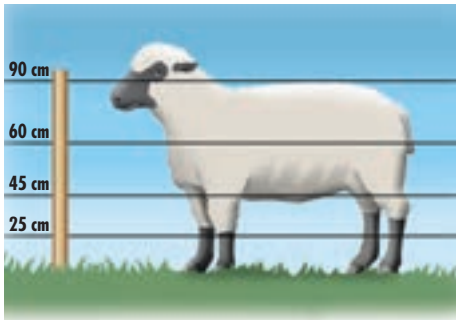
Send in a plan showing your intended fence. We will send you a non-binding offer.

Large Horses



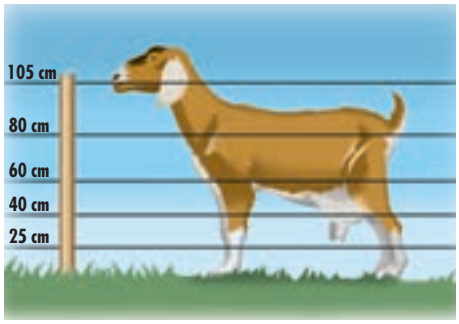
Electric fences for large horses are 1.30 to 1.60 m high with 2 to 3 conducting wires.

Sheep



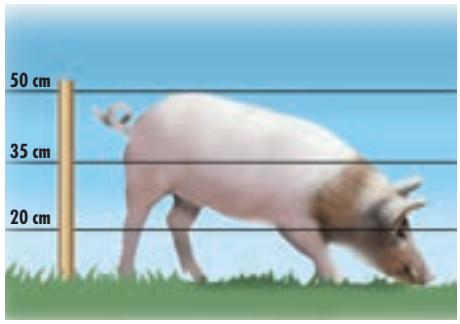
Electric fences for sheep are 0.90 to 1.05 m high with 4 to 5 wires.

Goats



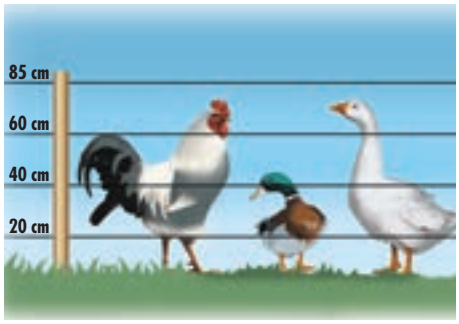
Electric fences for goats are 1.05 to 1.20 m high with 4 to 6 wires.

Pigs



Electric fences for pigs are 0.50 to 0.75 m high with 2 to 3 wires. Outer fences for domestic pigs should have a second fence to protect against wild animals!

Poultry



Electric fences for poultry are according to their flying ability 0.55 to 0.85 m (even to 1.20 m) high with 3 to 4 wires.

Keeping cats/small dogs in or out

Electric fences for cats and small dogs are 0.55 to 0.75 m high with 3 to 4 wires.

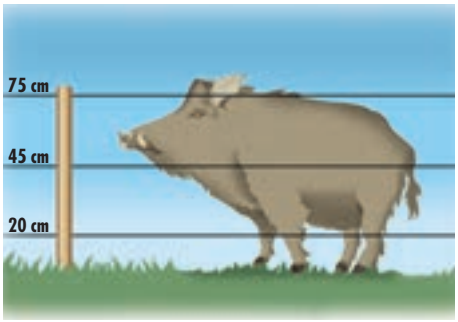
Keeping large dogs in or out

Electric fences for large dogs are 0.85 to 1.05 m high with 2 to 4 wires.

Containing or excluding animals

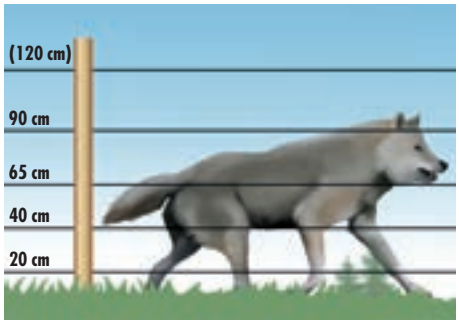
As matter of principle in the application of electric fences, we need to decide whether the animals that need to be controlled are to be contained by the fence or excluded by it. In principle, containing animals is easier than excluding them. Animals that are contained, quickly get used to the fence and can be relied upon to respect it. In excluding animals, we have to consider that animals approaching the fence have no previous experience of it. In this case we need to ensure that initially the animal receives a strong and memorable electric shock, and adjusts itself by giving the electric fence the necessary respect. Thus for exclusion fences, only especially powerful energisers should be used.

Excluding wild boar



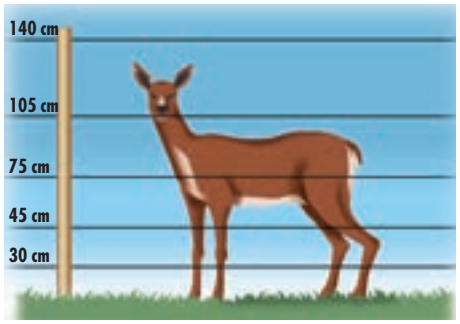
Electric fences for protecting against wild boars are 0.55 to 0.75 m high with 2 to 3 wires.

Excluding wolves



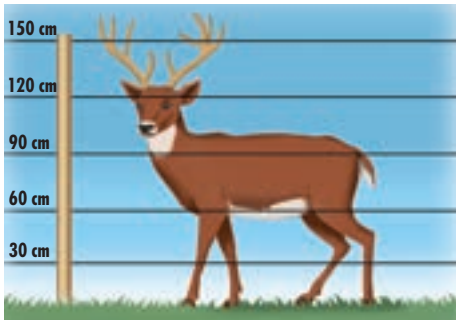
Electric fences for protecting against wolves are up to 1.20 m high with 4 to 5 wires.

Excluding roe-deer



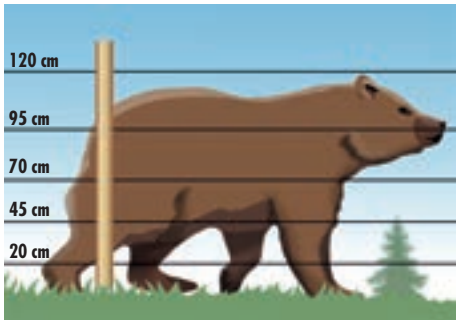
Electric fences for protecting against roe-deer are up to 1.40 m high with 5 to 6 wires.

Excluding red deer



Electric fences for protecting against red deer are up to 1.50 m high with 5 wires.

Excluding brown bears

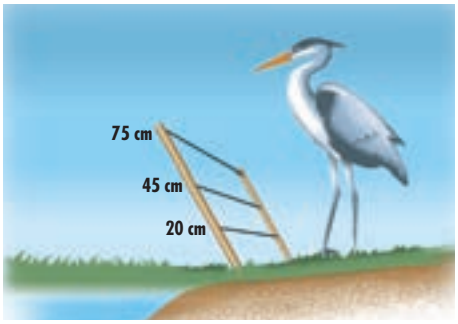


Electric fences for protecting against brown bears are approx. 1.20 m high with 5 wires.

Excluding otters

Electric fences for protecting against otters are 0.4 m high with 4 wires.

Excluding herons

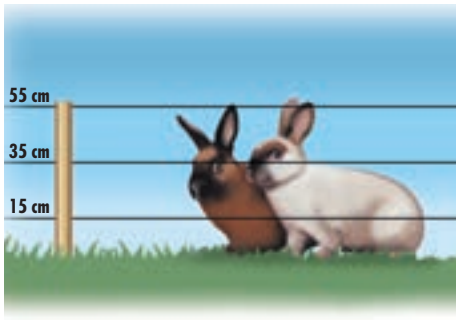


Electric fences for protecting against herons are approx. 0.75 m high with 2 to 3 wires. On a shallow shoreline the fence should be canted towards the water surface.

Excluding martens and raccoons

Electric fences for protecting against martens and raccoons consist of at least 2 wires that are placed close to each other and are connected alternately to the plus- and minus-pole of the device.

Excluding rabbits



Electric fences for protecting against rabbits are approx. 0.55 m high with 3 wires. With rabbits, in order to prevent them digging under the fence, it may be necessary to lay an earthed wire directly on the ground. The fence should be slightly canted towards the animals.

Excluding pigeons

Electric fences for protecting against pigeons on building frontages consist of 1 to 3 wires which are laid on a conducting, earthed surface.

Most modern technology with the optimum price to performance ratio

The compact, easy-to-handle 9 V energisers are used mainly for temporary fence installations, strip grazing where there is a frequent change of area, and for smaller numbers of 'hobby' animals.
A cost and environmental advantage: All PATURA 9 V battery energisers can be connected to a rechargeable 12 V battery.

Including post = earth stake (P 40 / P 60)

PATURA P60 – Convincing in all details

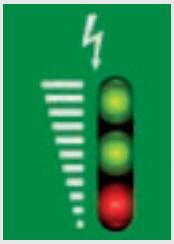
- Easy operation
- Convenient rotary switch
- 2 power levels
- Slow mode
- Night save mode
- 3-step fence and battery monitors

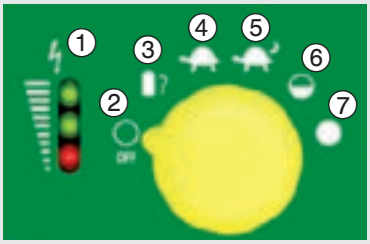
Switching options on the PATURA P 60

Half / Full power:
- To get the animals used to the system, always switch to "full power." When there is little vegetation and sufficient fence voltage, "half power" can be used.

Slow mode:
- To get the animals used to the system, always leave it on "full power." For cattle and horses it can later be switched to "slow mode."

Night save mode:
- "Slow mode" for cattle at night.





① Fence/battery voltage indicator
② OFF
③ Battery test
④ Slow mode
⑤ Night save mode
⑥ Half power
⑦ Full power

Fence voltage indication:
On switch position ④ to ⑦ the indicator lights flash with each pulse
Top green light: Fence voltage above 5000 volts (optimum)
Middle green light: Fence voltage 2500 - 4900 volts (satisfactory)
Bottom red light: Fence voltage below 2500 volts (insufficient)

Battery voltage indication:
On switch position ③ the indicator lights are permanently lit
Top green light: Battery voltage above 7.1 volts
Middle green light: Battery voltage between 5.5 and 7.0 volts
Bottom red light: Battery voltage below 5.5 volts

9 Volt Battery Energisers

	Ref.	Stored energy (joules)	Max. output energy (joules)	No-load voltage (volts)	Voltage at 500 ohms (volts)	Max. power consumption at 9 V (mA)	Supply voltage (volts)	Max. fence length in km (multiple wires) No vegetation	Little vegetation	No vegetation	Little vegetation	Single indicator	3-step fence and battery monitor	Connection to 9 and 12 V (* with separate 12 V cable)	Switch for 2 speeds	Switch for 2 power levels	Night save mode	Deep discharge protection	Minimum length of earth stake (metres)	
P 20	141220	0.22	0.17	8400	2600	24	9 - 12	1.4	0.5	0.7	0.25	•	-	• *	-	-	-	•	0.25	Only perfect earthing allows maximum power on the fence
P 40	141420	0.29	0.23	8700	2800	15 - 29	9 - 12	1.9	0.75	0.9	0.35	-	•	• *	•	•	•	•	0.25	
P 60	141620	0.43	0.33	9600	2900	24 - 45	9 - 12	3.0	1.5	1.5	0.75	-	•	• *	•	•	•	•	0.25	

Further information can be found in section "Energiser Selection" (pages A4/A5)

Particularly in dry subsoil conditions, we recommend the use of a supplementary earth stake (Ref.161700) in addition to that provided with the energiser.

3 year WARRANTY

P 20

Great value amongst PATURA energisers for 9 V dry-cell batteries; ideal for small cattle and horse pastures; user-friendly switch; single indicator light, incl. fence and earth cable
Stored energy: 0.22 joules

141220

P 40

The all-round PATURA energiser for 9 V dry-cell batteries; ideal for cattle and horse pastures with no or little vegetation; battery test, slow pulse sequence, night save mode; half / full power; incl. fence and earth cable
Stored energy: 0.29 joules

141420

P 60

Our most powerful energiser using 9 V dry-cell batteries; high performance for effective animal control even under load conditions at the fence; battery test, slow pulse sequence, night save mode; half / full power; incl. fence and earth cable
Stored energy: 0.43 joules

141620

For optimal function we recommend the use of alkaline batteries for all 9 V energisers

All 9 V energisers are also suitable for 12 V operation

12 V Lead Set

For connecting all PATURA 9 V dry-cell battery energiser to 12 V battery or mains adaptor (to connect to mains adaptor remove spring clips).

159101

Our robust 9 V Energisers for greatest value for money

The compact and low-weight 9 V energisers are used mainly for temporary fence installations and strip grazing where there is a frequent change of area.
Furthermore the easy-to-handle and reliable functions are ideal for smaller numbers of 'hobby' animals.
A cost and environmental advantage: All PATURA 9 V energisers can be connected to a rechargeable 12 V battery.

For optimal function we recommend the use of alkaline batteries for all 9 V energisers

❶ Combined indicator light for fence voltage and battery condition

- Indicator light illuminates green for two seconds when energiser is first switched on: Battery voltage is OK
- Indicator light flashes green once every 1.5 seconds: Energiser is operating and the energiser output voltage is OK
- Indicator light illuminates red for two seconds when energiser is switched on: Battery voltage is low
- Indicator light flashes red once every 1.5 seconds: Energiser is operating but the energiser output voltage is low
- Indicator light flashes red rapidly for four seconds: Energiser fault. There will be no output voltage delivered to the fence.

❷❸ Easy-to-handle and robust

These energisers are ideal for daily rough practical conditions. The advantages with these energisers are many details such as waterproofness, a magnetic rotary switch and stabil lead connectors.

3 – 9 Volt Battery Energisers

	Ref.	Stored energy (joules)	Max. output energy (joules)	No-load voltage (volts)	Voltage at 500 ohms (volts)	Max. power consumption at 9 V (mA)	Supply voltage (volts)	Max. fence length in km (multiple wires) No vegetation	Little vegetation	No vegetation	Little vegetation	Single indicator	3-step fence and battery monitor	Connection to 9 and 12 V (*with separate 12 V cable)	Switch for 2 speeds	Switch for 2 power levels	Night save mode	Deep discharge protection	Minimum length of earth stake (metres)	
P 10	140700	0.05	0.04	5800	1000	14	3	0.8	0.2	0.4	0.1	•	-	-	-	-	-	-	0.25	Only perfect earthing allows maximum power on the fence
P 15	141100	0.20	0.15	8200	2500	24	9 – 12	1.3	0.4	0.65	0.2	•	-	•*	-	-	-	•	0.25	
P 30	140800/140900	0.16	0.12	7700	1900	15 - 27	6 – 12	1.2	0.4	0.6	0.2	•	-	•	•	-	-	•	0.25	
P 50	141500	0.39	0.30	9400	2800	44	9 – 12	2.8	1.3	1.4	0.65	•	-	•*	-	-	-	•	0.25	

Further information can be found in section "Energiser Selection" (pages A4/A5)

Particularly in dry subsoil conditions, we recommend the use of a supplementary earth stake (Ref.161700) in addition to that provided with the energiser.

P 15

Greatest value for money amongst PATURA 9 V energisers; ideal for small cattle and horse pastures; indicator for fence voltage and battery condition; waterproof, magnetic rotary switch; incl. fence and earth cable
Stored energy: 0.20 joules

141100

P 50

The value for money and powerful 9 V energiser; ideal for cattle and horse fences even under load conditions at the fence; indicator for fence voltage and battery condition; waterproof, magnetic rotary switch; incl. fence and earth cable
Stored energy: 0.39 joules

141500

3 year WARRANTY

All 9 V energisers are also suitable for 12 V operation

12 V Lead Set

For connecting all PATURA 9 V dry-cell battery energiser to 12 V battery or mains adaptor (to connect to mains adaptor remove spring clips).

159101

P 10

Energiser using 2 x 1.5 V internal batteries size D; clips directly onto the fence wire; the ideal energiser for small fences.
Stored energy: 0.05 joules

140700

P 30

Energiser using 4 x 1.5 V internal batteries, size D or 12 volt battery; 12 V lead set included; the ideal energiser for small horse paddocks, for trekking and for domestic animals.
Stored energy: 0.16 joules

140800

P 30 with Mounting Post

As P 30, but with addition of practical mounting post (which under good earth conditions doubles as an earth stake).
Stored energy: 0.16 joules

140900

Trekking Kit

The paddock that can travel everywhere with you; the set contains: P30 energiser, 4 collapsible aluminium posts, 5 metal tent pegs, 5 bungee cords, 4 insulators, 1 gate handle, 40 m polytape, 1 waterproof carry case;
Pack size: approx. 45 cm x 17 cm x 10 cm
Weight: 2.75 kg (incl. batteries)

154000

Extremely light, only 2.75 kg (incl. 4 batteries)

The MaxiBox – powerful and easy to handle

High flexibility and more portability in the handling of powerful battery energisers were the basis for the development of the MaxiBox.
The 12 volt battery is incorporated in the housing. The transportation of the energiser and the battery is simplified. The battery is protected from the weather. The person who is transporting the energiser is protected from the battery.
The MaxiBox: As portable as a 9 volt battery energiser + as powerful as a 12 volt car battery energiser.

Switch setting

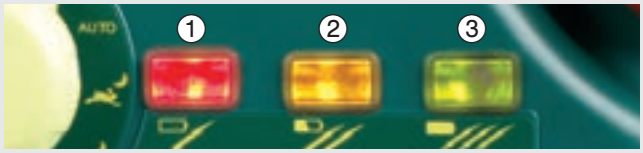
Power output switch (left) Pulse speed switch (right)

① Full power
② Full power with battery test
③ Half power
④ OFF

❶ Fast
❷ AUTO: Speed relative to battery charge level.
Fast: fully-charged battery
Slow: discharged battery
❸ Fast at night, slow during the day
❹ Slow at night, fast during the day

Fence indicator lights

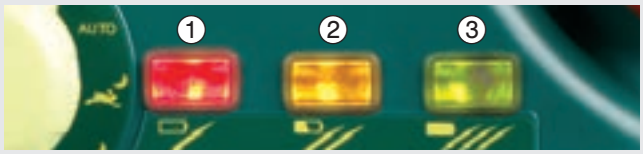
Light up in the rhythm of the fence pulses



① Red flashing light: The fence voltage is below 2000 volts. The fence is no longer controlling the animals effectively. Seek fault immediately.
② Yellow flashing light: The fence voltage is between 2000 and 4000 volts. The fence is still controlling the animals. Look for faults at the next available opportunity.
③ Green flashing light: The fence voltage is over 4000 volts. Optimum output voltage for maximum ensured animal control.

Battery indicator lights

Constant light when switch setting is on 'battery test'



① Red constant light: The 12 V battery needs to be charged urgently.
② Yellow constant light: The 12 V battery is only about half charged. Re-charge in the next few days.
③ Green constant light: The battery is optimally charged.

MaxiBox P 350

Max. fence length in km (multiple wires)

	Ref.	Stored energy (joules)	Max. output energy (joules)	No-load voltage (volts)	Voltage at 500 ohms (volts)	Voltage at 100 ohms (volts)	Max. power consumption at 12 V (mA)	Supply voltage (volts)	No vegetation	Normal vegetation	Heavy vegetation	No vegetation	Normal vegetation	Heavy vegetation	Fence indicator lights	Battery indicator lights	Day/night switch	Deep discharge protection	2 power levels	Recommended solar panel power output	Recommended battery (min Ah)	No. of 1 m earth stakes (min)	
P 250	144000	1.7	1.3	10500	5300	1800	45-135	12	12	3.5	1.2	6	1.7	0.6	•	•	•	•	•	15	60	1	Only perfect earthing allows maximum power at the fence
P 350	144100	3.3	2.5	10700	5900	2100	85-250	12	18	6	2	9	3	1	•	•	•	•	•	25	60	2	

Further information can be found in section "Energiser Selection" (pages A4/A5)

3 year WARRANTY

Day/night switching

The energiser ascertains the light level by means of a sensor, and switches to a slower pulse setting as required. Depending on the application, the re-charging interval of the battery is doubled.
The following settings are possible:

- Always fast
- Fast during the day – slow at night
- Fast at night – slow during the day
- Auto: The speed is dictated by the state of charge of the battery, i.e., it slows as the battery becomes discharged.

How long does a battery in a 12 V energiser last?

- Note the battery capacity (given in Ah) on the battery identification plate: e.g. 80 Ah
- Ascertain the usable capacity of your battery; this is 65 % in a new battery (this reduces with increasing age) e.g. 80 Ah x 65 % = 52 Ah
- Note the current drawn from the following table, or from the identification plate of your energiser: e.g. P 250 : 0.125 A
- Calculate the operating life in hours (hrs) before recharging: capacity/current consumption. e.g. 52 / 0.125 = 416 hrs
  Thus the operating life is 416 hrs or 17 days (416 hrs at 24 hrs per day)

All MaxiBoxes have deep discharge protection and day/night switching

You will find suitable solar panels for all PATURA MaxiBox units in section "Solar Installations".

MaxiBox P 250

A powerful energiser in a compact housing for taking a 12 volt battery; the 12 volt energiser for all applications, including those with vegetation at the fence; incl. fence and earth cable; deep discharge protection
Stored energy: 1.7 joules

144000

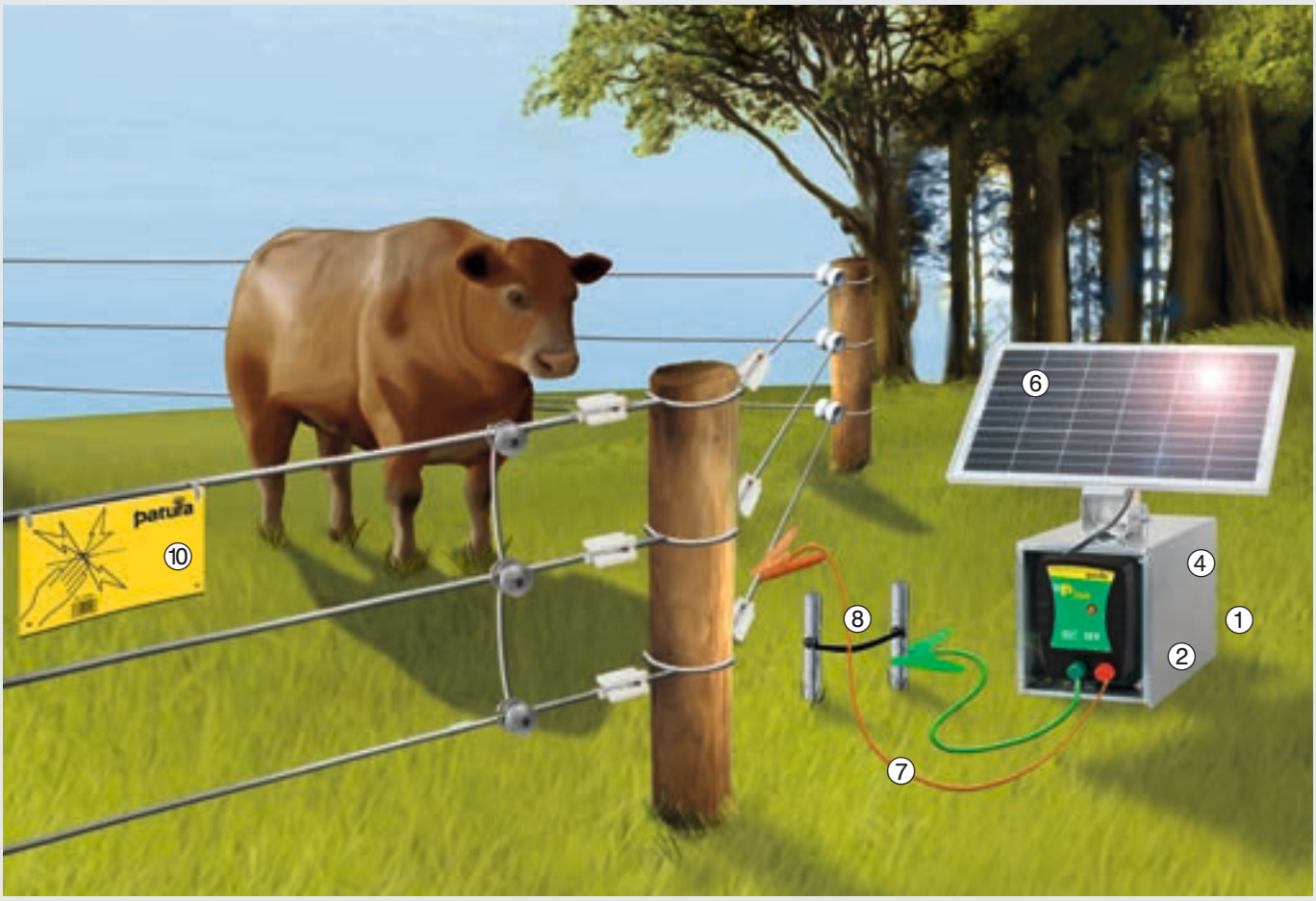
MaxiBox P 350

An extremely powerful energiser in a compact housing for taking a 12 volt battery; the most powerful MaxiBox, is suitable for all applications, including those with vegetation at the fence and with difficult animals; incl. fence and earth cable; deep discharge protection
Stored energy: 3.3 joules

144100

The perfect installation of your PATURA mains energizer

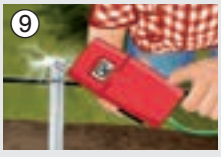
We use battery energisers for pastures with longer distances (> 500 m) to a 230 V main supply.
Generally, a battery energiser is installed in close proximity to the fence. As the batteries have to be recharged regularly, it is important to have an easy access. However, an area that is difficult to see is favorable (theft protection). It is neccessary to make sure that everything is earthed properly after each relocation.



If you consider the following points then you will have a reliable battery energiser over a long period:

① A suitable location to install your battery energiser is in close proximity to the fence.
② We recommend a carry box to protect battery and energiser from wind and weather.
③ For reliable anti-theft protection of energiser and battery, we suggest to use our anti-theft-box (P1500 - P4600).
④ In order to have an operating time of 8 - 14 days please use a battery with a sufficient capacity. We recommend to use a leakproof and maintenance free glass mat battery.
⑤ For recharching we recommend a high-quality automatic battery charger. The use of an additional, removable battery is reasonable.
⑥ By using correct dimensioned solar installations, the battery runs, maintenance free, from spring to autumn without external recharging.
⑦ With all battery energisers we offer a fence connecting cable for reliable connection to the fence.
⑧ Install your earthing system in close proximity to the energiser, at a location where the ground stays wet throughout the year.
⑨ Check your earthing system at the time of installation.
⑩ Mark your fence by placing suitable warning signs.

Detailed references to different sections can be found in the following chapter equipment accessories.



How long does a battery in a 12 V energiser last?

- Note the battery capacity (given in Ah) on the battery identification plate: e.g. 80 Ah
- Ascertain the usable capacity of your battery; this is 65 % in a new battery (this reduces with increasing age) e.g. 80 Ah x 65 % = 52 Ah
- Note the current drawn from the following table, or from the identification plate of your energiser: e.g. P200 : 0.110 A
- Calculate the operating life in hours (hrs) before recharging:
  capacity/current consumption. e.g. 52 / 0.110 = 473 hrs. Thus, the operating life is 473 hrs or 20 days (473 hrs at 24 hrs per day)

P 100

Greatest value for money amongst PATURA 12 V energisers; for short fences for cattle, horses and domestic animals; deep discharge protection for longest possible operating life of the battery; incl. fence/earth lead set
Stored energy 0.6 joules

146100

P100 with accessible carry box
146110

P100 with carry box Compact (max. 84 Ah battery)
146130

P 200

The 12 V energiser for short fences with light vegetation for cattle and horses; deep discharge protection for longest possible operating life of the battery; incl. fence/earth lead set
Stored energy 1.5 joules

146200

P200 with accessible carry box
146210

P200 with carry box Compact (max. 84 Ah battery)
146230

Boxes see pages A28/A29

3 year WARRANTY

P 300

The 12 V energiser for electric fences of medium length with vegetation for cattle and horses; deep discharge protection for longest possible operating life of the battery; incl. fence/earth lead set
Stored energy 2.4 joules
146300

P300 with accessible carry box
146310

P300 with carry box Compact (max. 84 Ah battery)
146330

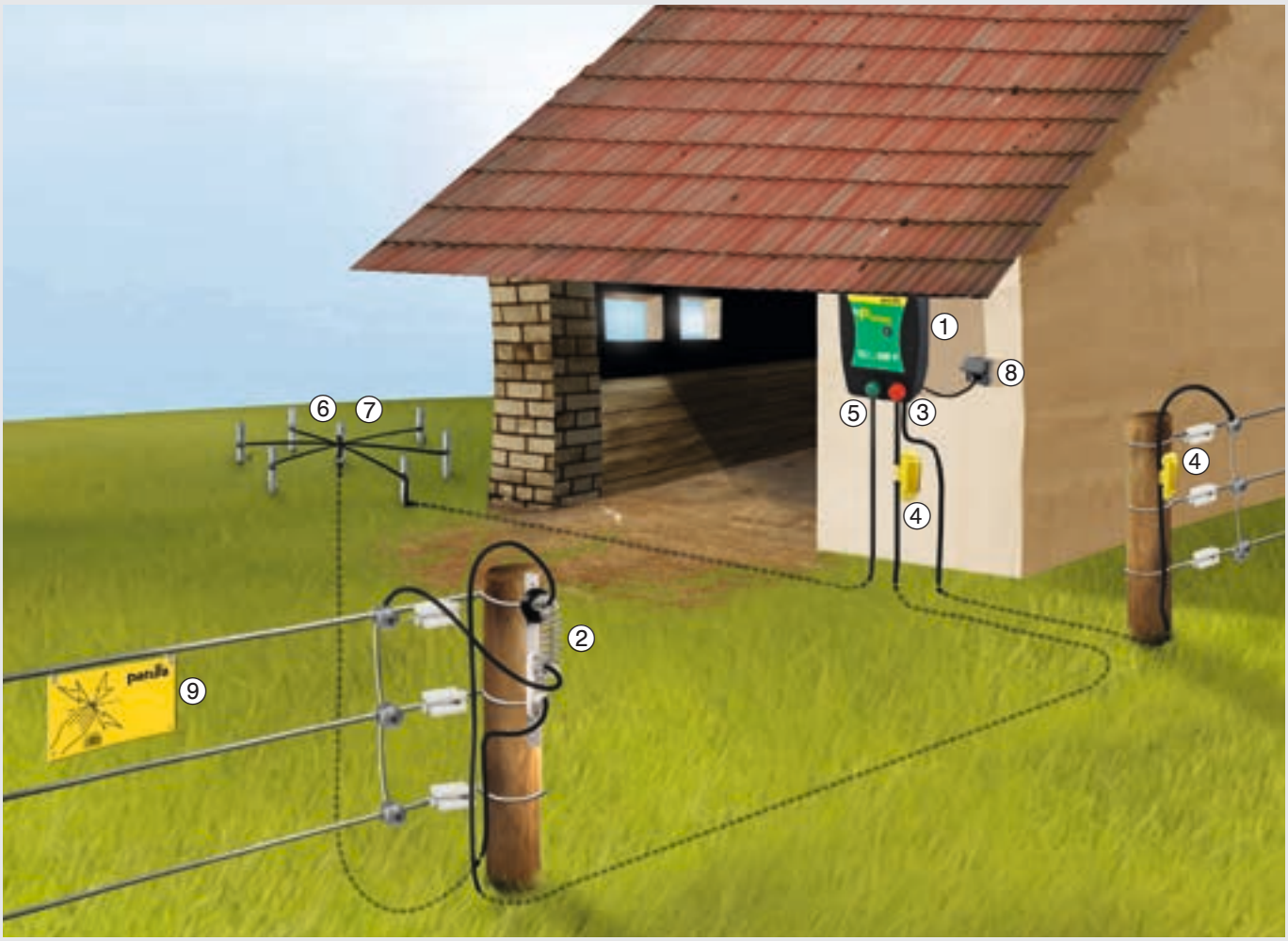
12 V Battery Energisers

	Ref.	Stored energy (joules)	Max. output energy (joules)	No-load voltage (volts)	Voltage at 500 ohms (volts)	Voltage at 100 ohms (volts)	Max. power consumption at 12 V (mA)	Supply voltage (volts)	Max. fence length in km (multiple wires): No vegetation	Normal vegetation	Heavy vegetation	No vegetation	Normal vegetation	Heavy vegetation	Fence indicator lights	Battery indicator lights	Day/night switch	Deep discharge protection	2 power levels	Recommended solar panel power output	Recommended battery (min Ah)	No. of 1 m earth stakes (min)	
P 100	146100	0.60	0.45	7900	4300	1500	50-70	12	5	2	0	2.5	1	0	-	-	-	•	-	15	60	1	Only perfect earthing allows maximum power at the fence
P 200	146200	1.5	1.1	9600	5400	1900	110-155	12	10	3	1	5	1.5	0.5	-	-	-	•	-	15	60	1	
P 300	146300	2.4	1.7	9900	5700	2100	170-260	12	15	5	1.5	7.5	2.5	0.75	-	-	-	•	-	25	60	2	

Further information can be found in section "Energiser Selection" (pages A4/A5)

The perfect installation of your PATURA mains energiser

Mains energisers should be used when there is a 230 V power outlet close to the pastures. Lead outs to the fence up to 200 meters can be easily made. A mains energiser is usually installed after the purchase and inconspicuously does its job for decades. Therefore it is particularly important that the unit is installed very carefully to guarantee a long-term and reliable operation of the energiser and the fence.



If you consider the following points you will have a long-term and reliable performance of your fences:

① A suitable location to install your mains energiser is on the outside of the wall of a building close to a power outlet and under a projecting roof, large enough.
② If you want to install your energiser inside a building this is only permitted in buildings with no fire hazard. Furthermore you have to install a lightning diverter before you insert a lead out cable into the building.
③ From the fence terminal of the energiser you run a special high voltage cable to your fence.
④ If you wish you can install a cut-out switch in order to switch ON or OFF the power to different pastures.
⑤ From the earth terminal of the energiser you run the same high voltage cable to your earth system.
⑥ Install your earth system quite away from the building at a location where the ground stays wet throughout the year.
⑦ Check your earth system at the time of installation and later on at least once a year preferably during a dry period.
⑧ Protect your energiser against a damage from a surge through the mains by installing a surge protector plug.
⑨ Mark your fence by placing suitable warning signs.

Detailed information on the different subjects you will find in the following chapter "Accessories".

How much energy does my energiser consume?

- Note the power consumption of the energiser (in Watt) from the table below, or from the identification label of the energiser e.g. P4000: 7.0 Watts
- Calculate the power consumption in kWh per year:
  Power consumption x 24 x 365 / 1000; e.g. For the P4000: 7.0 x 24 x 365 / 1000 = 61 kWh.
  Therefore, the energiser is consuming for year round operation 61 kWh, this converts into 5.1 kWh per month or 0.17 kWh per day.

3 year warranty

P 1000

Greatest value for money amongst PATURA 230 V energisers; for short fences for cattle, horses and domestic animals; energiser monitoring indicator;
Stored energy 0.75 joules

141000

P 2000

The 230 V energiser for short fences with light vegetation for cattle and horses; energiser monitoring indicator;
Stored energy 1.5 joules

142000

P 3000

The 230 V energiser for electric fences with vegetation for cattle and horses; energiser monitoring indicator;
Stored energy 2.7 joules

143000

P 4000

The 230 V energiser for electric fences for cattle, horses and sheep, also for longer fences with heavier vegetation; energiser monitoring indicator;
Stored energy 5.8 joules

144040

230 V Mains Energisers

	Ref.	Stored energy (joules)	Max. output energy (joules)	No-load voltage (volts)	Voltage at 500 ohms (volts)	Voltage at 100 ohms (volts)	Power consumption (watts)	Supply voltage (volts)	Max. fence length in km (multiple wires): No vegetation	Normal vegetation	Heavy vegetation	No vegetation	Normal vegetation	Heavy vegetation	Single indicator	Multiple fence voltage indicators	MaxiPuls technology	Adaptive control	Reduced voltage terminal	Remote control option	No. of 1 m earth stakes (min)
P 1000	141000	0.75	0.45	9700	4700	1400	2.0	230	5	2	0	2.5	1	0	•	-	-	-	-	-	1
P 2000	142000	1.5	1.1	9900	5400	2000	2.5	230	10	3	1	5	1.5	0.5	•	-	-	-	-	-	1
P 3000	143000	2.7	1.8	9200	5600	2100	4.0	230	15	5	1.5	7.5	2.5	0.75	•	-	-	-	-	-	2
P 4000	144040	5.8	3.2	9900	6100	2200	7.0	230	23	8	3	12	4	1.5	•	-	-	-	-	-	2

Only perfect earthing allows maximum power at the fence

Further information can be found in section "Energiser Selection" (pages A4/A5)

PATURA Multi-Voltage Energisers 12 V + 230 V = 1 Energiser

With only one energiser you can cover almost all conceivable application areas. The electronic of the energiser works with 12 V supply voltage. With the provided 12 V battery lead set it can be connected directly to a 12 V battery. The energiser is either mounted directly on the fence wire or on the fence post in a hanging position. If used as a mains energiser it will operate with an external mains adaptor connected to the 230 V mains supply. When used like this, the energiser including the mains adaptor need to be installed in a dry location, non firehazard buildings or below insufficient cover.

Do not use a cable reel outdoors in order to connect the energiser to the mains system

PATURA multi-voltage energiser - universally applicable

Mounted inside carry box: energiser and battery are sheltered inside the carry box in close proximity to the fence

230 V connection (with mains adaptor): inside a building (without fire risk) or on an outside wall below a cover

Mounting on a fence post: the energiser is directly attached to a fence post – The P1 is the ideal energiser for short temporary fences

Multi-Function Energisers

	Ref.	Stored energy (joules)	Max. output energy (joules)	No-load voltage (volts)	Voltage at 500 ohms (volts)	Voltage at 100 ohms (volts)	Power input at 230 V (W)	Max. power consumption at 12 V (mA)	Max. fence length in km (multiple wires): No vegetation	Normal vegetation	Heavy vegetation	No vegetation	Normal vegetation	Heavy vegetation	Operation with 12 V battery	Operation with 230 V mains adaptor	Energiser monitoring indicator	Battery deep discharge protection	Recommended solar panel power output (W)	Recommended battery (min Ah)	No. of 1 m earth stakes (min)	
P 1	147110	0.7	0.5	8300	4400	1600	1.0	60	5	2	0	2.5	1	0	•	•	•	•	15	60	1	Only perfect earthing allows maximum power at the fence
P 2	147210	1.4	1.0	9800	5300	1800	1.8	100	10	3	1	5	1.5	0.5	•	•	•	•	15	60	1	
P 3	147310	2.7	2.0	11000	5900	2100	3.0	195	15	5	1.5	7.5	2.5	0.75	•	•	•	•	25	80	2	
P 4	147410	4.5	3.0	11400	6200	2400	4.6	320	20	7.5	2.5	10	3	1	•	•	•	•	40	80	2	
P 5	147500	6.3	3.8	11000	6300	2600	6.3	450	25	8.5	3	12	3.5	1.2	•	•	•	•	40	100	3	

Further information can be found in section "Energiser Selection" (pages A4/A5)

P 1

The PATURA multi-voltage energiser for short fences with light vegetation for cattle, horses and domestic animals; deep discharge protection; including 230 V mains adaptor and 12 V connection cable
Stored energy: 0.7 joules

147110

Accessible Carry Box
900200

Carry Box Compact, with fully removable lid (max 84 Ah battery)
900201

P 2

The PATURA multi-voltage energiser for short fences with light vegetation for cattle and horses; deep discharge protection; including 230 V mains adaptor and 12 V connection cable
Stored energy: 1.4 joules

147210

Accessible Carry Box
900200

Carry Box Compact, with fully removable lid (max 84 Ah battery)
900201

P 3

The PATURA multi-voltage energiser for pasture with normal vegetation for cattle and horses; deep discharge protection; including 230 V mains adaptor and 12 V connection cable
Stored energy: 2.7 joules

147310

Accessible Carry Box
900200

Carry Box Compact, with fully removable lid (max 84 Ah battery)
900201

Boxes see pages A28/A29

P 4

The PATURA multi-voltage energiser for electric fences for cattle and horses, also for longer fences with normal vegetation; deep discharge protection; including 230 V mains adaptor and 12 V connection cable
Stored energy: 4.5 joules

147410

Accessible Carry Box
900200

Carry Box Compact, with fully removable lid (max 84 Ah battery)
900201

3 year WARRANTY

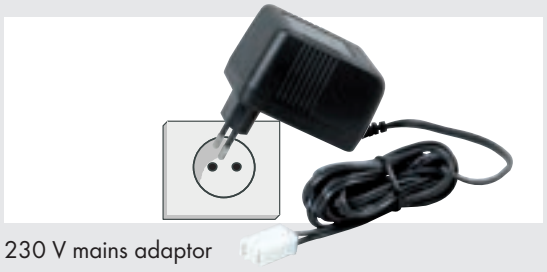
P 5

The PATURA multi-voltage energiser for electric fences for cattle, sheep and horses, also for longer fences with heavier vegetation; deep discharge protection; including 230 V mains adaptor and 12 V connection cable
Stored energy 6.3 joules

147500

Accessible Carry Box
900200

Included



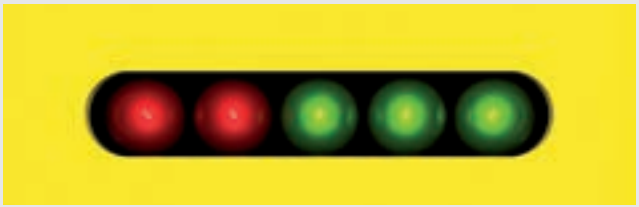
230 V mains adaptor

+

12 V battery lead set

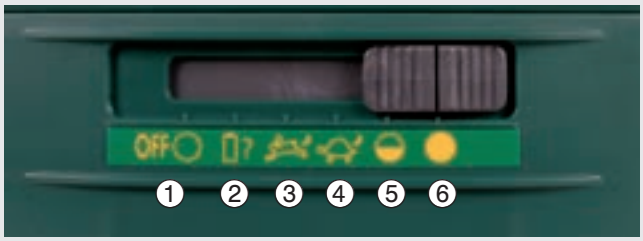
High power and easy operation

❶ 5-step indicator lights



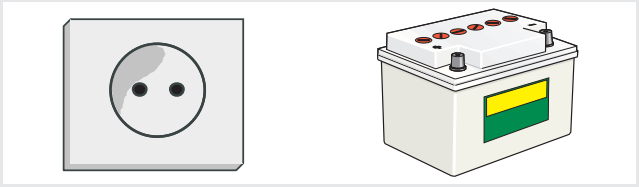
Switch position 3 to 6 displays the fence voltage
Switch position 2 displays the battery condition

❷ 6-step switch



① OFF
② Battery test
③ Fast at night, slow during the day
④ Slow at night, fast during the day
⑤ Half power
⑥ Full power

❸ These energisers work with 12 V supply voltage as well as with 230 V mains supply



Included

230 V mains adaptor | 12 V battery lead set | fence/earth lead set

Multi-Function Energisers

	Ref.	Stored energy (joules)	Max. output energy (joules)	No-load voltage (volts)	Voltage at 500 ohms (volts)	Voltage at 100 ohms (volts)	Max. power consumption (watts)	Power consumption at 12 V (mA)	Max. fence length in km (multiple wires): No vegetation	Normal vegetation	Heavy vegetation	No vegetation	Normal vegetation	Heavy vegetation	Operation with 12 V battery or 230 V mains adaptor	Two power levels / Day/Night switch	5-step fence and battery monitor	Battery deep discharge protection	Recommended solar panel power output (W)	Recommended battery (min Ah)	No. of 1 m earth stakes (min)	
P 1500	142100	1.4	1.0	9800	5300	1800	2.0	60-110	10	3	1	5	1.5	0.5	•	•	•	•	15	60	1	Only perfect earthing allows maximum power at the fence
P 2500	142200	2.7	2.0	11000	5900	2100	3.2	105-210	15	5	1.5	7.5	2.5	0.75	•	•	•	•	25	80	2	
P 3500	142300	4.5	3.0	11400	6200	2400	4.8	165-340	20	7.5	2.5	10	3	1	•	•	•	•	40	80	2	
P 3800	142400	6.3	3.8	11000	6300	2600	6.7	230-480	25	8.5	3	12	3.5	1.2	•	•	•	•	40	100	3	

Further information can be found in section "Energiser Selection" (pages A4/A5)

3 year WARRANTY

P 1500

The PATURA multi-function energiser with the newest, efficient energiser technology for short fences with little vegetation for cattle and horses; 5-step fence and battery monitor, 6-step switch, deep discharge protection; including 230 V mains adaptor, stainless steel 12 V battery lead set and fence/earth lead set
Stored energy: 1.4 joules

142100

P 1500 with accessible carry box
142110

P1500 with carry box Compact (max. 84 Ah battery)
142130

P1500 with anti-theft-box and earth stake*
142120

P 2500

The PATURA multi-function energiser with the newest, efficient energiser technology for fences with normal vegetation; 5-step fence and battery monitor, 6-step switch, deep discharge protection; including 230 V mains adaptor, stainless steel
12 V battery lead set and fence/earth lead set
Stored energy: 2.7 joules

142200

P 2500 with accessible carry box
142210

P2500 with carry box Compact (max. 84 Ah battery)
142230

P 2500 with anti-theft-box and earth stake*
142220

Boxes see pages A28/A29

P 3500

The PATURA multi-function energiser with the newest, efficient energiser technology even for longer fences with normal vegetation; 5-step fence and battery monitor, 6-step switch, deep discharge protection; including 230 V mains adaptor, stainless steel 12 V battery lead set and fence/earth lead set
Stored energy: 4.5 joules

142300

P3500 with accessible carry box
142310

P3500 with carry box Compact (max. 84 Ah battery)
142330

P3500 with anti-theft-box and earth stake*
142320

P 3800

The PATURA multi-function energiser with the newest, efficient energiser technology even for longer fences with heavier vegetation; 5-step fence and battery monitor, 6-step switch, deep discharge protection, including 230 V mains adaptor, stainless steel 12 V battery lead set and fence/earth lead set
Stored energy: 6.3 joules

142400

P3800 with accessible carry box
142410

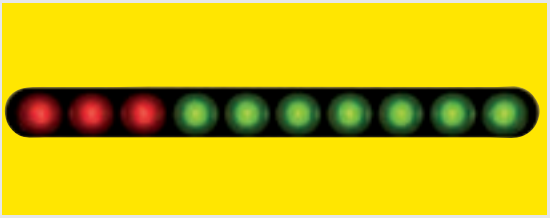
P3800 with anti-theft-box and earth stake*
142420

* Day and night safe operation not possible

Highest power + easy operation + optimal control

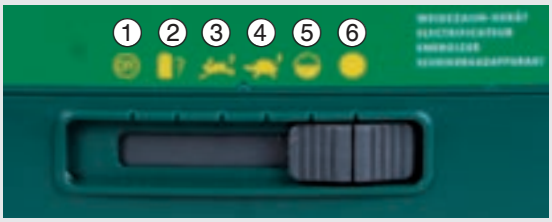
WINNER
SOMMETS
French Innovation Award

❶ 10-step indicator lights



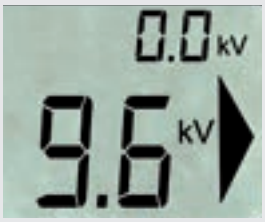
Switch position 3 to 6 displays the fence voltage in steps of 1000 V
Switch position 2 displays the battery condition in steps of 10 %

❷ 6-step switch

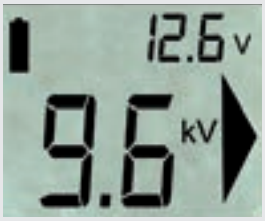


① OFF
② Battery test
③ Fast at night, slow during the day
④ Slow at night, fast during the day
⑤ Half power
⑥ Full power

❸ Digital display (P 4600)



Switch setting 3 to 6:
Bottom: Fence voltage display in kV = 1000 volts
Top: Earth voltage display in kV



Switch setting 2 (Battery test)
Bottom: Fence voltage display in kV = 1000 volts
Top: Battery voltage display in volts
e.g. 12.6 volts = fully-charged battery; 11.7 volts = discharged battery

Multi-Function Energisers

Max. fence length in km (multiple wires)

	Ref.	Stored energy (joules)	Max. output energy (joules)	No-load voltage (volts)	Voltage at 500 ohms (volts)	Voltage at 100 ohms (volts)	Power consumption (watts)	Max. power consumption at 12 V (mA)	No vegetation	Normal vegetation	Heavy vegetation	No vegetation	Normal vegetation	Heavy vegetation	Operation with 12 V battery or 230 V mains adaptor	Time-delayed and load alternation alarm	Two power levels / day / night switch	10-step fence and battery monitor	Digital display	Earth monitoring	Remote control option	Recommended solar panel power output (W)	Recommended battery (min Ah)	No. of 1 m earth stakes (min)
P 4500	145410	9.0	6.0	9500	6800	3600	10	330-650	30	10	5	15	5	2.5	•	•	•	•	-	-	-	65	130	3
P 4600	145450	9.0	6.0	9500	6800	3600	10	330-650	30	10	5	15	5	2.5	•	•	•	•	•	•	•	65	130	3

Only perfect earthing allows maximum power at the fence

Further information can be found in section "Energiser Selection" (pages A4/A5)

Energisers with time-delayed adaptive control and load alternation alarm

P 4500 MaxiPuls

The PATURA multi-function energiser with MaxiPuls technology for long fences with heavy vegetation for cattle, sheep, horses and to deter wild animals; 10-step fence and battery control, 6-step switch, deep discharge protection, including 230 V mains adaptor, stainless steel 12 V battery lead set and fence/earth lead set.
Stored energy: 9.0 joules

145410

P4500 with accessible carry box
145420

P4500 with anti-theft-box*
145430

3 year WARRANTY

Boxes see pages A28/A29

P 4600 MaxiPuls

The PATURA multi-function energiser with MaxiPuls technology for long fences with heavy vegetation for cattle, sheep, horses and to deter wild animals; 10-step fence and battery control, 6-step switch, deep discharge protection, digital display to monitor the fence, the earthing and the battery; earth monitoring via reference earth; including 230 V mains adaptor, stainless steel 12 V battery lead set and fence/earth lead set.
Stored energy: 9.0 joules

145450

P4600 with accessible carry box
145460

P4600 with anti-theft-box and earth stake*
145470

Remote Control

Remote control as an upgrade to P 4600 - P8000; includes fence compass, i.e., with digital voltmeter and ammeter; ideal for use on wires; limited use on polywire, not suitable for polyrope or polytape

151001

Included

230 V mains adaptor

+

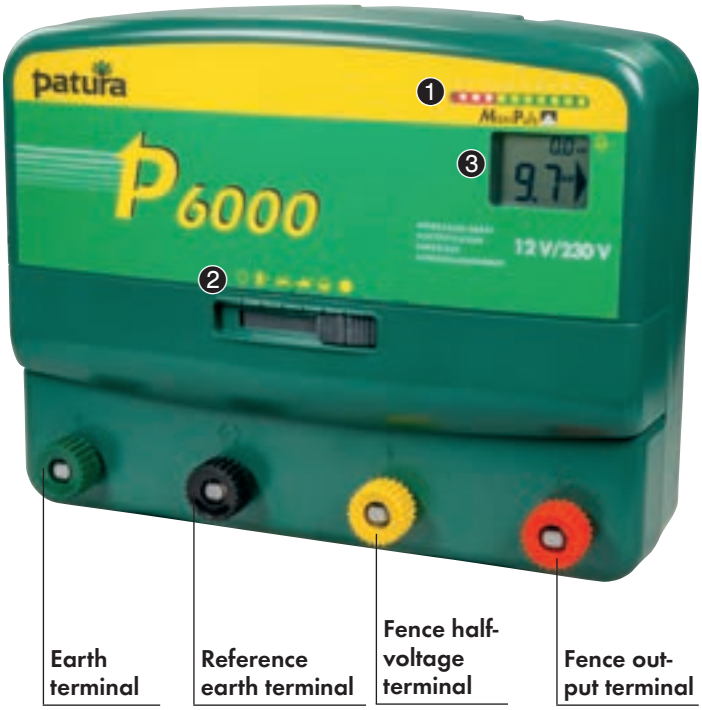
12 V battery lead set

+

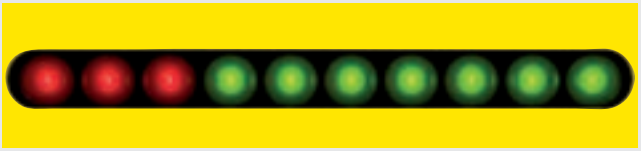
fence/earth lead set

* Day and night safe operation not possible

P 6000: The most powerful multi-function energiser with comfort to the fullest



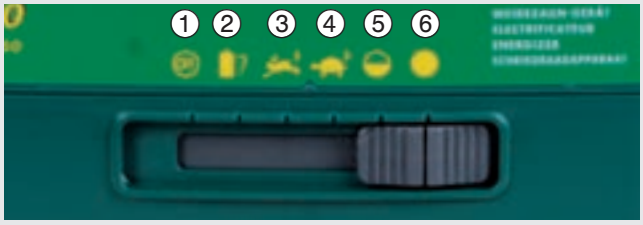
❶ 10-step indicator lights



Switch position 3 to 6 displays the fence voltage
Switch position 2 displays the battery condition

Control monitor	Fence voltage	Battery condition
① Red	over 1000 volts	0 – 10 % full
② Red	over 2000 volts	10 – 20 % full
③ Red	over 3000 volts	20 – 30 % full
④ Green	over 4000 volts	30 – 40 % full
⑤ Green	over 5000 volts	40 – 50 % full
⑥ Green	over 6000 volts	50 – 60 % full
⑦ Green	over 7000 volts	60 – 70 % full
⑧ Green	over 8000 volts	70 – 80 % full
⑨ Green	over 9000 volts	80 – 90 % full
⑩ Green	over 10000 volts	90 – 100 % full

❷ 6-step switch

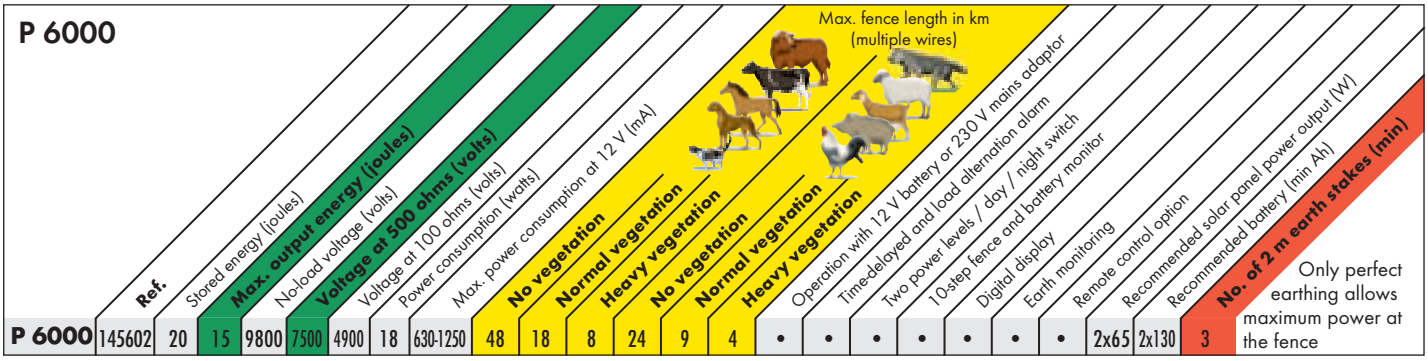


① OFF
② Battery test
③ Fast at night, slow during the day
④ Slow at night, fast during the day
⑤ Half power
⑥ Full power

❸ Digital display

Switch setting 3 to 6:
Bottom: Fence voltage display in kV = 1000 volts
Top: Earth voltage display in kV

Switch setting 2 (Battery test)
Bottom: Fence voltage display in kV = 1000 volts
Top: Battery voltage display in volts
e.g. 12.6 volts = fully-charged battery;
11.7 volts = discharged battery



Further information can be found in section "Energiser Selection" (pages A4/A5)

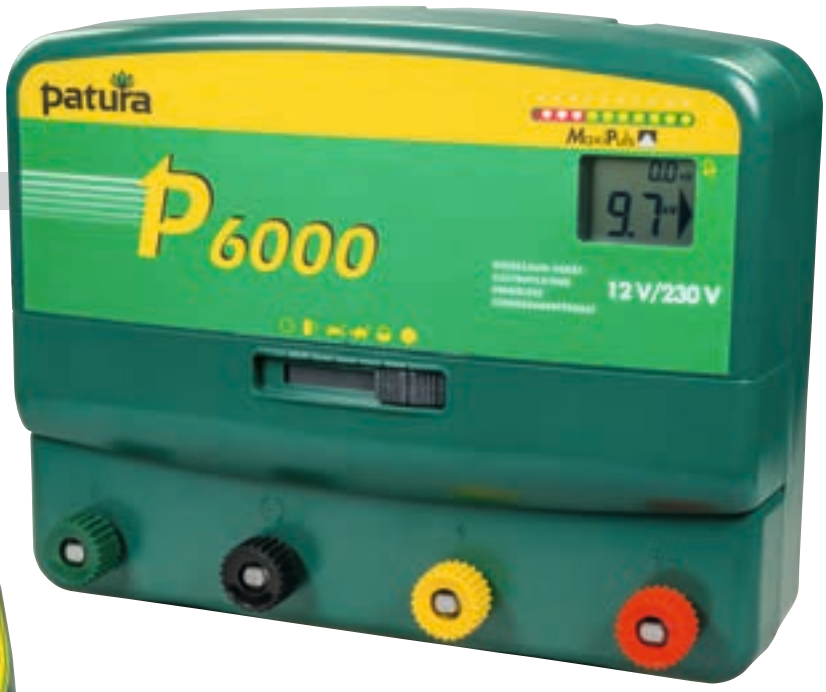
Energisers with time-delayed adaptive control and load alternation alarm

3 year WARRANTY

P 6000 MaxiPuls

The PATURA Multi-function energiser with MaxiPuls technology for long fences with heavier vegetation for cattle, sheep, horses and to deter wild animals; 10-step fence and battery monitor, 6-step switch, deep discharge protection, digital display to monitor the fence, earthing and battery; earth monitoring via reference earth; including 230 V mains adaptor, stainless steel 12 V battery lead set and fence/earth lead set
Stored energy: 20.0 joules

145602



Remote Control

Remote control as an upgrade to P 4600 - P8000; includes fence compass, i.e., with digital voltmeter and ammeter; ideal for use on wires; limited use on polywire, not suitable for polyrope or polytape

151001

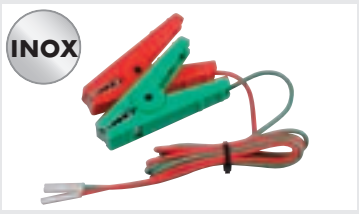
Included


230 V mains adaptor

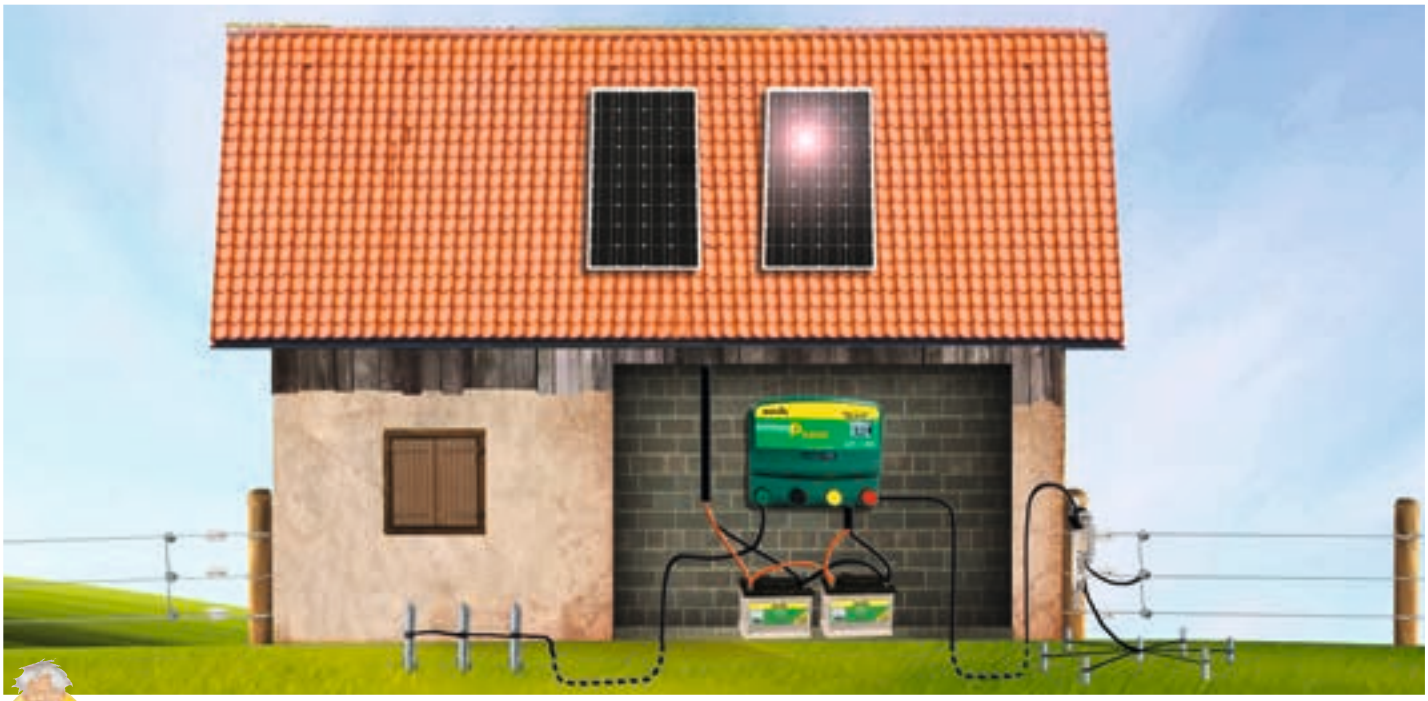
+

12 V battery lead set

+



fence/earth lead set



For reliable operation of high-performance energisers with battery we absolutely recommend the use of stationary solar panels.

