



ELECTRIC FENCING

2024



ELECTRIC FENCING FOR ALL ANIMALS



www.koltec.eu

KOLTEC: DUTCH TOP QUALITY FOR MORE THAN 80 YEARS



KOLTEC -The specialist in electric fences- has been going for a while. KOLTEC was established in 1942 and focuses from 1945 completely on the production and application of electric fences. With own injection moulding machines, transformer winding machines and printed circuit board production, KOLTEC has the product development and production at home.

A good electric fence consists of several parts, such as among others an electric fencer, insulators, conductors, connections and earthing. To have this function effectively it is important that it is adjusted to the animal type and environmental factors such as for example growth of weeds/grass. Besides that it can only function properly if regular maintenance is carried out.

KOLTEC tries in her advice and product range to make it as easy as possible for her users to install a good fence and also keep it functional. We do everything we can to put together products in a practical way. For example we make pre-mounted solutions that help installer to build a fence quicker. This in turn allows them to keep installation costs low.

FOCUS ON ONE PRODUCT

The focus of our family business lies completely on electric fences and related products. This is unique compared to other providers of this type of equipment. Important to mention is that the KOLTEC products are of top Dutch quality. KOLTEC is a Dutch producer, also works together with local, specialised production companies and buys where possible her parts in the Netherlands.

FLEXIBILITY, CREATIVITY AND QUALITY

KOLTEC has established inside her quality system core values. In the first place we are, thanks to our small size, very flexible. Within our production we can switch quickly to the needs of our customer. That we create solutions for nature organisations worldwide, like World Wide Fund for Nature, landscape managers and zoos, endorses that we are also creative. In addition, quality is our top priority, a core value endorsed by our ISO certification. Our fences are all delivered with 5 year warranty.



SOCIAL AND SUSTAINABLE

Furthermore KOLTEC is also a social company. Social to our staff members and we offer work to local day care for the disabled and sheltered employment agencies. As company we do a lot to produce sustainable. Our complete electricity need is amply covered by the electricity production from solar panels on the roof of our business premises. The fences we develop and produce should also be economical in use, especially if they function on a battery, wet cell battery or in combination with a solar panel. Furthermore, we want to manufacture as many products as possible locally to keep the CO2 emissions from transport as low as possible. Also this year we have taken another 3 new moulds into use, with which we can produce even more products ourselves.

We have had a challenging year. Due to international developments, 2024 will also be a year full of challenges. Developments over which we have no control. We anticipate them with our purchasing and production. We will continue to do our utmost to ensure that we remain a reliable producer/supplier.

Hilko Dammer
Managing Director



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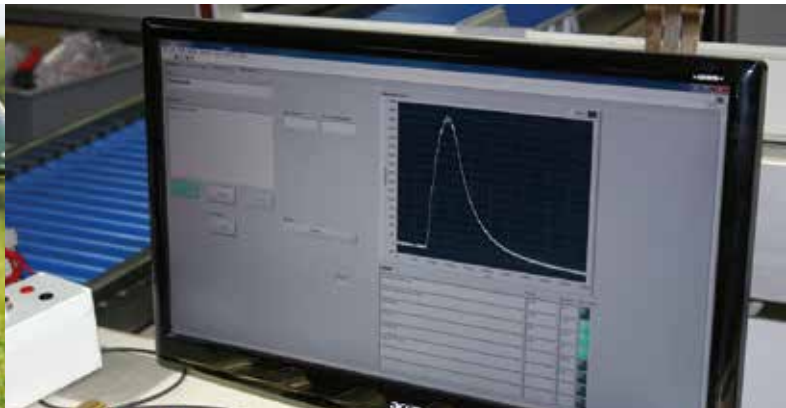
ABOUT KOLTEC

HISTORY

KOLTEC BV was established in 1942 in Breda. Since 1945 there is the production of electric fences.

The present ST, the mushroom model, was basically the first fence that was produced.

KOLTEC BV is still a family business that has specialized in the production and utilization of electric fences.



SERVICE

Our skilled employees take care for a good advice before and after the product is bought. Satisfied users are our most important business card. Feed back from users about the installation of an electric fence, inspires us to develop better and new products.

REPAIR

KOLTEC has skilled technical employees, who take care of the repair of broken devices, but also develop new devices. Because this is in one hand, the experience of end users is used to develop better products.

PRODUCTION

All devices and part of the accessories which are sold by KOLTEC are produced, assembled and packed in our factory in Breda, Holland. You are buying a real Dutch made product.



RESEARCH AND DEVELOPMENT

On our own department R&D new products are developed. Besides developing and testing new concepts, there is also done field research e.g. for testing and improving new conductors.

DELIVERY SERVICE & STOCK

Because we produce most of our product range ourselves, the delivery service is very fast and flexible. Our goal is to have seldom out of stock positions.



5 YEARS WARRANTY !

KOLTEC improves its internal organization every year. It also constantly improves the quality of its products.

In 2017 this resulted in obtaining the ISO 9001 certificate.

Every year the KOLTEC organization is audited by an external agency to check whether KOLTEC still complies with the ISO 9001 standards.

To also underline the superior quality of our devices, KOLTEC gives a 5 YEAR WARRANTY with the purchase of a KOLTEC energiser.

As an aid, you can register the purchase of your KOLTEC energiser on the KOLTEC website. But for a warranty request, submitting your proof of purchase is also sufficient.

The warranty conditions can be found on the website www.koltec.nl/service/warranty



KOLTEC = more than 80 years your guarantee for superior DUTCH quality.

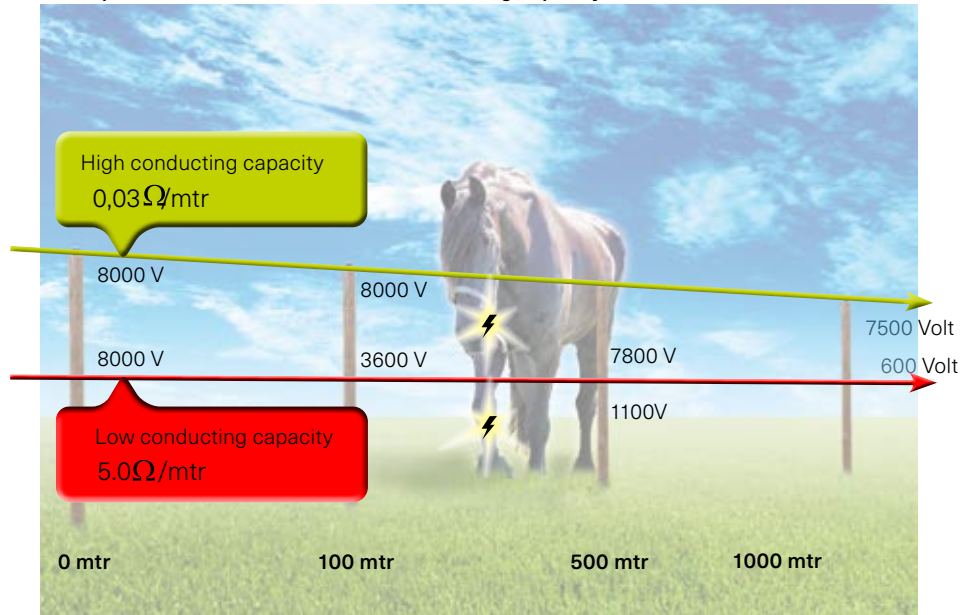


CEE Application length

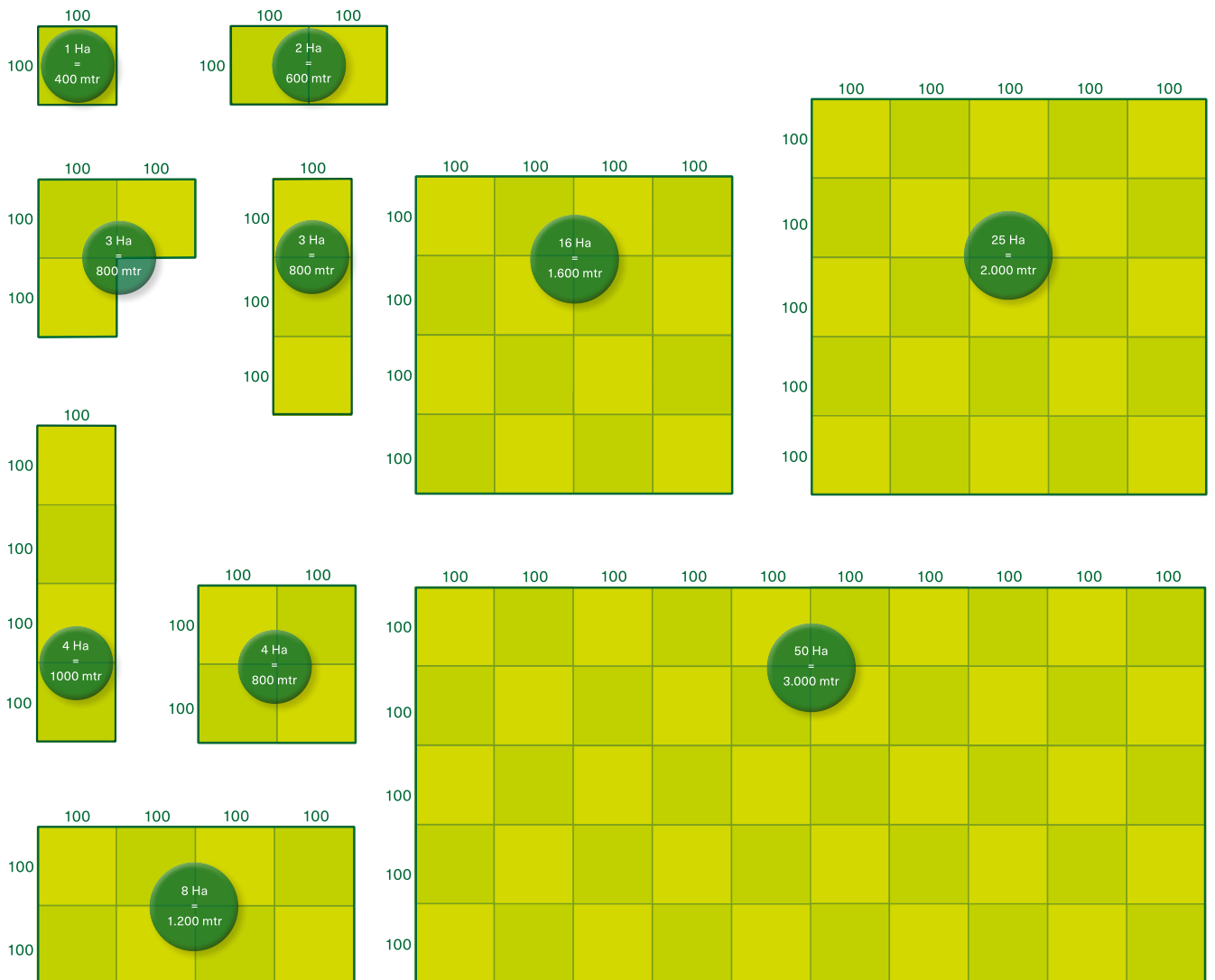
This is the length of your fence, based on an ideal wire at one meter and at 20 degree celcius, where the tension at the end of the wire is still 1.500 Volt. This length will be shorter with wires on lower heights, vegetation growth and wire with a higher resistance. The length will again be influenced negative by the use of poly wire with a higher resistance.

"From 1.500 Volt a shock is starting to be effective for animals."

Example indication of difference in conducting capacity




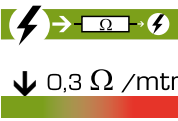

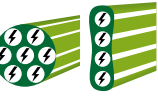


Application length (Single):



Energisers

	Supply on 230 Volt Mains		Supply on 9 or 12 Volt battery, consumption is less than 50 mA		Supply on 12 Volt battery, consumption is higher than 50 mA		Consumption in milli-ampère (mA) or Watt
	Peak power, the tension without connection to a complete fence		Tension that remains after the touch of an animal (500 Ohm)	<p>Volt The unity of electric power is Volt. With electric fencing one uses the power to transfer the energy. Power $U (V=Volt) = Energy I (A=Ampere) \times Resistance R (\Omega=Ohm)$.</p> <p>Joule Energy which is being put off as power to the wire per shock/impulse, one measures in Joules. $1 Joule = 1 Watt (W) \text{ per second} = R^2 I^2 \cdot dt$ One feels this energy when one is touching the fence wire.</p> <p>Loading or stored energy The loading energy of the fencer shows how much energy is being absorbed from the power source (mains, (wet) battery) into the capacitor. A higher stored energy means that the fencer uses more energy. The proportion between stored energy and the impulse energy shows the efficiency of the fencer. A high proportion means that much energy is getting lost, and not applied to the conductors.</p> <p>Impulse energy Through the discharge of the capacitor the fencer transfers the stored energy to the conductors (wire, tape, rope etc.). One calls this shock/impulse discharge energy, also known as impulse energy. The impulse energy is often shown unloaded. Officially the impulse energy, which remains with a resistance of 500 Ohm, has to be shown. This value determines the real strength of the fencer, the shock that the animal feels when it is touching the electric fence.</p>			
	Stored energy, energy that is gathered out of the supply source		Impulse energy, the energy max. produced by the device when touched by an animal (500 Ohm)				
	Info by digital display		Alarm at tension drop under 2.000 Volt				
	On/off switch at hand		Third connection with half output tension				
	High-low-switch, which switches automatically based on the light.		High-low-switch for energy saving				
	Changing tension levels in case of growth and other short circuits		Growths indication by LED				
	Charge indication of the battery		Also mains option				
	Solar panel at hand or optional		Battery control function				
	Build-in lightning diverter		Safety time delay for the boost function				
	Discharge protection, takes care that the battery is not charged lower than 10,5 Volt.		Maximum fence length in Km according CEE statement (Capacitive)				
	5 year warranty on energisers		Maximum fence length in Km by no growth on a fence				
	Connection set enclosed		Maximum fence length in Km average growth on a fence				
	Return voltage measuring		Surface in Ha				

Conductors

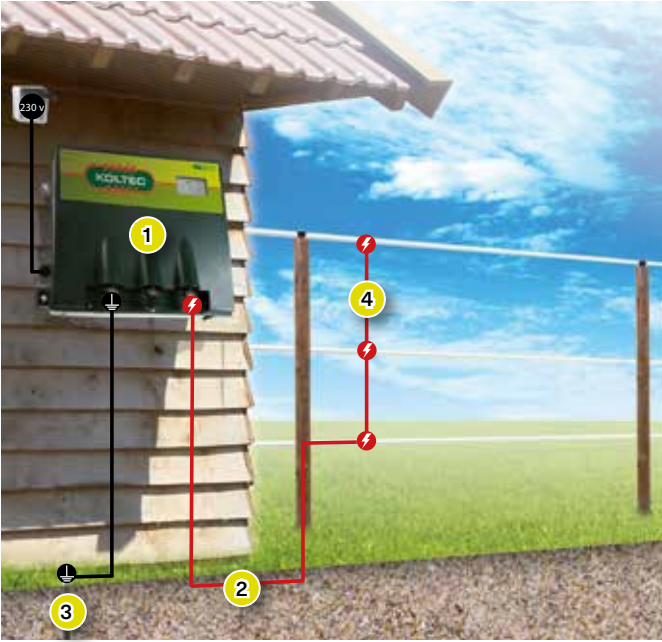
	Suitable for longer fences		Indication resistance in Ohm per (Kilo)Meter. A lower number means less resistance and therefore more current/volts over a longer distance. The further the arrow points to red, the higher the resistance of this product.
	Suitable for fences with a maximum fence length of 200 mtr		Number of connectors in or round wire, rope or tape. More and thicker connectors means a better current transit. The material can exist out of INOX or copper (Cu).
	Cross, vertical connection that connects the horizontal connectors		Breaking strength (pull weight) Indication of the breakpoint in Kilogram.

Resistance
The resistance is being measured in Ohm (R). The resistance slows the energy down. $R=U/I$. No resistance means short circuit, 1.000.000 Ω means a good insulation. An animal or a person has an average resistance of about 500 R. For this reason the power and the impulse energy with this resistance are the relevant values to compare electric fences. Also conductors like wire, tape and rope have a resistance. The resistance of the various conductors is different. Aluminum wire has a very low resistance and is therefore most suitable for very long fences.

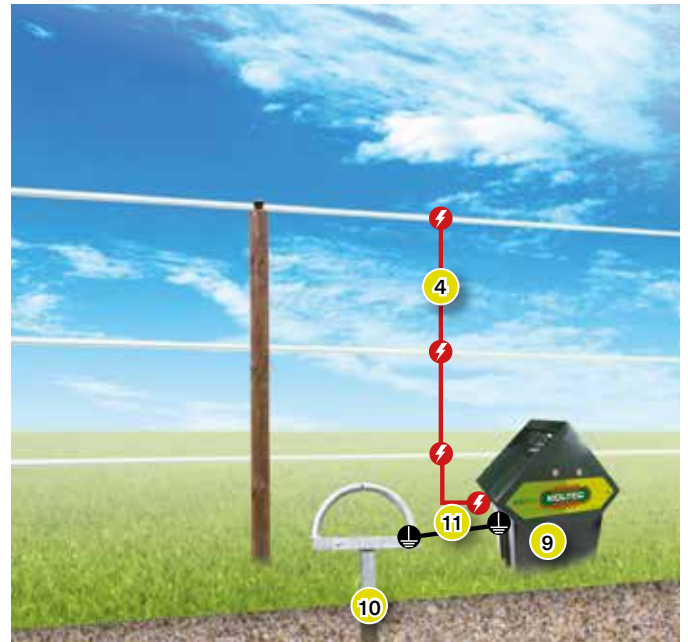
PE: Conductors constructed with Polyethylen wires have a long endurance.



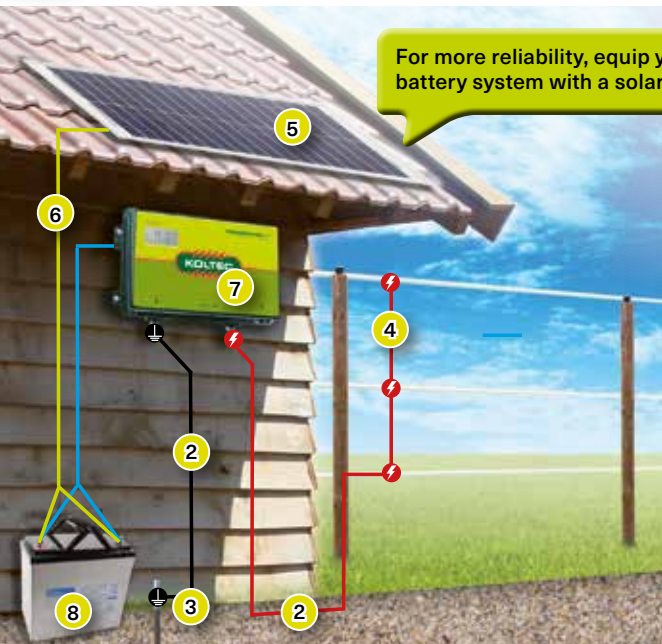
Mains energisers 230 VOLT



Battery energisers 9-12 VOLT



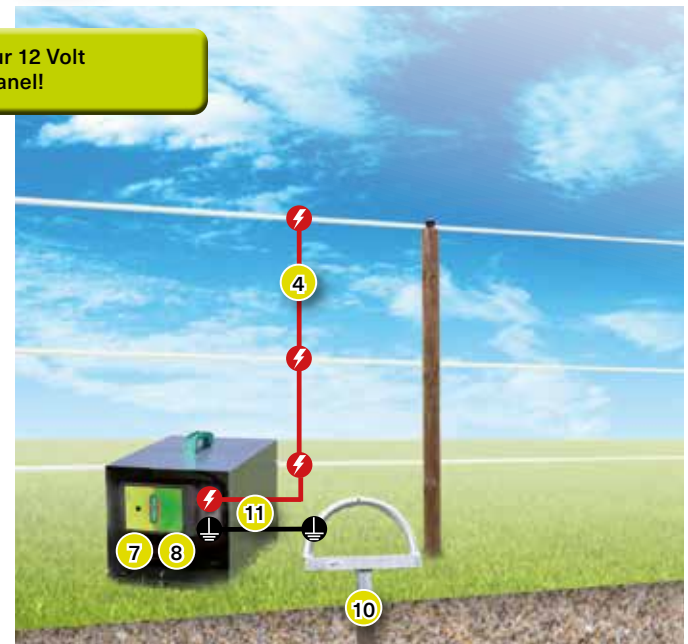
Battery ENERGISERS 12 VOLT



For more reliability, equip your 12 Volt battery system with a solar panel!



Battery ENERGISERS 12 VOLT



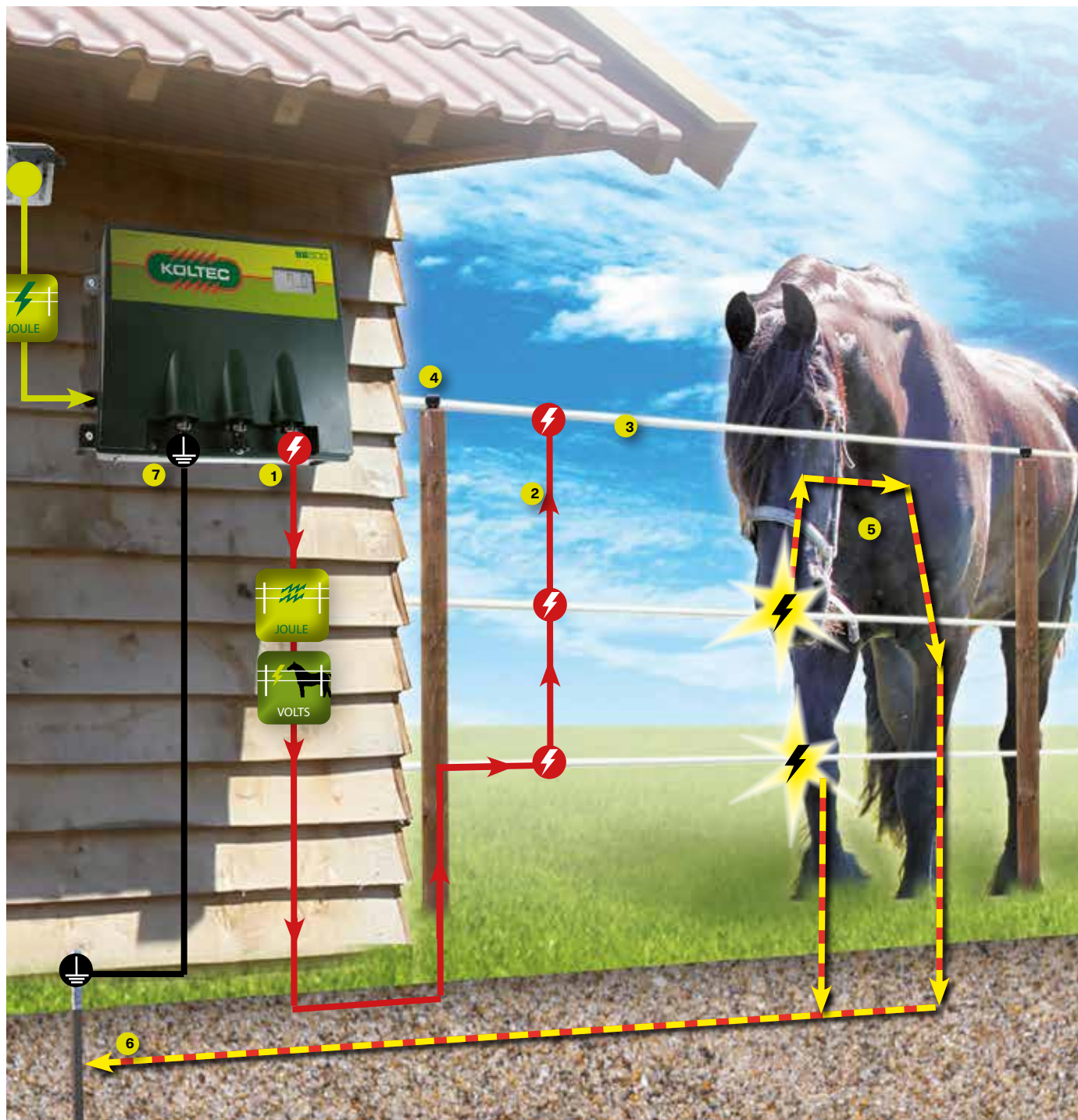
- 1. MAINS ENERGISER (See from page 18)
- 2. HIGHTENSION CABLE (See page 43)
- 3. EARTH STAKE (See page 47)
- 4. LINKING KIT (See page 72)
- 5. SOLAR PANEL (See page 34)
- 6. EXTENSION CABLE (See page 34)

- 7. WET CELL BATTERY ENERGISER (See page 26)
- 8. WET CELL BATTERY (See page 32)
- 9. BATTERY ENERGISER (See page 36)
- 10. MOBILE EARTH STAKE (See page 47)
- 11. CONNECTION KIT (See page 44)

Optional connection of lightning diverter and/or switch, see page 41.

KOLTEC TIP

If you have to connect your device to the grid by bridging a distance over 25 meter use the high voltage cable with 2.5 mm solid core.



An electric fence is simple, fast and cheap to build comparing to a mechanical fence. The electric pulse takes care that the animals stay away from the fence. Your fence hardly will be damaged and will last longer.

The shock from an electric fence system is achieved by making short-circuit.

This goes as follows:

- 1 The energiser gives current pulses.
- 2 These impulses are fed through a connection cable to the fence.
- 3 The fence consists of conducting materials, often steel, stainless steel or copper, sometimes incorporated in synthetic materials, like poly rope, poly tape and poly wire.
- 4 The insulators on the posts prevent the fence to connect with earth.
- 5 When an animal touches the fence, the current pulses go through the body to earth.
- 6 Through the ground (earth) the current pulses go to the earthpin(s).
- 7 The earthpin is connected with the earth output of the fencer, with which the circuit is closed.

For the connection of your energiser see page 10 & 42

For the importance of earthing see page 46



**SE340
MAINS ENERGISER**

The SE340 is provided with a display and alarm. With the display all the necessary information about the fence is directly visible. If there really is a problem and the tension drops below the 2.000 Volt, the alarm will go off. This is a sign to check the fence immediately

LOWERED IN PRICE + FREE BOUNDARY BLADE, worth € 29,95



**SE425
MAINS ENERGISER**

The SE425 is a strong device, without frills, comparable to the SE500. Because of the wide energy pulse the shock effect is very good. Extremely suitable for animals which are difficult to keep such as sheep and Shetland ponies in a large meadow. Ideal fencer for users wanting a strong, affordable device, but don't care about digital read out or alarm.

+ NOW WITH FREE DIGITAL VOLTMETER!



**HB15
BATTERY POWERED ENERGISER**

The HB15 is very suitable for mobile applications and short fences because of its compactness. Only small types of batteries will fit. By means of the battery-leads 152-80017 this fencer can also be connected with an external 12 Volt wet cell battery. It has a peak voltage of 9.200 Volt and stored energy of 0,20 Joule. The consumption is Approx. 20 mA.

+ NOW WITH FREE BATTERY 9 VOLT - 570 Wh, worth € 29,95



**EC20
BATTERY POWERED ENERGISER**

The EC20 is an all-round fencer deduced from the EC25. Suitable for all 9 Volt dry cell batteries. Also suitable for 12 Volt wet cell batteries. With a peak voltage of 9.900 Volt and stored energy of 0,30 Joule this is a powerful fencer. The consumption is 30 mA.



**EC25
BATTERY POWERED ENERGISER**

This range's top model is supplied with a day-night automatic. This saves much energy so that the battery lasts longer. It is suitable for all kinds of animals and types of fences. Suitable for all 9 Volt dry cell batteries. Also suitable for 12 Volt wet cell batteries and DC adapters with an output of 9-12 Volt. With a peak voltage of 9.900 Volt and stored energy of 0,35 Joule this is a very powerful fencer. Yet the consumption is not more than 35 mA.

BOUNDARY BLADE

pocket knife, fence tester and tool in one.

Check your fences safe, quick and easy with the Boundary Blade®. The bright LED-indicators are easy to see under the most difficult circumstances and designed to fit comfortably in your hand. A sharp and solid knife comes in handy everywhere. Just tighten a screw? With the Boundary Blade no problem.

Boundary Blade® is an indispensable tool for in your pocket, trusted by farmers all over the world. "Walk into the field with confidence"

1



**boundary
blade®**



IDEAL POCKET KNIFE

With the practical pocket knife with both a smooth and partly serrated surface. Ideal for various situations where a blade is used.



FENCE TESTER

Always on hand to test the actual voltage on the electric fence. A five-stage indication by means of 5 bright indicator LEDs.



WRENCH

Inside the high-quality blade there is a handy recess for different bolt sizes up to M6

Photo	Art. nr.	Description	PU	€ price/PU
1	162-85487	Pocket knife - tester Boundary Blade	1	

PU=Packing Unit Price incl. VAT

2024

Too little or no voltage on the fence.

Check the voltage on the fence with a fence tester or high voltage meter (D).

X < 2.500 V

✓ > 4.000 V

Switch the device off

Disconnect the fence from the device.
Do keep the earth stake connected.

Switch the device on again.

Measure the voltage at the earthing with fence tester or high-voltage meter. (A).

X < 7000 V

✓ > 7.000 V

Is the power supply OK?

Offer device for service:

- at a Koltec re-seller
- at Koltec direct

Switch the device off again.
Reconnect the fence to the device.

Disconnect the connection cable from the device to the fence, at the fence.

Switch the device on again.

Measure the voltage at the end of the connecting cable (B)

X < 7000 V

✓ > 7.000 V

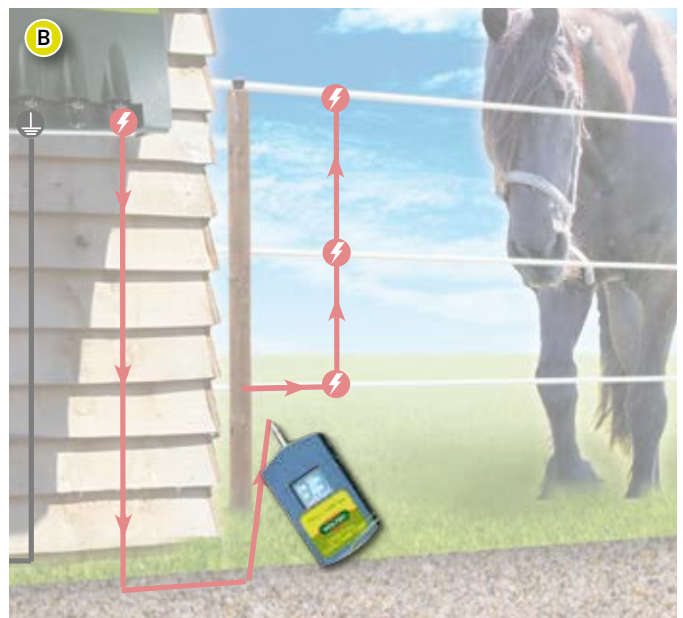
Connection in order.

Connection cable is faulty.

Repair / replace with by high voltage cable

See page 43

To connection



Switch the device off.
Reconnect the fence to the device.

Switch the device on again.

Check the voltage on the fence with a fence tester or high voltage meter (D).

✓ > 4.000 V Fence functions well	✗ < 2.500 V
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Check the earthing

Measure the voltage at the earthing with fence tester or high-voltage meter. (C)

✓ 0 - 300 V Earthing is good	✗ >300 V
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Optimise grounding:
Insert 1 or 2 additional earth pins.
Re-measure the voltage at earth

✓ 0 - 300 V Earthing is good	✗ >300 V
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Check points fencing:

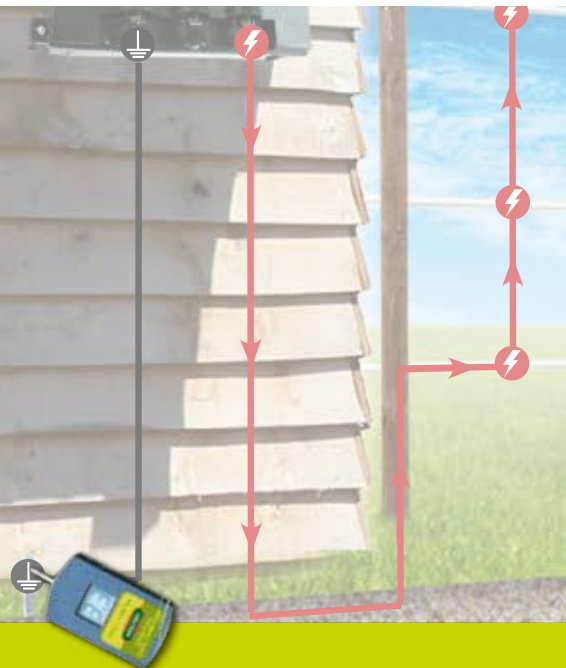
- Remove growth of grass, weeds and/or bushes.
- Check for broken conductors in wire, tape or cord.
- Poor quality/age of the thread, tape or cord.
- Repair knots and bad connections at gates and repaired parts.
- Check for defective insulators.
- Check and/or install vertical connections between the wire, tape or cord every 200 mtr.

This run should be repeated until the fence is good.

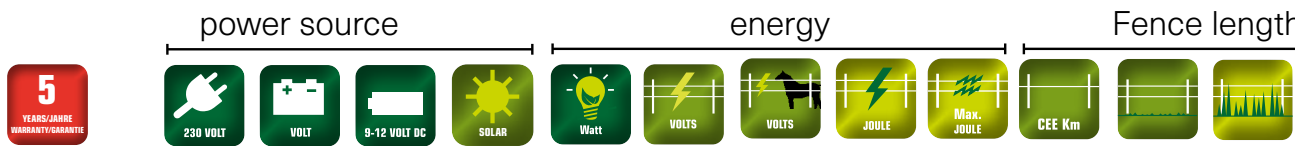
After recovery, check voltage on fence again. (D)

✓ > 4.000 V Fence functions well	✗ < 2.500 V
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Once the earthing has been checked, the fence should be checked again.(D).



DEVICE SPECIFICATIONS



	Mains power Volt	Battery Voltage	Dry battery Voltage	Solar pnael	Energy consumption mA / W	Peak power	Power @ 500 Ohm	Stored energy	Impuls energy	CEE length	Fence length, clean	Fence length with growth
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Mains energizers



SE500	230				11	10.000	4.600	10	6,2	300	25	8
SE440	230				10	9.000	4.000	6	4,4	200	20	5
SE340	230				6	9.000	3.500	5	3,4	150	15	4
SE425	230				10	9.200	4.000	10	5,4	300	25	7
CSIKOS DIGITAL	230				6	8.800	4.100	6	3,0	150	15	3,0
CSIKOS XP	230				3	8.800	4.100	5	2,5	150	12	2,5
CSIKOS	230				1	6.000	2.750	2,8	2,0	100	3	1,0
ES10	230				1,3	11.200	4.200	1,3	1,0	50	2	0,8
ES-5	230				0,5	10.900	3.500	0,7	0,5	27	1	0,4
MINIGARD XXP	230				6	7.500	4.500	6	3			
MINIGARD XP	230				2	5.700	2.900	2	1			
MINIGARD HOBBY	230				0,3	7.000	1.000	0,2	0,15			
HORSETRAINER	230				1,9	8.000	0.3-4.0	1,5	0,02-1,0			

12 Volt powered energizers



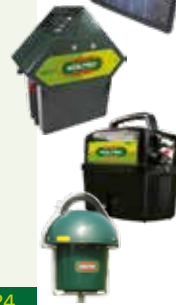
POWERGARD XP	230	12		20 W	140-190	8.800	5.800	4,85	3,1	120	20	5,0
POWERGARD	230	12		10 W	70-120	8.500	3.200	2,0	1,5	85	5	1,5
PG200	230	12		20 W	180	10.000	5.600	2,75	2,0	55	6	2
PG100	230	12		10 W	120	9.400	5.000	1,50	1,0	45	3	0,8
PG50	230	12		10 W	50	8.500	2.800	0,75	0,5	30	1	0,4
COW TRAINER		12/24				8.600	300	0,04	0,02			

Solar energizers



HS75 (5+10Watt)		12/24		10 W	40	8.200	2.500	0,75	0,15-0,5	25	1,2	0,6
MS50		12		10 W	50	11.000	3.600	0,65	0,50	18,0	1,6	0,8
MS25		12		5 W	40	9.000	3.100	0,33	0,25	8,5	0,8	0,4
MS15		12		2,5 W	30	7.500	2.500	0,18	0,15	3,7	0,4	0,2

Dry battery (9&12 V) powered energizers



EC25	Opt.		9 - 12		35	9.900	2.500	0,35	0,30	18	0,8	0,2
EC20			9 - 12		30	9.900	2.300	0,30	0,25	13	0,6	0,2
HB15			9 - 12		20	9.200	2.000	0,20	0,15	8	0,4	-
EB15	Opt.		9 - 12		20	9.200	2.000	0,20	0,15	8	0,4	-
HB10			9 - 12		15	8.700	1.700	0,15	0,10	6	0,3	-
ST					10	7.000	500	0,15	0,10	5	0,3	-

additional functions

including



Ha (acres * 2.5)	Digital display	Alarm	Third terminal, half power	Lightning protector	Growth booster	Growth indicator	Battery saver	Battery check / indicator	Charge indicator	Day / night automatic	High / low switch	Om / off switch	Connection kit	Warning sign
40	•	•	•	•										•
25	•	•	•	•										•
18	•	•	•	•										•
32			•	•										•
17	•													•
12														•
8														•
4														•
2														•
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6				•	•	•	•	•	•			•	•	•
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1								•				•	•	•
3										•		•	•	•
2											•	•	•	•
1											•	•	•	•
1											•	•	•	•
0,5											•	•	•	•
0,5												•	•	•

SE SERIES

The SE-series consists of devices for professional fences on mains power. These fencers are very effective because of the wide pulse. By this the given energy is very well transmitted. This quality makes the series extremely suitable for difficult circumstances.

The SE-series is provided with an extra terminal for connecting a small paddock or second wire on half power for optimal functioning with dry or frozen soils. The devices are economical in use and have a solid, splash proof housing.



- + Digital notifications of the tension on your fence
- + Alarm when the power drops below 2.000 Volt
- + Wide pulse width, for an optimal shock effect
- + Destroys weeds/growths
- + 3 terminal for connecting small paddocks or to optimize the fence under dry and frozen circumstances.

1



1. SE500

The SE500 is provided with a display and alarm. With the display all the necessary information about the fence is directly visible. If there really is a problem and the tension drops below the 2.000 Volt, the alarm will go off. This is a sign to check the fence immediately

2



2. SE440

The SE440 is provided with a display and alarm. With the display all the necessary information about the fence is directly visible. If there really is a problem and the tension drops below the 2.000 Volt, the alarm will go off. This is a sign to check the fence immediately

3



3. SE340.

The SE340 is provided with a display and alarm. With the display all the necessary information about the fence is directly visible. If there really is a problem and the tension drops below the 2.000 Volt, the alarm will go off. This is a sign to check the fence immediately

LOWERED IN PRICE + FREE BOUNDARY BLADE, worth € 29,95

4



4. SE425

The SE425 is a strong device, without frills, comparable to the SE500. Because of the wide energy pulse the shock effect is very good. Extremely suitable for animals which are difficult to keep such as sheep and Shetland ponies in a large meadow. Ideal fencer for users wanting a strong, affordable device, but don't care about digital read out or alarm.

+ WITH FREE DIGITAL VOLTMETER! worth € 49,95

Maximum fence length in Km See pag. 8 & 9



	230	11	10.000	4.600	10	6,2	300	25	8	40
SE500	230	10	9.000	4.000	6	4,4	200	20	5	25
SE340	230	6	9.000	3.500	5	3,4	150	15	4	18
SE425	230	10	9.200	4.000	10	5,4	300	25	7	32

Photo	Art. nr.	Description	PU	€ price/PU
1	161-83040	Energiser KOLTEC SE500 mains	1	
2	161-83030	Energiser KOLTEC SE440 mains	1	
3	161-83020	Energiser KOLTEC SE340 mains, incl. Boudary Blade	1	
4	161-82651	Energiser KOLTEC SE425 mains incl. digital voltmeter	1	

PU=Packing Unit Price incl. VAT

CSIKOS SERIES

KOLTEC has developed mains operating fences, specially for horses which meet the needs for animal friendliness and safety.

Horses are sensitive animals, which are being kept behind clearly visible conductors such as tape and rope. Horses can detect quickly if the conductor is under tension or not. Therefore you need a reliable KOLTEC fencer, to keep your animals at all times in their paddocks.

4

Digital Display

What is the function of it?

- It gives you information about your fence situation in a split second.
- Displays the real tension on your fence.



1. CSIKOS DIGITAL

A powerful fencer with a peak voltage of 8.800 Volt and a stored energy of 6 Joules. Is suitable for all kinds of animals and has a digital display to monitor proper operation of the fencer.



