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Electric Fencing 2013

Your Electric Fence Experts



AKO AGRARTECHNIK

AKO Electric Fencing Modular System

Our modular system is your best advisor! Informative and wellarranged product presentation makes choosing a lot easier:

- **The characteristics that determine the decision to buy are listed on the packaging and shelf labelling**
- **For more information there are free catalogues and leaflets available**
- **We offer selected product samples in special displays for a better "grasping" of quality and design.**




AKO AGRARTECHNIK
AKO AGRARTECHNIK
Power Profi NDi digital
Power Profi NDi digital
Power Profi N
Mobil Power AN
Compact Power
Power Profi N
Duo Power
Duo Power
Duo Power
Power Station BD digital
Mobil Power AD digital
Eco Power B plus
Compact Power
Power Station BD digital



Dear Customers,

Thank you for your interest in our company and our pasture fence products.

AKO-Agrartechnik GmbH & Co. KG is one of the market leaders in Europe and has been renowned for 70 years as a manufacturer of pasture fence energisers. We are a company with an international mindset and we are part of the global Kerbl group of companies. As the German inventor of the pasture fence energiser, we offer broad-based expertise for your livestock in fields and paddocks. Our innovative electric fence energisers are produced in Germany at our site in Wangen, in the Allgäu region. We are very proud to be one of the few companies in our industry who really do still produce equipment that is „Made in Germany".

This guarantees maximum process control and quality for you - our customers. We are keen for you to help us expand our market position in Europe further in order to ensure we can deliver state-of-the-art technology that takes account of all safety aspects. All of our pasture fence energisers are produced and tested in accordance with the latest update A11/A12 to safety standard EN60335-2-76. By complying rigidly to the latest standards, we are able to create comprehensive and safe solutions for any application.

Our first-class service and the superlative quality of our tried-and-tested products make us a partner you can rely on.
Our broad-based sales department means we can always give you the name of one of our specialist retailers near you.
Join us as we shape the future of pasture technology and profit from our numerous market innovations.
Be inspired by our new catalogue, our website and our podcasts featuring new products and installation instruction in our online movies collection.

With best wishes,

You AKO team

Description of our symbols regarding packaging units:

1 / 4 / 16

- The first number (1) refers to the sales unit (unit or package). This means that the price quoted refers to this number (basis of quotation)
- The second number (4) informs you about the smallest package unit
- The third number given above (16) is the next packaging unit.

SB

6 pieces per blister pack

25 pieces per bag

5 pieces per bunch

90 pieces per bucket

Sales-Promotional packaging! The figure indicated here tells you the number of pieces in the respective packaging.
The price refers to following packaging units:

MA

3

Minimum order
This number (3) denotes the smallest packaging unit. This is the minimum order quantity.

10

The number indicated here tells you the number of pieces per master package (in pieces or in blister packs).

200

Pallet unit
This number (15) denotes the quantity on a single-product pallet.

€

Recommended retail price The price given in the catalogue is valid for one piece or one sales package



Sales Promotions 2013	**02 - 03**
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AKO AGRARTECHNIK

Compact Power B 240 multi

plus free fence tester

AKO Multi-device of the year 2013

- highly effective 9/12/230 Volt universal device for fences with light vegetative growth
- incl. 12 Volt connecting cable (Art.No. 44641/011) and 230 Volt mains adapter (Art.No. 371016)
- incl. free fence tester (Art.No. 441222)
- output energy 0.24 J
- more detailed information on p 34





Free fence tester, connecting cable and mains adapter included!

ref. no.		€
372028	1	

Duo Power X 4000

AKO Duo-device of the year 2013

- DUO device with extremely high output
- ideal for use with strong animals and to keep wild animals out
- for fence systems with heavy vegetative growth
- On/Off-switch
- fence monitoring indicator
- separate battery monitoring indicator
- output energy 3.00 J
- more detailed information on p 16



20 % benefit

2 in 1



(12 V and 230 V connection cable included in scope of supply - but 12 V battery not included)

ref. no.		€
372131	1	

High Energy Saline 9 V Dry Battery

with carrying strap

- "more power for less money"
- inexpensive, powerful alternative to alkaline batteries
- extended service life
- zinc-carbon technology
- ideal for all common standard 9 V battery units
- rated voltage 8.4 Volt