PATURA P8000 Tornado Power
Technological leap in energisers

Since 2010, only energisers with a maximum of 15 Joules can be sold in Europe. Based upon intensive research and long-time field tests, PATURA has implemented a completely new technology in energisers. With 15 Joules output energy, the new PATURA P8000 Tornado Power achieves the same or even higher fence voltages compared to the previous model P8000 with 37 Joules, even under high load conditions at the fence. This extreme efficiency improvement was achieved through the help of an isolated power supply (IPC) which is used for the first time in energisers.

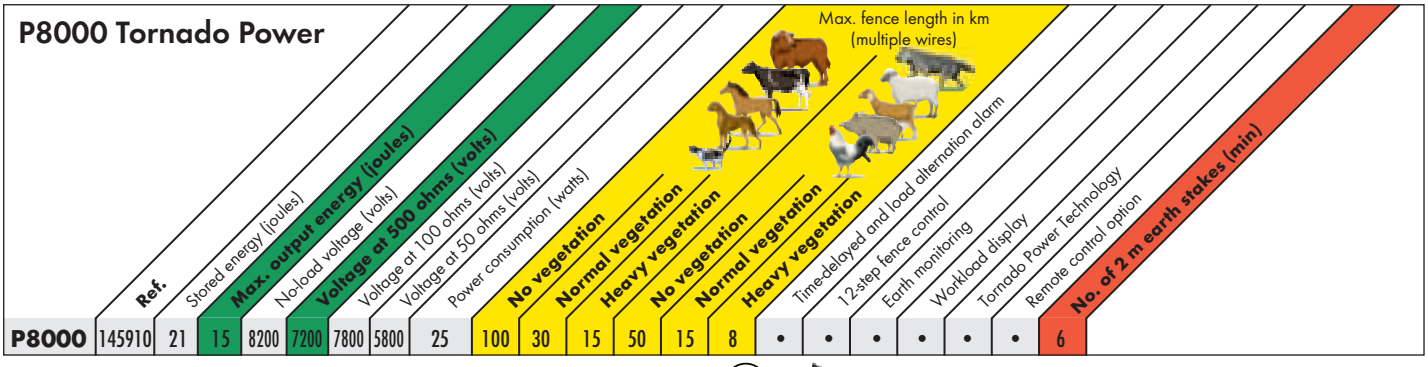
The power supply with inductive coupling is simply plugged into the back of the energiser. There is no direct connection from the power supply to the energiser itself

Innovative power supply in energisers

With the P8000 Tornado Power, the legally required insulation between fence and power supply has been transferred from the transformer to the power supply. The energy is transmitted according to the principle of inductive, electromagnetic coupling. This new innovative power supply (IPC: Isolated Power Coupling) is the prerequisite for a considerable increase in efficiency in device electronics. Especially through lower resistances in the transformer and in the output circuits, it was achieved that the fence voltage remains high even under an extreme load. This technology is protected by patent law.

Watch now onfarm demonstration video

3 year WARRANTY



Further information can be found in section "Energiser Selection" (pages A4/A5)

Energisers with time-delayed adaptive control and load alternation alarm

PATENT Patent applied for APPLIED FOR

P8000 Tornado Power

The most powerful PATURA energiser for extreme fence conditions and fence lengths; with Tornado Power Technology and active power adjustment; seperate remote control available
Stored energy: 21 Joules

145910

Remote Control

Remote control as an upgrade to P 4600 - P8000; includes fence compass, i.e., with digital voltmeter and ammeter; ideal for use on wires; limited use on polywire, not suitable for polyrope or polytape

151001

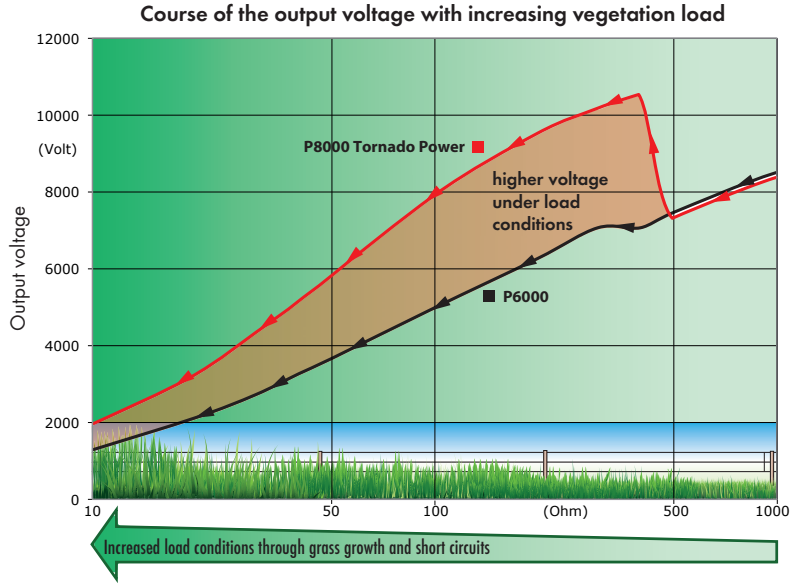
For the P8000 Tornado Power, generally we recommend the use of PATURA high voltage cable alumunium 2.7 mm (Ref. 161160)

The decisive advantages for the livestock owner

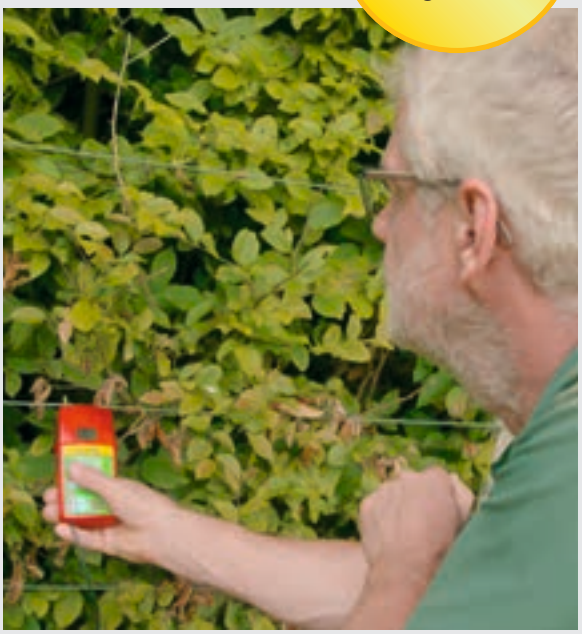
- The ultra-low-impedance design with Tornado Power Technology allows highest voltages in the fence, even with vegetation.
- Even though limited to 15 Joules, the P8000 Tornado Power achieves at least the same or often even higher fence voltages compared to the clearly stronger previous model P8000 with 37 Joules impulse energy.
- Provides significantly higher fence voltages compared to equivalent conventional devices, when there is vegetation.
- 50% less power consumption with the same degree of safety in comparison to the previous model.
- The power supply via the isolated power transmission (IPC) offers at least a 10 times higher protection against lightning strikes and overvoltage.

Extremely high fence voltage even with heavy vegetation

P8000 Tornado Power in comparison with P6000: Course of the output voltage with increasing vegetation load



In the main working range under 500 Ohms, the output voltage of the new P8000 Tornado Power is significantly higher than that of the equally strong P6000.



Even when there is heavy vegetation at the fence, the P8000 achieves fence voltages of 5000 Volts.

Easy transportation - the PATURA Carry Boxes

The PATURA Carry Box provides two functions: protection against weather and transport aid. A handle on everything: energiser, battery and solar panel. Most convincing arguments are the robust and large construction of the box, that make it easy to change the energiser.

Accessible Carry Box

Large galvanised metal box
Suitable for use with the following energisers:
P 1500 - P 4600; P 1 - P 5; P 100 - P 300
Note: Mounting kit (Ref. 90020001) for energisers P100 - P300 needed!

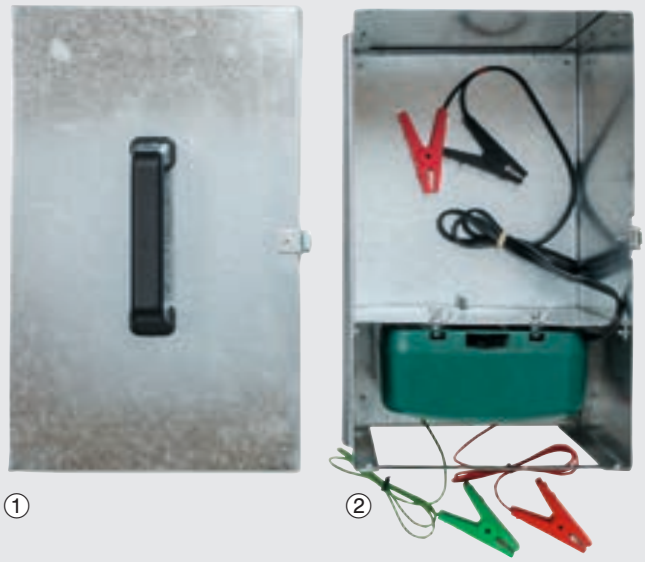
900200 Accessible Carry Box

① The accessible carry box is ideal to get a durable and stable system for an energiser with solar panel.
② Enough space in order to use even bigger sized batteries (up to 36 cm length)
All PATURA 12 V- and Multi-Function Energisers (except P6000) can be easily installed in the box.

Carry Box Compact, with fully removable lid

Carry box with fully removable lid.
Due to its smaller size and well protection, it is paticularly appropriate for long and frequent transportations.
Suitable for use with the following energisers: P 1500 - P 3800; P 1 - P 5; P 100 - P 300

900201 for energiser P 1500 - P 3500 / P 1 – P 4
900202 for P100 - P300



① A fully removable lid, fixed with a quick-lock, allows for excellent access to the battery and energiser.

② 12 V batteries, up to 29 cm length, can be carried in this box.

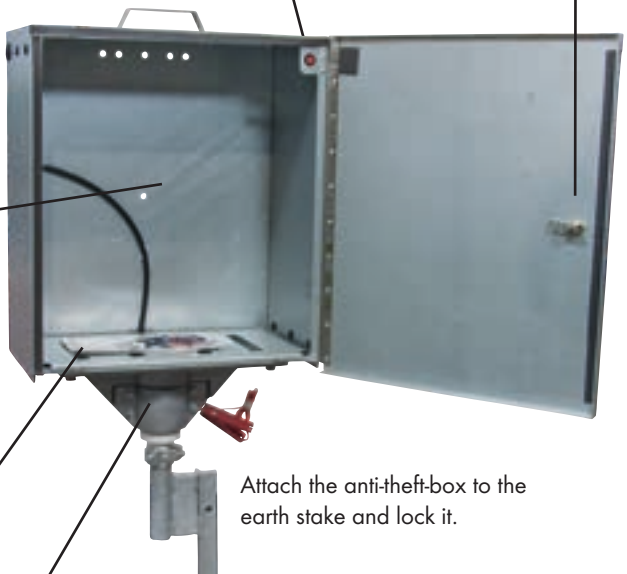
Anti-theft protection by electric shock - The PATURA Anti-theft-box

The box gets electrical impulses from the inside placed energiser. It is also protected through a mechanical lock. When opening the door with the insulated key, the door contact switch interrupts the current flow.
There is enough space in the box for energiser and battery. PATURA anti-theft-box is optional available with different solar panels. Use the earth stake as stand.

PATURA anti-theft-box is available with different solar panels.

The box receives electrical impulses through the door contact switch when closing the door. When the door is locked there is a current on the whole box.

Open and close the door safely with the insulated key.



Attach the anti-theft-box to the earth stake and lock it.

All PATURA multi-function energisers (except P6000) could be placed in the anti-theft-box with low effort.

Anti-Theft-Box

with 2 insulated keys and earth stake

900301 Anti-Theft-Box
161903 Spare Earth Stake

Enough space to use even bigger sized batteries (up to 38 cm length)

An insulation ring prevents power loss by the stand.

Solar power, the environmentally friendly energy

By means of the progressing and proven technology in the area of solar panels, the sun is rapidly becoming a source of cheap energy for electric fences, too. The costs are restricted to a one-time acquisition of a solar panel. There are no further maintenance or follow-up costs. Given correct dimensioning, PATURA solar installations are designed to run an electric fence installation, maintenance free, from spring through autumn. If the energisers are switched down to a lower power level, this maintenance-free operation can be continued well into the winter.

15 W solar panel with P 1500 and carry box

- Polycrystalline cells for highest energy efficiency
- 5 year efficiency warranty for all solar panels
- All solar panels with integrated charge regulator
- Universal bracket allows mounting on all energisers, onto posts and on walls

Universal bracket made from aluminium

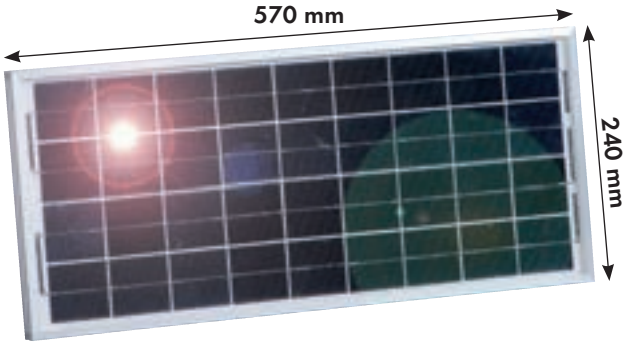
PATURA solar installations with integrated charge regulator

PATURA solar panels with integrated charge regulator are supplied with plug-in connector cables for all PATURA energisers. In order to select the solar panel that suits your energiser the following requirements need to be met to ensure a trouble-free operation:

1. Use the recommended minimum size solar panel for the particular energiser
2. Note the minimum battery size required
3. When adverse conditions exist double the solar panel power output

Integrated charge regulator

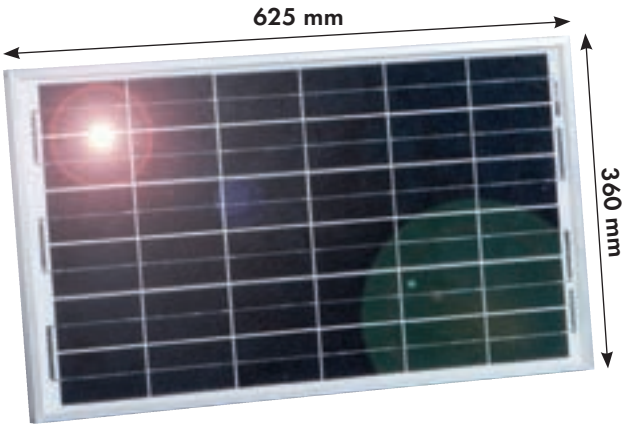
Solar panel 15 W with carry box and universal bracket



Solar Panel 15 W

Including connecting cables, integrated charge regulator; polycrystalline silicon cells; rigid aluminium frame;

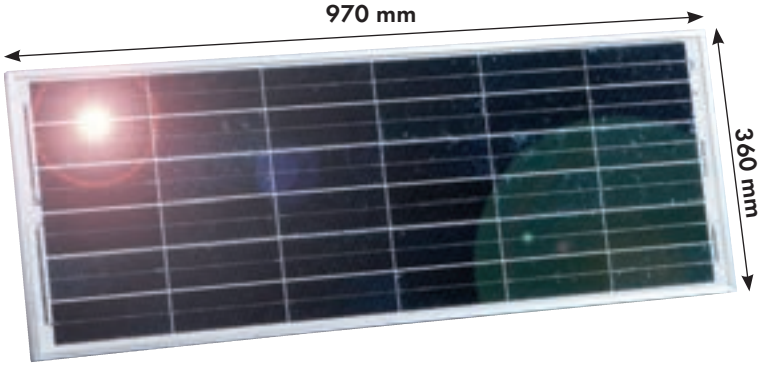
148420 Solar panel 15 W
148421 With universal mounting bracket for P 100, P 200, P 1500
148431 With mounting bracket for MaxiBox P250



Solar Panel 25 W

Including connecting cables, integrated charge regulator; polycrystalline silicon cells; rigid aluminium frame;

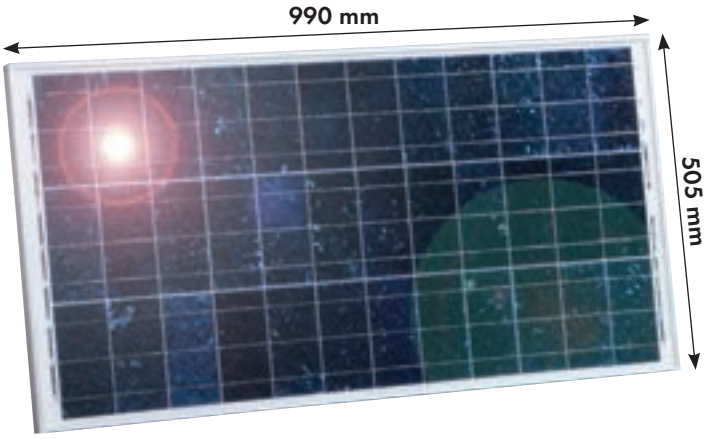
148520 Solar panel 25 W
148521 With universal mounting bracket for P 300, P 2500
148531 With mounting bracket for MaxiBox P350



Solar Panel 40 W

Including connecting cables, integrated charge regulator; polycrystalline silicon cells; rigid aluminium frame;

148620 Solar panel 40 W
148621 With double universal mounting bracket for P3500/P3800



Solar Panel 65 W

Including connecting cables and integrated charge regulator; polycrystalline silicon cells; rigid aluminium frame;
For the P 6000, 2 x 65 W solar panels are required

148720 Solar panel 65 W
148721 With double universal mounting bracket for P4500/P4600

Solar Panel	Ref.	Suitable for use with*	Length (mm)	Width (mm)	Operation with 12 V battery (min Ah)	Polycrystalline cells	Integrated charge regulator	Aluminium frame	Connection-ready wiring	Universal mounting bracket	Special mounting bracket
15 Watt	148421/148431	P 100/P 200/P 250/P 1500/P 1/P 2	568	243	80	•	•	•	•	•/-	-/•
25 Watt	148521/148531	P 300/P 350/P 2500/P 3	627	360	100	•	•	•	•	•/-	-/•
40 Watt	148621	P 3500/P 3800/P 4/P 5	970	360	100	•	•	•	•	•	-
65 Watt	148721	P 4500/P 4600	986	507	130	•	•	•	•	•	-
2 x 65 W	–	P 6000	986	507	2 x 130	•	•	•	•	•	-

For critical irradiation conditions, like partial shading, suboptimal south exposure, foggy sites, we recommend to double the solar cell power output

* Maintenance-free operation on full power level from spring to summer, given accurate south-orientation and the opportunity of receiving full daily sun (no partial shading); for winter operation set energiser to lower power levels and re-charge battery as required.

The PATURA Solar Energiser - Clever combination of energiser, battery and solar panel

This kind of energiser integrates an energiser with solar panel and gel-cell battery. Through this symbiosis, it is possible to compact dimensions to combine low weight and optimum stability in one energiser. All this is rounded off by an intelligent electronic. The unit continuously adjusts its output to the charge status of the battery. This provides a maintenance-free operation from spring to autumn.
For this reason these units are ideal for small pastures with little vegetation and hobby farming.

Place the unit when it is not used in the winter, in the turned off state in a sunny spot. This will ensure that the battery is charged continuously until spring.

❶ Robust and easy to transport

PATURA Solar Energisers are perfect for mobile operations. The strongest points are easy transportation and efficiency. The stabil fence and lead set, the storage space for the clamps, the stabil and ergonomic handle as well as the light weight of less than 2 kilo (P25) - these are the advantages that underline the use of these energisers for small numbers of animals or where there is a frequent change of area.

❷ Easy installation

Place the unit with the mounting slot directly to an earth stake (or T-posts). The device should not be placed on the floor. The solar module must be aligned exactly to the south.

❸ Intelligence included

Complete operation by just one touch screen display. PATURA sollar installations are designed to run an electric fence installation, maintenance free, from spring to autumn, even during long periods of bad weather, due to the self-regulation system of the battery.

P 25 Solar

Energiser with integrated 1.0 W solar panel and 6 V / 4 Ah gel-cell battery; for trouble-free electric fence operation from spring to autumn; ideal for short fences; incl. fence/earth lead set; stored energy: 0.06 J

140300

P 35 Solar

Energiser with integrated 5 W solar panel and 12 V/7 Ah gel-cell battery; for problem-free electric fence operation from spring through autumn; ideal for small cattle and horse pastures; incl. fence/earth lead set; stored energy: 0.21 J

140400

3 year WARRANTY

P 70 Solar

Energiser with integrated 5 W solar panel and 12 V/7 Ah gel-cell battery; for problem-free electric fence operation from spring through autumn; ideal for cattle and horse pastures; incl. fence/earth lead set; stored energy: 0.64 J

140600

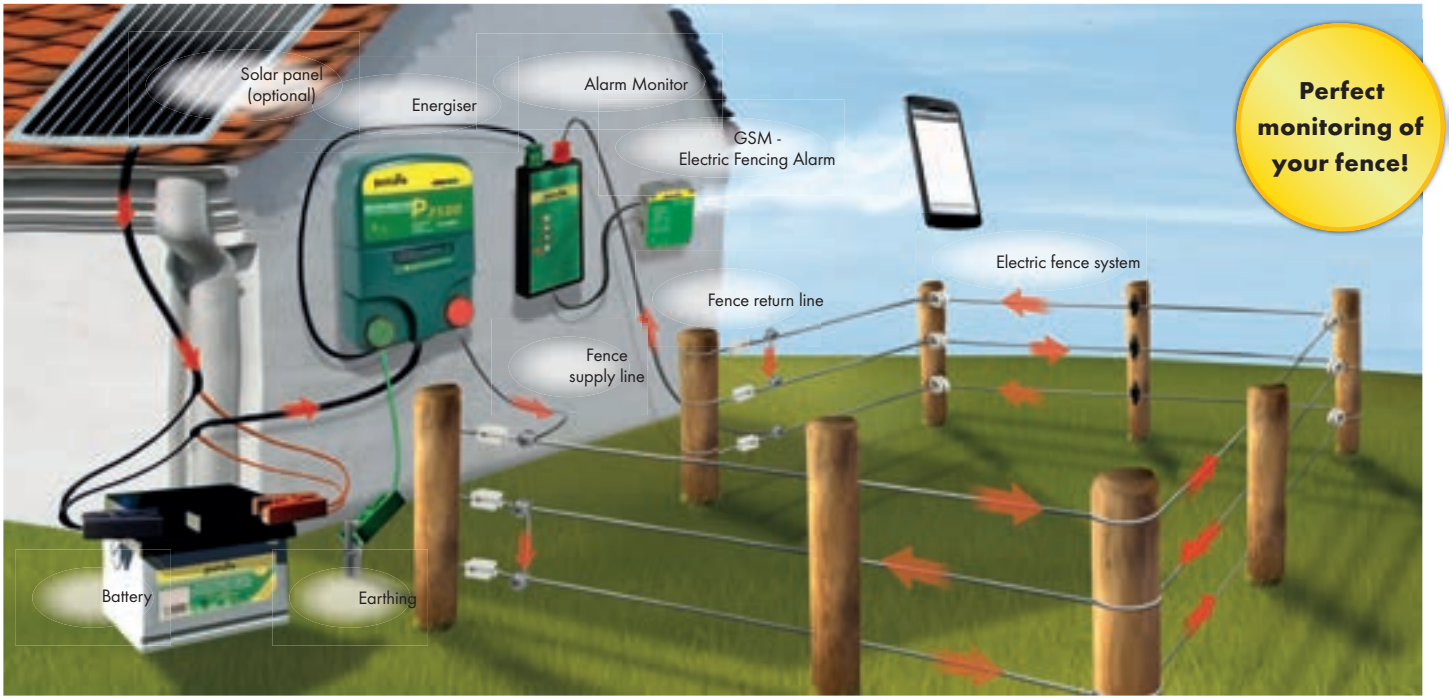
Solar Installations

	Ref.	Stored energy (joules)	Max. output energy (joules)	No-load voltage (volts)	Voltage at 500 ohms (volts)	Max. power consumption (mA)	Max. fence length in km (multiple wires): No vegetation	Max. fence length in km (multiple wires): Little vegetation	Minimum length of earth stake (metres)
P 25 Solar	140300	0.06	0.04	4500	1400	15	0.8	0.2	0.60
P 35 Solar	140400	0.21	0.15	9500	2600	20	1.6	0.6	0.60
P 70 Solar	140600	0.64	0.52	9600	4800	15 - 50	4.0	2.0	0.60

Security for your pastures

Monitoring electric fences by mobile phone

Finally, a reliable, complete and comfortable supervision of remote pastures is possible. With the assistance of modern mobile phone technology, every alarm signal can now be transmitted to a mobile, and/or landline telephone. All you need is a SIM-card of your choice, and the mobile alarm transmitter unit will dial into all the usual GSM networks. When using battery energisers out in the field, all the elements (energiser, alarm monitor, mobile alarm and battery) are well protected in the vandal-proof box. This box is energised with the same high voltage as the fence itself. Many years of experience have shown that this is the best form of anti-theft protection.



Schematic showing the monitoring of an electric fence system powered by batteries (with an optional solar panel) – within minutes the electric fence alarm will be transmitted from the most remote paddock to the mobile and/or landline telephone.

GSM - Electric Fencing Alarm

Mobile alarm transmitter unit for forwarding signals of the alarm via SMS. Control of battery voltage; built-in backup battery; operation with 12 V battery or power supply (order separately Ref. 150220)
GSM network must be accessible
SIM-card not supplied

GSM - Electric Fencing Alarm
156305

GSM Electric Fence Alarm with alarm monitor, completely preinstalled
156306

Siren

For attachment to the PATURA alarm monitor (Ref. 156001); 12 V, 120 dB

156901

Flashing Light

For attachment to the PATURA alarm monitor (Ref. 156001); 12 V

156801

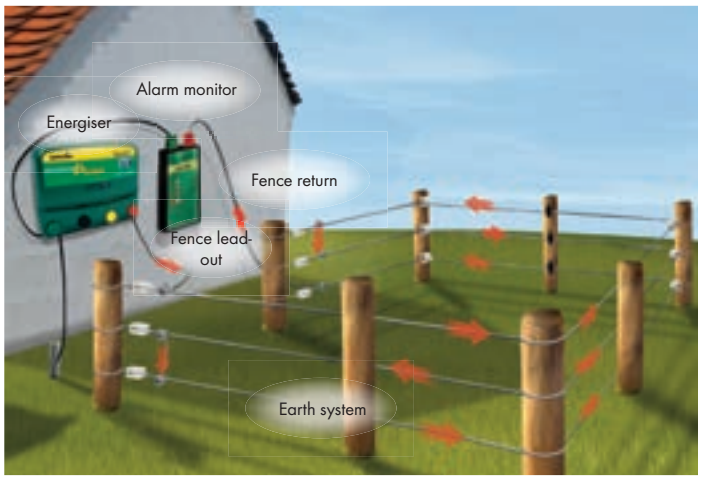
Alarm Monitor

In the event of a drop in the fence voltage or a broken wire, an optical and an acoustic signal are generated; the voltage at which this occurs can be pre-set; connection for external alarm transmitters; for both mains and battery energisers. Power supply by 12 V battery or mains adaptor (order separately: mains adaptor Ref. 150220)

156001

Alarm system

Provides a constant and reliable monitoring of an electric fence. You can protect your outer fence – including any gates – without a gap. An alarm is released within seconds. In the event of a drop in voltage due to vegetation growth, or a short circuit/wire breakage, optical and acoustic signals are released. The voltage at which this occurs can be pre-set. The alarm signal can be fed to sirens, flashing lights, automatic phone dialers and mobile alarm transmitters.

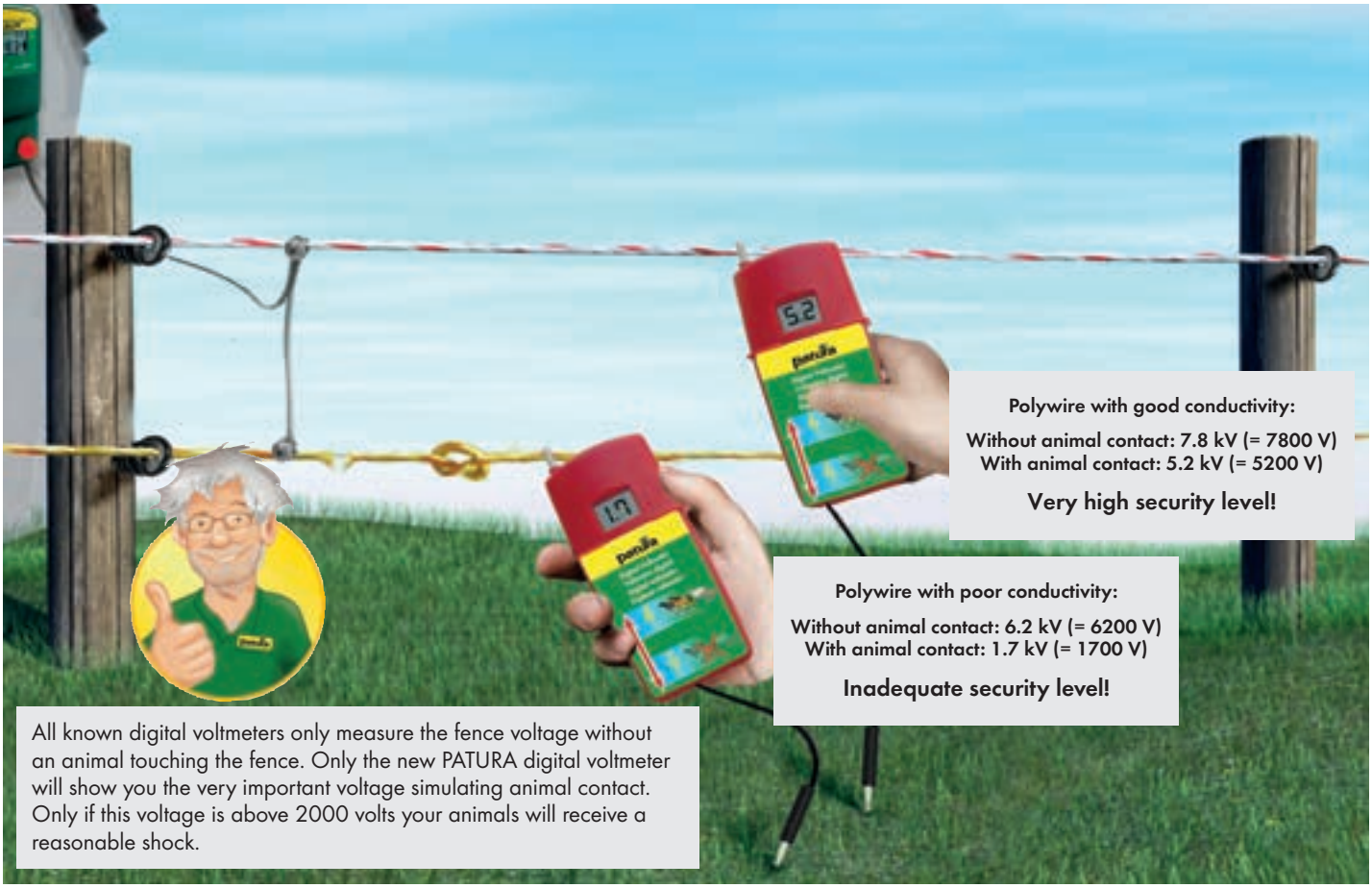


The highest safety level for all energisers by means of consistent supervision of the fence via the alarm monitor within a closed loop fence system.

Effective animal control with electric fencing

To maintain the safety of electric fences, also in the legal sense, the operator is obliged to consider the following terms:

1. The fence voltage must be at least 2000 volts at every point on the fence. PATURA recommendation: 3000 volts.
2. This is to be monitored regularly through daily measurements of the fence voltage.
3. This presupposes the presence of appropriate testing devices such as a fence tester, a digital voltmeter, a fence compass, a fence alert or a separate alarm system for an electric fence.
4. For difficult or long haired animals a fence voltage of 4000 volts is recommended.
5. Energisers with adequate power (output energy) to meet the above mentioned demands, even when there are losses due to vegetation on the fence, must be installed.
6. The fence and/or the fencing material should comply with the common level of technology.
7. Depending on the fence length, fence wiring with good conductivity should be used.
8. An appropriate fence height and/or number of wires should be allowed for, depending on risk potential and animal species.



Do your animals respect the electric fence?

With the PATURA digital voltmeter you will know, whether the shock voltage for the animal is high enough when it touches the fence.

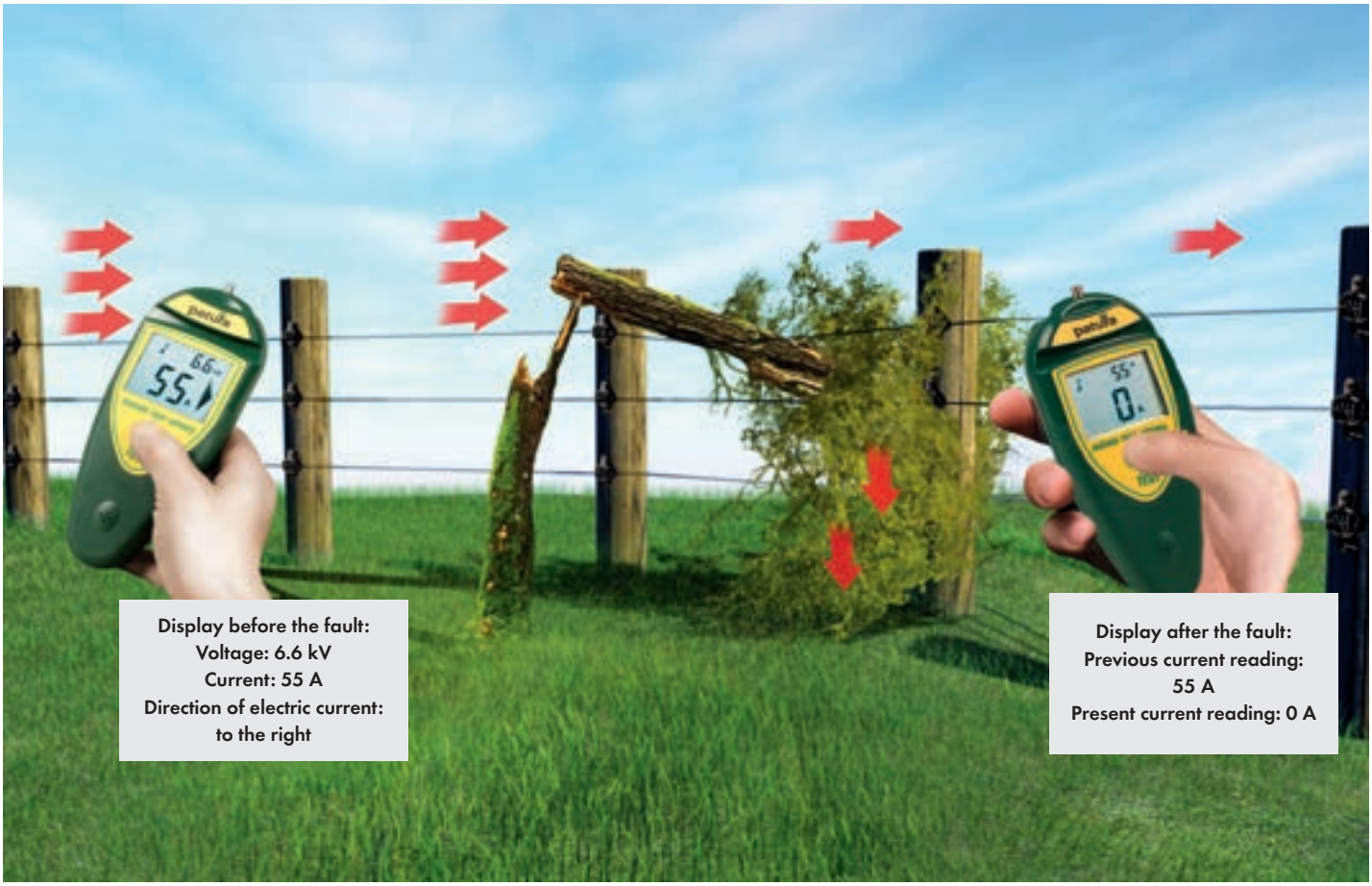
PATURA Digital Voltmeter with integrated load resistor to simulate animal contact

At the electric fence it is not the no-load voltage that is important, but rather the electric shock the animal actually feels when touching the fence. Animal contact is simulated via an activatable resistor. The displayed voltage with activated resistor indicates what the animal really feels. You can easily see whether there are problems along the fence which obstruct an effective current flow. Among them are especially polywire and polytape with poor conductivity, bad connections and inadequate earthing.
When the load resistor is not activated, the PATURA digital voltmeter is suitable for all measurements you usually carry out with a voltmeter, like measuring the fence voltage, measuring the output voltage and monitoring the earthing.

Digital Voltmeter

The ideal measuring instrument with earth stake and fence contacts; digital display; essential for the monitoring of electric fences, their earthing, for fault finding and for checking equipment; with integrated activatable load resistor to simulate animal contact

150302



The Fence Compass will show you via the display the current flow and specific directional arrows in the direction of the fault in the fence. Beyond the fault, the current strength drops towards zero, and the directional arrow disappears.

PATURA Fence Compass
Voltmeter + Ammeter = Easy fault finding

The fence compass is a new development in the management tool technology – it shows you where the current in your fence is being lost. Technically, the equipment is a digital voltmeter with a built-in ammeter, which indicates fence voltage, current strength and direction of current flow. For ease of operation the unit is designed without the need for an earth stake. With back-lit LCD and audible indicator of current in the wire.

1. Loudspeaker
2. Current direction (to the left)
3. Current display (5 amperes)
4. Voltage display (6.6 kV= 6600 volts)
5. Measuring slot (at the rear) for wires and polywires

Fence Compass

Digital voltmeter with ammeter for exact fault analysis on an electric fence; illuminated LCD display, audible current indicator; ideal for use on wire, limited use on polywire, not suitable for polyrope or polytape

150901

Wireless Fence Tester (5 levels)

This is the simple and inexpensive way to check the condition of your fence without an earth stake. Powerful LED lights monitor in five stages the current voltage on your fence. With 9 V block battery

150003

Fence Tester (8 levels)

Essential for daily fence monitoring; shows the condition of your fence in eight stages (1000 to 8000 volts); complete with 1.4 m connecting cable and earth stake

150002

Fence Alert

Shows you by means of a flashing light if your fence voltage has fallen too far; visible from up to 1.5 km; two trigger levels; simply clip it on the wire, polywire or polyrope (no earthing required)

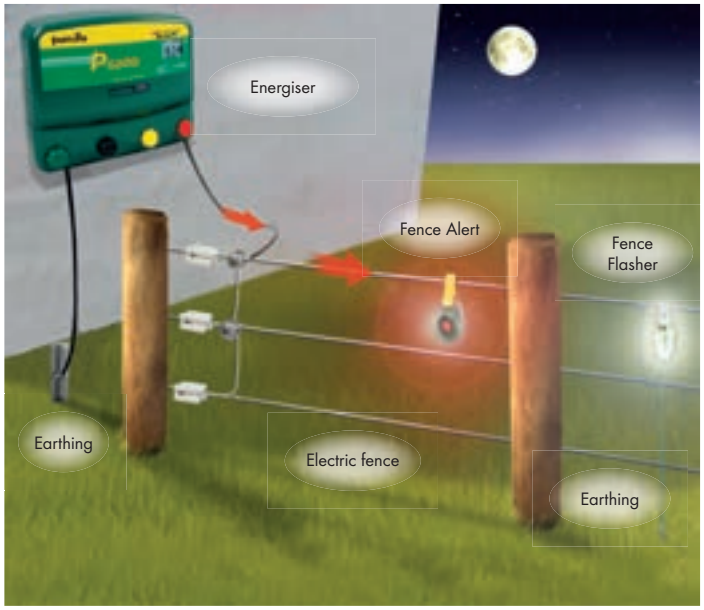
150401

Fence Flasher

The different approach to fence control; is hooked into wire, polywire or rope and is grounded; a flashing light visible at long distances indicates that the fence voltage is over 3000 V; ideal as warning light for fences to deter wild boar

150510

Ideal as warning light for fences to deter wild boar



Fence Alert

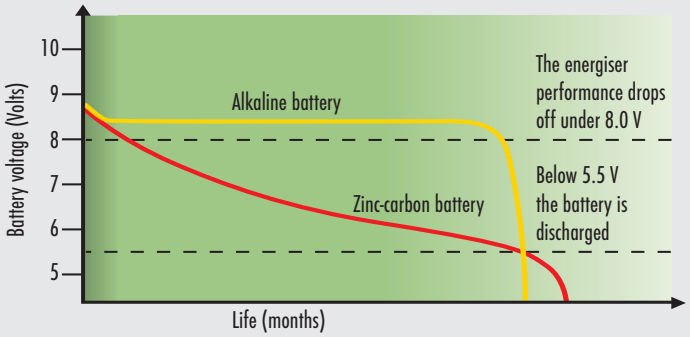
The Fence Alert is firmly installed into the electric fence, and provides an alarm by means of a bright red flashing light as soon as the voltage falls to a pre-determined level. There are two trigger levels to choose from. The Fence Alert needs no earth connection. It is powered by a built-in battery.

Fence Flasher

The Fence Flasher is firmly installed into the electric fence, and provides information on the fence voltage with every pulse at the point in question (below 3000 V it automatically goes off). In fences that are used to deter wild animals, the Fence Flasher acts as a warning, seen from a distance, which makes the animals aware of the fence in good time.

Place the Fence Alert or the Fence Flasher at a place where you pass by regularly. If there is no or too little voltage on the fence, the Fence Alert is flashing red or the Fence Flasher goes out. You can easily make sure the voltage is working well between this point and the energiser.
Install several fence alarm devices at critical points across your paddocks.

PATURA 9 V electric fence battery



The constant voltage supply of PATURA alkaline batteries provides full energiser performance until the very last day.

The correct use of 9 V batteries

All 9 V dry batteries are air-oxygen batteries, i.e. they need oxygen to produce energy.

- Before use be sure to remove the stickers which are covering the air breathers.
- If taking the battery out of service for an extended period of time, reseal the air vents and store the battery in a cool, dry place. (Thus self-discharge is prevented).

PATURA 9 V super alkaline electric fence battery

PATURA super alkaline batteries have a high constant voltage supply through-out their life. Thus it can be assured that throughout this time the energiser will always provide a constant output to the fence. In comparison with a zinc-carbon battery of the same capacity there is more energy stored. PATURA alkaline batteries contain neither mercury nor cadmium. Suitable for storage up to 3 years.

9 V Special Battery

Zinc-carbon battery for energisers

151200 9 V/55 Ah
151300 9 V/90 Ah
151400 9 V/130 Ah

9 V Super Alkaline Battery

The environmentally friendly electric fence battery with constant voltage level; for constant, optimum energiser performance

190500 9 V/55 Ah
190700 9 V/75 Ah
191000 9 V/100 Ah
191200 9 V/120 Ah
191400 9 V/160 Ah
191500 9 V/175 Ah
192000 9 V/200 Ah

Batteries and mains adaptors

Along with solar panels, rechargeable batteries are the most environmentally friendly alternative for providing the power for electric fences where there is no mains connection. All 9 V PATURA battery energisers can be powered by a 12 V rechargeable battery. Use rechargeable batteries to supply your electric fences and make a valuable contribution to the environment. Up to 95 % of the materials used in the manufacture of rechargeable batteries can be recycled, whereas the typical 9 V electric fence battery is a throw-away item.

PATURA 12 V glass mat batteries

Starter batteries for cars or trucks have decisive disadvantages if used to power energisers. They have a high self-discharge, and are only cycle proof to a small degree. i.e., they will stand for markedly fewer charge-discharge cycles. PATURA glass mat batteries for 12 V energisers and solar installations are totally maintenance-free and function independent from locations. They have a low self-discharge and are especially cycle-proof.

The correct use of 12 V batteries

Correct handling is important for extending the life of rechargeable batteries.

- Standard/special batteries are dry charged, and require to be filled with normal trade-standard battery acid before use.
- Recharge batteries in due time, and always recharge them fully.
- Never over-charge batteries (use an automatic battery charger)
- With standard/special batteries check the acid level every 4 weeks and fill up with distilled water as required.
- If taking the battery out of service for an extended period, charge the battery fully, then top up the charge after 8 weeks.

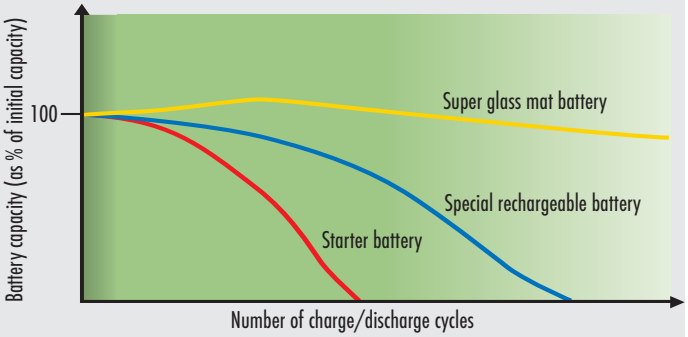
Note: all 12 V lead batteries can suffer from deep discharge due to conventional energisers, which can lead to the destruction of the battery. PATURA energisers with built-in deep discharge protection reliably prevent this.

Capacity of batteries
How long does my 12 V battery last?

- We state the capacity of all our rechargeable batteries based on 100 hours standard discharge. A battery is completely discharged after 100 hours and the extracted capacity is determined: This is referred to as capacity C100
- Calculation of battery life:
  1. Usable capacity = nominal capacity x 65 % e.g. 80 Ah x 65 % = 52 Ah
  2. Current consumption of energiser: e.g. 0.125 A
  3. Operation period (hours) = capacity/current consumption; 52 Ah/0.125 A = 416 h

Practical tips in the use of 12 V batteries

- Buy 2 small batteries (e.g. 12 V / 45 Ah) rather than one large one.
- For charging, use the 12 V – 2.7 A automatic battery charger.
- Always leave one battery attached to the charger, so that it is always charged.
- Change the battery in the energiser as soon as the battery indicator lights illuminate.
- The battery will reward you by providing a long life, and thus saving you money.



Use of the right battery will extent its life and prevent waste.

Special Wet-Cell Battery

Wet-cell battery for battery energisers and solar installations; low self-discharge, high cycle stability; delivered without battery acid, dry charged;

6 month guarantee

80 Ah (C100): l x w x h: 240 x 175 x 188 mm; weight with / without acid: 16 / 11 kg
100 Ah (C100): l x w x h: 278 x 175 x 190 mm; weight with / without acid: 20 / 15 kg
130 Ah (C100): l x w x h: 353 x 175 x 190 mm; weight with / without acid: 27 / 20 kg

133800 12 V/80 Ah
133700 12 V/100 Ah
133900 12 V/130 Ah

Standard Wet-Cell Battery

The cost-effective wet-cell battery, for use with 12 V battery energisers; delivered without battery acid, dry charged;

6 month guarantee

45 Ah (C100): l x w x h: 216 x 175 x 175 mm; weight with / without acid: 12 / 8 kg
84 Ah (C100): l x w x h: 277 x 175 x 190 mm; weight with / without acid: 18.5 / 13 kg
125 Ah (C100): l x w x h: 353 x 175 x 190 mm; weight with / without acid: 22.6 / 17.3 kg

133400 12 V/45 Ah
133500 12 V/84 Ah
133510 12 V/125 Ah

Super Glass Mat Battery

The ideal maintenance-free battery, regardless of installation postition; for 12 V energisers; with carry handles (88 Ah only); also for 9 V energisers, which can operate with 12 V as well
(32 Ah only: must be installed laying on its side)

12 month guarantee

32 Ah (C100): l x w x h: 166 x 175 x 125 mm; weight: 8.9 kg
50 Ah (C100): l x w x h: 197 x 165 x 170 mm; weight: 15.6 kg
88 Ah (C100): l x w x h: 350 x 166 x 174 mm; weight: 23.8 kg

133200 12 V/32 Ah
133100 12 V/50 Ah
133600 12 V/88 Ah

Battery acid

NEW

For all PATURA 12 V standard and special wet-cell batteries

1 liter
133001

Reference	Acid (L)
133400	approx. 2.6
133500	approx. 3.8
133510	approx. 4.7
133700	approx. 4.0
133800	approx. 3.2
133900	approx. 5.0

Mains Adaptor 1.5 A

For the operation of all 9 V and 12 V PATURA battery energisers from a 230 V socket; for 9 V energisers an additional 12 V lead set is required (Ref. 159101); universal plug for: P20, P40, P60, P250, P350; PATURA plug for: P1 - P5, P1500 - P3800, P4500, P4600, P6000; for indoor use only

150210 with PATURA plug
150220 with universal plug

Automatic Battery Charger 2.7 A

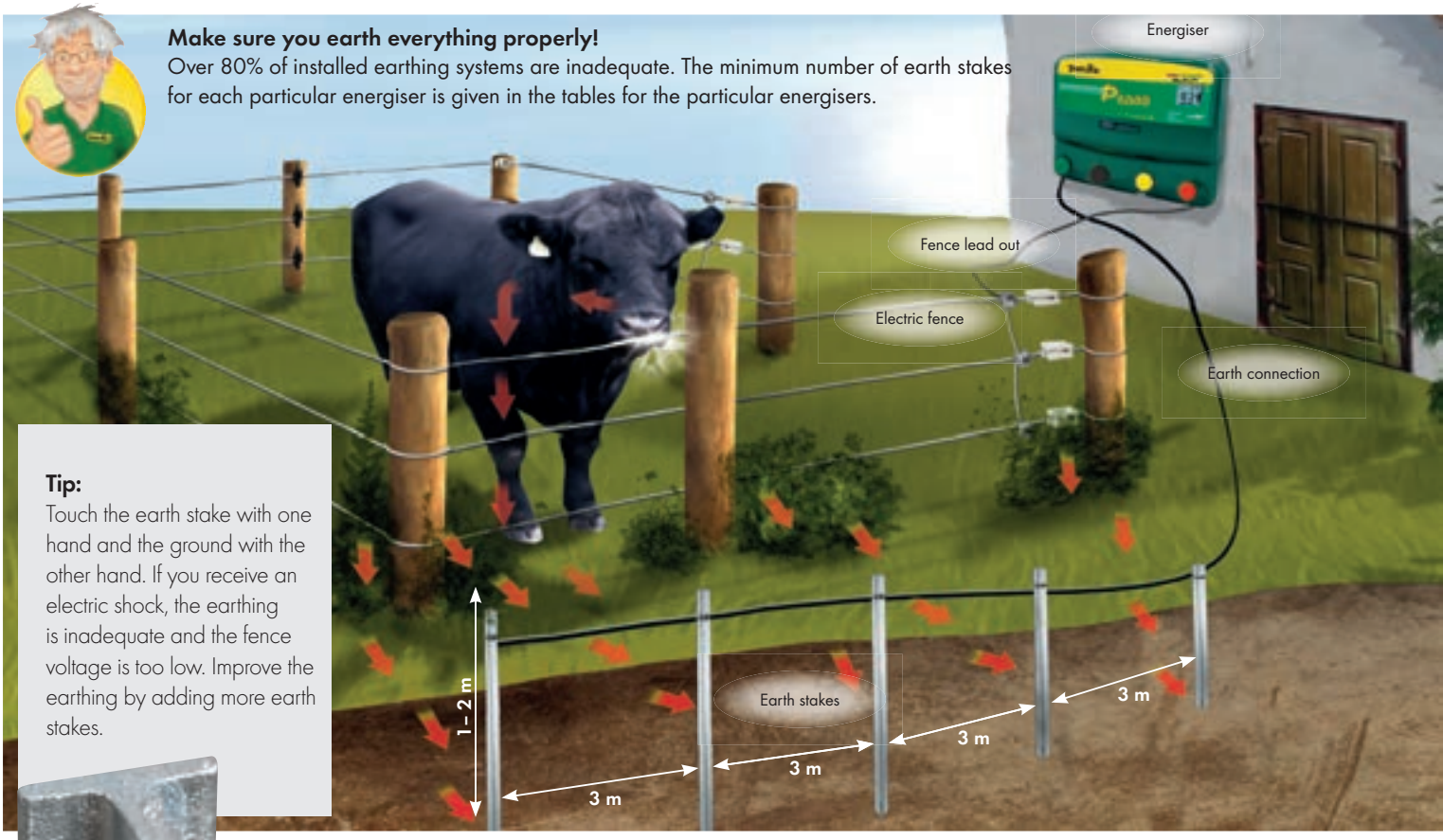
Ideal for glass mat batteries, and especially for the 25 Ah glass mat battery. Totally protective charging for your batteries; with electronic over-charging protection; also suitable for normal 12 V batteries but note longer charging time.