2. CSIKOS XP

Csikos XP, the horse keeper pre-eminently. It is suitable for long fencing. With a stored energy of 5 Joule and a peak voltage of 8.800 Volt strong and sufficiently energetic to keep difficult fences under tension.



3. CSIKOS

Mains operating fencer especially developed for small to medium-sized horse meadows or paddocks. The fencer supplies, with a stored energy of 2,8 Joule, a peak voltage of 6.000 Volt.



4. ES10

Mains operating fencer especially developed for paddocks. The fencer supplies, with a stored energy of 1,3 Joule, a peak voltage of 11.200 Volt.



5. ES-5

Mains operating fencer, the step-inn model of the range. The fencer supplies, with a stored energy of 0,7 Joule, a peak voltage of 10.900 Volt.

Maximum fence length in Km
See pag. 8 & 9



	230	Watt	VOLTS	VOLTS	JOULE	Max. JOULE	CEE Km	Km	Km	Ha
CSIKOS DIGITAL	230	6	8.800	4.100	6	3,0	150	15	3,0	17
CSIKOS XP	230	3	8.800	4.100	5	2,5	150	12	2,5	12
CSIKOS	230	1	6.000	2.750	2,8	2,0	100	3	1,0	8
ES10	230	1,3	11.200	4.200	1,3	1,0	50	2	0,8	4
ES-5	230	0,5	10.900	3.500	0,7	0,5	27	1	0,4	2

Photo	Art. nr.	Description	PU	€ price/PU
1	161-82200	Energiser KOLTEC Csikos Digital mains	1	
2	161-82296	Energiser KOLTEC Csikos XP mains	1	
3	161-82310	Energiser KOLTEC Csikos mains	1	
4	161-82140	Energiser KOLTEC ES10 1,0J mains	1	
5	161-82105	Energiser KOLTEC ES-5 mains	1	

PU=Packing Unit Price incl. VAT

HORSE TRAINER



HORSE TRAINER

This device is specially developed for horse exercisers. The tension and with that the energy, can be adjusted continuously. The device is adjustable to the sensitivity of the horses. The tension is adjustable from 300 Volt up to 8,000 Volt.

The impulse energy from 0.02 up to 1.0 Joule (at 500 Ohm). The digital display is showing the adjusted tension.

"To optimize the functioning of an exerciser, it is recommended to use an electric fence."



HB15 & ES10

EXERCISER

For the proper function of a treadmill the availability of an energiser is recommended. If the tension does not need to be adapted to the different animals then the **ES10** (3) mains power device is a widely used device. Some mills have a construction which does not allow the mounting of an energiser on the outside in a permanent exhibition. In that situation a battery device like the **HB15** (2) can solve this. It works with the mill and provides the round-up fences with tension.



Many modern livestock farms have in their stable round-up gates and selection boxes. To work efficiently, the cows sometimes need to be stimulated to keep the tempo and go in the right direction. The COW TRAINER of KOLTEC assists in this. The device is powered with a 12 or 24-Volt DC power supply system.

Through years of experience the energy delivery and voltage are adjusted so that the cows have no "trauma" experience.



HORSE TRAINER	230			1,9 W	8.000	0,3-4,0 kV	1,5	0,02-1,0
ES10	230			0,6 W	8.300	3.000	1,0	0,6
HB15			9-12	20 mA	9.200	2.000	0,20	0,15
COW TRAINER		12-24		10 mA	8.600	300	0,04	0,02

Photo	Art. nr.	Description	PU	€ price/PU
1	161-82150	Energiser KOLTEC Horse Trainer mains	1	
2	160-81010	Energiser KOLTEC HB15 0,15 J 9 / 12 Volt battery device	1	
3	161-82140	Energiser KOLTEC ES10 1,0J mains	1	
4	161-82891	Energiser KOLTEC Cow Trainer on 24 Volt with 5 mtr lead	1	
	161-82892	Energiser KOLTEC Cow Trainer on 12 Volt with 5 mtr lead	1	

PU=Packing Unit Price incl. VAT

MINIGARD SERIES



1

1. MINIGARD XXP

The MiniGard XXP is a very powerful energiser that tolerates some growth of weeds and/or grass, without a drastic decrease of the tension on the fence. This energiser is highly recommendable around ponds with lots of plants on the banks or gardens with lots of plants on the fence.

Where plants touch the wire, they will die. Because of the high power the energiser is extremely suitable for scaring away herons. These birds, that often fish the ponds empty, have insulated feathers, where the pulse of a less powerful energiser can't get through.



2

2. MINIGARD XP

The MiniGard XP is 5x more powerful than the MiniGard II. It tolerates a little growth of weeds and/or grass. The energiser will hold the tension at light growth on a proper level. Where plants touches the wire, they will be scorched.



3

3. MINIGARD II HOBBY

A small energiser, very suitable for short distance fences. Does not tolerate growth of weeds and/or grass. The MiniGard can be installed in combination with various accessories to make a fence to size.



Photo	Art. nr.	Description	PU	€ price/PU
1	161-82529	Energiser KOLTEC MiniGard XXP mains	1	
2	161-82524	Energiser KOLTEC MiniGard XP mains, ideal for large gardens	1	
3	161-82520	Energiser KOLTEC MiniGard II Hobby mains, for wooden fences and aviaries	1	

1. MINIGARD XXP POND KIT

This kit is designed especially to fence ponds. The MiniGard XXP is an energiser that tolerates some growth of pond plants, without losing the tension on the fence. This kit contains a MiniGard XXP, a connection cable set, 100 meter special turbo wire and two plastic wire strainers.

Apart from this kit you need garden posts, with, depending on which kind of post, matching insulators. When the MiniGard XXP is installed at a longer distance from the pond, we recommend the use of high voltage cable for the connection. With a digital display which gives you information about the fence.

Because of the high power the energiser is extremely suitable for scaring away herons. These birds, that often fish the ponds empty, have insulated feathers, where the pulse of a less powerful fencer can't get through.

2. MINIGARD II AVIARY KIT

In this kit we added to the MiniGard II 25 little ring insulators, a plastic wire strainer, 100 meter wire and a connecting cable kit.

This set is available for wood or metal constructions.



3 MINIGARD XP GARDEN KIT

In this kit there is a more powerful version of the energiser. This fence energiser is suitable for longer fences and is less sensitive for eventual light growth of weeds or plants. Besides the fencer we will deliver a basic kit with which a fence can be build. All you need to buy further are garden posts or insulator supports for the fence and an earthpin. The kit contains a MiniGard XP, 2 wire strainers, connecting cable set and 250 meter wire.

4. MINIGARD GARDEN FENCE KIT

This set is mainly intended for keeping cats out of your garden. But vice versa, it also keeps your own cat in the garden.

This complete kit for fences consists of the MiniGard II Hobby mains unit supplemented with 16 insulator supports with 2 insulators each, 4 small ring insulators, 4 plastic wire tensioners, 100 metres of fence wire, 5 metres of high-tension cable, earth stake and a tester.

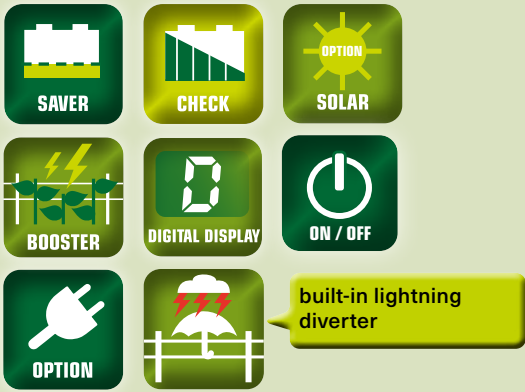
Depending on the length of the fence, you can buy additional individual components such as supports, ring insulators or wire separately.



Photo	Art. nr.	Description	PU	€ price/PU
1	161-82528	Energiser KOLTEC MiniGard XXP mains, pond kit	1	
2	161-82526	Energiser KOLTEC MiniGard II aviary kit mains, for wooden cages	1	
	161-82523	Energiser KOLTEC MiniGard II aviary kit mains, for metal cages	1	
3	161-82527	Energiser KOLTEC MiniGard XP mains, garden kit	1	
4	161-82550	Minigard garden fence kit for 26 - 32 m fence	1	

PU=Packing Unit Price incl. VAT

POWERGARD SERIES



1. POWERGARD XP

A powerful and intelligent fence energiser. It increases fully automatic the voltage when the tension on the wire lowers below 4.000 Volt by touching or growth of plants. It switches back to its normal economical operation, as soon as the load is normal. Growth of grass or weeds will be scorched, while the energy consumption stays low. With the **built-in battery protector** your expensive battery is well protected.

With a tension of 5.800 Volt and 3,1 Joule at 500 Ohm a very powerful energiser. The display shows you alternating the tension on your application and the battery tension.



2. POWERGARD

A handy and powerful fence energiser for smaller area's, with more difficult animals to keep like sheep and shetland pony's. It increases fully automatic the voltage when the tension on the wire lowers below 3.000 Volt by touching or growth of plants. It switches back to its normal economical operation, as soon as the load is normal.

Growth of grass or weeds will be scorched, while the energy consumption stays low. The **built-in battery protector** protects your expensive battery against discharge below the critical level.



External supply:

- **12 Volt battery**

Optional:

- **mains operating**
- **solar panel**

- + **Battery protector**
- + **Energy saver**
- + **Charge indicator external power sources**
- + **Load indication for short cuts / growth**
- + **Power booster**



POWERGARD XP	12	140-190	8.800	5.800	4,85	3,1	20 W	120	20	5,0	14
POWERGARD	12	70-120	8.500	3.200	2,0	1,5	10 W	85	5	1,5	6

Photo	Art. nr.	Description	PU	€ price/PU
1	160-81087	Energiser KOLTEC Powergard XP 3,2 J 12 Volt battery device, incl. mains adapter	1	
2	160-81037	Energiser KOLTEC Powergard 2,0 Joule, incl. mains adapter	1	
3	162-60015	Box to carry a wet cell battery and/or Powergard or PG energiser	1	
4	135-39993	Adapter DC 12 Volt with con. PG series	1	
5	162-60004	Bracket for mounting Powergard XP	1	
6	152-80003	Connection cable for wet cell batteries, replacement for Powergard, PG-serie and solar panels	1	
7	162-85508	Extension cable for solar panels, 5 m incl. connectors	1	
	162-85509	Extension cable for solar panels, 10 m incl. connectors	1	

PU=Packing Unit Price incl. VAT

PG SERIES

The PG wet cell battery powered devices are combi-fencers that function on 12 Volt wet cell batteries as well as mainstream. Small, handy devices that can be adjusted to a wall or post in a simple way.

The control light informs you about the condition of the battery. When it flashes green everything is all right, when it flashes red the battery needs to be recharged.

The PG series is also equipped with a battery protector, which prevents the battery to become discharged below the critical level of 10,5 Volt.

This prevents damage and prolongs the life of the battery. To keep the battery charged without looking after it you can add a solar panel.

Included is now a 12 Volt DC adapter to make the PG devices function on mainstream also. This adapter can be easily switched with the battery cable.

-  OPTION
-  SAVER
-  CHECK
-  OPTION



PG200



PG100










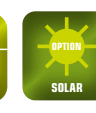

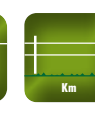
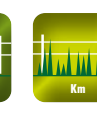
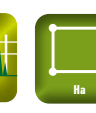
PG50



4



5

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PG200	12	180	10.000	5.600	2,75	2,0	20 W	55	6	2,0	8
PG100	12	120	9.400	5.000	1,50	1,0	10 W	45	3	0,8	4
PG50	12	50	8.500	2.800	0,75	0,5	10 W	30	1	0,4	2

Photo	Art. nr.	Description	PU	€ price/PU
1	160-81067	Energiser KOLTEC PG200 12 Volt battery device	1	
2	160-81065	Energiser KOLTEC PG100 12 Volt battery device	1	
3	160-81081	Energiser KOLTEC PG50 12 Volt battery device	1	
4	135-39993	Adapter DC 12 Volt with con. PG series	1	
5	162-85508	Extension cable for solar panels, 5 m incl. connectors	1	
	162-85509	Extension cable for solar panels, 10 m incl. connectors	1	
6	152-80003	Battery connection lead, exchange for battery devices & SP	1	

PU=Packing Unit Price incl. VAT



CARRY CASE

A sturdy case to mount a Powergard XP, Powergard or PG fencer in combination with a wet cell battery. Easy to carry due to 2 carry handles. The case is made of sendzimir plate material, which has a very good resistance against corrosion.

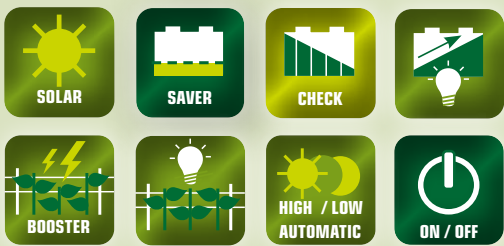
With the extra available accessory it is very easy to mount a 10 or 20 Watt solar panel on top of the case. With this you create a complete and handy solar unit which is very easy to transport.



Photo	Art. nr.	Description	PU	€ price/PU
1	162-60015	Box to carry a wet cell battery and/or Powergard or PG energiser	1	
2	162-60019	Solar bracket for carry case	1	

PU=Packing Unit Price incl. VAT

HS 75 HYBRID SOLAR



The HS75 is a multi-functional wet cell battery fencer. Because of the solar panel you do not need to look after the fencer. The also supplied 12 V- 12 AH battery provides the energy supply during the night and dark days.

Ideal for temporarily, mobile utilization where a fairly powerful device is wanted. With the built-in charge regulator and battery protector the battery is protected against overloading and discharging. With a peak voltage of 8.200 Volt and a stored energy of 0,75 Joule and 2.500 Volt with max 0,5 Joule at 500 Ohm a powerful fencer for medium-sized meadows. Delivered with 12 Volt battery, 5 or 10 Watt solar panel, 24 Volt DC adapter, a high quality connection set, warn sign and mounting base.



HS75 10 WATT SOLARSET

If the HS75 with solar panel is used the whole year around, it is to be recommended to use a larger solar panel. In the winter months it is so dark that a 5 Watt solar panel does not have enough capacity to keep the battery charged. If interim recharging with the adapter is not wanted, than the HS75 with a 10 Watt solar panel is highly recommended.



HS75	12 - 24	40	8.200	2.500	0,75	0,15-0,5	25	1,2	0,6	3
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Photo	Art. nr.	Description	PU	€ price/PU
1	160-81310	Solar kit KOLTEC HS75 with 10 Watt solar panel	1	
2	160-81305	Solar kit KOLTEC HS75 with 5 Watt solar panel	1	
3	162-85508	Extension cable for solar panels, 5 m incl. connectors	1	
	162-85509	Extension cable for solar panels, 10 m incl. connectors	1	
4	162-80197	Earth stake, 75 cm, for mobile devices	1	
5	163-45530	Exchange AGM battery 12 Volt 12 Ah, for HS75 & MS-serie	1	

PU=Packing Unit Price incl. VAT

MS SERIE

Three compact solar fences, very usable for mobile applications. With an integrated solar panel that keeps the wet-cell battery charged during the meadow season.

A solid housing that can be placed on the ground, but has also possibilities to hang it on a post or wall. With 0,18, 0,33 and 0,65 Joule loading energy and a relatively high tension, suitable for short and middle long fences.

For the winter months a charger is supplied also to charge the wet-cell battery extra in this period.



Delivery incl.

- Wet-cell battery 12 volt 7 Ah or 12 Ah
- Wet-cell battery charger
- Connection set
- Warning sign



MS50	12	50	11.000	3.600	0,65	0,50	18,0	1,6	0,8	4
MS25	12	40	9.000	3.100	0,33	0,25	8,5	0,8	0,4	2
MS15	12	30	7.500	2.500	0,18	0,15	3,7	0,4	0,2	1

Photo	Art. nr.	Description	PU	€ price/PU
1	160-81450	MS50 mobile solar fencer	1	
2	160-81425	MS25 mobile solar fencer	1	
3	160-81415	MS15 mobile solar fencer	1	
4	162-60020	Support bracket MS-Serie	1	

PU=Packing Unit Price incl. VAT

BATTERIES

1 - 3 TRACTION-BATTERY

The traction battery is also called deep-cycle battery or light battery. The battery is made to deliver long-term power.

A traction battery can be discharged up to 80% without damage. How many times a battery can be charged and discharged is called the "cyclic power" of a battery. This is with a traction battery approx. 4 times higher than with a start battery.

A battery is empty when operating (in charge) it cannot deliver more than 80% (9.6 volts) of the specified voltage (12 Volt).

Temperature

The capacity of a wet cell battery decreases under influence of temperature. By -10 C this is 25% lower and there is also needed a higher charge tension to get the wet cell battery optimal loaded.

4 - 5 CAR-BATTERY

A start-battery is meant to start a car or tractor. The battery is made to deliver shortly a high Amperage (current). This type of accumulators is less suitable for a prolonged constant current supply, the battery will be discharged too far.

By strong discharge the capacity strongly goes backwards due to sulfation. Once this happens the battery is very quickly ruined! For that reason **KOLTEC** has equipped all wet cell battery powered energisers with a protection against discharging below the critical level. It is recommended that a start battery does not go beyond 20% discharge.

6. SONEIL BATTERY CHARGER

7. CTEK BATTERY CHARGER

The CTEK wet-cell battery charger is small, but extremely efficient. The charger will load up to 5,0 Ampère per hour. Adjustable for small lead-gel wet-cell batteries as for the heavy start wet-cell batteries. Re-conditioning is an option for having to deeply discharged wet-cell batteries somewhat function again.

8. BATTERY PINCE, PLASTIC

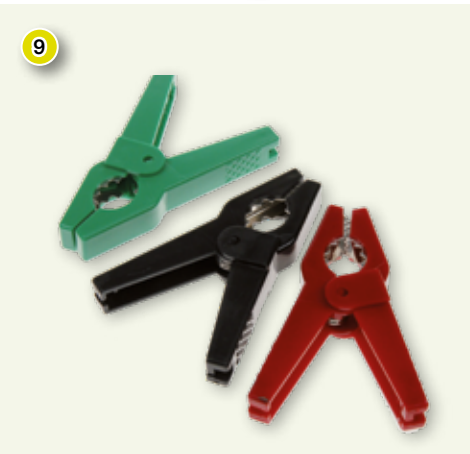
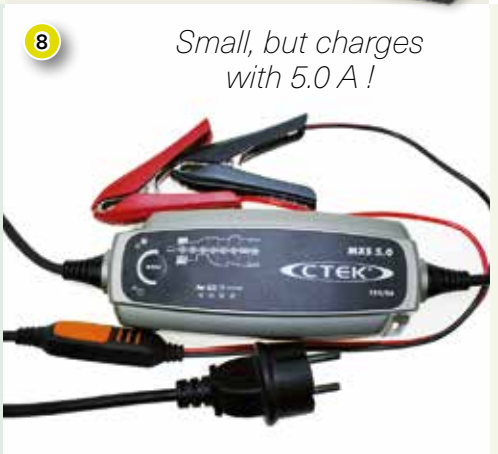


Photo	Art. nr.	Description	PU	€ price/PU
1	163-45530	Exchange AGM battery 12 Volt 12 Ah, for HS75 & MS-serie, 3,8 Kg	1	
2	163-45531	Cycle battery 12 Volt - 55 Ah, 197*165*170 mm / 14,2 kg	1	
3	163-45547	Traction battery, double pool, 12Volt-110 Ah, 330*172*238 mm / 25,4 Kg	1	
4	163-45548	AGM battery, 12 Volt - 110 Ah, 329*172*215 mm / 27 Kg	1	
5	163-45539	Battery, maintenance free, 12 Volt - 44 Ah, 210*175*190 mm/11,9 kg	1	
6	163-45540	Battery, maintenance free 12 Volt - 74 Ah, 278*175*190 mm/16,9 kg	1	
7	162-85530	Wet cell battery charger, 4,0 Amp.	1	
8	162-85520	Cetec MXS 5.0 battery charger, max. 5.0 A charge current	1	
9	135-45051	Battery pince, plastic, red	1	
	135-45052	Battery pince, plastic, black	1	
	135-45053	Battery pince, plastic, green	1	

12 Volt battery energiser
(See also Page 26-28)

Create reliability with a solar panel
(See also Page 34)

Advised battery
(See also Page 32)

Working period (Indication)
Winter time +/- 25%



	+ 20 watt	+ 	=		
	+ 20 watt	+ 	+ 	12V - 110 Ah	Unlimited Unlimited
	+ 20 watt		+ 	12V - 110 Ah	Unlimited Unlimited
			+ 	12V - 74 Ah 12V - 110 Ah	21 days 16 days 32 days 24 days
Powergard XP					

	+ 10 watt	+ 	=		
	+ 10 watt	+ 	+ 	12V - 50 Ah Traction battery	Unlimited Unlimited
	+ 10 watt		+ 	12V - 50 Ah Traction battery	Unlimited Unlimited
			+ 	12V - 110 Ah 12V - 74 Ah	65 days 38 days 42 days 25 days
Powergard					

	+ 10 watt	+ 	=		
	+ 10 watt	+ 	+ 	12V - 50 Ah Traction battery	Unlimited Unlimited
	+ 10 watt		+ 	12V - 50 Ah Traction battery	Unlimited Unlimited
			+ 	12V - 74 Ah 12V - 110 Ah	25 days 25 days 38 days 38 days
PG 100					

	+ 10 watt	+ 	=		
	+ 10 watt	+ 	+ 	12V - 50 Ah Traction battery	Unlimited Unlimited
	+ 10 watt		+ 	12V - 50 Ah Traction battery	Unlimited Unlimited
			+ 	12V - 74 Ah 12V - 44 Ah	60 days 60 days 36 days 36 days
PG 50					

SOLAR PANELS

Solar energy as power source for your fence.

There are various reasons for combining a battery operating fencer with a solar panel:

- The section is far from home
- There is no electric power in the area
- You are not able to check the fence on a regular basis
- It is not possible for you to regularly change the battery for reloading this at home

A battery operating electric fencer combined with a solar panel can function during the whole season maintenance free, without looking after it. Also in Northern-Europe the sun supplies enough energy/light in order to charge up the battery sufficiently during daylight. Therefore the battery continuously supplies enough electric current in order to keep your fence under power day and night.

All KOLTEC car battery powered fencers can be connected to a KOLTEC solar panel.

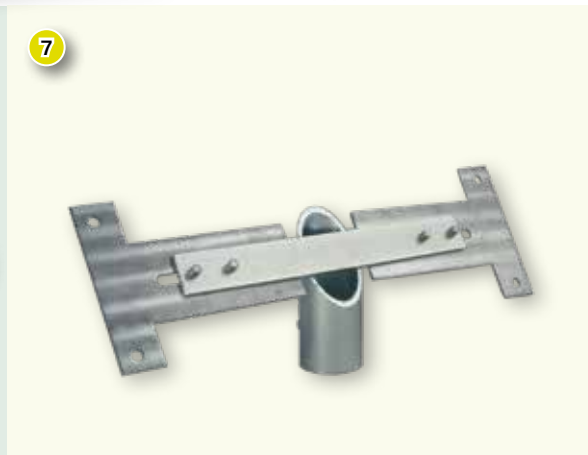


Photo	Art. nr.	Description	PU	€ price/PU
1	162-85513	Solar panel 45 Watt incl. charge regulator, various applications, 69*55 cm 4.6 kg	1	
2	162-85514	Solar panel 30 Watt incl. charge regulator, various applications, 56 * 52,5 cm 3.7 kg	1	
3	162-85515	Solar panel 20 Watt incl. charge regulator for Powergard XP, 48 * 37 cm 2.6 kg	1	
4	162-85516	Solar panel 10 Watt incl. charge regulator for Powergard, 35 * 24 cm 1.9 kg	1	
	162-85518	Solar panel 10 Watt without regulator, specially for HS75, 35 * 24 cm 1.9 kg	1	
5	162-85517	Solar panel 5 Watt without regulator, for battery devices and HS75, 32 * 20,5 cm 1.0 kg	1	
6	162-85508	Extension cable for solar panels, 5 m incl. connectors	1	
	162-85509	Extension cable for solar panels, 10 m incl. connectors	1	
7	162-60005	Frame for mounting 5, 10 & 20 Watt solar panels	1	
8	152-80003	Battery connection lead, exchange for battery devices & SP	1	

PU=Packing Unit Price incl. VAT

MOUNTING MATERIAL

1. MOUNTING KIT

This kit with two brackets is suitable for larger solar panels. Ideal to mount the 30 & 45 Watt panels to a wall or roof.

2. MOUNTING FRAME

Separate frame on which the 5, 10 and 20 Watt offered solar panels can be mounted. This frame fits on the mounting post and mounting bracket.

3. MOUNTING POST

Special post for a stable line up of a battery fencer in combination with a battery and/or solar panel.

4. ALUMINIUM POLE

Solar panels sometimes have far better use when they are placed a little higher.

This is also a limited form of theft prevention. The base pole is 2 meters high and equipped with clamps to mount on a wall or solid pole. The installation frame by KOLTEC fits on this pole. The extension set consists of 1 meter with connection pieces. The maximum total height that is recommended is 3 meters

5. MOUNTING BRACKET

Special bracket for mounting solar panels on a post or wall.

7. PLACING SET

A very handy portable metal box to carry a wet cell battery with or without a Powergard energiser. Can be mounted to the mounting post.

8. THEFT PREVENTION CASE

The theft prevention case is build in a way that it can be electrified by the fencer. The case is mounted on top of a heavy duty earth rod of 120 cm. It is locked tot his post from the inside with a heavy M10 bolt. The locking can be done with a padlock (Not supplied) In the bottem a hole is made to lead a high tension cable to the outside for connecting the fence. Dimensions of the case are W50*L50*H30 cm.

Inside the case there is space for a 12 Volt battery with the maximum dimensions of max. W25*H28*L48 cm.



Photo	Art. nr.	Description	PU	€ price/PU
1	162-85511	Mounting kit for 30 & 45 Watt panels	1	
2	162-60005	Frame for mounting 5, 10 & 20 Watt solar panels	1	
3	162-60003	Post for mounting Powergard and Powergard XP	1	
4	162-60017	Post for solar panels, 2 m, with mounting parts	1	
	162-60018	Extension kit 1 m for post solar panel	1	
5	162-60006	Bracket for mounting 5, 10 & 20 Watt solar panels on a wall	1	
6	162-60019	Solar bracket for carry case	1	
7	162-60015	Box to carry a wet cell battery and/or Powergard or PG energiser	1	
8	162-60016	Box for theft prevention, electrifiable case	1	

PU=Packing Unit Price incl. VAT

EC & HB SERIES

The EC25, EC20, EB15 and HB15 battery powered energisers are technically very solidly built, stripped of all its frills, and very popular. The recognizable housing, in becoming a stylish camouflage is hardly noticed in the field. Almost every available power source can be connected to these apparatus.

- Energy consumption is very low
- Reliable electronic
- Solid housing

These KOLTEC dry cell Battery energisers are delivered inclusive a high quality connection set, warn sign and mounting base.



1. EC25

This range's top model is supplied with a day-night automatic. This saves much energy so that the battery lasts longer. It is suitable for all kinds of animals and types of fences. Suitable for all 9 Volt dry cell batteries. Also suitable for 12 Volt wet cell batteries and DC adapters with an output of 9-12 Volt. With a peak voltage of 9.900 Volt and stored energy of 0,35 Joule this is a very powerful fencer. Yet the consumption is not more than 35 mA.

*WITH FREE FENCE TESTER, worth € 19,95



2. EC20

The EC20 is an all-round fencer deduced from the EC25. Suitable for all 9 Volt dry cell batteries. Also suitable for 12 Volt wet cell batteries. With a peak voltage of 9.900 Volt and stored energy of 0,30 Joule this is a powerful fencer. The consumption is 30 mA.

* WITH FREE FENCE TESTER, worth € 19,95



1. HB15

The HB15 is very suitable for mobile applications and short fences because of its compactness. Only small types of batteries will fit. By means of the battery-leads 152-80017 this fencer can also be connected with an external 12 Volt wet cell battery. It has a peak voltage of 9.200 Volt and stored energy of 0,20 Joule. The consumption is Approx. 20 mA

* NOW WITH FREE BATTERY 9 V - 570 Wh / 75 Ah, worth € 29,95



Photo	Art. nr.	Description	PU	€ price/PU
1	160-81025	Energiser KOLTEC EC25 0,25 J 9 / 12 Volt battery device	1	
2	160-81023	Energiser KOLTEC EC20 0,2 J 9 / 12 Volt battery device	1	
3	160-81010	Energiser KOLTEC HB15 0,15 J 9 / 12 Volt battery device	1	

PU=Packing Unit Price incl. VAT

1. HB10

The HB10 is the step-in dry battery fencer. It is very suitable for mobile applications and short fences because of its compactness. Only small types of batteries will fit. By means of the battery-leads 152-80017 this fencer can also be connected with an external 12 Volt wet cell battery. It has a peak voltage of 8.700 Volt and stored energy of 0,15 Joule. The consumption is Approx. 15 mA



1



2. EB15

The EB15 is a small all-round fencer, very suitable for mobile use because of its compactness. Only small types of batteries will fit. Also suitable for 12 Volt wet cell batteries. To supply it via mains use a DC adapter with an output of 9 – 12 Volt. With a peak voltage of 9.200 Volt and stored energy of 0,20 Joule this is a fine fencer. The consumption is 20mA.



2



3. ST

One of the worlds most sold battery fence controller is still in production. Extremely solid mechanical working device. It will last a long time proving itself to be the most reliable fencer on the market. Only suitable for short fences (2,5 acre / 1 Ha) without growth of weeds or grass. Powered by round battery which lasts one full grazing season.

*Battery recommendation: 6 Volt – 510 Wh (100 Ah) alkaline.

Not adapted for 7,5 Volt round alkaline batteries!!



Usage periode max. 236 days with advised battery*



3

4

*All usage periods in combination with different types of batteries see page 38



EC25	9 - 12	35	9.900	2.500	0,35	0,30	18	0,8	0,2	3
EC20	9 - 12	30	9.900	2.300	0,30	0,25	13	0,6	0,2	2
HB15	9 - 12	20	9.200	2.000	0,20	0,15	8	0,4	-	1
EB15	9 - 12	20	9.200	2.000	0,20	0,15	8	0,4	-	1
HB10	9 - 12	15	8.700	1.700	0,15	0,10	6	0,3	-	0,5

Photo	Art. nr.	Description	PU	€ price/PU
1	160-81006	Energiser KOLTEC HB10 9 / 12 Volt battery device	1	
2	160-81020	Energiser KOLTEC EB15 0,15 J 9 / 12 Volt battery device	1	
3	160-81000	Energiser KOLTEC ST (Mushroom type) 6 Volt battery device	1	
4	153-60502	Battery container ST	1	

PU=Packing Unit Price incl. VAT

ADVICE TABLE



Art.Nr	Type	Price	Tension	Energy	Capacity	Weigth	Shape	Consumption in mA		
								EC1000	EC2100	HB15/EB15
		Incl. VAT	Volt	Wh	Ah			15	18	20
163-45505	Alkaline		9,0	380	55	1,35	Small	117	97	87
163-45522	Alkaline		9,0	570	75	1,82	Small	176	147	132
163-45515	Alkaline		9,0	540	65	1,75	Small	166	138	125
163-45524	Alkaline		9,0	900	120	2,27	Small	278	231	208
163-45527	Alkaline		9,0	1400	175	3,20	Large	432	x	x
163-45534	Alkaline		9,0	1250	160	2,67	Small	385	321	289
163-45532	Alkaline		9,0	1500	200	4,26	Large	463	386	x
163-45525	Alkaline		12,0	690	60	2,32	Small	x	133	119
163-45533	Alkaline		12,0	1380	120	4,45	Large	x	266	x
163-45501	Alkaline		6,0	510	100	1,70	Round	x	x	x
Suitable for 12 Volt car battery								No	Yes	Yes

In case of using a car battery, the following accessories are available:

152-80017 Simple battery connection kit	x	Yes	Yes
162-60000 Battery connection kit with charge indication	x	Yes	Yes

For the energy supply of fences we use mains, car batteries, solar units or dry cell batteries. If there is no mains available, energy supply by a dry cell battery is common use. Low cost and easy to transport. There are two types of dry cell batteries, saline and alkaline batteries. Both are air-oxygen batteries, they need oxygen out of the air to maintain a chemical reaction to produce the energy.

DIFFERENCES BETWEEN ALKALINE AND SALINE

Both types are free of mercury and cadmium and therefore environmental friendly, if it is disposed after usage at an official disposal point. It is not allowed to dispose the batteries with consumer- or company garbage.

ADVANTAGE OF ALKALINE BATTERIES

- The most important advantage is the output tension. Alkaline batteries give a stable tension during the usage period. The tension of saline batteries drops from 8,4 Volt to 5,5 Volt (picture below). With a decreasing battery tension –which is the case for all saline batteries–, the fence will take up more electrical current to maintain the declared output energy and this will result in accelerated battery discharge.
- The cathode and anode in an alkaline battery are much more efficient. This results in less material for the same capacity compared to saline batteries. Alkaline batteries weight therefore ca half less than saline

batteries and are smaller. Due to this, less garbage is produced, also the transport costs are lower and the future disposal costs will be lower.

- The electrolyte of alkaline batteries contains less water than saline batteries, due to that alkaline batteries function better at lower temperatures.
- With a decreasing battery tension a fence will use more energy to maintain the energy output. At a lower battery tension the internal resistance increases, due to that the energy uptake will increase accordingly. Alkaline batteries have due to an equal tension a lower energy use against saline batteries.

Advantages of alkaline against saline:

1. Voltage stays the same
2. Less raw material, less weight
3. Performs better at lower temperatures
4. Consumption is lower



EC20	EC25	ST	Other brands	
30	35	15	40	50
PERSISTENCE IN DAYS				
58	50	x	32	26
88	75	x	66	53
83	71	x	54	43
139	119	x	104	83
216	185	x	162	129
192	165	x	145	116
231	198	x	174	139
80	68	x	60	48
160	137	x	120	96
x	x	236	x	x
Yes	Yes	No	?	?

Yes	Yes	No	Yes	Yes
Yes	Yes	No	Yes	Yes

BATTERY LIFE TIME

To give a better indication how long a battery works, Koltec changes the capacity indication from Ah into Wh. This stands for Watt hour. This is the energy of the battery, the higher the Wh, the higher the energy content, the longer a fencer works on this battery.

EXAMPLE CALCULATION:

Consumption of the fencer: 30 mA.

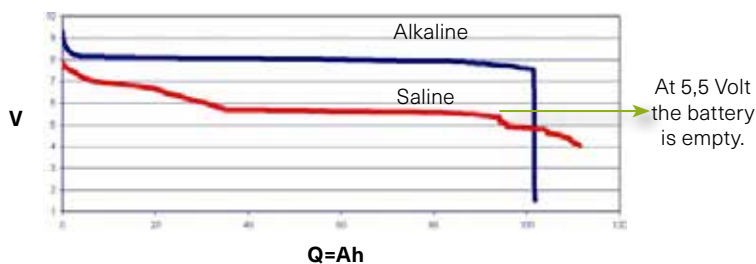
Average battery tension (alkaline): 8,5 Volt.

Energy consumption of the device: $30/1000 * 8,5 = 0,255$ Wh

75 Ah Alkaline battery contains 570 Wh.

Usage time of the device with this battery: $570 / 0,255 = 2235$ hour = 93 days.

TENSION CURVE OF ALKALINE AGAINST SALINE:



Batteries with the same capacity (100 Ah):

Battery	Weight	Energy (Wh)	Energy eff. Wh/Kg
Alkaline	2,3 kg	800	347
Saline	4,4 kg	600	136

DIMENSIONS

Shape	Heigh in mm	Width in mm	Length in mm
Round	180	Ø 180	na
Small	102	102	165
Large	158	127	189

KOLTEC TIP

Choose a battery which fits to the desired life time. The higher the energy content / capacity, the lower the daily usage costs.

CAUTION!! :

Weeds / grass growth against the fence and conductors on the ground have a negative influence on the life time of the battery!





1-2. MOUNTING FRAME EC20/EC25 OR ST

Handy frame in which the fencer is enclosed. The frame also functions as an earthpin. Placing the fencer from one section to another is made very easy by this frame. On higher, dryer sections it is recommended to use also a separate earthpin to optimal functioning of the used fencers.

3. MOUNTING BASE/ FOOT

Handy mounting base or foot for a Koltec battery device. Solid base with which you can move the fencers from one section to another. The base functions also as earthpin. On higher and dry sections we recommend the use of an extra earthpin.



4. CONNECTION CABLE FOR BATTERIES

Special cable set for the connection of your battery powered fencer with a car/tractor battery. This set protects your fencer against connection failures. The set has also a built-in battery protector against discharge of the battery below the critical level. A dual-led gives the indication that power is supplied and when the tension of the battery becomes critical.



5. BATTERY-LEADS

Handy, but basic connection cable between 12 Volt car/tractor battery and 9-12 Volt energiser.



6. CONNECTION SET

Handy set for the connection between fence energiser, fence and earthpin. Length 150 cm.



7. ADAPTER

DC adapter of 9 Volt to connect the EC25 or EB15 to mains.



8. ELECTRIC FENCE WARNING SIGN

Obligatory with an electric fence at a public road. The sign has to be placed every 50 m.

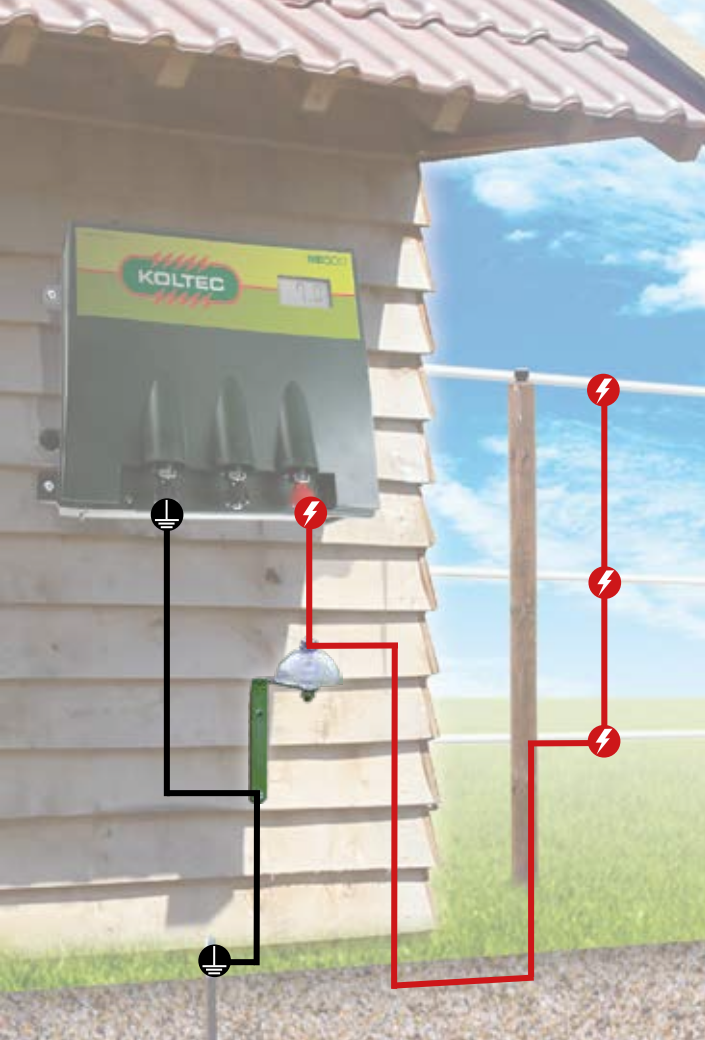


9. SOLAR KIT, 5 Watt

Handy kit to turn around your 12 Volt dry battery device into a solar unit. The kit contains a 5 Watt panel, 12 Volt – 12 Ah gel-battery and a connection kit.

Photo	Art. nr.	Description	PU	€ price/PU
1	162-85466	Frame for EC-models, with integrated earthing connection	1	
2	162-85465	Frame for ST, with integrated earthing connection	1	
3	152-70301	Mounting base for the EC25, EC20 and HS75	1	
	152-70302	Mounting base for the HB15 and EB15	1	
4	162-60000	Connection kit for wet cell 12 Volt battery, LED indication for charging + battery saver	1	
5	152-80017	Connection kit for 12 Volt batteries	1	
6	162-85608	All-round connection kit, INOX, with crocodile clip, red and black, length 150 cm	1	
7	135-39995	Adapter DC 9 Volt	1	
8	162-39501-4	Signs "Warning electric fence", obligatory along public roads (4)	4	
9	162-85507	Solar kit 5 Watt for (12 Volt) dry battery powered devices	1	

PU=Packing Unit Price incl. VAT



1. LIGHTNING DIVERTER

Fence energisers are sensitive for lightning. With the proper prevention measures, the chance of possible damage to the energisers can be reduced.