20 % benefit

ref. no.	description	l x w x h			€
44220	9 V, 75 Ah	165 x 115 x 110 mm	1/4	320	
44221	9 V, 150 Ah	190 x 130 x 160 mm	1/4	192	





Sales Promotions 2013

20 % benefit





75 EDX Ring Insulators per Bucket + Free Screwdriver

- 75 ring insulators incl. end-to-end zinc-plated support
- 1 free screwdriver
- with new self-drilling woodscrew

ref. no.			€
443269/753E	1	96	

FREE Screwdriver

20 % benefit





TopLine Plus Fence Wire Twin Pack

- 2 x 250 m
- 4 years UV warranty
- 5 x higher conductivity thanks to the use of our TriCOND wire material. With TriCOND, you can operate 5 x longer fences or "transport" 5 x more current to the animal contact point. 5 x more safety for humans and animals!

ref. no.			€
449129	1/6	120	

TopLine Plus Fence Tape Twin Pack

- width 20 mm
- 2 x 250 m
- 4 years UV warranty
- excellent conductivity and durability thanks to the new TriCOND wires
- increased fracture load thanks to strong monofilament wires

ref. no.			€
449552	1/6	72	

AKO AGRARTECHNIK

Cavallo Energiser Range

Cavallo D 22

- reliable 9 Volt battery unit for portable use for shorter fence lines with little vegetation
- choice of two power levels
- visual battery monitoring indicator
- allows for 12 V battery operation - higher performance
- battery saving mode
- incl. ground rod 30 cm



ref. no.		€
372730	1	

New!

Cavallo D 44

- efficient 9 V battery unit for medium fencing systems
- choice of two power levels
- visual battery monitoring indicator
- 12 Volt operation also possible - increased performance
- weather-proof casing
- incl. ground rod 30 cm



ref. no.		€
372732	1	

New!

Cavallo N 1001

- efficient mains energizer for short fences with little vegetation growth
- very popular for strip grazing and paddock fencing for horses
- easy to handle
- operation control light
- 3 years warranty
- power consumption:5.0 watts



ref. no.		€
372701	1	

New!

Cavallo N 2002

- highly efficient all-round power supply unit
- can be used with light to medium vegetative growth
- all purpose for standard fences
- equipped with two terminals (high/low)
- visual fence condition control and separate visual earthing control (faults show through red flashing light)
- microprocessor controlled
- power consumption 5.0 watts/hour



ref. no.		€
372702	1	

New!

Cavallo Energiser Range



Cavallo X 1

- DUO unit for short fence systems with low vegetation
- 1.1 joule charging energy
- 10,000 Volt max.
- function controll display
- battery monitoring indicator



New!

ref. no.		€
372721	1	

Cavallo X 2

- DUO unit for normal fence systems with low vegetation
- 2.8 joule charging energy
- 11,500 Volt max.
- On/Off-switch
- fence monitoring indicator
- separate battery monitoring indicator



New!