150201 12 V – 2.7 A

Automatic Battery Charger 7 A

For all 12 and 24 V batteries; fully-automatic battery charging with electronic over-charging protection; 7 operating modes including boost function; incl. 3-way cable set and pouch

150207 12 V/24V – 7 A



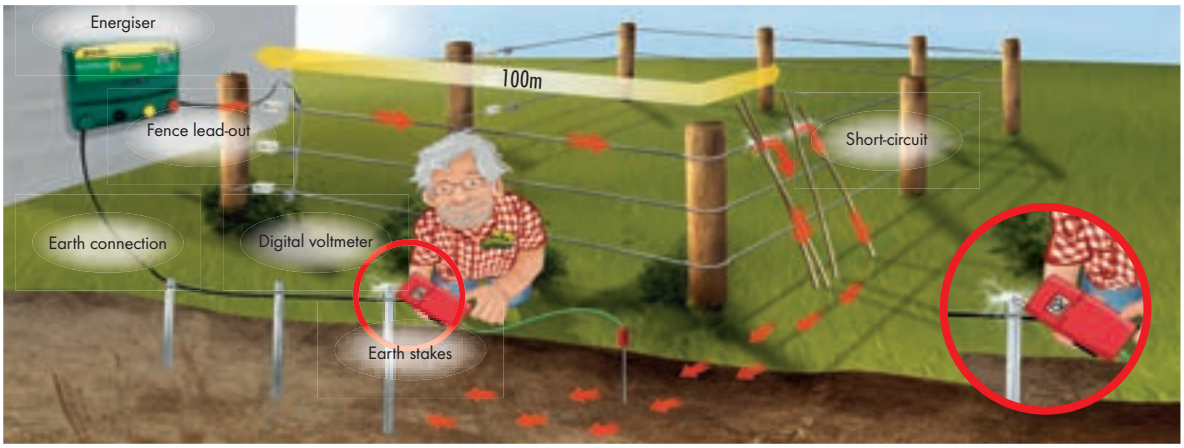
Make sure you earth everything properly!
Over 80% of installed earthing systems are inadequate. The minimum number of earth stakes for each particular energiser is given in the tables for the particular energisers.

Tip:
Touch the earth stake with one hand and the ground with the other hand. If you receive an electric shock, the earthing is inadequate and the fence voltage is too low. Improve the earthing by adding more earth stakes.

Earth stakes – the key accessory

Monitoring the earth

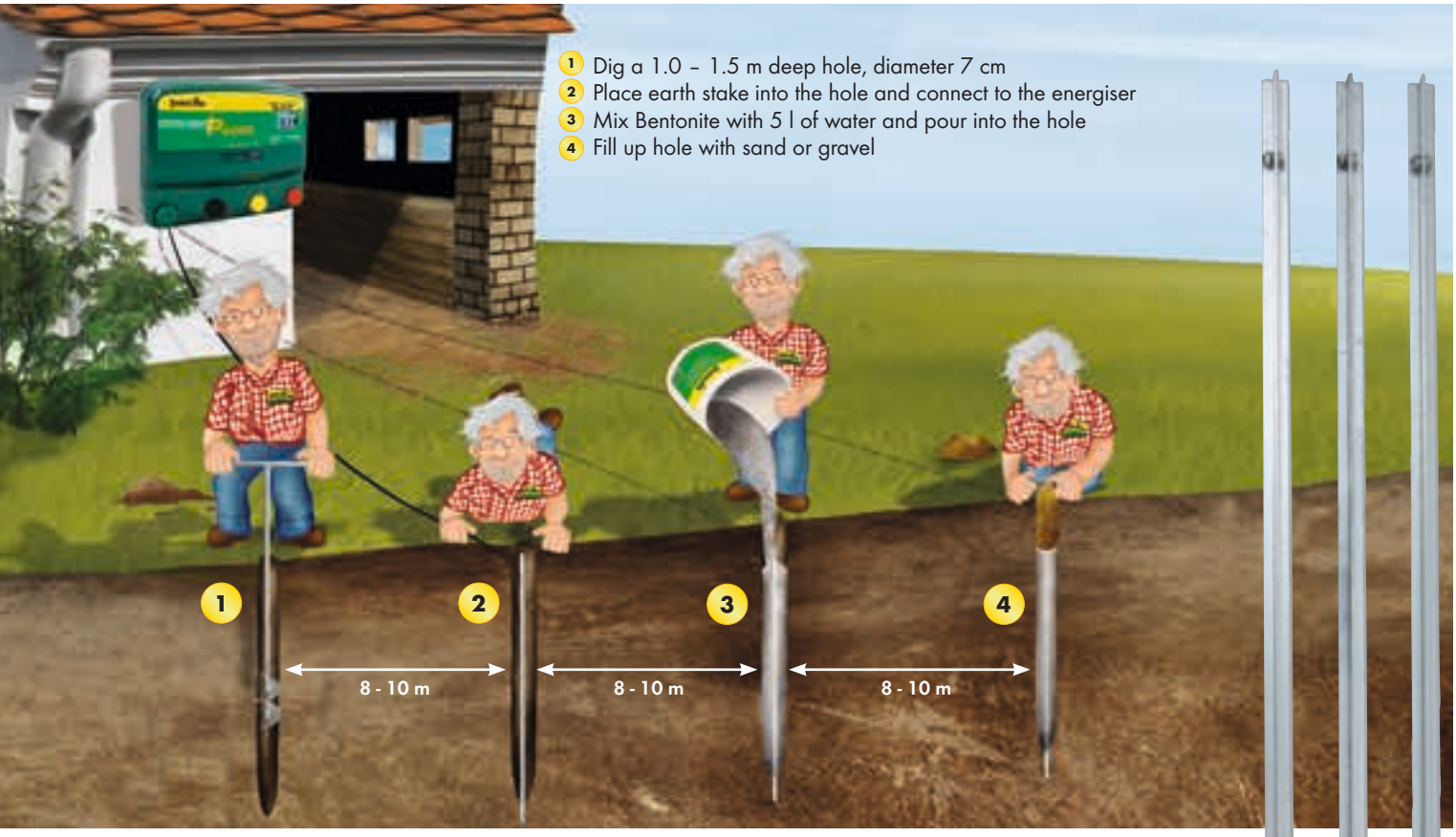
If the earth system of an energiser is inadequate, current can be measured between the earth stake and the surrounding soil or an electric shock can be felt when touching the earth system.
The earth system of an energiser should be checked at the time of installation and with permanently installed energisers at least once a year (preferably during dry soil conditions).



Regular earth monitoring especially during dry soil conditions provides high safety at the fence.

Test procedure:

- Short circuit the fence by putting steel posts into the ground approximately 100 m away from the energiser, and lay them against the fence wires. This should lower the fence voltage to 2000 volts.
- Use a digital voltmeter and insert its earth probe into the ground approx. 1 m away from the energiser's last earth stake. Touch the energiser's last earth stake with the measurement contact of the digital voltmeter.
- The digital voltmeter indicates the earth voltage when the energiser is switched on:
- 0 to 200 volts (0.2 kV to 0.6 kV display): The earthing is perfect
- 200 to 600 V (0.2 kV to 0.6 kV display): The earthing is still acceptable
- Over 600 volts: The earthing needs to be improved by adding more and, if necessary, longer earth stakes, thereby increasing the fence voltage and the safety of the fence.



Bentonite-earthing set: The solution for difficult earthing situations

Bentonite - Special Earthing Mixture

Provides perfect earthing particularly in poor earthing conditions. Stainless steel earth stake (ref. 161601) needs to be ordered separately

161606

Stainless Steel Earth Stake

INOX

The ideal, absolutely rust-free earth stake to be used together with the Bentonite-Special-Earthing-Mixture; with welded-on stainless steel connector screw; Ø 10 mm

161601 1.5 m

Screw-In Earth Stake

Hot-dip, galvanised screw-in earth anchor, for fast and easy installation and uninstallation of earth systems for portable fences; including screw-in lever and joint screw; hot-dip galvanised; length: 56 cm; Ø 7.5 cm

161710

Hot-dip galvanised with stainless steel bolt

Spare Earth Stake

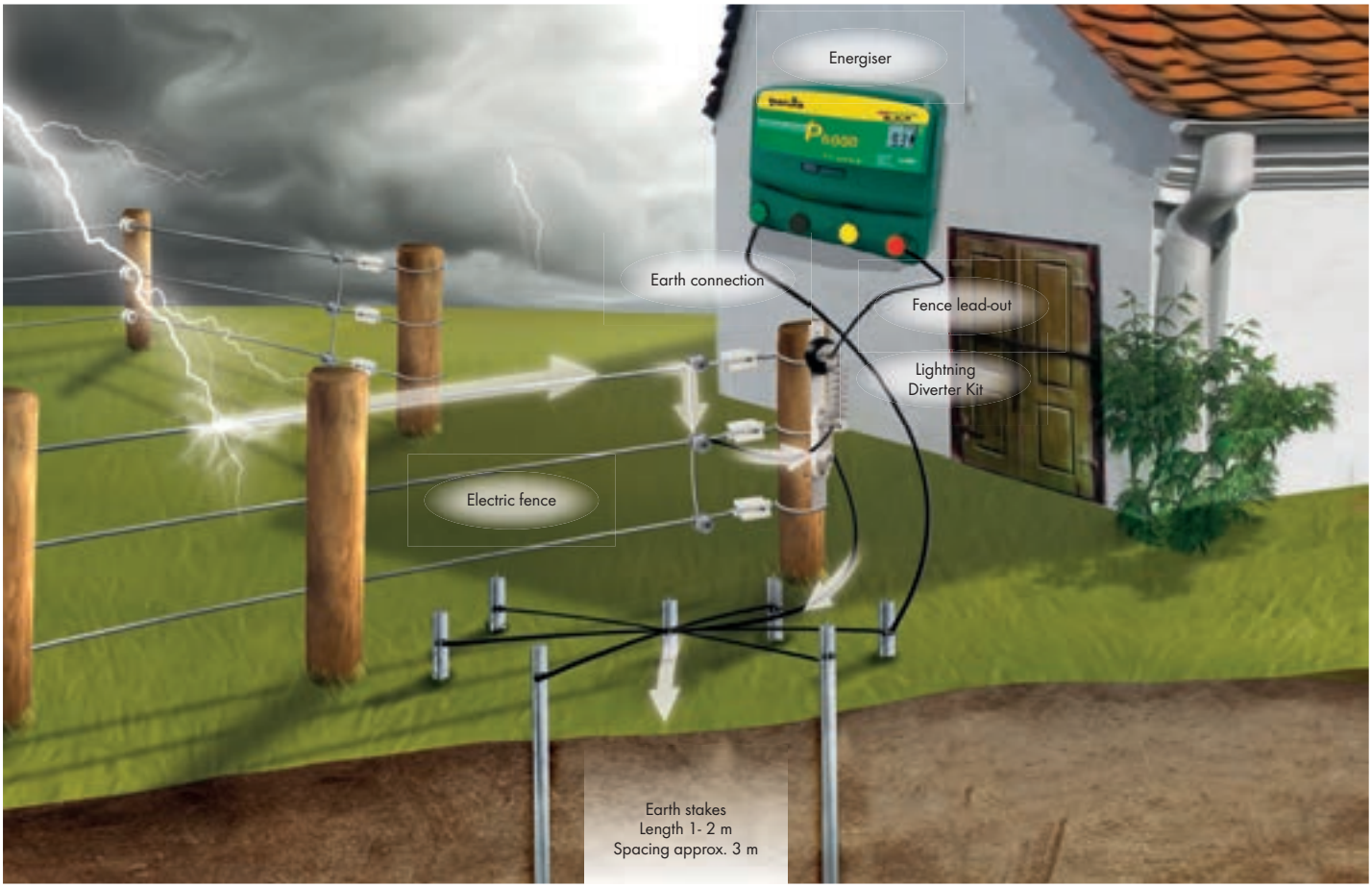
Additional earth stake especially for small battery energisers; hot-dip galvanised, 0.65 cm long, with handle for easy extraction and 3 m cable with 3 mm probe connector.

161700

Earth Stake

Galvanised T-angle-iron, with stainless steel screw for attaching the earth connection.

161800 1.0 m
161801 1.5 m
161802 2.0 m



Lightning protection systems

International standard requirements:
"Energisers for the operation of electric fence installations on pastureland may not be installed in buildings that are susceptible to fire such as barns, hay lofts and stables. To protect against lightning damage, a lightning protection system (spark gap with earthing) must be built into the fence lead-out before the introduction of that lead-out cable into the building."

The construction of the earth system for the lightning diverter is new. It has been shown that the star-shaped set of earth stakes has a considerably greater attraction to lightning than similar ones laid out in a line. Please ensure that the lightning diverter and the energiser are connected to one and the same earth system, whereby the lightning diverter is connected to the central earth stake, and the energiser to one of the outer ones.

Lightning Diverter Kit

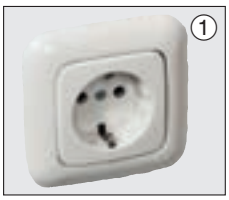
For mounting on a wall or fence post; protects your energiser by leading the lightning to the ground; required by international standards where energisers are installed indoors; order earth stakes and connecting cable separately.

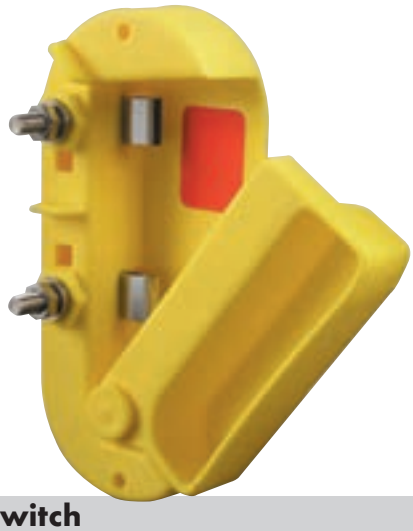
164801

Surge Protector Plug 230 V

Protects your energiser against lightning damage from a surge through the mains; simply place between the energiser and the mains socket.

164901





Cut-Out Switch

For switching the current on and off independently of the energiser, and for switching individual paddocks on or off.

160701

Two-Circuit Fence Switch

To turn on and switch between two fence systems with one switch.
Four positions are possible:
"0": both fences are turned off.
"I": Fence 1 is turned on.
"II": Fence 2 is turned on.
"I+II": both fences are turned on.

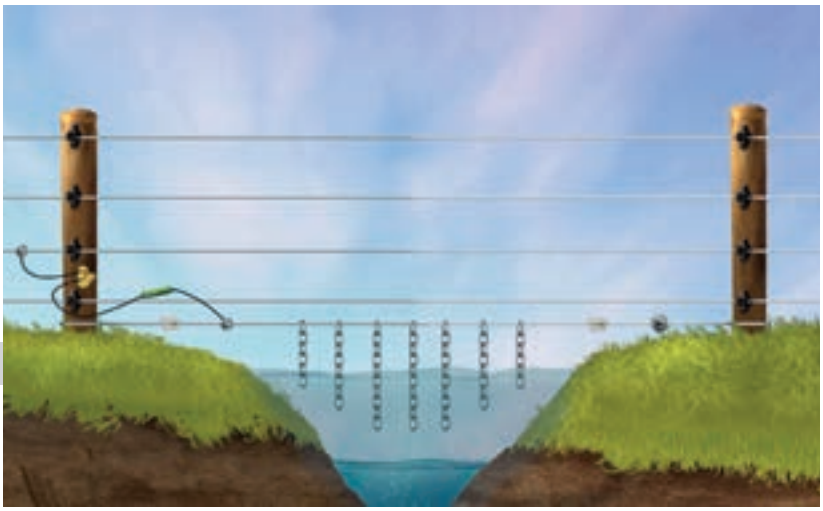
160702

NEW

Energy Limiter

For energy limitation in fence sections when crossing ditches subject to flooding

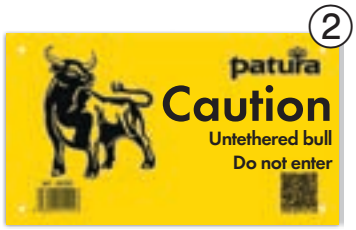
150610



① **"Do not feed the animals"**

160103 Plastic

Warning Sign - Do not feed the animals



② **"Caution: Untethered bull"**
Safety organisations recommend that this sign is displayed if there is a free-running bull in the herd

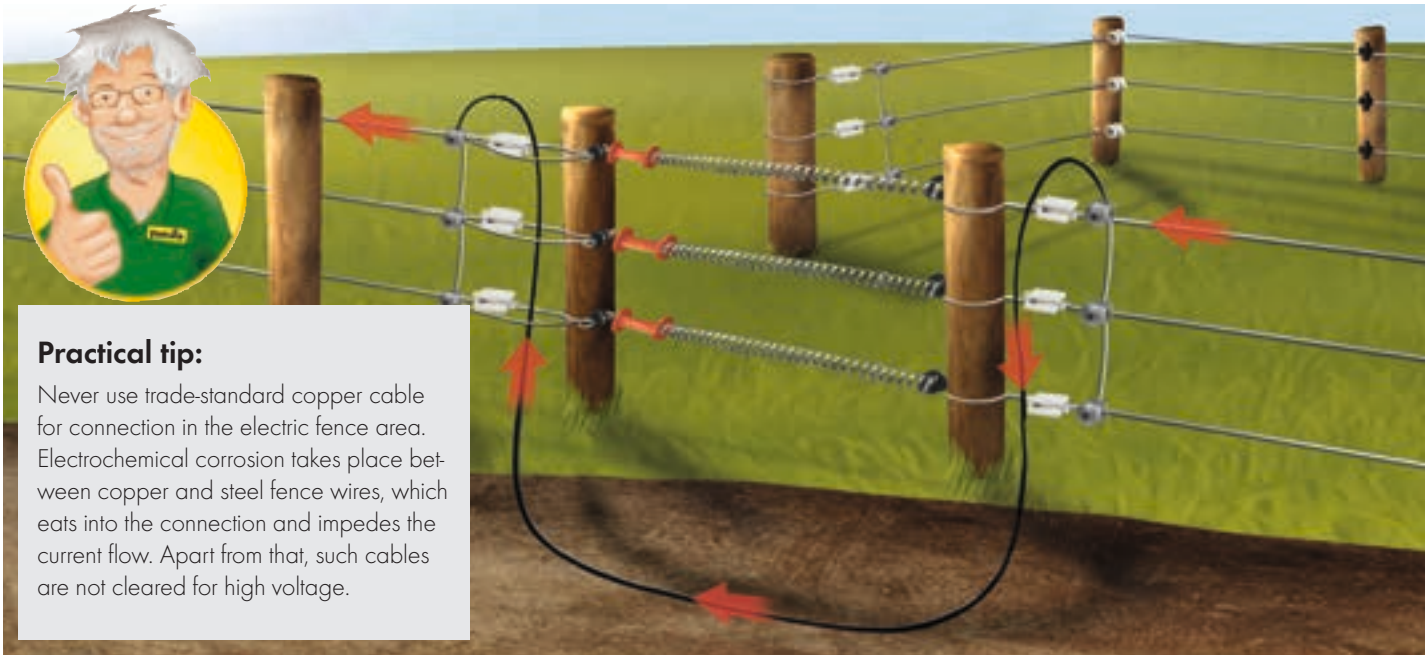
160203 Plastic

Warning Sign - Untethered bull

"Caution: Electric Fence"
International standards require that warning signs be placed at clearly visible points 100 m apart, at junctions with byways, as well as at points where the existence of an electric fence would not be expected

③ **160001 Plastic, printed on both sides**
④ **160010 Plastic, printed on both sides, 5 languages**
③ **160011 Aluminium, printed on both sides**

Warning Sign - Electric Fence



Practical tip:

Never use trade-standard copper cable for connection in the electric fence area. Electrochemical corrosion takes place between copper and steel fence wires, which eats into the connection and impedes the current flow. Apart from that, such cables are not cleared for high voltage.

Never run the current through the gate itself from one side to the other (other than for gate security using an alarm installation). The current should always be carried underground using high-voltage cable attached to either side of the gate.

Cables and screws

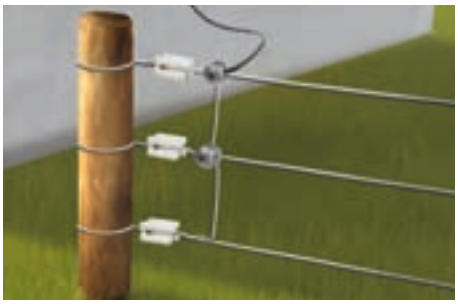
The electrical connections on an electric fence take on a special meaning. A bad connection can mean that beyond the connection there is no trace of a shock – or only a very reduced one. All connections on a permanent electric fence must be screwed. Only galvanised (preferably hot-dip galvanised) or stainless steel should be used for screws or clamps. Any rust at a connection acts as an insulator, i.e., the current flow is impeded and the fence voltage drops.

Electrical connections

Principally, with an electric fence we differentiate between two types of connection:

- **The cross-connection between two wires**
- **The in-line connection of the wire itself**

The cross-connection is purely an electrical connection, and should have no tension associated with it. All electrical cross-connections on an electric fence should be carried out by means of galvanised, non-rusting screws. Cross-connections of all fence wires should be carried out every 200 to 400 m. In-line connections of wires, polywires or polyropes should be done using knots which self-tighten under load. Figure-of-eight or reef knots have proved themselves in this respect. In the case of wires and polywire these knots provide an optimal electrical connection. This also works easily and perfectly with the joint clamps and screws for steel wire. For polywires and polyrope, rope and angle clamps or polywire joiners are used.

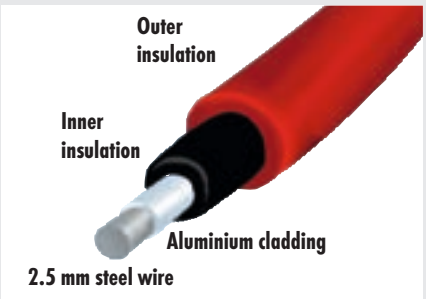


A minor investment (for 2 wire joint screws) for every fence section of 200 m ensures that all permanent electric fences have effective animal control to the very end of the fence.

TOP: Figure-eight knot,
BOTTOM: Reef knot.
The ideal solution for in-line connection of wires and polywires

Underground cable and lead-out cable

PATURA high-voltage electric fence cable is double insulated and high voltage proof to over 25,000 volts. It can be used for above- and underground lead-outs, for the connection of earth stakes and for carrying current past gates. For distances up to 50 m the 1.6 mm diameter version is sufficient. For distances over 50 m the strong, high conductivity 2.5 mm cable should be used.



The PATURA high-voltage cable with aluminium coating provides optimum conductivity due to the high aluminium content.

High Voltage Cable 1.6 mm

High voltage-proof, double insulated, single-core cable with 1.6 mm steel core; for fence and earth lead-outs up to 50 m, or for by-passing gates; resistance 0.1 ohms/m.
High voltage-proof, double insulated, single-core cable with 2.5 mm steel core; for fence and earth lead-outs over 50 m; resistance 0.035 ohms/m.

160910 10 m roll
160925 25 m roll
160950 50 m roll
160960 100 m roll

High Voltage Cable 2.5 mm

High voltage-proof, double insulated, single-core cable with 2.5 mm steel core; for fence and earth lead-outs over 50 m; resistance 0.035 ohms/m.

161050 50 m roll
161060 100 m roll
161070 200 m roll

Principally, for the PATURA P8000 Tornado Power, we recommend the use of high voltage aluminum cable 2.7 mm

Recommendation for high voltage cable		
	Diameter - Fence lead-out cable	
	Energiser capacity under 5 joules	Energiser capacity over 5 joules
0 - 50 m	1.6 mm	2.7 mm Aluminium
50 m - 200 m	2.5 mm	2.7 mm Aluminium
over 200 m	2.7 mm Aluminium	2.7 mm Aluminium

High Voltage Cable Aluminium 2.7 mm

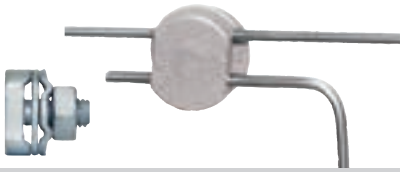
Aluminium shrouded
High voltage-proof, double insulated, single-core cable with 2.5 mm steel core; for fence and earth lead-outs over 50 m; resistance 0.035 ohms/m. High voltage-proof, double insulated, single-core cable with aluminium shrouded 2.5 mm steel core; for low-loss fence and earth lead-outs over 50 m; resistance 0.011 ohms/m.

161160 100 m roll

Joint Clamp

New coating for increased corrosion resistance; for electrical cross-connection of several wires or for connecting the high-voltage cable with the fence.

160605 (qty 5)
160625 (qty 25)



Joint Screw

New coating for increased corrosion resistance; for electrical cross-connection of several wires or for connecting the high-voltage cable with the fence.

169605 (qty 5)
169625 (qty 25)

Connector for High Voltage Cable

For high voltage, waterproof connection of electric fence High Voltage Cable 1.6 - 2.7 mm

160810

Angle Clamp

New coating for increased corrosion resistance; ideal for connecting, clamping and for electrical cross-connection of rope and wire.

169505 (qty 5)
169525 (qty 25)

Angle Clamp

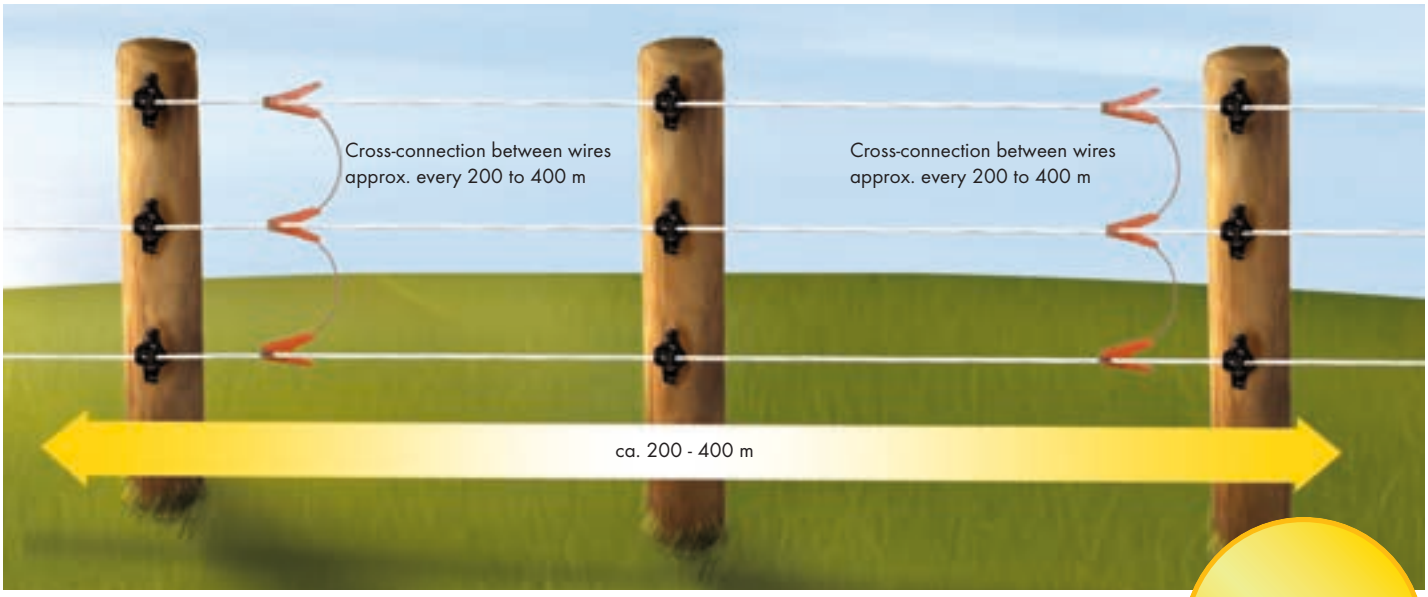
New coating for increased corrosion resistance; ideal for connecting, clamping and for electrical cross-connection of rope and wire.

with wing nut
169705 (qty 5)
169725 (qty 25)

Rope Clamp

Stainless steel; ideal for the connection, clamping and for the electrical cross-connection of polyrope.

160405 (qty 5)



On electric fences all wires should be interconnected crosswise at regular intervals of approx. 200 - 400 m. Ideal positions for these connections are at the beginning and the end of the fence and at corners.
Tip: all connection cables should be positioned right next to a post to prevent the wires from sagging.

Prevent arcing on the electric fence

Connection cable

The electrical connections on an electric fence take on a special meaning. A bad connection can mean that there is no trace of a shock beyond the connection – or only a very reduced one. All connections on an electric fence must have tight contact. Only stainless steel clamps should be used. Any rust at a connection acts as an insulator, that is, the current flow is impeded and the fence voltage drops.

Electrical connections on temporary fences

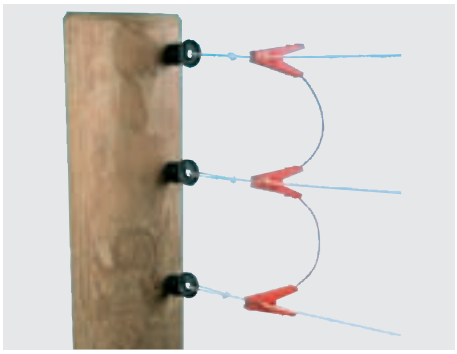
Principally, with an electric fence we differentiate between two types of connection:

- **The cross-connection between two wires**
- **The in-line connection of the wire itself**

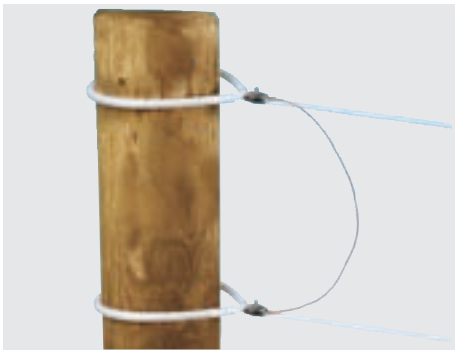
The cross-connection is purely an electrical connection, and should have no tension associated with it. On temporary fences all electrical crossconnections are carried out using fence connecting cable with spring-loaded stainless steel (SS) clips or connector plates. Cross-connections of all fence wires should be carried out every 200 to 400 m. Special connectors are available for in-line connections of polywire, polyrope or polytape. You will be able to find them on the following pages.

Regardless whether polywire, polyrope or polytape - PATURA always offers the suitable connecting cable

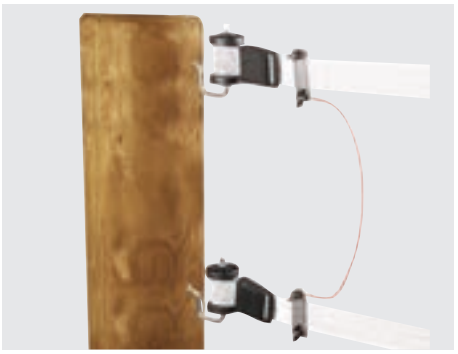
For each fence wire material we offer the proper connection technology. All connections must be implemented with high contact pressure. This is ensured with springs or clamping screws. The use of stainless steel PATURA cables ensures permanent conductive connections.



Fence connecting cable with spring-loaded clips (SS) provides optimum cross-connections for temporary polywire fences.



Fence connecting cable - polyrope - with (SS) polyrope clamp provides optimum cross-connections for temporary polyrope fences.



Fence connecting cable - polytape - with (SS) connector plates provides optimum cross-connections for temporary polytape fences.

INOX

Fence Connecting Cable

with insulated spring clips and stainless steel contacts; quick wire connection for temporary multi-wire fences

2-wire, (qty 2)
101102

3-wire, (qty 2)
101202

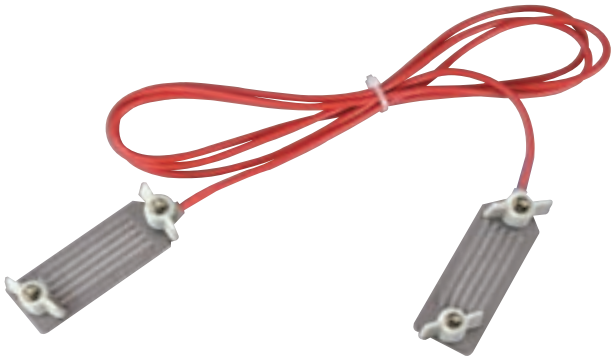
4-wire, (qty 1)
101301

INOX

Fence Connecting Cable for Rope

with 2 stainless steel polyrope clamps; for ropes up to 6 mm; for establishing cross-connections on polyrope fences

101401



INOX

Fence Connecting Cable Polytape

Steel
for tapes up to 40 mm; rapid cross-connection for multi-wire polytape fences

170401

Fence Connecting Cable Polytape

Plastic
for tapes up to 40 mm

101502 (qty 2)

INOX

Earth Stake Connecting Cable

With insulated spring clips and stainless steel contacts; quick and easy detachable connection with earth stakes for battery energisers; length: 3.0 m

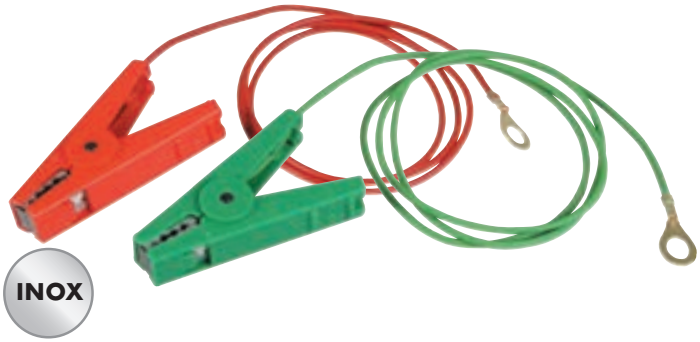
160990

INOX

Spring Clip

Spare spring clips suitable for all PATURA connecting cables, stainless steel

919001	**red**	**(qty 1)**
919002	**black**	**(qty 1)**
919003	**green**	**(qty 1)**



Fence and Earth Lead Set with Eyelet

Insulated spring clips (red = fence / green = earth) with stainless steel contacts and 8.0 mm eyelets; for PATURA Energisers P15, P25, P35, P50, P70, P100 - P300, P250 / P350, P1000 - P4000

2 Lead Connectors, red and green
100901

Fence Lead Connector, 8 mm Eyelet, red
100101

Earth Lead Connector, 8 mm Eyelet, green
100501

Fence and Earth Lead Set with Probes

Insulated spring clips (red = fence / green = earth) with stainless steel contacts and 3.0 mm probes; for PATURA energisers P20, P40, P60, P1 - P5, P1500 - P3800, P4500/P4600 and P6000

2 Lead Connectors, red and green
101001

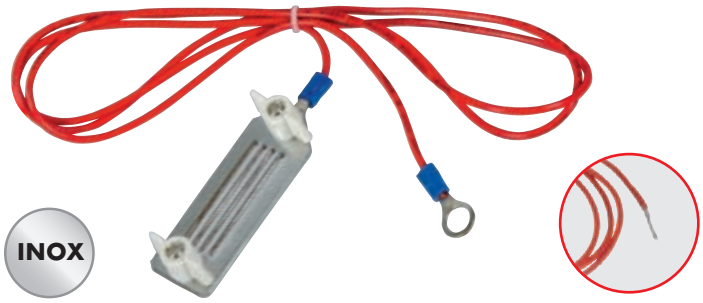
Fence Lead Connector, 3 mm Probe, red
100301

Earth Lead Connector, 3 mm Probe, green
100601

Fence Lead Connector for Rope

with stainless steel polyrope clamps; for ropes up to 6 mm; for connecting the energiser to polyrope fences

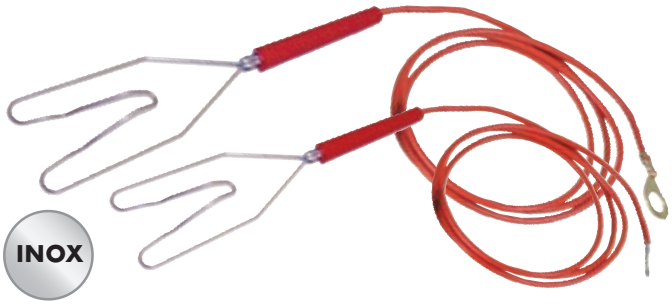
100701 8 mm eyelet
100801 3 mm probe



Fence Lead Connector Polytape

Stainless steel clamping plate
for tapes up to 40 mm; for connecting the energiser to polytape fences

170501 8 mm eyelet
170601 3 mm probe



Fence Lead Connector with Heart Clip

Chrome-plated universal heart-shaped clip suitable for wire, polywire, rope and tape up to 40 mm; 8 mm eyelet or 3 mm probe
Eyelet: for PATURA Energisers P15, P25, P35, P50, P70, P100 - P300, P250 / P350, P1000 - P4000
Probe: for PATURA Energisers P20, P40, P60, P1 – P5, P1500; P3800; P4500/P4600 and P6000

100201 8 mm eyelet
100211 3 mm probe

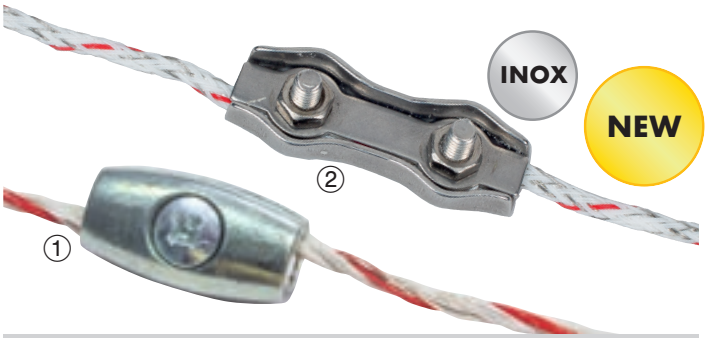
Polytape Buckle

Plastic
Easily adjustable start and end connection for polytapes, allows rapid retensioning of the tapes, not suitable for electrical connections!

12.5 mm, (qty 5)
103605

20 mm, (qty 5)
103705

40 mm, (qty 3)
103803

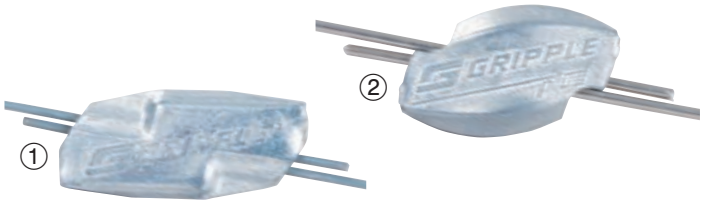


Polywire Joiner

for secure connection of all electric fence polywires

① **Single (galvanised)**
For polywire up to 2,5 mm
160505 (qty 5)
160510 (qty 10)

② **Double (stainless steel)**
For polywire up to 3,5 mm
164705 (qty 5)



Joiner for steel wire

① **1,6 mm**
Suitable for 1.40 – 2.20 mm steel wire
190205 (qty 5)
190220 (qty 20)

② **2,5 mm**
Suitable for 2.00 – 3.25 mm steel wire and for HippoWire
190105 (qty 5)
190120 (qty 20)

Rope Joiner

For polyropes up to 6 mm

galvanised
103205 (qty 5)
103210 (qty 10)

stainless steel
103903 (qty 3)
103910 (qty 10)

Tape Joiner

stainless steel
Good connection, no corrosion, optimum current flow

10 - 12.5 mm, (qty 5)
103305

20 mm, (qty 5)
103405

30 – 40 mm, (qty 5)
103505

12 V Lead Set for 9 V battery

For connecting all PATURA 9 V dry-cell battery energiser to 12 V battery or mains adaptor (to connect to mains adaptor remove spring clips).

159101

12 V Lead Set

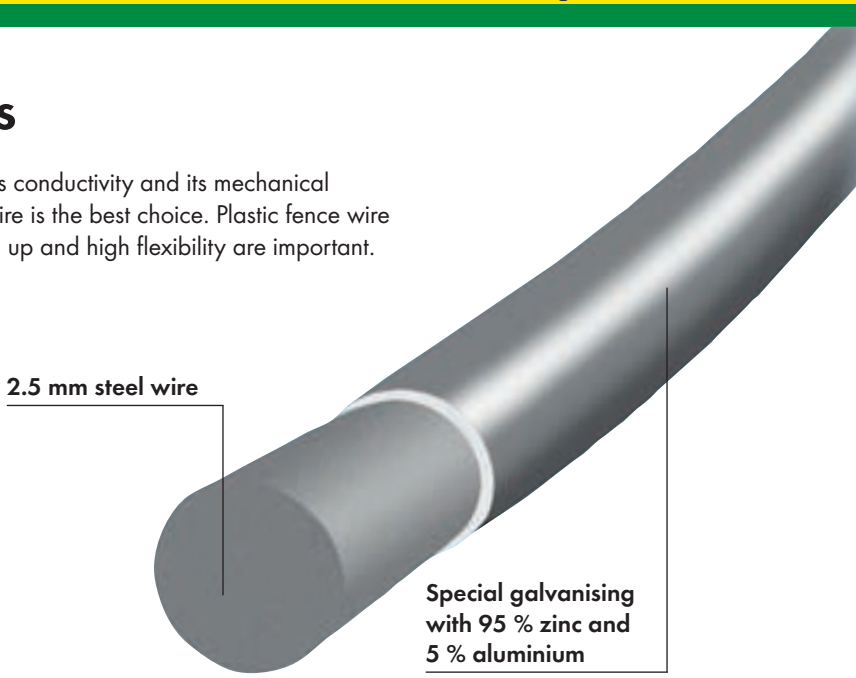
for connecting following PATURA multi-function energiser to 12 V batteries:
P1 - P5; P1500 - P6000

9187225

Fencing Material

The demands on fence wires

Important criteria in the assessment of an electric fence wire are its conductivity and its mechanical strength. For permanent fences a solid, heavily galvanised steel wire is the best choice. Plastic fence wire is used principally for temporary fences. Simple lightweight rolling up and high flexibility are important.



PATURA Tornado steel wire has a special thick galvanised coating with a 5 % aluminium content giving a particularly long life.

PATURA Tornado steel wire: with zinc/aluminium corrosion protection

PATURA Tornado steel wire with a special thick galvanised coating of 95 % zinc and 5 % aluminium, has a service life which is 9 times that of normal commercially available galvanised wire, and 3 times as long as normal thick-galvanised wire. The retention of the zinc coating on the wire is markedly improved by the combination with the aluminium.

Now it dawns on you

Do you know the expected voltage when an animal touches a fence at 100 m, 1 km or 3 km along a single-wire fence, if the voltage at the start of the fence is 8000 volts? In practice, PATURA recommends fence voltages of 3000 - 4000 volts.

	Fence Voltage		
	after 100 m	after 1 km	after 3 km
Tornado Steel Wire 2.5 mm	7900 V	7500 V	6600 V
HippoWire	7900 V	7500 V	6600 V

Due to the extremely good conductivity very long fences with very high fence voltages are possible. The protection level of the fences is correspondingly high.

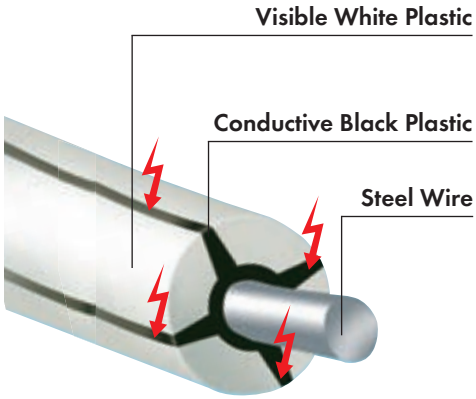
Life of corrosion-protected wires

Wire Ø mm	Type of corrosion protection	Thickness of zinc coating g/m²	Life in years			Ratio of respective lives
			Emision free air	Polluted air	Heavily polluted air	
2.5	Normal galvanised	90	4.5	2.5	1.5	1
2.5	Thick galvanised	300	13	7	4	approx. 3 times that of normal galvanised
2.5	Zinc-aluminium galvanised	300	39	21	12	approx. 9 times that of normal galvanised

PATURA HippoWire: the better alternative

The best visibility, optimum conductivity, minimal risk of injury and a long life – the PATURA HippoWire meets all those demands with 2.5 mm steel wire coated in conductive plastic. The steel wire core ensures the best conductivity, the thick polyethylene coating offers good visibility and the lowest risk of injury, while the 4 conductive carbon strips ensure that the current is best passed to the animal.

Unique: 4 conductors for optimum safety



Wiring

	Ref.	Colour	No. of galv. steel conductors	Ø of galv. steel conductors (mm)	Resistance (ohms/m)	*Max suggested single wire length	Ultimate tensile stregth (kg)
2.5 mm Steel Wire	190000/109300	-	1	2.5	0.035	30 km	650
1.6 mm Steel Wire	191600/191610	-	1	1.6	0.07	15 km	240
HippoWire	190400/190410	white/brown	1	2.5	0.035	30 km	650

*The maximum recommended lengths can be doubled for two-wire fences with cross-connections and tripled for three wire fences.

Steel Wire Ø 2.5 mm

Thickly galvanised steel wire, long life and very high tensile strength

109300 25 kg coil = approx. 625 m

Tornado Steel Wire Ø 2.5 mm

Steel wire thickly coated with zinc-aluminium alloy, three times the corrosion resistance and a long life in comparison with normal thick galvanised wire, very high tensile strength

190000 25 kg coil = approx. 625 m

Tornado Steel Wire Ø 1.6 mm

Steel wire thickly coated with zinc-aluminium alloy

191600 5 kg coil = approx. 315 m
191610 25 kg coil = approx. 1,575 m

HippoWire

with conducting plastic coated 2.5 mm steel wire, Ø approx. 7 mm, ideal for horsewires

190400 304 m coil, white
190410 304 m coil, brown

Handling of fence wires

Fence wires specially made of steel wire are the ideal solution for installing long-lasting electric fences. The correct handling of the wire including tightening, connecting, cutting and unreeling requires special knowledge and special tools and accessories. For this purpose, PATURA offers an extensive accessories program.

PATURA rotating wire tensioner: the clever way to tighten wires

PATURA's rotating wire tensioner enables you to easily tighten wires without cutting them. The tensioner is inserted in the wire at any place on the fence, the wire tensioner handle is attached and the tensioner is turned around its own axle until the correct fence tension is reached. Then the cotter pin is installed and the wire tensioner handle is removed. If necessary, the wire can be retightened and/or relaxed, at any time. Rotating wire tensioners must be installed in every line section of the fence, max. every 500 - 600 m.

1. Place the rotating wire tensioner on the wire, attach the wire tensioner handle

2. Turn the wire tensioner handle until the correct fence tension is reached

3. Hook the wire tensioner handle in the wire, install the cotter pin and remove the wire tensioner handle

4. Due to the light weight, the wire tensioner hangs lightly in the wire

PATURA tension spring: always keeps the tension on the wire

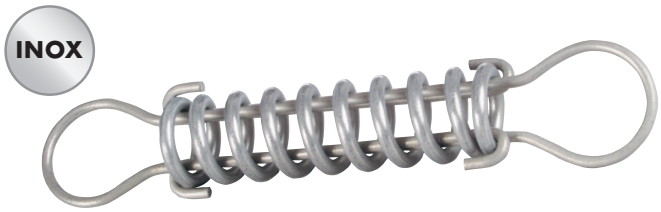
PATURA offers the suitable spring for all steel wires. The spring ensures that the wire is always optimally tightened under all operating conditions. At high temperatures it prevents sagging of the wires, at low temperatures it takes the load off of the corner posts. The spring is pretightened to the primary tension with the rotating wire tensioner (see below) to approx. 90 - 120 kg for 2.5 mm steel wire. The spring is made of stainless steel for highest life span and best current transmission. Tension springs should be installed onto the wire every 200 - 600 m depending on the course of the fence (installation see pictures).

1. Thread the wire through the tug link of the tension spring

2. Make half a reef knot

3. Twist the excess wire ends around the fence wire

4. Repeat the fastening on the opposite side and pre-tighten the spring with the rotating wire tensioner



Tension Spring - stainless steel

Stainless steel, for 1.6 mm steel wire
The inclusion of this spring takes the load out of the wire and the corner posts, it keeps the wire taut during temperature changes: makes the fence resilient

162600

Tension Spring - stainless steel

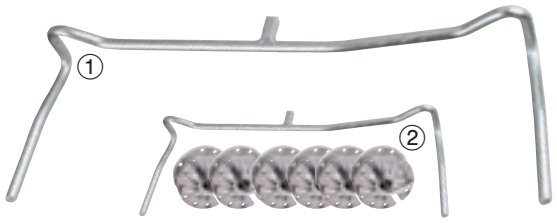
Stainless steel, for 2.5 mm steel wire
Rugged design for 2.5 mm steel wire and HippoWire, the inclusion of this spring takes the load out of the wire and the corner posts, it keeps the wire taut during temperature changes: makes the fence resilient

162700

Rotating Tensioner

Aluminium, allows rapid tensioning and de-tensioning of wires and rope without cutting them

164303 (qty 3)
164325 (qty 25)



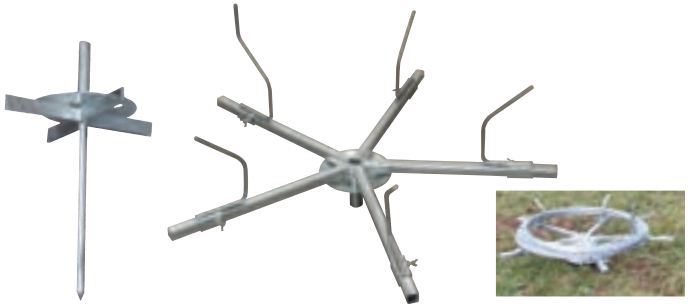
Tensioner Handle

Galvanised, for operating the tensioner, for operating instructions see left page

① **644000 1 tensioner handle**

② **Rotating Tensioner - Starter Pack**
6 rotating tensioners + 1 tensioner handle

644001 (qty 1)



Wire Dispenser

For the simple unreeling of steel wire, HippoWire and plain steel wire, with spike foot for ground insertion

152800

Safety Cover for tension spring

Protects horses tail hair to get caught up in the tension spring (Ref. 162700)

162903 (qty 3)

Electric Fencing Pliers - Standard

With hammer and wire cutter

152201

Electric Fencing Pliers - Professional

Rugged, insulated pliers for erection of electric fences, heavy model with hammer, parallel clamping jaws and special wire cutter for steel wire

522001

Wire Strainer

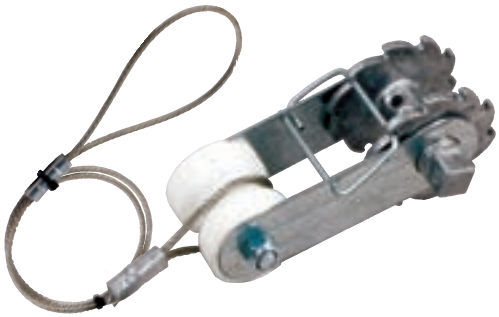
To tighten wires

164600 (qty 1)
164602 (qty 10)

Wire Strainer with Insulator

To tighten live wires

164610 (qty 1)
164612 (qty 10)



Wire Strainer with Insulator and Rope

To easily tighten and fasten live wires to tension posts up to 20 cm diameter, no special knots need to be tied into the wire

164621 (qty 2)

Tension Handle for wire strainer

For easy handling of wire strainers

164630 (qty 1)

Joiner for steel wire 1.6 mm

Suitable for 1.40 – 2.20 mm steel wire

190205 (qty 5)
190220 (qty 20)

Joiner for steel wire 2.5 mm

Suitable for 2.00 – 3.25 mm steel wire and for HippoWire

190105 (qty 5)
190120 (qty 20)

Twist-Tight Tensioner

Rotating plastic, black, allows to tension the wire even when it is under voltage

164506 (qty 6)

Gripple Torq Tool

For tensioning wire using steel wire joiners 1.6 and 2.5 mm, integral tension gauge

190250 (qty 1)

Plain Steel Wire

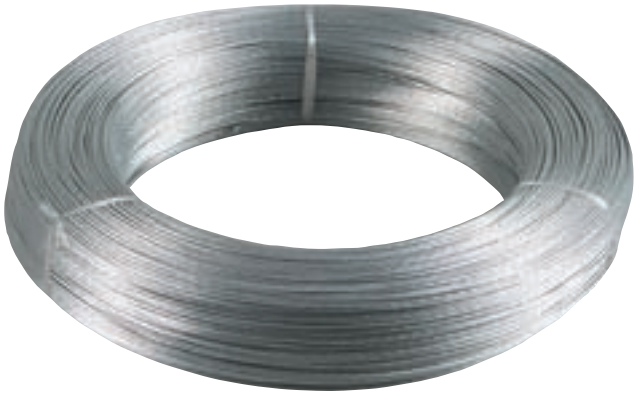
109000: Ø 1.6 mm, galvanised, 5 kg = approx. 280 m
109100: Ø 1.8 mm, galvanised, 5 kg = approx. 250 m

109000
109100

Aluminium Wire

Very high conductivity, 4 times higher than (normal) plain steel wire, lightweight
Tip: tighten with max. 20 kg

191700 1.8 mm diameter, 400 m spool
191800 2.0 mm diameter, 400 m spool



Stranded Wire

Galvanised stranded metal, Ø 1.5 mm

108100 200 m coil
108200 500 m coil

Max. **3000 m** long

107600 107500

Special Plastic Wire

Transparent, with nylon core and 2 galvanised iron wires

500 m roll
107600

1000 m roll
107500

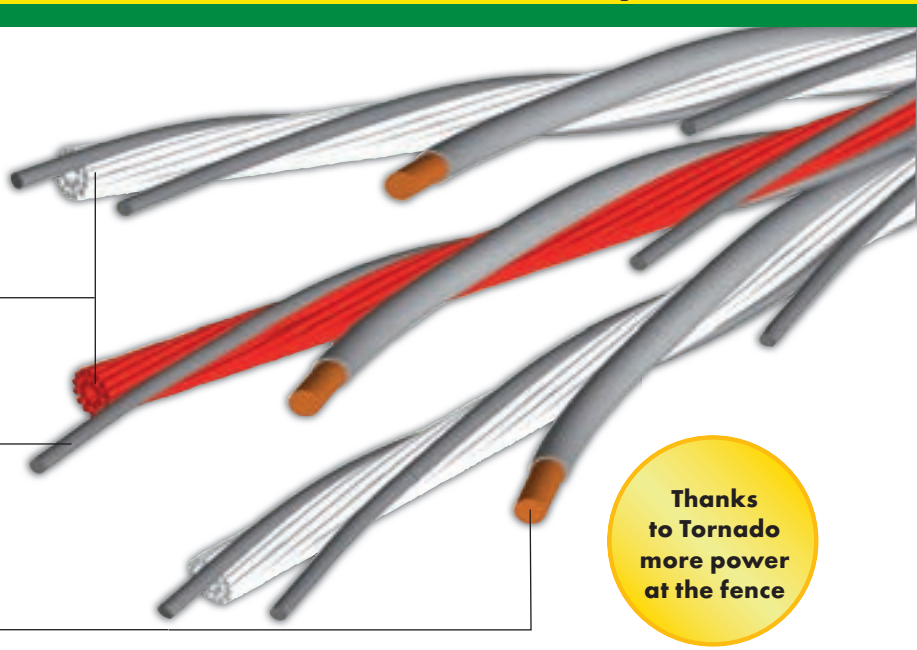
Wiring

	Ref.	Colour	No. of galv. steel conductors	Ø of galv. steel conductors (mm)	Resistance (ohms/m)	*Max suggested single wire length	Ultimate tensile stregth (kg)
1.6 mm Steel Wire	109000	-	1	1,6	0,07	15 km	150
1.8 mm Steel Wire	109100	-	1	1,8	0,05	20 km	200
Aluminium Wire 1.8 mm	191700	-	1(Alu)	1,8(Alu)	0,015	70 km	75
Aluminium Wire 2.0 mm	191800	-	1(Alu)	2,0(Alu)	0,010	100 km	90
Stranded WireSpecial	108100/108200	-	7	0,5	0,12	8 km	150
Plastic Wire	107500/107600	transparent	2	0,5	0,35	3 km	60

*The maximum recommended lengths can be doubled for two-wire fences with cross-connections and tripled for three wire fences.