The KOLTEC lightning diverter offers the necessary protection by diverting the over tension in the air to the ground. With this the chance on a lightning stroke and therefore damage on your energiser will be reduced.

2. SECTION SWITCH

The switch has 4 positions you can choice between.

- 0 = The tension is not transmitted
- 1 = Section 1 under tension
- 2 = Section 2 under tension
- 1+2 = Section 1 & 2 under tension



+ = Incl. / Inkl.

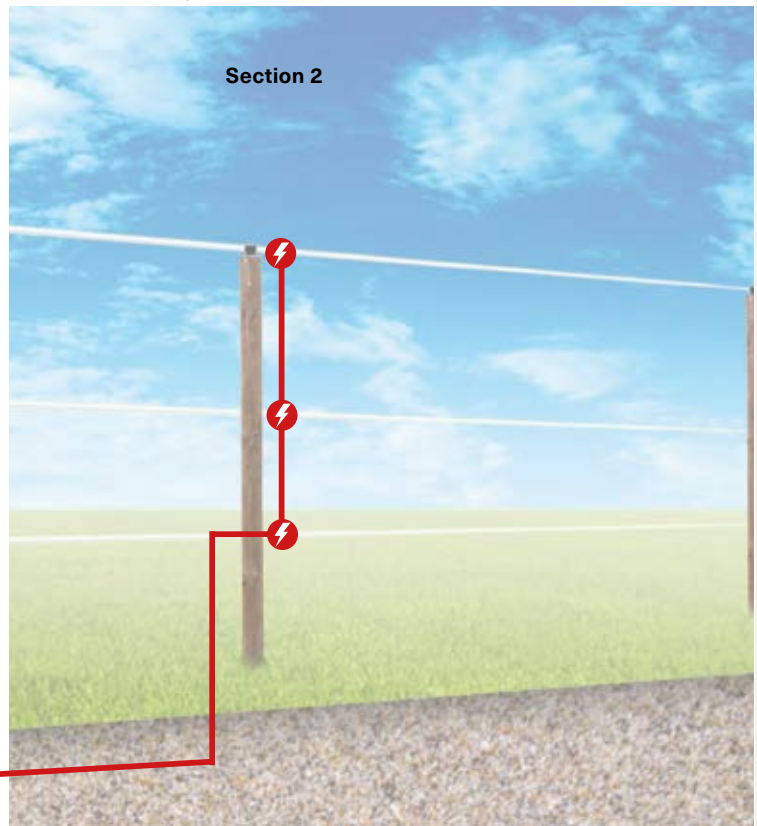
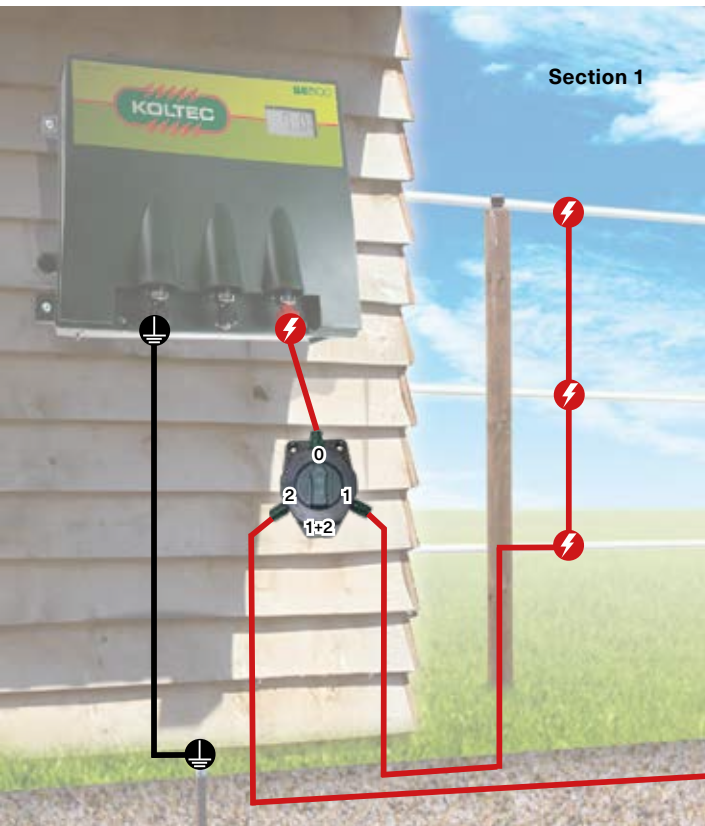
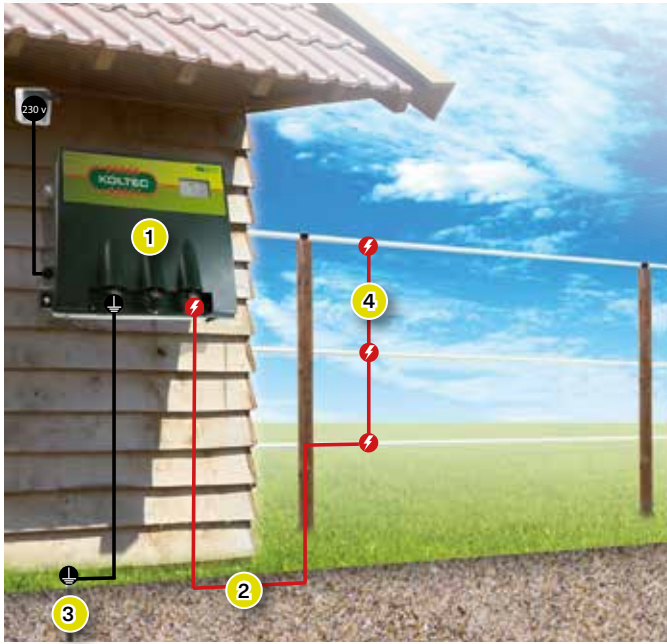


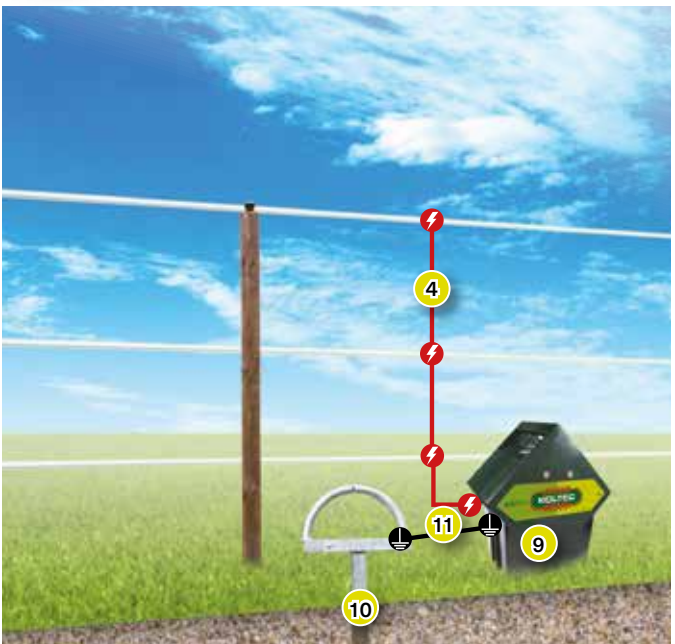
Photo	Art. nr.	Description	PU	€ price/PU
1	162-80175-1	Lightning diverter	1	
2	162-85470	Switch, high voltage, for connecting sections, two exit terminals	1	

PU=Packing Unit Price incl. VAT

230 VOLT Mains energisers 230 VOLT

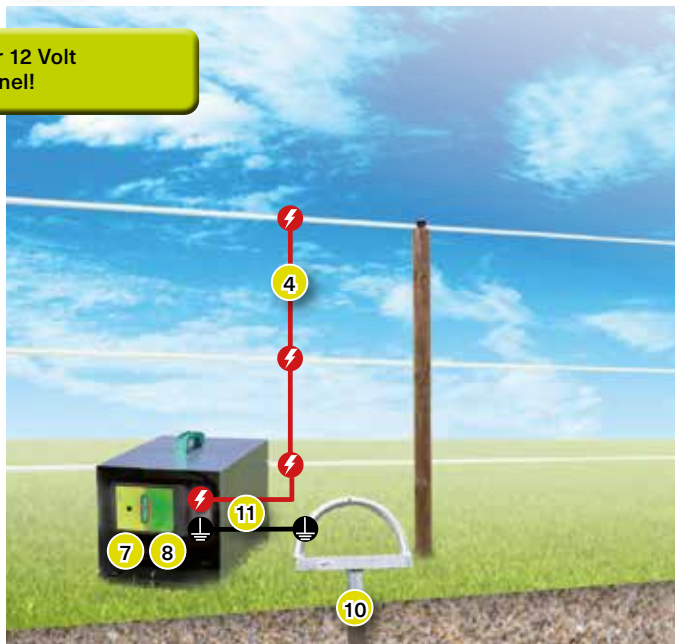
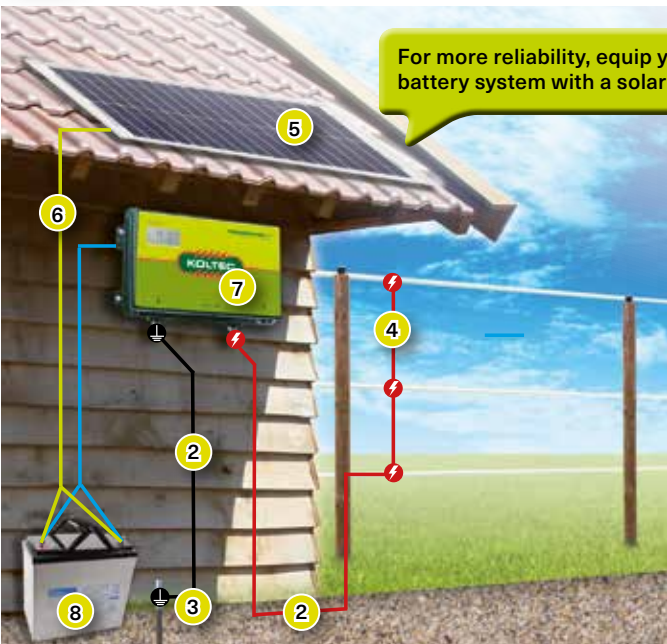


9-12 VOLT DC Battery energisers 9-12 VOLT



12 VOLT DC Battery ENERGISERS 12 VOLT

12 VOLT DC Battery ENERGISERS 12 VOLT



- 1. MAINS ENERGISER (See from page 18)
- 2. HIGHTENSION CABLE (See page 43)
- 3. EARTH STAKE (See page 47)
- 4. LINKING KIT (See page 72)
- 5. SOLAR PANEL (See page 34)
- 6. EXTENSION CABLE (See page 34)

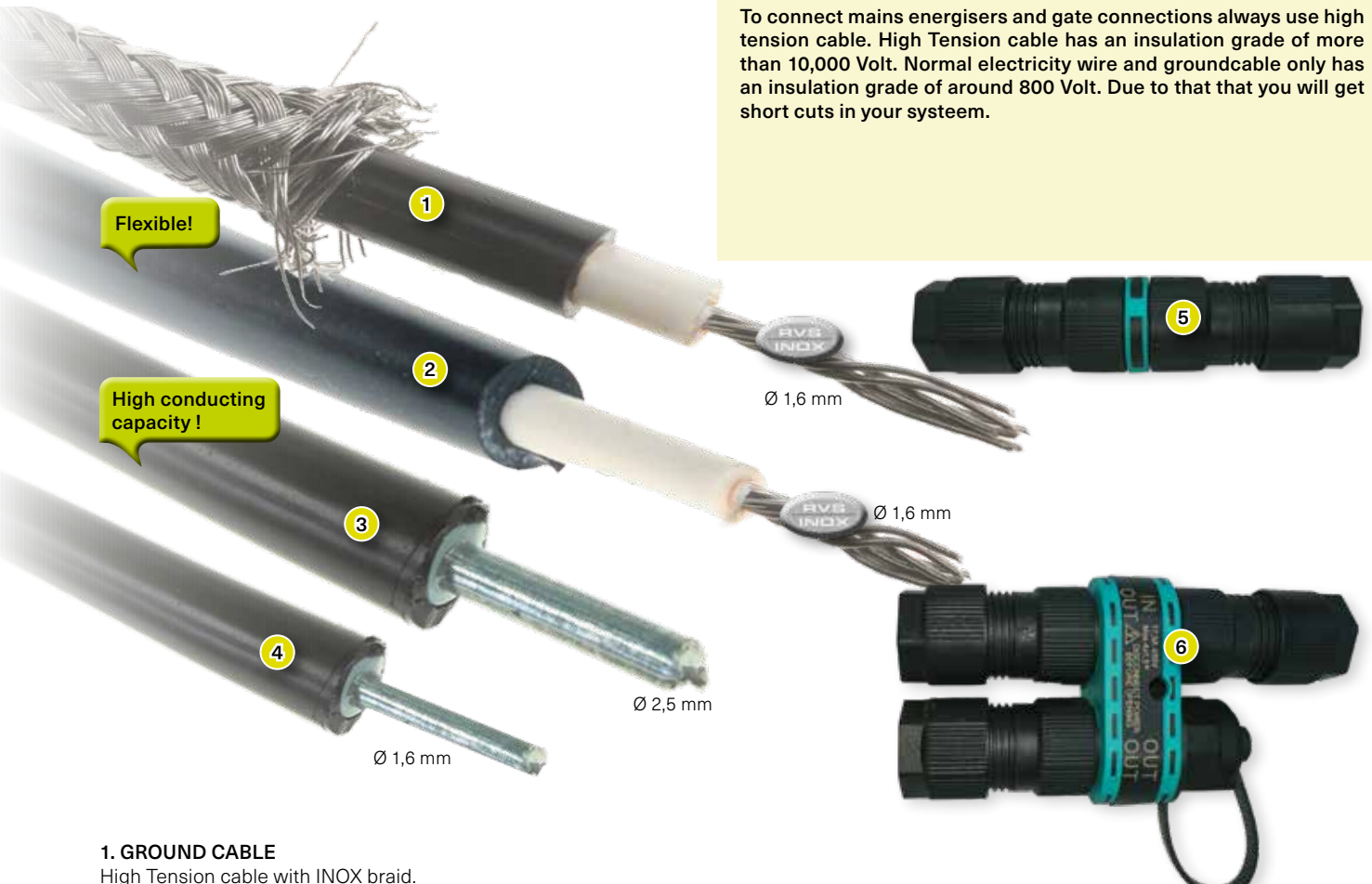
- 7. WET CELL BATTERY ENERGISER (See page 26)
- 8. WET CELL BATTERY (See page 32)
- 9. BATTERY ENERGISER (See page 36)
- 10. MOBILE EARTH STAKE (See page 47)
- 11. CONNECTION KIT (See page 44)

Optional connection of lightning diverter and/or switch, see page 41.

KOLTEC TIP

If you have to connect your device to the grid by bridging a distance over 25 meter use the high voltage cable with 2.5 mm solid core.

To connect mains energisers and gate connections always use high tension cable. High Tension cable has an insulation grade of more than 10,000 Volt. Normal electricity wire and groundcable only has an insulation grade of around 800 Volt. Due to that that you will get short cuts in your system.



1. GROUND CABLE

High Tension cable with INOX braid.

Connection cable which can be placed underground and is protected against mechanical influences by its INOX braid. The braid can also be used as an earth lead/rod.

2. HIGH TENSION CABLE

Cable to connect the fence energiser to fences over longer distances. Also extremely suitable to connect earthpins to the fence energiser. Suitable for underground connections, however the cable must be led through a PVC-tube. Double insulated, with 7 strand INOX core of 2 mm². Insulation value is 12,000 Volt.

3. STIRDY HIGH TENSION CABLE

HT-cable with a zinc plated, solid core of 2.5 mm. Double insulated with an insulation value of 12,000 Volt.

4. STIRDY HIGH TENSION CABLE

HT-cable with a zinc plated, solid core of 1.6 mm. Double insulated with an insulation value of 12,000 Volt.

Photo	Art. nr.	Description	PU	€ price/PU
1	162-36124-10	Ground cable, HT-cable with INOX braid, 10 m	10	
2	133-36122-05	High tension cable, coil with 5 m, flexible 7 strand inox core	5	
	133-36122-10	High tension cable, coil with 10 m, flexible 7 strand inox core	10	
	133-36122-50	High tension cable, coil with 50 m, flexible 7 strand inox core	50	
	133-36122-500	High tension cable, plastic reel with 500 m, flexible 7 strand inox core	500	
3	162-36125-20	High-voltage cable with solid zinc plated 2,5 mm core, 20 m	20	
	162-36125-50	High-voltage cable with solid zinc plated 2,5 mm core, 50 m	50	
	162-36125-100	High-voltage cable with solid zinc plated 2,5 mm core, 100 m	100	
4	162-36126-20	High-voltage cable with solid zinc plated 1,6 mm core, 20 m	20	
	162-36126-50	High-voltage cable with solid zinc plated 1,6 mm core, 50 m	50	
	162-36126-100	High-voltage cable with solid zinc plated 1,6 mm core, 100 m	100	
	162-36126-500	High-voltage cable with solid zinc plated 1,6 mm core, 500 m	500	
5	162-26130	HT-cable connector. For the connection of 2 HT-cables.	1	
6	162-26132	HT-cable splitter and connector. For the connection of 3 HT-cables	1	

PU=Packing Unit Price incl. VAT

CONNECTION MATERIAL

For the connection of your battery or wet cell battery device you can use for an optimal tension transit one of the underneath connection kits.

1. CONNECTION SET

Set with simple, heart shape connector

2-4. CONNECTION SETS

Handy sets for the connection between fence energiser, fence and earth-pin. Length 150 cm.

5. SEPARATE CROCODILE CLIPS

Two red and two black.

For the connection of your mains or wet cell battery energizer with the fence by means of a high-tension cable, you can use underneath connectors.

6. TAPE CONNECTION KIT

Separate INOX tape connector plates with connection eye for flexible HT-cable. Cables with a solid core can be connected by twisting an eye and with the ring connecting below the butterfly nut. Per 2 pcs.

7. ROPE CONNECTORS

Handy, good conducting INOX rope connector with butterfly-nuts for easy mounting without wrenches.

Per 4 pcs.

8 - 11. WIRE CLAMP

Ideal connector for connecting high voltage cable to high tensile wire and making connections between high tensile wires.

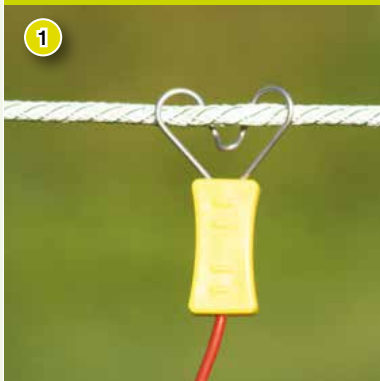


Photo	Art. nr.	Description	PU	€ price/PU
1	162-85600	Connection kit with heart shape connector	1	
2	162-85608	All-round connection kit, INOX, with crocodile clip, red and black, length 150 cm	1	
3	162-85607	Connection kit, INOX, for rope, length 150 cm	1	
	162-85609	Connection kit for wire, INOX, length 150 cm	1	
4	162-85606	Connection kit, INOX, for tape, length 150 cm	1	
5	162-85610-4	Clips, crocodile, 2 red + 2 black, synthetic with INOX teeth and spring	4	
6	162-85612-2	Connection kit for tape/HT-cable, with ring and connection eye	2	
7	162-39098-4	Connectors for rope up to 8 mm, INOX, with wing nuts	4	
8	162-39089-4	Clamps for connecting iron-aluminium- and steel wire	4	
9	162-85483-4	L-Wire clamp, per 4 pieces	4	
10	162-85484-4	O-Wire clamp, per 4 pieces	4	
11	162-85485-4	W-wire clamp, per 4 pieces	4	

PU=Packing Unit Price incl. VAT



The Gripple product assortment tensioners is innovatively designed and highly technically processed with a view to simplicity.

By the delivery of a significant easier system against the traditional methods, and eliminating the need for manual connecting and knotting of the wire, the work and installation time has been significantly shortened.

Gripple systems are carefully developed, which ensures that we can offer complete solutions for a wide range of applications. One of the many strengths of the patented push-fit technology is the versatility; this makes it possible to transform all kinds of fencing-, supporting-, trellis- and anchoring applications into easy labour-saving tasks.

- Connects and tensions in one movement.
- Saves the twisting and knotting of metal wire, which reduces the installation time drastically.
- Ideal for use as well on sturdy steel wire with a high breaking strength as soft steel wire.
- Designed for a high carrying capacity and excellent rust resistance.
- Easy to tension again, year after year



Photo	Art. nr.	Description	PU	€ price/PU
1	162-39419-4	Unlocking key for Gripple joiners	4	
	162-39419-25	Installers Torq Tensioning Tool, metal	25	
2	162-39421-4	Twister, wire end clamp 100 pcs	4	
	162-39421-25	Twister, wire end clamp 25 pcs	25	
3	162-39423-4	T-Clip 2 3,25 mm - 4,2 mm, 4 pcs	4	
	162-39423-25	T-Clip 1 1,8 mm - 3,25 mm, 4 pcs	25	
4	162-39415-6	Gripple Barbed wire joiner, 6 pcs	6	
	162-39415-15	Gripple Plus Large 3,25 mm - 4,2 mm 25 pcs	15	
5	162-39412	Gripple Plus Medium 2,0 mm - 3,25 mm 4 pcs	1	
6	162-39413-25	Gripple Plus Large 3,25 mm - 4,2 mm 4 pcs	25	
	162-39413-100	Gripple Plus Medium 2,0 mm - 3,25 mm 25 pcs	100	
7	162-39417-4	Gripple Barbed wire joiner, 15 pcs	4	
	162-39418-4	Torq Tensioning Tool, synthetic	4	
8	162-39424-2	GP-fix 2 st voor 1.8 - 3.2 mm repair kit	2	
9	162-39410	Gripple Plus Small 1,4 mm - 2,2 mm 4 pcs	1	
10	162-39411	Gripple Plus Small 1,4 mm - 2,2 mm 25 pcs	1	

PU=Packing Unit Price incl. VAT

2024

The importance of earthing

The earthing takes care of the fact that, when an animal touches the fence, the circuit is being closed and the current is flowing through the animal. This causes an electrical shock to deter the animal.

For an optimal working of the electric fence good earthing is essential. The earthing has to be as such that a very low resistance is present (not higher than 100 Ohm). Optimal is a copper or copper coated earth pin with a diameter of about 20 mm,

which is connected to the groundwater level. This however cannot always be realised. In order to get good earthing, we recommend the connection of at least 2 earth pins with a length of 1 meter (code 162-80199, on page 43) parallel and/or in series with each other, with an interval of 3 meters.

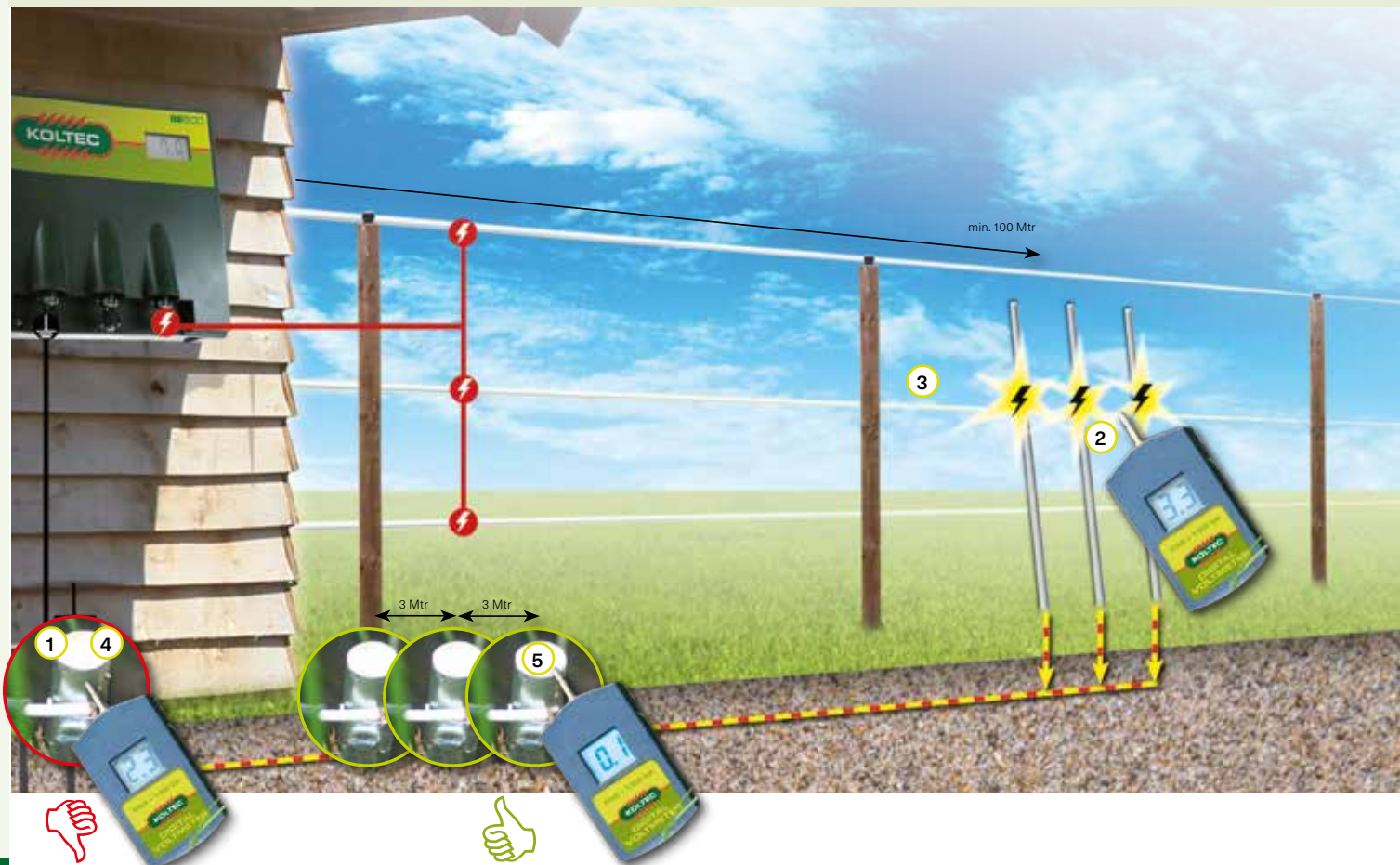
When you want to have the maximum use of your electric fencer, then earthing is of crucial importance. Without sufficient earthing the system can never work properly.

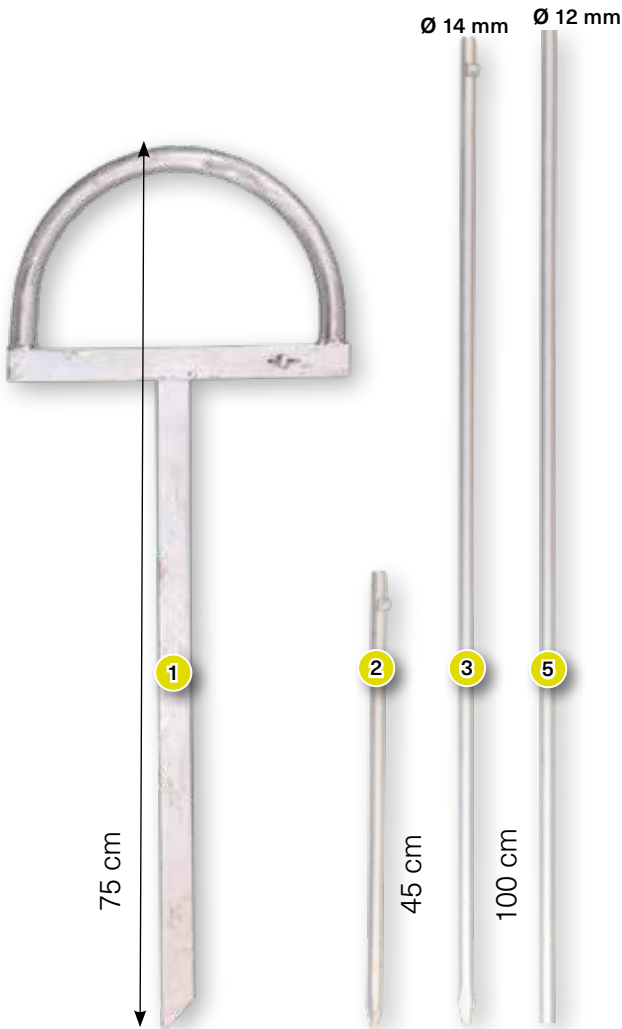
“The maximum use of your energiser is only established with sufficient earthing.”

TESTING

- 1 Measure the tension on the earth pin with a voltmeter*. This measured tension must not be higher than 300 Volt. The reference for your voltmeter is the earth.
- 2 Measure with a voltmeter* if, at least 100 meters from the earthing, if there is more than 3.000 Volt on your fence. The reference for your voltmeter* is the earth.
- 3 Ensure that on this measure point a short circuit is being made by connecting the conductor with the earth, for instance by placing a conducting pole (iron/aluminium) against the wire.
- 4 Measure the voltage on the earthing in this condition. Is the voltage more than 300 Volt, then the earthing is insufficient and you have to install more earth pins in order to create an optimal electric fence.
- 5 After having installed more poles do the above test again. To make sure the goals above are achieved.

* = High tension voltmeter, see page 116





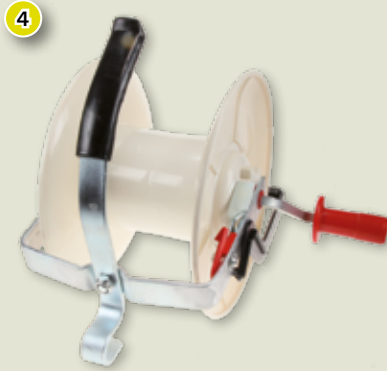
4 SET/KIT= 2*Nr.5 + 1*Nr.6 + 1*Nr.7



Photo	Art. nr.	Description	PU	€ price/PU
1	162-80197	Earth stake, 75 cm, for mobile devices	1	
2	162-80198	Earth stake, short, 45 cm with connector	1	
3	162-80199	Earth stake, long, 100 cm with connector	1	
4	162-80194	Earthpin set 2 m, incl. clamp and connection sleeve	1	
5	162-80195	Earthpin, 1 m 12 mm, excl. connection clamp	1	
6	162-80200	Connection sleeve for 12 mm earthpins	1	
7	162-80196	Connection clamp for earth pins	1	
8	162-85466	Frame for EC-models, with integrated earthing connection	1	
9	162-85465	Frame for ST, with integrated earthing connection	1	

PU=Packing Unit Price incl. VAT

2024



1. POWERGARD XP
Strong and intelligent

2. TRACTION BATTERY
12 Volt - 105 Ah

3 - 4. REELS
Sturdy reels with a high capacity.

5. TENSIONER
Re-inforced, black plastic tensioner

5. TENSION KIT WITH SMALL SPRING

7. POLY POST
Good price - quality balance

8. POLY WIRE
Blue poly wire, which is very visible for e.g. wild pigs.

9. CARRY CASE
Handy case for a fence, battery and solar panel



Crop protection

Even though electric fence systems are usually meant to keep animals within a certain area, there are also situations conceivable where animals need to be shut out.

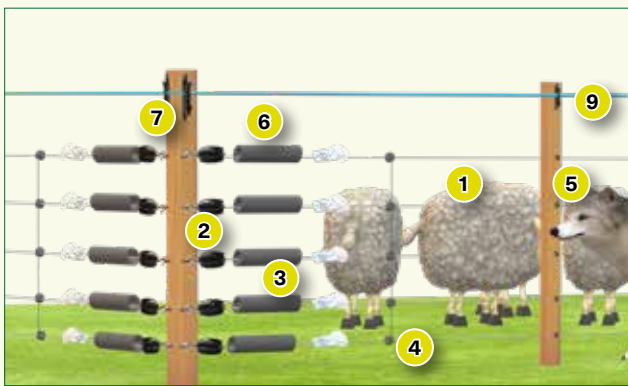
For example to protect crops against unwanted wild animals like deer and wild pigs.

KOLTEC has put together a kit for this situation which ensures you directly of an optimal electric fence.



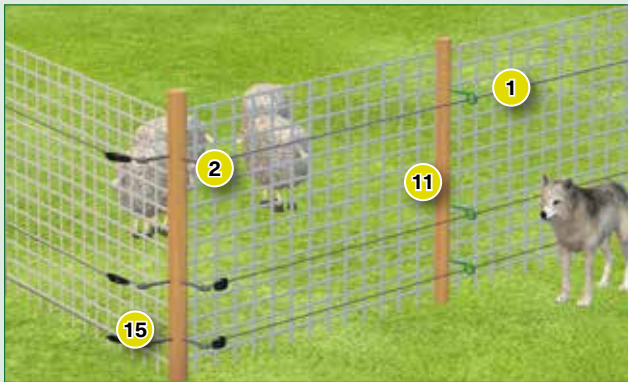
Photo	Art. nr.	Description	PU	€ price/PU
1	160-81087	Energiser KOLTEC Powergard XP 3,2 J 12 Volt battery device, incl. mains adapter	1	
2	163-45547	Traction battery, double pool, 12Volt-105Ah	1	
3	162-39029	Reel, large with strap	1	
4	162-39025	Reel, large geared 1:3 for 200 mtr tape/500 mtr polywire	1	
5	162-80150-zw	Strainer reinforced, synthetic, black, for wire	1	
6	162-70509	Strain set with strainer, egg-insulator with galvanized hooks and small spring	1	
7	162-80325-10	Posts, synthetic, white 105 cm, budget only per 10	10	
8	162-39040	Wire, blue 3*0,2niro + 3*0,25Cu 1000 mtr	1000	
	162-39041	Wire, blue 400 m, 21 PE + 3*0,2 INOX + 3*0,25 Cu, breaking strength 90 kg, resistance 0,10 Ohm/m	400	
9	162-60015	Box to carry a wet cell battery and/or Powergard or PG energiser	1	

PU=Packing Unit Price incl. VAT



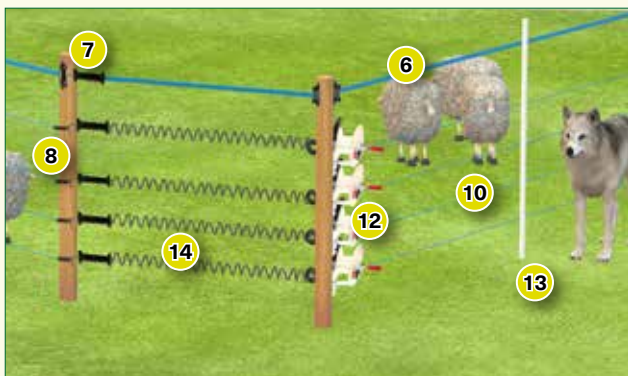
**Fence type 1:
Permanent fence**

Advice:
Install at least 4 but even better 5 steel wires with above a blue 20 mm tape. The wider 20 mm tape discourages the wolf to jump over the grid. Minimal fence height 120 cm. Advised conductor heights: 15/30/50/70/100/130 cm (blue 20 mm tape)



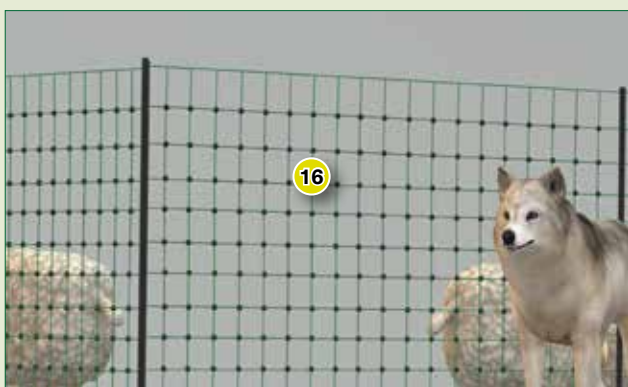
**Fence type 2:
Permanent existing (ursus) gauze fence**

Advice:
Install at least 2 wires with offset insulators (on the outside). The first wire installed on max 15 cm off the ground to prevent that the wolf can dig underneath the fence. The second wire installed on top of the fence but at least on 120 cm height to prevent jumping over or against the fence. As extra security a third wire can be installed on 40 cm. Minimum fence height is 120 cm. If the existing fence is too low, you can easily higher the fence by using the KOLTEC pigtail (offset) insulators.



**Fence type 3:
Temporary fence with reels**

Advice:
Install at least 4 wires and above a 20 mm blue tape. The wider blue tape discourages the wolf to jump over the fence. Minimum fence height is 120 cm. Advised conductor heights: 20/40/65/90/120 cm (blue 20 mm tape)



**Fence type 4:
Netting**

Advice:
Use the 2-pins poultry nets because these are 120 cm high and are very solid to place compared to the standard sheep nets which are 90 cm high. If you already use the standard sheep nets then they can be adjusted from 90 cm to a fence height of 120 cm by adding spare 2-pins posts for poultry nets. On these posts an extra (with preference for blue) electric wire or tape can be installed.



Energiser

Advice:
The fencer has to be powerful and suitable with the type of fence and fencing length. For mobile fences longer than 200 meter or with more than 2 nets, we advise the use of powerful wet cell battery powered energisers as the KOLTEC Powergard or Powergard XP. Because the wire close to the ground often has to deal with growth of weed, these wet cell battery powered energisers will always supply enough power to assure a sufficient tension on the fence.



Make your fence
WOLF resistant
with KOLTEC
products

Photo	Art. nr.	Description	PU	€ price/PU
1	162-39221	Wire, aluminised steel, ± 650 m 2,5 mm, 25 kg, breaking strength 500 kg, resistance 35	650	
2	162-70504-4	Egg-insulators with 1 INOX hook and INOX screw eye	4	
	162-80077-4	Egg-insulators without hooks in package	4	
3	162-70505	Strain set, INOX, egg-insulator with hook, spring and ratchet strainer	1	
4	162-39089-4	Clamps for connecting iron-aluminium- and steel wire	4	
5	162-80086-25	Ring insulators with iron core	25	
6	162-39060	Tape, blue 20 mm, 4*0,2INOX+1*0,25Cu+1*0,15INOX cross	200	
7	162-80068-4	Insulators for tape, solid corner or in between insulators	4	
8	162-80069-2	Strain/corner insulators, very strong with INOX plate	2	
9	162-80400-25	Tape insulators KOLTEC, short for wooden posts per bag	25	
10	162-39041	Wire, blue 400 m, 21 PE + 3*0,2 INOX + 3*0,25 Cu, breaking strength 90 kg, resistance	400	
11	162-80123	Offset pigtail insulator, green, 20 cm 8 mm, for wooden posts	1	
12	162-39025	Reel, large geared 1:3 for 200 mtr tape/500 mtr polywire	1	
	162-60021	Support bracket for reel 162-39024 & 25	1	
13	162-80338-10	Posts, synthetic, black 154 cm, budget only per 10	10	
14	162-80004	Gate kit with spring, galvanized, not suitable for horses	1	
15	162-65016	Screw eye, Ø 12 mm 168 mm long with wood thread	1	
	162-65015	Screw eye, Ø 12 mm 278 mm long with wood thread	1	
16	880 0013-391	Wolf net 130 cm, 50 mtr	1	
	880 0013-392	Net for wolves and wildlife, 165 cm, 50 mtr	1	
17	162-80009-25	Click insulators, red, for Ø 12 mm posts	25	
18	160-81087	Energiser KOLTEC Powergard XP 3,2 J 12 Volt battery device, incl. mains adapter	1	
	160-81037	Energiser KOLTEC Powergard 2,0 Joule, incl. mains adapter	1	
19	162-60015	Box to carry a wet cell battery and/or Powergard or PG energiser	1	
20	162-85515	Solar panel 20 Watt incl. charge regulator for Powergard XP, 48 * 37 cm 2,6 kg	1	

PU=Packing Unit Price incl. VAT

2024

ZOO & WILDLIFE PARKS

EXTREME CIRCUMSTANCES

For some considerable time KOLTEC is occupied with the development of electric fences for special projects as Zoo's and Wildlife parks. It is obvious that the requirements here are at a much higher level than for the common farm cattle.

Some animals can be extremely dangerous for people and that requires a well-balanced fence plan. In some other cases the animals are just insensitive for current or very handy in avoiding the electric wires. Per type of animal will therefore always be searched for a suitable made-to-measure solution.