ref. no.		€
372722	1	

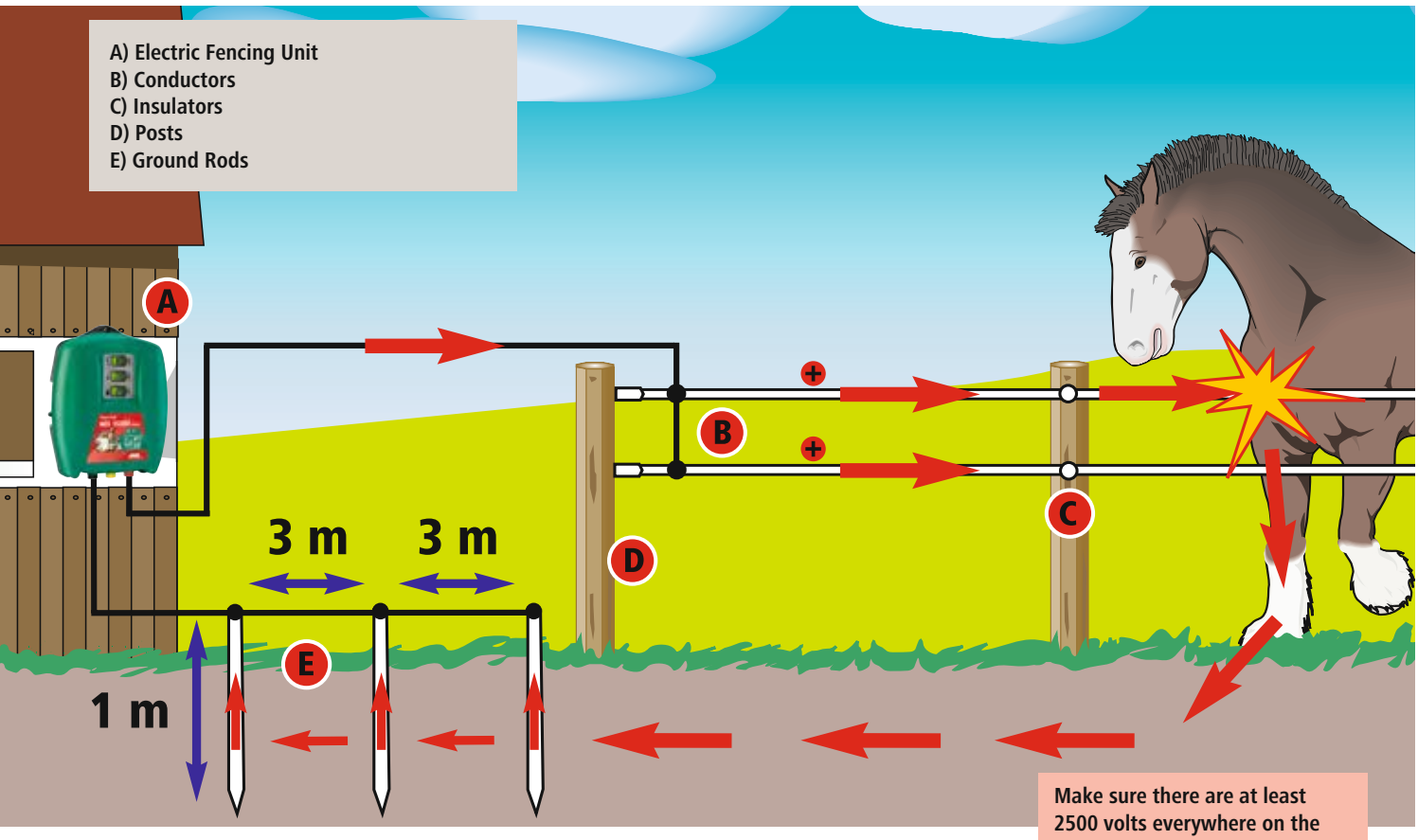
2 in 1



(12 V and 230 V connection cable included in scope of supply - but 12 V battery not included)

type	ref. no.	max.	No Load	500 Ω	In	Out max.		theor.	max.	max.	max.	50 m	1m
D 22 - 9 V	372730	9,400 V	9,400 V	2,600 V	0.21 J	0.17 J	13-19 mA	7.0 km	3.0 km	1.0 km	0.3 km	-	-
D 44 - 9 V	372732	9,600 V	9,600 V	3,100 V	0.54 J	0.34 J	24-36 mA	12.0 km	4.0 km	2.0 km	0.5 km	-	-
N 1001	372701	10,900 V	9,000 V	4,500 V	1.60 J	1.10 J	5,0 W	35.0 km	15.0 km	5.0 km	2.0 km	3	1
N 2002	372702	12,000 V	9,300 V	5,600 V	2.80 J	2.00 J	5,0 W	70.0 km	20.0 km	5.5 km	2.2 km	6	2
Cavallo X 1	372721	10,000 V	8,700 V	4,200 V	1.10 J	0.70 J	53-80 mA	25.0 km	10.0 km	4.0 km	1.5 km	2	1
Cavallo X 2	372722	11,500 V	8,400 V	4,700 V	2.80 J	2.00 J	21-176 mA	48.0 km	15.0 km	4.5 km	2.0 km	5	2

This is how an electric fence system works!



The electric fence system consists of:
A) An electric fencer generating regular energy impulses.
B) One or more wires that transport electricity (although these do not necessarily have to form a closed loop).
C) Insulation is performed by insulators preventing the power from diverting into the ground.
D) Permanent or mobile posts that can be used as required.
E) The earthing of the electric fencer which should be driven as deep as possible into moist soil.
If the animal touches the wire, a current circuit is closed, i.e. the electric current flows through the animal and the earth back to the unit. The animal consequently receives an unpleasant, although harmless, electric shock and retreats. An electric fence system of this kind is used successfully to pen animals in and also to keep other animals out.