Perfection in detail:

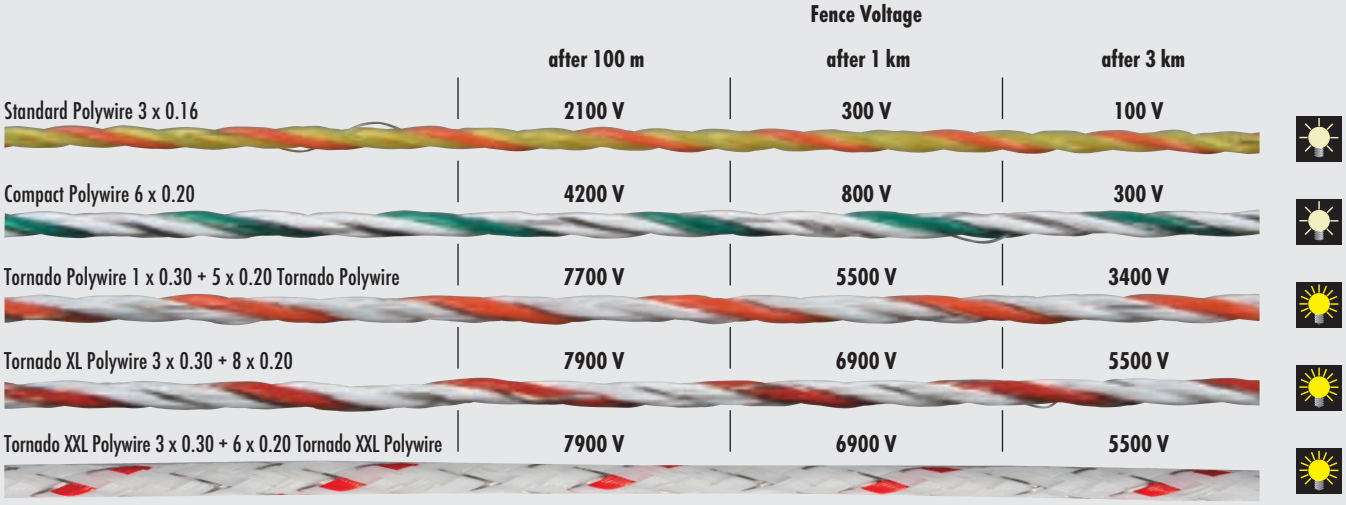
Configuration of the Tornado XL polywire



Thanks to Tornado more power at the fence

Now it dawns on you

Do you know the expected voltage when an animal touches a fence at 100 m, 1 km or 3 km along a single-wire fence, if the voltage at the start of the fence is 8000 volts? In practice, PATURA recommends fence voltages of 3000 – 4000 volts.



PATURA Tornado: maximum conductivity for the highest security

As a speciality, PATURA offers the combined processing of stainless steel and copper strands. Stainless steel strands are extremely durable, copper strands have very high conductivity. Only through this combination can a broken copper strand again be conducting the current through a stronger stainless steel one. Unlike conventional polywires, high durability and high conductivity are combined in one product.

Reduce the specified fence length to half where there is vegetation and to ¼ where there is heavy vegetation

Polywire

	Ref.	Colour	Number of plastic fibres	Ø plastic fibres (mm)	Number of stainless steel strands	Ø stainless steel strands (mm)	Number of copper strands (tinned)	Ø copper strands (mm)	Resistance (ohms/m)	Max. suggested single wire length	Ultimate tensile strength (kg)	
Standard Polywire	180000	yellow-orange	18	0.30	3	0.16	-	-	14	100 m	50	With a fence length of over 400 m, use only PATURA Tornado products
Compact Polywire	180100/180200	white-green	30	0.30	6	0.20	-	-	4.5	250 m	65	
Compact PLUS Polywire	180300	white-green	24	0.3	6	0,20	-	-	4.5	250 m	100	
Tornado Polywire	180501-180701	white-orange	24	0.38	5	0.20	1	0.30	0.23	5 km	75	
Tornado XL Polywire	181001-181201	white-red	24	0.38	8	0.20	3	0.30	0.08	13 km	85	
Tornado XXL Polywire	181500-181700	white-red	24	0.30	6	0.20	3	0.30	0.08	13 km	110	

Ideal where there is vegetation

Max. **13000 m** long

181001
181101 181201

Tornado XL Polywire

PATURA UV-Warranty 5 years
Now 25 % better twisting
White-red, with 3 copper strands Ø 0.30 mm and 8 stainless steel strands Ø 0.20 mm

200 m roll
181001

400 m roll
181101

1000 m roll
181201

Max. **13000 m** long

181500
181600 181700

Tornado XXL Polywire

PATURA UV-Warranty 5 years
Braided polywire (for maximum durability)
White-red, with 3 copper strands Ø 0.30 mm and 6 stainless steel strands Ø 0.20 mm

200 m roll
181500

400 m roll
181600

1000 m roll
181700

Max. **100 m** long

Standard Polywire

Yellow-orange, with 3 stainless steel strands Ø 0.16 mm

250 m roll
180000

Max. **250 m** long

180100
180200 180300

Compact Polywire

PATURA UV-Warranty 3 years
White-green, with 6 stainless steel strands Ø 0.20 mm

200 m roll
180100

400 m roll
180200

500 m roll, Compact PLUS braided / braided rope
180300

Max. **5000 m** long

180501
180511
180601 180701

Tornado Polywire

PATURA UV-Warranty 5 years
White-orange, with 1 copper strand Ø 0.30 mm and 5 stainless steel strands Ø 0.20 mm

200 m roll, white-orange
180501

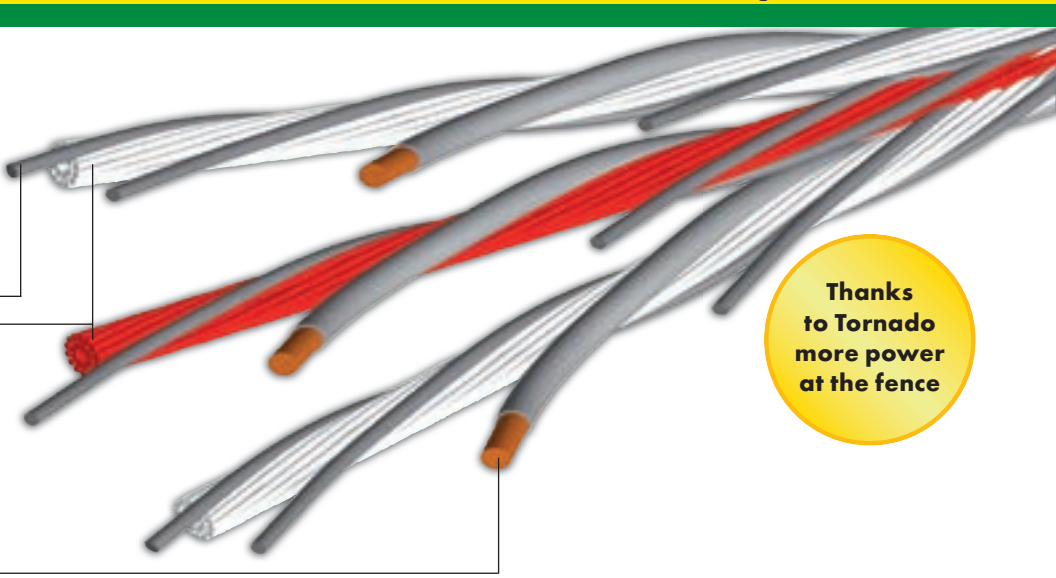
200 m roll, brown
180511

400 m roll, white-orange
180601

1000 m roll, white-orange
180701

Perfection in detail:

Configuration of the Tornado XL polywire



Stainless steel strands
for the highest breaking strength

Polyethylene threads
for the longest life

Tinned copper strands
for the highest conductivity

Thanks to Tornado more power at the fence

Now it dawns on you

Do you know the expected voltage when an animal touches a fence at 100 m, 1 km or 3 km along a single-wire fence, if the voltage at the start of the fence is 8000 volts? In practice, PATURA recommends fence voltages of 3000 – 4000 volts.

	Fence Voltage		
	after 100 m	after 1 km	after 3 km
Compact Polyrope 6 x 0.20	4200 V	800 V	300 V
Super Polyrope 3 x 0.40	5500 V	1400 V	600 V
Tornado Polyrope 1 x 0.30 + 5 x 0.20	7700 V	5500 V	3400 V
Tornado XL Polyrope 3 x 0.30 + 8 x 0.20	7900 V	6900 V	5500 V
Tornado XXL Polyrope 3 x 0.30 + 6 x 0.20	7900 V	6900 V	5500 V

PATURA Tornado: maximum conductivity for the highest security

As a speciality, PATURA offers the combined processing of stainless steel and copper strands. Stainless steel strands are extremely durable, copper strands have very high conductivity.
Only through this combination can a broken copper strand again be conducting the current through a stronger stainless steel one. Unlike conventional polywires, high durability and high conductivity are combined in one product.

Reduce the specified fence length to half where there is vegetation and to ¼ where there is heavy vegetation

Polyrope

	Ref.	Colour	Plastic fibres	Number of stainless steel strands	Ø stainless steel strands (mm)	Number of copper strands (tinned)	Ø copper strands (mm)	Resistance (ohms/m)	Max. suggested single wire length	Ultimate tensile strength (kg)	
Compact Polyrope	182000	white	Poly-fibres	6	0.20	-	-	4.5	300 m	300	With a fence length of over 400 m, use only PATURA Tornado products
Super Polyrope	182100	white-green	Poly-fibres	3	0.40	-	-	2.3	700 m	320	
Tornado Polyrope	182501/182601	white-orange	Micro-fibres	5	0.20	1	0.30	0.23	5 km	290	
Tornado XL Polyrope	183001/183101	white-red	Micro-fibres	8	0.20	3	0.30	0.08	13 km	310	
Tornado XXL Polyrope	183500/183600	white-red	Micro-fibres	6	0.20	3	0.30	0.08	13 km	400	

Ideal where there is vegetation

183001 183101

Tornado XL Polyrope

PATURA UV-Warranty 5 years
White-red, with 3 copper strands Ø 0.30 mm and 8 stainless steel strands Ø 0.20 mm

200 m roll
183001

500 m roll
183101

183500 183600

Tornado XXL Polyrope

PATURA UV-Warranty 5 years
Braided rope (for maximum durability)
White-red, with 3 copper strands Ø 0.30 mm and 6 stainless steel strands Ø 0.20 mm

200 m roll
183500

500 m roll
183600

Compact Polyrope

PATURA UV-Warranty 3 years
White, with 6 stainless steel strands Ø 0.20 mm

200 m roll
182000

Super Polyrope

PATURA UV-Warranty 3 years
White-green, with 3 stainless steel strands Ø 0.40 mm

200 m roll
182100

182501
182511 182601

Tornado Polyrope

PATURA UV-Warranty 5 years
White-orange, with 1 copper strand Ø 0.30 mm and 5 stainless steel strands Ø 0.20 mm

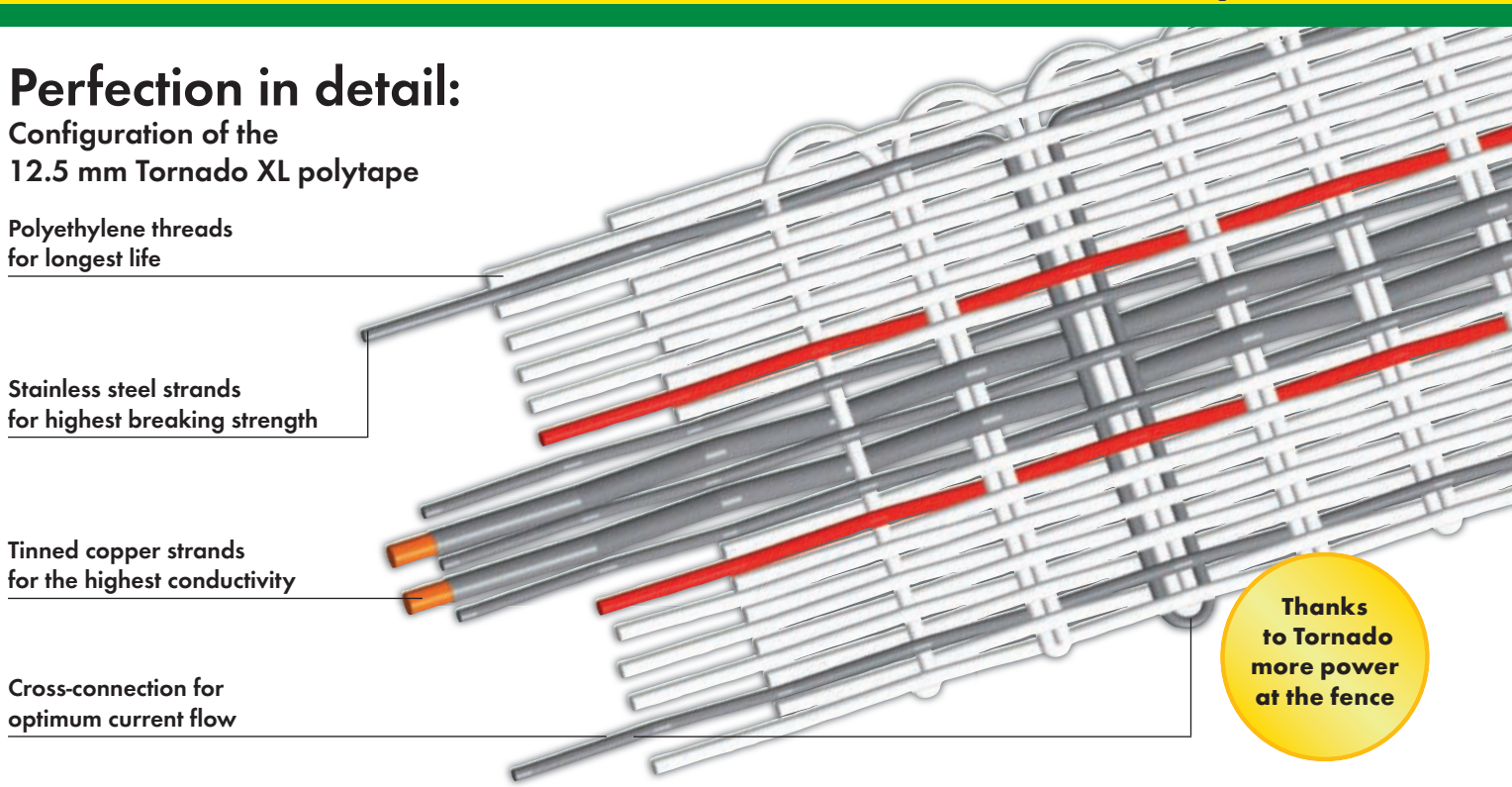
200 m roll, white-orange
182501

200 m roll, brown
182511

500 m roll, white-orange
182601

Perfection in detail:

Configuration of the 12.5 mm Tornado XL polytape



Now it dawns on you

Do you know the expected voltage when an animal touches a fence at 100 m, 1 km or 3 km along a single-wire fence, if the voltage at the start of the fence is 8000 volts? In practice, PATURA recommends fence voltages of 3000 – 4000 volts.

	Fence Voltage		
	after 100 m	after 1 km	after 3 km
Standard Polytape 4 x 0.16	2600 V	400 V	100 V
Compact Polytape 6 x 0.16	3300 V	500 V	200 V
Tornado Polytape 1 x 0.30 + 4 x 0.20	7700 V	5500 V	3400 V
Tornado XL Polytape 2 x 0.30 + 5 x 0.20	7800 V	6500 V	4700 V

PATURA polytapes: maximum conductivity for the highest security

As a speciality, PATURA offers the combined processing of stainless steel and copper strands. Stainless steel conductors are extremely durable, copper strands have very high conductivity. Only through this combination can a broken copper strand again be conducting the current through a stronger stainless steel one.
In addition, the lengthwise strands are cross-connected. Unlike conventional polywires, high durability and high conductivity are combined in one product.

Reduce the specified fence length to half where there is vegetation and to ¼ where there is heavy vegetation

Polytape

10 - 12.5 mm

	Ref.	Colour	Cross connection	Edge reinforcement	Number of plastic fibres	Ø plastic fibres (mm)	Number of stainless steel strands	Ø stainless steel strands (mm)	Number of copper strands (tinned)	Ø copper strands (mm)	Resistance (ohms/m)	Max. suggested single tape length	Ultimate tensile strength (kg)	
Standard Polytape 10 mm	184000/184100	yellow-orange	-	-	20	0.30	4	0.16	-	-	10	150 m	60	With a fence length of over 400 m, use only PATURA Tornado products
Compact Polytape 10 mm	184200/184300	white-green	-	-	25	0.30	6	0.16	-	-	7.0	200 m	70	
Tornado Polytape 12.5 mm	185001/185101	white-orange	•	-	25	0.38	4	0.20	1	0.30	0.23	5 km	75	
Tornado XL Polytape 12.5 mm	185501/185601	white-red	•	-	25	0.38	5	0.20	2	0.30	0.12	9 km	80	

185001
185011 185101

Tornado Polytape

12.5 mm
PATURA UV-Warranty 5 years
With 1 copper strand Ø 0.30 mm and 4 stainless steel strands Ø 0.20 mm

200 m roll, white-orange
185001

200 m roll, brown
185011

400 m roll, white-orange
185101

Ideal where there is vegetation

185501 185601

Tornado XL Polytape 12.5 mm

12.5 mm
PATURA UV-Warranty 5 years
White-red, with 2 copper strands Ø 0.30 mm and 5 stainless steel strands Ø 0.20 mm

200 m roll
185501

400 m roll
185601

184000
184400 184100 184002

Standard Polytape 10 mm

10 mm
4 stainless steel strands Ø 0.16 mm

200 m roll, yellow-orange
184000

200 m roll, white
184400

250 m roll, yellow-orange
184100

2 x 200 m, yellow-orange
184002

184200 184300

Compact Polytape 10 mm

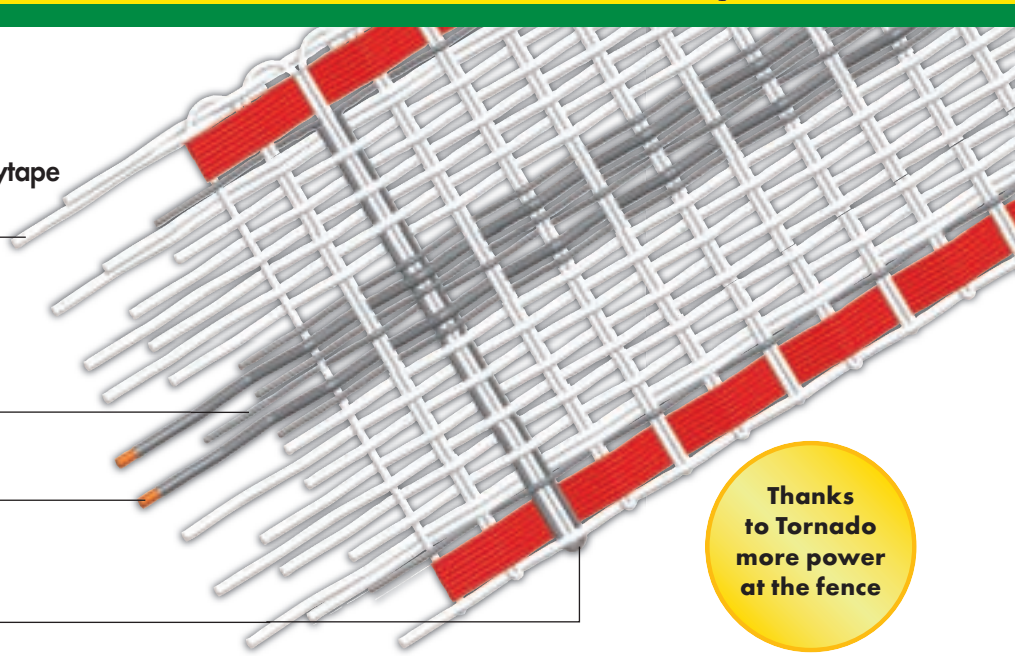
10 mm
PATURA UV-Warranty 3 years
White-green, with 6 stainless steel strands Ø 0.16 mm

200 m roll
184200

400 m roll
184300

Perfection in detail:

Configuration of the 20 mm Tornado XL polytape



Polyethylene threads
for longest life

Stainless steel strands
for highest breaking strength

Tinned copper strands
for the highest conductivity

Cross-connection
for optimum current flow

Thanks to Tornado more power at the fence

Now it dawns on you

Do you know the expected voltage when an animal touches a fence at 100 m, 1 km or 3 km along a single-wire fence, if the voltage at the start of the fence is 8000 volts? In practice, PATURA recommends fence voltages of 3000 – 4000 volts.

	Fence Voltage		
	after 100 m	after 1 km	after 3 km
Standard Polytape 4 x 0.16	2600 V	400 V	100 V
Compact Polytape 6 x 0.16	3300 V	500 V	200 V
Compact Plus Polytape	4200 V	800 V	300 V
Super Polytape 4 x 0.20 + 2 x 0.30	4900 V	1100 V	400 V
Tornado Polytape 1 x 0.30 + 4 x 0.20	7700 V	5500 V	3400 V
Tornado XL Polytape 2 x 0.30 + 5 x 0.20	7800 V	6500 V	4700 V

PATURA polytapes: maximum conductivity for the highest security

As a speciality, PATURA offers the combined processing of stainless steel and copper strands. Stainless steel conductors are extremely durable, copper strands have very high conductivity. Only through this combination can a broken copper strand again be conducting the current through a stronger stainless steel one.In addition, the lengthwise strands are cross-connected. Unlike conventional polywires, high durability and high conductivity are combined in one product.

Reduce the specified fence length to half where there is vegetation and to ¼ where there is heavy vegetation

Polytape

20 mm

	Ref.	Colour	Cross connection	Edge reinforcement	Number of plastic fibres	Ø plastic fibres (mm)	Number of stainless steel strands	Ø stainless steel strands (mm)	Number of copper strands (tinned)	Ø copper strands (mm)	Resistance (ohms/m)	Max. suggested single tape length	Ultimate tensile strength (kg)	
Standard Polytape 20 mm	186000	yellow-orange	-	-	30	0.30	4	0.16	-	-	10	150 m	80	With a fence length of over 400 m, use only PATURA Tornado products
Compact Polytape 20 mm	186100/186200	white-green	-	-	30	0.38	6	0.16	-	-	7.0	200 m	85	
Compact Plus Polytape 20 mm	186700/186800	white	-	-	30	0.38	6	0,20	-	-	4,5	250 m	85	
Super Polytape 20 mm	186300	white-green	-	-	30	0.38	4+2	0.2/0.3	-	-	3,2	500 m	90	
Tornado Polytape 20 mm	186501/186601	white-orange	•	-	44	0.38	5	0.20	1	0.30	0.23	5 km	110	
Tornado XL Polytape 20 mm	187001/187101	white-red	•	•	51	0.38	6	0.20	2	0.30	0.11	9 km	135	

Super Polytape 20 mm

20 mm
PATURA UV-Warranty 3 years
White-green, with 4 stainless steel strands Ø 0.20 mm and 2 stainless steel strands Ø 0.30 mm

200 m roll
186300

186501
186511 186601

Tornado Polytape

20 mm
PATURA UV-Warranty 5 years
With 1 copper strand Ø 0.30 mm and 5 stainless steel strands Ø 0.20 mm

200 m roll, white-orange
186501

200 m roll, brown
186511

400 m roll, white-orange
186601

Ideal where there is vegetation

187001 187101

Tornado XL Polytape

20 mm
PATURA UV-Warranty 5 years
White-red, with 2 copper strands Ø 0.30 mm and 6 stainless steel strands Ø 0.20 mm

200 m roll
187001

400 m roll
187101

Standard Polytape

20 mm
Yellow-orange, 4 stainless steel strands Ø 0.16 mm

200 m roll
186000

186100 186200

Compact Polytape

20 mm
PATURA UV-Warranty 3 years
White-green, with 6 stainless steel strands Ø 0.16 mm

200 m roll
186100

400 m roll
186200

186700 186800

Compact Plus Polytape

20 mm
PATURA UV-Warranty 3 years
White, with 6 stainless steel strands Ø 0.20 mm

200 m roll
186700

400 m roll
186800

Perfection in detail:

Configuration of the 40 mm Tornado XL polytape

Edge reinforcement for maximum tensile strength

Polyethylene threads for longest life

Stainless steel strands for highest breaking strength

Tinned copper strands for the highest conductivity

Cross connection for optimum current flow

Thanks to Tornado more power at the fence

Now it dawns on you

Do you know the expected voltage when an animal touches a fence at 100 m, 1 km or 3 km along a single-wire fence, if the voltage at the start of the fence is 8000 volts? In practice, PATURA recommends fence voltages of 3000 – 4000 volts.

	Fence Voltage		
	after 100 m	after 1 km	after 3 km
Compact Polytape 40 mm, 8 x 0.16	3900 V	700 V	300 V
Compact Plus Polytape 40 mm, 8 x 0,20	4800 V	1000 V	400 V
Tornado Polytape 38 mm, 1 x 0.30 + 11 x 0.16	7700 V	5600 V	3500 V
Tornado XL Polytape 40 mm, 3 x 0.30 + 11 x 0.16	7900 V	6900 V	5500 V

PATURA polytapes: maximum conductivity for the highest security

As a speciality, PATURA offers the combined processing of stainless steel and copper strands. Stainless steel strands are extremely durable, copper strands have very high conductivity. Only through this combination can a broken copper strand again be conducting the current through a stronger stainless steel one. In addition, the length-wise strands are cross-connected. Unlike conventional polywires, high durability and high conductivity are combined in one product.

The demands on polytape

The most important criteria in the assessment of a polytape are its conductivity, its mechanical strength and, particularly for horses, its visibility. Narrow tapes offer the possibility simple rolling up combined with low weight and higher flexibility. Polytapes offer the optimum visibility for permanent fences. For optimum longevity as resistance to wind and weather, however, they require correct erection using high quality accessories.

Reduce the specified fence length to half where there is vegetation and to ¼ where there is heavy vegetation

Polytape 40 mm

	Ref.	Colour	Cross connection	Edge reinforcement	Number of plastic fibres	Ø plastic fibres (mm)	Number of stainless steel strands	Ø stainless steel strands (mm)	Number of copper strands (tinned)	Ø copper strands (mm)	Resistance (ohms/m)	Max. suggested single tape length	Ultimate tensile strength (kg)	
Compact Polytape 40 mm	188500	white-green	-	-	35	0.38	8	0.16	-	-	5.2	300 m	95	With a fence length of over 400 m, use only PATURA Tornado products
Compact Plus Polytape 40 mm	188600	white	-	-	35	0.38	6	0.20	-	-	3.4	400 m	95	
Tornado Polytape 38 mm	189001/189101	white-orange	•	-	56	0.38	11	0.16	1	0.30	0.22	5 km	155	
Tornado XL Polytape 40 mm	189501/189511	white-red	•	•	30/28	0.5/0.38	11	0.16	3	0.30	0.08	13 km	190	

Tornado Polytape 38 mm

PATURA UV-Warranty 5 years
1 copper strand Ø 0.30 mm and 11 stainless steel strands Ø 0.16 mm

200 m roll, white-orange
189001

200 m roll, brown
189101

Ideal where there is vegetation

Tornado XL Polytape 40 mm

PATURA UV-Warranty 5 years
3 copper strands Ø 0.30 mm and 11 stainless steel strands Ø 0.16 mm

200 m roll, white-red
189501

200 m roll, brown
189511

Compact Polytape 40 mm

PATURA UV-Warranty 3 years
White-green, with 8 stainless steel strands Ø 0.16 mm

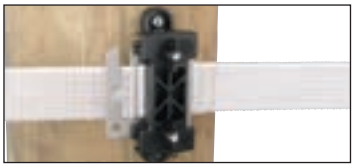
200 m roll
188500

Compact Plus Polytape 40 mm

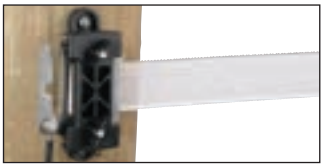
PATURA UV-Warranty 3 years
White, with 8 stainless steel strands Ø 0.20 mm

200 m roll
188600

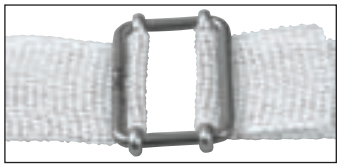
Join polytapes



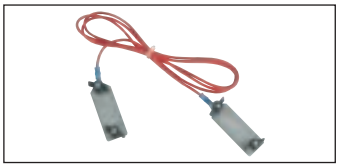
Polytape Strain and Corner Insulator: as insulator with connector plate



Polytape Strain and Corner Insulator: for cross-connection in permanent fences with high voltage cable (160910)



Tape Joiner: ideal for lengthwise joins in temporary fences



Fence Connecting Cable: ideal for cross-connection in temporary fences

Mount strain insulators correctly – for optimum corner attachment

The longevity and reliability of a PATURA permanent electric fence will profit from the "art" of clean, highly resilient and secure mounting of the strain and corner insulators. Try it yourself, or let our specialists show you!

1. Place the wire around the post and form a loop

2. Wind the free end of the wire around the tension wire 3 times

3. Feed the free end of the wire into the strain insulator

4. Wind the free end 5 times around the tension wire

5. The completed knot – the tension runs centrally through the insulator

6. Pull the fence wire through the insulator

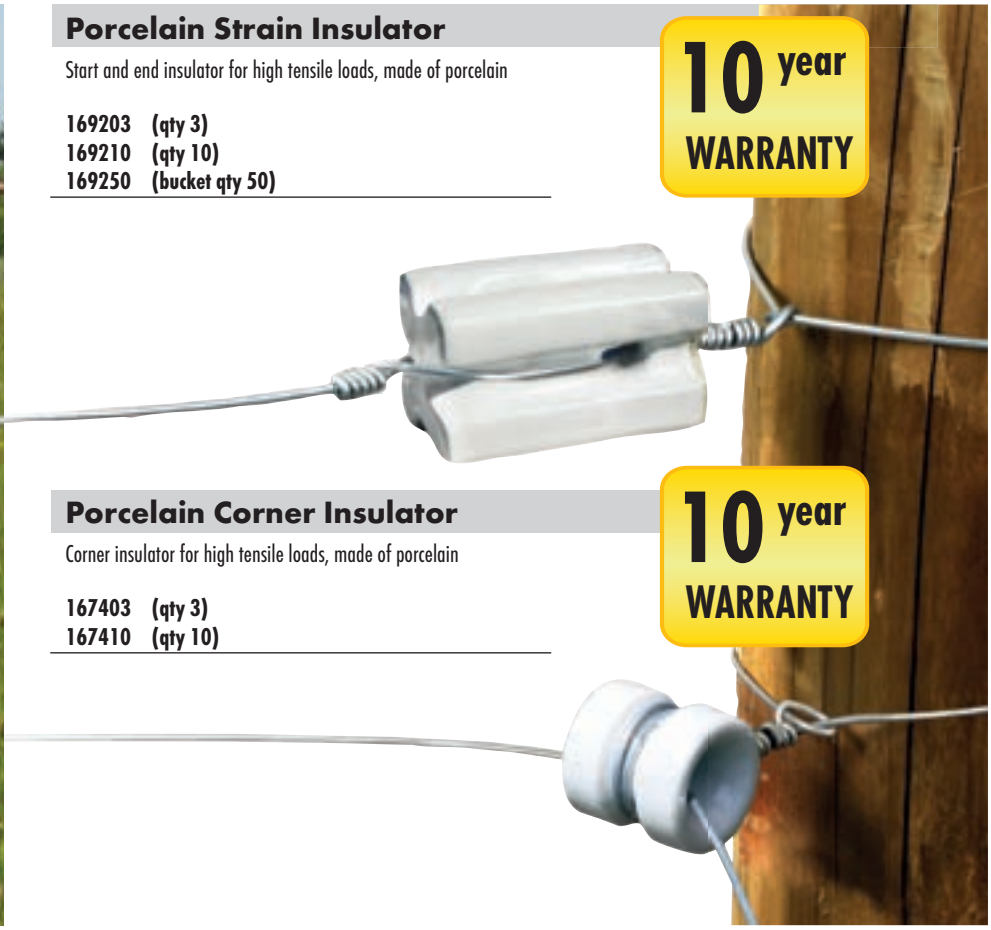
7. Wind the free end 5 times around the tension wire

8. Leave the free end long to allow for cross-connection

Porcelain Strain Insulator

Start and end insulator for high tensile loads, made of porcelain

169203 (qty 3)
169210 (qty 10)
169250 (bucket qty 50)



Porcelain Corner Insulator

Corner insulator for high tensile loads, made of porcelain

167403 (qty 3)
167410 (qty 10)

Staples

3.8 x 38 mm, zinc/aluminium galvanised
For attaching permanent fence insulators and offset insulators, 1 kg – approx. qty 155

138001 (1 kg)
138002 (2.5 kg)

Strain Insulator

Start and end insulator for high tensile loads, plastic, black

167706 (qty 6)
167725 (qty 25)
167760 (bucket qty 100)

Super Strain Insulator

Start and end insulator for high tensile loads, fibreglass-reinforced plastic, white

167806 (qty 6)
167825 (qty 25)
167860 (bucket qty 100)

Strain Insulators

	Ref.	Colour	Suitable for wire	Suitable for HippoWire	Suitable for rope	Suitable for polytape	Suitable as strain insulator	Suitable as corner insulator	Suitable as line insulator
Strain Insulator	167706/167725	black	•	•	•	-	•	-	-
Super Strain Insulator	167806/167825	white	•	•	• •	-	• •	-	-
Porcelain Strain Insulator	169203/169210	white	• •	• •	-	-	• •	•	-
Porcelain Corner Insulator	167403/167410	white	• •	•	-	-	-	• •	-

Fence wires need to be insulated from earth

The role of insulators is to insulate the live wire from earth. With the high voltages which are typical for an electric fence, it is important to avoid arcing from the wire to the post, and at the same time minimize any leakage current due to dampness or dirt deposits. Short circuits or discharges not only create a load for the energiser, but can also create radio interference. It should be noted that with low quality insulators, considerable time and effort is required to check them regularly and/or replace them.

The right insulator in the right place

It is important in the use of insulators to use the correct insulator in the correct location. One differentiates between strain and corner insulators at the beginning and end of the fence, at places where it changes direction, and line insulators for the general fence-line. In practice, the same insulator is often used for all areas of application. Almost always, a line insulator which is designed only to withstand minimal tension, is chosen for the corners and the beginning of the fence as well. In these locations, even the slightest demands will cause them to fail. The use of just a small number of rugged corner and strain insulators very quickly pays for itself by way of longevity in the fence, a lower maintenance load and, above all, in considerably greater security.

Permanent Fence Insulators

	Ref.	Colour	Suitable for wire	Suitable for HippoWire	Suitable for rope	Suitable for polytape	Suitable as strain insulator	Suitable as corner insulator	Suitable as line insulator
Permanent Fence Insulator Wire	**167325**	black	• •	-	-	-	-	-	•
Permanent Fence Insulator Rope	**168425**	black	•	• •	• •	-	-	-	•
Permanent Fence Pinlock Insulator	**169025**	black	• •	-	-	-	-	-	•
Permanent Fence Insulator Rope	**168325**	white	•	• •	• •	-	-	-	•
Permanent Fence Pinlock Insulator	**169125**	white	•	• •	• •	-	-	-	•

Permanent Fence Pinlock Insulator

For wire
Solid, UV resistant plastic insulator, mount using staples or screws, pinlock allows for easy wire removal, black
Mounting tip:
In curves, the insulator must be installed applying pressure on the post

(qty 25)
169025

Permanent Fence Insulator

For wire
Solid, UV resistant plastic insulator, mount using staples or screws, black
Mounting tip:
In curves, the insulator must be installed applying pressure on the post

(qty 25)
167325

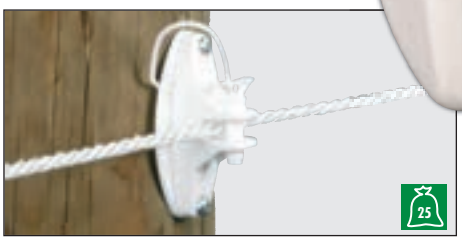
(bucket qty 150)
167365

(qty 1000)
167366

Permanent Fence Pinlock Insulator

For rope and HippoWire
Solid, UV resistant plastic insulator, mount using screws, pinlock allows for easy wire removal, white
Mounting tip:
In curves, the insulator must be installed applying pressure on the post

(qty 25)
169125

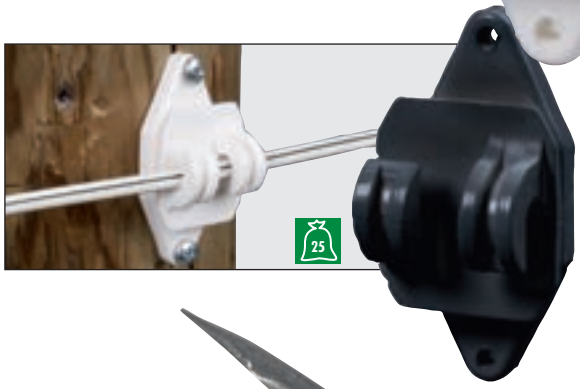


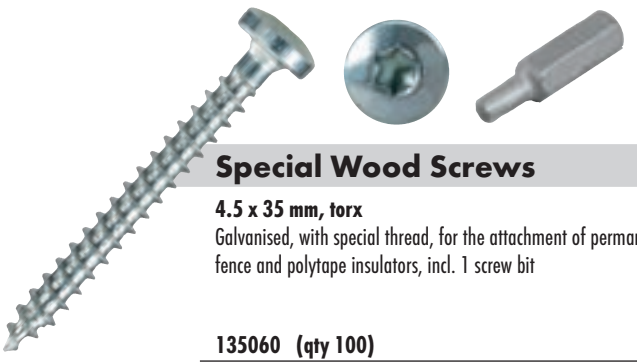
Permanent Fence Insulator

For rope and HippoWire
Solid, UV resistant plastic insulator, mount using screws, white
Mounting tip:
In curves, the insulator must be installed applying pressure on the post

white, (qty 25)
168325

black, (qty 25)
168425





Special Wood Screws

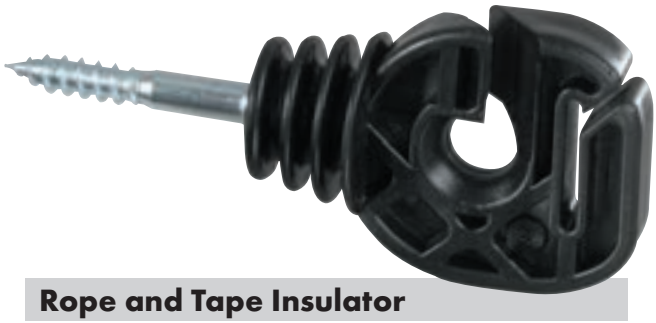
4.5 x 35 mm, torx
Galvanised, with special thread, for the attachment of permanent fence and polytape insulators, incl. 1 screw bit

135060 (qty 100)

Staples

3.8 x 38 mm, zinc/aluminium galvanised
For attaching permanent fence insulators and offset insulators, 1 kg – approx. qty 155

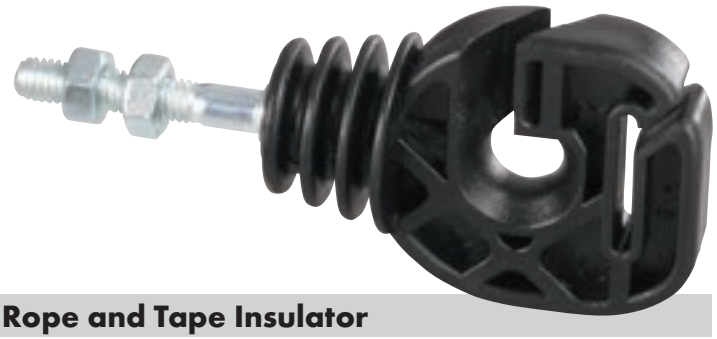
138001 (1 kg)
138002 (2.5 kg)



Rope and Tape Insulator

Wood thread
For polytapes up to 20 mm and polyrope, shaft diameter 6 mm, black

127325 (qty 25)



Rope and Tape Insulator

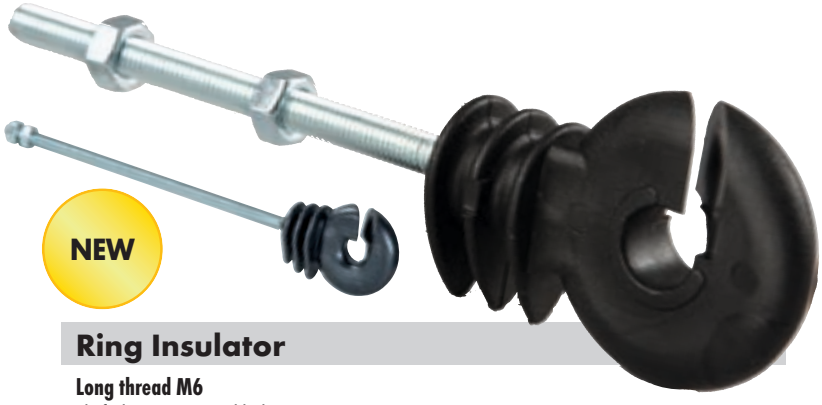
Thread M6
For polytapes up to 20 mm and polyrope, black

127225 (qty 25)

Heavy-Duty Ring Insulator

With wood thread
Shaft diameter 6 mm, for polywires, polyropes and polytapes up to 10 mm, extra large aperture for ropes

102025 (qty 25)



Ring Insulator

Long thread M6
Shaft diameter 6 mm; black

102925	**thread length 80 mm**	**black**	**(qty 25)**
101640	**thread length 150 mm**	**black**	**(qty 25)**

Ring Insulator

With split-pin
For angle steel post, black

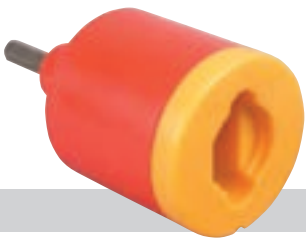
107325 (qty 25)
107363 (bucket qty 125)

Insulator Spinner, metal

For easy screw-in of ring insulators in softwood posts using cordless drills

Metal
158910

Plastic
158901



Isoflott

Insulator spinner
For easy screw-in of ring and slotted insulators in softwood posts using electric screwdrivers

159000

Quality Ring Insulator

Thread M6
High quality plastic, solid shaft attachment, large drip zones, shaft diameter 6 mm, black

102425 **(qty 25)**

Quality Ring Insulator

With wood thread
High quality plastic, solid shaft, large drip zones, shaft diameter 6 mm, black

101825 **(qty 25)**

Super Ring Insulator

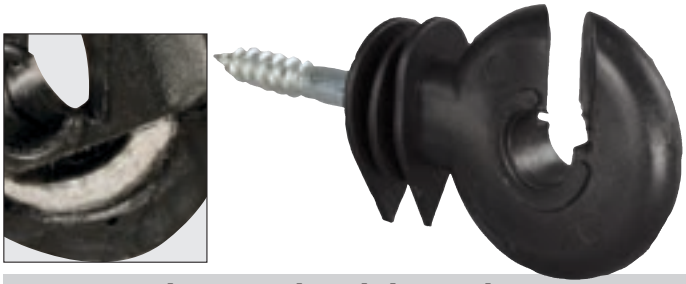
With wood thread
Shaft diameter 6 mm, for polywires, polyropes and polytapes up to 12.5 mm

103075	**black**	**(qty 25)**
103025	**red**	**(qty 25)**
103080	**black**	**(bucket qty 150)**
103060	**red**	**(bucket qty 150)**

Ring Insulator

With wood thread
Shaft diameter 6 mm, black

101725	**(qty 25)**
101760	**(bucket qty 100)**
101780	**(bucket qty 250)**



Ring Insulator with Solid Metal Core

Black, with wood thread 5 mm, shaft diameter 5 mm, for polywires, polyropes and polytapes up to 12.5 mm, benefit: screws in securely due to continuous support
Drawback: can arch through when using powerful energisers

103125	**(qty 25)**
103160	**(bucket qty 150)**

Ring Insulator Compact

With wood thread
Shaft diameter 5.2 mm, black

101225	**(qty 25)**
101270	**(bucket qty 150)**

Corner Donut Insulator with Wood Thread

① With wood thread
For redirection of polywires at corners without chafing, black

102206 (qty 6)
102210 (qty 10)

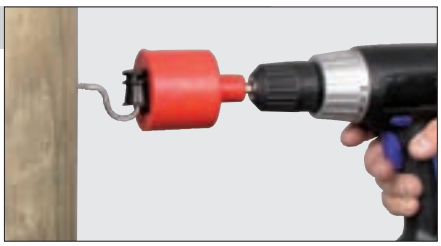
② With thread M8

104206 (qty 6)

Isoflott

Insulator spinner
For easy screw-in of ring and slotted insulators in softwood posts using electric screwdrivers

159000



After removal of the yellow insert, the Isoflott can be used for slotted insulators

Slotted Insulator

① With wood thread
Black

104325 (qty 25)
104365 (bucket qty 150)

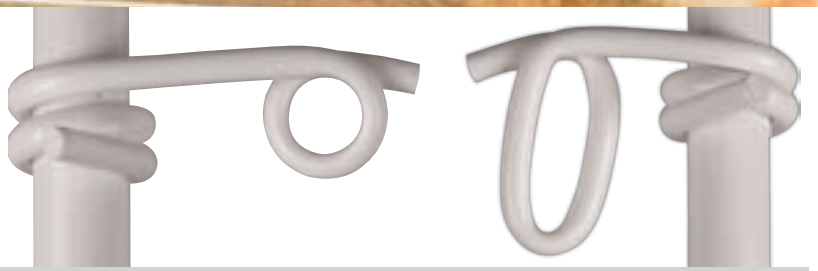
② With thread M6
Black

102325 (qty 25)

Slotted Insulator Cellidor

With wood thread
Yellow, made of UV-resistant cellulose acetate

102125 (qty 25)



Eyelet Insulator

For polywire and rope, for posts Ø 12 mm
251625 (qty 25)
251660 (qty 150)

For polywire and rope, for posts Ø 10 mm
251825 (qty 25)

For polyrope, For posts Ø 10 mm
251925 (qty 25)

Super Screw-On Rod Insulator

UV-resistant, solid plastic insulator, black, height adjustable, for all posts (without cap insulator) up to 16 mm, suitable for polywires and polytapes up to 12.5 mm

165625 (qty 25)

Insultube

Suitable as strain assembly for ropes with polyrope clamp (ref. 160405), transparent

161405 (5 m)

Screw-On Rod Insulator

UV-resistant, solid plastic insulator, black, height adjustable, for all posts up to 12 mm, can be subsequently attached from the side, suitable for polywires and polytapes up to 12.5 mm

165525 (qty 25)

NEW

Insultube

Mounted to wooden post using samples; for polywire and wire up to 3 mm; not recommended for high power energisers

161410 (qty 100)

Nail Insulator

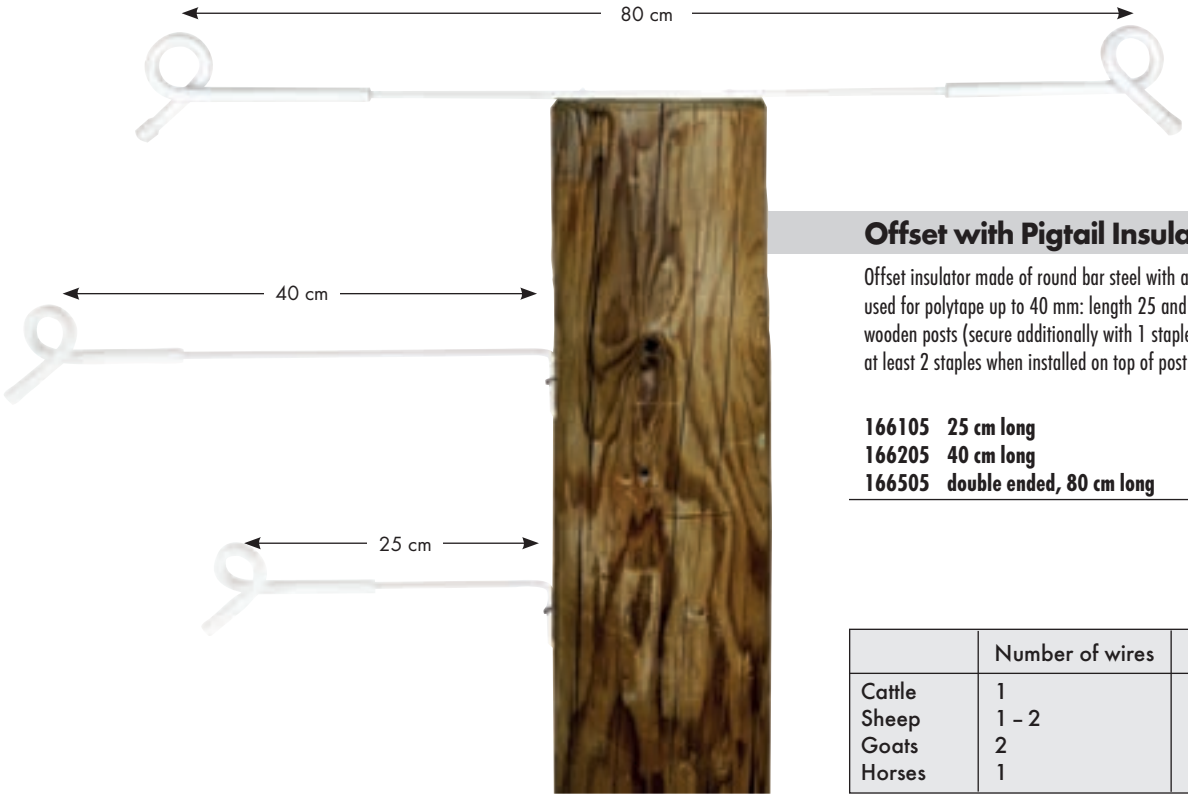
For polywire and wire up to 2.5 mm; recommended use only with energiser up to 1 joules

101110 (qty 100)

Increase the longevity of your fences

PATURA offers the possibility of allowing old conventional fences to provide effective animal control for many years to come. New, non-electric fences have when equipped with offsets almost twice the longevity. Insulators on offsets can be fixed to 2 horizontal wires of a fence, or attached directly to the post. The live wire runs inside the actual fence. On level land the offsets can be spaced at up to 8 m apart.

For your safety:
Do not install electrified wires in front of barbed wire fences



Offset with Pigtail Insulator

Offset insulator made of round bar steel with an insulated loop, can also be used for polytape up to 40 mm: length 25 and 40 mm for nailing directly onto wooden posts (secure additionally with 1 staple), secure double-end offset with at least 2 staples when installed on top of post

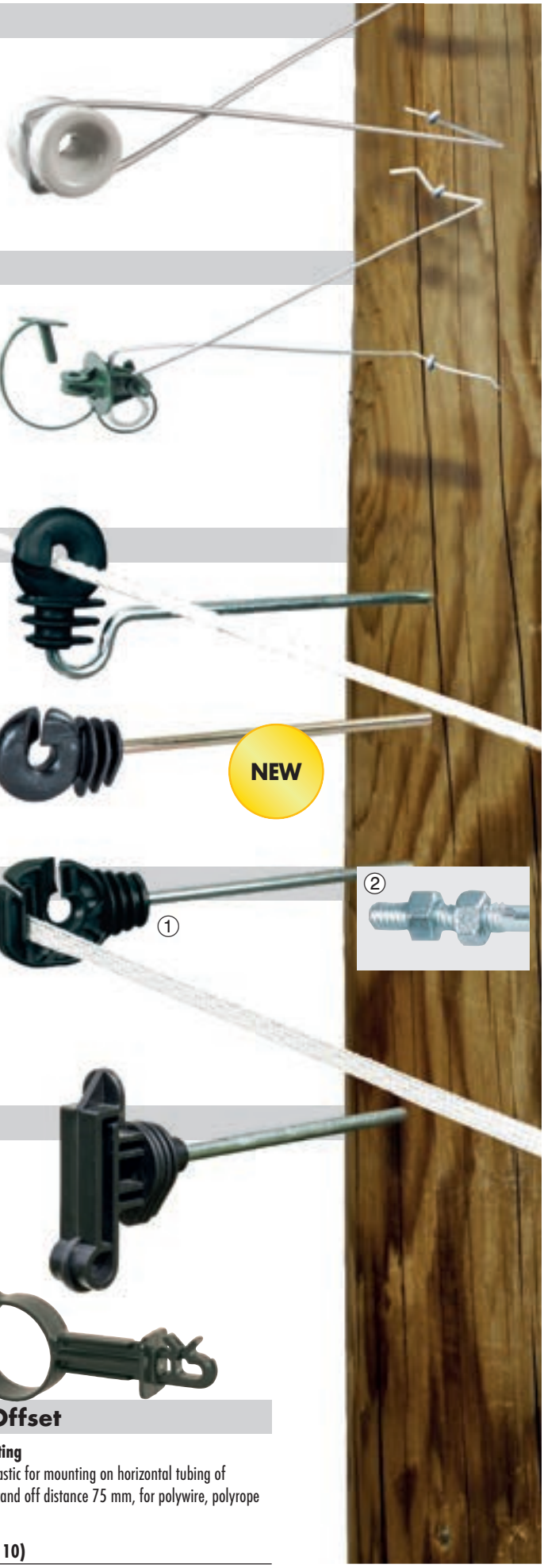
166105	**25 cm long**	**(qty 5)**
166205	**40 cm long**	**(qty 5)**
166505	**double ended, 80 cm long**	**(qty 5)**

	Number of wires	Height of wire (cm)
Cattle	1	70
Sheep	1 – 2	30 / (70)
Goats	2	30 / 70
Horses	1	90

Offset Bracket with Porcelain Insulator

For insertion with porcelain insulator
Porcelain insulator with offset bracket for insertion into existing fence wires or for stapling onto posts, length 300 mm

166010 (qty 10)



Offset Bracket with Pinlock Insulator

For insertion with pinlock insulator
Pinlock insulator with offset for insertion into existing fence wires or for stapling onto posts, length 300 mm

166610 (qty 10)

Ring Insulator with Wood Thread

With long shaft (20 cm)
Wood thread, for polywires
101610 (qty 10)

With long shaft straight (18 cm)
Wood thread, for polywires
101620 (qty 10)

NEW

Rope and Tape Insulator with Wood Thread

With long shaft (18 cm)
For polytape up to 20 mm and polyrope

① **Wood thread**
127410 (qty 10)

② **Thread M6**
127710 (qty 10)

Rope and Tape Insulator

With long shaft (18 cm)
For tapes up to 40 mm and ropes

127910 (qty 10)

Pipe Clamp

For round posts, Ø 40 – 60 mm
For mounting insulators with threads M6 or M8 on garden fence posts, with rubber lining for firm grip without damaging the post

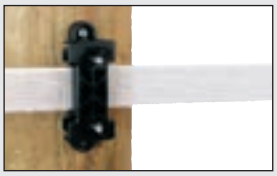
127810 (qty 10)

Plastic Offset

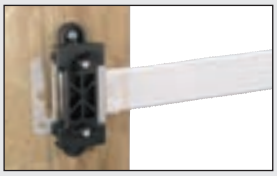
For tube mounting
Offset of solid plastic for mounting on horizontal tubing of Ø 41 - 45 mm, stand off distance 75 mm, for polywire, polyrope and wire

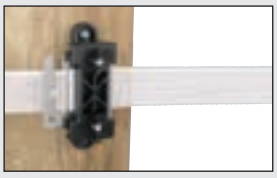
173910 (qty 10)

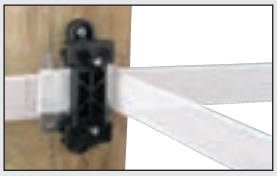
Polytape Strain and Corner Insulator: 1 insulator – many areas of application

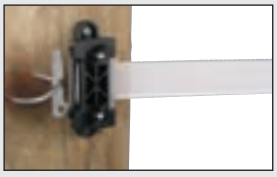

Polytape Corner Insulator: used as sturdy line insulator

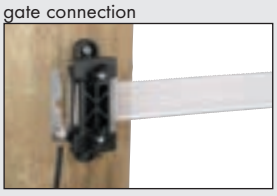

Polytape Corner Insulator: used as sturdy corner insulator


Polytape Strain and Corner Insulator: used as start insulator


Polytape Strain and Corner Insulator: used as insulator and tape connector


Polytape Strain and Corner Insulator: used as 3-way insulator


Polytape Strain and Corner Insulator: used as insulator with gate connection


Polytape Strain and Corner Insulator: used for cross-connection of polytapes with cable

Tornado Polytape Insulator

Solid plastic
Rugged line insulator for holding polytape tightly, suitable for all tapes up to 40 mm, safe and protective clamping of the tape due to offset rubber inserts, black

(qty 20)
166920


Open the insulator


Insert polytape – close the insulator

Polytape Insulator

Solid plastic
Suitable as line insulator for all tapes up to 40 mm, separate holder for rope, black

(qty 25)
166825

(bucket qty 60)
166851

Polytape Clamp Insulator

With stainless steel connector plate
For polytape up to 40 mm and fastening of gate handles

167602 (qty 2)

Polytape Clamp Insulator

Suitable as line insulator for holding polytapes, but also suitable as corner insulator for all tapes up to 40 mm, anti-slip due to offset rubber profile, black

(qty 3)
167203

(qty 20)
167220

Polytape Corner Insulator

Solid plastic
Sturdy insulator for polytape up to 40mm, clamps the tape safely between 2 faces, ideal as corner insulator for 40mm polytape

167003 (qty 3)

Polytape Corner Insulator

With 2 tape joiners
Corner insulator for polytape up to 40 mm incl. 2 tape joiners to connect and/or attach polytape

168003 (qty 3)

Polytape Strain Insulator

With stainless steel connector plate
Sturdy insulator with stainless steel connector plate for polytape up to 40 mm, multiple applications in 40 mm polytape fences (see left side)

167103 (qty 3)

Polytape Screw-On Rod Insulator

For posts up to 12 mm, ideal for polytapes from 20 –40 mm and rope, black

127510 (qty 10)

Rope and Tape Insulator

Wood thread
For tapes up to 40 mm and ropes, shaft diameter 6 mm, black

127025 (qty 25)

Polytape Corner Donut Insulator

For polytape, wood thread
Corner insulator for polytape fences, for polytapes up to 40 mm, black

104003 (qty 3)

Rope/Tape Insulator

Wood thread
For tapes up to 20 mm and rope, shaft diameter 6 mm, black

127325 (qty 25)

Rope/Tape Insulator

Thread M6
For tapes up to 20 mm and rope, black

127225 (qty 25)

Polytape Buckle

Plastic
Easily adjustable start and end connection for polytapes, allows rapid retensioning of the tapes, not suitable for electrical connections!