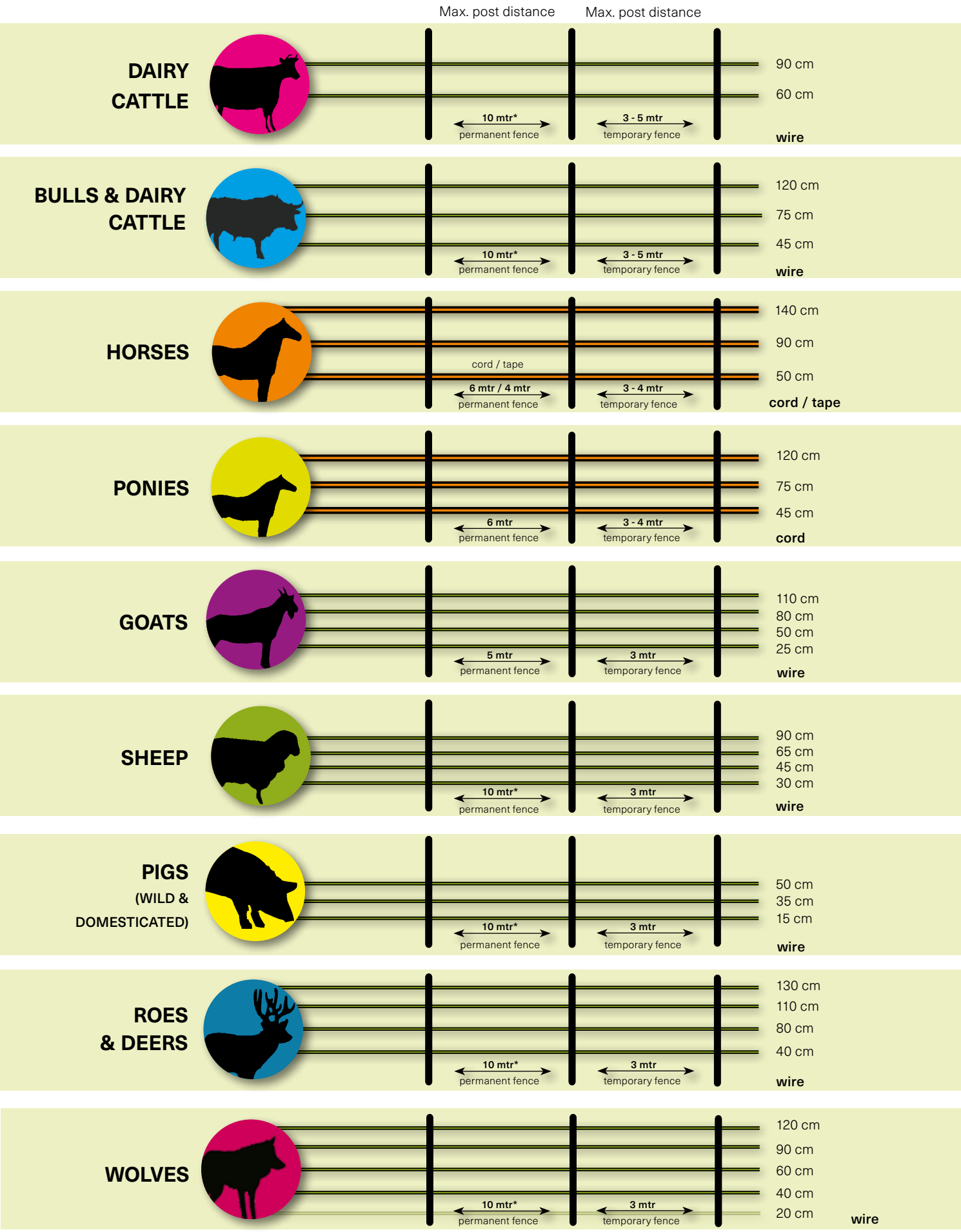




"Appropriate custom solution per animal species".

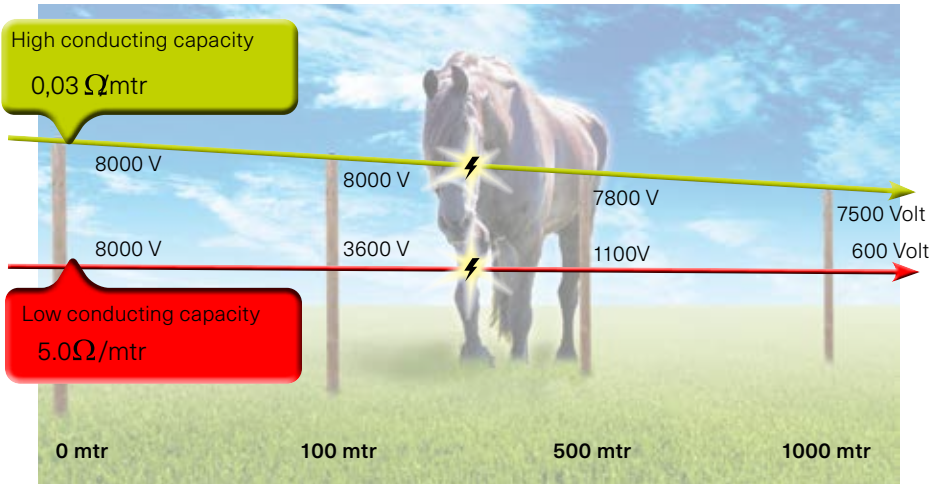


CONDUCTOR HEIGHTS



* With the use of strain springs

Example indication of difference in conducting capacity



CEE Application length

This is the length of your fence, based on an ideal wire at one meter and at 20 degree celsius, where the tension at the end of the wire is still 1.500 Volt. This length will be shorter with wires on lower heights, vegetation growth and wire with a higher resistance. The length will again be influenced negative by the use of poly wire with a higher resistance.

Conductors



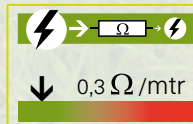
Suitable for longer fences



Suitable for fences with a maximum fence length of 200 mtr



Cross, vertical connection that connects the horizontal connectors



Indication **resistance** in Ohm per (Kilo)Meter. A lower number means less resistance and therefore more current/volts over a longer distance. The further the arrow points to red, the higher the resistance of this product.



Number of connectors in or round wire, rope or tape. More and thicker connectors means a better current transit. The material can exist out of INOX or copper (Cu).



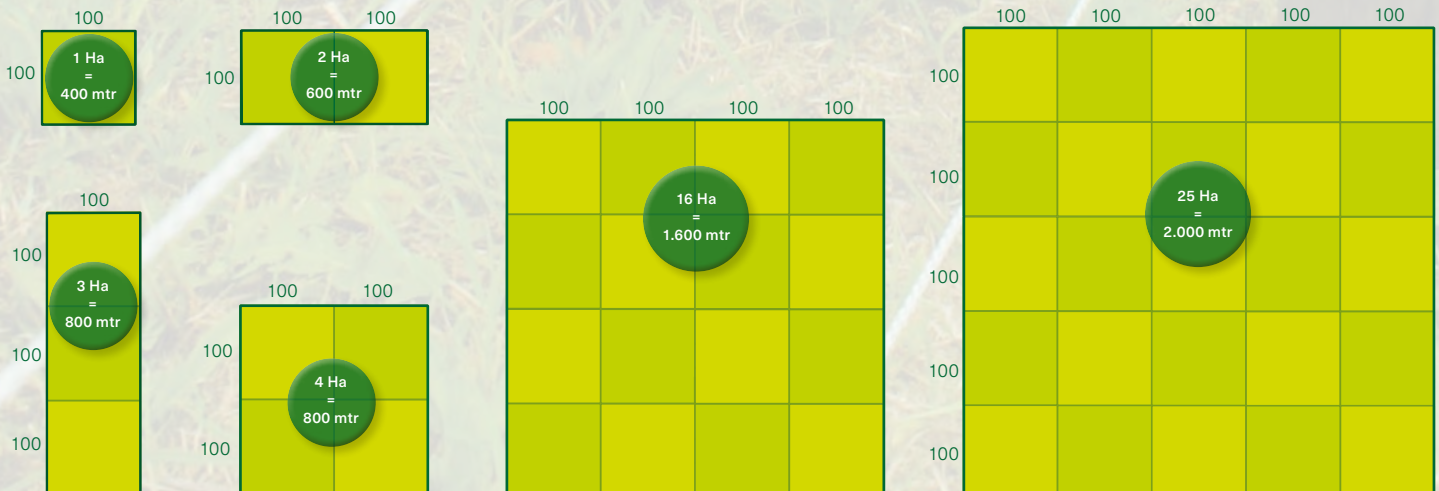
Breaking strength (pull weight) Indication of the breakpoint in Kilogram.

Resistance

The resistance is being measured in Ohm (R). The resistance slows the energy down. $R=U/I$. No resistance means short circuit, 1.000.000 Ω means a good insulation. An animal or a person has an average resistance of about 500 R. For this reason the power and the impulse energy with this resistance are the relevant values to compare electric fences. Also conductors like wire, tape and rope have a resistance. The resistance of the various conductors is different. Aluminum wire has a very low resistance and is therefore most suitable for very long fences.

PE:

Conductors constructed with Polyethyleen wires have a long endurance.



ACCESSORIES



Photo	Art. nr.	Description	PU	€ price/PU
1	162-70504-4	Egg-insulators with 1 INOX hook and INOX screw eye	4	
2	162-80152-8	Insulation tubes, synthetic with iron inlay, 60 cm long, for max. 3 mm wire	8	
3	162-70505	Strain set, INOX, egg-insulator with hook, spring and ratchet strainer	1	
4	162-70508	Strain set with strainer, egg-insulator with INOX hooks and small spring	1	
5	162-80174-250	Ring insulators with iron core, for wooden posts, bucket 250 pieces	250	
6	162-80085-100	Ring insulators standard, bucket	100	
7	162-80086-200	Ring insulators with iron core, bucket	200	
8	162-80081-100	W-insulators, black, in bucket, strong insulators for wire and rope	100	
9	131-15183-200	Woodscrew, 3,5 * 25 mm PZ-2 panh., galv.	200	
10	162-80146-4	Rotor strainers for wire and rope 4 pcs	4	
	162-80146-50	Rotor strainers for wire and rope 50 pcs	50	
11	162-80140	Ratchet strainer, solid for aluminium and steel wire	1	
12	162-80160-2	Straining set, INOX, for rope, with hook and screw eyes	2	
13	162-80145	Wire strainer, large, galvanized, 13 cm long and 5 cm wide (nr.4)	1	
14	162-80144	Wire strainer, small, galvanized, 10 cm long and 3 cm wide (nr.2)	1	
15	162-85479-3	Wire connector for steel wire 1.8 - 2.5 mm	3	
16	162-39089-4	Clamps for connecting iron-aluminium- and steel wire	4	
17	162-85458	Fencing tool, multifunctional	1	
18	162-85482	Wire plier for steel wire	1	

PU=Packing Unit Price incl. VAT



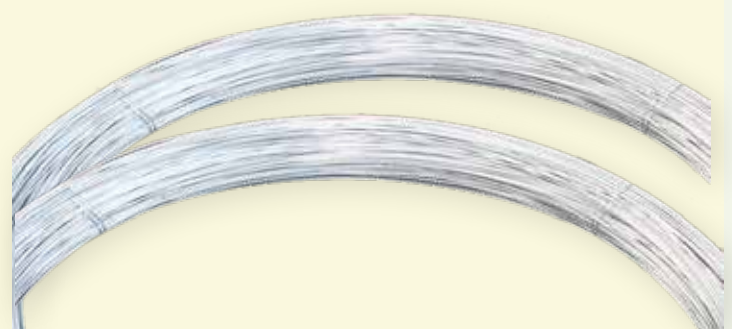
ALUMINUM WIRE



ALUMINUM WIRE



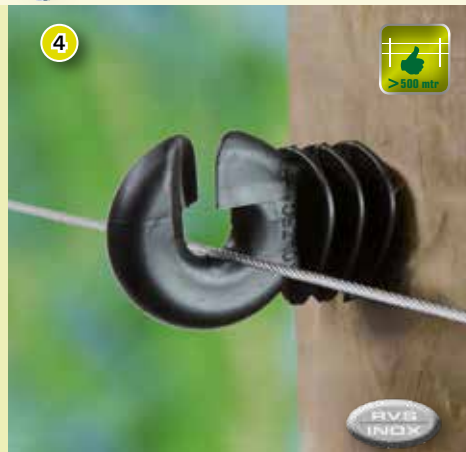
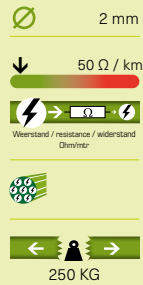
ALUMINISED STEEL WIRE



ALUMINISED STEEL WIRE



ZINC PLATED WIRE 2.0



RVS/INOX316 STEEL WIRE



4

Photo	Art. nr.	Description	PU	€ price/PU
1	162-39200	Wire, aluminium, 1,6 mm, 2,4 kg	400	
	162-39205	Wire, aluminium, 1,6 mm, 4,8 kg	800	
	162-39220	Wire, aluminium, 2,0 mm, 3,6 kg	400	
2	162-39225	Wire, aluminised steel, 1,6 mm 25 kg	1580	
	162-39221	Wire, aluminised steel, 2,5 mm 25 kg	650	
3	162-39222	Wire, galvanized, 2,0 mm, 10 kg	400	
4	162-39227	Wire, inox316, twined 7*19 2,0 mm	200	
	162-39228	Wire, inox316, twined 7*19 2,0 mm	500	

PU=Packing Unit Price incl. VAT

ACCESSORIES



Photo	Art. nr.	Description	PU	€ price/PU
1	162-70500-4	Egg-insulators, black, with 1 hook and screw eye	4	
2	162-80085-25	Ring insulators, standard	25	
3	162-80088-25	Ring insulators, small for wooden constructions	25	
4	162-80081-25	W-insulators, black, strong insulators for wire and rope	25	
5	131-15183-200	Woodscrew, 3,5 * 25 mm PZ-2 panh., galv.	200	
6	162-85608	All-round connection kit, INOX, with crocodile clip, red and black, length 150 cm	1	
7	162-85613-2	Reel cable kit, connecting conductors to main fence	2	
8	162-85605-2	Connection kit, INOX, for wire, with 70 cm long wire	2	
9	162-39091-4	Connectors, single for wire up to 4 mm, galvanized with wing nuts	4	
	162-39093-4	Connectors, single for wire up to 4 mm, INOX, with wing nuts and connection tab	4	
10	162-39096-4	Connectors for wire up to 4 mm, galvanized, with wing nuts	4	
	162-39099-4	Connectors for wire up to 4 mm, INOX, with wing nuts	4	
11	162-80150-wit	Strainer reinforced, synthetic, white, for wire	1	
	162-80150-2wt	Strainer reinforced, synthetic, white, for wire, package of 2	2	
12	162-80150-zw	Strainer reinforced, synthetic, black, for wire	1	
	162-80150-2zw	Strainer reinforced, synthetic, black, for wire, package of 2	2	
13	162-80176-2	Wire strainer for thin synthetic wire	2	

PU=Packing Unit Price incl. VAT

	<p>Ø 2,0 mm</p> <p>7,60 Ω/mtr ↓</p> <p>Weerstand / resistance / widerstand Ohm/mtr</p> <p>3*0,20 inox</p> <p>55 KG</p>		<p>Ø 2,0 mm</p> <p>↓ 0,19 Ω/mtr</p> <p>Weerstand / resistance / widerstand Ohm/mtr</p> <p>3*0,20 inox 1*0,25 Cu</p> <p>65 KG</p>		<p>Ø 3 mm</p> <p>↓ 3,80 Ω/mtr</p> <p>Weerstand / resistance / widerstand Ohm/mtr</p> <p>6*0,20 inox</p> <p>110 KG</p>
	<p>Ø 2,0 mm</p> <p>7,60 Ω/mtr ↓</p> <p>Weerstand / resistance / widerstand Ohm/mtr</p> <p>3*0,20 inox</p> <p>55 KG</p>		<p>Ø 3 mm</p> <p>↓ 0,10 Ω/mtr</p> <p>Weerstand / resistance / widerstand Ohm/mtr</p> <p>3*0,20 inox 3*0,25 Cu</p> <p>90 KG</p>		<p>Ø 3,5 mm</p> <p>↓ 0,19 Ω/mtr</p> <p>Weerstand / resistance / widerstand Ohm/mtr</p> <p>3*0,20 inox 2*0,25 Cu</p> <p>160 KG</p>
	<p>Ø 3 mm</p> <p>↓ 2,50 Ω/mtr</p> <p>Weerstand / resistance / widerstand Ohm/mtr</p> <p>9*0,20 inox</p> <p>110 KG</p>		<p>Ø 2,5 mm</p> <p>↓ 0,13 Ω/mtr</p> <p>Weerstand / resistance / widerstand Ohm/mtr</p> <p>4*0,20 inox 2*0,30 Cu</p> <p>100 KG</p>		<p>Ø 3,5 mm</p> <p>↓ 0,03 Ω/mtr</p> <p>Weerstand / resistance / widerstand Ohm/mtr</p> <p>6*0,30 inox 3*0,25 Cu</p> <p>150 KG</p>
	<p>Ø 2,5 mm</p> <p>↓ 0,13 Ω/mtr</p> <p>Weerstand / resistance / widerstand Ohm/mtr</p> <p>4*0,20 inox 2*0,30 Cu</p> <p>100 KG</p>		<p>Ø 3,5 mm</p> <p>↓ 0,03 Ω/mtr</p> <p>Weerstand / resistance / widerstand Ohm/mtr</p> <p>6*0,30 inox 3*0,25 Cu</p> <p>150 KG</p>		



Photo	Art. nr.	Description	PU	€ price/PU	Photo	Art. nr.	Description	PU	€ price/PU
1	162-39000	Wire, orange, 12 PE	100		7	162-39100	Wire poly, white gr/rd, 36 PE	250	
	162-39020	Wire, orange, 12 PE	250			162-39105	Wire poly, white gr/rd, 36 PE	500	
2	162-39010	Wire, black, 12 PE	100			162-39104	Wire poly, white gr/rd, 36 PE	1.000	
	162-39015	Wire, black, 12 PE	250		8	162-39121	Wire, braided wt/gr, 24 PE	200	
3	162-39023	Wire, green, braided	100			162-39122	Wire, braided wt/gr, 24 PE	500	
4	162-39004	Wire, orange, 24 PE	250			162-39123	Wire, braided wt/gr, 24 PE	1.000	
	162-39005	Wire, orange, 24 PE	500		9	162-39121	Wire, braided wt/gr, 24 PE	200	
5	162-39008	Wire, white, 24 PE	250			162-39122	Wire, braided wt/gr, 24 PE	500	
	162-39009	Wire, white, 24 PE	500			162-39123	Wire, braided wt/gr, 24 PE	1.000	
	162-39011	Wire, white, 24 PE	1.000		10	162-39127	Wire, black, 30 PE	200	
6	162-39041	Wire, blue 21 PE	400			162-39126	Wire, black, 30 PE	500	
	162-39040	Wire, blue 21 PE	1.000			162-39124	Wire, black, 30 PE	1.000	

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PU=Packing Unit Price incl. VAT

ACCESSORIES



Photo	Art. nr.	Description	PU	€ price/PU
1	162-80156-2	Straining set, INOX, for rope, with hook and screw eyes	2	
2	162-80054-25	Dump insulators KOLTEC, yellow+black cap, for M10 and M12 thread	25	
3	162-80170-100	Ring insulators KOLTEC, in bucket	100	
4	162-80185-100	Hook-ring insulators, short, for wooden posts, in bucket	100	
5	162-80081-100	W-insulators, black, in bucket, strong insulators for wire and rope	100	
6	162-80180-100	W-insulators, white, in bucket, strong insulators for wire and rope	100	
7	131-15183-200	Woodscrew, 3,5 * 25 mm PZ-2 panh., galv.	200	
8	162-70504-4	Egg-insulators, black, with 1 INOX hook and INOX screw eye	4	
9	162-70604-4	Egg-insulators, white, with 1 INOX hook and INOX screw eye	4	
10	162-39097-4	Connectors for rope up to 8 mm, galvanized, with wing nuts	4	
	162-39098-4	Connectors for rope up to 8 mm, INOX, with wing nuts	4	
11	162-39092-4	Connectors, single for rope up to 8 mm, galvanized with wing nuts	4	
12	162-39094-4	Connectors, single for rope up to 8 mm, INOX, with wing nuts and connection tab	4	
13	162-80146-4	Rotor strainers for wire and rope 4 pcs	4	
	162-80146-50	Rotor strainers for wire and rope 50 pcs	50	
14	162-85607	Connection kit, INOX, for rope, length 150 cm	1	
15	162-85604-2	Connection kit, INOX, for rope, with 70 cm long wire	2	
16	162-85601-2	Connection kit, INOX, tape to rope, with 70 cm long wire	2	

PU=Packing Unit Price incl. VAT



100% POLYETHYLENE TWINED CORD
 This cord is very securely twined with 9 conductors that provide very low resistance. The material is highly UV-resistant and, combined with professional assembly, ensures a very long lifespan of more than 10 years.

PE CONSTRUCTION

∅ 6 mm

↓ 0,03 Ω/mtr



Weerstand / resistance / widerstand
Ωmm/mtr

6*0,30 inox
3*0,25 Cu



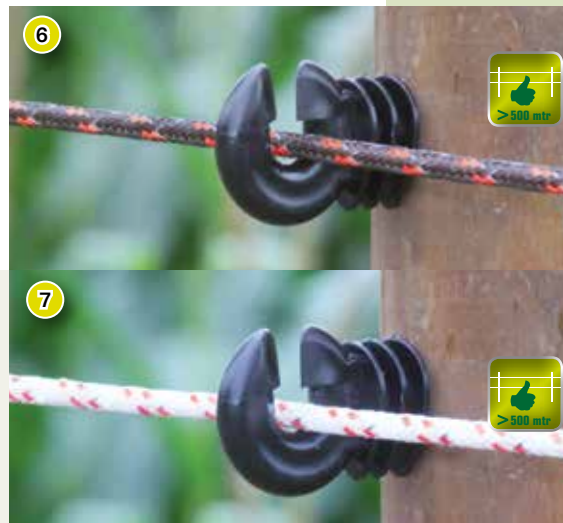
550 KG

SOFT CORE, WITH BRAIDED PE SURFACE

This is a safe rope with a soft contact surface and a breaking strength of only 225 kg. By the construction of a soft core with around it a woven structure of PE-wires this rope will stretch a little if an animal in panic want to flee through it or in the unlikely event get entangled.



∅ 4 & 6 mm
 ↓ 0,13 Ω/mtr
 Weerstand / resistance / widerstand
Ωmm/mtr
 4*0,20 inox
2*0,3 Cu
 200 / 225 KG



∅ 6 mm

↓ 0,08 Ω/mtr



Weerstand / resistance / widerstand
Ωmm/mtr

8*0,20 inox
3*0,30 Cu



225 KG



∅ 6 mm
 ↓ 0,13 Ω/mtr
 Weerstand / resistance / widerstand
Ωmm/mtr
 4*0,20 inox
2*0,3 Cu
 225 KG



∅ 6 mm

↓ 0,13 Ω/mtr



Weerstand / resistance / widerstand
Ωmm/mtr

8*0,20 inox
3*0,30 Cu



225 KG



Ideal knot to connect cord to a gate handle.



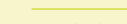
∅ 5 mm

↓ 1,90 Ω/mtr



Weerstand / resistance / widerstand
Ωmm/mtr

3*0,40 inox



380 KG

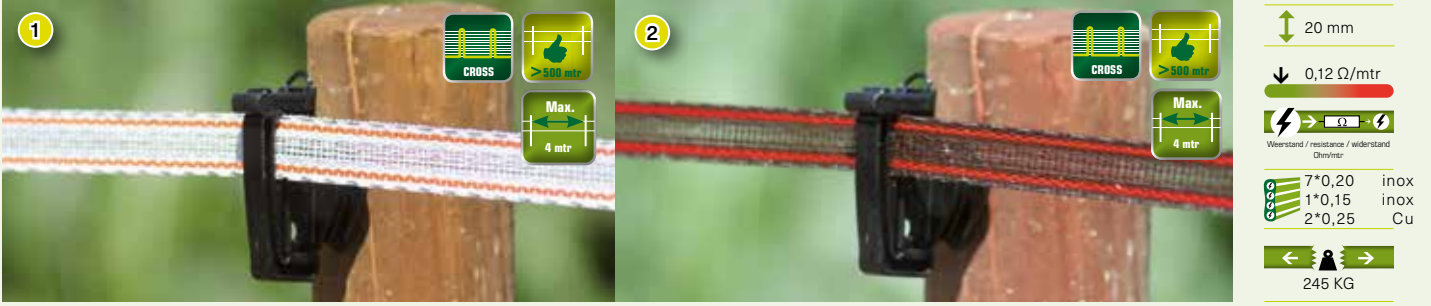
Photo	Art. nr.	Description	PU	€ price/PU
1	162-39128	Rope, green, PE	200	
	162-39133	Rope, green, PE	500	
2	162-39129	Rope, white, PE	200	
	162-39134	Rope, white, PE	500	
3	162-39131	Rope, black, PE	200	
	162-39132	Rope, black, PE	500	
4	162-39120	Rope, 6 mm white/gr braided	200	
	162-39118	Rope, 6 mm white/gr braided	500	
	162-39110	Rope, 4 mm white/gr braided	200	
	162-39112	Rope, 4 mm white/gr braided	500	

Photo	Art. nr.	Description	PU	€ price/PU
5	162-39146	Rope, 6 mm brown/gr, braided	200	
	162-39147	Rope, 6 mm brown/gr, braided	500	
6	162-39116	Rope, 6 mm brown/rd, braided	200	
	162-39117	Rope, 6 mm brown/rd, braided	500	
7	162-39114	Rope, 6 mm white/rd, braided	200	
	162-39115	Rope, 6 mm white/rd, braided	500	
8	162-39144	Rope 6 mm braided black/rd	200	
	162-39145	Rope 6 mm braided black/rd	500	
9	162-39021	Rope, 5 mm white gr/rd PP	200	
	162-39022	Rope, 5 mm white gr/rd PP	500	

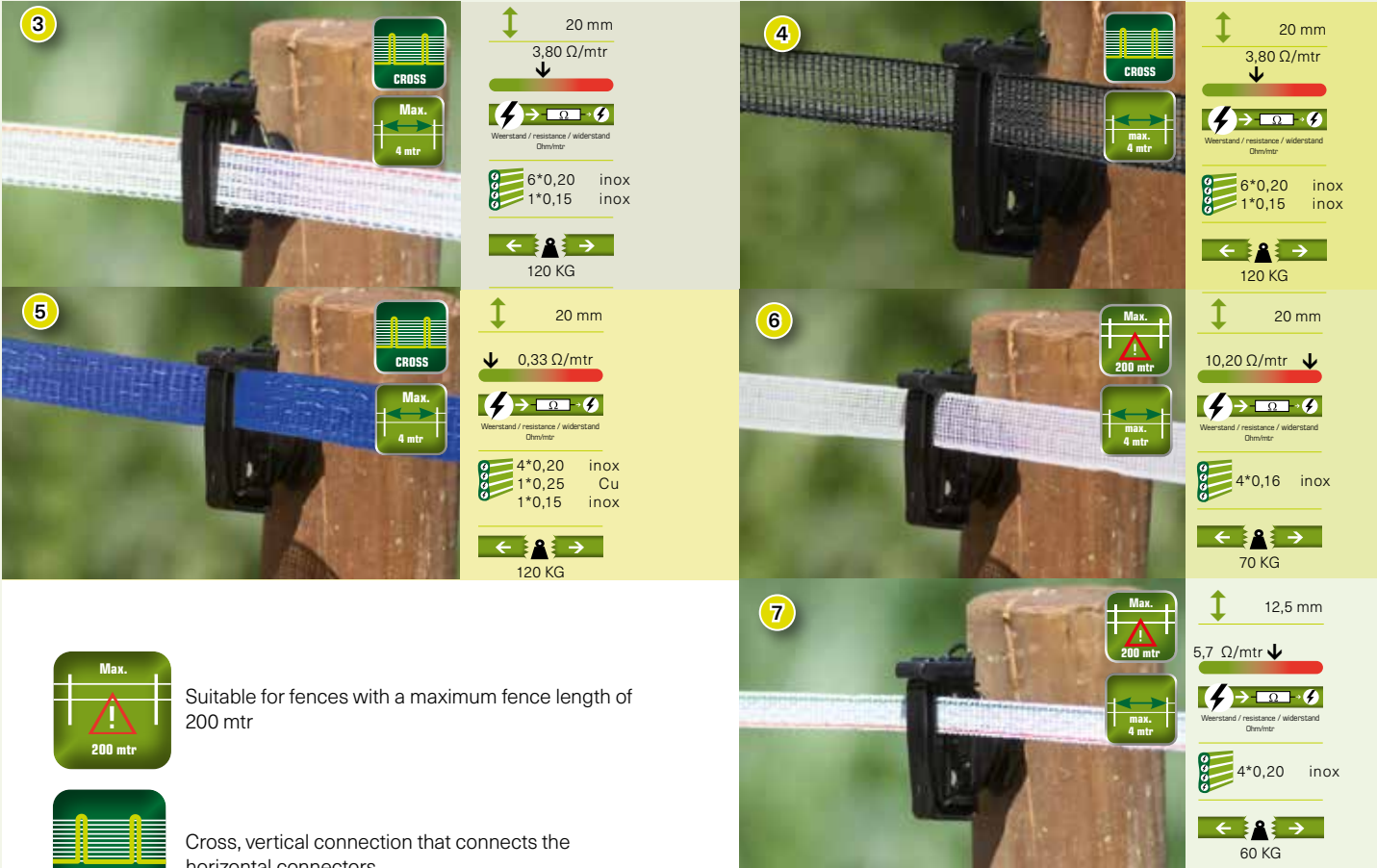
PU=Packing Unit Price incl. VAT

PU=Packing Unit Price incl. VAT

POLY TAPE 20 / 12,5 mm



This tape has a quick transfer of the shock because on the outer edge of the PE reinforced outside bundles run with 2 INOX wires within turned a thick 0.25 Cu (copper) wire. Once an animal is hanging over the tape or want to graze underneath there is direct contact and the shock is quickly transferred. The applied cross connection every 14 cm ensures a long life of the high conductive ability of this tape.



Max. 200 mtr
Suitable for fences with a maximum fence length of 200 mtr

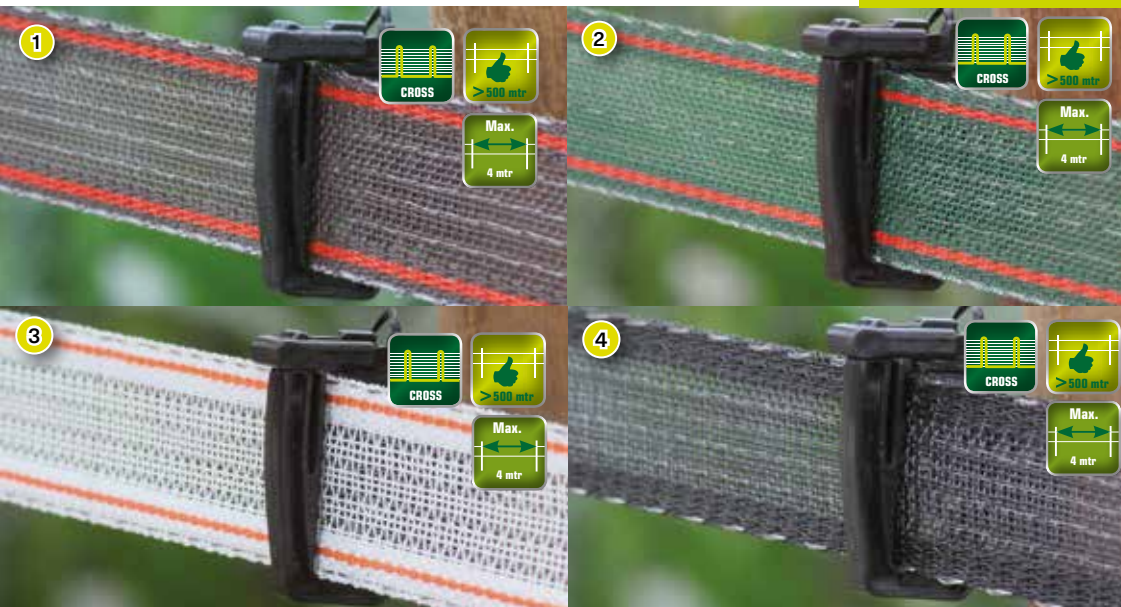
CROSS
Cross, vertical connection that connects the horizontal connectors

> 500 mtr
Suitable for longer fences

Max. 4 mtr
Recommended distance between two poles.

Photo	Art. nr.	Description	PU	€ price/PU
1	162-39061	Tape reinforced, white/rd, PE	200	
2	162-39062	Tape reinforced, br./rd, PE	200	
3	162-39072	Tape, white gr/gr PE	200	
4	162-39058	Tape, black, PE	200	
5	162-39060	Tape, blue, PE	200	
6	162-39063	Tape, white, PE	200	
7	162-39071	Tape, white gr/gr PE	200	

PU=Packing Unit Price incl. VAT



40 mm

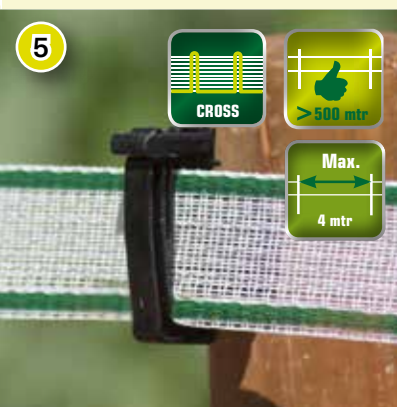
0,12 Ω/mtr

Weerstand / resistance / wderstand Ohm/mtr

16*0,20 inox
1*0,15 inox
2*0,30 Cu

345 KG

This tape is constructed with 19 conductors and has high conducting capacity (low resistance). This tape has a quick transfer of the shock because on the outer edge of the PE reinforced outside bundles run with 4 INOX wires within turned a thick 0.30 Cu (copper) wire. Once an animal is hanging over the tape or want to graze underneath there is direct contact and the shock is quickly transferred. The applied cross connection every 14 cm ensures a long life of the high conductive ability of this tape.



40 mm

0,17 Ω/mtr

Weerstand / resistance / wderstand Ohm/mtr

10*0,20 inox
1*0,15 inox
2*0,25 Cu

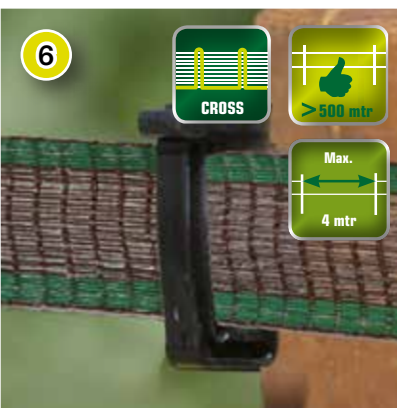
300 KG

CROSS

Max. 4 mtr

Max. 200 mtr

>500 mtr



40 mm

0,17 Ω/mtr

Weerstand / resistance / wderstand Ohm/mtr

10*0,20 inox
1*0,15 inox
2*0,25 Cu

300 KG



40 mm

5,10 Ω/mtr

Weerstand / resistance / wderstand Ohm/mtr

8*0,16 inox

90 KG

Photo	Art. nr.	Description	PU	€ price/PU
1	162-39082	Tape reinforced, brown/red, PE	200	
	162-39086	Tape reinforced, brown/red, PE	400	
2	162-39081	Tape reinforced, green/red, PE	200	
	162-39085	Tape reinforced, green/red, PE	400	
3	162-39080	Tape reinforced, white/red, PE	200	
	162-39084	Tape reinforced, white/red, PE	400	
4	162-39083	Tape reinforced, black, PE	200	
	162-39087	Tape reinforced, black, PE	400	
5	162-39070	Tape, white/green, PE	100	
	162-39073	Tape, white/green, PE	200	
	162-39076	Tape, white/green, PE	400	
6	162-39078	Tape, brown/green, PE	100	
	162-39077	Tape, brown/green, PE	200	
	162-39075	Tape, brown/green, PE	400	
7	162-39065	Tape, white, PE	200	

PU=Packing Unit Price incl. VAT

ACCESSORIES FOR TAPE



+ = Incl. / Inkl.

Photo	Art. nr.	Description	PU	€ price/PU
1	162-80068-4	Insulators for tape, solid corner or in between insulators	4	
2	162-80069-2	Strain/corner insulators, very strong with INOX plate	2	
3	162-80173-3	Tape strainer, synthetic	3	
4	162-80400-100	Tape insulators KOLTEC, short for wooden posts in bucket	100	
5	162-80404-25	Inbetween insulator for tape, bag with 25 pcs	25	
	162-80404-100	Inbetween insulator for tape, bucket with 100 pcs	100	
6	162-80142-4	Connectors, INOX, for tape up to 50 mm	4	
7	162-80143-2	Gate handle plates, INOX, for connecting tape up to 50 mm to a gate handle	4	
8	162-80172-4	Corner insulator for tape, with strain handles, 4 pieces	2	
9	162-85612-2	Connection kit for tape/HT-cable, with ring and connection eye	2	
10	162-85606	Connection kit, INOX, for tape, length 150 cm	1	
11	162-85601-2	Connection kit, INOX, tape to rope, with 70 cm long wire	2	
12	162-85603-2	Connection kit, INOX, for tape, with 70 cm long wire	2	

PU=Packing Unit Price incl. VAT



Suitable for longer fences



Suitable for fences with a maximum fence length of 200 mtr



Cross, vertical connection that connects the horizontal connectors



Recommended distance between two poles.

Use in combination with plastic posts for temporary fences rope or 20 mm tape. Wider tape catches to much wind and that will blow the posts down.



Use by a permanent fence the right insulators with a special 20 mm slit to maximize the period of use. You can find more information about tape insulators on page 82.



HIPPO LONG LIFE

Quick and solid mounting



Photo	Art. nr.	Description	PU	€ price/PU
1	162-70504-4	Egg-insulators with 1 INOX hook and INOX screw eye	4	
2	162-70604-4	Egg-insulators with 1 INOX hook and INOX screw eye	4	
3	162-80156-2	Straining set, INOX, for rope, with hook and screw eyes	2	
4	162-39088	Connector for rope up to 10 mm, INOX, with M6 nuts	1	
5	162-80081-100	W-insulators, black, in bucket, strong insulators for wire and rope	100	
6	162-80180-100	W-insulators, white, in bucket, strong insulators for wire and rope	100	
7	131-15183-200	Woodscrew, 3,5 * 25 mm PZ-2 panh., galv.	200	
8	162-80185-100	Hook-ring insulators, short, for wooden posts, in bucket	100	
9	162-80123	Offset pigtail insulator, green, 20 cm 8 mm, for wooden posts	1	
10	162-80146-4	Rotor strainers for wire and rope 4 pcs	4	
	162-80146-50	Rotor strainers for wire and rope 50 pcs	50	
11	162-79700-25	W-skirt insulator M8/M10/M12	25	
12	162-80035-25	W-skirt insulators, large, black, incl. short 8 mm bracket for wooden posts	25	

60 / 40 / 20 cm
see page 86

Hippo Long Life is 8 mm thick and finished on the outside with polyester synthetic material. The inside exists of a pp. fiber which makes the product feels soft. The conductors exist out of 6 thick INOX wires of 0,4 mm and 3 Long Life copper wires of 0,7 mm thick. The copper wires are coated with a plastic, conducting alloy and processed on the inside of the polyester braid, which protects them very well against corrosion and mechanical influences. The INOX wires are processed crosswise and make the contact to the outside.

Because the product is light and flexible, it is easier to install. The polyester outside takes care of a smooth finishing. With the braiding of INOX wires in the casing the contact surface is larger, making the fence more effective. Mounted in a permanent way, the life time is very long. The expected lifetime is more than 10 years.