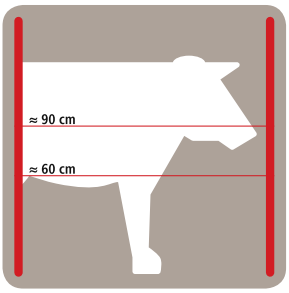
Earthing
Earthing is an important part of the electric circuit. To make sure the current flows back without hindrance through the soil to the fencer, there has to be the best contact possible between ground rod and soil (soil with hardly no moisture conducts inadequately). When driving in the ground rod look for moist spots, i.e. the ground rod must be of sufficient length to reach deepsub-soil moisture.

Fence Voltage and Impulse Energy
The peak of an electric impulse generated by the fencer is called fence-voltage. High voltage is necessary to create a proper channel between fence wire and body of the animal. There has to be a minimum voltage of about 2500 volts. (For thick-coated animals we recommend a minimum voltage of 4000 volts). Now the current (impulse energy) can flow through this channel. This means that the efficiency of shock depends on the amount of impulse energy (voltage alone does not hurt!). The more stubborn an animal is the more power should be used to enclose or keep off. Furthermore, the need of more impulse energy rises according to the length of the fence line and its possible loss (e.g. vegetation). The more power is delivered by a fencing unit, the higher its power consumption. With regard to the impulse energy we recommend to make a careful choice especially when battery or rechargeable battery operated energizers are concerned.

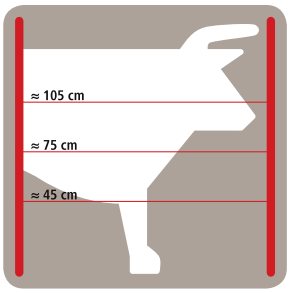
Fence Resistance
Apart from sufficient impulse energy you also need highly efficient conductors to achieve the maximum shock possible and tomake sure that the energy is delivered with minimum loss to the animal without fading away before. Line resistance is a measure to rate conductivity. It is stated in Ohm/Meter. The smaller the value, the more conductive the material. The longer the fence line, the more conductive the material has to be. Excellent materials have a resistance of 0.3 Ω/m, poor ones over 4 Ω/m. Researches have shown that there has to be a compromise between high conduction mostly achieved by copper wires and long service life (stainless steel wires of low conductivity). Combined materials (conductors made of copper and stainless steel wires) offer here the Optimum (Premium Line).

How many wires in which height?

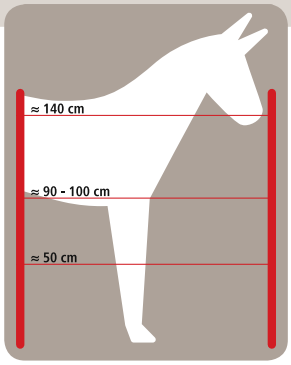
Man has always reflected on the question how to permanently contain or keep out various animal species. Allowing the animal to feed on naturally growing food without constant observation has been primarily achieved by electric fencing. Every conceivable domesticated breed can be kept in place by an electric fence. This overview will give you a general idea and help you to plan and install your electric fencing system.



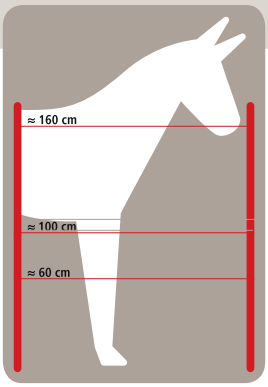
Electric Fence for Dairy Cows
Recommendation: 10 mm tape, polywire



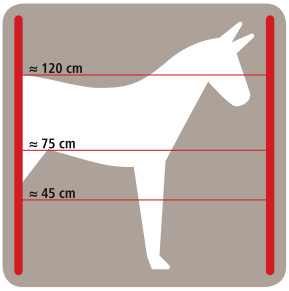
Electric Fence for Bulls, Cattle and Suckler Cows with Calves
Recommendation: 10 mm tape, polywire



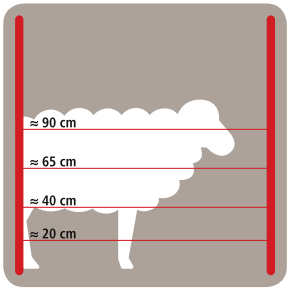
Electric Fence for Big Horses
Recommendation: rope or tape up to 40 mm