12.5 mm, (qty 5)
103605

20 mm, (qty 5)
103705

40 mm, (qty 3)
103803

Tape Joiner

stainless steel
Good connection, no corrosion, optimum current flow

10 - 12.5 mm, (qty 5)
103305

20 mm, (qty 5)
103405

30 – 40 mm, (qty 5)
103505

Plastic Post

Robust, fully insulating plastic post with steel spike and double step, 5 or 7 respectively 9 wire holders + 1 or 3 respectively 5 rope holders

① **0.73 m 5 wire holders**(fence height 55 cm)
163310 (qty 10) white

② **0.73 m 5 wire holders**(fence height 55 cm)
163320 (qty 10) green

③ **1.05 m 7 wire holders**(fence height 85 cm)
163710 (qty 10) white

④ **1.05 m 7 wire holders**(fence height 85 cm)
163720 (qty 10) green

⑤ **155 cm 8 wire holders**(fence height 130 cm)
163810 (qty 10) white

40

Stirrup Post

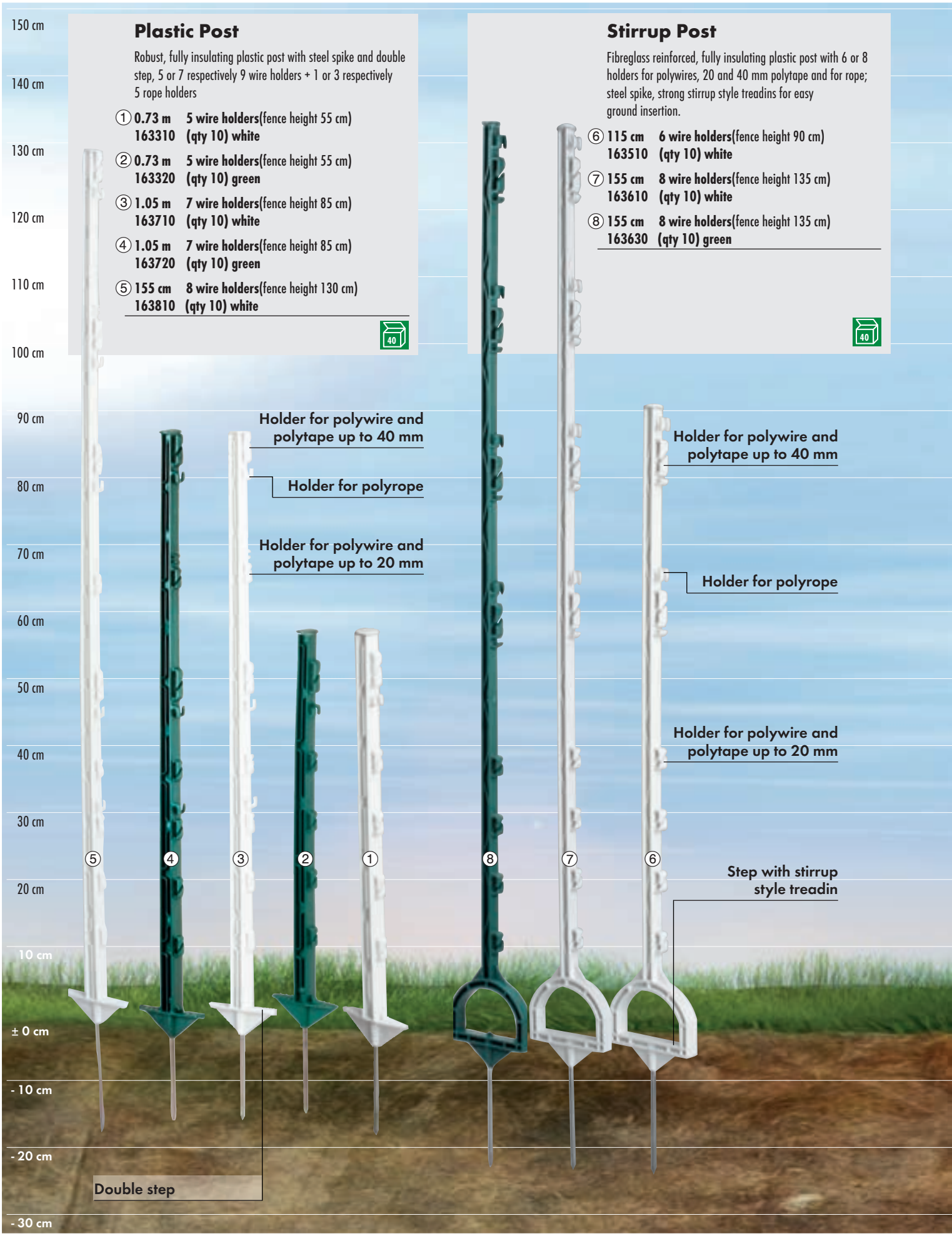
Fibreglass reinforced, fully insulating plastic post with 6 or 8 holders for polywires, 20 and 40 mm polytape and for rope; steel spike, strong stirrup style treadins for easy ground insertion.

⑥ **115 cm 6 wire holders**(fence height 90 cm)
163510 (qty 10) white

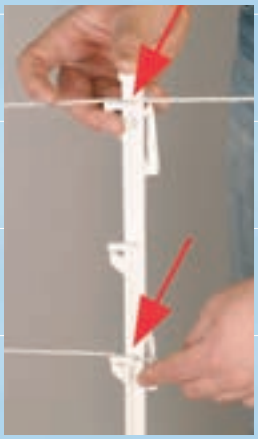
⑦ **155 cm 8 wire holders**(fence height 135 cm)
163610 (qty 10) white

⑧ **155 cm 8 wire holders**(fence height 135 cm)
163630 (qty 10) green

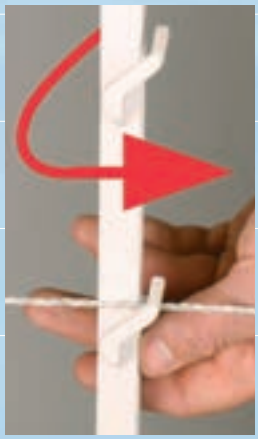
40



The post with the brillant twist

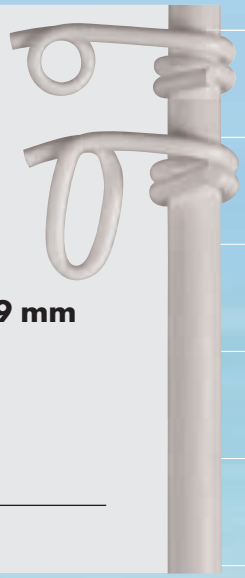


Place each polywire into the appropriate holder



Twist the post through 90° - all polywires are now fixed – then push into the ground

150 cm
140 cm
130 cm
120 cm
110 cm
100 cm
90 cm
80 cm
70 cm
60 cm
50 cm
40 cm
30 cm
20 cm
10 cm
± 0 cm
- 10 cm
- 20 cm
- 30 cm



Eyelet Insulator 19 mm

For 19 mm Ø posts

For polywire and rope
251515 (qty 25)

For polytape
251525 (qty 25)

TwistFix Plastic Post

Robust plastic post with special wire holders for quick and protective wire attachment, 8 holders for polywire and polytape up to 12.5 mm or 4 holders for tape up to 40 mm, 1.05 m long, fence height 0.85 m, white

163410 (qty 10)

Holder for polywires and polytapes up to 12 mm

Holder for polytapes up to 40 mm

Solid step

Plastic Post Ø 19 mm, round

White, robust, fully insulating plastic post with steel spike, without insulators

1.06 m, single spike (fence height 85 cm)
241482 (qty 10)

1.46 m, double spike (fence height 125 cm)
241492 (qty 10)

1.71 m, double spike (fence height 150 cm)
241502 (qty 10)

150 cm
140 cm
130 cm
120 cm
110 cm
100 cm
90 cm
80 cm
70 cm
60 cm
50 cm
40 cm
30 cm
20 cm
10 cm
± 0 cm
- 10 cm
- 20 cm
- 30 cm

Oval Fibreglass Post, metal spike

Made of fibreglass reinforced polyester resin of nearly unlimited life span (10 x 8 mm), glued in step and metal spike, with 2 insulators each

1.10 m (fence height: approx. 90 cm)
111520 (qty 10)

1.60 m (fence height: approx. 135 cm)
116020 (qty 10)

Insulator for fibreglass post, stainless steel

For an easy mounting of small sized polytapes or polywires to round fibreglass posts

for fibreglass post Ø 10 mm
113100 (qty 25)

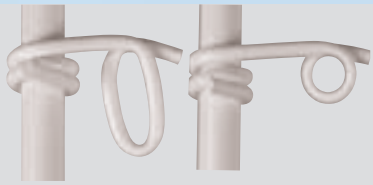
for fibreglass post Ø 12 mm
113200 (qty 25)

Oval Fibreglass Post, fibreglass tip

Made of fibreglass reinforced polyester resin of nearly unlimited life span (10 x 8 mm), continuous fibreglass profile with integrated plastic step and tip, with 2 insulators each

1.10 m (fence height: approx. 90 cm)
111540 (qty 10)

1.60 m (fence height: approx. 135 cm)
116040 (qty 10)



Eyelet Insulator 10 mm

for posts Ø 10 mm

For polywire and rope
251825 (qty 25)

For polytape
251925 (qty 25)

Eyelet Insulator 12 mm

for posts Ø 12 mm

For polywire and rope
251625 (qty 25)
251660 (qty 150)

Add-On Insulator for oval fibreglass post

UV-resistant, solid plastic insulator, black, clamps on oval fibreglass post, for polywire, polyrope and polytape up to 13 mm

(qty 25)
165225

Fibreglass Post Ø 10 mm

Made of fibreglass strengthened polyester resin of nearly unlimited life span, glued on step, pointed tip, Ø 10 mm

1.15 m (fence height 90 cm)
111510 (qty 10)

1.60 m (fence height 135 cm)
116010 (qty 10)

Polyrope/Polytape Insulator

Metric thread M6
For angle steel post, tapes up to 20 mm and rope

(qty 25)
127225

Ring Insulator

With split-pin
For angle steel post, black

(qty 25)
107325

(bucket qty 125)
107363

Angle Steel Post

Welded step, strengthened at top (2mm only), painted red

107010	**2 mm**	**1.15 m**	**(qty 10)**
107110	**3 mm**	**1.20 m**	**(qty 10)**
107210	**3 mm**	**1.50 m**	**(qty 10)**

Fibreglass Post Ø 12 mm

Made of fibreglass strengthened polyester resin of nearly unlimited life span, pointed tip

1.15 m (Fence height 0.90 cm)
111530 (qty 10)

1.60 m (Fence height 1.35 m)
116030 (qty 10)

150 cm
140 cm
130 cm
120 cm
110 cm
100 cm
90 cm
80 cm
70 cm
60 cm
50 cm
40 cm
30 cm
20 cm
10 cm
± 0 cm
- 10 cm
- 20 cm
- 30 cm

Spring Steel Post

100 cm long, (fence height 80 cm), oval (10 x 5.5 mm), painted red

① **With top ring insulator**
106000

② **With top metal pigtail insulator**
106400

③ **With top plastic pigtail insulator**
106300

Spring Steel Post, round

100 cm long (fence height 80 cm), round (Ø 7.5 mm), painted red

④ **With top ring insulator**
106100

⑤ **With top metal pigtail insulator**
106700

⑥ **With top plastic pigtail insulator**
106200

Spare Top Metal Pigtail Insulator

For steel posts, oval
1064025 (qty 25)

For steel posts, round
1067025 (qty 25)

Spare Top Ring Insulator

For steel posts, oval
1060025 (qty 25)

For steel posts, round
1061025 (qty 25)

Spare Top Plastic Pigtail Insulator

For spring steel post, round
1062025 (qty 25)

For spring steel post, oval
1063025 (qty 25)

Spring Steel Posts

Steel posts have the advantage that they are equally sturdy at all temperatures. Even at the lowest temperatures there is no danger of breakage. They are suitable for all year round use.

Place the polywire in the holder

Turn the post through 90° - the polywire is fixed

NEW

Add-on insulator for spring steel post

For polywire and tape up to 12,5 mm

For steel posts, oval
168525 (qty 25)

For spring steel posts round and spring steel post with pigtail insulator
168625 (qty 25)

TwistFix Spring Steel Post

Round (Ø 7 mm), powder-coated, extremely durable welded-on step, pre-pressed positions for secure attachment of insulators

1.13 m (fence height 90 cm)
with 2 insulators for polywire, polyrope and polytape up to 12.5 mm
164110 (qty 10)

Spring Steel Post with Pigtail Insulator

1.07 m long, round, Ø 7 mm, double welded-on step with tread plate, pointed, large pigtail insulator; fence height 0.86 m

164220 (qty 10)

NEW

Add-on insulator

For TwistFix post 164110

For polywire, polyrope and polytape up to 12,5 mm

165920 (qty 20)

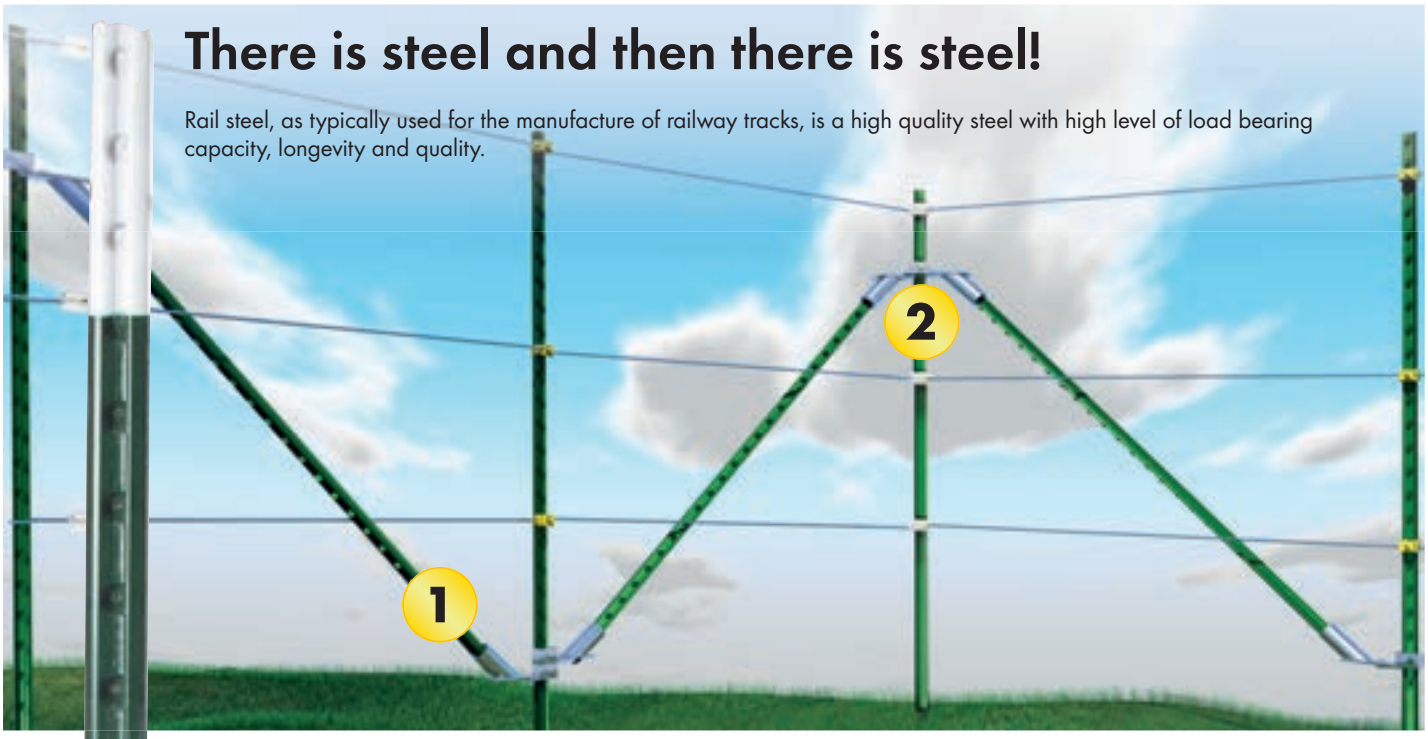
Pre-pressed positions for insulators

Solid, double welded-on step

150 cm
140 cm
130 cm
120 cm
110 cm
100 cm
90 cm
80 cm
70 cm
60 cm
50 cm
40 cm
30 cm
20 cm
10 cm
± 0 cm
- 10 cm
- 20 cm
- 30 cm

There is steel and then there is steel!

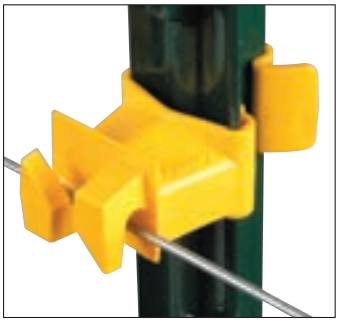
Rail steel, as typically used for the manufacture of railway tracks, is a high quality steel with high level of load bearing capacity, longevity and quality.



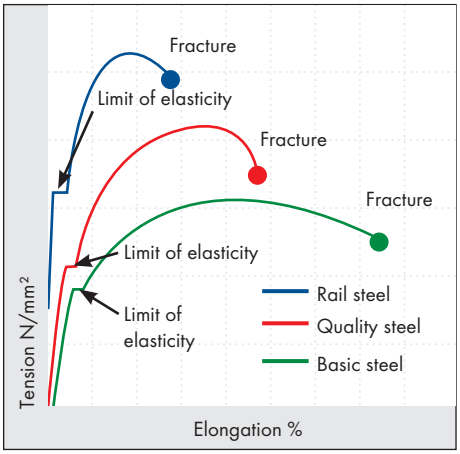
T-Posts

The original American T-Post is made of recycled, high quality, hot rolled rail steel. It is extremely robust and long-lived. Every 55 mm along the length there are large studs that securely set the height of the insulators. T-Posts are driven into the ground at least to the upper edge of the base plate. There are several different insulators available for the attachment of wire, rope or tape. For better weather protection, the post is painted.

Robust, long-lived T-profile



Large retaining studs for insulators



Tension-elongation diagram for various steels

Rail steel is one of the types of steel of which the greatest demands can be made. Rail steel has the highest level of stiffness, and absorbs the heaviest load with minimal deformation.

1

T-Post - Starter Set

Starter set, consisting of: 2 x 60° sleeves, 2 straight brackets (Posts and insulators are not included)

172800

2

T-Post - 90° Corner Set

90° Corner set, consisting of: 4 x 60° sleeves, 1 corner bracket, 2 straight brackets (posts and insulators are not included)

172700

T-Post, painted

Robust post of recycled steel: painted green, with solid base plate, 5 lengths

171500 1.52 m max. fence height 1.12 m / 3.1 kg
171600 1.67 m max. fence height 1.27 m / 3.4 kg
171800 1.82 m max. fence height 1.42 m / 3.7 kg
172100 2.13 m max. fence height 1.73 m / 4.3 kg
172400 2.40 m max. fence height 2.00 m / 4.6 kg

Special offer: complete pallets qty 200 = 1 pallet

171504 1.52 m
171604 1.67 m
171804 1.82 m
172104 2.13 m
172404 2.40 m

Rammer

① **For T-Posts,**
solid round tubing, hot-dip galvanised

153600

② **For T-Posts, with handles**
Solid round tubing with 2 handles, ideal for guiding T-Posts when driving in, hot-dip galvanised

153400

Post Extractor

For easy extraction of T-Posts

153700

Insulators for T-Posts

Cap Insulator

For T-Posts and Y-Posts
For tapes up to 40 mm, ropes and polywires, protects against injuries from sharp, jagged post tops

171210	**black**	**(qty 10)**
171270	**black**	**(qty 200)**
173210	**yellow**	**(qty 10)**
173270	**yellow**	**(qty 200)**

XL-Insulator with pin

For T-Posts
For wire, polywire rope and HippoWire, with pin for easy fastening and releasing of the wire

174125	**black**	**(qty 25)**
174190	**black**	**(qty 500)**

Standard Insulator

For T-Posts
For wire, polywire and rope

173325	**black**	**(qty 25)**
173390	**black**	**(qty 500)**
171325	**yellow**	**(qty 25)**
171390	**yellow**	**(qty 500)**

Ring Insulator

For T-Posts
For wire, polywire and rope

174325	**black**	**(qty 25)**
174225	**yellow**	**(qty 25)**

Standard Pinlock Insulator

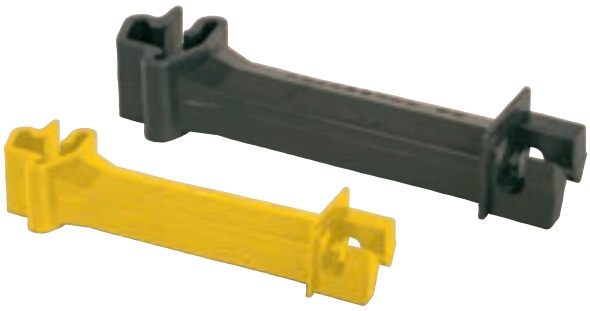
For T-Posts
For wire, polywire and rope, with pin for easy fastening and releasing of the wire

174050	**black**	**(qty 25)**
174055	**black**	**(qty 500)**
174025	**yellow**	**(qty 25)**
174030	**yellow**	**(qty 500)**

Polytape Insulator

For T-Posts
For polytape up to 40 mm

173125	**black**	**(qty 25)**
173190	**black**	**(qty 500)**
171125	**yellow**	**(qty 25)**
171190	**yellow**	**(qty 500)**



Offset Insulator

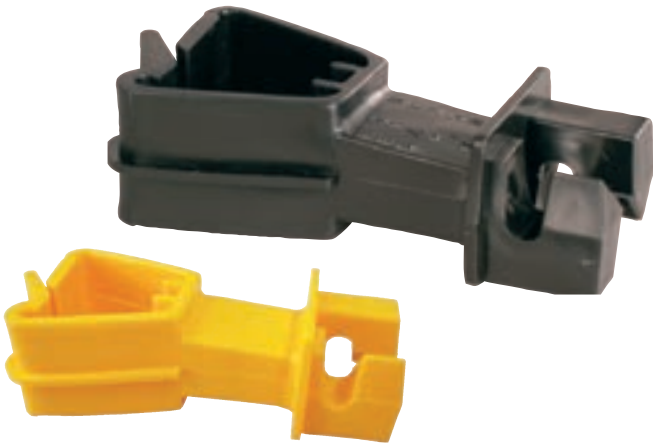
For T-Posts
For wire, polywire and rope, offset dimension 125 mm

173625	**black**	**(qty 25)**
173725	**yellow**	**(qty 25)**

Polytape Offset Insulator

For T-posts
For polytape up to 40 mm, offset dimension 125 mm

173870	**black**	**(qty 20)**
173820	**yellow**	**(qty 20)**



Standard Insulator

For rear of T-Posts
For wire, polywire and rope, mounted on the rear of the T-Post, especially in combination with the T-Post offset insulator, for double-row dividing fences

173425	**black**	**(qty 25)**
173525	**yellow**	**(qty 25)**

Fastening Clips

For T-Posts
To attach non-electrified wires directly to T-Posts

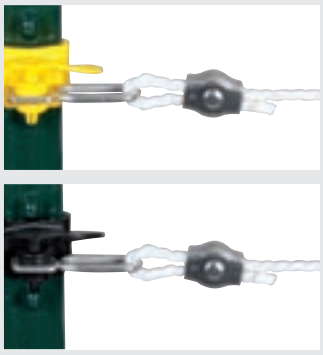
172525 (qty 25)

Corner installation on T-Posts

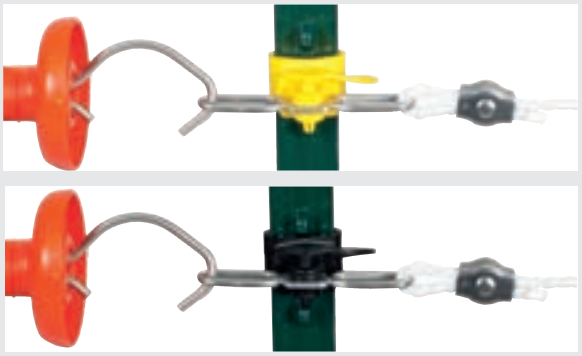
As corner posts for fences with T-Posts we recommend the use of robinia posts or pressure-impregnated wooden posts with the appropriate insulators for polywire, polyrope or polytape. If T-Posts are used as corner posts, we recommend a corner structure with our corner or starter set. The appropriate insulators are fastened to it, see below.

Corners for polyrope and polywire fences

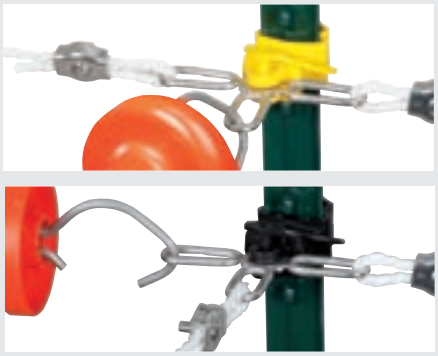
For polyrope and polywire fences we recommend the use of our XL insulator (ref. 174125) and/or our standard pinlock insulator (ref. 174050 and 174025). Connector lugs with 1, 2 or 3 loops are fastened to it.



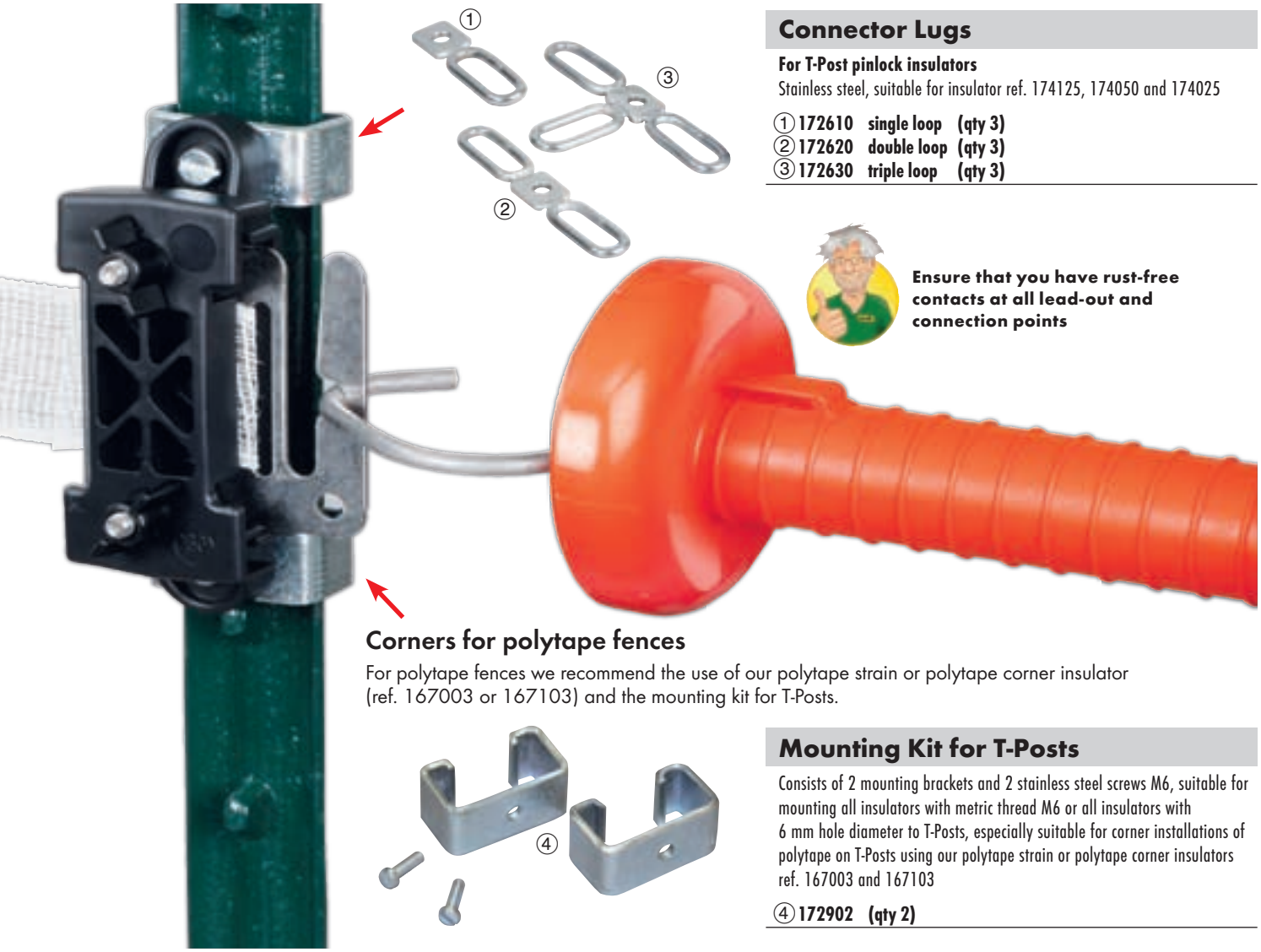
Starter installation with single loop connector lug for polyrope or polywire



Starter installation with double loop connector lug for polyrope or polywire and hook-up facility for gate handle (also possible 2 x polyrope or 2 gate handles)



Installation with triple loop connector lug for attachment of 2 polyropes or polywires and hook-up facility for gate handle (also possible 3 x polyrope or 1 x polyrope and 2 gate handles)



Connector Lugs

For T-Post pinlock insulators
Stainless steel, suitable for insulator ref. 174125, 174050 and 174025

① **172610 single loop (qty 3)**
② **172620 double loop (qty 3)**
③ **172630 triple loop (qty 3)**

Ensure that you have rust-free contacts at all lead-out and connection points

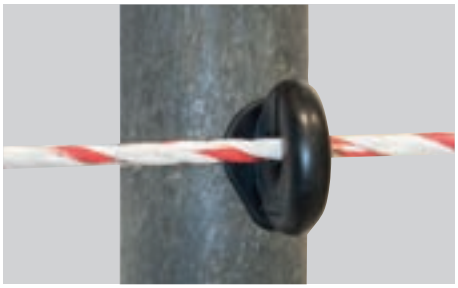
Corners for polytape fences

For polytape fences we recommend the use of our polytape strain or polytape corner insulator (ref. 167003 or 167103) and the mounting kit for T-Posts.

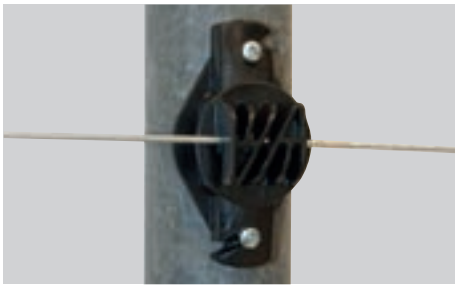
Mounting Kit for T-Posts

Consists of 2 mounting brackets and 2 stainless steel screws M6, suitable for mounting all insulators with metric thread M6 or all insulators with 6 mm hole diameter to T-Posts, especially suitable for corner installations of polytape on T-Posts using our polytape strain or polytape corner insulators ref. 167003 and 167103

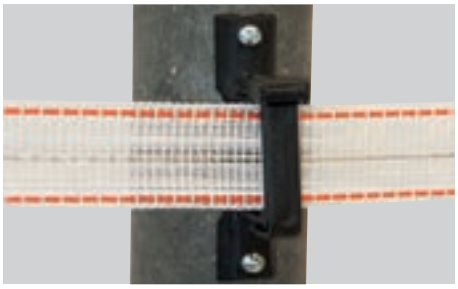
④ **172902 (qty 2)**



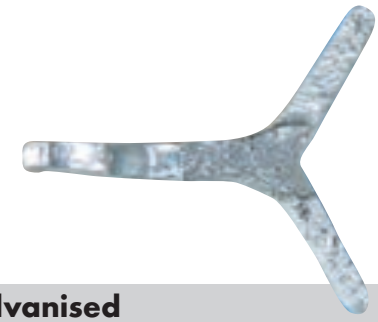
Rope fixation with ring insulators or insulators for permanent fence



Wire fixation with insulators for permanent fence which allows direct mounting to the post.



Tape attachment with polytape line insulators which can be screwed directly to the post.



Y-Posts, hot-dip galvanised

Sturdy post of hot-dip galvanised Y-steel sections, with pre-drilled holes for insulators, for typical wire spacings, pointed

2 lengths:

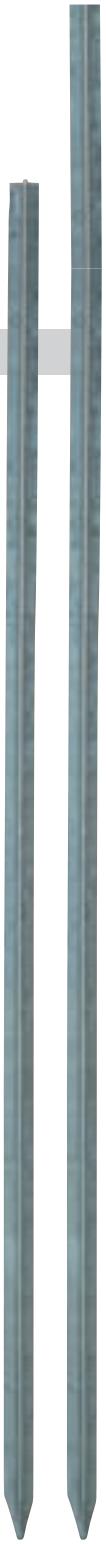
l = 1.50 m/weight: 3.1 kg
l = 1.80 m/weight: 3.7 kg

171400 1.50 m
171401 1.80 m

Special offer: complete pallets qty 200 = 1 pallet

171440 1.50 m
171441 1.80 m

200



Insulator with Pin

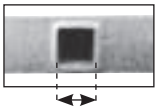
For Y-Post, for wires and polywires

166725 (qty 25)

Rammer

For hardwood posts 40 x 40 mm and Y-Posts
Made of square tubing, 2 guide handles, for easy driving-in of hardwood posts and Y-Posts

532000 0.94 m



☐ 50 mm

100 % recycled plastic material

214000 214100 214200

300 250 60

Recycled Plastic Post

Made of highest quality recycled plastic; UV-resistant; high breaking strength; resistant to oils, leaches, acids and microogranisms; can be drilled, screwed, nailed and sawn like wood

round, pointed
1.50 m, ∅ 4.5 cm
214000 (qty 1)

1.75 m, ∅ 6.0 cm
214100 (qty 1)

2.00 m, ∅ 8.0 cm
214200 (qty 1)

PATURA hardwood post – the self-insulating wooden post

PATURA hardwood is a hardwood that possesses full electrical insulation qualities. This special hardwood has been used successfully for over 25 years in electric fence construction. It is the basis for electric fences without insulators. It is a natural product that is very durable in the ground without the need for poisonous impregnation measures. And for the future, PATURA hardwood will avoid the environmental disposal problems that (e.g.) most impregnated wooden posts or recycled plastic posts have.

PATURA hardwood posts, the proven alternative. The secure and durable wire attachment using pre-formed wire clips, in combination with the insulating PATURA hardwood, allows an electric fence without insulators. Problems with defective insulators are a thing of the past.

Rammer

For hardwood posts 40 x 40 mm and Y-Posts
Made of square tubing, 2 guide handles, for easy driving-in of hardwood posts and Y-Posts

0.94 m
532000

1.09 m
531000

For hardwood posts 50 x 50 mm
Made of square tubing with 2 guide handles

1.24 m
534000

Hardwood Post

Insulating hardwood posts for an electric fence without insulators, not impregnated but extremely durable

1.35 m (38 x 26 mm)
175900
1.35 m (38 x 38 mm)
175400

1.50 m (38 x 38 mm)
176000

1.80 m (38 x 38 mm)
177200

2.10 m (50 x 50 mm)
178400

10 pcs. 175900 176000 175400 177200

4 pcs. 178400

Hardwood Dropper

25 pcs.

Characteristics as hardwood posts, the droppers rest on the ground and serve as spacer for the wires

0.94 m (38 x 26 mm)
176100

1.09 m (38 x 26 mm)
176700

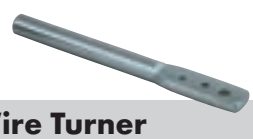
1.24 m (38 x 26 mm)
177300

1.54 m (38 x 26 mm)
178500

Drive Cap

For driving in hardwood posts with a hammer

For posts 40 x 40 mm
530000



Wire Turner

For easy clip attachment

523000

Tie Clip

For wire and rope attachment on hardwood or X-profile posts

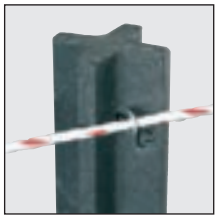
Clips long
170260 (qty 100)

Clips short
170560 (qty 100)

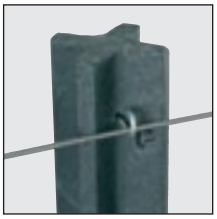
10 year WARRANTY

X-Profile Post: the ideal line post

The electric fence's line posts serve mainly to carry the fence wiring and adjust its height. Posts on permanent fences should have a long life span. The X-profile post is particularly suitable for it.
Tip: When the ground is very shallow, stony, or very hard we recommend to use our hardwood posts or T-Posts that can be driven into the ground easier under above mentioned circumstances.



Rope attachment with clips



Wire attachment with clips

Tape attachment with polytape line insulators which can be screwed directly to the post without pre-drilling

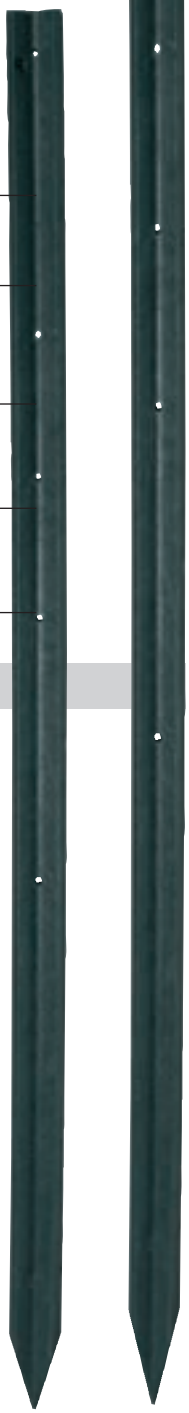
X-profile 70 x 70 mm for optimum stability

100 % recycled plastic material

Pre-drilled holes for standard wire spacing

100 % insulating – no insulators necessary

Resistant to acids, salts, water and frost

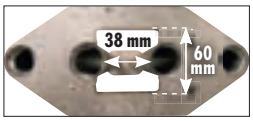


Polytape Insulator

Solid plastic
Suitable as line insulator for all polytapes up to 40 mm, separate holder for rope
166825 (qty 25)

Special Wood Screws

4.5 x 35 mm, torx
Galvanised, with special thread, for the attachment of permanent fence and polytape insulators, incl. 1 screw bit
135060 (qty 100)



Rammer

For X-profile posts
with 2 guide handles, 1.00 m
153500

X-Profile Post

High quality recycled plastic post, pointed, ground water neutral, resistant to acids, salts, water and frost, UV-resistant and rot-proof, with drill-holes for tie clips, rugged X-profile 70 x 70 mm

215000 1.50 m
218500 1.85 m

Qty 120 = 1 pallet
215065 1.50 m
218565 1.85 m

120

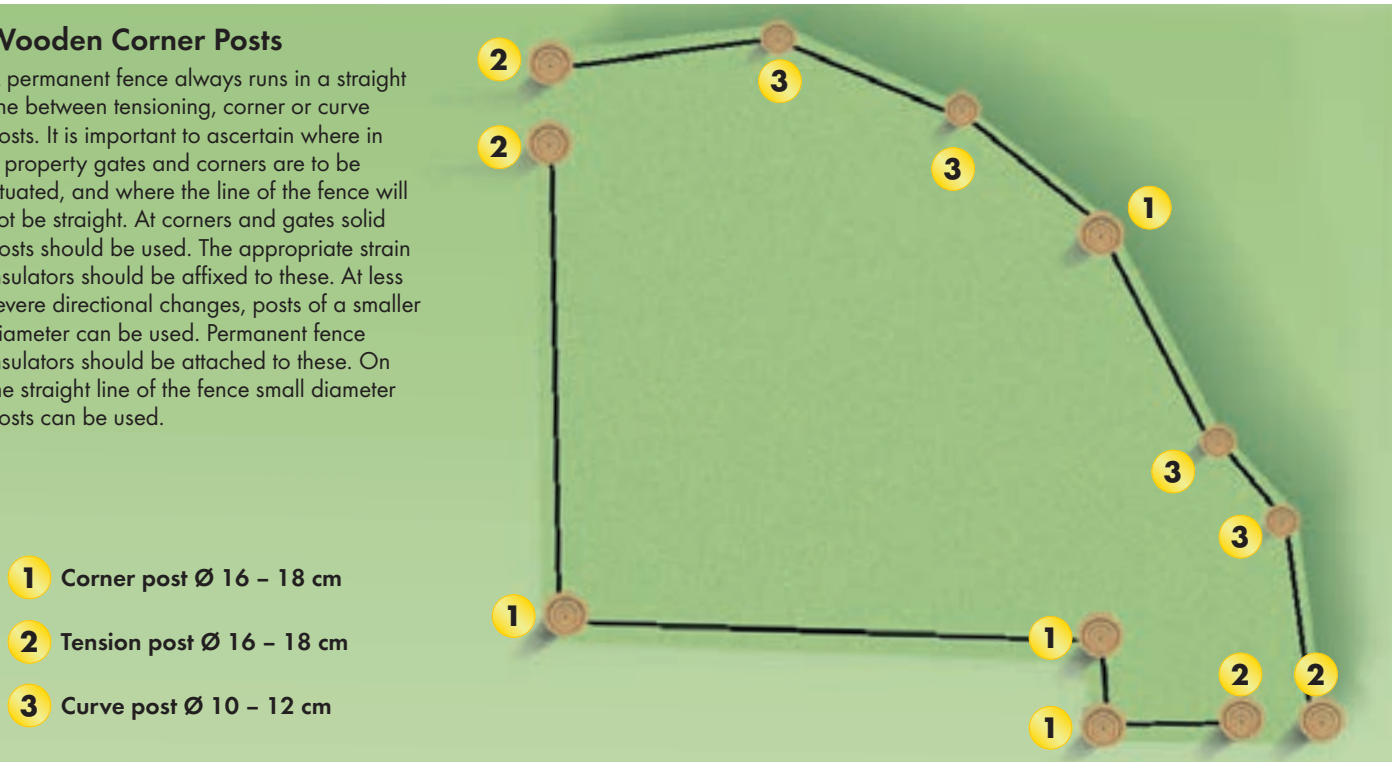
Tie Clip

For wire attachment on X-profile posts

Clips short
170560 (qty 100)

Wooden Corner Posts

A permanent fence always runs in a straight line between tensioning, corner or curve posts. It is important to ascertain where in a property gates and corners are to be situated, and where the line of the fence will not be straight. At corners and gates solid posts should be used. The appropriate strain insulators should be affixed to these. At less severe directional changes, posts of a smaller diameter can be used. Permanent fence insulators should be attached to these. On the straight line of the fence small diameter posts can be used.



1 Corner post Ø 16 – 18 cm

2 Tension post Ø 16 – 18 cm

3 Curve post Ø 10 – 12 cm

Plan view of a permanent fence paddock area with an indication of the corner posts to be used.

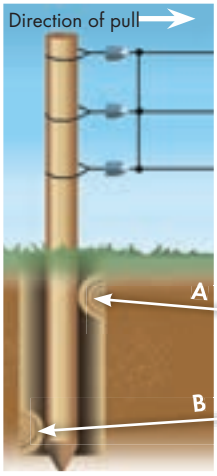
Corner posts for temporary and permanent fences

Posts at the beginning and in the corners of fences, as well as in curves and at gates, have the role of absorbing the tensions in the fence, and supporting it with respect to the ground. For permanent fences, especially those using steel wire, solid wooden posts are used. For temporary fences corner posts should be easy to anchor into the ground, yet still be able to take up the tensions of the polywires, ropes or tapes. Metal corner posts of galvanised angle iron are well suited to that role.

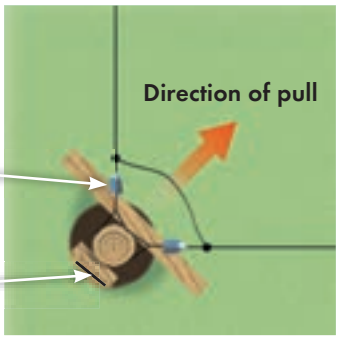
10 year warranty

We offer pressure-impregnated posts with a 10 year warranty. The posts carry the RAL mark of quality for impregnated wooden construction elements. The wood preservative used meets the DIN 68800-3 standard. By means of unique perforations in the above/below ground interface, the wood preservative reaches deep into the wood in this area. This ensures that in this critical part in particular the wood is optimally protected against rotting. All posts are stripped, chamfered and pointed by machine.

For a corner post, the direction of pull is the bisection of the angle formed by the two fence lines.



The corner post of a fence installation is twice as long as the fence is high



Plan view of the construction of the corner of a permanent fence: note the position of the cross-beam

Corner and tension posts - basic rules:

1. Sturdy start, corner, end and gate posts are prerequisites for the stability of a permanent fence.
2. Corner and tension posts should have a minimum diameter of 16 cm.
3. Tension and corner posts should be placed at least 1 m in the ground.
4. At right angles to the direction of pull a cross-beam (A) should be dug in about 10 cm under the surface.
5. At the bottom, on the side away from the direction of pull, a piece of wood or a stone (B) should be placed to act as abutment.

Metal Corner Post Super

Made of sturdy, hot-dip galvanised angle iron, with 3 spikes and pre-drilled holes for corner insulators such as corner donut insulators and ring insulators

Short: for fences up to 0.85 m
104500

Long: for fences up to 1.35 m
104600

Corner Donut Insulator

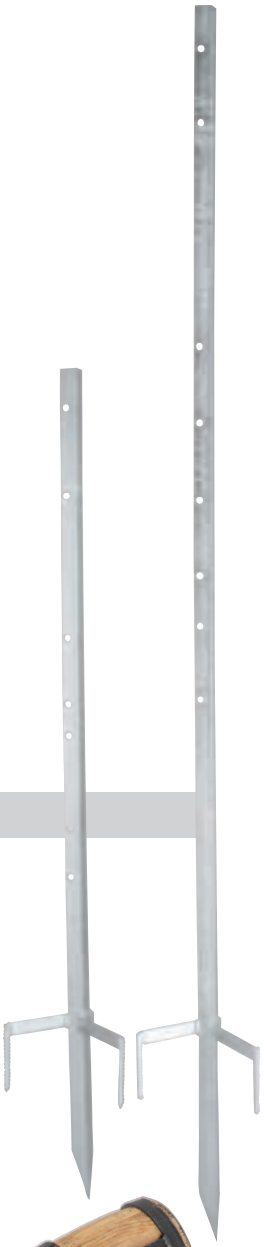
With metric thread M8
Redirection of polywires at corners without chafing

104206 (qty 6)

Quality Ring Insulator

Thread M6
High quality plastic, solid shaft attachment, large drip zones, shaft diameter 6 mm, black

102425 (qty 25)



NEW

Mallet

6 kg, with ergonomic handle; for driving-in wooden posts, X-profile posts and recycled posts

Mallet
153200

Spare handle
15320001

Wooden Post

Pressure-impregnated with chrome free wood preservative KS-M salts to the RAL quality standard as per DIN 68800-3, stripped, pointed and chamfered

Diameter 16 – 18 cm
Ideal as corner, tension and gate posts in permanent fences
Perforated in the above/below ground interface, 10-year warranty

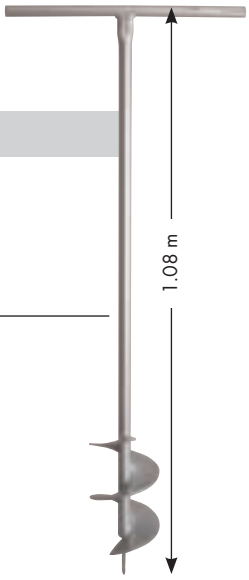
200000 2.00 m
225000 2.25 m
250000 2.50 m
275000 2.75 m

Diameter 10 cm
Ideal as posts in a permanent fence system where there is slight change in fence direction

175150 1.75 m
200150 2.00 m
225150 2.25 m
250150 2.50 m

Diameter 7 cm
Ideal as posts in straight sections of a permanent fence system

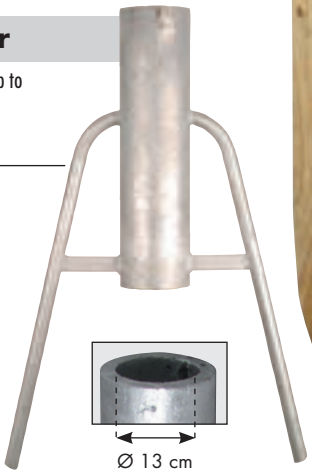
174950 1.50 m
175050 1.75 m



Hand Borer

For easy hole boring by hand
Ø 9 cm
153800

Ø 15 cm
153900



Hand Rammer

For driving in wooden posts up to Ø 12 cm by hand

153300

Robinia Posts - strength by nature!

You are looking for a wooden post, that is hard, elastic and more durable than oak and needs no chemical treatment?
Our answer to this questions is clear: That's why we use PATURA Robinia Posts!
The wood of the Robinia convinces with many properties: is heavy and hard, accordingly it has good strength values that clearly exceed those of the oak, as well as a high strength during dynamic requirements. Another advantage is the extremely strong heartwood which has high resistance against fungus and bugs by nature. Robinia Wood (Robinia pseudoacacia), native to North America, grows in Europe sinces some decades as well. Additionally the robinia is naturally resistant to some pests and this often provides the best protection possible - without the use of chemicals.
The natural, lightly curved shape of the posts are both, visually attractive and unique. It reflects them as a natural, rustic post.

Robinia Line Posts

Line posts serve mainly to carry the fence wiring and adjust its height. We offer a selection of the most important fence systems and we help you to find the right system for your animals and for your needs.

Robinia Post, square

sawed, chamfered,
4-sides sharpened, rough-cut

1.50 m (6 x 6 cm)
219100

2.00 m (8 x 8 cm)
219101

IDEAL for horses!

300
150

6 x 6 cm
8 x 8 cm

Robinia Post, natural growth

ø 6 - 8 cm, splitted, chamfered,
4-sides sharpened, planed, sanded

1.50 m
219105

2.00 m
219106

IDEAL for horses!

200

Ø 6 – 8 cm

Robinia Post, splitted into halves

ø 13 - 15 cm, chamfered, 3-sides sharpened, debarked

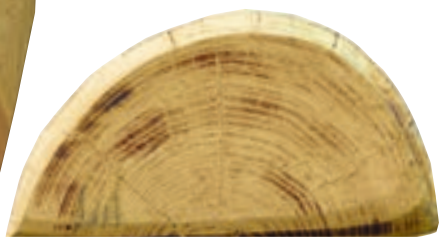
1.50 m
219115

1.80 m
219116

2.25 m
219117

100

Ø 13 – 15 cm



Robinia Corner Post

Posts at the beginning and corners of a fence, as well as in curves and at gates, have the role of absorbing the tension in the fence, and supporting it with respect to the ground. At corners and gates solid posts should be used, they are the main component for a durable and longlasting electric fening system. For this reason we offer a 10 years warranty on the quality of our Robinia Posts for corners and angles. For smaller changes of direction the Robinia curve posts are an ideal-fit.