- Very good conduction
- Soft
- Smooth surface
- Large contact surface
- Highly visible
- Long lifetime
- Simple installation
- Very high UV-durability



∅ 8 mm

↓ 0,07 Ω/mtr

⚡ → Ω → ⚡
Weerstand / resistance / widerstand
Ohm/mtr

6*0,40 inox
3*0,7 LLCu

← →
700 KG

Photo	Art. nr.	Description	PU	€ price/PU
1	162-39137	Hippo Long Life, white	300	
2	162-39139	Hippo Long Life, brown	300	

PU=Packing Unit Price incl. VAT

LONG LIFE CABLE



Photo	Art. nr.	Description	PU	€ price/PU
1	162-79700-25	W-skirt insulator M8/M10/M12	25	
2	162-70505	Strain set, INOX, egg-insulator with hook, spring and ratchet strainer	1	
3	162-70504-4	Egg-insulators with 1 INOX hook and INOX screw eye	4	
4	162-70604-4	Egg-insulators with 1 INOX hook and INOX screw eye	4	
5	162-80149-rvs	Straining spring, large, INOX, for steel wire	1	
6	162-39089-4	Clamps for connecting iron-aluminium- and steel wire	4	
7	162-80081-100	W-insulators, black, in bucket, strong insulators for wire and rope	100	
8	162-80180-100	W-insulators, white, in bucket, strong insulators for wire and rope	100	
9	131-15183-200	Woodscrew, 3,5 * 25 mm PZ-2 panh., galv.	200	
10	162-80185-100	Hook-ring insulators, short, for wooden posts, in bucket	100	
11	162-85472	Screw aid KOLTEC, metal aid for KOLTEC hook-ring insulators	1	
12	162-80146-4	Rotor strainers for wire and rope 4 pcs	4	
	162-80146-50	Rotor strainers for wire and rope 50 pcs	50	
13	162-70506	Egg-insulator with two INOX hooks, single	1	
14	162-85479-3	Wire connector for steel wire 1.8 - 2.5 mm	3	
15	162-39033	Wire dispenser for heavy steel wire & Long Life Cable	1	

PU=Packing Unit Price incl. VAT

LONG LIFE CABLE



8 mm
 0,03 Ω/mtr

 Weerstand / resistance / widerstand
 Ohm/mtr
 1 * 2,5mm

 600 KG

- **Good conductivity**
- **Strong**
- **Smooth surface**
- **Good contact surface**
- **Highly visible**
- **Long lifetime**
- **Professional installation necessary**
- **Very high uv-durability**

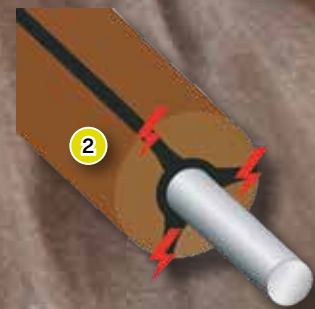


Photo	Art. nr.	Description	PU	€ price/PU
1	162-39142	Long Life Cable, white	300	
2	162-39143	Long Life Cable, brown	300	

PU=Packing Unit Price incl. VAT

NETTING



1. Electrified netting for sheep (Green)

Strong sheep net with moulded junctions on 8 horizontal, green strands. The bottom strand is always black and has no conductors. Posts have a single or double spike of 18 cm. The net is 25 or 50 mtr long en 84 cm high. The space between the vertical twines is 16,5 cm.



2. Electrified netting for poultry (Green)

Strong poultry net with moulded junctions on 12 horizontal strands. The net is green and supplied with black posts with a single or double spike of 18 cm. The net is 25 or 50 mtr long and 107 cm or 120 cm high. The space between the vertical twines is 7,6 cm.

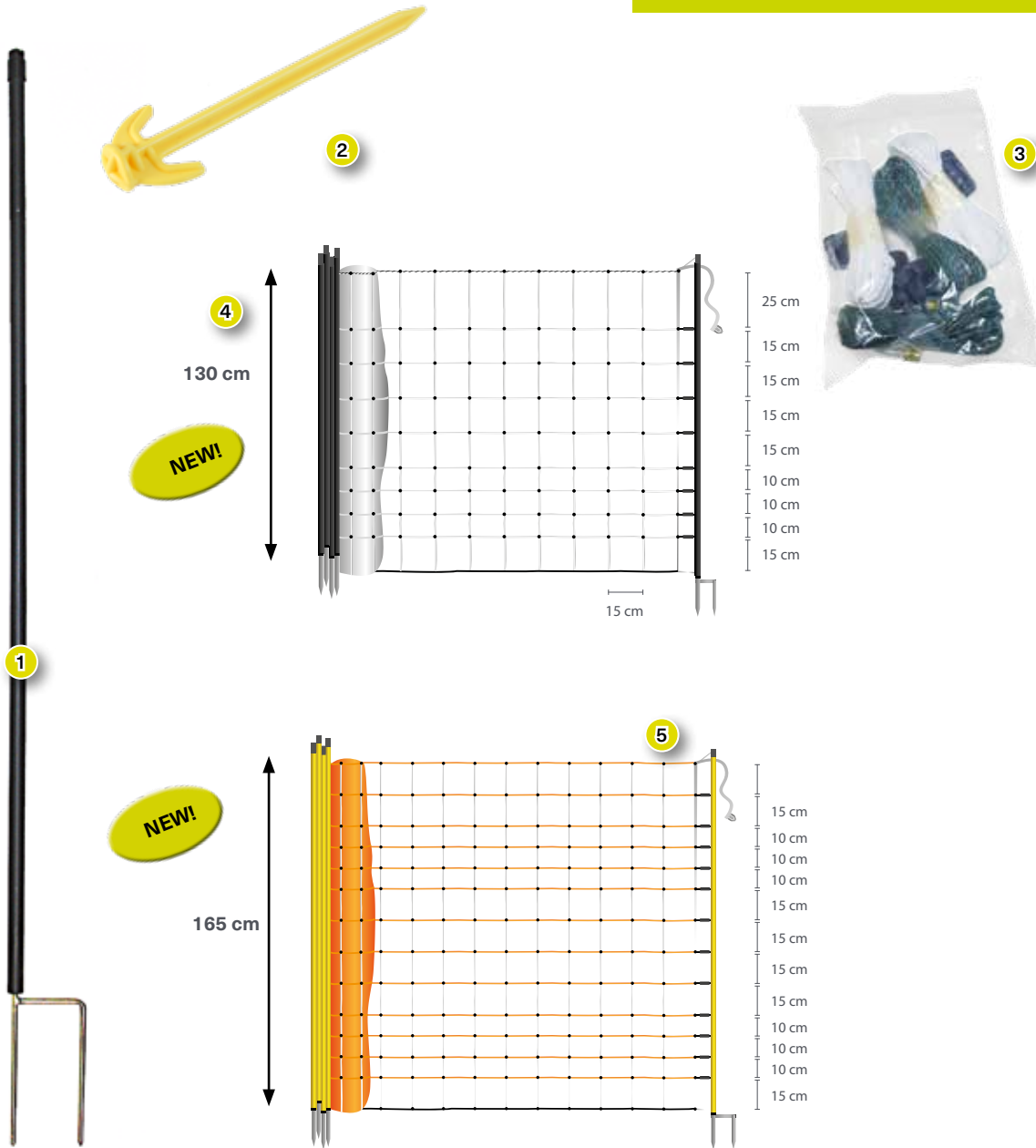


3. Electrified netting for rabbits (Green)

Rabbit net with moulded junctions on 7 horizontal strands. Supplied with posts with a single spike of 18 cm. The net is 50 mtr long en 50 cm high. The space between the vertical twines is 7,6 cm.

Photo	Art. nr.	Description	PU	€ price/PU
1	162-50000	Sheep net green 50 m long 84 cm high	1	
	162-50000-1	Post extra/exchange for green sheep net	1	
	162-50000-12p	Post, spare, for sheep netting, 2 pins	1	
	162-50000-2p	Sheep net green, 2 pins, 50 m long 84 cm high	1	
	162-50012-2p	Sheep net green, 2 pins, 25 m long 84 cm high	1	
2	162-50002	Poultry net green 50 m long 107 cm high	1	
	162-50009	Poultry net green 25 m long 107 cm high	1	
	162-50002-1	Extra and/or exchange post for green poultry net	1	
	162-50006-2p	Poultry net green, 2 pins, 50 m long 120 cm high	1	
	162-50011-2p	Poultry net green, 2 pins, 25 m long 120 cm high	1	
	162-50011-12p	Post, spare, for poultry netting of 120 cm, 2 pins	1	
3	162-50003	Rabbit net green 50 m long 50 cm high	1	
	162-50010	Rabbit net green 25 m long 50 cm high	1	
	162-50003-1	Extra and/or exchange post for green rabbit net	1	

PU=Packing Unit Price incl. VAT



1. CORNER POST

Special post with double spike for creating strong corners with sheep and poultry netting. 19 mm thick.

2. FIXATION PEG

Additional or replacement

3. REPAIR KIT FOR NETTING

For maintenance and repair of netting. With foot connector, top insulators, wire connectors and single wires.

4. WOLF NETS

Very strong wolf net with welded wire crossings on 14 horizontal wires with 3*0,2 cond. Stainless steel. Fitted with 14 black stakes and an 18 cm tenon. 50 m long and 130 cm high. Vertical wires are 15 cm apart, horizontal wires 10, 15 & 25 cm apart.

5. NETS FOR WOLVES AND WILDLIFE

Very strong wolf net with welded wire crossings on 14 horizontal wires with 3*0,2 cond. Stainless steel. Fitted with 14 black stakes and an 18 cm pin. 50 m long and 165 cm high. Vertical wires are 15 cm apart, horizontal wires 10 & 15 cm apart.

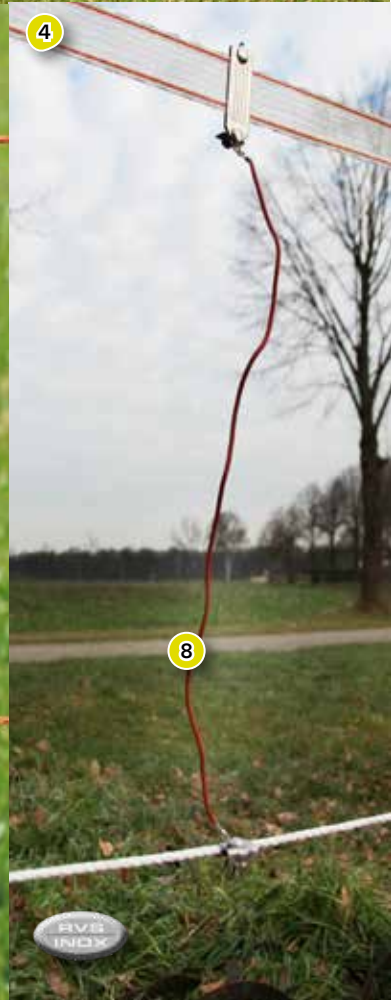
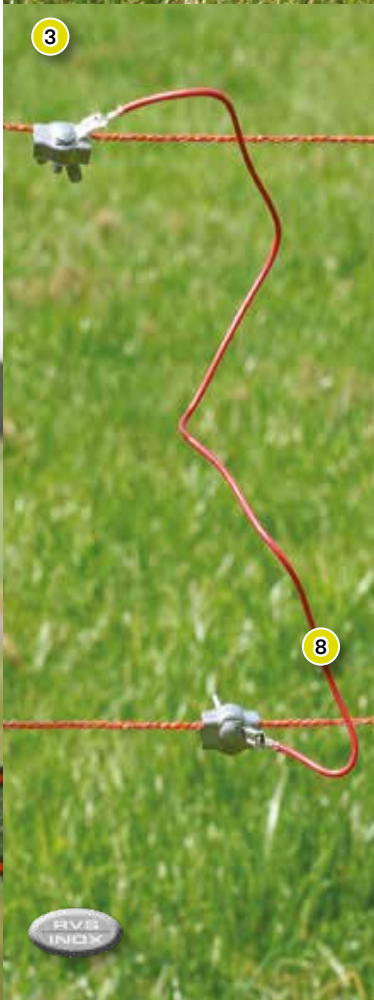
Photo	Art. nr.	Description	PU	€ price/PU
1	162-50004	Corner post for sheep netting, double spike, 19 mm thick	1	
	162-50005	Corner post for poultry netting, double spike, 19 mm thick	1	
2	162-50008	Fixation peg	1	
3	162-50015	Repair kit for netting	1	
4	880 0013-391	Wolf net 130 cm, 50 mtr	1	
5	880 0013-392	Net for wolves and wildlife, 165 cm, 50 mtr	1	

PU=Packing Unit Price incl. VAT

2024

CONNECTION MATERIAL

Connecting



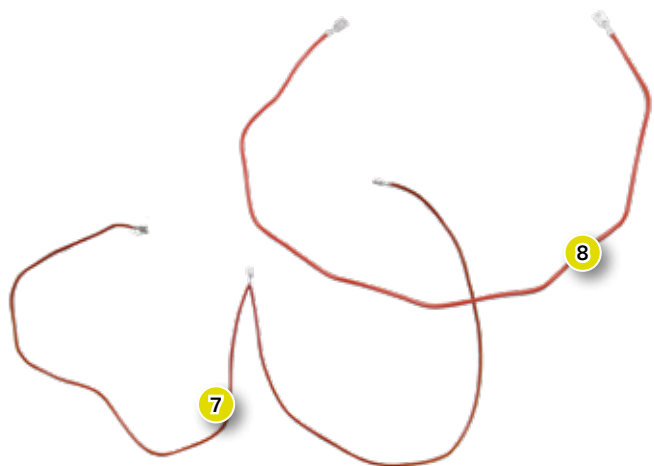
5



CONNECTION MATERIAL

Connecting

6



“Cross connections are very important for an optimal working electric fence. By connecting the conductors, like wire or tape, every 200 mtr with each other, you will optimize the tension in your fence system. Good connections can optimize your fence with up to 2,000 Volt.”

Photo	Art. nr.	Description	PU	€ price/PU
1	162-85603-2	Connection kit, INOX, for tape, with 70 cm long wire	2	
2	162-85604-2	Connection kit, INOX, for rope, with 70 cm long wire	2	
3	162-85605-2	Connection kit, INOX, for wire, with 70 cm long wire	2	
4	162-85601-2	Connection kit, INOX, tape to rope, with 70 cm long wire	2	
5	162-85611-2	Connection kit, zinc plated, for wire and rope with heart shape connectors	2	
6	162-85613-2	Reel cable kit, connecting conductors to main fence	2	
7	162-85614-2	Connection cable, 3-way, HT 60 cm	2	
8	162-85615-2	Connection cable, single, HT 60 cm	2	

PU=Packing Unit Price incl. VAT

2024

CONNECTORS

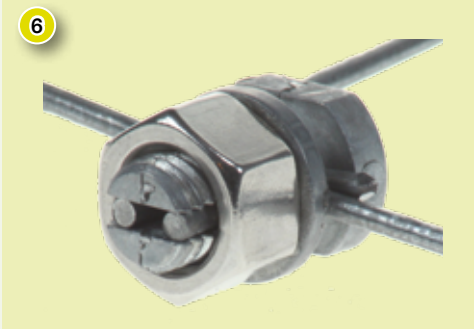
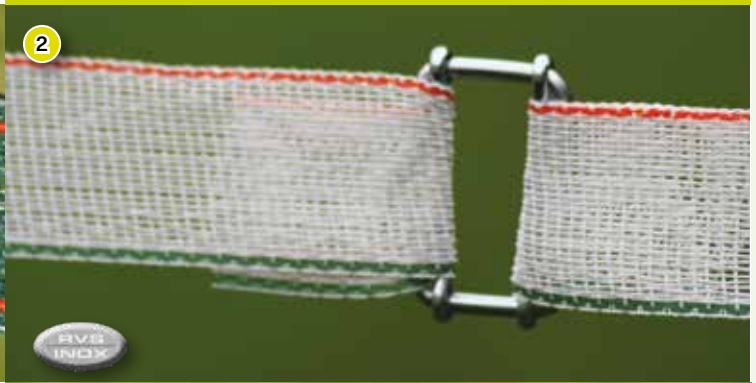


Photo	Art. nr.	Description	PU	€ price/PU
1	162-39096-4	Connectors for wire up to 4 mm, galvanized, with wing nuts	4	
	162-39099-4	Connectors for wire up to 4 mm, INOX, with wing nuts	4	
2	162-39097-4	Connectors for rope up to 8 mm, galvanized, with wing nuts	4	
	162-39098-4	Connectors for rope up to 8 mm, INOX, with wing nuts	4	
	162-39088	Connector for rope up to 10 mm, INOX, with M6 nuts	1	
3	162-39091-4	Connectors, single for wire up to 4 mm, galvanized with wing nuts	4	
	162-39092-4	Connectors, single for rope up to 8 mm, galvanized with wing nuts	4	
4	162-39093-4	Connectors, single for wire up to 4 mm, INOX, with wing nuts and connection tab	4	
	162-39094-4	Connectors, single for rope up to 8 mm, INOX, with wing nuts and connection tab	4	
5	162-39079-4	Connectors, galvanized, single for 8 - 10 mm, per 4	4	
6	162-39089-4	Clamps for connecting iron-aluminium- and steel wire	4	
7	162-39034-4	Wire connectors for thin wire	4	
8	162-85479-3	Wire connector for steel wire 1.8 - 2.5 mm	3	
9	162-85483-4	L-Wire clamp, per 4 pieces	4	
10	162-85484-4	O-Wire clamp, per 4 pieces	4	
11	162-85485-4	W-wire clamp, per 4 pieces	4	

PU=Packing Unit Price incl. VAT



“Prevent sparking and loss of tension at connection points in your fence by using decent connectors and connection kits.”

Photo	Art. nr.	Description	PU	€ price/PU
1	162-80142-4	Connectors, INOX, for tape up to 50 mm	4	
2	162-39095-10	Connectors for tape up to 40 mm, INOX	10	
	162-39095-4	Connectors for tape up to 40 mm, galvanized	4	
3	162-39090-10	Connectors, aluminium, for tape up to 20 mm	10	
	162-39090-4	Connectors, aluminium, for tape up to 20 mm	4	
4	162-80143-2	Gate handle plates, INOX, for connecting tape up to 50 mm to a gate handle	2	
5	162-39400-4	Tape connection plates, separate, 4 pcs, excl. Connection leads	4	

PU=Packing Unit Price incl. VAT

2024

RING INSULATORS

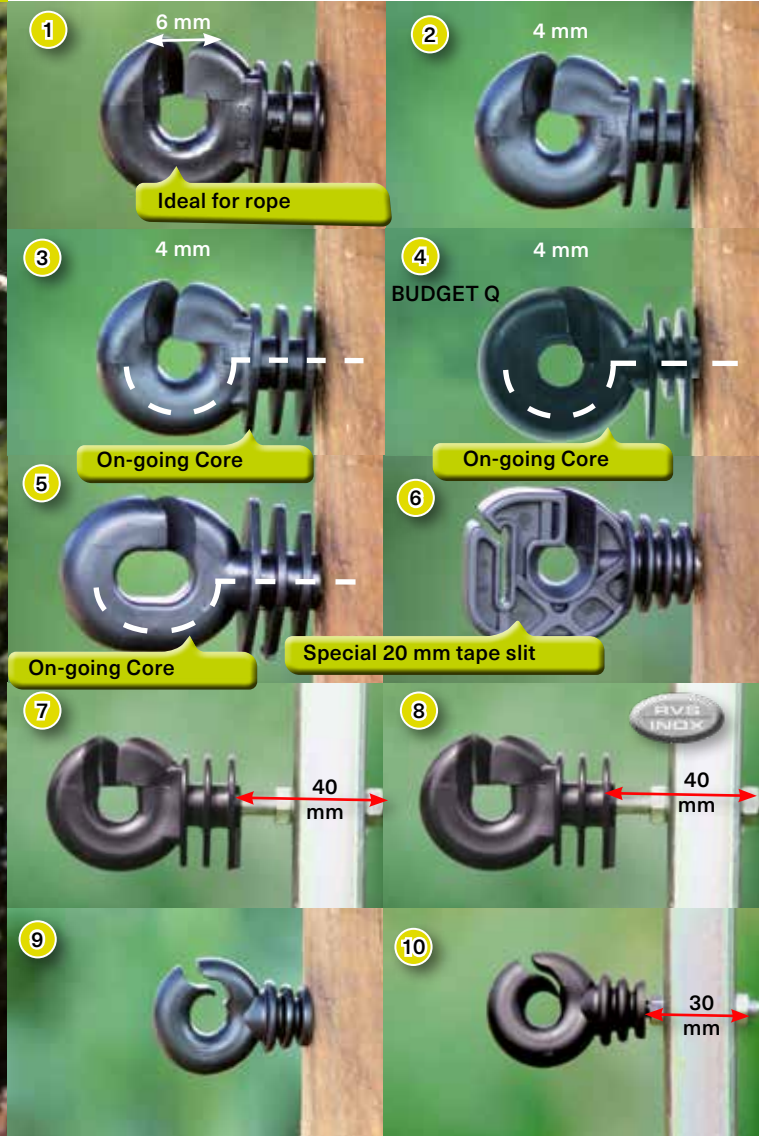
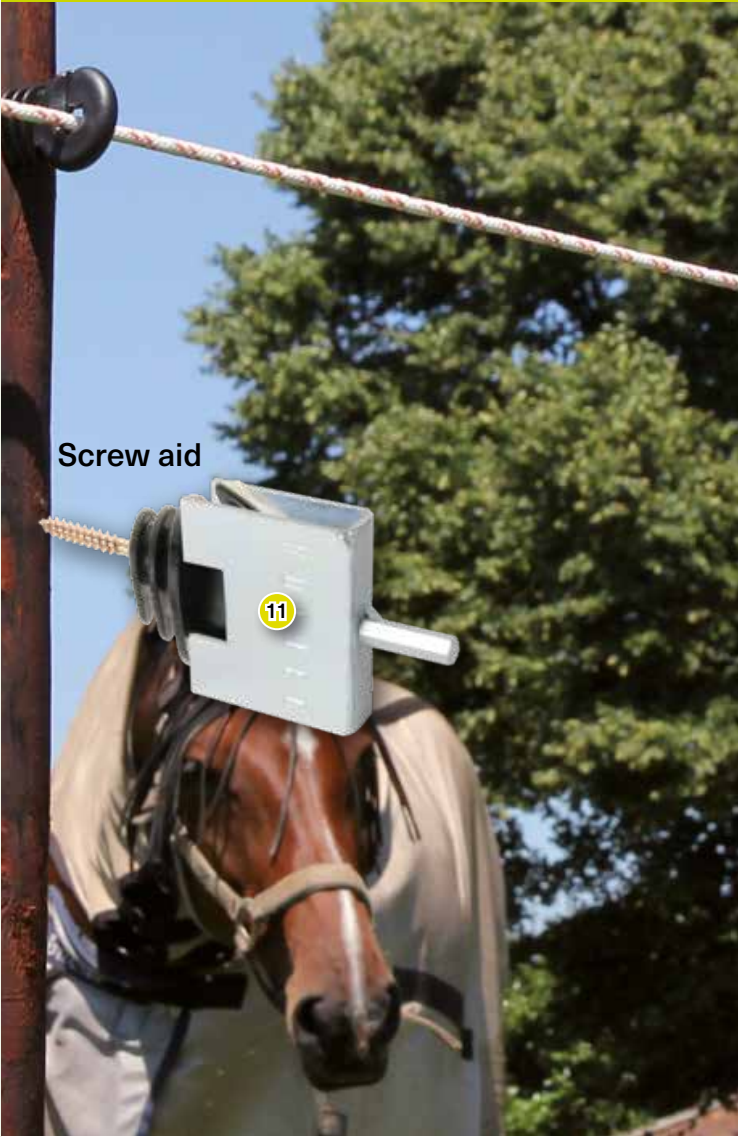


Photo	Art. nr.	Description	PU	€ price/PU
1	162-80170-25	Ring insulators KOLTEC, bag	25	
	162-80170-100	Ring insulators KOLTEC, in bucket	100	
	162-80170-200	Ring insulators KOLTEC, in bucket	200	
2	162-80085-25	Ring insulators, standard	25	
	162-80085-100	Ring insulators standard, bucket	100	
3	162-80086-25	Ring insulators with iron core	25	
	162-80086-100	Ring insulators with iron core, bucket	100	
	162-80086-200	Ring insulators with iron core, bucket	200	
4	162-80174-50	Ring insulators with iron core, for wooden posts 50 pieces	50	
	162-80174-250	Ring insulators with iron core, for wooden posts, bucket 250 pieces	250	
5	162-80096-25	Ring insulators, solid and oval, in bag	25	
	162-80096-100	Ring insulators, solid and oval, in bucket	100	
6	162-80072-25	Ring insulators for rope, can be combined with tape up to 20 mm	25	
7	162-80095-25	Ring insulators with M6 on metal posts, incl. 2 nuts	25	
8	162-80506-25	Ring insulators, INOX, with M6 thread, incl. INOX nuts, for metal posts	25	
9	162-80088-25	Ring insulators, small for wooden constructions	25	
10	162-80099-25	Ring insulators, small with M5 thread, for metal constructions	25	
11	162-85480	Screw aid KOLTEC, metal, for KOLTEC tape and ring insulators	1	

PU=Packing Unit Price incl. VAT

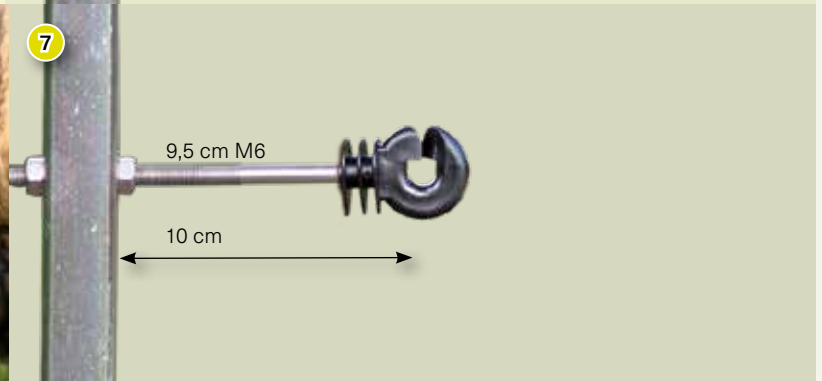
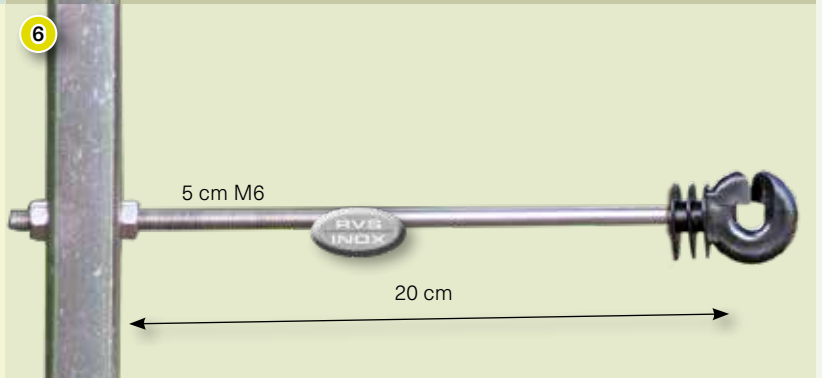
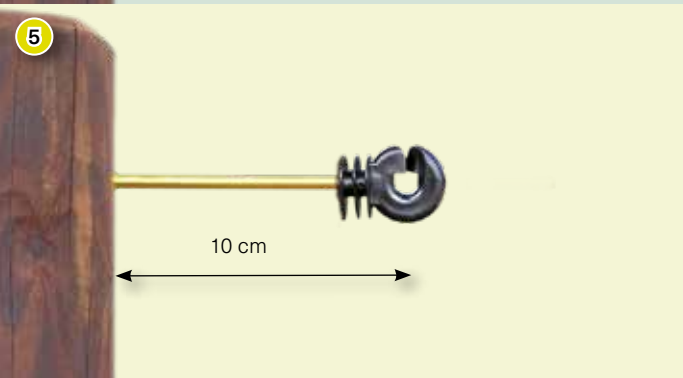
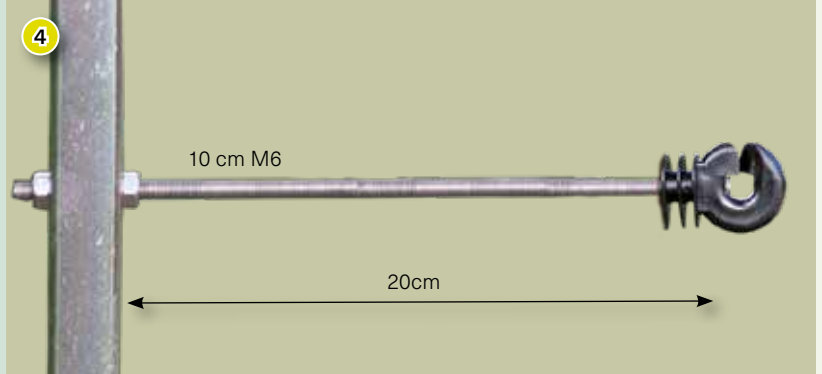
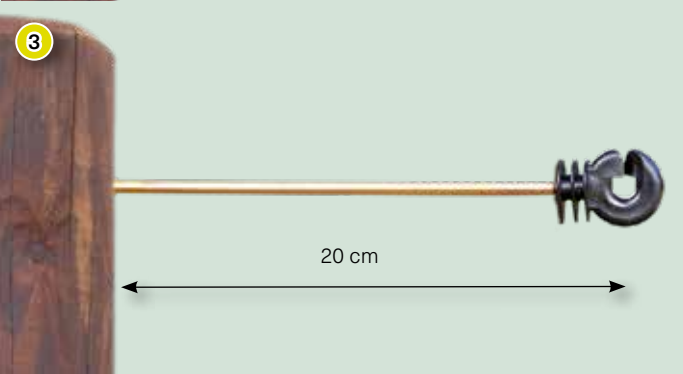
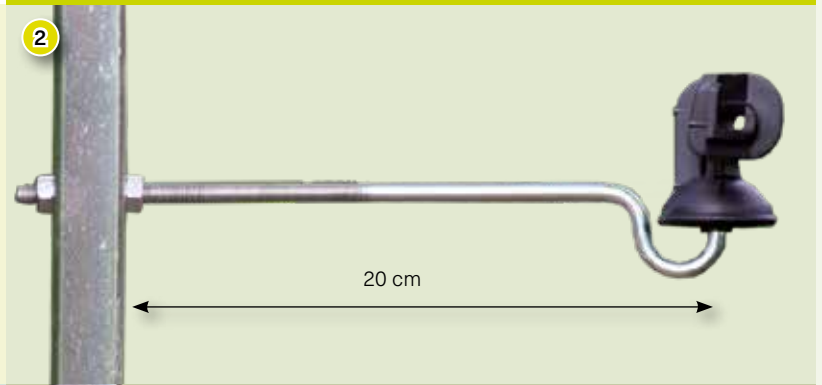
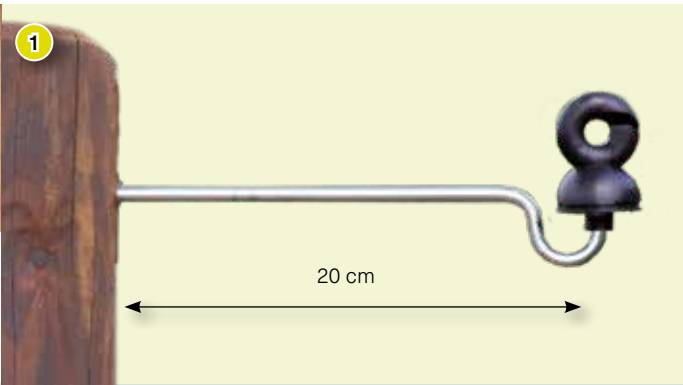


Photo	Art. nr.	Description	PU	€ price/PU
1	162-80087-10	Offset ring insulators 20 cm for wire on wooden posts	10	
2	162-80098-10	Offset insulators 20 cm of which 15 cm M6, for rope up to 8 mm on metal posts	10	
3	162-80503-10	Offset ring insulators, 20 cm for wire/rope on wooden posts	10	
4	162-80093-10	Offset ring insulators 20 cm for wire with M6 on metal posts	10	
5	162-80505-20	Ring insulators special, half long 10 cm, for wooden posts	20	
	162-80505-100	Ring insulators special, half long 10 cm, for wooden posts	100	
6	162-80507-10	Offset ring insulators, INOX, 20 cm with M6 thread for wire/rope on metal posts	10	
7	162-80508-10	Ring insulator, half long/10 cm with M6	10	

PU=Packing Unit Price incl. VAT

INSULATORS



Photo	Art. nr.	Description	PU	€ price/PU
1	162-80185-100	Hook-ring insulators, short, for wooden posts, in bucket	100	
	162-80185-25	Hook-ring insulators, short, for wooden posts	25	
2	162-85472	Screw aid KOLTEC, metal aid for KOLTEC hook-ring insulators	1	
3	162-80081-25	W-insulators, black, strong insulators for wire and rope	25	
	162-80081-100	W-insulators, black, in bucket, strong insulators for wire and rope	100	
4	162-80166-10	Pin lock insulator, heavy duty 10 pieces	10	
5	162-80043-25	Saddle/nail insulators (small) with nail	25	
6	162-80073-25	Nail insulators KOLTEC	25	
7	162-80180-25	W-insulators, white, bag with 4 pcs strong insulators for wire and rope	25	
	162-80180-100	W-insulators, white, in bucket, strong insulators for wire and rope	100	
8	131-15182-200	Woodscrew, 4,5* 35 mm PZ-2 panh., galv.	200	
9	131-15183-200	Woodscrew, 3,5 * 25 mm PZ-2 panh., galv.	200	

PU=Packing Unit Price incl. VAT



Insulators for stripgrazing posts

Photo	Art. nr.	Description	PU	€ price/PU
1	162-80061-25	Ring insulators, klemmfix for oval spring steel posts	25	
2	162-80048-25	Insulators for oval posts for tape up to 20 mm	25	
3	162-80015	Side pigtail insulator, for oval spring steel posts	1	
4	162-80210-25	Click insulators, black, for wire and tape up to 20 mm on round \varnothing 10 mm posts	25	
5	162-80065-10	Post insulators for wire/rope for posts up to \varnothing 15 mm	10	
	162-80065-100	Post insulators for wire/rope for posts up to \varnothing 15 mm	100	
6	162-80011-10	Post insulators for \varnothing 20 mm posts for wire and rope up to 6 mm	10	
7	162-80066-10	Post insulators for tape up to 40 mm for round post up to \varnothing 15 mm	10	
8	162-80038-4	Split insulators for angle iron post	4	
9	162-80062-25	Click insulators, green, for posts of \varnothing 8 mm	25	
	162-80064-25	Click insulators, green, for posts of \varnothing 7 mm	25	
	162-80063-25	Click insulators, black, for posts of \varnothing 6 mm	25	
	162-80063-4	Click insulators, black, for posts of \varnothing 6 mm	4	
	162-80009-25	Click insulators, red, for \varnothing 12 mm posts	25	
	162-80010-25	Click insulators, yellow, for \varnothing 10 mm posts	25	

PU=Packing Unit Price incl. VAT

START INSULATORS



EGG INSULATOR

Egg insulator without or with 1 or 2 hooks and screw eye. Designed for end posts and corners. The egg-shape insulator is extremely solid and especially suitable for aluminum and (high tensile) steel wire. Ideal for fast mounting and a professional finishing look. Hook and screw eye are zinc plated, but also available in INOX. In black or white.



Several handy combinations are possible with various wire tensioners and tension springs. **See page 103.**



Photo	Art. nr.	Description	PU	€ price/PU
1	162-80077-4	Egg-insulators, black, without hooks in package	4	
	162-80077-100	Egg-insulators, black, bucket with 100	100	
	162-80076-4	Egg-insulators, white, bags of 4	4	
	162-80076-100	Egg-insulators, white, bucket with 100	100	
2	162-70500	Egg-insulator, black, with 1 hook, single	1	
	162-70600	Egg-insulator, white, with 1 hook, single	1	
3	162-70504	Egg-insulator, black, with 1 INOX hook, single	1	
	162-70604	Egg-insulator, white, with 1 INOX hook, single	1	
4	162-70500-4	Egg-insulators, black, with 1 hook and screw eye	4	
	162-70500-50	Egg-insulators, black, with 1 hook and screw eye (50 pc)	50	
	162-70600-4	Egg-insulators, white, with 1 hook and screw eye	4	
	162-70600-50	Egg-insulators, white, with 1 hook and screw eye (50 pc)	50	
5	162-70504-4	Egg-insulators, black, with 1 INOX hook and INOX screw eye	4	
	162-70504-50	Egg-insulators, black, with 1 INOX hook and INOX screw eye	50	
	162-70604-4	Egg-insulators, white, with 1 INOX hook and INOX screw eye	4	
	162-70604-50	Egg-insulators, white, with 1 inox hook and inox screw eye (50 pc)	50	
6	162-70501	Egg-insulator, black, with two hooks, single	1	
	162-70601	Egg-insulator, white, with two hooks, single	1	
7	162-70506	Egg-insulator, black, with two INOX hooks, single	1	
	162-70606	Egg-insulator, white, with two INOX hooks, single	1	
8	136-60261	Screw eye galvanized for wooden posts	1	
9	136-60262	Screw eye, INOX for wooden posts	1	
10	136-60264	Screw eye, INOX, for metal posts, 80 mm M8	1	

PU=Packing Unit Price incl. VAT



Photo	Art. nr.	Description	PU	€ price/PU
1	162-80070-10	Corner insulators of porcelain, for wire and rope	10	
2	162-80071-25	Corner insulators, white plastic, for wire and rope	25	
	162-80071-4	Corner insulators, white plastic, for wire and rope	4	
3	162-80119-25	Corner insulators, black plastic, for wire and rope	25	
	162-80119-4	Corner insulators, black plastic, for wire and rope	4	
4	162-80075-4	Corner roll insulators for wire and rope for wooden posts	4	
	162-80187-4	Corner roll insulators for rope and wire for wooden posts, INOX	4	
5	162-80012-4	Corner roll insulators for rope and wire for metal posts with M6 thread incl. 2 nuts	4	
6	162-80171-3	Corner roller, synthetic for wire	3	
7	162-80152-8	Insulation tubes, synthetic with iron inlay, 60 cm long, for max. 3 mm wire	8	

PU=Packing Unit Price incl. VAT

2024

TAPE INSULATORS



High insulation due to the extra insulation ribs

Closing clip prevents uncontrolled opening for example by squalls

The construction prevents the movement of the tape in the insulator, it will not be damaged and lasts much longer

Wood thread with drill capacities to screw the insulator easily into the hardest wood

The shaft is made in a way that it can't turn in the insulator itself.

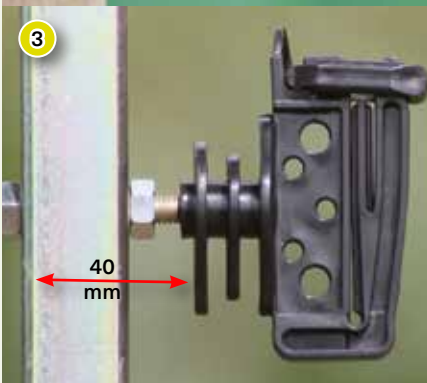


Photo	Art. nr.	Description	PU	€ price/PU
1	162-80400-25	Tape insulators KOLTEC, short for wooden posts per bag	25	
	162-80400-100	Tape insulators KOLTEC, short for wooden posts in bucket	100	
2	162-80401-10	Offset tape insulator KOLTEC, 22 cm, for wooden posts	10	
3	162-80402-25	Tape insulators KOLTEC, short with complete M6 thread shaft, for metal posts	25	
4	162-80403-10	Offset tape insulator KOLTEC, 22 cm with 15 cm M6 thread incl. nuts for metal posts	10	
5	162-85480	Screw aid KOLTEC, metal, for KOLTEC tape and ring insulators	1	

PU=Packing Unit Price incl. VAT

INBETWEEN INSULATORS



+ = Incl. / Inkl.