Natural product with a high level of stabiliy and durability

Eco-friendly without impregnation

Robinia Curve Post

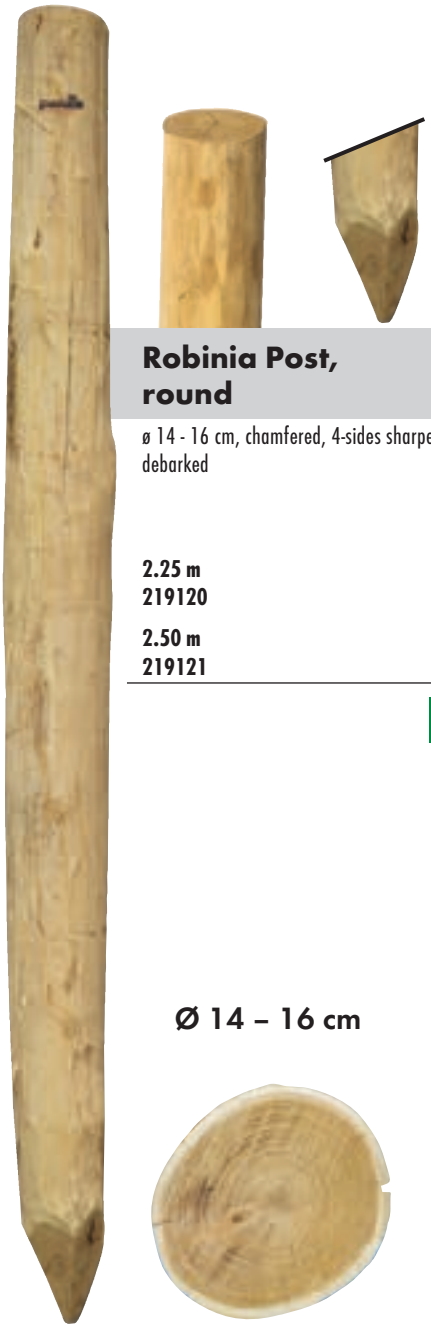
Ø 10 - 12 cm, chamfered, 4-sides sharpened, debarked

2.00 m
219122

2.50 m
219123

70

Ø 10 – 12 cm



Robinia Post, round

ø 14 - 16 cm, chamfered, 4-sides sharpened, debarked

2.25 m
219120

2.50 m
219121

30

Ø 14 – 16 cm

Robinia Post, round

ø 16 - 18 cm, sanded, chamfered, 4-sides sharpened, planed

2.25 m
219110

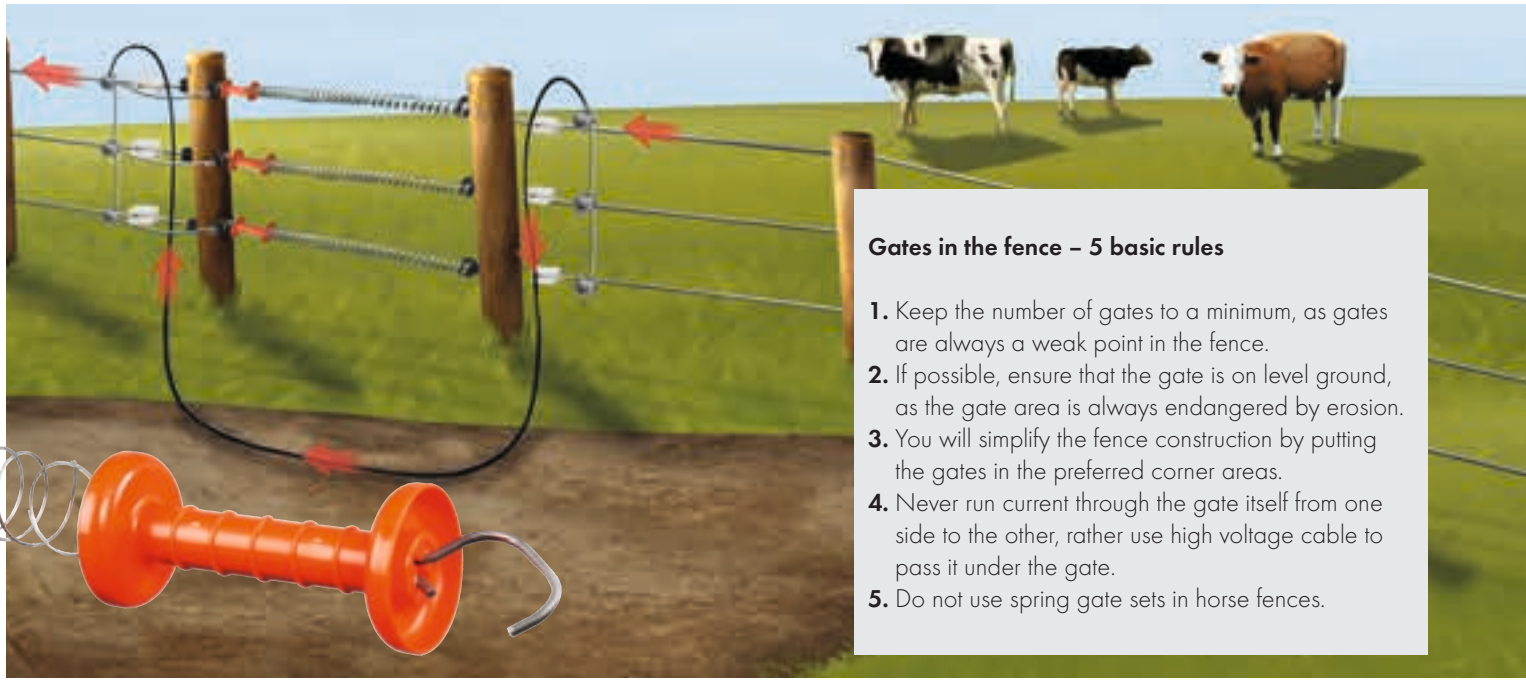
2.50 m
219111

2.75 m
219112

IDEAL for horses!

25

Ø 16 – 18 cm



Gates in the fence – 5 basic rules

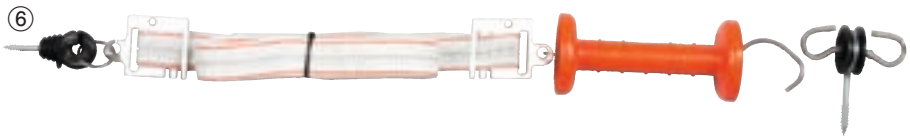
1. Keep the number of gates to a minimum, as gates are always a weak point in the fence.
2. If possible, ensure that the gate is on level ground, as the gate area is always endangered by erosion.
3. You will simplify the fence construction by putting the gates in the preferred corner areas.
4. Never run current through the gate itself from one side to the other, rather use high voltage cable to pass it under the gate.
5. Do not use spring gate sets in horse fences.

As many gates as you need ... but as few as possible

Gates in fences are necessary to allow unhindered access to fenced-in areas, as well as for herding animals in and out. Gates often constitute a weak point in a fence - which is why special care is needed in their construction.

Do NOT use for horses!

IDEAL for horses!



Spring gate set – the practical gate

A spring gate set consists of 4 parts: the gate handle, gate handle insulator, gate spring and the insulator for attaching the spring. PATURA spring gate sets contain an especially large spring and are suitable for all gate widths from 3 to 5 metres. In the opened condition the spring carries no current, contracts to about 25 cm and hangs down, with the handle, from the gate post. To shut the gate, the gate handle and spring are attached to the gate insulator on the other side of the gate. This allows the current to run inside the handle and through the spring.

Practical tip: Use at least one Gate Set with ultra white spring for improved visability

Spring Gate Set

The practical gate; extends up to 5 m; complete with 1 (ea) gate handle, spring, gate handle insulator and ring insulator

① 164001	Standard
② 640001	Stainless steel, with stainless steel gate handle and gate handle insulator
③ 640010	Stainless steel with gate handle and 3-way gate handle insulator
④ 640100	Ultra white, with stainless steel gate handle and gate handle insulator

Polytape Gate Set

Each complete with gate handle, insulators and 3 m elastic, current conducting rope or 5 m polytape

⑤ 641201	with elastic rope
⑥ 641001	with polytape
⑦ 162225	Elastic Rope, 8 mm, 25 m

Electric Drive-Trough Gate - You can drive onto the pasture without getting out of your vehicle

With the electric drive-through gate it is possible to achieve easy access to frequently travelled entryways. Without an extra person it is possible to drive onto the pasture without the risk of animals escaping.

- **Set always consists of 2 rods and 2 hinges**
- **Flexible fibreglass rod covered with conductive rubber**
- **Insulated handle for manual operation**
- **The gate opens in both directions and closes automatically**
- **Can be locked in place while open**

Electric Drive-Through Gate

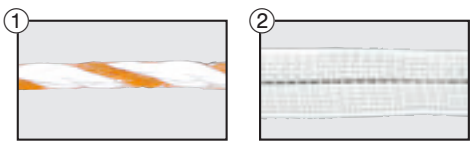
Consists of 2 conductive fibreglass rods, 2 hinges and insulated connecting cable;
the stated width corresponds to the road width.

641400 3.60 m
641410 5.00 m

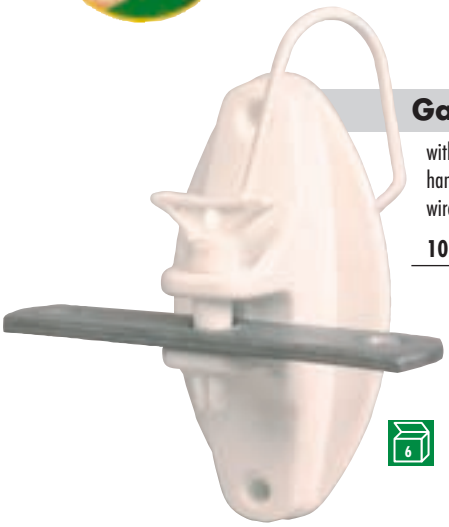
Retractable Roller Gate

For fast installation of flexible gates and partitions on pastures, drive paths, passage ways and paddocks. Rope or tape retract automatically and are protected inside the housing. Power can be conducted through the housing. Mounting parts and gate handle are included.

641301 6 m rope
641302 6 m tape 35 mm
641304 15 m rope
641305 15 m tape 35 mm



Practical tip:
„Ensure that you have rust-free contacts made of stainless steel or hot-dip material near gates“



Gate Handle Insulator 2-Way

with hot-dip galvanised plate for attachment of the gate handle on one side, and for the connection of the fence wire on the other side; 2 wood screws;

102304 (qty 4)

Gate Handle Insulator 3-Way

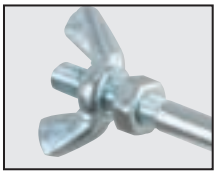
Hot-dip galvanised plate, connection bolt for high voltage cable and 2 wood screws

102604 (qty 4)

Gate Handle Insulator Standard

Black, wood thread, 2 eyelets

102504 (qty 4)



Gate Handle Insulator Stainless Steel

Black, wood thread, 2 stainless steel eyelets

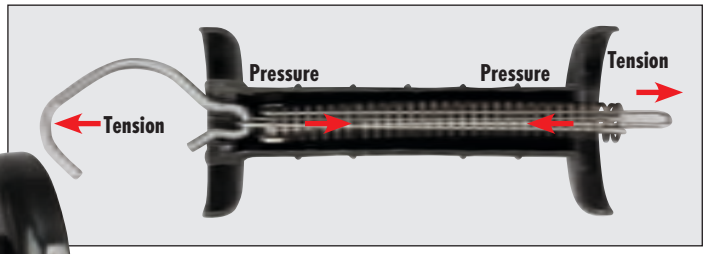
① **102704**

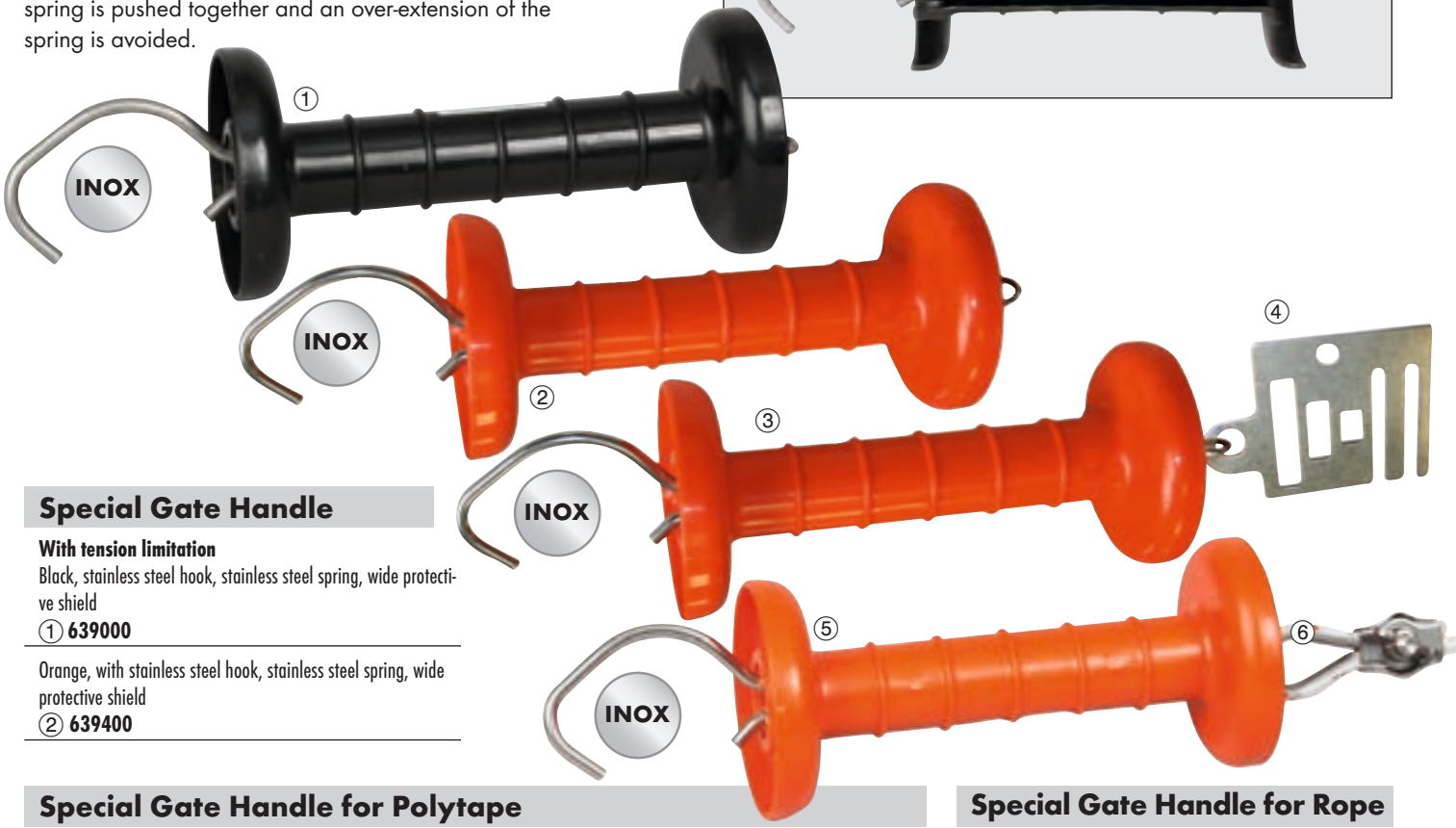
Stainless steel
Black, metric thread M6, 2 stainless steel eyelets

② **102804**

Tension-Limited Gate Handles with Stainless Steel Spring

Cross-section through the tension-limited gate handle: The tension on the gate handle is converted to a pressure on the spring, i.e., the spring is pushed together and an over-extension of the spring is avoided.





Special Gate Handle

With tension limitation
Black, stainless steel hook, stainless steel spring, wide protective shield
① **639000**

Orange, with stainless steel hook, stainless steel spring, wide protective shield
② **639400**

Special Gate Handle for Polytape

Special Gate Handle for polytape 10 - 20 mm
With additional stainless steel connector plate for polytapes 10 to 20 mm
639530 **Gate Handle Connector Plate up to 20 mm**
639543 **(qty 3)**

Special Gate Handle for Polytape up to 40 mm
With additional stainless steel connector plate for polytapes up to 40mm
③ **639500**
Gate Handle Connector Plate up to 40 mm
④ **639803** **(qty 3)**

Special Gate Handle for Rope

With additional, stainless steel rope thimble and rope clamp
⑤ **639550**

Gate Handle Connecting Kit for Rope
(stainless steel rope thimble and rope clamp)
⑥ **639563** **(qty 3)**

Gate Handle with Tension Limitation

⑦ **Eyelet**
639700
Eyelet, (qty 5)
639705

⑧ **Hook**
639600
Hook, (qty 5)
639605

Gate Handle with Tension Spring

⑨	**639200**	**Eyelet**	black
⑩	**639100**	**Hook**	black
⑩	**639110**	**Hook**	neon yellow
⑩	**639120**	**Hook**	blue
⑩	**639130**	**Hook**	pink
⑩	**639140**	**Hook**	neon green

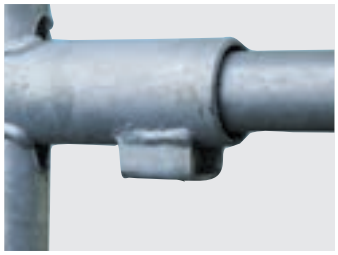
① Pasture gate 0.90 m high: The user-friendly gate for cattle pastures
② Pasture gate 0.90 m high: The lamb-save gate for sheep paddocks
③ Pasture gate 1.10 m high: The secure gate for horse paddocks

Adjustable Steel Pasture Gates

The safe and user-friendly access to your pasture:
- 6 models for widths from 1.00 to 6.00 m, each extendable by 1.00 m, with mounting kit for wooden posts
- Heavy duty steel tubing construction, with tube-in-tube adjustment, tube Ø 42.4 mm / 34 mm
- Height 0.90 or 1.10 m
- Clearance between tubes (0.90 m) 14 / 14 / 18 / 26 cm, clearance between tubes (1.10 m) 23 cm

Steel pasture gates with 7 advantages:

Advantage 1: completely hot-dip galvanised



Advantage 2: extendable

Advantage 3: lockable, padlock (optional extra)

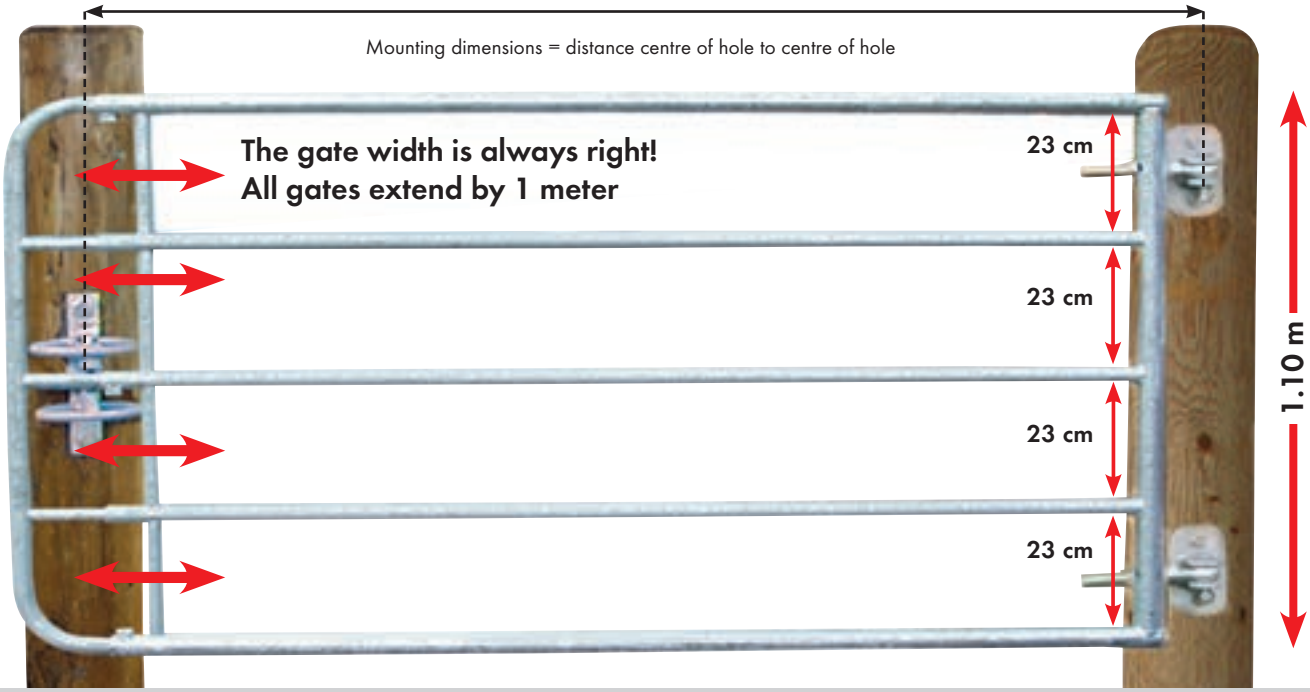
For frequently used gates and for highest safety we recommend using our steel pasture gates!

Advantage 4: rounded, auto-latch

Advantage 5: sleeve for secure fixture of eyebolts

Advantage 6: 2 solid, easily adjustable eyebolts

Advantage 7: electrification (optional extra)

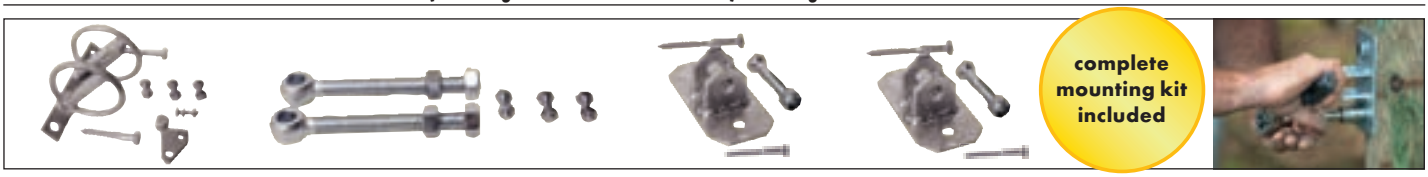


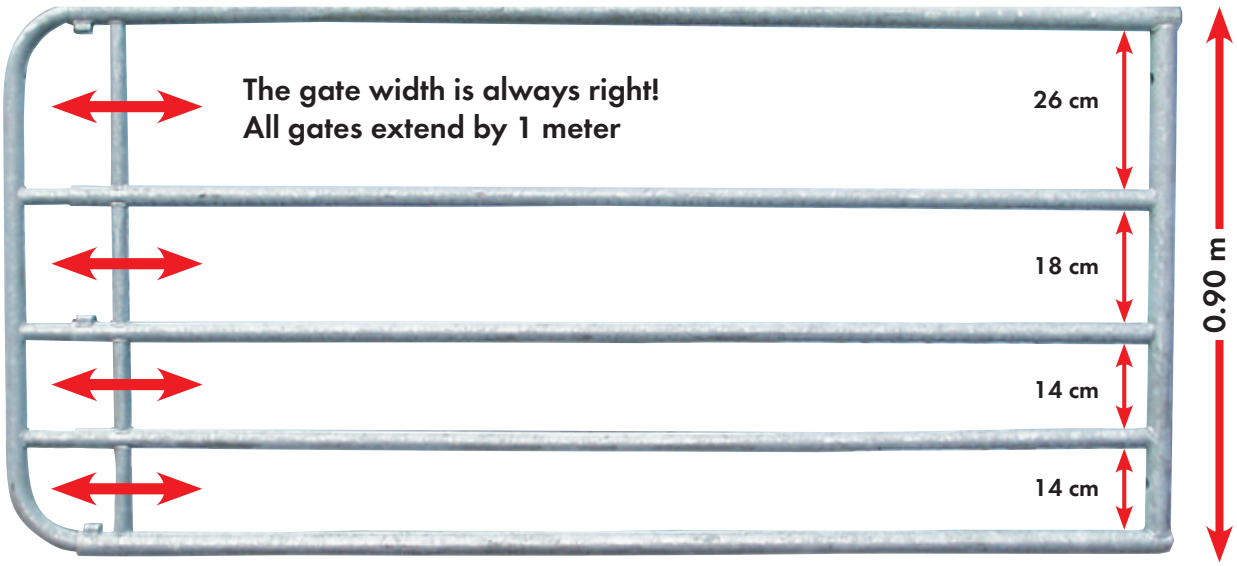
Pasture Gate, adjustable, height 1.10 m

Sturdy, hot-dip galvanised gate made of steel tubing, complete mounting kit included, extendable by 1 m, tube diameters: main frame 42.4 mm / main frame inner 34 mm / extension section frame 34 mm / extension section inner 27 mm, clearance between tubes 23 cm

For horses and cattle

410200	1.10 – 1.70 m	1 vertical brace (mounting dimensions: 1.00 - 1.60 m)	25 kg
410300	1.45 – 2.00 m	1 vertical brace (mounting dimensions: 1.35 - 1.90 m)	28 kg
420300	2.00 – 3.00 m	1 vertical brace (mounting dimensions: 1.90 - 2.90 m)	38 kg
430400	3.00 – 4.00 m	2 vertical braces (mounting dimensions: 2.90 - 3.90 m)	49 kg
440500	4.00 – 5.00 m	3 vertical braces (mounting dimensions: 3.90 - 4.80 m)	60 kg
450600	5.00 – 6.00 m	4 vertical braces (mounting dimensions: 4.80 - 5.80 m)	68 kg





Pasture Gate, adjustable, height 0.90 m

Sturdy, hot-dip galvanised gate made of steel tubing, complete mounting kit included, extendable by 1 m, tube diameters: main frame 42.4 mm / main frame inner 34 mm / extension section frame 34 mm / extension section inner 27 mm, clearance between tubes (bottom up) 14 cm / 14 cm / 18 cm / 26 cm

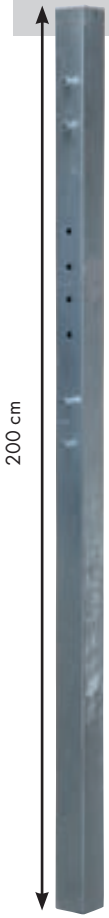
For cattle and sheep

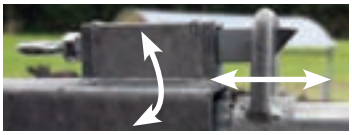
371020	1.10 - 1.70 m	1 vertical brace (mounting dimensions: 1.00 - 1.60 m)	24 kg
371030	1.45 - 2.00 m	1 vertical brace (mounting dimensions: 1.35 - 1.90 m)	26 kg
372030	2.00 – 3.00 m	1 vertical brace (mounting dimensions: 1.90 - 2.90 m)	36 kg
373040	3.00 – 4.00 m	2 vertical braces (mounting dimensions: 2.90 - 3.90 m)	47 kg
374050	4.00 – 5.00 m	3 vertical braces (mounting dimensions: 3.90 - 4.80 m)	58 kg
375060	5.00 - 6.00 m	4 vertical braces (mounting dimensions: 4.80 - 5.80 m)	66 kg

Metal Post for pasture gates

2000 x 80 x 80 mm, Pre-drilled; Incl. screws

240036





Drop-Over Frame for adjustable pasture gates

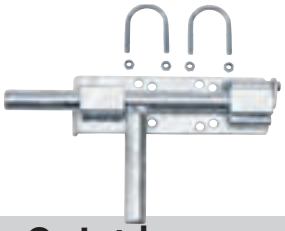
For setting up 2-wing gates Mounting to extension section only
(Not for pasture gates 5.00 - 6.00 m); For gates - max. overall width 8 m;
complete mounting kit included

240039

Drop-Over Frame for fixed pasture gates

For setting up 2-wing gates; For gates - max. overall width 8 m;
complete mounting kit included

240041



Screw-On Latch

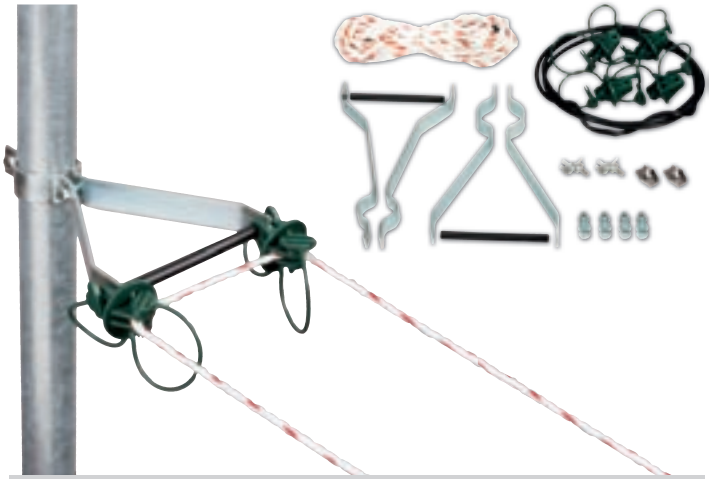
To let the pasture gates swing freely

323090

Auto-Latch

As extra or spare latch

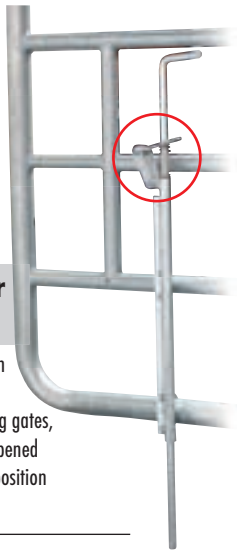
240038

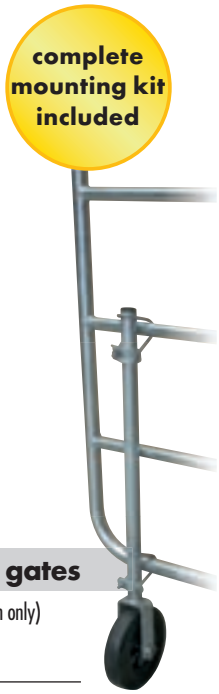


Offset Insulator Gate Set

Ideal for pulling an electrified wire either side before adjustable steel pasture gates; incl. all mounting hardware (with electric rope)

166300





Sure-Stop Gate Anchor for pasture gates

Allows the gate to be held in position even when it is open, especially recommended when installing 2-wing gates, guarantees that when one wing is opened the other wing stays in the desired position

240040

Support Wheel for adjustable pasture gates

For large gates, to reduce the strain on the posts (mounting to extension section only)

303452

Support Wheel for fixed pasture gates

For large gates, to reduce the strain on the posts

303456

Guard Rod For Gap

Reliably prevents animals – especially horses – from being caught in the gap between the hinged gate and the gate post, when jumping up. Guard rod including extension tubing and cotter pins

303419

German utility patent
DE 20 2007 001 487

For the safety of your horses

Socket Screw Set

Instead of standard screws

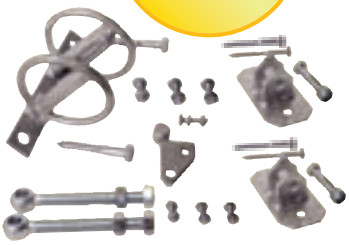
303414 (qty 5)

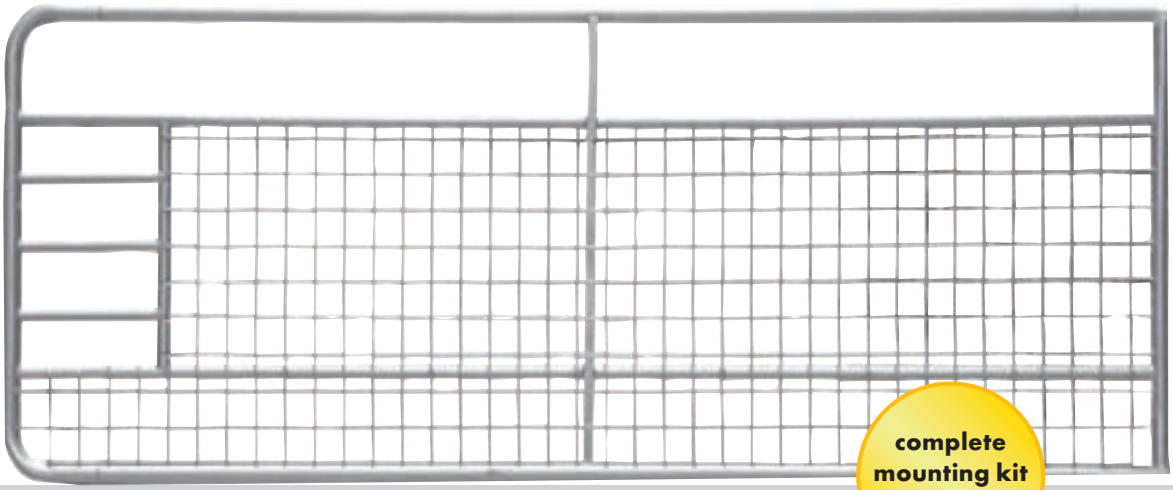
complete mounting kit included

Fixed Pasture Gate, height 1 m

Sturdy, hot-dip galvanised gate made of steel tubing, complete mounting kit included

451003	3.00 m	1 vertical brace	34 kg
451004	3.50 m	1 vertical brace	38 kg
451005	4.00 m	2 vertical braces	43 kg
451006	4.50 m	2 vertical braces	47 kg
451007	5.00 m	2 vertical braces	51 kg
451008	6.00 m	3 vertical braces	60 kg



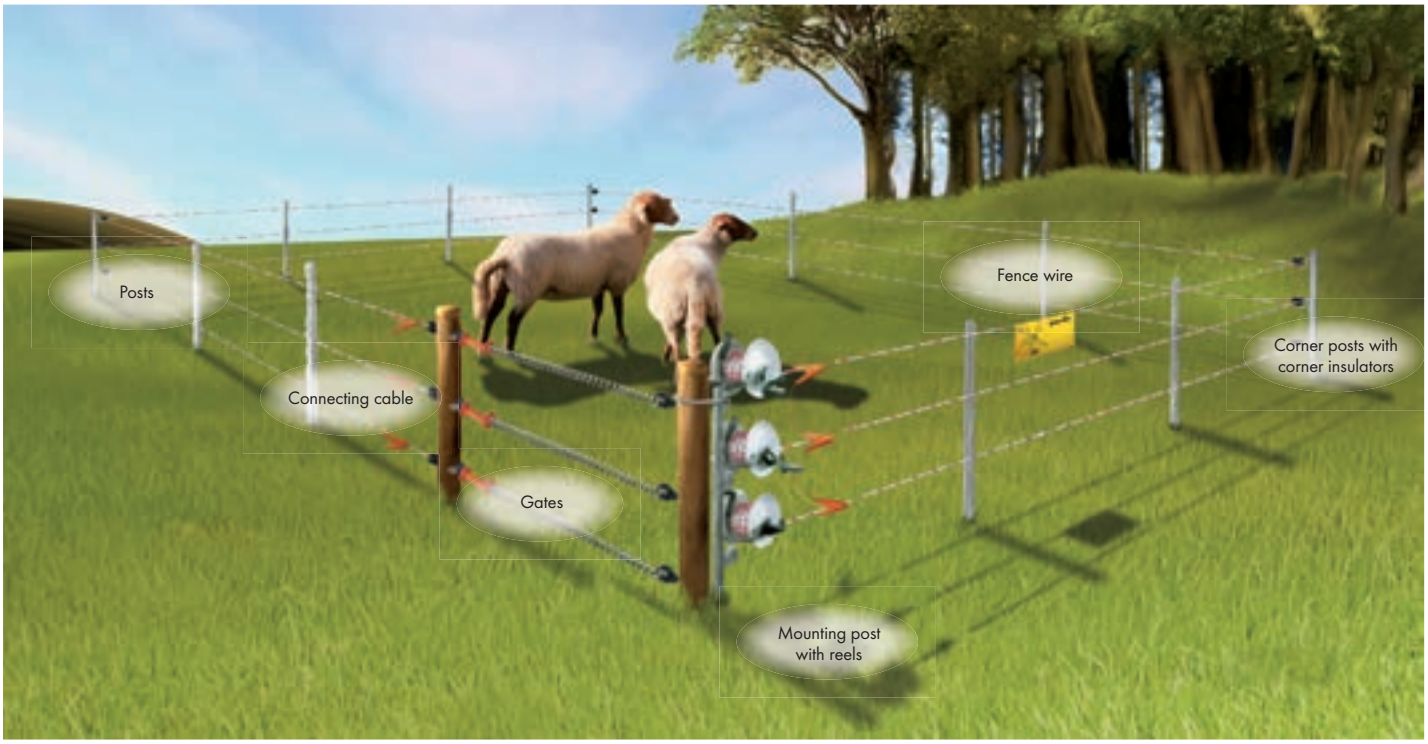


complete mounting kit included

Fixed Pasture Gate with Wire Mesh, height 1 m

Sturdy, hot-dip galvanised gate
Made of steel tubing with wire mesh, complete mounting kit included

451023	3.00 m with Wire Mesh	1 vertical brace	45 kg
451024	3.50 m with Wire Mesh	1 vertical brace	49 kg
451025	4.00 m with Wire Mesh	2 vertical braces	56 kg
451026	4.50 m with Wire Mesh	2 vertical braces	62 kg
451027	5.00 m with Wire Mesh	2 vertical braces	67 kg
451028	6.00 m with Wire Mesh	3 vertical braces	80 kg



How to properly erect your temporary fence system:

When do I use a temporary fencing system?

The PATURA temporary fence system is ideal for sites that will be fenced in for a limited time only and for fences in changing locations. All the constituent parts have been developed specially for a quick and easy erection of the fence. It is possible for one person working on his own to safely and completely fence in an area of one hectare in under half an hour.

Reel system with reels and standard mounting post: the reels are firmly screwed to the post

Reel system with reels and special mounting post: the reels can be easily removed from the post

Metal corner post with corner insulators on a temporary cattle fence

The reel, the core of the temporary fence

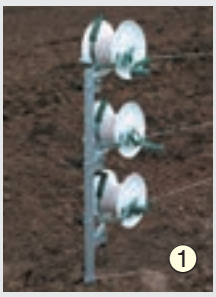
Without a reel, which allows for simple dispensing and rewinding as well as storage of the fence wire, a movable fence system would be unthinkable. The reel can be either mounted firmly onto a standard mounting post or is easily removable from the special mounting post. All reels are self-insulating and can be locked in fine steps. The standard reel holds up to 500 m, the special reel up to 600 m, and the Maxi-reel up to 1000 m of Tornado polywire. By mounting several reels above one another, fences with 1 to 4 wires are possible.

The clever choice: Reel Special 600 with Gearing

① Solid, long hand crank mounted on nylon bushes
② Solid ratchet
③ Positive ratchet lock mechanism
④ Ergonomically designed carry handle
⑤ 3 ÷ 1 ratio gear system for fatigue-free rewinding
⑥ Wire guide for smooth winding and unwinding of polywires

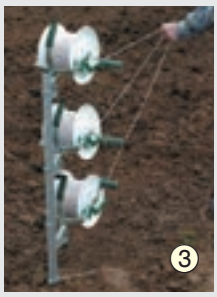
Reels with gear system save time and money

Quick fence erection – step by step



Place mounting post with reels at one corner

Set corner posts at the remaining corners and curves

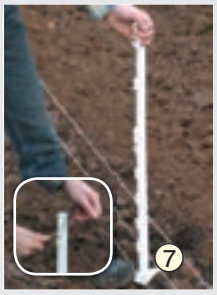


Grab the polywires from the reels and unwind

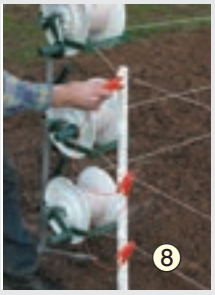
Run the polywires over the corner insulators

Attach the polywires at the end of the fence and ...

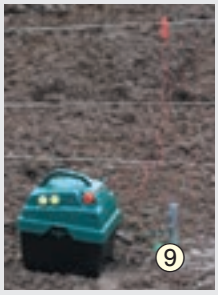
... tighten by winding back on the reels



Push in the plastic posts and attach the polywires



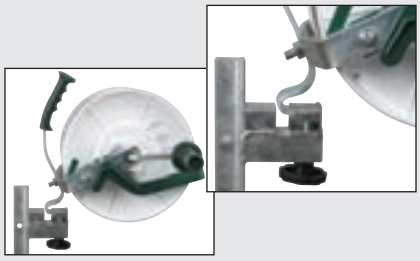
Attach the cross-connections approx. every 200 m



Attach and earth the energiser

In just a short time the electric fence is ready for use

Fence in 1 hectare in less than half an hour



Instead of standing and winding up polywire from the fixed post, and thus pulling it through all corner insulators, quick and easy removal of the reels allows one to walk along the fence line while paying out or winding in the polywire; this reduces wear on the polywires and means less effort – particularly in winding it in.

Reels with a gear system save time and effort

Reel with Hand Grip

Cost-effective plastic reel with lock pin; up to 500 m of wire

105000

Hand Reel

With lock pin, carry handle and hook to hang on fence wire; ideal for dividing up paddocks; up to 300 m of polywire

105210

Supplementary reel
105211

Hand Reel Maxi

With lock pin, carry handle and hook to hang on fence wire; ideal for dividing up paddocks; up to 600 m of polywire

105310

Supplementary reel
105311

Reel Universal

Plastic handle with mounting hook
With ratchet lock for fence tension, up to 800 m polywire. Also suitable for use on the standard mounting post.

161002 **(qty 1)**

Reel with Support and Neck Strap

With lock; up to 1000 m of wire

115110

Supplementary reel
115111

Polytape Reel

With chest carrying frame
For up to 500 m of polytape

114000

Supplementary reel
113900

Reel Special 600

With gear system
With carry handle, mounting hook, wire guide and ratchet lock for fence tension, up to 600 m of polywire

161301

Reel Maxi 1000

With gear system
With carry handle, mounting hook and ratchet lock for fence tension, up to 1000 m of polywire

161501

Reel Standard 500

With carry handle, mounting hook and ratchet lock for fence tension, up to 500 m of polywire

161001

Reel Standard 800

With carry handle, mounting hook and ratchet lock for fence tension, up to 800 m of polywire

161101

Standard Mounting Post for short temporary fences with only a few corners

Standard Mounting Post

For up to 3 reels
Reels are firmly bolted to the post, fence height to 1.00 m

635000

For up to 4 reels
Reels are firmly bolted to the post, fence height to 1.35 m

634000

Special Mounting Post for longer temporary fences, particularly those with many corners

Special Mounting Post

For up to 3 reels
Reels for easy rewinding when there are numerous curves in the fence line; easily removable; fence height to 1.00 m

633001

For up to 4 reels
Reels for easy rewinding when there are numerous curves in the fence line; easily removable; fence height to 1.35 m

632001

Reels

	Ref.	Colour	Suitable for wire	Suitable for polywire	Suitable for rope	Suitable for polytape	Suitable for temporary fence systems	Suitable for subdivision	Suitable for external fencing	Capacity (m) Thin wires/polywires	Compact/Tornado Polywire	Plastic/Tornado polyrope	Polytape 12.5 mm	Capacity in dm3
Standard 500	**161001**	black	o	++	+	++	++	+	++	600	500	400	150	300	4.5
Standard 800	**161101**	black	o	++	+	++	++	+	++	1000	800	600	250	400	7.0
Spezial 600	**161301**	white	o	++	+	++	++	+	++	750	600	450	200	400	5.7
Maxi 1000	**161501**	white	o	++	+	++	++	+	++	1200	1000	750	300	500	8.8
Reel Universal	**161002**	black	o	++	+	++	+	+	++	1000	800	600	250	400	7,0
Hand Reel	**105210**	black	–	++	–	o	–	+	o	300	200	150	–	–	2.0
Hand reel Maxi	**105310**	black	–	++	–	o	–	+	o	600	500	400	–	–	4,5
Hand reel w. handle	**105000**	black	–	++	–	o	–	o	o	500	400	300	–	–	3.7
Hand reel w. support and neck strap	**115110**	black	o	++	o	+	–	–	+	1000	600	450	200	400	9,0
Polytape Reel w. Support and Neck Strap	**114000**	green	-	+	+	++	–	–	+	–	–	–	250	500	11

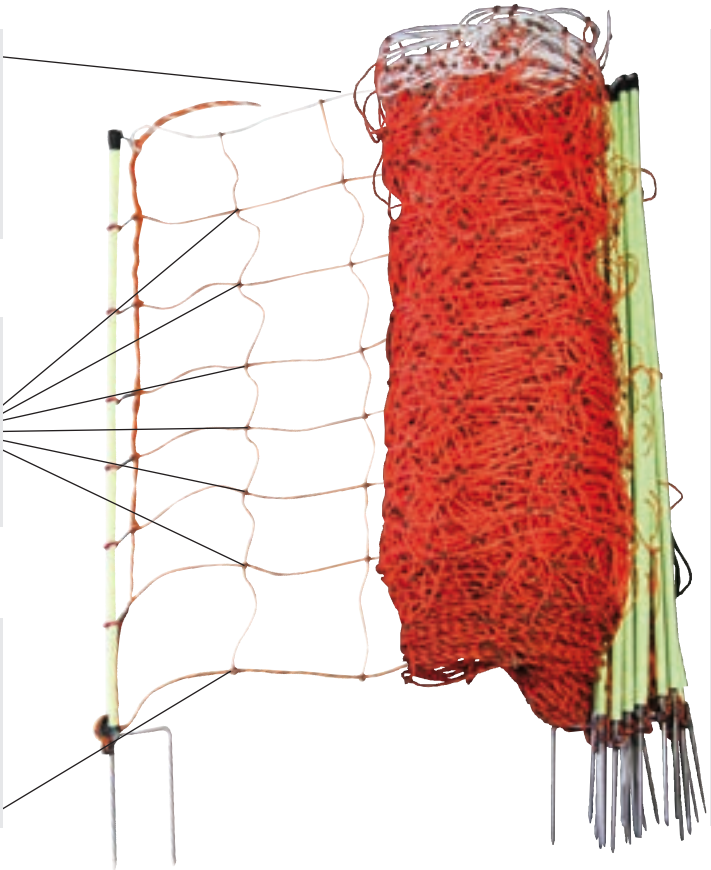
++ = most suitable
+ = suitable
o = suitable with limitations
– = unsuitable

Setting up a Tornado XL Electric Fence Netting

6 x 0.20 mm stainless steel strands + 3 x 0.25 mm copper strand

3 x 0.20 mm stainless steel strands

Non-conducting wire



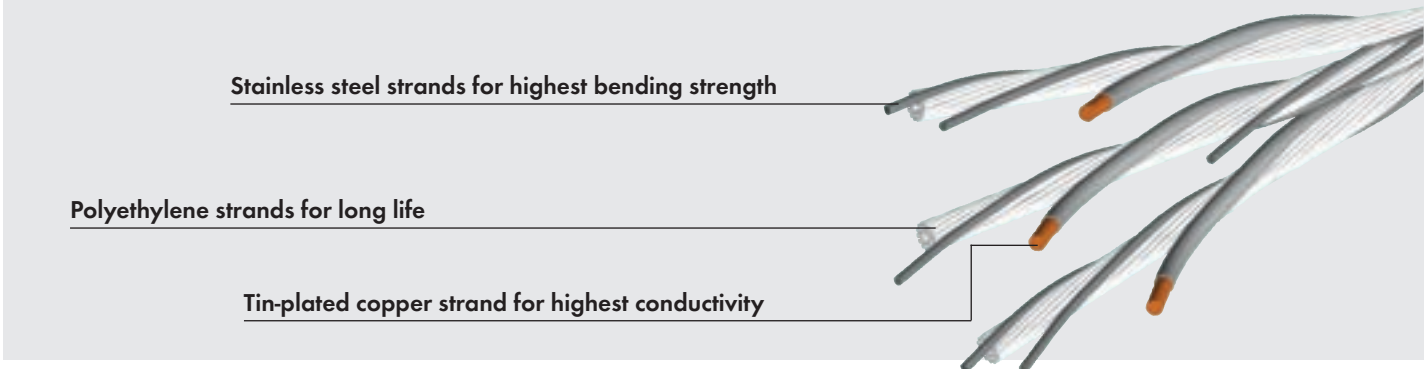
Here are the facts

Do you know the expected voltage, when an animal touches a fence at 100 m, 1 km or 3 km along a single-wire fence, if the voltage at the start of the fence is 8000 volts? In practice, PATURA recommends fence voltages of 3000 – 4000 volts.

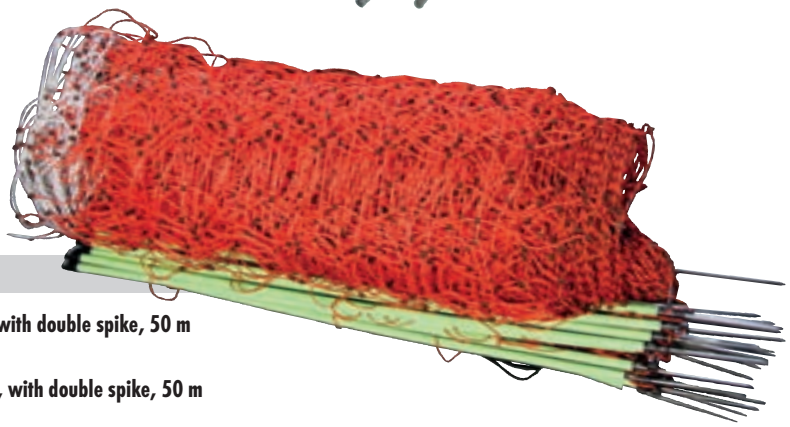
Fence Voltage	after 100 m	after 1 km	after 3 km
Tornado XL Electric Fence Netting 0.90 m	7800 V	6500 V	5000 V
Electric fence netting 0.90 m	6000 V	2000 V	800 V

Tornado XL Electric Fence Netting, highest power level for long distances

As a special feature, PATURA integrates a combination of stainless steel and copper strands into the nettings. Stainless steel strands are extremely durable, copper strands have very high conductivity. Unlike conventional nettings, high durability and high conductivity are combined in one product.



Tornado XL netting with highest conductivity



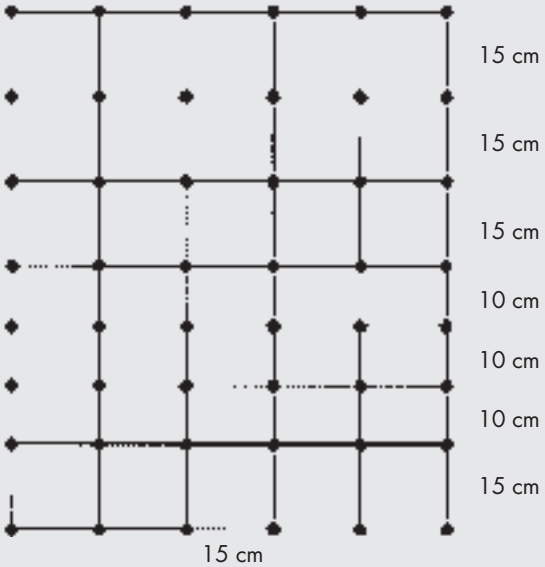
Tornado XL Electric Fence Netting

Additional copper strands for exceptionally improved conductivity to the end of the fence. Resistance: 0.1 Ohms/m

90 cm high, with double spike, 50 m
109250

106 cm high, with double spike, 50 m
110650

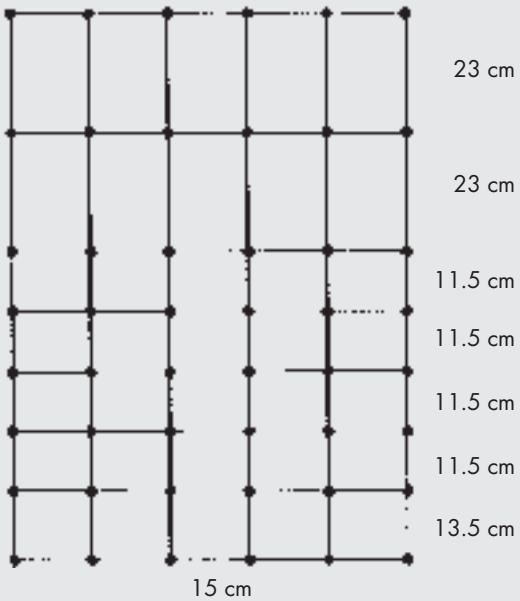
Tornado XL Electric Fence Netting 0.90 m:



Tornado XL electric fence netting 0.90 m for sheep and lambs:
14 posts with double spikes, 8 horizontal polywires, of which the top 7 carry current (top wire is 6 x 0.20 mm stainless steel plus 3 x 0.25 mm copper strand, the lower 6 each have 3 x 0.20 mm stainless steel strands).

Resistance: 0.1 Ohm / m

Tornado XL Electric Fence Netting 1.06 m:



Tornado XL electric fence netting 1.06 m for sheep and lambs:
14 posts with double spikes, 8 horizontal polywires, of which the top 7 carry current (top wire 6 x 0.20 mm stainless steel strands + 3 x 0.25 mm copper strand, the lower 6 each have 3 x 0.20 mm stainless steel strands)

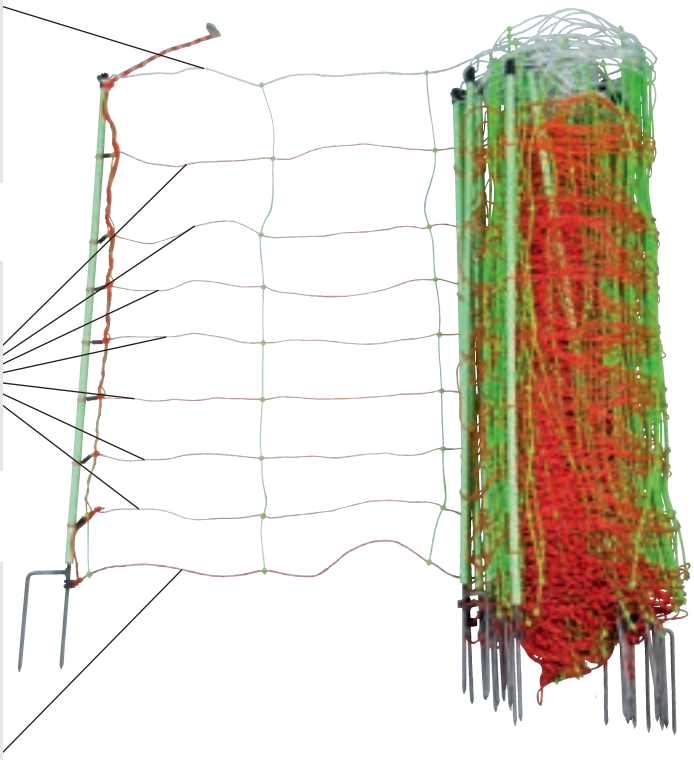
Resistance: 0.1 Ohm / m

Composition of Tornado XL Electric Fence Netting „Combi“

6 x 0.20 mm stainless steel strands +3 x 0.25 mm copper strand

3 x 0.20 mm stainless steel strands

Non-conducting wire



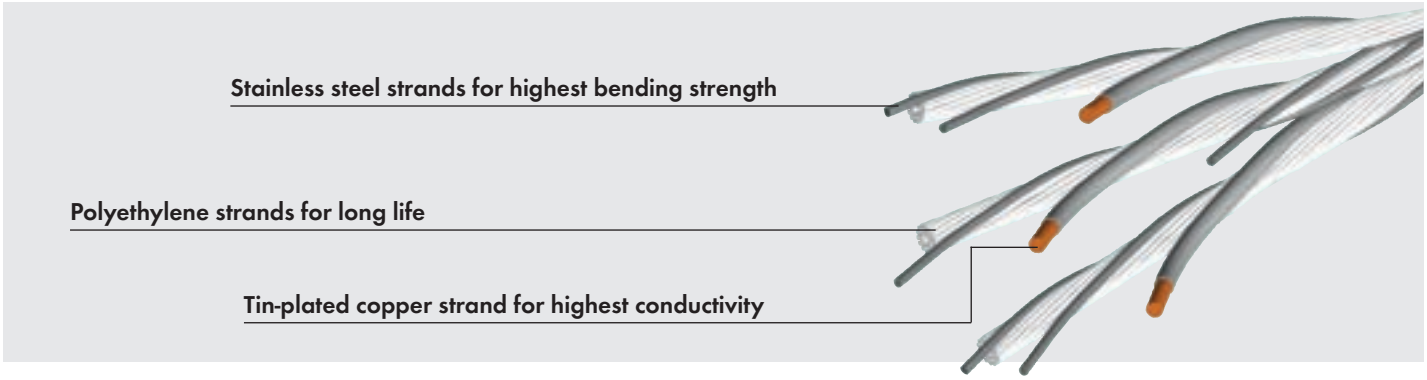
Here are the facts

Do you know the expected voltage, when an animal touches a fence at 100 m, 1 km or 3 km along a single-wire fence, if the voltage at the start of the fence is 8000 volts? In practice, PATURA recommends fence voltages of 3000 – 4000 volts.

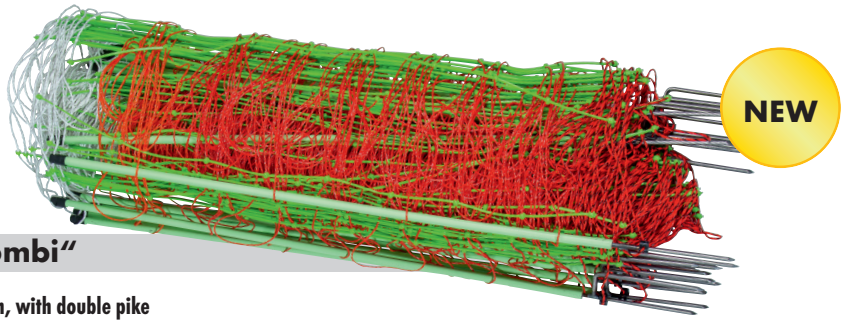
	Fence Voltage		
after 100 m	after 1 km	after 3 km
TornadoXL Electric Fence Netting "Combi" 0.90 m		
7800 V	6500 V	5000 V
Electric Fence Netting 0.90 m		
6000 V	2000 V	800 V

Tornado XL Electric Fence Netting „Combi“, for highest striking force over long distances

As a special feature, PATURA offers the combined processing of stainless steel and copper conductors in nets. Stainless steel conductors are extremely durable, copper conductors are very conductive. Unlike common nets, a long service life is achieved with a simultaneously high conductivity. Due to the rigid vertical connections, the Tornado XL Combi has better stability in hilly terrains.