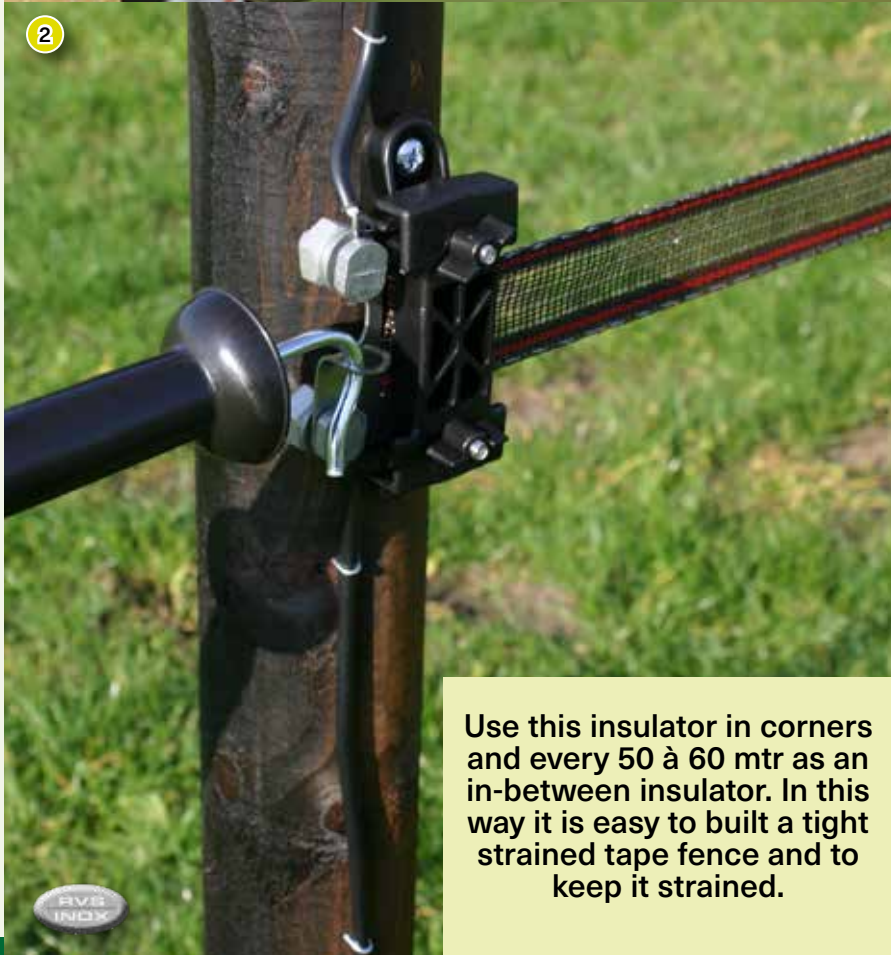
Photo	Art. nr.	Description	PU	€ price/PU
1	162-80100-25	Insulators KOLTEC for tape up to 40 mm	25	
	162-80100-100	Insulators KOLTEC for tape up to 40 mm, in bucket	100	
2	162-80060-25	Insulators sturdy and large for tape up to 40 mm and rope up to 6 mm	25	
	162-80060-100	Insulators sturdy and large for tape up to 40 mm and rope up to 6 mm	100	
3	162-80072-25	Ring insulators for rope, can be combined with tape up to 20 mm	25	
4	162-80173-3	Tape strainer, synthetic	3	
5	162-80068-4	Insulators for tape, solid corner or in between insulators	4	
6	162-80046-4	In-between/corner insulators with rubber inlay to fixate tape	4	
	162-80046-50	In-between/corner insulators with rubber inlay to fixate tape	50	
7	131-15181-200	Woodscrew, 5,0 * 45 mm PZ-2 con, galv.	200	
8	131-15182-200	Woodscrew, 4,5* 35 mm PZ-2 panh., galv.	200	
9	131-15183-200	Woodscrew, 3,5 * 25 mm PZ-2 panh., galv.	200	
10	162-80404-25	Inbetween insulator for tape, bag with 25 pcs	25	
	162-80404-100	Inbetween insulator for tape, bucket with 100 pcs	100	

PU=Packing Unit Price incl. VAT

CORNER INSULATORS



- Good guidance
- Strong
- Stainless steel
- Good conductivity surface
- Variable way of straining tape
- Long term durable use
- Sturdy gate handle anchor
- Package incl. 3 Screws / insulator



Robust starter / corner insulator for solid start and corner joints to tension the tape. The teeth on the inside ensure that the tape is tensile in the insulator.

With the help of the stainless steel / INOX insert plate you can easily place a gate handle at a passage.

You can also use the stainless steel / INOX insert plate to make very simple intermediate connections for the creation of multiple pastures. The insert plate provides an optimal contact surface for a good connection of all current conductors in the tape.

Use this insulator in corners and every 50 à 60 mtr as an in-between insulator. In this way it is easy to built a tight strained tape fence and to keep it strained.

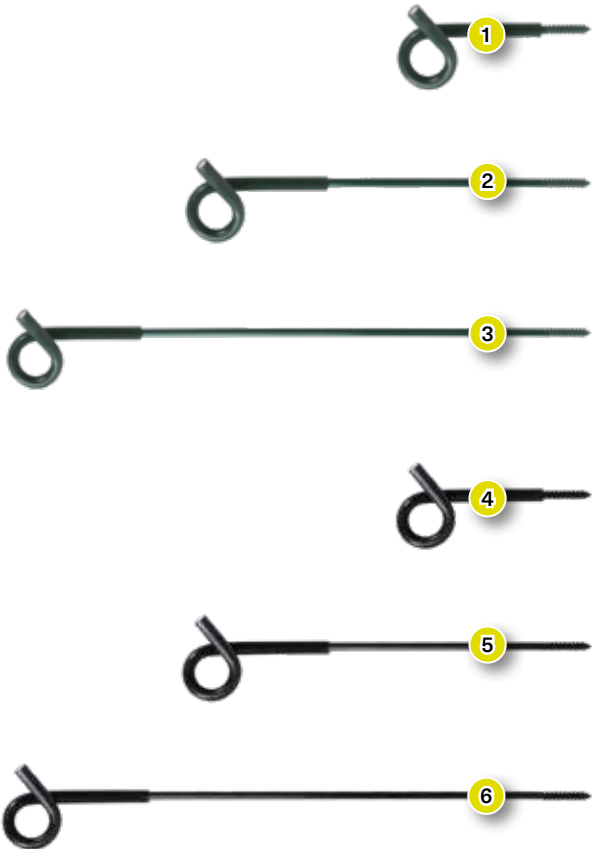
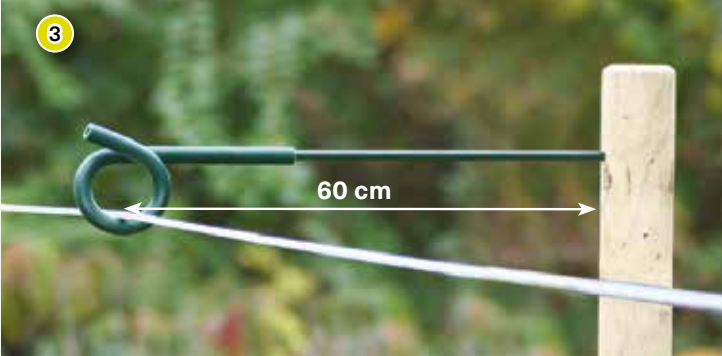
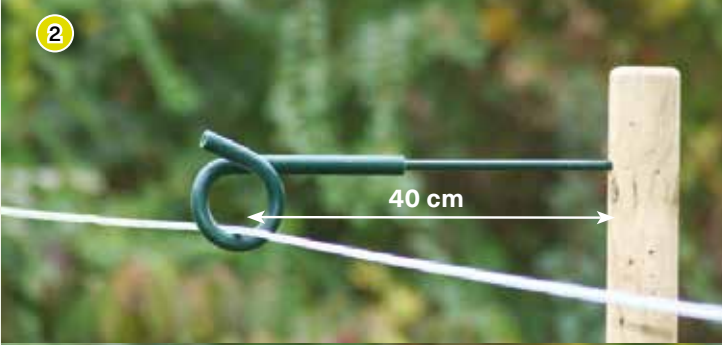


Photo	Art. nr.	Description	PU	€ price/PU
1	162-80068-4	Insulators for tape, solid corner or in between insulators	4	
2	162-80069-2	Strain/corner insulators, very strong with INOX plate	2	
3	136-80046	Connection and anchor plate for 162-80068 & 162-80046 tape insulator	1	
	162-80069-4	Connection and anchor plate for 162-80068 & 162-80046 tape insulator (4 pcs)	4	
4	162-80046-4	In-between/corner insulators with rubber inlay to fixate tape	4	
	162-80046-50	In-between/corner insulators with rubber inlay to fixate tape	50	
5	162-80120-4	Corner/start insulators for tape, with metal brackets for max. contact	4	
6	162-80172-4	Corner insulator for tape, with strain handles, 4 pieces	4	
7	162-80173-3	Tape strainer, synthetic	3	
8	162-80177-2	Double tape gate handle anchor	2	
9	162-80178-4	Gate handle anchors buckles for 162-80172-4	4	
10	131-15181-200	Woodscrew, 5,0 * 45 mm PZ-2 con, galv.	200	

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PIGTAIL INSULATORS



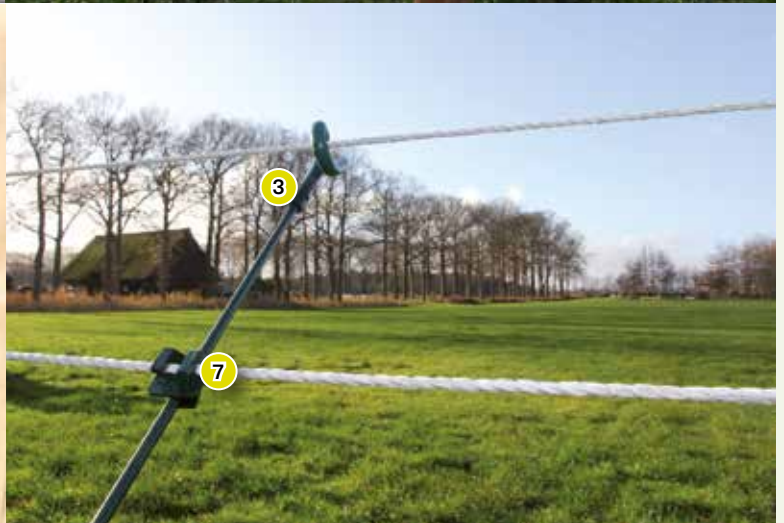
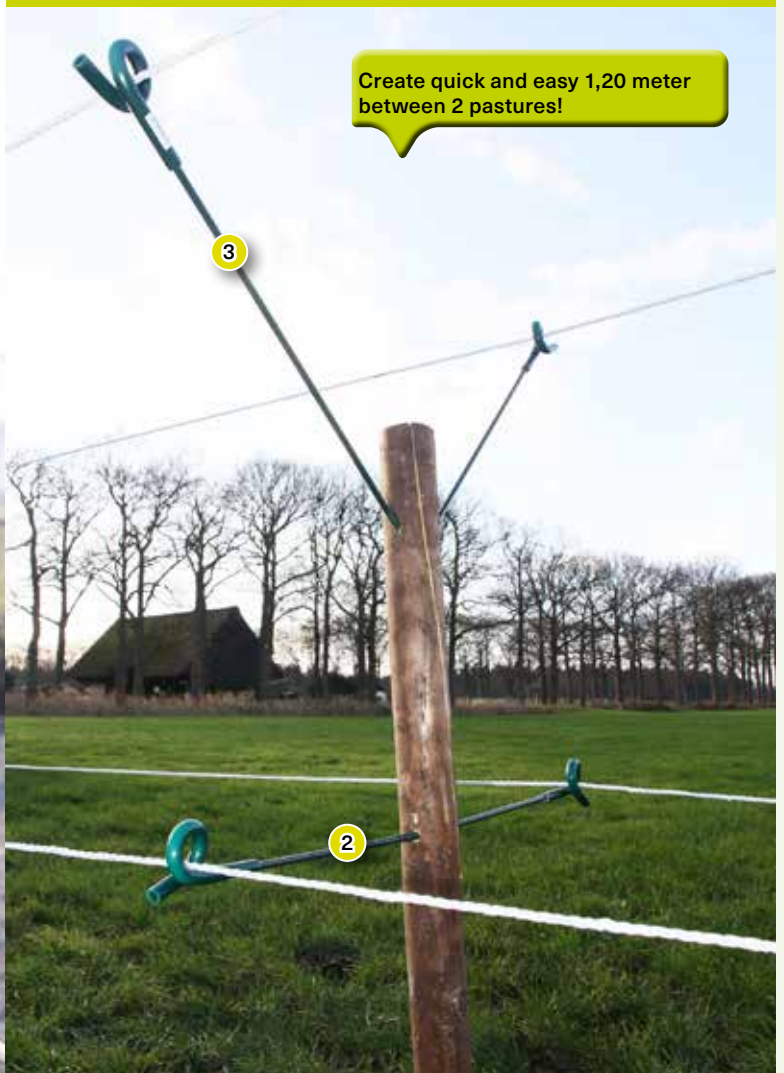
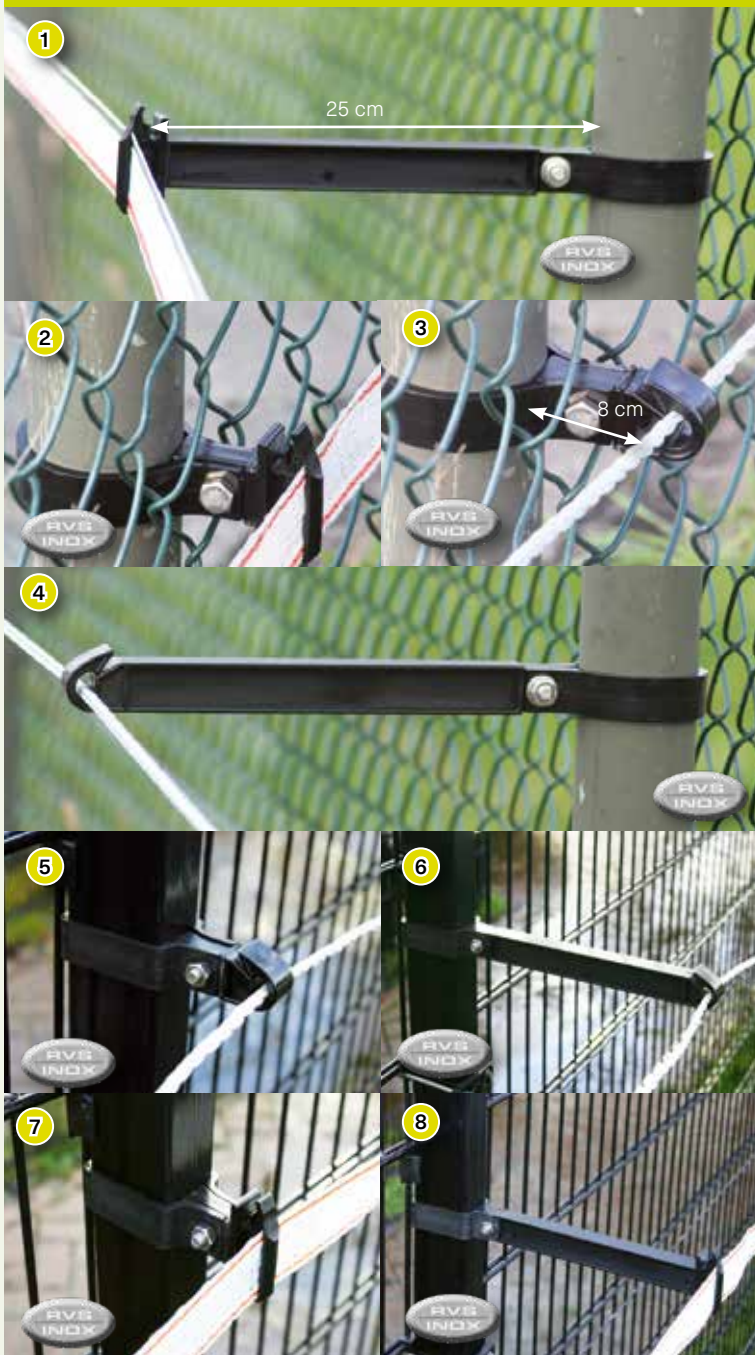


Photo	Art. nr.	Description	PU	€ price/PU
1	162-80123	Offset pigtail insulator, green, 20 cm 8 mm, for wooden posts	1	
2	162-80113	Offset pigtail insulator, green, 40 cm 8 mm, for wooden posts	1	
3	162-80126	Offset pigtail insulator, green, 60 cm 8 mm, for wooden posts	1	
4	162-80123-zw	Offset pigtail insulator, black, 20 cm 8 mm, for wooden posts	1	
5	162-80113-zw	Offset pigtail insulator, black, 40 cm 8 mm, for wooden posts	1	
6	162-80126-zw	Offset pigtail insulator, black, 60 cm 8 mm, for wooden posts	1	
7	162-80062-25	Click insulators, green, for posts of ø 8 mm	25	
	162-80115-25	Click insulators, black, for posts of ø 8 mm	25	

PU=Packing Unit Price incl. VAT

GAUZE & BEKAERT FENCES



PLASTIC INSULATORS

Plastic insulators which take care that animals don't spoil your nice gauze fence. These insulators are suitable for e.g. Bekaert fences, with posts with a diameter of 48 mm or 60 mm. There are also insulators for posts with a dimension of 40*60 mm. The short variety has a distance to the post of 8 cm, the offset insulators 25 cm.



Photo	Art. nr.	Description	PU	€ price/PU
1	162-80055	Offset insulator 25 cm for tape on round posts Ø 48 mm	1	
	162-80056	Offset insulator 25 cm for tape on round posts Ø 60 mm	1	
2	162-80132	Insulator, synthetic for tape, for round ø 48 mm posts	1	
	162-80133	Insulator, synthetic for tape, for round ø 60 mm posts	1	
3	162-80130	Insulator, synthetic for wire/rope, for round ø 48 mm posts	1	
	162-80131	Insulator, synthetic for wire/rope, for round ø 60 mm posts	1	
4	162-80089	Offset insulator 25 cm for rope/wire, for round posts of ø 48 mm	1	
	162-80090	Offset insulator 25cm for rope/wire on round posts Ø 60 mm	1	
5	162-80134	Insulator, synthetic for wire/rope, for posts of 60*40 mm	1	
6	162-80135	Offset insulator, synthetic for wire/rope, for posts of 60*40 mm	1	
7	162-80136	Insulator, synthetic for tape, for posts of 60*40 mm	1	
8	162-80137	Offset insulator, synthetic for tape, for posts of 60*40 mm	1	
9	162-80050	Offset insulator 25cm for rope/wire, with tieraps	1	
10	162-80161	Fencerail clamp top insulator for 6 mm	1	
	162-80162	Fencerail clamp top insulator for 8 mm	1	

PU=Packing Unit Price incl. VAT

GAUZE & BEKAERT FENCES



“Several combinations are possible for different applications”



Photo	Art. nr.	Description	PU	€ price/PU
1	162-80067	Fencerail clamp insulator	1	
2	162-80018	Offset insulator, plastic, 30 cm, for wire and rope, for gauze fences	1	
3	162-80097	Bracket, INOX, for post 30-60 mm, with M6 and M8 thread	1	
4	162-80138-4	Post terminals, synthetic with INOX bracket and nut, for 40*40 mm posts	4	
	162-80139-4	Post terminals, synthetic with INOX bracket and nut, for 60*60 mm posts	4	
5	162-80506-25	Ring insulators, INOX, with M6 thread, incl. INOX nuts, for metal posts	25	
6	162-80507-10	Offset ring insulators, INOX, 20 cm with M6 thread for wire/rope on metal posts	10	
	162-80508-10	Ring insulator, half long/10 cm with M6, incl. INOX nuts, for metal posts	10	
7	162-80012-4	Corner roll insulators for rope and wire for metal posts with M6 thread incl. 2 nuts	4	
8	162-70510-4	Egg-insulators with INOX hook and screw eye M8 (80 mm)	4	
9	162-79084-4	Gate handle anchors KOLTEC, 3-way, INOX, for metal posts M6	4	
10	136-60264	Screw eye, INOX, for metal posts, 80 mm M8	1	

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INSULATOR BRACKETS

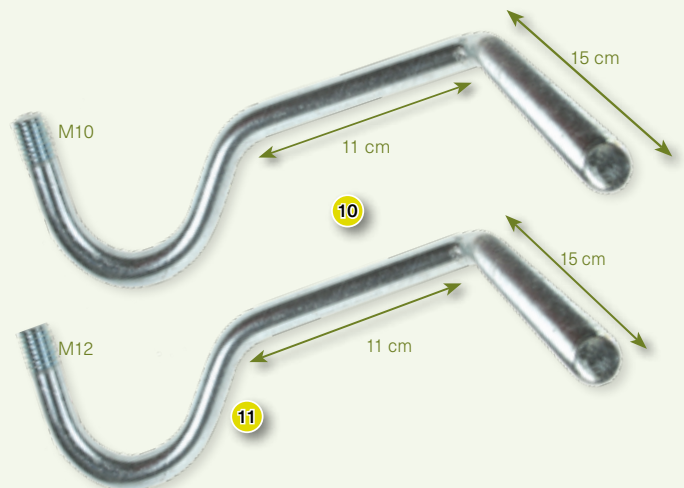
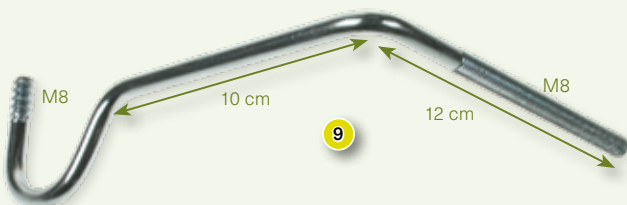
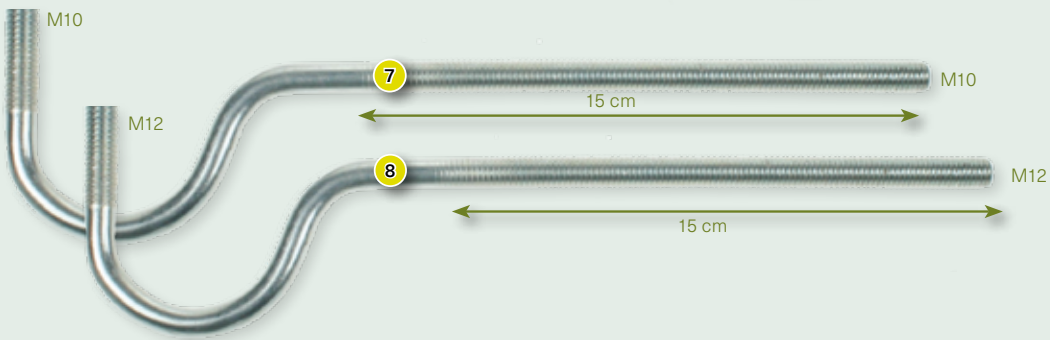
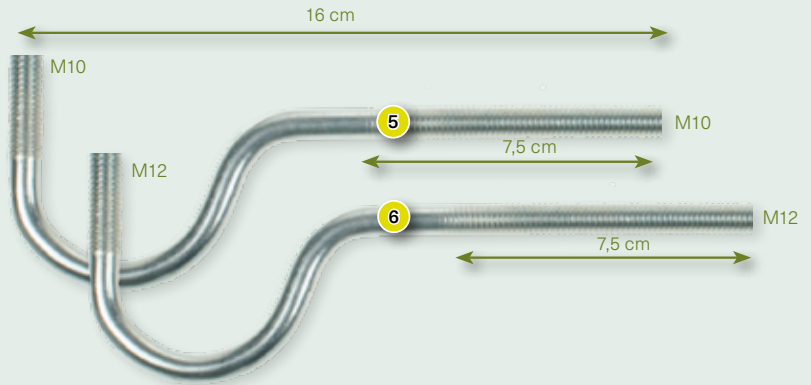
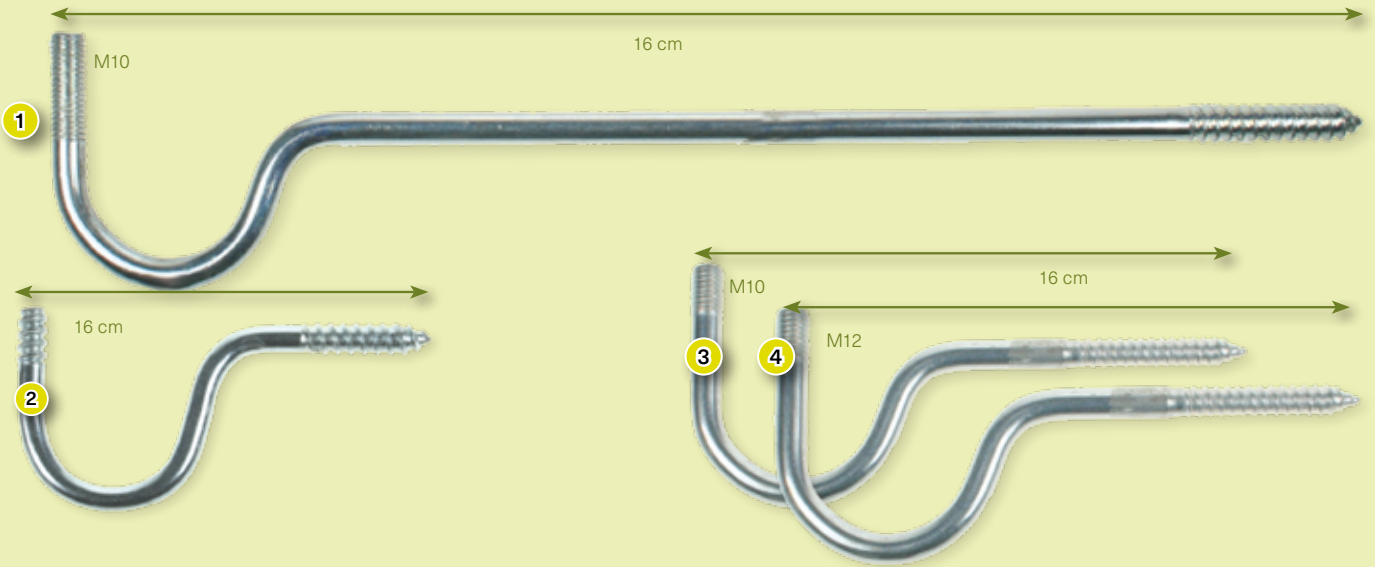




Photo	Art. nr.	Description	PU	€ price/PU
1	162-65002-50	Insulator brackets (swan neck long 35,5 cm) with M10 thread, for wooden posts	50	
2	162-65013-25	Insulator brackets (swan neck short) 8 mm, for wooden posts	25	
3	162-65001-50	Insulator brackets (swan neck short) with M10 thread, for wooden posts	50	
4	162-65003-50	Insulator brackets (swan neck short) with M12 thread, for wooden posts	50	
5	162-65025-50	Insulator brackets (swan neck short) with M10 thread incl. nuts, for concrete posts	50	
6	162-65026-50	Insulator brackets (swan neck short) with M12 thread incl. nuts, for concrete posts	50	
7	162-65004-50	Insulator brackets (swan neck long 25cm) with M10 thread incl. nuts, for concrete posts	50	
8	162-65006-50	Insulator brackets (swan neck long 25cm) with M12 thread incl. nuts, for concrete posts	50	
9	162-65014-25	Insulator brackets (swan neck hooked) 8 mm with M8 thread + nuts, for concrete posts	25	
10	162-65005-50	Insulator brackets (swan neck hooked), with M10 thread incl. nuts, for concrete posts	50	
11	162-65018-50	Insulator brackets (swan neck hooked), with M12 thread incl. nuts, for concrete posts	50	
12	162-65015	Screw eye, Ø 12 mm 278 mm long with wood thread	1	
13	162-65016	Screw eye, Ø 12 mm 168 mm long with wood thread	1	
14	162-65008	Weld rod with M12 thread	1	
15	162-65017	Thread bar M12, 25 cm incl. 2 nuts	1	
16	131-14091	Ring nut, M12	1	
17	162-65000-50	Insulator brackets (straight) with M10 thread, for wooden posts	50	

PU=Packing Unit Price incl. VAT

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Photo	Art. nr.	Description	PU	€ price/PU
1	162-79700-25	W-skirt insulator M8/M10/M12	25	
2	162-80035-25	W-skirt insulators, large, black, incl. short 8 mm bracket for wooden posts	25	
3	162-79800-25	Tape insulator for brachets of/with 8mm/M10/M12 thread	25	
4	162-79900-25	Tape insulator for brachets of/with 8mm/M10/M12 thread, with 8mm brackets	25	
5	162-80040-25	Screw cap insulators, black screw cap, for M8, M10 and M12 thread	25	
6	162-80042-25	Screw cap insulators, red screw cap, for M8, M10 and M12 thread	25	
7	162-80044-25	Screw cap insulators, yellow screw cap, for M8, M10 and M12 thread	25	
8	162-80039-25	Screw cap insulators, large, black, incl. short 8 mm bracket for wooden posts	25	
9	162-80054-25	Dump insulators KOLTEC, yellow+black cap, for M10 and M12 thread	25	
10	162-80054-G100	Dump insulators KOLTEC, complete yellow, for M10 and M12 thread	100	
11	162-80054-Z100	Dump insulators KOLTEC, complete black, for M10 and M12 thread	100	
12	162-65022-25	Caps, separate, black, for KOLTEC Dump insulator end large screw cap insulator	25	
13	162-65023-25	Caps, separate, yellow, for KOLTEC Dump insulator end large screw cap insulator	25	
14	162-65024-25	Caps, separate, red, for KOLTEC Dump insulator end large screw cap insulator	25	

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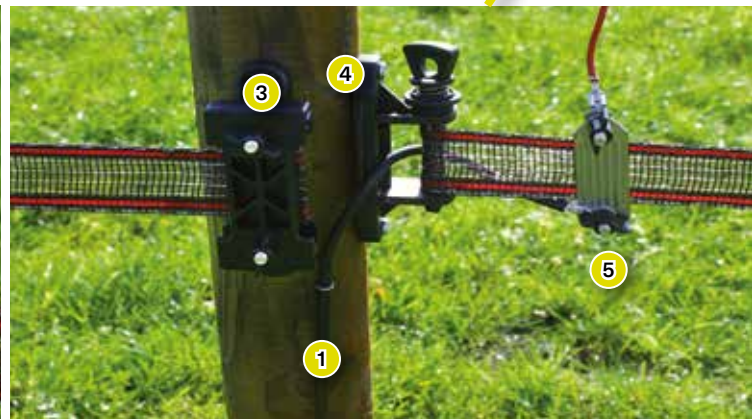
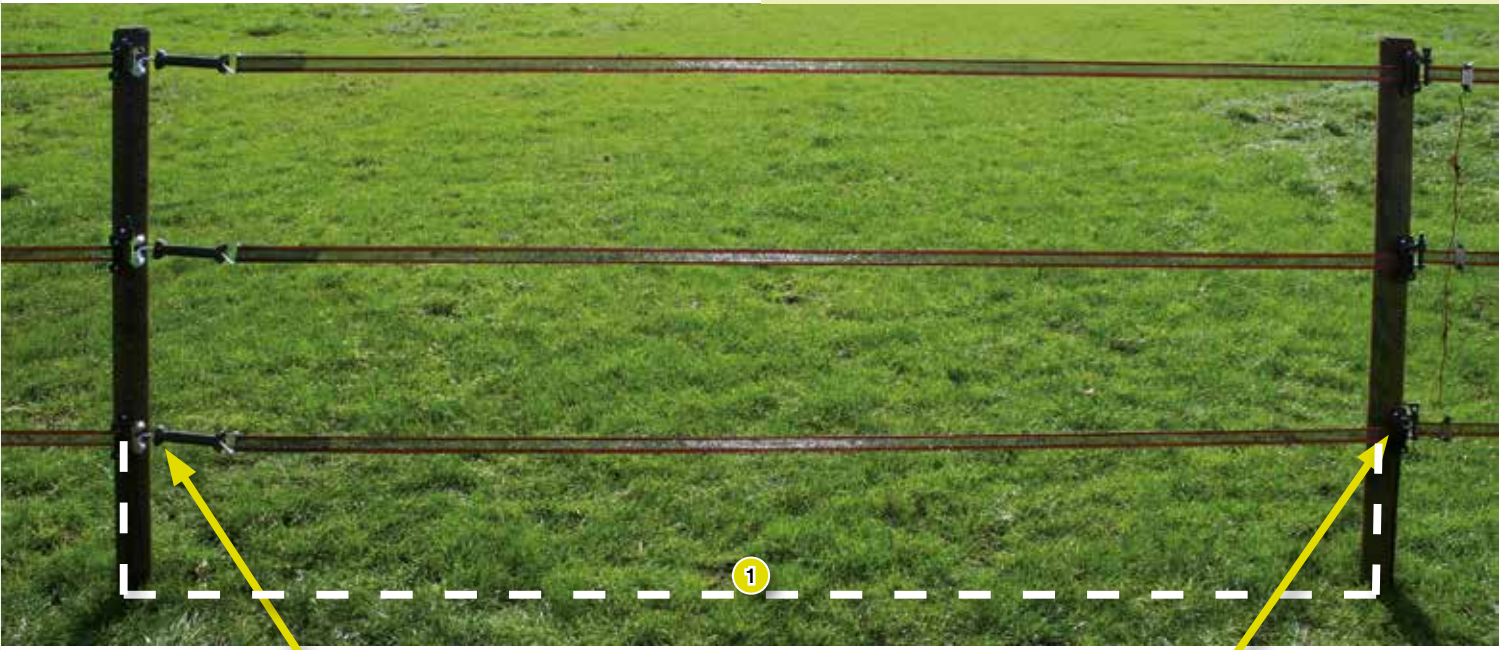
GATE SETUPS

Install your gate so that there is only tension when it is closed by the gate handle anchor, which is under tension) en is tension free when it is opened.

Advantages of this way are:

- No loss of tension on your fence by on the ground lying gate handles.
- When passing the gate you have no shock effects by on the ground lying gate handles.
- No shock effect when your animal while passing stands on the current conductor of your gate.

ADVICE GATE CONSTRUCTION FOR TAPE



If you build your gate with springs, tape or rope, make sure that these get no tension anymore after opening the gate. Otherwise they lay on the ground sparking and short cut your electric fence.

To build this in a good way connect only the gate handle side of the gate with the rest of your application. Due to the underground connection, the gate is not a part of the circuit and it is always safe to open the gate without cutting off the rest of the circuit

Photo	Art. nr.	Description	PU	€ price/PU
1	133-36122-10	High tension cable, coil with 10 m, flexible 7 strand inox core	10	
2	162-79010-2	Gate handle, black with fixed tape clamp, per 2 pieces	1	
3	162-80068-4	Insulators for tape, solid corner or in between insulators	4	
4	162-80173-3	Tape strainer, synthetic	2	
5	162-85603-2	Connection kit, INOX, for tape, with 70 cm long wire	2	
	162-85612-2	Connection kit for tape/HT-cable, with ring and connection eye	2	
6	162-39089-4	Clamps for connecting iron-aluminium- and steel wire	2	
7	136-80046	Connection and anchor plate for 162-80068 & 162-80046 tape insulator	1	
	162-80069-4	Connection and anchor plate for 162-80068 & 162-80046 tape insulator (4 pcs)	4	



"If both sides of the gate are connected with each other, the circuit in your application is always complete. The electric fence circuit will not be cut off by opening the gate, when this gate is part of the circuit."

ADVICE GATE CONSTRUCTION FOR ROPE

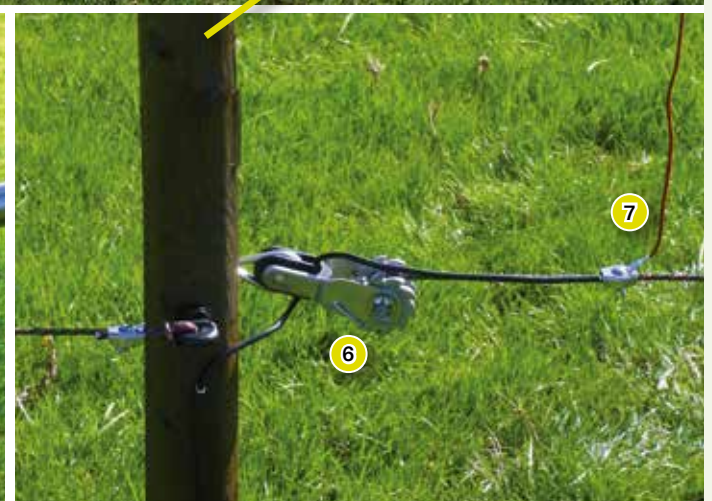
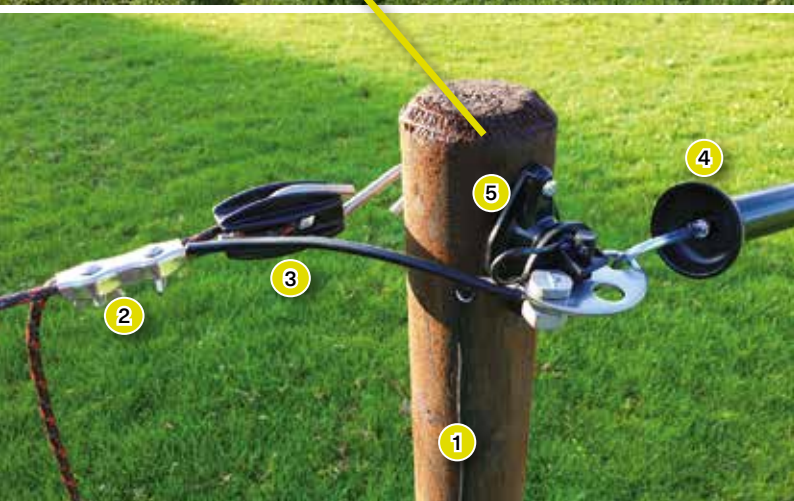


Photo	Art. nr.	Description	PU	€ price/PU
1	133-36122-10	High tension cable, coil with 10 m, flexible 7 strand inox core	10	
2	162-39098-4	Connectors for rope up to 8 mm, INOX, with wing nuts	4	
3	162-70504-4	Egg-insulators with 1 INOX hook and INOX screw eye	4	
4	162-80002	Gate kit for rope, INOX, variable wideness	1	
5	162-80167-4	Pin lock insulator, with gate handle anchor and connection nut	4	
6	162-80156-2	Straining set, INOX, for rope, with hook and screw eyes	2	
7	162-85604-2	Connection kit, INOX, for rope, with 70 cm long wire	2	

PU=Packing Unit Price incl. VAT

GATE HANDLES



1-12 & 14. KOLTEC GATE HANDLE

The KOLTEC gate handle is made of a special plastic-alloy. No cracks will occur, therefore a good insulation is ensured, even after years of use. You don't have to be afraid getting a shock of your own gate handle. Extreme UV-radiation resistant. With a strong spring for a tight gate closure. Strong construction for long term durable use. This gate handle is often copied, but never with this quality level. Be aware that you buy the real Koltec gate handle. Our logo on the product will guarantee this. Available in black, red and yellow.

1, 7, 9 & 12 KOLTEC INOX GATE HANDLE

The KOLTEC-gate handle is also available in INOX, in the colours brown, black, white and red.

13. GATE HANDLE

Basic gate handle

14 - 16 GATE HANDLE WITH FIXED TAPE CLAMP

Robust gate handle with fixed ribbon clamp for a solid, stable tape connection.





- **Special plastic-alloy.**
- **No cracks will occur, therefore a good insulation is ensured, even after years of use.**
- **UV-radiation resistant.**
- **Strong spring for a tight gate closure.**
- **Strong construction for long term durable use.**

**Be aware that you buy the real
KOLTEC gate handle.
Our logo on the product will
guarantee this.**

Photo	Art. nr.	Description	PU	€ price/PU
1	162-79037	Gate handle, KOLTEC, brown INOX	1	
2	162-79036	Gate handle, KOLTEC, brown	1	
3	162-79033	Gate handle, KOLTEC, neon yellow	1	
	162-79033-4	Gate handles, KOLTEC, neon yellow, package of 4	4	
4	162-79034	Gate handle, KOLTEC, neon green	1	
	162-79034-4	Gate handles, KOLTEC, neon green, package of 4	4	
5	162-79035	Gate handle, KOLTEC, neon violet	1	
	162-79035-4	Gate handles, KOLTEC, neon violet, package of 4	4	
6	162-80020	Gate handles KOLTEC, black	1	
7	162-80019	Gate handle KOLTEC, black, INOX	1	
8	162-79030	Gate handle, KOLTEC, red	1	
9	162-79031	Gate handle, KOLTEC, red INOX	1	
10	162-79020	Gate handle, KOLTEC, yellow	1	
11	162-79038	Gate handle KOLTEC, white	1	
12	162-79039	Gate handle KOLTEC, white INOX	1	
13	162-80029	Gate handle, black, budget, separate	1	
14	162-79010-2	Gate handle, black with fixed tape clamp, per 2 pieces	2	
15	162-79011-2	Gate handle, white with fixed tape clamp, per 2 pieces	2	
16	162-80023-2	Gate handles KOLTEC, black, with tape connectors	2	
17	162-80143-2	Gate handle plates, INOX, for connecting tape up to 50 mm to a gate handle	2	

PU=Packing Unit Price incl. VAT

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GATE HANDLE ANCHORS



+ = Incl. / Inkl.

Photo	Art. nr.	Description	PU	€ price/PU
1	162-80079-4	Gate handle anchors	4	
	162-80079-10	Gate handle anchors	10	
2	162-79040-4	Gate handle anchors, INOX	4	
3	162-79045-4	Gate handle anchors with M6 thread incl. 2 nuts	4	
4	162-80177-2	Double tape gate handle anchor	2	
5	162-80080-2	Gate handle anchors kit, with 2 gate handle anchors and 3 tape connectors	2	
6	162-80167-4	Pin lock insulator, with gate handle anchor and connection nut	4	
7	162-80069-2	Strain/corner insulators, very strong with INOX plate	2	
8	136-80046	Connection and anchor plate for 162-80068 & 162-80046 tape insulator	1	
	162-80069-4	Connection and anchor plate for 162-80068 & 162-80046 tape insulator	4	

PU=Packing Unit Price incl. VAT



Koltec has developed two new types of the gate handle anchors which make it easy to assemble. Very strong, without turning parts. The gate handle anchor is made in a way that animals can't injure themselves to this insulator. The two way is ideal for gate closures. The three-way is ideal for gate splittings and compartments. These gate handle anchors are available in a galvanized and in an INOX version. Packed per 4.