Tornado XL Electric Fence Netting "Combi" with highest conductivity



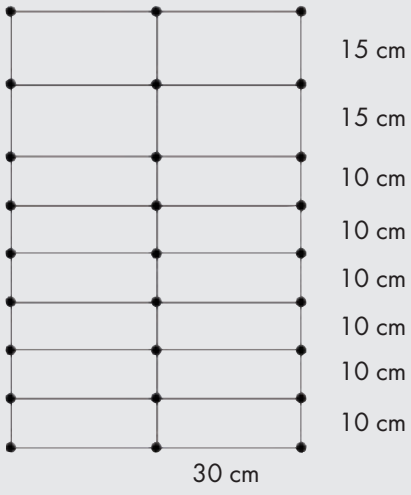
Tornado XL Electric Fence Netting „Combi“

Additional copper conductors for significantly improved conductivity up to the end of the fence; the vertical strands are designed as rigid plastic struts; this prevents a sagging of the nets

90 cm high, with double pike
109260

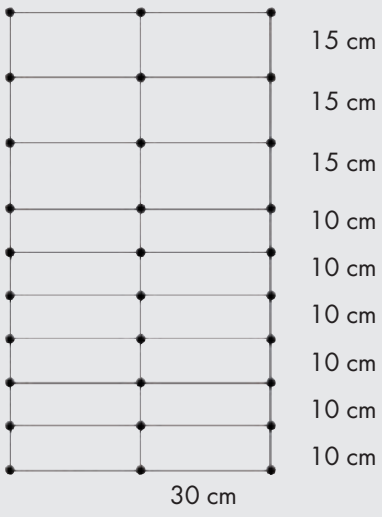
106 cm high, with double pike
110660

Tornado XL Electric Fence Netting "Combi" 0,90 m:



Tornado XL Electric Fence Netting "Combi" 0.90 m:
14 poles with double spike, 9 horizontal plastic strands, the upper 8 electrically live (top strand 6 x 0.20 mm stainless steel conductor + 3 x 0.25 mm copper conductor, underneath 7 strands each with 3 x 0.20 mm stainless steel conductor)
Resistance: 0.1 Ohm / m

Tornado XL Electric Fence Netting "Combi" 1.06 m:

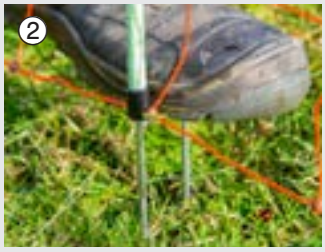


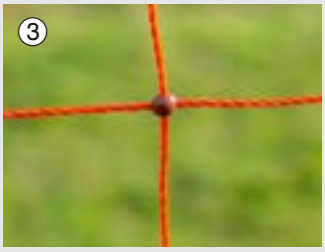
Tornado XL Electric Fence Netting "Combi" 1.06 m:
14 poles with double spike, 10 horizontal plastic strands, the upper 9 electrically live (top strand 6 x 0.2 mm stainless steel conductor + 3 x 0.25 mm copper conductor, underneath 8 strands each with 3 x 0.20 mm stainless steel conductor)
Resistance: 0.1 Ohm / m

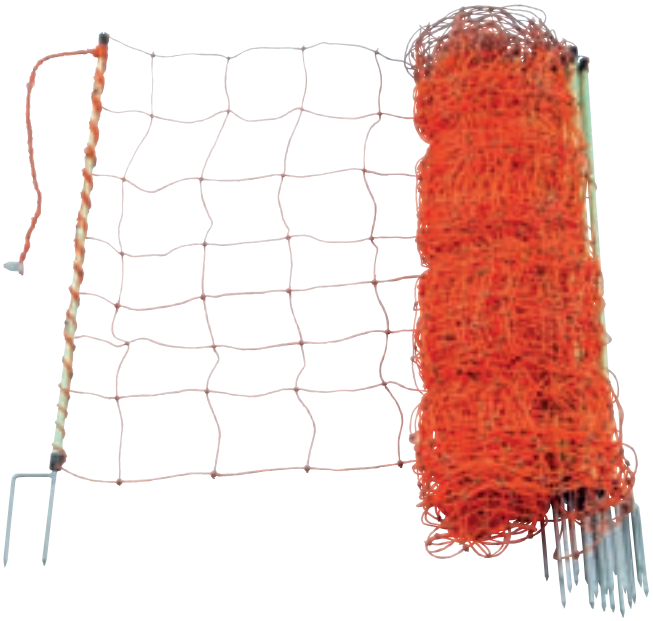
PATURA Tornado Electric Fence Netting

PATURA Electric Fence Netting have flexible vertical connecting strands which are not live and are connected to the horizontal strands via welded knots. The combination of stainless steel and copper conductors ensures a high conductivity with a long life of the conductors. Due to the low electrical resistance, these nets are also suitable for longer distances.

PATURA Tornado Electric Fence Netting - 3 distinctive advantages:
① Clip for optimum connection
② Double spike to push into the ground easily
③ Firmly welded knots

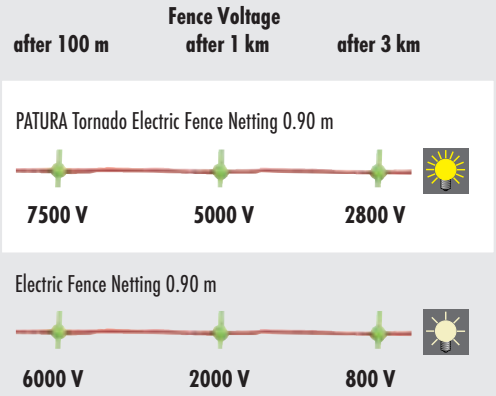


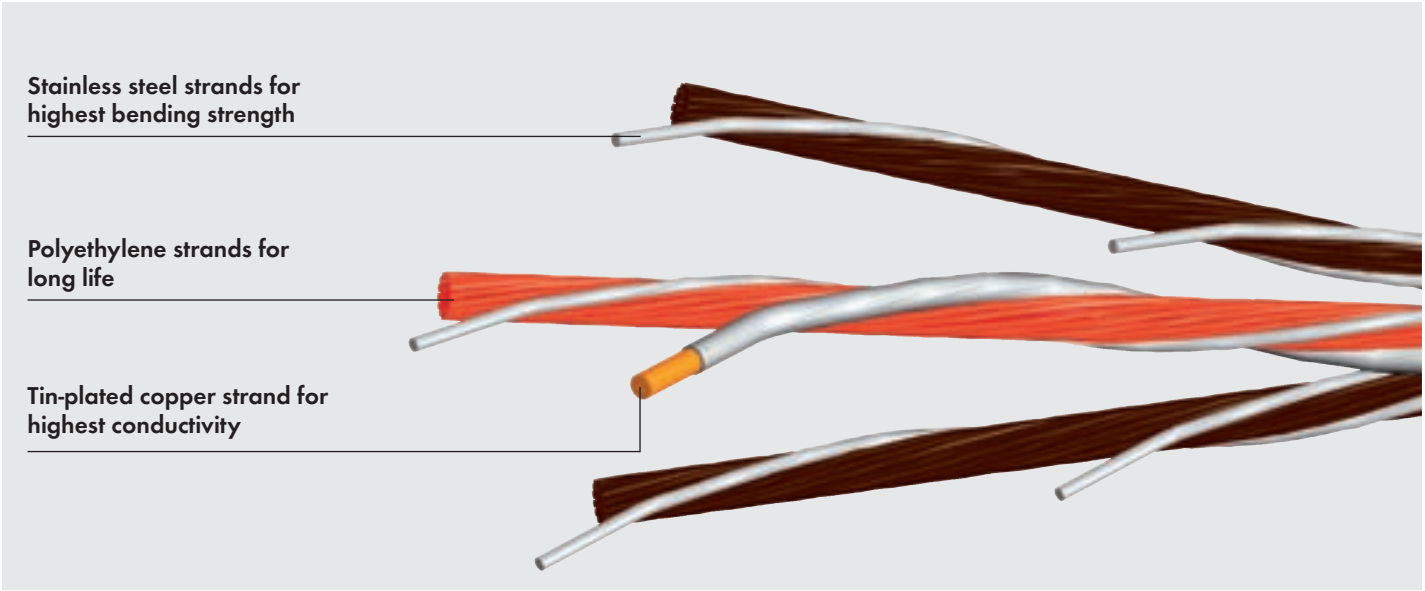




Here are the facts

Do you know the expected voltage, when an animal touches a fence at 100 m, 1 km or 3 km along a single-wire fence, if the voltage at the start of the fence is 8000 volts? In practice, PATURA recommends fence voltages of 3000 – 4000 volts.





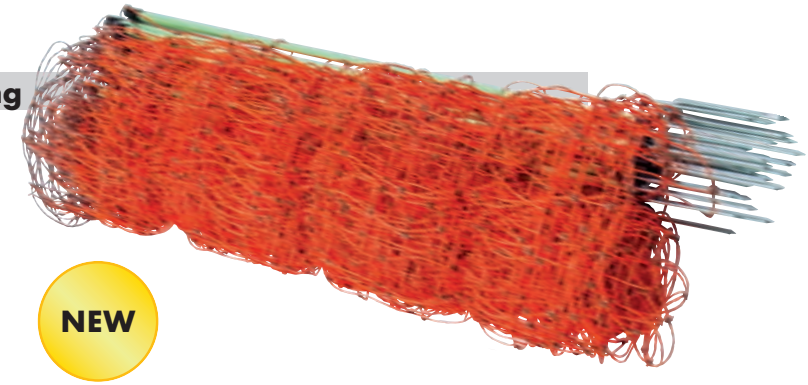
PATURA Tornado Electric Fence Netting

height 90 cm height, with single pike, 50 m
109270

height 90 cm height, with double pike, 50 m
109280

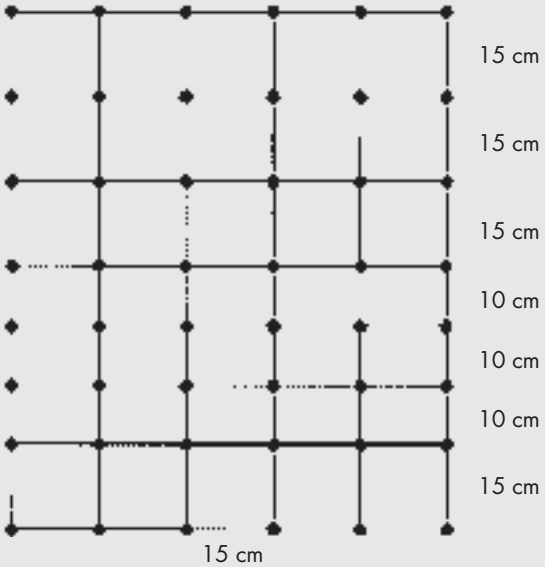
height 106 cm height, with single pike, 50 m
110670

height 106 cm height, with double pike, 50 m
110680



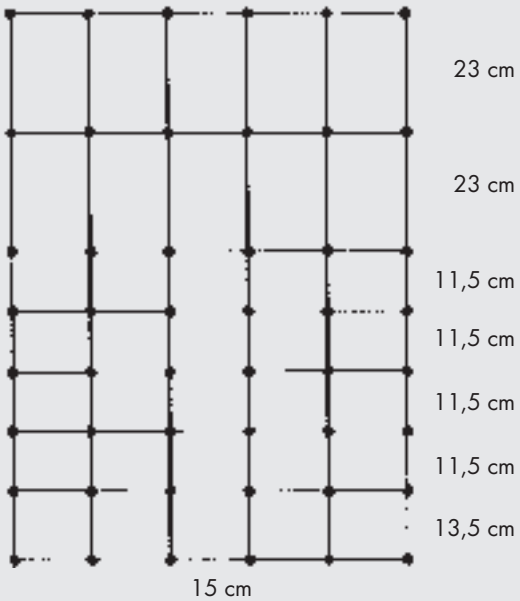
NEW

PATURA Tornado Electric Fence Netting 0,90 m:



PATURA Tornado Electric Fence Netting 0.90 m:
14 poles with double or single spike, 8 horizontal plastic strands, the upper 7 electrically live (top strand with 1 x 0.25 mm copper conductor and 5 x 0.20 mm stainless steel conductor, underneath 6 strands each with 3 x 0.20 mm stainless steel conductor)
Resistance: 0.3 Ohm / m

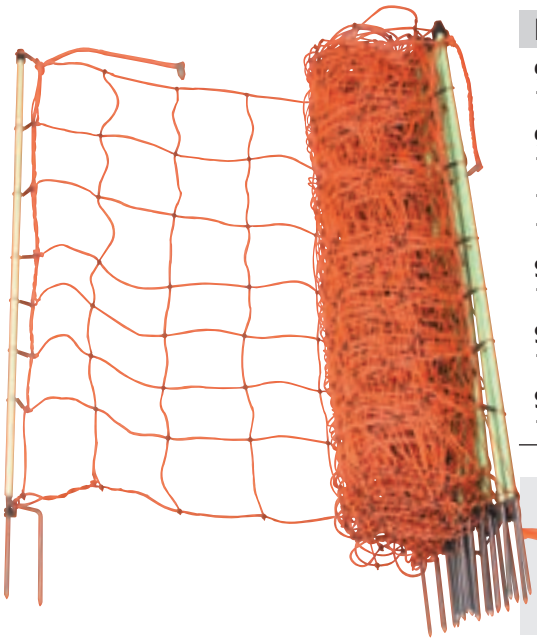
PATURA Tornado Electric Fence Netting 1,06 m:



PATURA Tornado Electric Fence Netting 1,06 m:
14 poles with double or single spike, 8 horizontal plastic strands, the upper 7 electrically live (top strand with 1 x 0.25 mm copper conductor and 5 x 0.20 mm stainless steel conductor, underneath 6 strands each with 3 x 0.20 mm stainless steel conductor)
Resistance: 0.3 Ohm / m

Electric fence netting, for longest life cycle

PATURA Electric Fence Netting have flexible vertical connecting strands which are not live and are connected to the horizontal strands via welded knots.



Electric Fence Netting

90 cm high, with double spike, 50 m
109200

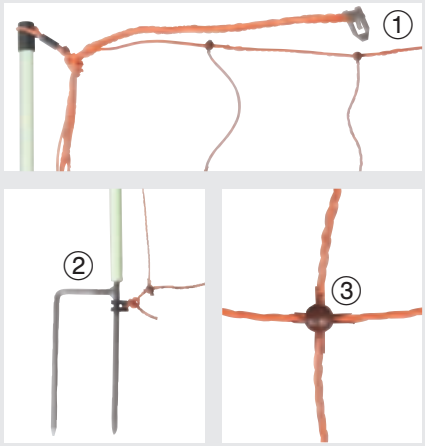
90 cm high, with single spike, 50 m
108900

106 cm high, with double spike, 50 m
110600

Spare post 90 cm, double spike
109201

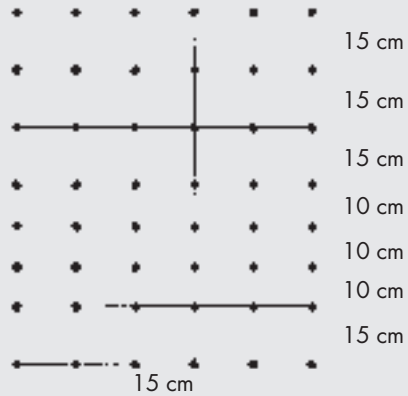
Spare post 90 cm, single spike
108901

Spare post 106 cm, double spike
110601



PATURA netting -
3 distinctive advantages:
① Clip for optimum connection
② Double spike to push into the ground easily
③ Firmly welded knots

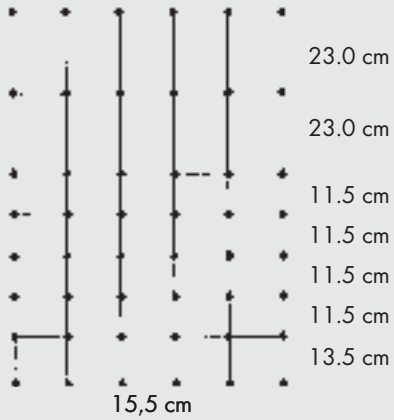
Electric Fence Netting 0.90 m:



Electric fence netting 0.90 m:
14 posts with double spikes,8 horizontal polywire, of which the top 7 carry current (top wire is 6 x 0.20 mm stainless steel strands, the lower 6 each have 3 x 0.20 mm stainless steel strands).

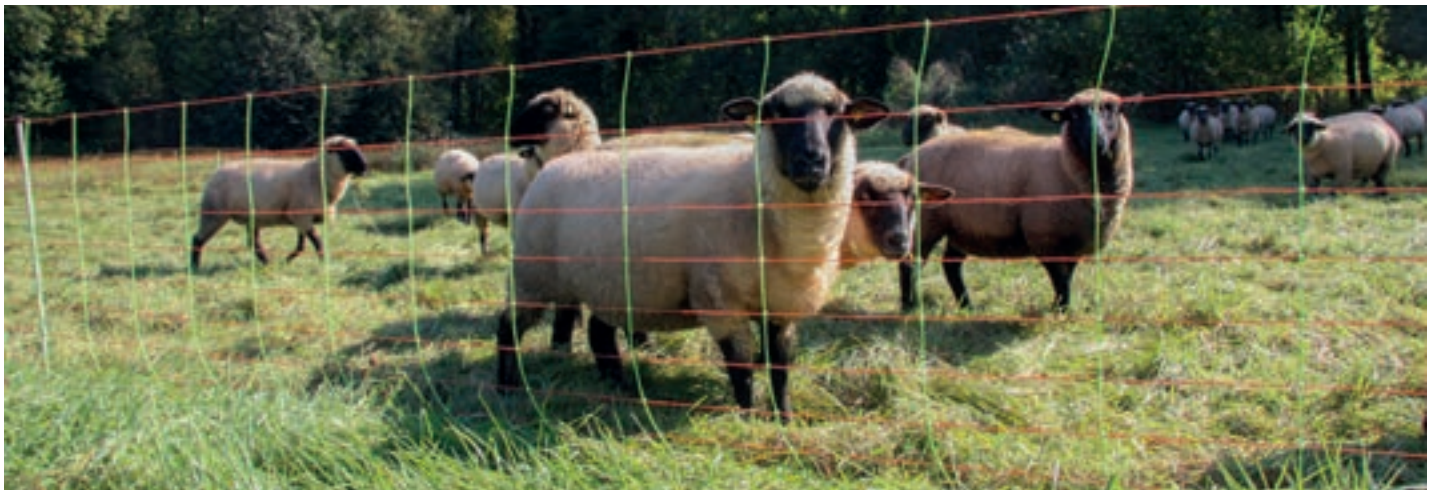
Resistance: 1.4 ohms/m

Electric Fence Netting 1.06 m:



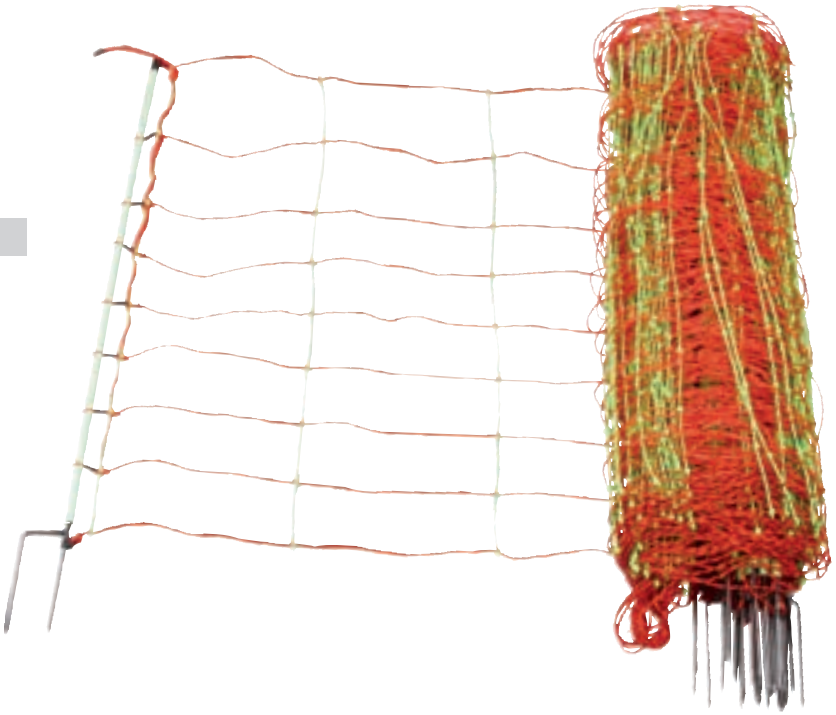
Electric Fence Netting 1.06 m:
14 posts with double spikes, 8 horizontal polywires, of which the top 7 carry current (top wire is 5 x 0.20 mm stainless steel plus 1 x 0.25 mm copper strand, the lower 6 each have 3 x 0.20 mm stainless steel strands)

Resistance: 1.4 ohms/m



Electric Fence Netting „Combi“, with rigid plastic stays

The “Combi” netting offers an improved stability in undulating terrain due to the semi-rigid vertical stays.



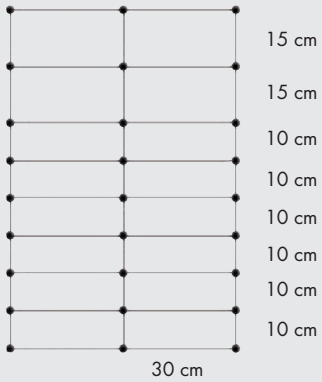
Electric Fence Netting „Combi“

Electric fence netting where the vertical connectors are executed as rigid plastic stays; it prevents the sagging of the nettings

90 cm high, with double spike, 50 m
109220

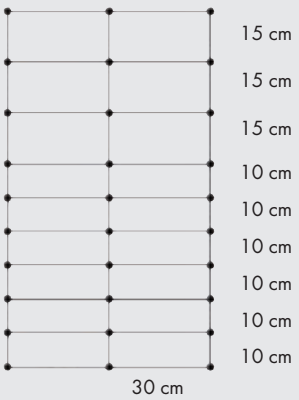
106 cm high, with double spike, 50 m
110620

Electric Fence Netting "Combi" 0.90 m:



Electric Fence Netting "Combi" 0.90 m:
14 posts with double spikes, 9 horizontal polywires, of which the top 8 carry current (top wire is 6 x 0.20 mm stainless steel strands, the lower 7 each have 3 x 0.20 mm stainless steel strands)
Resistance: 1.4 ohms/m

Electric Fence Netting "Combi" 1.06 m:



Electric Fence Netting "Combi" 1.06 m:
14 posts with double spikes, 10 horizontal polywires, of which the top 9 carry current (top wire is 6 x 0.20 mm stainless steel strands, the lower 8 each have 3 x 0.20 mm stainless steel strands)
Resistance: 1.3 ohms/m

Repair Kit for electric fence netting

108605

Plastic Cap for electric fence netting

plastic

108606

Holing Bracket for electric fence netting posts

plastic

108607

Peg for electric fence netting

plastic

108608

Brass Clip for electric fence netting

108609

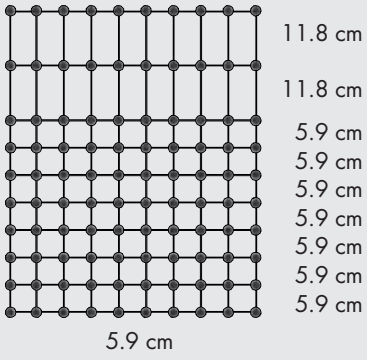
Crop Protection Netting

against rabbits and wild boar

65 cm high
With double spike, 50 m
106500 (qty 1)

Spare Post 65 cm
Double spike
106501 (qty 1)

Electric fence netting to protect against crop damage:
Note the smaller mesh size in the bottom section



Crop Protection Netting 0.65 m:
15 posts with double spikes, 10 horizontal polywires of which the top 9 carry current (each has 3 x 0.20 mm stainless steel strands)

Resistance: 1.3 ohms/m

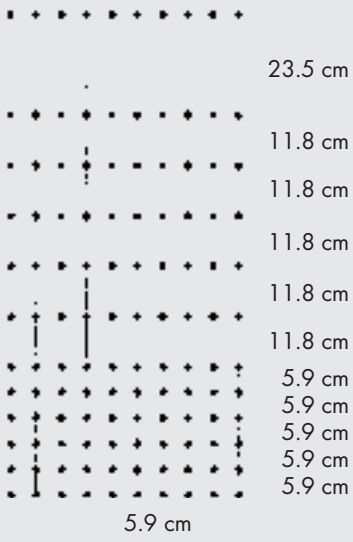
Poultry Netting

for chicken, geese, turkeys – but also sheep (particularly lamb safe)

112 cm high
With double spike, 50 m
111200 (qty 1)

Spare Post 112 cm
Double spike
111201 (qty 1)

Electric fence netting for poultry:
Note the smaller mesh size in the bottom section



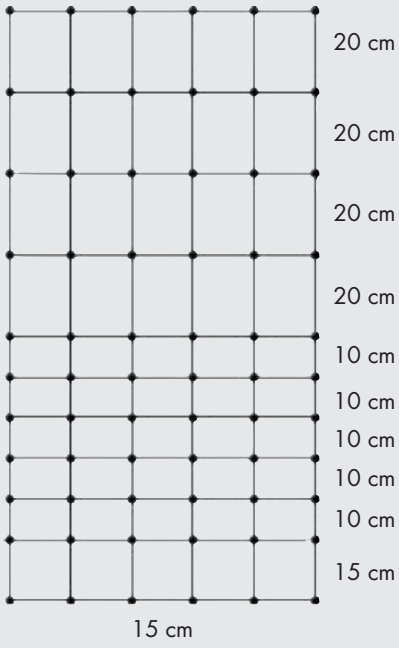
Poultry netting 1.12 m:
15 posts with double spikes,
12 horizontal polywires, of which the top 11 carry current (each has 3 x 0.20 mm stainless steel strands)
Resistance: 1.0 ohms/m

Electric Fence Netting for Wolf Control

for reliable wolf control on sheep and goat paddocks

145 cm high
With double spike, 50 m
110500 (qty 1)

Electric Fence Netting for wolf control:
According to the official recommendations



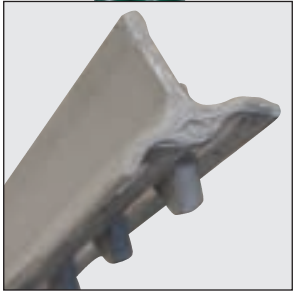
Electric Fence Netting for wolf control 1.45 m:
15 thick 19 mm posts with double spikes
11 horizontal polywires, of which the top 10 carry current

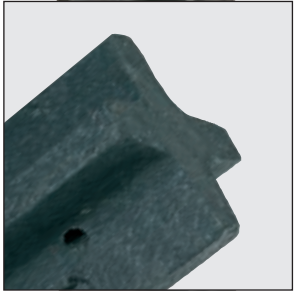
Resistance: 1.2 ohms/m

Fence Systems

PATURA permanent fence: the perfect solution

Permanent electric fence installations are sensible when a pasture is permanently going to be used for grazing. A permanent fence installation should be constructed such that over the years it is more or less maintenance-free. In this, the PATURA fence is an investment that pays off.





The alternatives to hardwood:

- **T-Posts**
- **X-Profile posts**
- **Robinia posts**

In case hardwood cannot be used for our permanent fence systems there are additional posts to be selected as alternatives. Please consider the following application recommendations.

T-Posts: They possess unsurpassed stability. Breaking off and/or bending is impossible under normal conditions. For long lasting permanent fences top quality insulators should be used. A defective insulator or an unhinged wire always results in a short-circuit.

X-Profile posts: They offer full-isolating characteristics, are stable to all environmental influences and have pre-drilled holes for all common wire spacing. They are ideal for deep, soft or damp grounds. For very shallow, stony, or very hard ground they can be difficult to drive into the ground.

Robinia posts: Robinia wood is the hardest wood growing in Europe. It is characterised by outstanding stability and very high durability. Attach insolators to fix the wires to the posts.

Electric fence without insulators?

PATURA hardwood is a hardwood that possesses full electrical insulation qualities. This special hardwood has been used successfully for over 25 years in electric fence construction. It is the basis for electric fences without insulators. It is a natural product that is very durable in the ground without the need for poisonous impregnation measures. And for the future, PATURA hardwood will avoid the environmental disposal problems, that (e.g.) most impregnated wooden posts or recycled plastic posts have. The great Achilles' heel of the traditional electric fence, defective insulators, is thus a thing of the past. Only at the corner and tension posts of traditional wood do we use high quality porcelain insulators.

You can make use of the advantages of the PATURA permanent fence system without insulators, too!

- Considerable cost benefits compared with conventional fences
- Construction time is halved
- Trouble- and maintenance-free operation for years
- Very high security level
- Low injury risk due to the high level of flexibility
- Suitable for all animal types, fence heights from 0.90 - 1.60 m
- The PATURA permanent fence blends attractively into the landscape
- 10-year warranty
- PATURA hardwood has been used successfully for over 25 years in electric fence construction

PATURA hardwood posts, the proven alternative.

The secure and durable wire attachment using pre-formed wire clips, in combination with the insulating PATURA hardwood, mean an electric fence without insulators. Problems with defective insulators are a thing of the past.

We offer a 10-year warranty on the self-insulating PATURA hardwood posts.

PATURA Permanent Fence for all types of cattle

With posts every 10 m, steel wire, tie clips, insulators, tensioners, joint screws and all minor hardware*

309210	**0.90 m high**	**2 wires, X-profile posts**
309211	**0.90 m high**	**2 wires, Y-profile posts**
309212	**0.90 m high**	**2 wires, T-posts**
310310	**1.05 m high**	**3 wires, X-profile posts**
310311	**1.05 m high**	**3 wires, Y-profile posts**
310312	**1.05 m high**	**3 wires, T-posts**

With hardwood posts every 24 m, 2 hardwood droppers between each, steel wire, tie clips, insulators, tensioners, joint screws and all minor hardware*

309200	**0.90 m high**	**2 wires, hardwood posts**
310300	**1.05 m high**	**3 wires, hardwood posts**
311200	**1.05 m high**	**2 wires, hardwood posts**

PATURA Permanent Fence for sheep and goats

With posts every 10 m, steel wire, tie clips, insulators, tensioners, joint screws and all minor hardware*

309403	**0.90 m high**	**4 wires, X-profile posts**
309401	**0.90 m high**	**4 wires, Y-profile posts**
309402	**0.90 m high**	**4 wires, T-posts**
310503	**1.05 m high**	**5 wires, X-profile posts**
310501	**1.05 m high**	**5 wires, Y-profile posts**
310502	**1.05 m high**	**5 wires, T-posts**

With hardwood posts every 24 m, 2 hardwood droppers between each, steel wire, tie clips, insulators, tensioners, joint screws and all minor hardware*

309400	**0.90 m high**	**4 wires, hardwood posts**
310500	**1.05 m high**	**5 wires, hardwood posts**

PATURA Tornado XL Polyrope Fence for horses

With posts every 8 m, Torado XL polyrope, tie clips, insulators, tensioners, joint screws and all minor hardware*

314053	**1.40 m**	**Hardwood posts, 3 Tornado XL polyropes**
314063	**1.40 m**	**X-profile posts, 3 Tornado XL polyropes**
314062	**1.40 m**	**T-posts, 3 Tornado XL polyropes**

PATURA Tornado XL Polytape Fence for horses

With posts every 6 m, Tornado XL polytape, strain and corner insulators for polytape, Tornado polytape insulators, joint screws and all minor hardware*

314043	**1.40 m**	**Hardwood posts, 3 Tornado XL polytapes 40 mm**
314073	**1.40 m**	**X-profile posts, 3 Tornado XL polytapes 40 mm**
314072	**1.40 m**	**T-posts, 3 Tornado XL polytapes 40 mm**

PATURA Safety Fence with HippoWire

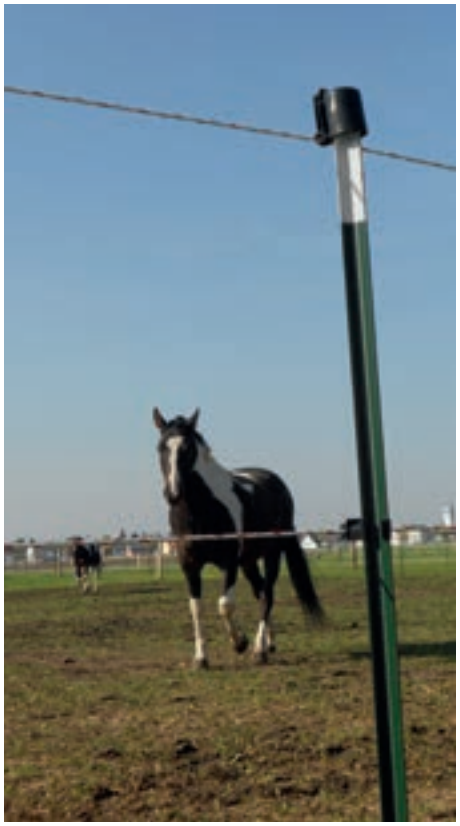
With posts every 10 m, HippoWire, tie clips, insulators, tensioners, joint screws and all minor hardware*

314093	**1.40 m**	**Hardwood posts, 3 HippoWires**
314083	**1.40 m**	**X-profile posts, 3 HippoWires**
314092	**1.40 m**	**T-posts, 3 HippoWires**
316093	**1.60 m**	**Hardwood posts, 3 HippoWires**
316092	**1.60 m**	**T-posts, 3 HippoWires**

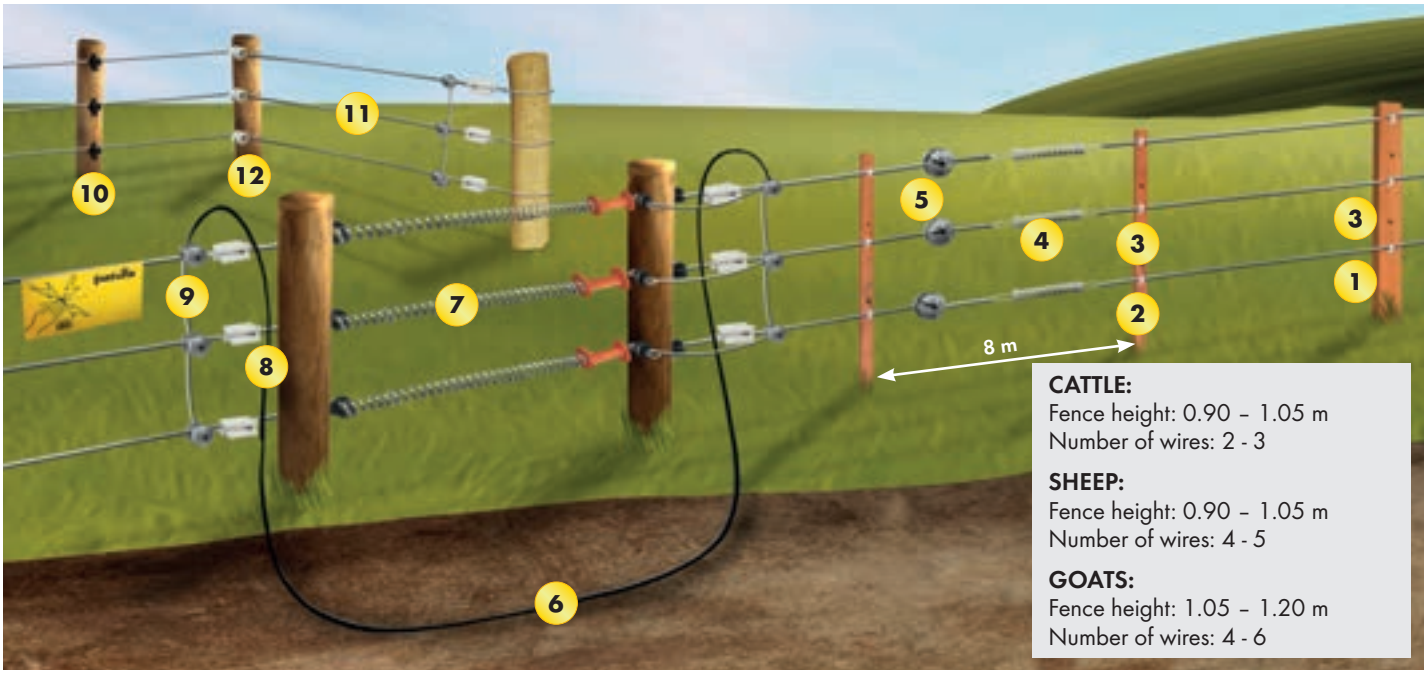
PATURA Hardwood Permanent Fence for sturdy horses

With hardwood posts every 24 m, 2 hardwood droppers between each, steel wire, Tornado XL polyrope, tie clips, insulators, tensioners, joint screws and all minor hardware*

312313	**1.20 m**	**2 wires, 1 Tornado XL polyrope, hardwood posts**



*The construction of permanent fences should be carried out with the support of our fence-building specialists. Please ask for a detailed quotation. We will provide details of reference installations in your area on request. Further fence configurations for other kinds of animal and alternative implementation to meet your requirements are also available on request.



CATTLE:
Fence height: 0.90 – 1.05 m
Number of wires: 2 - 3

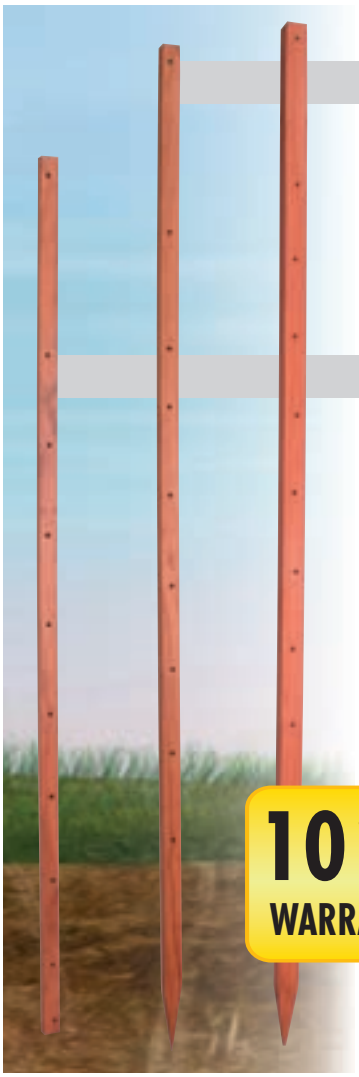
SHEEP:
Fence height: 0.90 – 1.05 m
Number of wires: 4 - 5

GOATS:
Fence height: 1.05 – 1.20 m
Number of wires: 4 - 6

The electric fence without insulators

The electric fence without insulators is built using self-insulating hardwood in association with 2.5 mm Tornado steel wire. This should be done with the support of PATURA fence-building specialists.

Send in a plan showing your intended fence. We will send you a non-binding offer.



1 Hardwood Posts

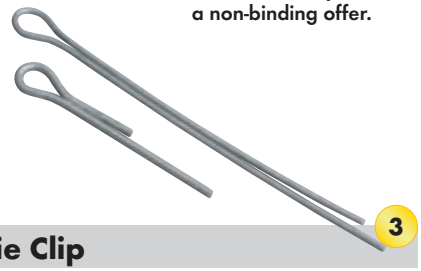
Insulating hardwood posts for an electric fence without insulators, not impregnated but extremely durable

175900	1.35 m	(38 x 26 mm)
175400	1.35 m	(38 x 38 mm)
176000	1.50 m	(38 x 38 mm)
177200	1.80 m	(38 x 38 mm)
178400	2.10 m	(50 x 50 mm)

2 Hardwood Droppers

Characteristics as hardwood posts, the droppers rest on the ground and serve as spacer for the wires

176100	0.94 m
176700	1.09 m
177300	1.24 m
178500	1.54 m



3 Tie Clip

For attaching wire, HippoWire and rope to wooden or X-profile posts

Clips long
170260 (qty 100)

Clips short
170560 (qty 100)

The PATURA hardwood permanent fence blends attractively into the landscape

Permanent Fence Insulator

10

For wire
Solid, UV resistant plastic insulator, mount using staples or screws, black
Mounting tip:
In curves, the insulator must be installed applying pressure on the post

10 year WARRANTY

167325 (qty 25)

10 year WARRANTY

11

TORNADO Steel Wire Ø 2.5 mm

Steel wire thickly coated with zinc-aluminium galvanising, three times the corrosion resistance and long life in comparison with normal thick galvanised wire, very high tensile strength

25 kg coil = approx. 625 m
190000

Joint Screw

9

Hot-dip galvanised, for the electrical cross-connection of several wires or for the connection of electric fence cable at the fence

169605 (qty 5)
169625 (qty 25)

Porcelain Strain Insulator

8

Start and end insulator for high tensile loads, made of porcelain

169203 (qty 3)
169210 (qty 10)
169250 (bucket qty 50)

Tension Spring – stainless steel

4

INOX

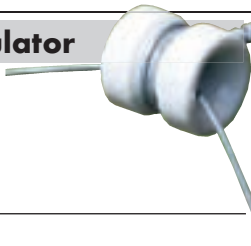
For 2.5 mm steel wire
Rugged item for 2.5 mm steel wire and HippoWire, the inclusion of this spring takes the load out of the wire and the corner posts, it keeps the wire taut during temperature changes: makes the fence resilient

162700

Porcelain Corner Insulator

12

Corner insulator for high tensile loads, made of porcelain



167403 (qty 3)
167410 (qty 10)

Spring Gate Set

7

The practical gate, extends up to 5 m, complete with 1 gate handle, spring, gate handle insulator and ring insulator each

164001 Standard
640001 Stainless steel, with stainless steel gate handle and gate handle insulator

Rotating Tensioner

5

Aluminium, allows rapid tensioning and de-tensioning of wires and ropes without cutting them

164303 (qty 3)
164325 (qty 25)

Tensioner Handle

For operating the tensioner

644000 1 tensioner handle

Rotating Tensioner - Starter Pack

6 rotating tensioners + 1 tensioner handle

644001

High Voltage Cable 2.5 mm

6

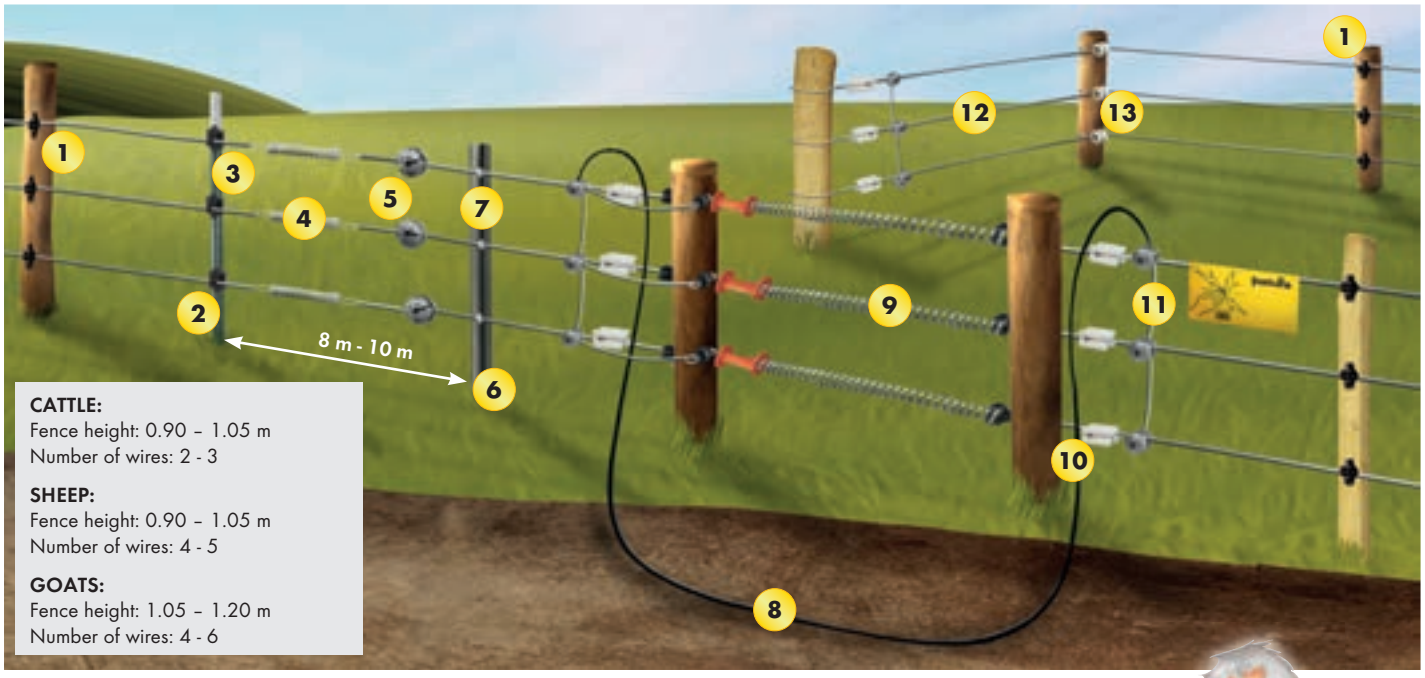
High voltage-proof, double insulated, single-core cable with 2.5 mm steel core; for fence and earth lead-outs over 50 m; resistance 0.035 ohms/m.

161050 50 m roll
161060 100 m roll
161070 200 m roll

Adjustable Steel Pasture Gate, height 0.90 m

Sturdy, hot-dip galvanised gate made of steel tubing, complete mounting kit included, extendable by 1 m, tubing diameters: main frame 42.4 mm / main frame inner 34 mm / sliding frame 34 mm / sliding frame inner 27 mm, clearance between tubes (bottom up) 14 cm / 14 cm / 18 cm / 26 cm

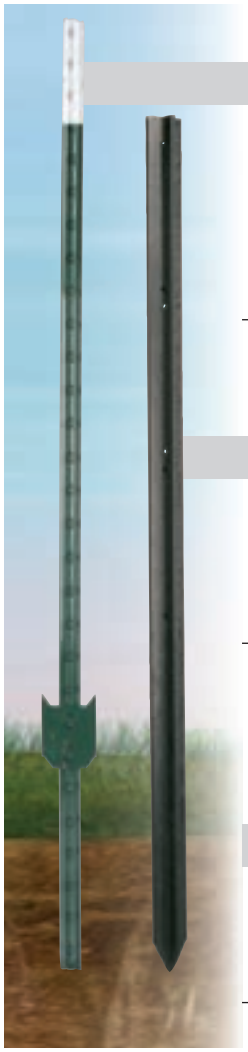
371020	1.10 - 1.70 m	1 vertical brace (mounting dimensions: 1.00 - 1.60 m)	24 kg
371030	1.45 - 2.00 m	1 vertical brace (mounting dimensions: 1.35 - 1.90 m)	26 kg
372030	2.00 – 3.00 m	1 vertical brace (mounting dimensions: 1.90 - 2.90 m)	36 kg
373040	3.00 – 4.00 m	2 vertical braces (mounting dimensions: 2.90 - 3.90 m)	47 kg
374050	4.00 – 5.00 m	3 vertical braces (mounting dimensions: 3.90 - 4.80 m)	58 kg
375060	5.00 - 6.00 m	4 vertical braces (mounting dimensions: 4.80 - 5.80 m)	66 kg



The electric fence for cattle, sheep and goats

The electric permanent fence for cattle, sheep and goats is constructed using conventional impregnated wooden posts in conjunction with the PATURA permanent fence insulator and the 2.5 mm Tornado steel wire. Alternatively, T-Posts or X-profile posts can be used.

Send in a plan showing your intended fence. We will send you a non-binding offer.



T-Posts, painted

2

Robust post of recycled steel, painted green, with solid base plate

l = 1.52 m/max fence height: 1.12 m / 3.1 kg
l = 1.67 m/max fence height: 1.27 m / 3.4 kg

171500
171600

XL-Insulator with pin

3

For T-Posts
For wire, polywire rope and HippoWire, with pin for easy fastening and releasing of the wire

black, (qty 25)
174125

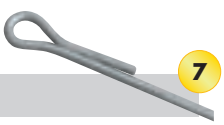
black, (qty 500)
174190

X-Profile Post

6

High quality recycled plastic post, pointed, ground water neutral, resistant to acids, salts, water and frost, UV-resistant and rot-proof, with pre-drilled holes for tie clips, rugged X-profile 70 x 70 mm

215000 1.50 m



Tie Clip

7

For attaching wire, HippoWire and rope to wooden or X-profile posts

Clips short
170560 (qty 100)

Permanent Fence Insulator

1

For wire
Solid, UV resistant plastic insulator, mount using staples, black
Mounting tip:
In curves, the insulator needs to be put under pressure towards the post

10 year WARRANTY

167325 (qty 25)

10 year WARRANTY

12

TORNADO Steel Wire Ø 2.5 mm

Steel wire thickly coated with zinc-aluminium galvanising, three times the corrosion resistance and long life in comparison with normal thick galvanised wire, very high tensile strength

25 kg coil = approx. 625 m
190000

Joint Screw

11

Hot-dip galvanised, for the electrical cross-connection of several wires or for the connection of electric fence cable at the fence

169605 (qty 5)
169625 (qty 25)

Porcelain Strain Insulator

Start and end insulator for high tensile loads, made of porcelain

10

169203 (qty 3)
169210 (qty 10)
169250 (bucket qty 50)

4

Tension Spring – stainless steel

INOX

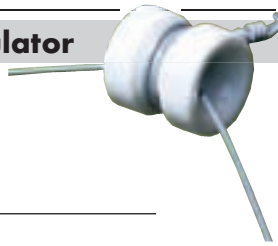
For 2.5 mm steel wire
Rugged item for 2.5 mm steel wire and HippoWire, the inclusion of this spring takes the load out of the wire and the corner posts, it keeps the wire taut during temperature changes: makes the fence resilient

162700

Porcelain Corner Insulator

Corner insulator for high tensile loads, made of porcelain

13



167403 (qty 3)
167410 (qty 10)

Spring Gate Set

9

The practical gate, extends up to 5 m, complete with 1 gate handle, spring, gate handle insulator and ring insulator each

① **164001** **Standard**
② **640001** **Stainless steel, with stainless steel gate handle and gate handle insulator**

Rotating Tensioner

5

Aluminium, allows rapid tensioning and de-tensioning of wires and ropes without cutting them

164303 (qty 3)
164325 (qty 25)

Tensioner Handle

For operating the tensioner

644000 1 tensioner handle

Rotating Tensioner - Starter Pack

6 rotating tensioners + 1 tensioner handle

644001

High Voltage Cable 2.5 mm

8

High voltage-proof, double insulated, single-core cable with 2.5 mm steel core; for fence and earth lead-outs over 50 m; resistance 0.035 ohms/m.

161050 50 m roll
161060 100 m roll
161070 200 m roll

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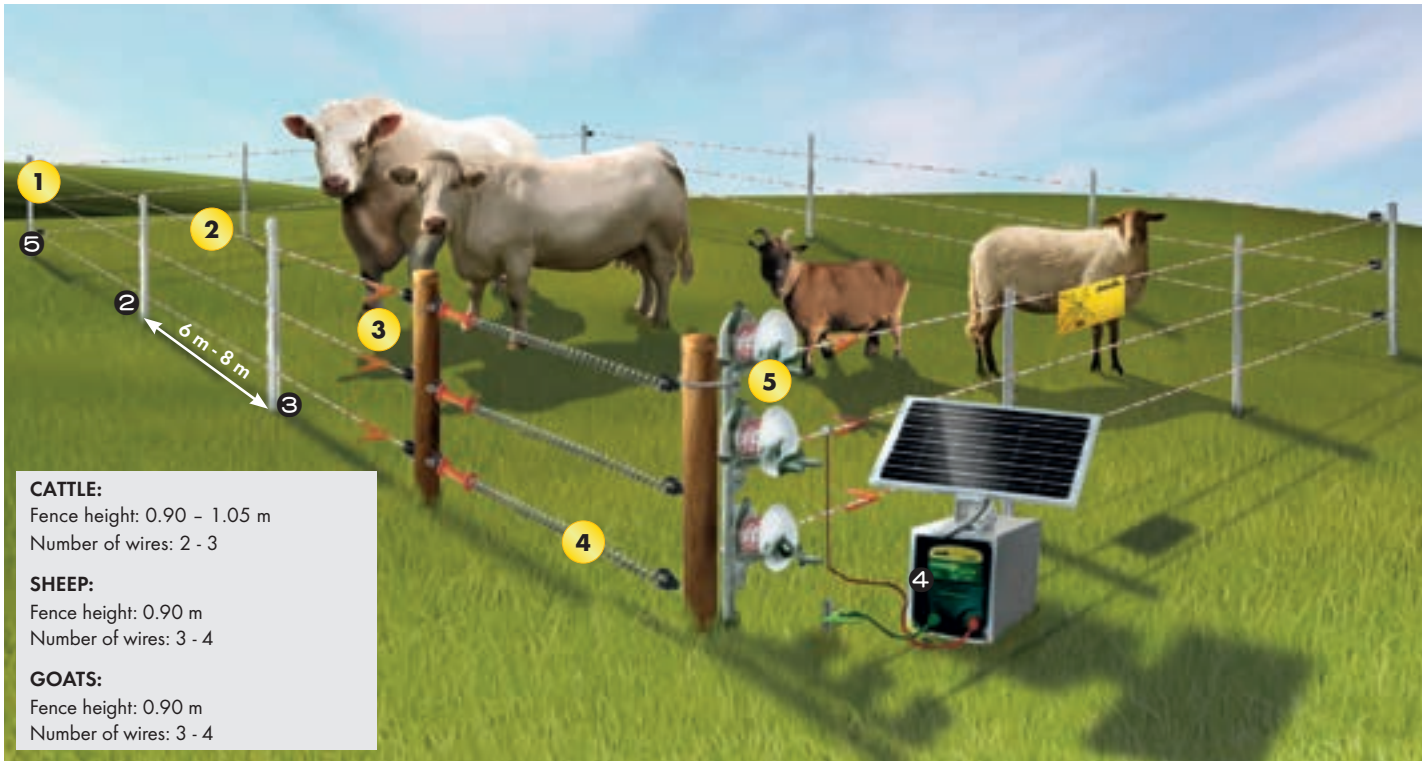
371020	**1.10 - 1.70 m**	**1 vertical brace (mounting dimensions: 1.00 - 1.60 m)**	**24 kg**
371030	**1.45 - 2.00 m**	**1 vertical brace (mounting dimensions: 1.35 - 1.90 m)**	**26 kg**
372030	**2.00 – 3.00 m**	**1 vertical brace (mounting dimensions: 1.90 - 2.90 m)**	**36 kg**
373040	**3.00 – 4.00 m**	**2 vertical braces (mounting dimensions: 2.90 - 3.90 m)**	**47 kg**
374050	**4.00 – 5.00 m**	**3 vertical braces (mounting dimensions: 3.90 - 4.80 m)**	**58 kg**
375060	**5.00 - 6.00 m**	**4 vertical braces (mounting dimensions: 4.80 - 5.80 m)**	**66 kg**



CATTLE:
Fence height: 0.90 – 1.05 m
Number of wires: 2 - 3

SHEEP:
Fence height: 0.90 m
Number of wires: 3 - 4

GOATS:
Fence height: 0.90 m
Number of wires: 3 - 4

PATURA mobile – The temporary fence system

The PATURA temporary fence system is ideal for fencing in areas for a short term or in changing locations. All parts are designed for a quick and easy erection of the fence. It is possible for one person to fence in an area of one hectare completely, and above all safely, in less than half an hour.

Tornado Polywire

2

White-orange, with 1 copper strand Ø 0.30 mm and 5 stainless steel strands Ø 0.20 mm

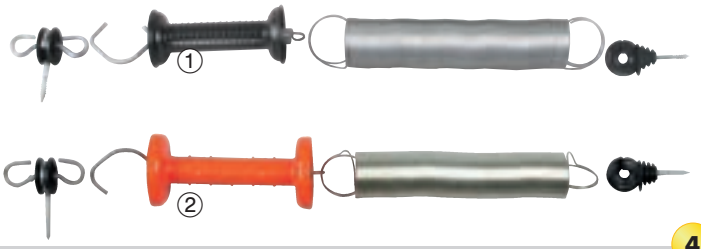
180501 200 m roll
180601 400 m roll
180701 1000 m roll

Tornado XL Polywire

2

White-red, with 3 copper strands Ø 0.30 mm and 8 stainless steel strands Ø 0.20 mm

181001 200 m roll
181101 400 m roll
181201 1000 m roll



Spring Gate Set

4

The practical gate, extends up to 5 m, complete with 1 gate handle, spring, gate handle insulator and ring insulator each

① 164001 Standard
② 640001 Stainless steel, with stainless steel gate handle and gate handle insulator

Fence Connecting Cable

3

With insulated spring clips and stainless steel contacts, quick wire connection for temporary multi-wire fences

2-wire, (qty 2)
101102

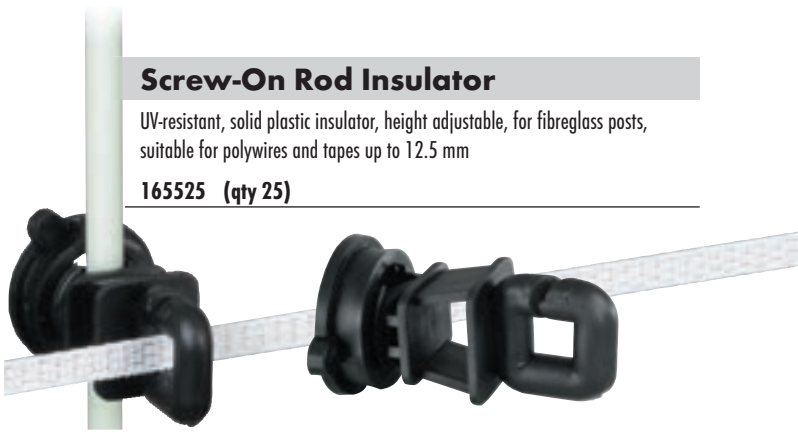
3-wire, (qty 2)
101202

4-wire, (qty 1)
101301

Screw-On Rod Insulator

UV-resistant, solid plastic insulator, height adjustable, for fibreglass posts, suitable for polywires and tapes up to 12.5 mm

165525 (qty 25)



Reel Standard 500

5

With carry handle, mounting hook and ratchet lock for fence tension, up to 500 m of polywire

161001

Reel Maxi 1000

5

With gear system, with carry handle, mounting hook and ratchet lock for fence tension, up to 1000 m of polywire

161501

Reel Special 600

5

With gear system, with carry handle, mounting hook, wire guide and ratchet lock for fence tension, up to 600 m of polywire

161301

Reel Standard 800

5

With carry handle, mounting hook and ratchet lock for fence tension, up to 800 m of polywire

161101

Spring Steel Post with Pigtail Insulator

1.07 m long, round, Ø 7 mm, double welded-on step with tread plate, pointed, large pigtail insulator; fence height 0.86 m

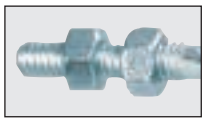
❶ **164220 (qty 10)**

Corner Donut Insulator

1

With wood thread
For redirection of polywires at corners without chafing, black
102206 (qty 6)

With metric thread M8
For redirection of polywires at corners without chafing, black
104206 (qty 6)



Metric thread M8

TwistFix Plastic Post

Robust plastic post with special wire holders for quick and protective wire attachment, 8 holders for polywires and tape up to 12.5 mm

❷ **1.05 m long** (fence height 85 cm)
163410 (qty 10)

Plastic Post

White, robust, fully insulating plastic post with steel spike and double step, fence height 85 cm

❸ **1.05 m 7 wire holders**
163710 (qty 10) white

Standard Mounting Post

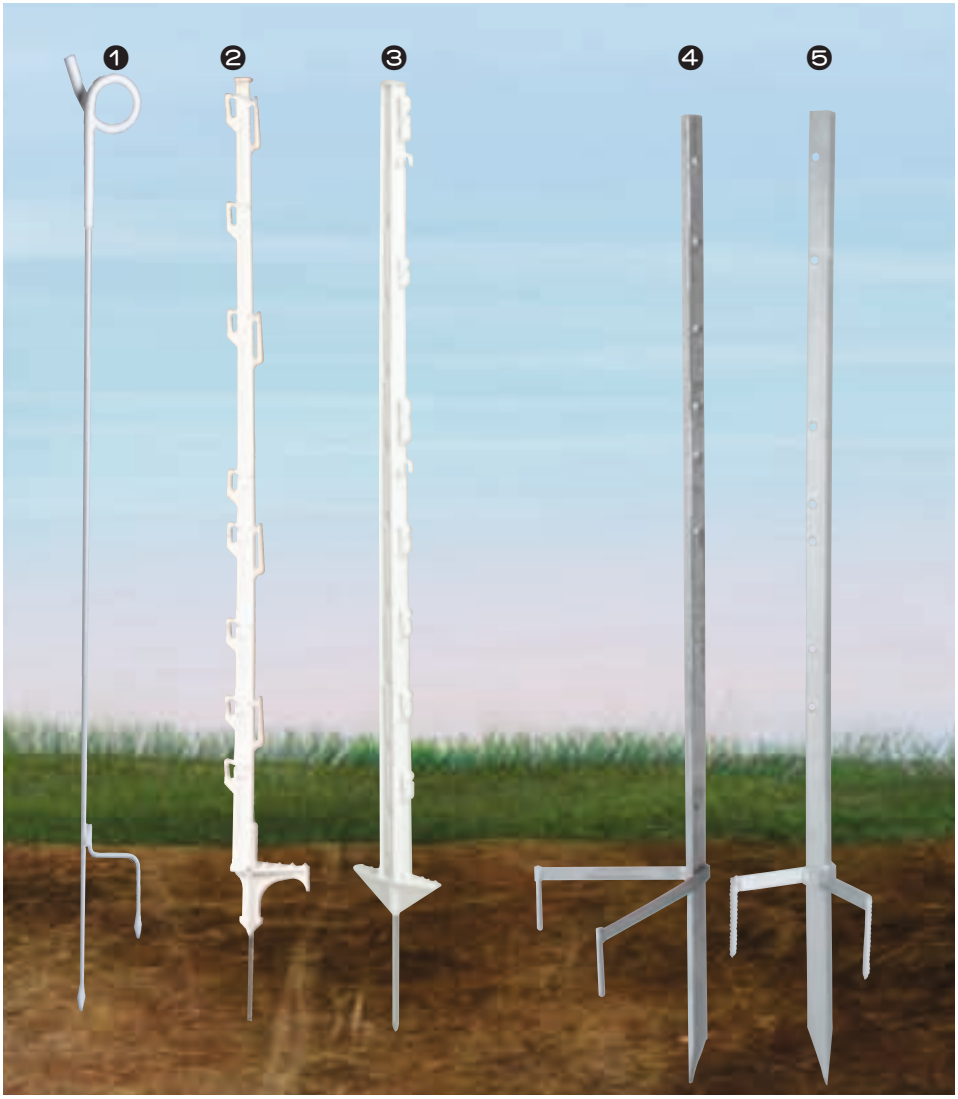
For up to 3 reels
Reels are firmly bolted to the post, fence height to 1.00 m

❹ **635000**

Metal Corner Post Super

Made of sturdy, hot-dip galvanised angle iron, with 3 spikes and pre-drilled holes for insulators such as corner donut insulators or ring insulators

❺ **Short: for fences up to 0.85 m**
104500



PATURA mobile – The temporary fence system to deter wild animals

The PATURA temporary fence system is ideal for fencing in areas for a short-term or in changing locations. All parts are designed for a quick and easy erection of the fence. It is possible for one person to fence in an area of one hectare completely, and above all safely, in less than half an hour.

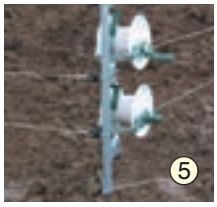
Quick fence construction – step by step

Place mounting post with reels at one corner

Set corner posts at all corners and curves

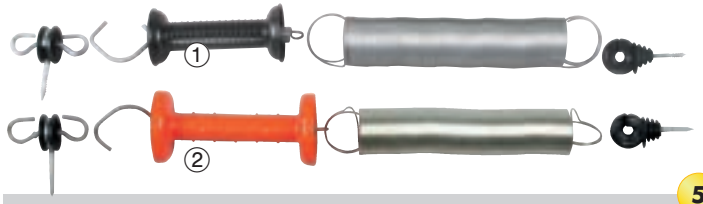
Grab the polywires from the reels and unwind

Run the polywires over the corner insulators



Attach the polywires at the end of the fence and ...

... tension by winding back on the reels



Spring Gate Set

The practical gate, extends up to 5 m, complete with 1 gate handle, spring, gate handle insulator and ring insulator each

① **164001** **Standard**
② **640001** **Stainless steel, with stainless steel gate handle and gate handle insulator**

Push in the plastic posts and attach the polywires

Attach the cross-connections approx. every 200 m

Attach and earth the energiser

Fence Connecting Cable

With insulated spring clips and stainless steel contacts, quick wire connection for temporary multi-wire fences

101102 **2-wire** **(qty 2)**
101202 **3-wire** **(qty 2)**

In just a short time the electric fence is ready for use

Reel Standard 500

7

With carry handle, mounting hook and ratchet lock for fence tension, up to 500 m of polywire

161001

Reel Maxi 1000

7

With gear system, with carry handle, mounting hook and ratchet lock for fence tension, up to 1000 m of polywire

161501

Reel Special 600

7

With gear system, with carry handle, mounting hook, wire guide and ratchet lock for fence tension, up to 600 m of polywire

161301

Reel Standard 800

7

With carry handle, mounting hook and ratchet lock for fence tension, up to 800 m of polywire

161101

Fence Flasher

4

The different approach to fence control, is hooked into wire, polywire or rope and is grounded, a flashing light visible at long distances indicates that the fence voltage is over 3000 V, ideal as warning light for fences to exclude wild boar

150510

TwistFix Plastic Post

9

Robust plastic post with special wire holders for quick and protective wire attachment, 8 holders for polywire and polytape up to 12.5 mm or 4 holders for tape up to 40 mm, 1.05 m long, fence height 0.85 m, white

❶ **163410 (qty 10)**

Tornado XL Polywire

3

White-red, 3 copper strand Ø 0.30 mm and 8 stainless steel strands Ø 0.20 mm

181001 200 m roll
181101 400 m roll
181201 1000 m roll

Plastic Post

9

Robust, fully insulating plastic post with steel spike and double step, 5 or 7 respectively 9 wire holders + 1 or 3 respectively 5 rope holders

❸ **0.73 m, 5 wire holders** (fence height 55 cm)
163310 (qty 10) white

❷ **1.05 m, 7 wire holders** (fence height 85 cm)
163710 (qty 10) white

Tornado Polywire

3

White-orange, 1 copper strand Ø 0.30 mm and 5 stainless steel strands Ø 0.20 mm

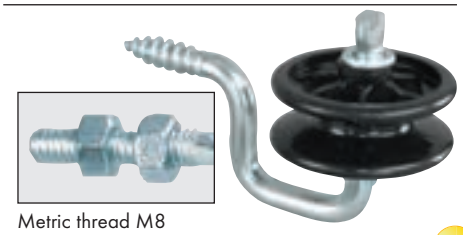
180501 200 m roll
180601 400 m roll
180701 1000 m roll

Standard Mounting Post

6

For up to 3 reels
Reels are firmly bolted to the post, fence height to 1.00 m

❸ **635000**



Metric thread M8

Corner Donut Insulator

2

With wood thread
For redirection of polywires at corners without chafing, black

102206 (qty 6)

With metric thread M8
For redirection of polywires at corners without chafing, black

104206 (qty 6)

Metal Corner Post Super

1

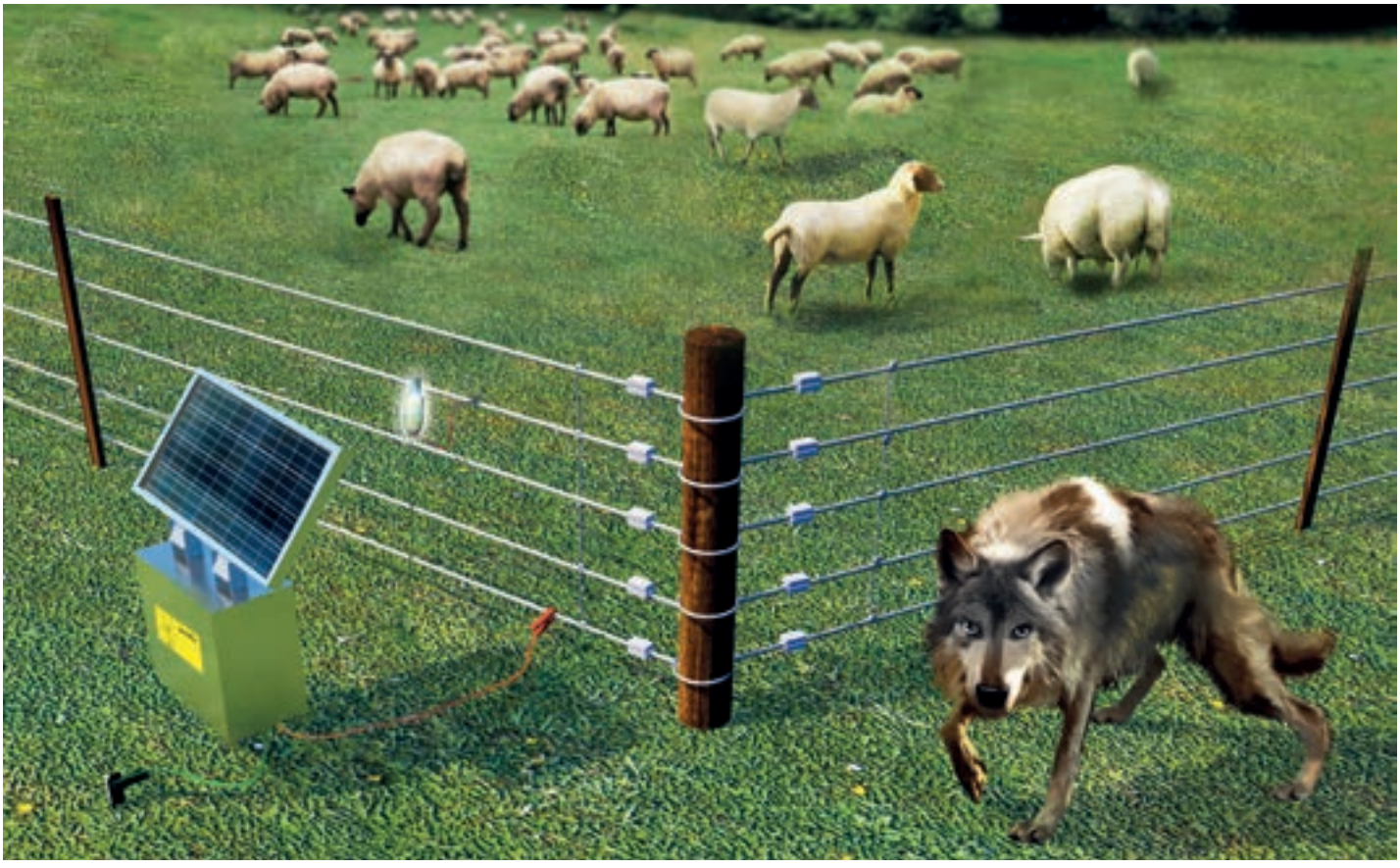
Made of sturdy, hot-dip galvanised angle iron, with 3 spikes and pre-drilled holes for corner insulators like corner donut insulators, ring insulators or strain and corner insulators for polytape

❹ **Short: for fences up to 0.85 m**
104500 (qty 1)

The best way to protect your animals from wolf attacks

For a number of years, the wolf is back in Germany and is spreading rapidly, especially in eastern and northern countries. The government appreciates the fact, for livestock farmers, however, this faces a serious threat. Livestock such as sheep, goats, horses, cattle and especially the young animals provide a relatively easy prey for the wolf. They frequently hunt in packs and disregard traditional fencing. Several German states have adopted guidelines which must be obeyed if possible, because only then the state pays compensation for damage to the livestock, caused by the wolf. Since the extra workload will not be considered by supporting programs, PATURA always tries to recommend practical and work-economical solutions efficiently.

There are different incentive measures for herd protection fences in the different provinces. Please inform yourself about the exact conditions at the responsible authorities.



Permanent electric fences for sheep

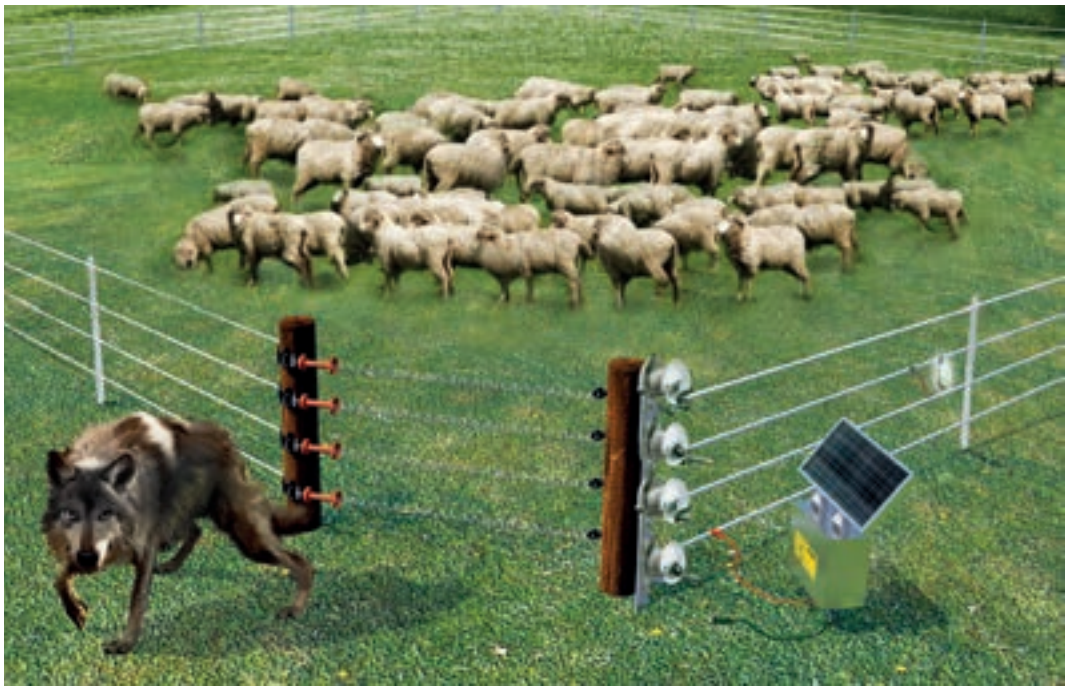
Permanent Electric Fence with 2.5 mm steel wire, 1.20 m high (wire spacing 20/40/65/90/120 cm), 5 conducting steel wires

A138

Please consider the following points when establishing an electric fence to deter wolves:
The conductivity of the fence wiring and the earthing of the energisers are main factors to the deterrent effect of the electric fence on the wolf. These have an enormous impact on the effective intensity of the shock that the animal receives at the fence. It is important that the initial electric shock, which the wolf feels at the fence, immediately unfolds the full effect. In this way, the shock remains firmly in the memory, so the wolf does not approach the fence for a second time. Whether nets, polywire or steel wire - PATURA Tornado products guarantee maximum conductivitiy. It should be noted that the use of electric fences to deter wildlife and especially wild predators such as the wolf, places significantly higher demands on the execution of the fence than containing animals such as sheeps. After a while, animals get used to the function of the fence and avoid the fence respectfully. However, wild animals approach the fence from the outside and less carefully. Especially with animals that come in contact with an electric fence for the first time, the risk is considerable that they do not back off reliably. For that, PATURA recommends the installation of flashlights in the fence to alert approaching animals to the electric fence in a timely manner.

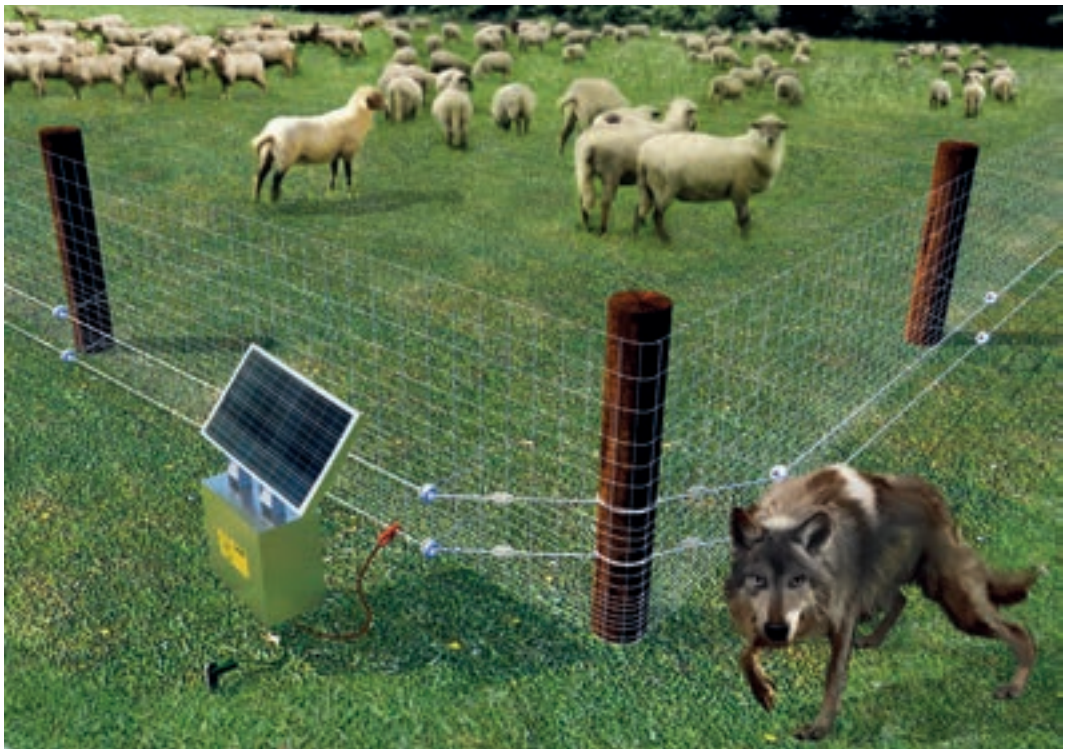
Quick and easy erection of temporary fences for sheep

Mobile Electric Fence with high conductive polywire 0.90 m high (wire spacing 20/40/65/90 cm), 4 high conducting polywires, with reels
Another option:
Mobile Electric Fence with high conductive polywire 0.90 m high (wire spacing 20/40/65/90 cm), 5 high conducting polywires, with reels



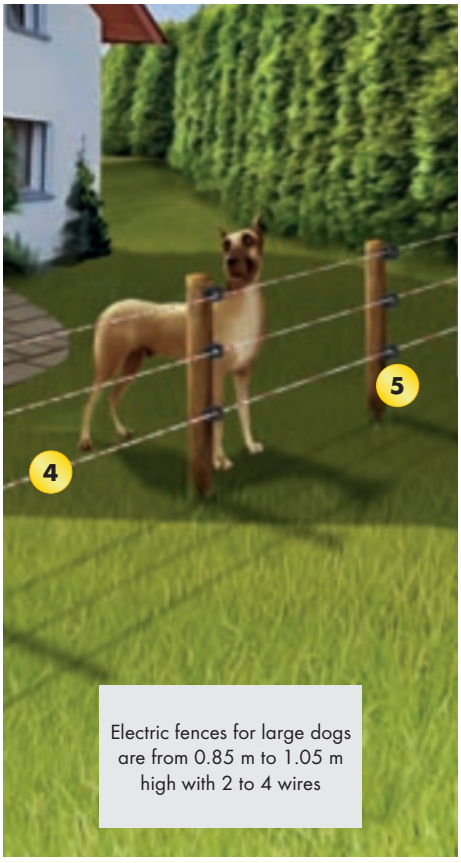
Upgrade existing wire mesh or knotted mesh fences

Increase the security of the fence through 1 - 2 electric wires hold on offset insulators in front of your existing fence. Wolves also dig to reach their prey and this stops the wolf undermining the fence. In case the existing fence isn`t high enough it is possible to put an electric wire on top of it (approx. 120 cm height).



Electric fences for cats are from 0.55 m to 0.75 m high with 3 to 4 wires

Electric fences for small dogs are from 0.55 m to 0.75 m high with 3 to 4 wires



Electric fences for large dogs are from 0.85 m to 1.05 m high with 2 to 4 wires

Even in the garden, an electric fence offers the ideal facility for the effective control of your animals. By means of a short, harmless electric shock they will learn the confines of the electric fence very rapidly, and will respect it from then on. The hobby fence is a further development of professional PATURA electric fence products for application with domestic animals. All pets, but above all dogs and cats, can be quickly and easily monitored.

For particular situations, please ask for detailed advice

Cats: fencing them in - or out

Cats can be easily monitored using an electric fence. They react immediately to light electric shocks. Be careful to build the fence such that the cat can't jump over it, in particular from other normal fences nearby, or from walls or other structures. Please note that your cat needs to get to know the fence, and will need a short settling-in period of 1 – 2 days (max.) to have learned about the fence.

Dogs: fencing them in - or out

Dogs can be very easily controlled with an electric fence. They react immediately to light electric shocks, and take very accurate note, so that in short time they will keep well away from the fence. Dogs are very keen at trying to creep under a bottom wire that has been set too high. By virtue of the greatly differing sizes of dogs, the number of wires and the spaces between them also vary considerably.
Please note that your dog needs to get to know the fence, and will need a short settling-in period of 1 – 2 days (max.) to have learned about the fence.

5

Quality Ring Insulator

With wood thread
High quality plastic, solid shaft attachment, large drip zones, shaft diameter 6 mm, black

101825 (qty 25)

6

Gate Handle Insulator

Stainless steel
Black, wood thread, 2 stainless steel eyelets

102704 (qty 4)

2

Corner Donut Insulator

With wood thread
For redirection of polywires at corners without chafing, black

102206 (qty 6)

Special Gate Handle

1

Orange, with stainless steel hook, stainless steel spring, wide protective shield

639400

Fence Connecting Cable

3

With insulated spring clips and stainless steel contacts, for quick wire connection with multi-wire temporary fences

2-wire, (qty 2)
101102

3-wire, (qty 2)
101202

4-wire, (qty 1)
101301

Warning Sign

"Caution: Electric Fence"
International standards require that warning signs be placed at clearly visible points 100 m apart, at junctions with byways, as well as at points where the existence of an electric fence would not be expected

160103 Plastic
160010 Plastic, printed on both sides, 5 languages
160011 Aluminium, printed on both sides

Compact Polywire

4

White-green, 6 stainless steel strands Ø 0.20 mm

200 m roll
180100

400 m roll
180200

500 m roll, Compact PLUS braided / braided rope
180300

Tornado Polywire

4

White-orange, 1 copper strand Ø 0.30 mm and 5 stainless steel strands Ø 0.20 mm

200 m roll
180501

400 m roll
180601

1000 m roll
180701

Plastic Post

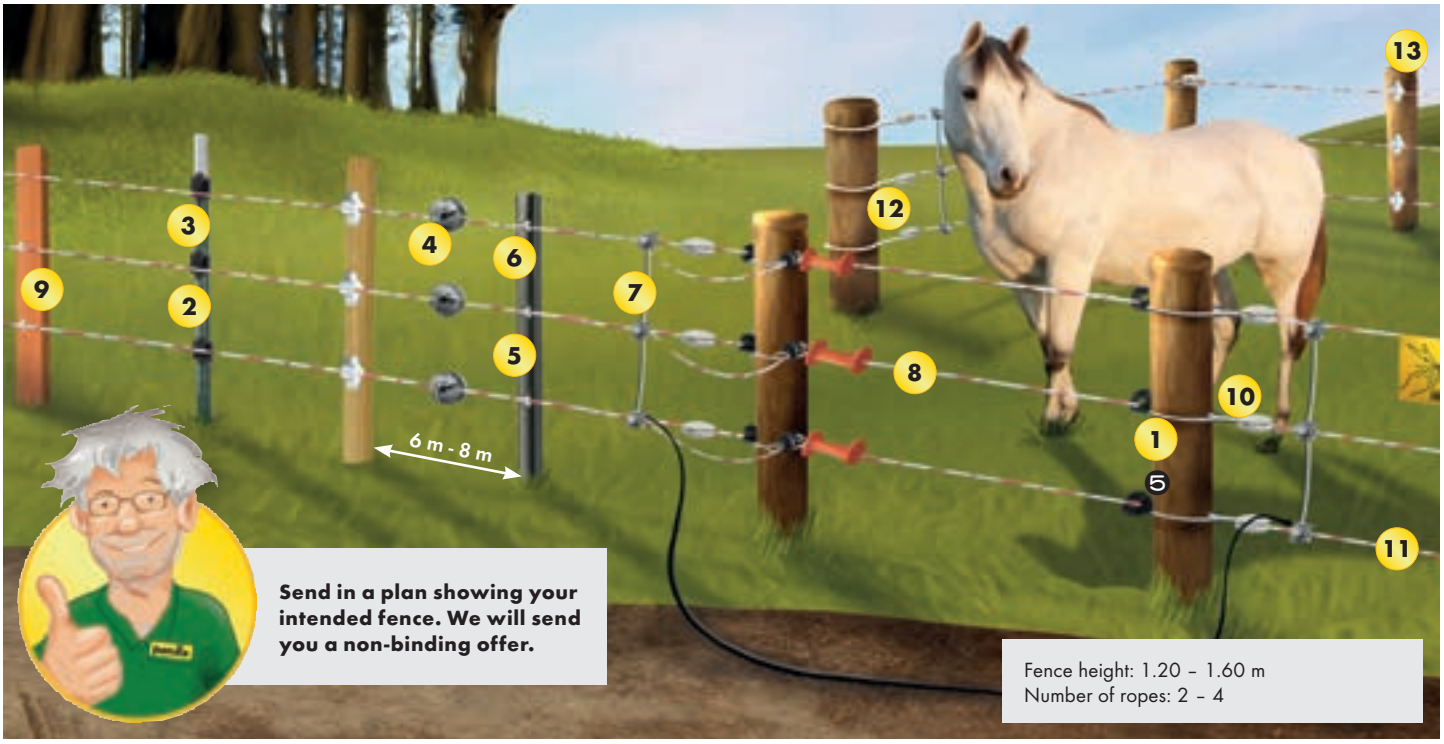
Robust, fully insulating plastic post with steel spike and double step, 5 or 7 wire holders

73 cm **5 wire holders**
(fence height 55 cm)

163320 **(qty 10) green**

105 cm **7 wire holders**
(fence height 85 cm)

163720 **(qty 10) green**



The semi-permanent equestrian fence

The PATURA rope fence is constructed using the self-insulating PATURA hardwood in conjunction with Tornado rope. Alternatively, T-Posts or X-profile posts can be used. It is suitable for a peripheral fencing of large pastures, and to the subdivision of large paddocks. The PATURA rope fence is an easily visible equestrian fence that easily withstands the effects of wind and weather.

T-Posts, painted

2

Robust post of recycled steel, painted green, with solid base plate
l = 1.67 m / max fence height: 1.27 m / 3.4 kg
l = 1.82 m / max fence height: 1.42 m / 3.7 kg
l = 2.13 m / max fence height: 1.73 m / 4.3 kg

171600 1.67 m
171800 1.82 m
172100 2.13 m

Heavy-Duty Pinlock Insulator

3

For T-Posts
For wire, polywires and rope, with pin for easy fastening and releasing of the wire

black, (qty 25)
171025

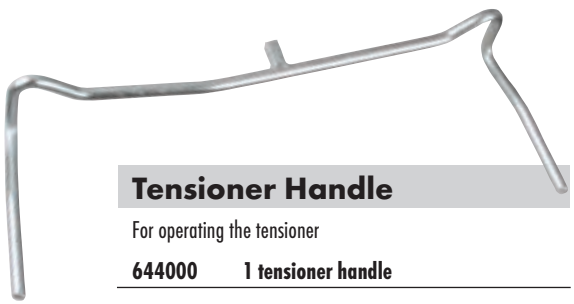
black, (qty 500)
171090

X-Profile Post

5

High quality recycled plastic post, pointed, ground water neutral, resistant to acids, salts, water and frost, UV-resistant and rot-proof, with drill holes for wire clips, rugged X-profile 70 x 70 mm

218500 1.85 m



Tensioner Handle

For operating the tensioner

644000 1 tensioner handle

Rotating Tensioner

4

Aluminium, allows rapid tensioning and de-tensioning of wires and ropes without cutting them

164303 (qty 3)
164325 (qty 25)

Rotating Tensioner - Starter Pack

6440016 rotating wire tensioners + 1 tensioner handle

Insultube

12

Plastic
Suitable as strain assembly for rope, transparent

161405 (5 m)

Strain Insulator

10

Start and end insulator for high tensile loads, plastic, black

167706 (qty 6)
167725 (qty 25)
167760 (bucket qty 100)

Super Strain Insulator

10

Start and end insulator for high tensile loads, fibreglass-reinforced plastic, white

167806 (qty 6)
167825 (qty 25)
167860 (bucket qty 100)

Angle Clamp

7

Hot-dip galvanised; ideal for connecting, clamping and for electrical cross-connection of polyrope

169505 (qty 5)
169525 (qty 25)

Permanent Fence Insulator

13

For ropes and HippoWire
Solid, UV resistant plastic insulator, mount using screws, white
Mounting tip: In curves, the insulator must be installed to apply pressure on the post

168325 white, (qty 25)
168425 black, (qty 25)

Elastic Rope Gate Set

8

Complete with gate handle, insulators and 3 m elastic, current conducting rope

641201 16,25 € **19,50 €**

Tornado Polywire

11

White-orange, 1 copper strand Ø 0.30 mm and 5 stainless steel strands Ø 0.20 mm

182501 200 m roll
182601 500 m roll

Tornado XL Polywire

11

White-red, 3 copper strands Ø 0.30 mm and 8 stainless steel strands Ø 0.20 mm

200 m roll
183001

500 m roll
183101

Tie Clip

6

For attaching wire, HippoWire and rope to wooden or X-profile posts

Clips short
170560 (qty 100)

Hardwood Post

9

Insulating hardwood posts for an electric fence without insulators, not impregnated but extremely durable

❶ 177200 1.80 m
❷ 178400 2.10 m

Wooden Post

1

Pressure-impregnated wood post with chrome-free KS-M wood preservative, stripped, pointed and chamfered.

❸ Diameter 7 cm
Impregnated to the RAL quality standard, ideal as posts in straight sections of a permanent fence system

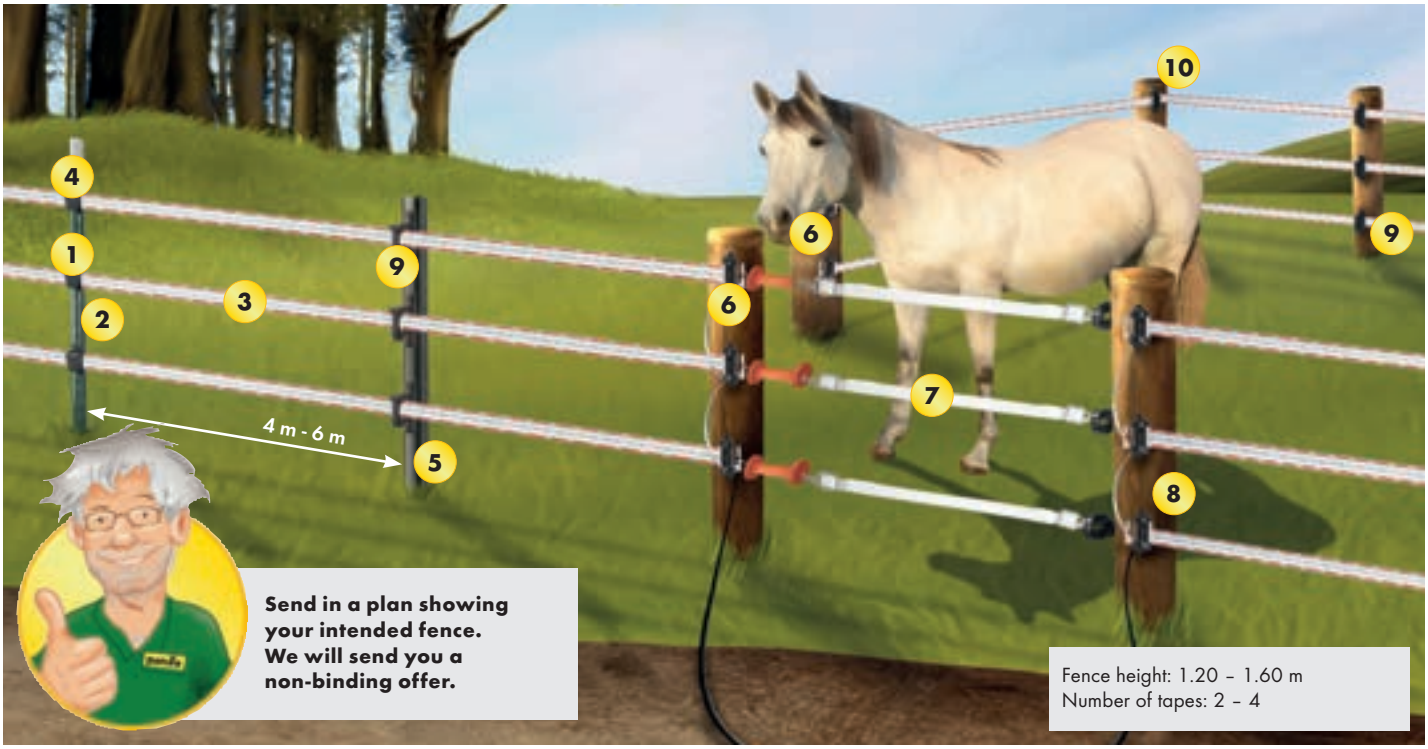
175050 1.75 m

❹ Diameter 10 cm
Impregnated to the RAL quality standard, ideal as posts in a permanent fence system where there is a slight change in fence direction

200150 2.00 m
225150 2.25 m
250150 2.50 m

❺ Diameter 16 – 18 cm
Perforated in the above/below ground interface and impregnated to the RAL quality standard, ideal as corner, tension and gate posts in permanent fence systems, 10-year warranty

225000 2.25 m
250000 2.50 m
275000 2.75 m



The most visible equestrian fence

Polytape fences are still the most frequently used equestrian fences. PATURA polytape fences meet the demands of security and visibility expected of a polytape fence in a special way. Providing that the correct materials are used, such as edge-strengthened PATURA Tornado polytape and PATURA polytape insulators, the fence will be extremely resistant to the effects of wind and weather.

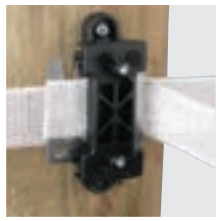
Polytape Corner Insulator: used as sturdy corner insulator

Polytape Strain and Corner Insulator: used as start insulator

Polytape Strain and Corner Insulator: used as insulator with gate connection

Polytape Strain and Corner Insulator: used as cross-connection for tapes

Polytape Strain and Corner Insulator: used as insulator and tape connector



Polytape Strain and Corner Insulator: used as 3-way insulator

Tornado Polytape 38 mm

3

White-orange, 1 copper strand Ø 0.30 mm and 11 stainless steel strands Ø 0.16 mm

200 m roll, (qty 1), white-orange
189001

200 m roll, (qty 1), brown
189101

Tornado XL Polytape 40 mm

3

White-red, 3 copper strands Ø 0.30 mm and 11 stainless steel strands Ø 0.16 mm

200 m roll, (qty 1)
189501

The 40 mm polytape fence – optimum visibility

TORNADO Polytape Insulator

9

Solid plastic
Rugged line insulator for holding polytape tightly, suitable for all tapes up to 40 mm, safe and protective clamping of the tape due to offset rubber inserts, black

166920 (qty 20)

Polytape Strain Insulator

6

With stainless steel connector plate
Sturdy insulator with stainless steel connector plate for polytape up to 40 mm

167103 (qty 3)

Cap Insulator

4

For T-Posts; For tapes up to 40 mm, ropes and polywires, protects against injuries from sharp, jagged post tops

black, (qty 10)
171210
yellow, (qty 10)
173210

Polytape Corner Insulator

10

Solid plastic
Sturdy insulator for polytape up to 40 mm, clamps the tape safely between 2 faces, ideal as corner insulator for 40 mm polytape

167003 (qty 3)

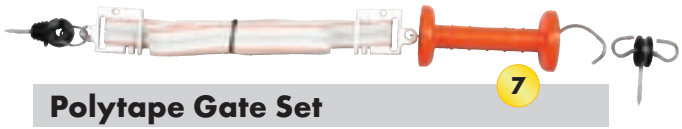
Polytape Insulator

1

For T-posts
For polytape up to 40 mm

black, (qty 25)
173125

yellow, (qty 25)
171125



Polytape Gate Set

7

Complete with gate handle, insulators and 5 m polytape

641001

High Voltage Cable 1.6 mm

Double insulated, single-core cable with 1.6 mm steel core, for fence and earth leadouts or for gates, resistance 0.1 ohms/m

160910 10 m roll
160925 25 m roll
160950 50 m roll
160960 100 m roll

Wooden Posts

8

Pressure-impregnated wood post with chrome-free KS-M wood preservative, stripped, pointed and chamfered.

❸ **Diameter 7 cm**
Impregnated to the RAL quality standard, ideal as posts in straight sections of a permanent installation

175050 1.75 m

❹ **Diameter 10 cm**
Impregnated to the RAL quality standard, ideal as posts in a permanent installation where there is a slight change in fence direction

200150 2.00 m
225150 2.25 m
250150 2.50 m

❺ **Diameter 16 – 18 cm**
Perforated in the above/below ground interface and impregnated to the RAL quality standard, ideal as corner, tension and gate posts in permanent fence systems, 10-year warranty

225000	**2.25 m**
250000	**2.50 m**
275000	**2.75 m**

T-Post, painted

2

Robust post of recycled steel, painted green, with solid base plate

l = 1.67 m / max fence height: 1.27 m / 3.4 kg
l = 1.82 m / max fence height: 1.42 m / 3.7 kg
l = 2.13 m / max fence height: 1.73 m / 4.3 kg

	171600	**1.67 m**
❷	**171800**	**1.82 m**
	172100	**2.13 m**

X-Profile Post

5

High quality recycled plastic post, pointed, ground water neutral, resistant to acids, salts, water and frost, UV-resistant and rot-proof, with holes for wire clip, rugged X-profile 70 x 70 mm

❶ **218500** **1.85 m**

Special Wood Screw

4.5 x 35 mm, galvanised, for the attachment of permanent fence insulators and polytape insulators

135060 (qty 100)

PATURA HippoWire: the better alternative

The PATURA HippoWire fence system combines the best visibility with optimum current flow. At 4 points conductive black plastic comes to the surface and ensures optimal current transfer. Due to the smooth outer surface, injuries are practically excluded. The material is extremely durable and is designed for a long life.

HippoWire

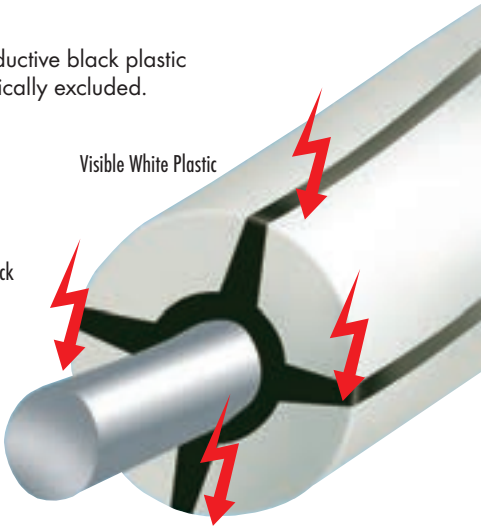
2

with conducting plastic coated 2.5 mm steel wire, Ø approx. 7 mm, ideal for horsewires

304 m coil, white
190400

304 m coil, brown
190410

10 year WARRANTY



Configuration of the conducting HippoWire

High Voltage Cable 2.5 mm

7

High voltage-proof, double insulated, single-core cable with 2.5 mm steel core; for fence and earth lead-outs over 50 m; resistance 0.035 ohms/m.

161050 50 m roll
161060 100 m roll
161070 200 m roll

Recommended by professionals!

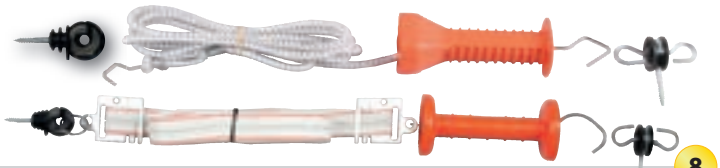
Martin Schaudt on his horse "Weltall"

Joint Screw

5

Hot-dip galvanised, for the electrical cross-connection of several wires or for connecting the high-voltage cable with the fence

169605 (qty 5)
169625 (qty 25)



Elastic Rope/Polytape Gate Set

8

Each complete with gate handle, insulators and 3 m elastic, current conducting rope or 5 m polytape

641201 with elastic rope
641001 with polytape

Tension Spring, stainless steel

9

For HippoWire
Rugged item for HippoWire, the inclusion of this spring takes the load out of the wire and the corner posts, it keeps the wire taut during temperature changes: makes the fence resilient

162700

Tensioner Handle

For operating the tensioner

644000 1 tensioner handle

X-Profile Post

4

High quality recycled plastic post, pointed, ground water neutral, resistant to acids, salts, water and frost, UV-resistant and rot-proof, with holes for wire clip, rugged X-profile
70 x 70 mm

❶ **218500 1.85 m**

Tie Clip

3

For HippoWire on hardwood or X-profile posts

Clips short
170560 (qty 100)

T-Post, painted

Robust post of recycled steel, painted green, with solid base plate

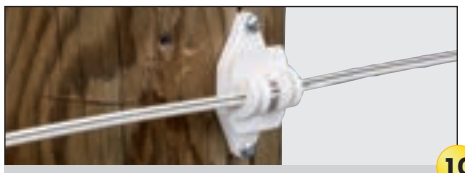
l = 1.67 m / max fence height: 1.27 m / 3.4 kg
l = 1.82 m / max fence height: 1.42 m / 3.7 kg
l = 2.13 m / max fence height: 1.73 m / 4.3 kg

171600 1.67 m
❷ **171800 1.82 m**
172100 2.13 m

Cap Insulator

For T-Posts; For tapes up to 40 mm, ropes and polywires, protects against injuries from sharp, jagged post tops

black, (qty 10)
171210
yellow, (qty 10)
173210



Permanent Fence Insulator

10

For ropes and HippoWire; solid, UV resistant plastic insulator, mount using screws

168325 white, (qty 25)
168425 black, (qty 25)

Porcelain Strain Insulator

6

Start and end insulator for high tensile loads, made of porcelain

169203 (qty 3)
169210 (qty 10)
169250 (bucket qty 50)

Rotating Tensioner

1

Aluminium, allows rapid tensioning and de-tensioning of wires and ropes without cutting them

164303 (qty 3)
164325 (qty 25)

Hardwood Post

11

Insulating hardwood posts for an electric fence without insulators, not impregnated but extremely durable

❸ **177200 1.80 m**
❸ **178400 2.10 m**

Wooden Post

Pressure-impregnated wood post with chrome-free KS-M wood preservative, stripped, pointed and chamfered.

❹ **Diameter 10 cm**
Impregnated to the RAL quality standard, ideal as posts in a permanent installation where there is a slight change in fence direction

200150 2.00 m
225150 2.25 m
250150 2.50 m

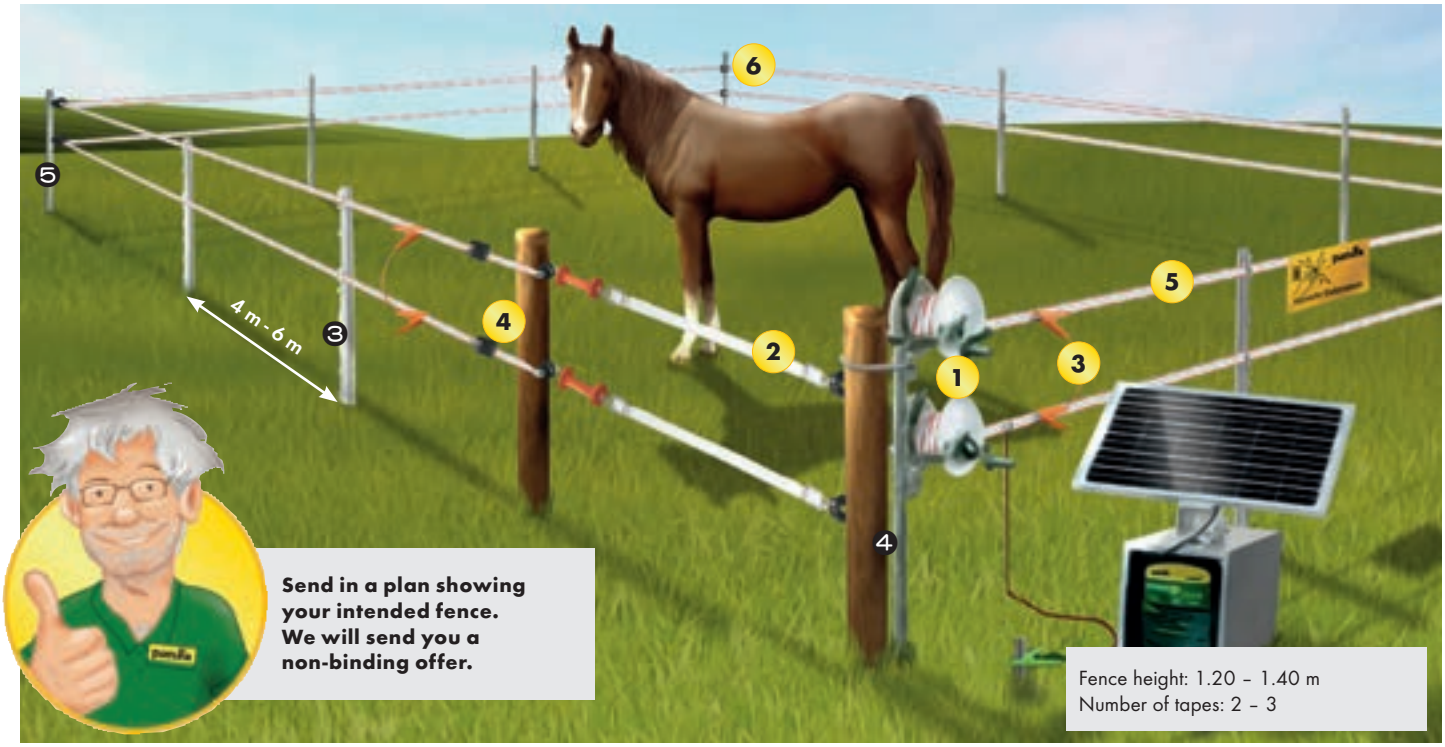
❺ **Diameter 16 – 18 cm**
Perforated in the above/below ground interface and impregnated to the RAL quality standard, ideal as corner, tension and gate posts in permanent fence installations, 10 year warranty

225000 2.25 m
250000 2.50 m
275000 2.75 m

XL-Insulator with pin

For T-Posts
For wire, polywire rope and HippoWire, with pin for easy fastening and releasing of the wire

black, (qty 25)
174125



PATURA Mobile – the portable fence system for horses

The PATURA temporary fence system is ideal for fencing in areas for a short term or in changing locations. All parts are designed for a quick and easy erection of the fence. It is possible for one person to fence in an area of one hectare completely, and above all safely, in less than half an hour.

Tornado Polytape

5

12.5 mm
White-orange, 1 copper strand Ø 0.30 mm and 4 stainless steel strands Ø 0.20 mm

185001 200 m roll
185101 400 m roll

Tornado XL Polytape

12.5 mm
White-orange, 2 copper strand Ø 0.30 mm and 5 stainless steel strands Ø 0.20 mm

185501 200 m roll
185601 400 m roll

Screw-On Rod Insulator

UV-resistant, solid plastic insulator, height adjustable, for fibreglass posts, suitable for polywires and tapes up to 12.5 mm

165525 (qty 25)

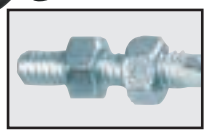
Quality Ring Insulator

6

High quality plastic, shaft diameter 6 mm

with wood thread
101825 (qty 25)

with metric thread M6
102425 (qty 25)


metric thread M6

Tape Joiner

Good connection, no corrosion, optimum current flow

10 - 12.5 mm (qty 5)
103305

Polytape Buckle

4

Easily adjustable start and end connection for polytapes, allows a rapid re-tensioning

12.5 mm (qty 5)
103605

Fence Connecting Cable

3

With insulated spring clips and stainless steel contacts, quick wire connection for temporary multi-wire fences

101102 2-wire (qty 2)
101202 3-wire (qty 2)

Reel Standard 500

With carry handle, mounting hook and ratchet lock for fence tension, up to 500 m of polywire

161001

Reel Standard 800

With carry handle, mounting hook and ratchet lock for fence tension, up to 800 m of polywire

161101

Fibreglass Post

Made of fibreglass strengthened polyester resin of nearly unlimited life span, glued on step, pointed tip, Ø 10 mm

❶ **1.60 m** (fence height 135 cm)
116010 (qty 10)

Clip, stainless steel

For an easy mounting of small sized polytapes or polywires to round fibreglass posts

for fibreglass post Ø 10 mm
113100 (qty 25)

Stirrup Post

Fibreglass reinforced, fully insulating plastic post; steel spike; strong stirrup style treadins for easy ground insertion

❷ **155 cm,** 8 wire holders (Fence height: 1.30 m)
163610 (qty 10) white

Plastic Post

White, robust, fully insulating plastic post, with steel spike and double step

❸ **155 cm, 8 wire holders** (fence height 130 cm)
163810 (qty 10) white

Standard Mounting Post

For up to 4 reels
Reels are firmly bolted to the post, fence height to 1.35 m

❹ **634000**

Metal Corner Post Super

Made of sturdy, hot-dip galvanised angle iron, with 3 spikes and pre-drilled holes for corner insulators such as ring insulators with metric thread M6

❺ **Long: for fences up to 1.35 m**
104600 (qty 1)

Reel Maxi 1000

With gear system,
with carry handle, mounting hook and ratchet lock for fence tension, up to 1000 m of polywire

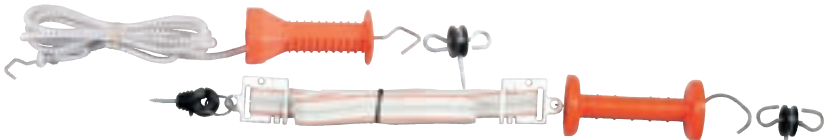
161501

Reel Special 600

1

With gear system,
With carry handle, mounting hook, wire guide and ratchet lock for fence tension, up to 600 m of polywire

161301

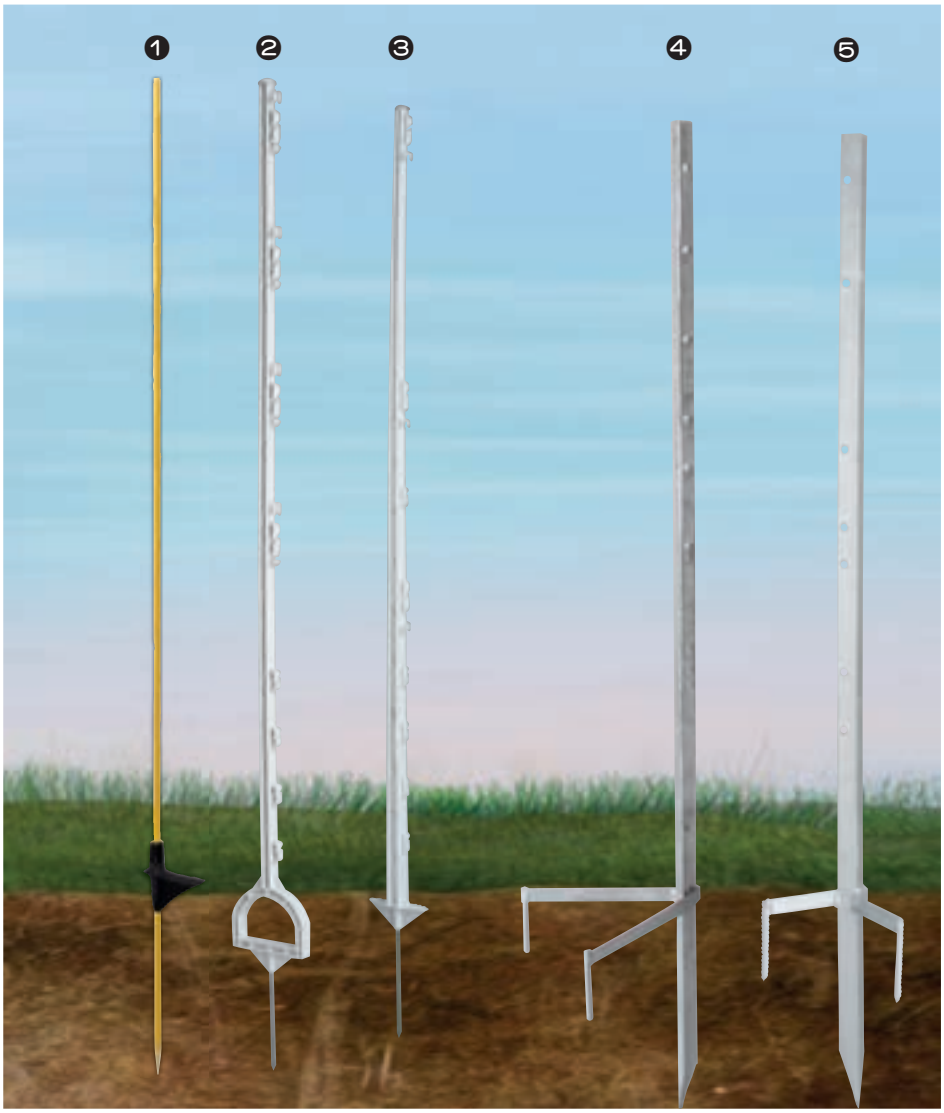


Elastic Rope/Polytape Gate Set

2

Complete with gate handle, insulators and 3 m elastic, current conducting rope or 5 m polytape

641201 with elastic rope
641001 with polytape



Let your local PATURA dealer advise you:

- Competent advice from specialists trained by us
- Generally, all products from the PATURA display units are available
- Our 24-hour delivery service supplies practically all products overnight (for countries bordering Germany + 1 to 2 days)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Your local specialist dealer:

www.patura.com

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