Photo	Art. nr.	Description	PU	€ price/PU
1	162-79079-4	Gate handle anchors KOLTEC, 2-way, galvanized	4	
	162-79080-4	Gate handle anchors KOLTEC, 2-way, INOX	4	
2	162-79081-4	Gate handle anchors KOLTEC, 3-way, galvanized	4	
	162-79082-4	Gate handle anchors KOLTEC, 3-way, INOX	4	
3	162-79083-4	Gate handle anchors KOLTEC, 3-way, galvanized, for metal posts M6	4	
	162-79084-4	Gate handle anchors KOLTEC, 3-way, INOX, for metal posts M6	4	

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GATE KITS

All the sets are built with a KOLTEC gate handle.



Photo	Art. nr.	Description	PU	€ price/PU
1	162-80041	Gate kit, INOX, with spring. Not suitable for horses	1	
2	162-80004	Gate kit with spring, galvanized, not suitable for horses	1	
3	137-80025	Cable 4 -5 m red /white, elastic, separate	1	
	162-80025	Gate kit, elastic cable, red/white, for gates up to 5 mtr, incl. gate handles and insulators	1	
	137-80026	Cable 2 -3 m red /white, elastic, separate	1	
	162-80026	Gate kit, elastic cable, red/white, for gates up to 3 mtr, incl. gate handles and insulators	1	
4	137-80008	Cable 2 -3 m, brown, elastic, separate	1	
	162-80008	Gate kit, elastic, brown, for gates from 2 - 3 mtr	1	
	137-80014	Cable 4 -5 m brown, elastic, separate	1	
	162-80014	Gate kit, elastic, brown, for gates from 4 -5 mtr	1	
5	162-80002	Gate kit for rope, INOX, variable wideness	1	
6	162-80003	Gate kit for tape, INOX, variable wideness	1	

PU=Packing Unit Price incl. VAT



Photo	Art. nr.	Description	PU	€ price/PU
1	162-79990	Elastic rope kit for 4,5 m, 10 mm brown INOX	1	
	162-79990-100	Elastic rope, 10 mm brown	100	
2	162-79991	Elastic rope kit for 4,5 m, 10 mm white INOX	1	
	162-79991-100	Elastic rope, 10 mm white	100	
3	162-80007	Gate kit with elastic rope and 2 gate handles for gates up to 2 m	1	
4	162-80001	Gate kit with elastic rope, for gates up to 6 mtr	1	
5	162-80001-50	Rope elastic on a 50 m coil	50	
6	162-80001-25	Rope elastic on a 25 m coil	25	
7	162-79998	Gate set, elastic rope, brown/red, for gates up to max. 6 m	1	
8	162-79998-25	Rope, elastic, brown/red, coil with 25 m	25	
9	162-80001-2mn	Mounting kit for elastic rope	2	
10	162-79990-2mn	Mounting kit for elastic rope	2	

PU=Packing Unit Price incl. VAT

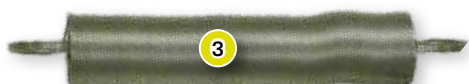


Photo	Art. nr.	Description	PU	€ price/PU
1	162-85463	Rollgate with white tape, unwinnable up to 6 mtr	1	
	162-85468	Rollgate with black tape, unwinnable up to 6 mtr	1	
2	162-80024	Gate handle KOLTEC, black with spring	1	
3	136-60258	Spring (single)	1	
4	136-60263	Spring (single) INOX	1	

PU=Packing Unit Price incl. VAT

STRAINERS



Photo	Art. nr.	Description	PU	€ price/PU
1	162-80146-4	Rotor strainers for wire and rope 4 pcs	4	
	162-80146-50	Rotor strainers for wire and rope 50 pcs	50	
2	162-80147	Strain handle for rotor strainer	1	
3	162-80154	Strain handle for ratchet strainers	1	
4	162-80140	Ratchet strainer, solid for aluminium and steel wire	1	
5	162-80148	Ratchet strainer, solid with integrated insulator, for wire	1	
6	162-80156-2	Straining set, INOX, for rope, with hook and screw eyes	2	
	162-80160-2	Straining set, INOX, for rope, with hook and screw eyes	2	
7	162-80173-3	Tape strainer, synthetic	3	
8	162-80144	Wire strainer, small, galvanized, 10 cm long and 3 cm wide (nr.2)	1	
9	162-80145	Wire strainer, large, galvanized, 13 cm long and 5 cm wide (nr.4)	1	
10	162-80176-2	Wire strainer for thin synthetic wire	2	
11	162-80150-wit	Strainer reinforced, synthetic, white, for wire	1	
	162-80150-2wt	Strainer reinforced, synthetic, white, for wire, package of 2	2	
12	162-80150-zw	Strainer reinforced, synthetic, black, for wire	1	
	162-80150-2zw	Strainer reinforced, synthetic, black, for wire, package of 2	2	

PU=Packing Unit Price incl. VAT

Use the large spring sets for quick and easy installation of steel, galvanized and aluminum wire . They are equipped with an egg insulator with hook, tension spring and optionally with cogwheel tensioner. Available in stainless steel or galvanized steel.

Use the small spring sets for aluminum and plastic wire. The springs are of course also available separately

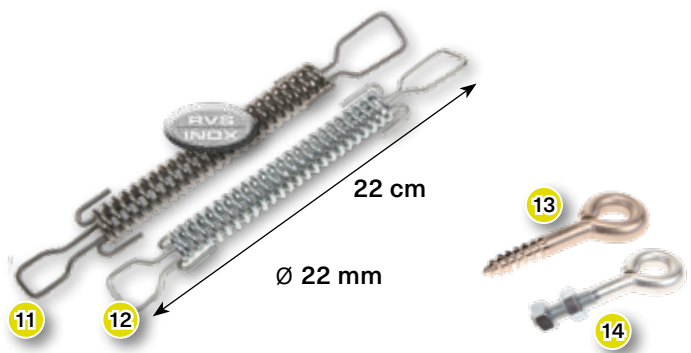
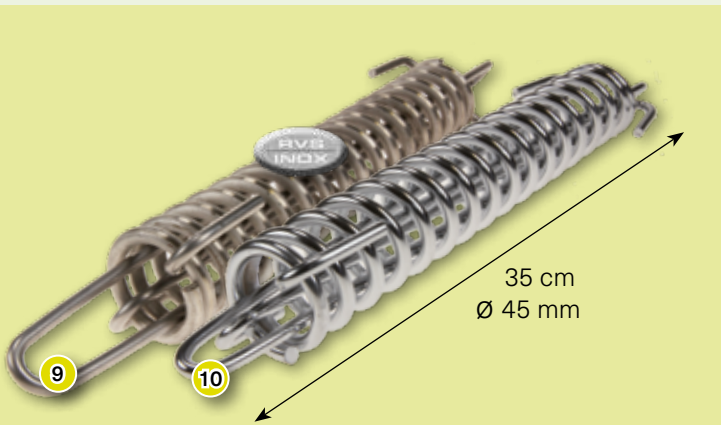


Photo	Art. nr.	Description	PU	€ price/PU
1	162-70505	Strain set, INOX, egg-insulator, black, with hook, spring and ratchet strainer	1	
	162-70605	Strain set, INOX, egg-insulator, white, with hook, spring and ratchet strainer	1	
2	162-70503	Strain set, egg-insulator, black, with hook, spring and ratchet strainer	1	
	162-70603	Strain set, egg-insulator, white, with hook, spring and ratchet strainer	1	
3	162-70507	Strain set, INOX, egg-insulator, black, with INOX hook and INOX strain spring	1	
	162-70607	Strain set, INOX, egg-insulator, white, with INOX hook and INOX strain spring	1	
4	162-70502	Strain set, egg-insulator, black, with hook and strain spring	1	
5	162-70602	Strain set, egg-insulator, white, with hook and strain spring	1	
6	162-70508	Strain set with strainer, egg-insulator, black, with INOX hooks and small spring	1	
	162-70608	Strain set with strainer, white egg-insulator, white, with INOX hooks and small spring	1	
7	162-70509	Strain set with strainer, egg-insulator, black, with galvanized hooks and small spring	1	
8	162-70609	Strain set with strainer, white egg-insulator, white, with galvanized hooks and small spring	1	
9	162-80149-rvs	Straining spring, large, INOX, for steel wire	1	
10	162-80149	Straining spring, large, galvanized, for steel wire	1	
11	162-80151	Straining spring, small, INOX, for thin metal wire and rope	1	
12	162-80155	Straining spring, small, galvanized, for thin metal wire and rope	1	
13	136-60261	Screw eye galvanized for wooden posts	1	
	136-60262	Screw eye, INOX for wooden posts	1	
14	136-60264	Screw eye, INOX, for metal posts, 80 mm M8	1	

PU=Packing Unit Price incl. VAT

REELS



“These reels are suitable for polywire, rope and tape.”



NEW!



KOLTEC has various reel systems in its range. The larger hand reels are suitable for wire, rope and tape. View the table for more information about the capacity.

Separate reels and mounting brackets are available for almost all reels.

1. LARGE REEL

Ideal large reel with mounting frame to mount on a mounting post without accessories. The reel is supplied with a locking ratchet and an adjustable break.

3. REEL

Spare coil for large reels.

4. LARGE REEL WITH 1:3 GEAR RATIO AND WIRE DIVIDER

Handy reel with gear and an automatic wire-divider. The divider ensures optimum filling of the spool and better use of maximum capacity. Also fitted with a switch to switch the power on and off on the spool. It can spool 75 m of 40 mm ribbon up to 1,500 m of thin wire.

5. LARGE REEL WITH STRAP

Handy reel with locking ratchet and supplied with strap, which makes it easy to carry when spooling the wire, rope or tape.

Reel	Art.Nr.	Indication		
Conductor	Mtr's	162-39026	162-39029	162-39029-1
Wire	12 PE	2000	2000	1500
Wire	18 PE	1000	1000	750
Wire	24 PE	750	750	500
Rope	4 mm	500	500	300
Rope	6 mm	200	200	150
Tape	12,5 mm	500	500	400
Tape	20 mm	400	400	300
Tape reinf.	20 mm	300	300	200
Tape	40 mm	150	150	100
Tape reinf.	40 mm	100	100	75

+ = Incl. / Inkl.

Photo	Art. nr.	Description	PU	€ price/PU
1	162-39026	Reel, large with mounting frame	1	
2	162-60022	Support bracket for reel 162-39026	1	
3	162-39029-1	Reel for 162-39029 & 162-39026, spare	1	
4	880 0004-791	Reel, large geared 1:3, with wire divider	1	
5	162-39029	Reel, large with strap	1	
6	162-60023	Support bracket for reel 162-39029	1	

PU=Packing Unit Price incl. VAT

6. LARGE REEL GEARED 1:3

Reel equipped with an accelerator mechanism for fast spooling of wire, rope or tape. The drum rotates three times faster. Capacity for 200 mtr tape or 500 mtr wire

8. PRACTICAL SMALL REEL

Small versatile reel. Solid and durable for poly wire, rope and tape.
The reel is detachable and can be replaced by a reel with wire, rope or tape.
The reel has a construction that makes it possible to hang it on the existing fence, or on the KOLTEC angle iron post, code 162-80108. (In combination with code 162-39032-2).
Spool is suitable for 100 mtr 40 mm poly tape or upto 1,000 mtr thin poly wire.

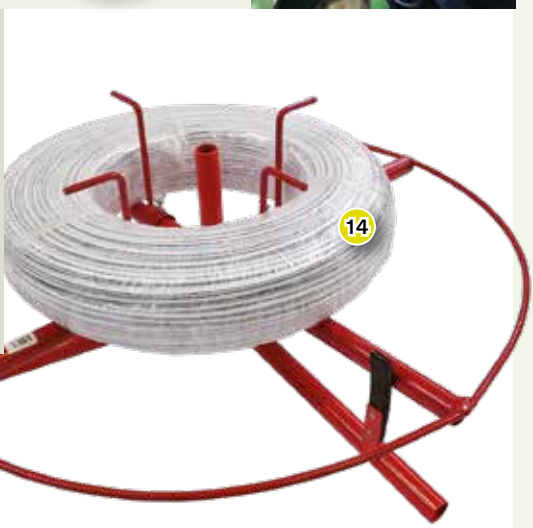
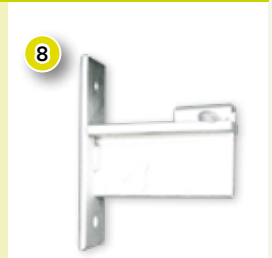
10. SMALL REEL

Small versatile reel. Solid and durable for poly wire, rope and tape.
The reel has a construction that makes it possible to hang it on the existing fence, or on the KOLTEC angle iron post. (In combination with code 162-39032-2)

13. WIRE DISPENSER

Heavy duty dispenser for easy unwinding of high tensile wire.

Now also suitable for Long Life Cable!



of the reel capacity					
	880 0004-791	162-39025	162-39035	162-39027	162-39031
4	1500	1500	2000	750	500
	750	750	1000	500	300
	500	500	650	300	200
	300	300	400	150	75
	150	150	200	100	50
	400	400	500	300	200
	300	300	400	200	100
	200	200	250	100	75
	100	100	125	75	50
	75	75	100	50	25

Photo	Art. nr.	Description	PU	€ price/PU
7	162-39035	Wide reel geared 1:3	1	
	162-39025	Reel, large geared 1:3 for 200 mtr tape/500 mtr polywire	1	
8	162-60021	Support bracket for reel 162-39024 & 25	1	
9	162-39027	Reel, small, all-round	1	
10	162-39028	Reel for 162-39027, spare	1	
11	162-39031	Small reel, handy for strip grazing	1	
12	162-39027-1	Brake pin, single, spare	1	
13	162-60024	Support bracket for reel 162-39027 & 31	1	
14	162-39033	Wire dispenser for heavy steel wire	1	

PU=Packing Unit Price incl. VAT

CORNER POSTS



Photo	Art. nr.	Description	PU	€ price/PU
1	162-80121-15	Corner post, galvanized, 105 cm with M12 thread	15	
2	162-80108	Corner post, green, 130 cm with M12 thread, powder coated	1	
Accessories for corner posts				
3	162-80054-25	Dump insulators KOLTEC, yellow+black cap, for M10 and M12 thread	25	
4	162-79700-25	W-skirt insulator M8/M10/M12	25	
5	162-80095-25	Ring insulators with M6 on metal posts, incl. 2 nuts	25	
6	162-79083-4	Gate handle anchors KOLTEC, 3-way, galvanized, for metal posts M6	4	
7	162-80012-4	Corner roll insulators for rope and wire for metal posts with M6 thread incl. 2 nuts	4	
8	162-80038-4	Split insulators for angle iron post	4	
9	162-70500	Egg-insulator with 1 hook, single	1	
10	162-80040-25	Screw cap insulators, black screw cap, for M8, M10 and M12 thread	25	
11	162-79800-25	Tape insulator for brachets of/with 8mm/M10/M12 thread	25	

PU=Packing Unit Price incl. VAT

1. CORNER LINE POST

Hot dipped, galvanized corner post with M12 thread.
Delivered without insulator. This post is also made suitable to mount the Powergard and Powergard XP.

2. ANGLE IRON CORNER POST

Green coated corner post with various connection possibilities, top insulator not included. Can also be used as reel corner post with the separate available hook.

110 cm

100 cm

90 cm

80 cm

70 cm

60 cm

50 cm

40 cm

30 cm

20 cm

10 cm

00 cm

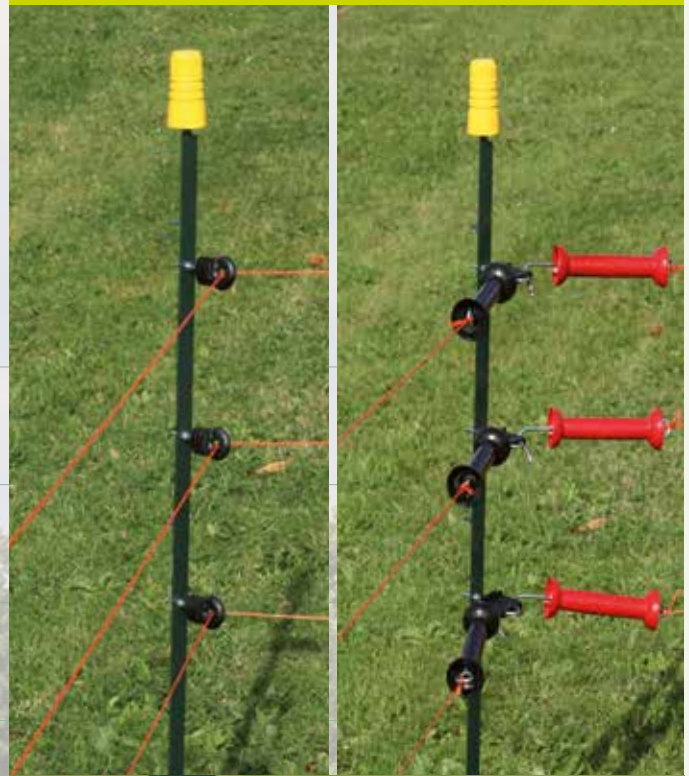
-10 cm

-20 cm

1

2

2



STRIP GRAZING POSTS

1. FIBREGLASS GARDEN POSTS

A solid, discrete fibreglass post with a special synthetic foot for a stable mounting. The foot also takes care of less growth of weed around the post. Simplifying the maintenance of the garden. The black color takes care of a discrete placing of the fence. Is supplied with 1 click-on insulator (162-80063-25).

2. GREEN GARDEN POST

7 mm thick green garden post. Ideal for a hardly visible placing of a fence. Delivered with two green click-on insulators.

Art.nr. 162-80064-25

3-6. PVC-POSTS

Various PVC Poles with different lengths and pins. Equipped with top insulator for wire. Additional insulator item no. 162-80009-25.

7. "LIFE"POST

Post with an insulator at 40 cm and a "life" pigtail up to 85 cm.

8. GREEN PIGTAIL POST

Very solid, 8 mm thick green pigtail post. Perfect for temporary fences, with an environmental friendly colour. For the tensioning of more wires you can add insulator 162-80062-25.

Length 105 cm, max. fencing height 89 cm.

9. WHITE PIGTAIL POST

6 mm thick white spring steel pigtail post. Perfect for temporary fences.

For the tensioning of more wires you can add insulator 162-80063-25. Length 105 cm, max. fencing height 89 cm.

10 - 11. SPRING STEEL FENCE POST WITH PIGTAIL INSULATOR

Green, oval steel fence post with top insulator and solid foot support.

For the tensioning of more wires you can add insulator 162-80061-25.

Length 105 cm,

max. fencing height 85 cm.

12. SPRING STEEL FENCE POST WITH RING INSULATOR

Green, oval steel fence post with ring insulator and solid foot support. For the tensioning of more wires or tape you can add insulator 162-80061-25

or 162-80048-25. Length 105 cm,

max. fencing height 85 cm.

13 - 15. SPRING STEEL FENCE POST WITH ROPE INSULATOR

Green, oval steel fence post with rope insulator and solid foot support.

For the tensioning of more wires or tape you can add insulator 162-80061-25 or 162-80048-25. Length 105 cm and 140 cm. Max. fencing

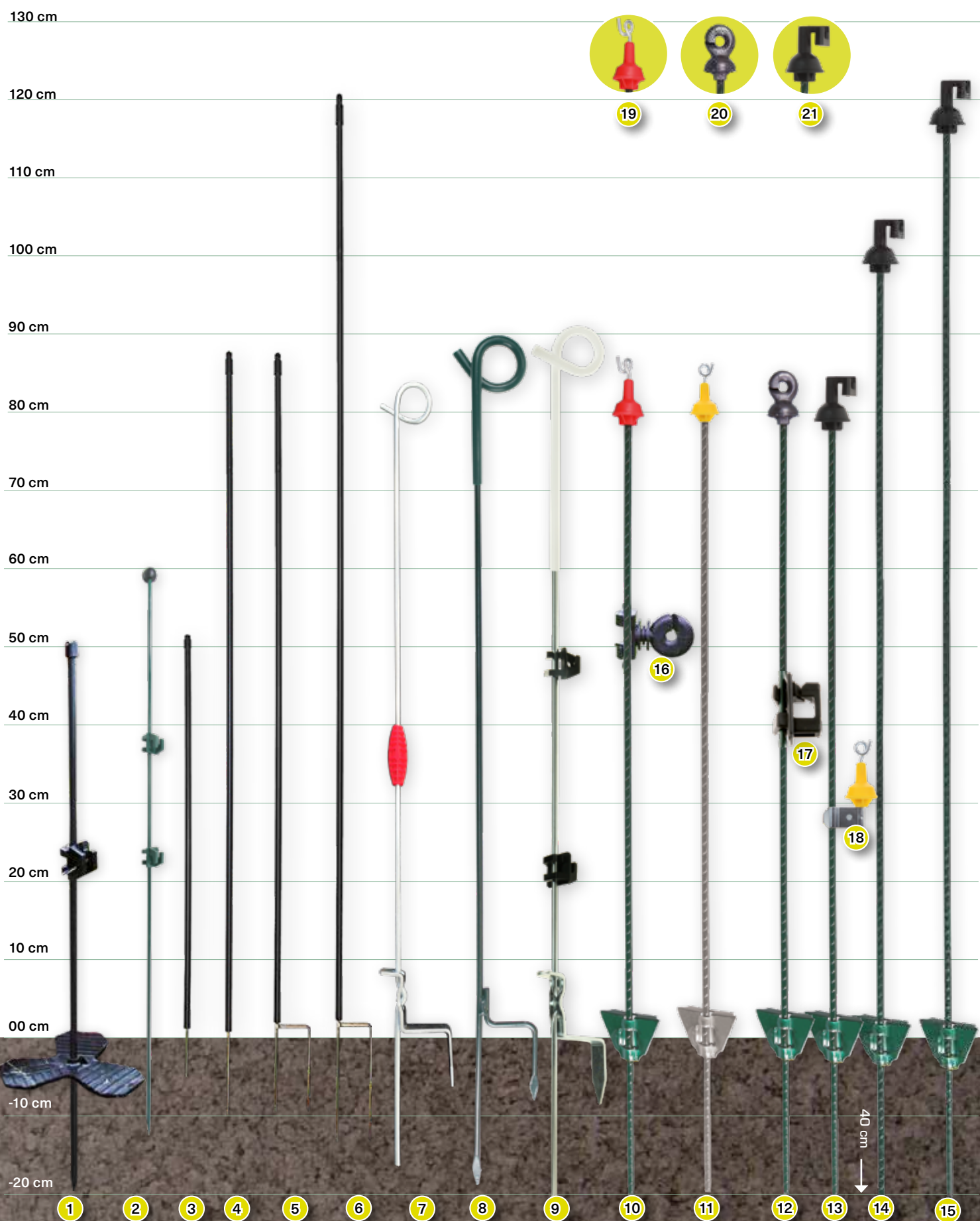
height 85, 100 and 120 cm.

All information about the insulators for these posts you can find on page 79



Photo	Art. nr.	Description	PU	€ price
1	162-80310-10	Garden posts, fibreglass, black, 50 cm	10	
2	162-80103-10	Garden posts, green, 100 cm 7 mm, incl. 2 click insulators, per 10	10	
3	162-50003-1	Extra and/or exchange post for green rabbit net	1	
4	162-50000-1	Post extra/exchange for green sheep net	1	
5	162-50000-12p	Post, spare, for sheep netting, 2 pins	1	
6	162-50011-12p	Post, spare, for poultry netting of 120 cm, 2 pins	1	
7	162-80114	"Live" Pigtail post 105 cm, second half conducts	1	
8	162-80106	Pigtail post, green 105 cm ø 8 mm, powder coated	30	
9	162-80165	Pigtail post, spring steel, white 105 cm 6 mm, heavy galvanized	30	
10	162-80102	Posts, spring steel, green, oval with pigtail insulator 105 cm	25	
11	162-80102-ggr	Post, spring steel, silver, oval with yellow pigtail insulator 105 cm	25	
12	162-80101	Posts, spring steel, green, oval with ring insulator 105 cm	25	
13	162-80125	Post, spring steel, 105 cm green, oval with rope insulator	25	
14	162-80159	Post, spring steel, 140/100 cm green, oval with rope insulator	25	
15	162-80157	Post, spring steel, 140 cm green, oval with rope insulator	25	
16	162-80061-25	Ring insulators, klemmfix for oval spring steel posts	25	
17	162-80048-25	Insulators for oval posts for tape up to 20 mm	25	
18	162-80015	Side pigtail insulator, for oval spring steel posts	1	
19	162-80117-25	Pigtail insulators, red for oval post, spare	25	
20	162-80116	Ring insulator for oval post, spare	1	
21	162-80118	Rope insulator for oval post, spare	1	

PU=Packing Unit Price incl. VAT



STRIP GRAZING POSTS



METAL POSTS FOR A SOLID MOVABLE FENCING

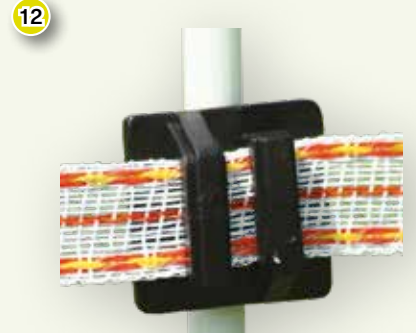
These strong galvanized fence posts have a 25 mm M12 screw thread on the head and arms. Koltec has various insulators available that fit this perfectly. These can be attached quickly and easily.

There are 3 types of posts. With this, a fence can be set up for every animal species and fencing requirement.

Effective wire heights (incl. Insulator) are with the highest wire on resp. 85 and 125 cm. The 2nd thread is on resp. 50 and 80 cm high.

INSULATORS

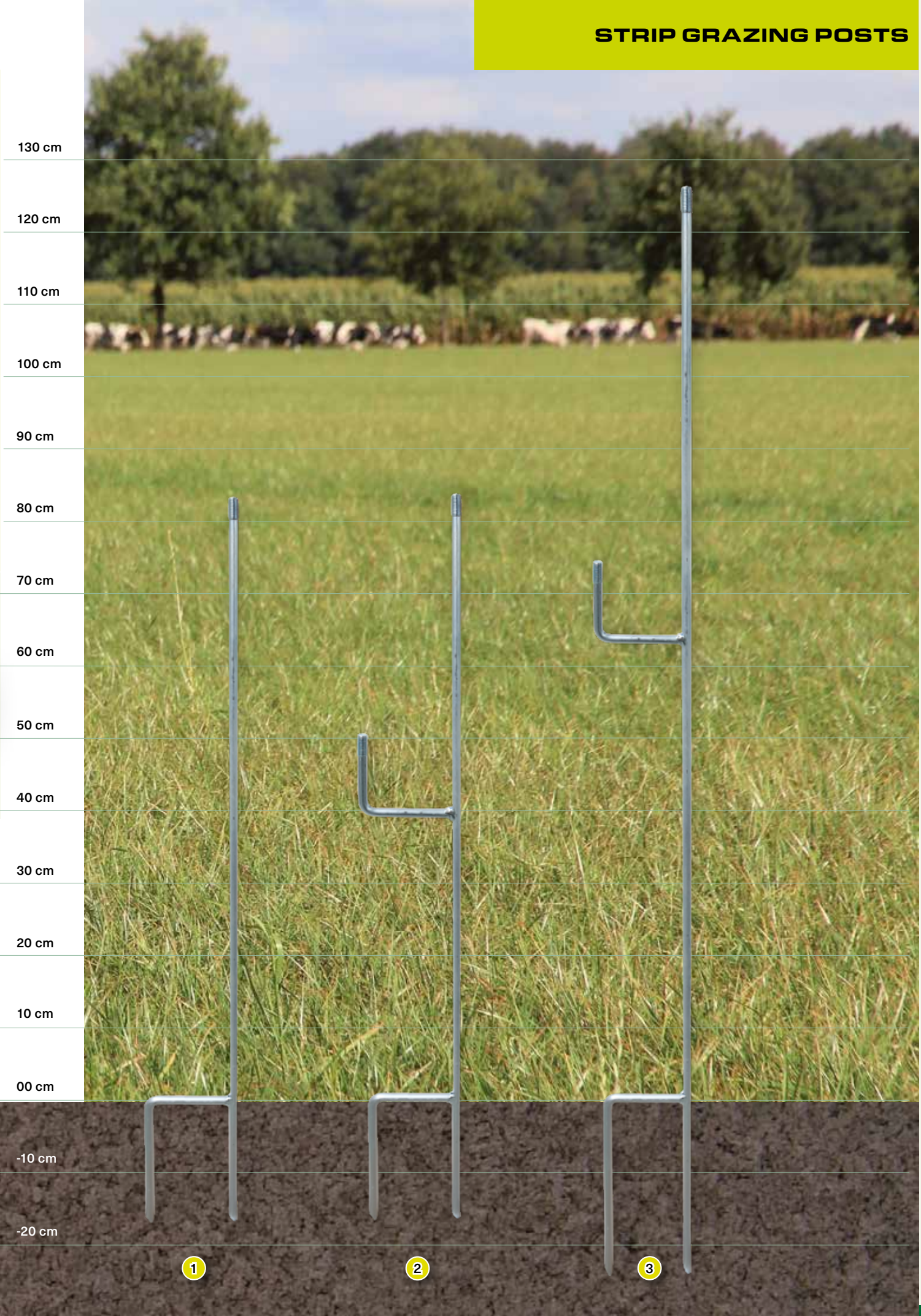
If more wires are required because smaller animals are in the field, you can install additional insulators. Koltec has two types of click insulators which are suitable for 12 mm thick ration piles. This way you can quickly create an extra wire or tape at any desired height.



All information about the insulators for these posts you can find on page 79 & 92

Photo	Art. nr.	Description	PU	€ price/PU
1	162-80127-10	Fence post, 1 m incl. foot support. Provided with a M12 thread top	10	
2	162-80128-10	Fence post, 1 m incl. foot support and sidearm. Arm and top are provided with M12	10	
3	162-80129-10	Fence post, 1,50 m incl. foot support and sidearm. Arm and top are provided with M12	10	
Accessories for strip grazing posts				
4	162-80054-25	Dump insulators KOLTEC, yellow+black cap, for M10 and M12 thread	25	
5	162-80054-z100	Dump insulators KOLTEC, complete black, for M10 and M12 thread	100	
6	162-80054-g100	Dump insulators KOLTEC, complete yellow, for M10 and M12 thread	100	
7	162-79700-25	W-skirt insulator M8/M10/M12	25	
8	162-80040-25	Screw cap insulators, black screw cap, for M8, M10 and M12 thread	25	
9	162-80044-25	Screw cap insulators, yellow screw cap, for M8, M10 and M12 thread	25	
10	162-79800-25	Tape insulator for brachets of/with 8mm/M10/M12 thread	25	
11	162-80010-25	Click insulators, yellow, for ø 10 mm posts	25	
12	162-80210-25	Click insulators, black, for wire and tape up to 20 mm on round ø 10 mm posts	25	

PU=Packing Unit Price incl. VAT



1

2

3

PLASTIC POSTS



Use in combination with plastic posts for temporary fences rope or 20 mm tape. Wider tape catches too much wind and that will blow the posts down.

Photo	Art. nr.	Description	PU	€ price/pc
1	162-80340-10	Posts, synthetic, white 75 cm, budget only per 10	10	
2	162-80325-10	Posts, synthetic, white 105 cm, budget only per 10	10	
3	162-80327-10	Posts, synthetic, white 154 cm, budget only per 10	10	
4	162-80341-10	Posts, synthetic, black 75 cm, budget only per 10	10	
5	162-80337-10	Posts, synthetic, black 105 cm, budget only per 10	10	
6	162-80338-10	Posts, synthetic, black 154 cm, budget only per 10	10	
7	162-80332	Post, stirrup, synthetic, black, 120 cm	1	
8	162-80333	Post, stirrup, synthetic, black, 160 cm	1	
9	162-80328	Post, stirrup, synthetic, white, 120 cm	1	
10	162-80326	Post, stirrup, synthetic, white, 160 cm	1	

PU=Packing Unit Price incl. VAT



VARIOUS FENCING ACCESSORIES



For mounting advise see page 41



1. LIGHTNING DIVERTER
Electric fences are sensitive for lightning. With the proper prevention measures it is possible to prevent damage on the electric fencer when struck by lightning. The KOLTEC lightning diverter offers the necessary protection by diverting the lightning charge directly to the ground.

2. SECTION SWITCH
Ideal switch to connect or disconnect sections with 2 power exits.

3. MULTIPURPOSE FENCING TOOL
Indispensable tool for cutting the wire, removing clamps or using it as a hammer.

4. WIRE PLIER FOR STEEL WIRE

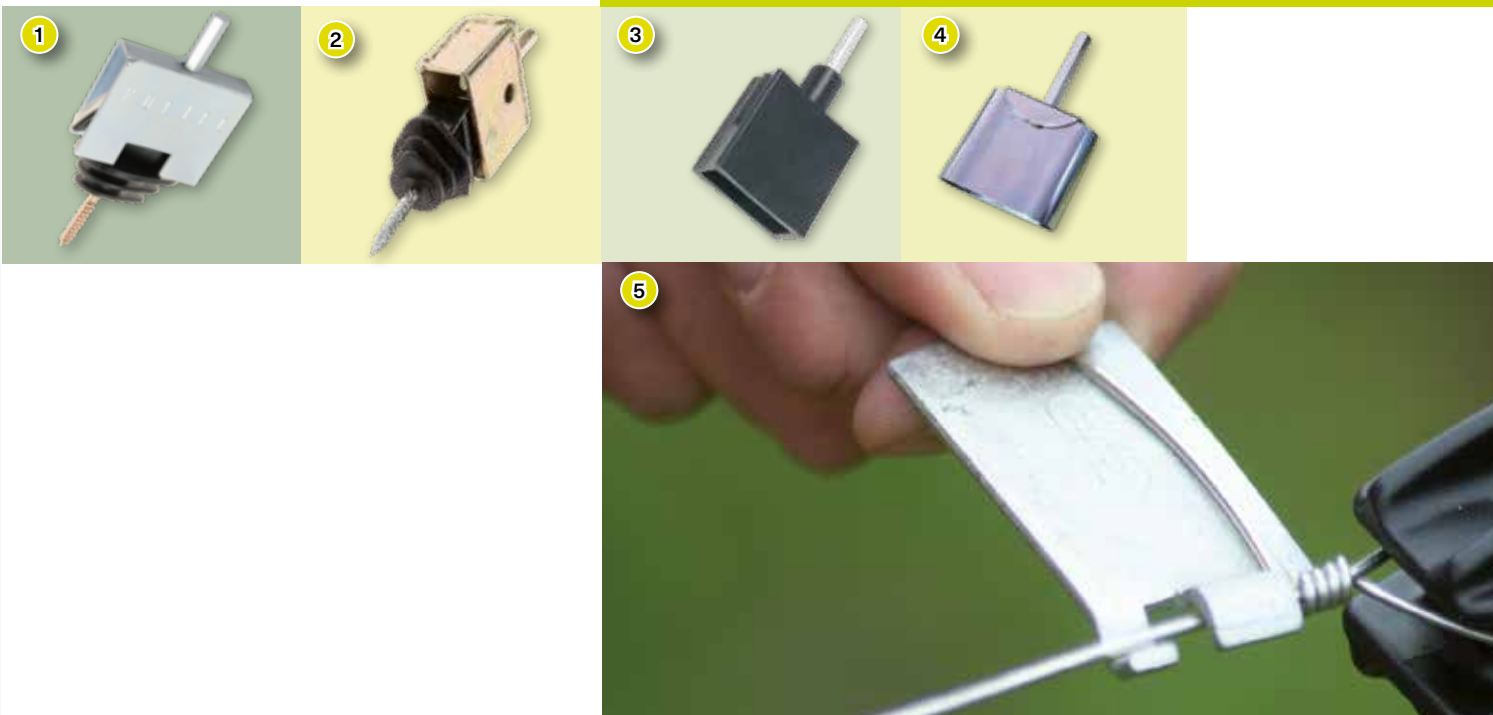
5. ELECTRIC FENCE WARNING SIGN
Obligatory with an electric fence at a public road. The sign has to be placed every 50 m.

6. SIGN " VERBODEN TOEGANG"
Only for the Dutch market.



Photo	Art. nr.	Description	PU	€ price/PU
1	162-80175-1	Lightning diverter	1	
2	162-85470	Switch, high voltage, for connecting sections, two exit terminals	1	
3	162-85458	Fencing tool, multifunctional	1	
4	162-85482	Wire plier for steel wire	1	
5	162-39501-4	Signs "Warning electric fence", obligatory along public roads (4)	4	
6	162-39505	Sign "Verboden toegang", only for the Netherlands	1	

PU=Packing Unit Price incl. VAT



Art.nr. screw	To use with art.nr.:	Description
131-15180-200	162-80173-3 162-80175-1 162-85470	5 * 40 roundhead
131-15181-200	162-80082-25 162-80172-4 162-80046-4 162-80120-4	5* 45 Conical
131-15182-200	162-80166-10 162-80060-25 162-80171-3	4,5 * 35 roundhead
131-15183-200	162-80100-25 162-80100-100 162-80081-25 162-80081-100 162-80110-4 162-80111-2 162-80112-2 162-80180-25 162-80180-100 162-80404-25 162-80404-100	3,5 * 25 roundhead



Photo	Art. nr.	Description	PU	€ price/PU
1	162-85480	Screw aid KOLTEC, metal, for KOLTEC tape and ring insulators	1	
2	162-85472	Screw aid KOLTEC, metal aid for KOLTEC hook-ring insulators	1	
3	162-85461	Screw aid KOLTEC Lisofix, for ring insulators	1	
4	162-85469	Screw aid, metal, budget	1	
5	162-85471-4	Wire twisters for solid connection	4	
6	131-15180-200	Woodscrew, 5,0 * 40 mm PZ-2 panh., galv.	200	
7	131-15181-200	Woodscrew, 5,0 * 45 mm PZ-2 con, galv.	200	
8	131-15182-200	Woodscrew, 4,5* 35 mm PZ-2 panh., galv.	200	
9	131-15183-200	Woodscrew, 3,5 * 25 mm PZ-2 panh., galv.	200	

PU=Packing Unit Price incl. VAT

2024

VOLTAGE TESTERS

Wireless, finds your problem quickly



1. KOLTEC DETECTOR

The KOLTEC detector measures the voltage and the current with one push on the button by pressing the metal brace on the wire (wire under the brace). The big advantage of the KOLTEC detector is that also the current direction is been read out. In a fence the current always runs from the source (electric fencer) tot the short-circuit in the fence, taking the shortest possible way.

Voltage

The voltage can be read out by the KOLTEC detector, even so there is only one metal strip with which the fence is touched. The KOLTEC detector has a high impedance amplifier that makes it possible to take the hand of the user as reference capacity without feeling anything.

Current

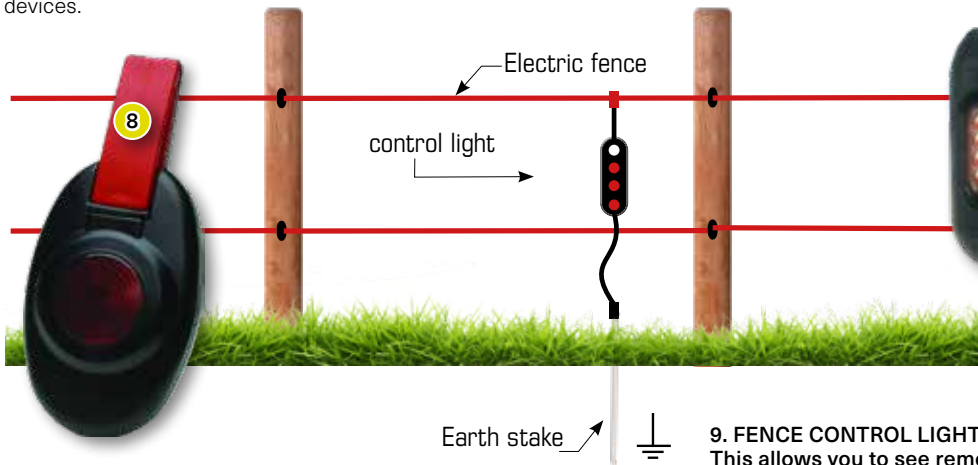
During the measurement it is possible that the left or right direction light will flash. These lights are developed to indicate the direction of the current and with that de direction of the failure.

The KOLTEC detector calculates the resistance out the measured data and based on that a LED will be activated. If the tension is high, for example 7.0 kV and the current is 4 Ampere, than the tension is 1750 Ohm and the detector will not notice this as a failure and a direction light will not flash. If the tension is low, for example 2.5 kV and the current is 4 Ampère, than the resistance is 625 Ohm and the KOLTEC detector will activate a red direction light.



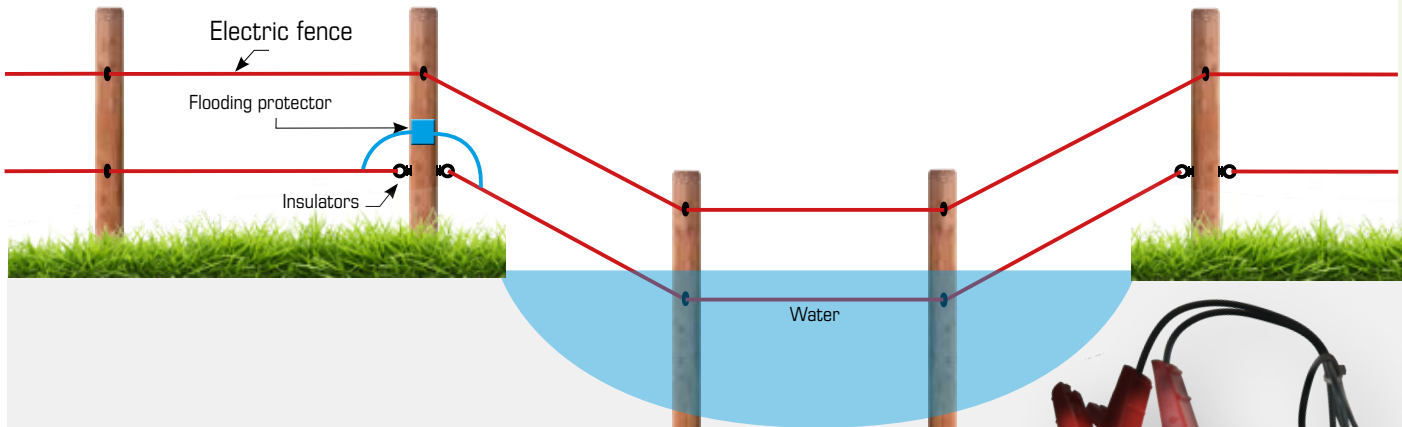
8. FENCE ALERT

Starts flashing when the voltage on your fence drops below a desired level. Adjustable to 2 settings. Runs on a battery. Needs no earth or reference connection. Works with all brands and types of electric fence devices.



9. FENCE CONTROL LIGHT

This allows you to see remotely whether your fence is still functioning (correctly).



8. FLOOD AND GROWTH PROTECTION

This protects your main fence against expected, but unavoidable, short-circuits due to flooding and / or heavy growth.

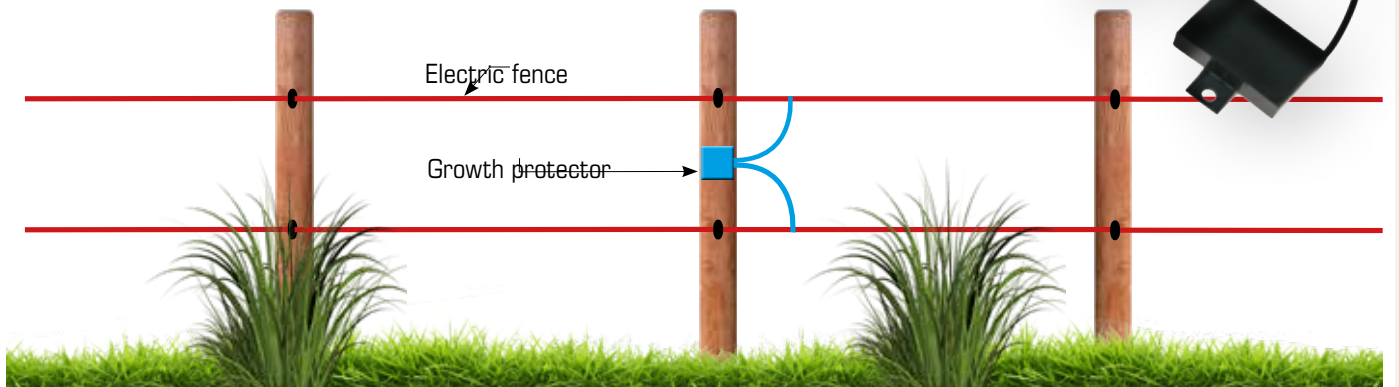


Photo	Art. nr.	Description	PU	€ price/PU
1	162-85457	Detector KOLTEC, without reference wire	1	
2	162-85451	Voltmeter, digital, black, measuring range up to 9.900 Volt	1	
3	162-85449	Tester, indication tension measuring, without reference wire. Excl. batteries	1	
4	162-85455	Tester 8-O-lite, testing indication in 8-levels	1	
5	162-85460	Tester for electric fences, wireless	1	
6	162-85450-1	Tester, neon, tension indication	1	
7	162-85487	Pocket knife - tester Boundary Blade	1	
8	880 0000-521	Fence alert	1	
9	162-85477	Fence control light	1	
10	162-85478	Flood and growth protection	1	

PU=Packing Unit Price incl. VAT

CONNECTING SMALL FENCES

Connect the earth output (1) to an earth stake (2) with a high-tension cable.

Connect the current output (3) to the wire with a high tension cable. Mount this close to a post for preventing sagging down. As an option you can mount a section switch, or an on/off switch in between.

You can safely connect the cable (4) with the other wires (7) with for instance screw terminals or connection kits.

Connect the fencer to mains (5).

BATTERY, WET-CELL BATTERY AND SOLAR-ENERGY

If you have no electric power available you can decide to buy a wet-cell battery or battery fencer.

In most cases they can also be nourished with solar-energy.

EARTHING

A wooden fence or wall insulates the electric fence wire from the earth. With the consequence that the animal does not feel the shock. This is easily solved by mounting a wire on the wooden fence or wall that is connected to the earth output of the fencer.

The same occurs around a pond, where there is used gravel or natural stone. Here the conducting problem can be solved by tensioning an extra wire between the two electric wires on the posts which can function as an earth return wire.

WOODEN FENCE

A wooden fence or wall insulates the electric fence wire from the earth. With the consequence that the animal does not feel the shock. This is easily solved by mounting a wire (6) on the wooden fence or wall that is connected to the earth output of the fencer.

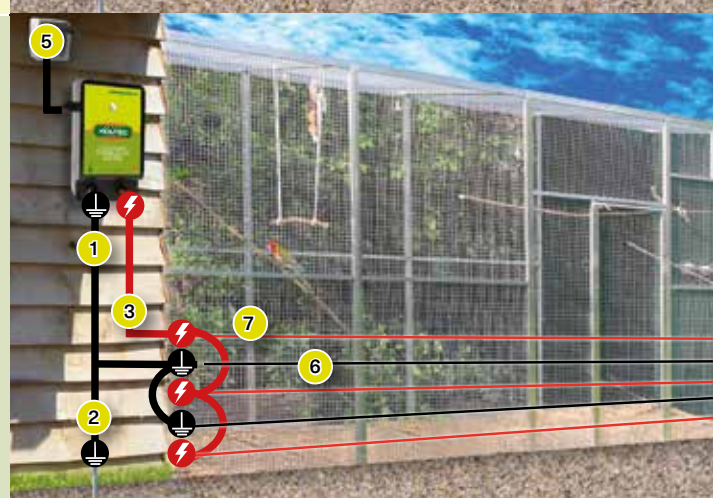
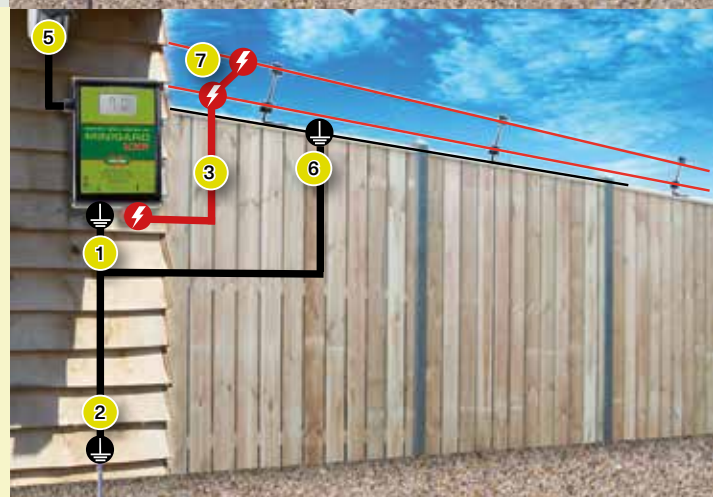
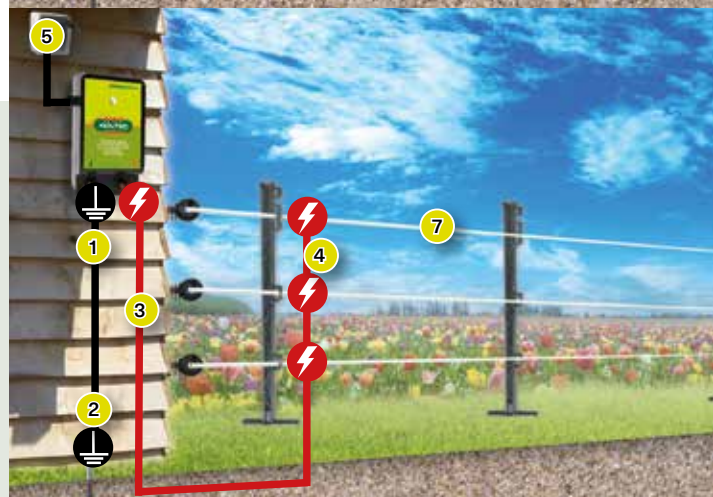
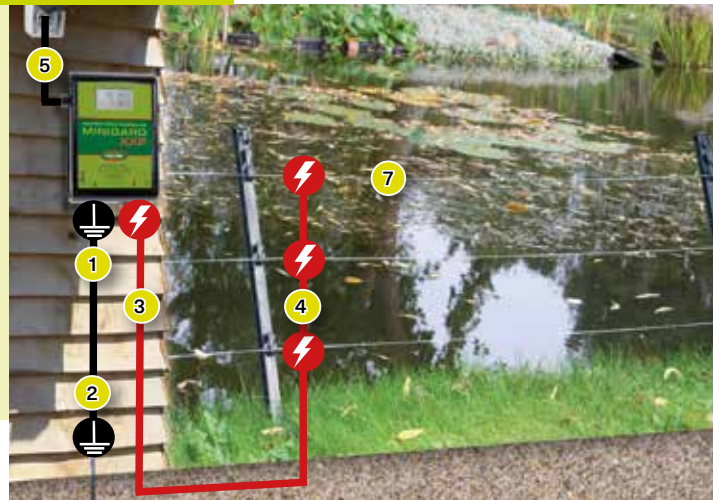
You can use the same wire as the electric wires. This wire does not need to be mounted insulated. An earth stake can be used as support.

AVIARY

An aviary has to be often protected against cats and birds of prey on the front, but also up above. You can protect the front and above with a gridding of at least 3 electric wires.

When the gaze is galvanized, the earth wire can be connected to the gaze (6). The gaze functions this way as an artificial earth. The aviary birds are not bothered by that.

If the gaze is plasticized, than there has to be mounted between the electric wires an earth wire (6). The plastic layer on the gaze isolates and can therefore not serve as zero or earth reference.

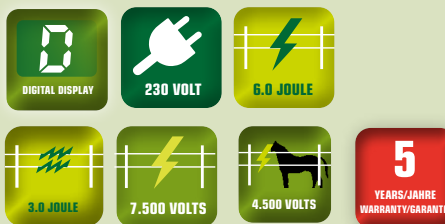




1. MINIGARD XXP

The MiniGard XXP is a very powerful energiser that tolerates some growth of weeds and/or grass, without a drastic decrease of the tension on the fence. This energiser is highly recommendable around ponds with lots of plants on the banks or gardens with lots of plants on the fence.

Where plants touch the wire, they will die. Because of the high power the energiser is extremely suitable for scaring away herons. These birds, that often fish the ponds empty, have insulated feathers, where the pulse of a less powerful energiser can't get through.



2. MINIGARD XP

The MiniGard XP is 5x more powerful than the MiniGard II. It tolerates a little growth of weeds and/or grass. The energiser will hold the tension at light growth on a proper level. Where plants touches the wire, they will be scorched.



3. MINIGARD II HOBBY

A small energiser, very suitable for short distance fences. Does not tolerate growth of weeds and/or grass. The MiniGard can be installed in combination with various accessories to make a fence to size.



Photo	Art. nr.	Description	PU	€ price/PU
1	161-82529	Energiser KOLTEC MiniGard XXP mains	1	
2	161-82524	Energiser KOLTEC MiniGard XP mains, ideal for large gardens	1	
3	161-82520	Energiser KOLTEC MiniGard II Hobby mains, for wooden fences and aviaries	1	

PU=Packing Unit Price incl. VAT

POND KIT



1. MINIGARD XXP POND KIT

This kit is designed especially to fence ponds. The MiniGard XXP is an energiser that tolerates some growth of pond plants, without losing the tension on the fence. This kit contains a MiniGard XXP, a connection cable set, 100 meter special turbo wire and two plastic wire strainers. Apart from this kit you need garden posts, with, depending on which kind of post, matching insulators. When the MiniGard XXP is installed at a longer distance from the pond, we recommend the use of high voltage cable for the connection. With a digital display which gives you information about the fence. Because of the high power the energiser is extremely suitable for scaring away herons. These birds, that often fish the ponds empty, have insulated feathers, where the pulse of a less powerful fencer can't get through.

2. MINIGARD XXP

The MiniGard XXP is a very powerful energiser that tolerates some growth of weeds and/or grass, without a drastic decrease of the tension on the fence. This energiser is highly recommendable around ponds with lots of plants on the banks or gardens with lots of plants on the fence. Where plants touch the wire, they will die. Because of the high power the energiser is extremely suitable for scaring away herons. These birds, that often fish the ponds empty, have insulated feathers, where the pulse of a less powerful energiser can't get through.

5. POND EDGE CLAMP

Nice and practical clamp for a natural stone or wooden pond edge. You can screw in the insulators very easy. Suitable for edges up to 40 mm thick.



Photo	Art. nr.	Description	PU	€ price/PU
1	161-82528	Energiser KOLTEC MiniGard XXP mains, pond kit	1	
2	161-82529	Energiser KOLTEC MiniGard XXP mains	1	
3	162-39023	Wire, green 3*0,2niro + 3*0,25Cu 100 mtr	100	
4	162-80150-2zw	Strainer reinforced, synthetic, black, for wire, package of 2	2	
5	162-80164-4	Pond edge clamps + insulators per 4 pieces	4	
6	162-80507-10	Offset ring insulators, INOX, 20 cm with M6 thread for wire/rope on metal posts	10	
	162-80508-10	Ring insulator, half long/10 cm with M6, incl. INOX nuts, for metal posts	10	
7	162-80506-25	Ring insulators, INOX, with M6 thread, incl. INOX nuts, for metal posts	25	

PU=Packing Unit Price incl. VAT



1. MINIGARD XP GARDEN KIT

In this kit there is a more powerful version of the energiser. This fence energiser is suitable for longer fences and is less sensitive for eventual light growth of weeds or plants. Besides the fencer we will deliver a basic kit with which a fence can be build. All you need to buy further are garden posts or insulator supports for the fence and an earthpin. The kit contains a MiniGard XP, 2 wire strainers, connecting cable set and 250 meter wire.

2. MINIGARD XP

The MiniGard XP is 5x more powerful than the MiniGard II. It tolerates a little growth of weeds and/or grass. The energiser will hold the tension at light growth on a proper level. Where plants touches the wire, they will be scorched.

Photo	Art. nr.	Description	PU	€ price/PU
1	161-82527	Energiser KOLTEC MiniGard XP mains, garden kit	1	
2	161-82524	Energiser KOLTEC MiniGard XP mains, ideal for large gardens	1	
3	162-39015	Wire, black, 250 m ca 2 mm, 12 PE wires + 3*0,2 INOX, breaking strength 55 kg, resistance 7,6 Ohm/m	250	
4	162-80150-2zw	Strainer reinforced, synthetic, black, for wire, package of 2	2	
5	162-80103-10	Garden posts, green, 100 cm 7 mm, incl. 2 click insulators, per 10	10	
	162-80310-10	Garden posts, fibreglass, black, 50 cm, see page 118	10	
6	162-80064-25	Click insulators, green, for posts of ø 7 mm	25	
	162-80063-25	Click insulators, black, for posts of ø 6 mm	25	

PU=Packing Unit Price incl. VAT

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AVIARY KIT

1. MINIGARD II AVIARY KIT

In this kit we added to the MiniGard II 25 little ring insulators, a plastic wire strainer, 100 meter wire and a connecting cable kit.

2. MINIGARD II HOBBY

A small energiser, very suitable for short distance fences. Does not tolerate growth of weeds and/or grass. The MiniGard can be installed in combination with various accessories to make a fence to size.



230 VOLT

0,2 JOULE

0,15 JOULE

7.000 VOLTS

1.000 VOLTS

5
YEARS/JAHRE
WARRANTY/GARANTIE



Photo	Art. nr.	Description	PU	€ price/PU
1	161-82526	Energiser KOLTEC MiniGard II aviary kit mains, for wooden cages	1	
	161-82523	Energiser KOLTEC MiniGard II aviary kit mains, for metal cages	1	
2	161-82520	Energiser KOLTEC MiniGard II Hobby mains, for wooden fences and aviaries	1	
3	162-39010	Wire, black, 100 m ca 2 mm, 12 PE wires + 3*0,2 INOX, breaking strength 55 kg, resistance 7,6 Ohm/m	100	
4	162-80150-2zw	Strainer reinforced, synthetic, black, for wire, package of 2	2	
5	162-80088-25	Ring insulators, small for wooden constructions	25	
	162-80099-25	Ring insulators, small with M5 thread, for metal constructions	25	
6	162-85608	All-round connection kit, INOX, with crocodile clip, red and black, length 150 cm	1	

PU=Packing Unit Price incl. VAT

MINIGARD GARDEN FENCE KIT

This set is mainly intended for keeping cats out of your garden. But vice versa, it also keeps your own cat in the garden.

This complete kit for fences consists of the MiniGard II Hobby mains unit supplemented with 16 insulator supports with 2 insulators each, 4 small ring insulators, 4 plastic wire tensioners, 100 metres of fence wire, 5 metres of high-tension cable, earth stake and a tester.

The standard materials supplied are sufficient for approx. 26 - 32 mtr of fence fence.

Depending on the length of the fence, you can buy additional individual components such as supports, ring insulators or wire separately.



Photo	Art. nr.	Description	PU	€ price/PU
1	161-82550	Minigard garden fence kit for 26 - 32 m fence	1	
Loose or additional parts:				
3	133-36122-05	High tension cable, coil with 5 m, flexible 7 strand inox core	5	
	133-36122-10	High tension cable, coil with 10 m, flexible 7 strand inox core	10	
4	162-39010	Wire, black, 100 m ca 2 mm, 12 PE wires	100	
5	162-39034-4	Wire connectors for thin wire	4	
	162-80088-4	Ring insulators, small for wooden constructions, per 4 pcs	4	
6	162-80150-zw	Strainer reinforced, synthetic, black, for wire	1	
7	162-80198	Earth stake, short, 45 cm with connector	1	
	162-80110-4	Insulator brackets for wooden fences	4	
8	162-85455	Tester 8-O-lite, testing indication in 8-levels	1	
	162-80063-4	Click insulators, black, for posts of ø 6 mm	4	

PU=Packing Unit Price incl. VAT

POSTS



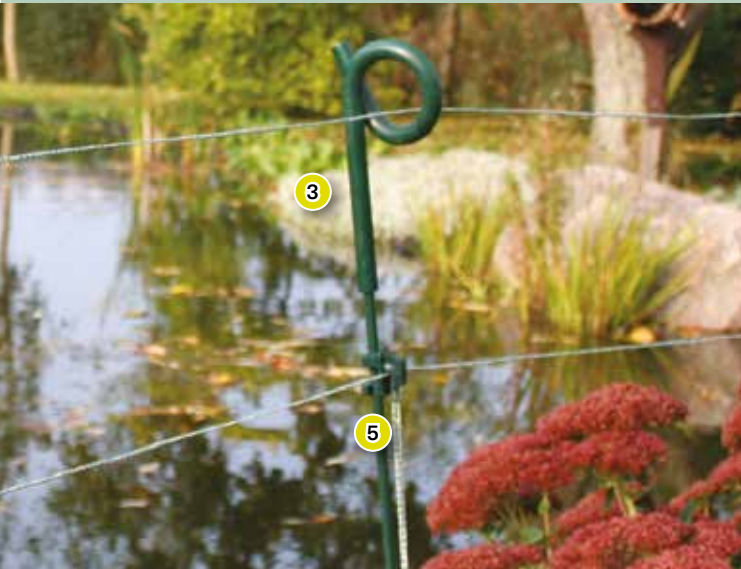
1. BLACK POLY POST

Black post, with built-in insulators for all kind of wires.



2. FIBREGLASS GARDEN POSTS

A solid, discrete fibreglass post with a special synthetic foot for a stable mounting. The foot also takes care of less growth of weed around the post. Simplifying the maintenance of the garden. The black color takes care of a discrete placing of the fence. Is supplied with 1 click-on insulator (162-80063-25).



3. GREEN PIGTAIL POST

Dark green pigtail post, 8 mm thick. Extra insulators are available, art.nr. 162-80062-25.



4. GREEN GARDEN POST

7 mm thick green garden post. Ideal for a hardly visible placing of a fence. Delivered with two green click-on insulators. Art.nr. 162-80064-25

Photo	Art. nr.	Description	PU	€ price/PU
1	162-80341-10	Posts, synthetic, black 75 cm, budget only per 10	10	
2	162-80310-10	Garden posts, fibreglass, black, 50 cm	10	
3	162-80106	Pigtail post, green 105 cm ø 8 mm, powder coated	1	
4	162-80103-10	Garden posts, green, 100 cm 7 mm, incl. 2 click insulators, per 10	10	
5	162-80062-25	Click insulators, green, for posts of ø 8 mm	25	
6	162-80063-25	Click insulators, black, for posts of ø 6 mm	25	
7	162-80064-25	Click insulators, green, for posts of ø 7 mm	25	

1 - 2. INSULATOR BRACKET

Practical bracket designed for mounting on walls and wooden fences. Standard delivered with two insulators.

Single insulators, art.nr. 162-80063-25, are per bag of 25 pcs available.

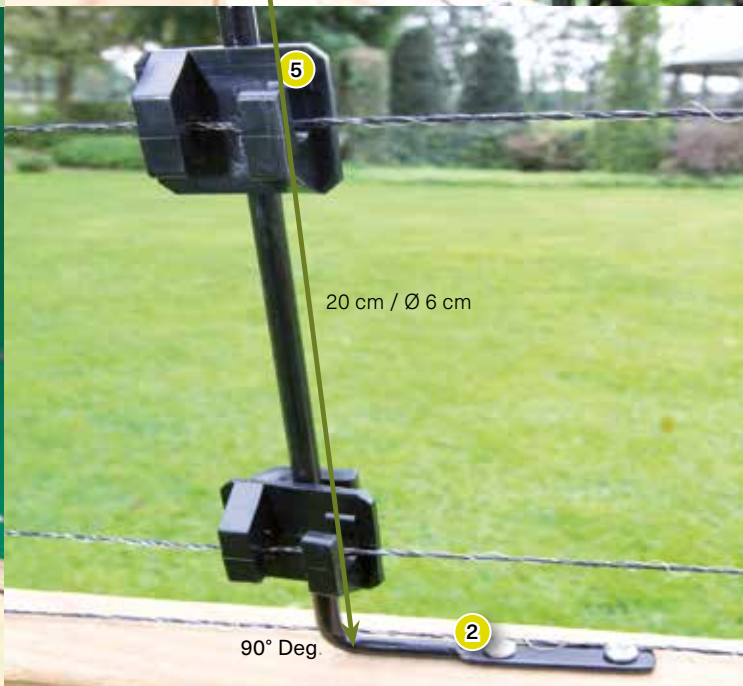
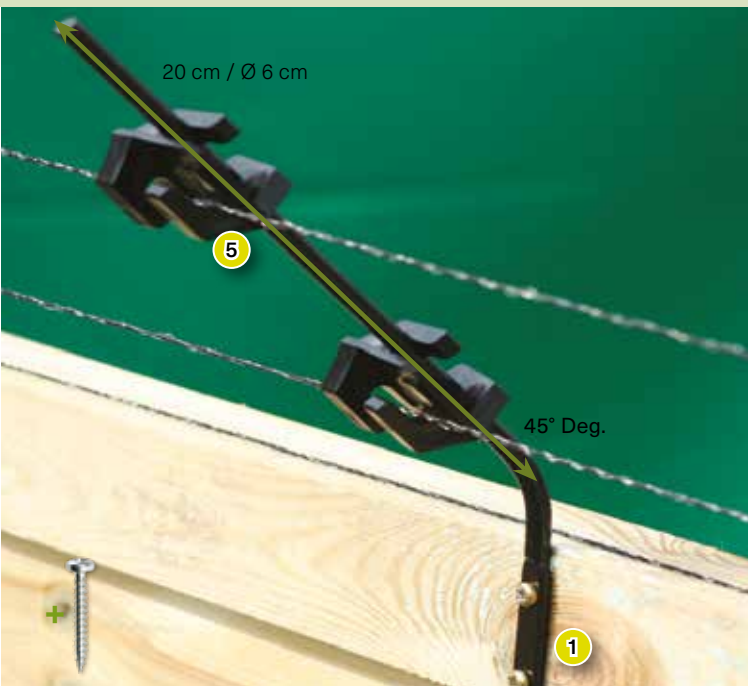
4 brackets per pack.

3. INSULATOR BRACKET FOR CORNERS

For leading a wire on a fence through the corners of a garden, this is an ideal bracket. Packed per 2 pcs.

4. INSULATOR BRACKET FOR VARIES

Ideal for leading a wire in varies on a wall or fence, keeping the wires in line with the fence itself. Packed per 2 pcs.



A wooden fence or wall insulates the electric fence wire from the earth. If a cat or other animal climbs against the fence, it won't feel anything. This problem can be solved very easily, by mounting an earth wire on top of the wooden fence or wall that is connected with the earth pole of the fencer.

The same problem can occur in a fence around a pond, where the edge of the pond is surfaced with e.g. marble stone. Also in this case you can solve the problem by using an earth return wire between the two "hot" wires on the posts.

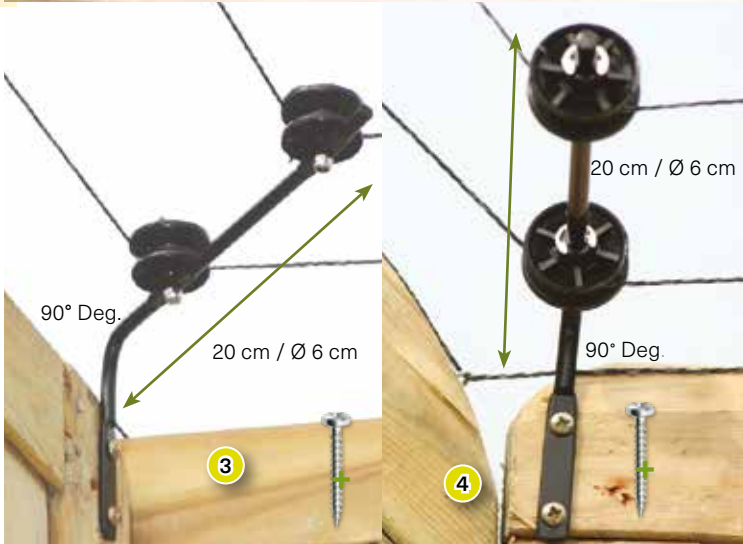


Photo	Art. nr.	Description	PU	€ price/PU
1	162-80110-4	Insulator brackets for wooden fences	4	
2	162-80163-4	Insulator bracket, right-angle incl. 2 insulators, per 4	4	
3	162-80111-2	Insulator brackets for corner support for edges	2	
4	162-80112-2	Insulator brackets, support for varies	2	
5	162-80063-25	Click insulators, black, for posts of Ø 6 mm	25	
	162-80063-4	Click insulators, black, for posts of Ø 6 mm	4	

PU=Packing Unit Price incl. VAT

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ACCESSORIES



1

Ø 2 mm

↓ 0,12 Ω/mtr

⚡ Weerstand / resistance / widerstand Ohm/mtr

3*0,20 inox
1*0,25 Cu

← → 40 KG

1. BRAIDED POLY WIRE

Thin, green poly wire for a camouflaging mounting on a fence round a pond or border.



2

Ø 3,5 mm

↓ 0,03 Ω/mtr

⚡ Weerstand / resistance / widerstand Ohm/mtr

6*0,30 inox
3*0,25 Cu

← → 150 KG

2. POLY WIRE

Sturdy black wire with a very good conductivity. Suitable for long fences and mechanical heavy circumstances.

- 200 mtr 162-39127
- 500 mtr 162-39126
- 1.000 mtr 162-39124



3

Ø 2 mm

7,60 Ω/mtr ↓

⚡ Weerstand / resistance / widerstand Ohm/mtr

3*0,20 inox

← → 55 KG

3. POLY WIRE

Thin, wire, an effective conductor for fences, walls and around ponds.

- Orange 100mtr 162-39000
- Orange 250mtr 162-39020
- Black 100mtr 162-39010
- Black 250mtr 162-39015



3

Photo	Art. nr.	Description	PU	€ price/PU
1	162-39023	Wire, green 3*0,2niro + 3*0,25Cu 100 mtr	100	
2	162-39126	Wire poly, black, 200 m ±3,5 mm, 30 PE wires + 6*0,3 INOX + 3*0,25cu, breaking strength 150 kg, res. 0,03 Ohm/m	500	
	162-39127	Wire poly, black, 500 m ±3,5 mm, 30 PE wires + 6*0,3 INOX + 3*0,25cu, breaking strength 150 kg, res. 0,03 Ohm/m	200	
	162-39124	Wire poly, black, 1.000 m ±3,5 mm, 30 PE wires + 6*0,3 INOX + 3*0,25cu, breaking strength 150kg, res. 0,03Ohm/m	1000	
3	162-39010	Wire, black, 100 m ca 2 mm, 12 PE wires + 3*0,2 INOX, breaking strength 55 kg, resistance 7,6 Ohm/m	100	
	162-39015	Wire, black, 250 m ca 2 mm, 12 PE wires + 3*0,2 INOX, breaking strength 55 kg, resistance 7,6 Ohm/m	250	
	162-39000	Wire, orange, 100 m ca 2 mm, 12 PE wires + 3*0,2 INOX, breaking strength 55 kg, resistance 7,6 Ohm/m	100	
	162-39020	Wire, orange, 250 m ca 2 mm, 12 PE wires + 3*0,2 INOX, breaking strength 55 kg, resistance 7,6 Ohm/m	250	

PU=Packing Unit Price incl. VAT

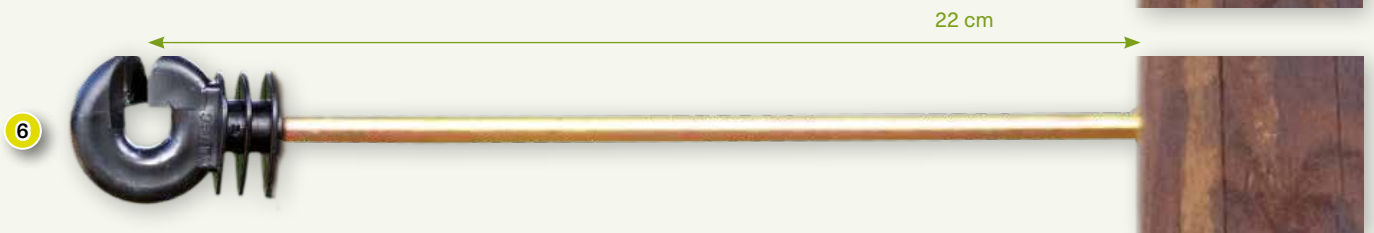
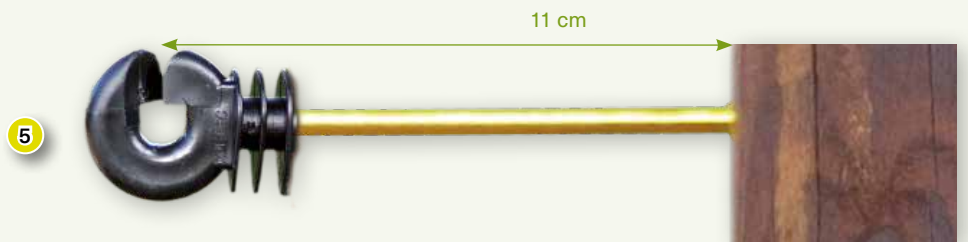
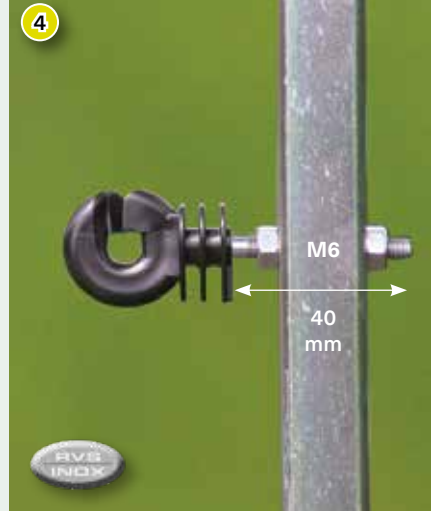
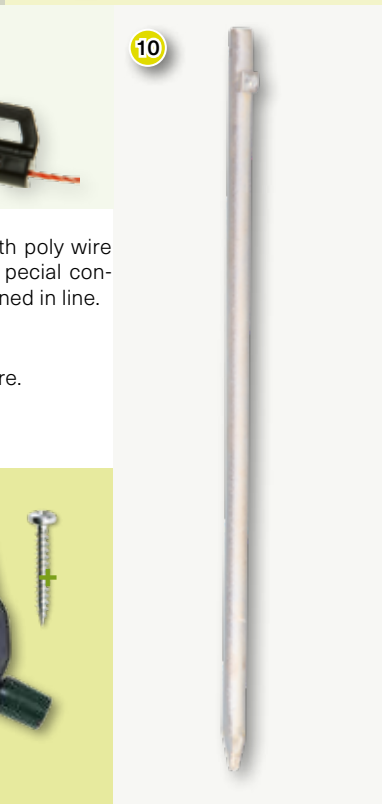
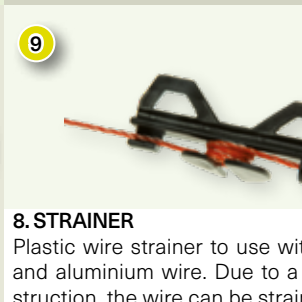
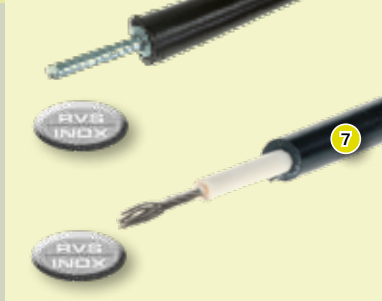
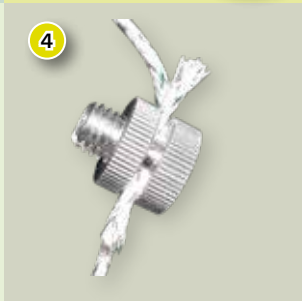
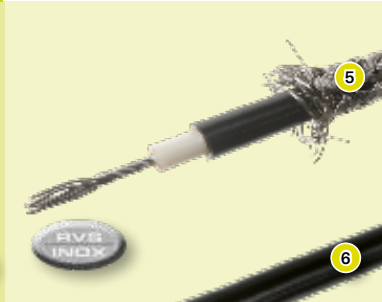


Photo	Art. nr.	Description	PU	€ price/PU
1	162-80063-25	Click insulators, black, for posts of ø 6 mm	25	
	162-80063-4	Click insulators, black, for posts of ø 6 mm	4	
	162-80062-25	Click insulators, green, for posts of ø 8 mm	25	
	162-80064-25	Click insulators, green, for posts of ø 7 mm	25	
2	162-80099-25	Ring insulators, small with M5 thread, for metal constructions	25	
3	162-80088-25	Ring insulators, small for wooden constructions	25	
	162-80088-4	Ring insulators, small for wooden constructions, per 4 pcs	4	
4	162-80506-25	Ring insulators, INOX, with M6 thread, incl. INOX nuts, for metal posts	25	
5	162-80505-20	Ring insulators special, half long 10 cm, for wooden posts	20	
6	162-80503-10	Offset ring insulators, 22 cm for wire/rope on wooden posts	10	
7	162-80508-10	Ring insulator, half long/10 cm with M6, incl. INOX nuts, for metal posts	10	
8	162-80507-10	Offset ring insulators, INOX, 20 cm with M6 thread for wire/rope on metal posts	10	

PU=Packing Unit Price incl. VAT

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ACCESSORIES



1. SCREW TERMINAL
Black, handy to mount/connect HT-cable with poly wire.

2-4. WIRE CONNECTORS
Double zinc plated & INOX
Single zinc plated & INOX

5. GROUND CABLE
High-voltage cable with stainless steel braid. Connection cable which can be placed underground and is protected against mechanical influences by its stainless steel braid. The braid can also be used as an earth lead/rod.

6. HIGH VOLTAGE CABLE
HT-cable with a solid core of 1.6 mm. Insulation up to 2.000 V.

7. HIGH VOLTAGE CABLE (PER 10 MTR)
To connect a fencer to the fence, we recommend the use of high voltage cable. This cable has an insulation value of 12.000 Volt and therefore very suitable to lead this cable through a wall, connecting the fencer.

10. EARTH STAKE 45 cm
When you want to have the maximum use of your electric fencer, then earthing is of crucial importance. Without earthing the system can never work properly. The earthing has to be as such that a very low resistance is present.

11. LIGHTNING ARRESTOR
Fence energisers are sensitive for lightning. With the proper prevention measures, the chance of possible damage to the energisers can be reduced.

See page 41 for more information and installation instructions.

12. SWITCH
Ideal for connecting two circuits with each other. It has two outlets for connecting two different circuits.

See page 41 for more information and installation instructions.

8. STRAINER
Plastic wire strainer to use with poly wire and aluminium wire. Due to a special construction, the wire can be strained in line.

9. STRAINER
Simple strainer for thin poly wire.

Photo	Art. nr.	Description	PU	€ price/PU
1	162-36127	Screw terminal, 1 - 6 mm ²	1	
2	162-39099-4	Connectors for wire up to 4 mm, INOX, with wing nuts	4	
3	162-39093-4	Connectors, single for wire up to 4 mm, INOX, with wing nuts and connection tab	4	
4	162-39034-4	Wire connectors for thin wire	4	
5	162-36124-10	Ground cable, HT-cable with INOX braid, 10 m	10	
6	162-36126-20	High-voltage cable with solid zinc plated 1,6 mm core, 20 m	20	
7	133-36122-05	High tension cable, coil with 5 m, flexible 7 strand inox core	5	
	133-36122-10	High tension cable, coil with 10 m, flexible 7 strand inox core	10	
8	162-80150-2wt	Strainer reinforced, synthetic, white, for wire, package of 2	2	
	162-80150-2zw	Strainer reinforced, synthetic, black, for wire, package of 2	2	
9	162-80176-2	Wire strainer for thin synthetic wire	2	
10	162-80198	Earth stake, short, 45 cm with connector	1	
11	162-80175-1	Lightning diverter	1	
12	162-85470	Switch, high voltage, for connecting sections, two exit terminals	1	

PU=Packing Unit Price incl. VAT



Photo	Art. nr.	Description	PU	€ price/PU
1	162-80019	Gate handle KOLTEC, black, INOX	1	
2	162-79082-4	Gate handle anchors KOLTEC, 3-way, INOX	4	
3	162-79084-4	Gate handle anchors KOLTEC, 3-way, INOX, for metal posts M6	4	
4	162-79080-4	Gate handle anchors KOLTEC, 2-way, INOX	4	
5	162-39031	Small reel, handy for strip grazing	1	
6	162-85487	Pocket knife - tester Boundary Blade	1	
7	162-39501-4	Signs "Warning electric fence", obligatory along public roads (4)	4	
8	162-39505	Sign "Verboden toegang", only for the Netherlands	1	
9	162-85450-1	Tester, neon, tension indication	1	
10	162-85455	Tester 8-O-lite, testing indication in 8-levels	1	
11	162-85477	Fence control light	1	
12	162-85460	Tester for electric fences, wireless	1	
13	162-85449	Tester, indication tension measuring, without reference wire. Excl. batteries	1	

PU=Packing Unit Price incl. VAT



KOLTEC is presented more and more in shops and fairs.

On the shelves with KOLTEC products you'll find most components which are needed for building an electric fence. On fairs and markets KOLTEC can be represented by the wagon as shown below. By which the use of the materials is demonstrated in a practical way.





Scan this QR-code with your smartphone and go directly to our website www.koltec.eu.

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Your KOLTEC re-seller:

With this catalogue all the old price lists and catalogues are no longer valid.

Printed with reservation of errors and omissions.

KOLTEC BV reserves the right to change, update and improve specifications and prices without notice.

Design & photos: H.de Langen Woerden, The Netherlands

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YOU CAN FIND ALL OUR PRODUCTS ALSO AT

www.koltec.eu

Art.nr.: 200-02011



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