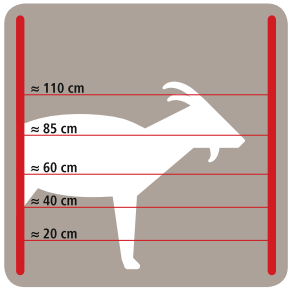
Electric Fence for Jumping Horses
Recommendation: Rope, Wide Tape up to 40 mm



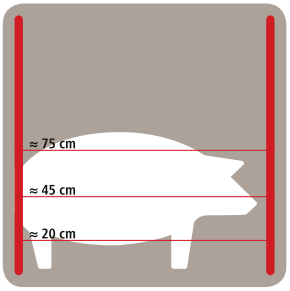
Electric Fence for Small Horses
Recommendation: 10 mm tape, rope



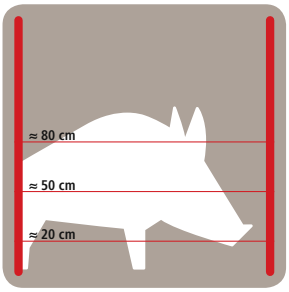
Electric Fences for Sheep
Recommendation: sheep netting, electric wire, polywire



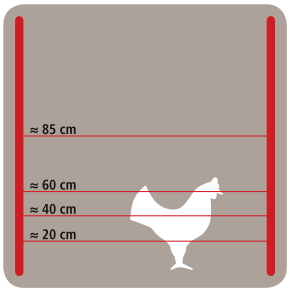
Electric Fences for Goats
Recommendation: electric wire, polywire



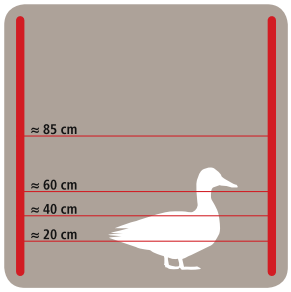
Electric Fences for Pigs
Recommendation: 10 mm tape, polywire



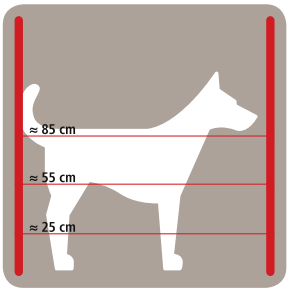
Deterring Wild Boars
Recommendation: AKO Wild animal deterrent net, 10 mm tape, polywire



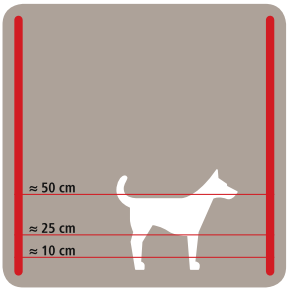
Electric Fences for Hens
Recommendation: poultry netting, polywire



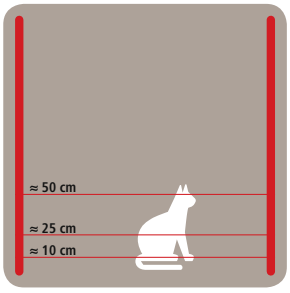
Electric Fences for Geese
Recommendation: poultry netting, tape, polywire



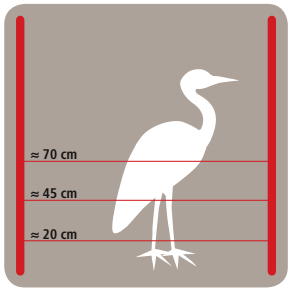
Electric Fences for Tall Dogs
Recommendation: Hobbyset, polywire



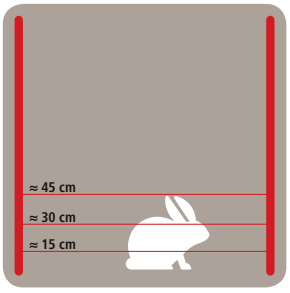
Electric Fences for Small Dogs
Recommendation: Hobbyset, polywire



Electric Fences for Cats
Recommendation: Hobbyset, polywire



Electric Fence to deter Herons
Recommendation: Hobbyset, polywire



Electric Fence for Rabbits
Recommendation: rabbit netting, polywire

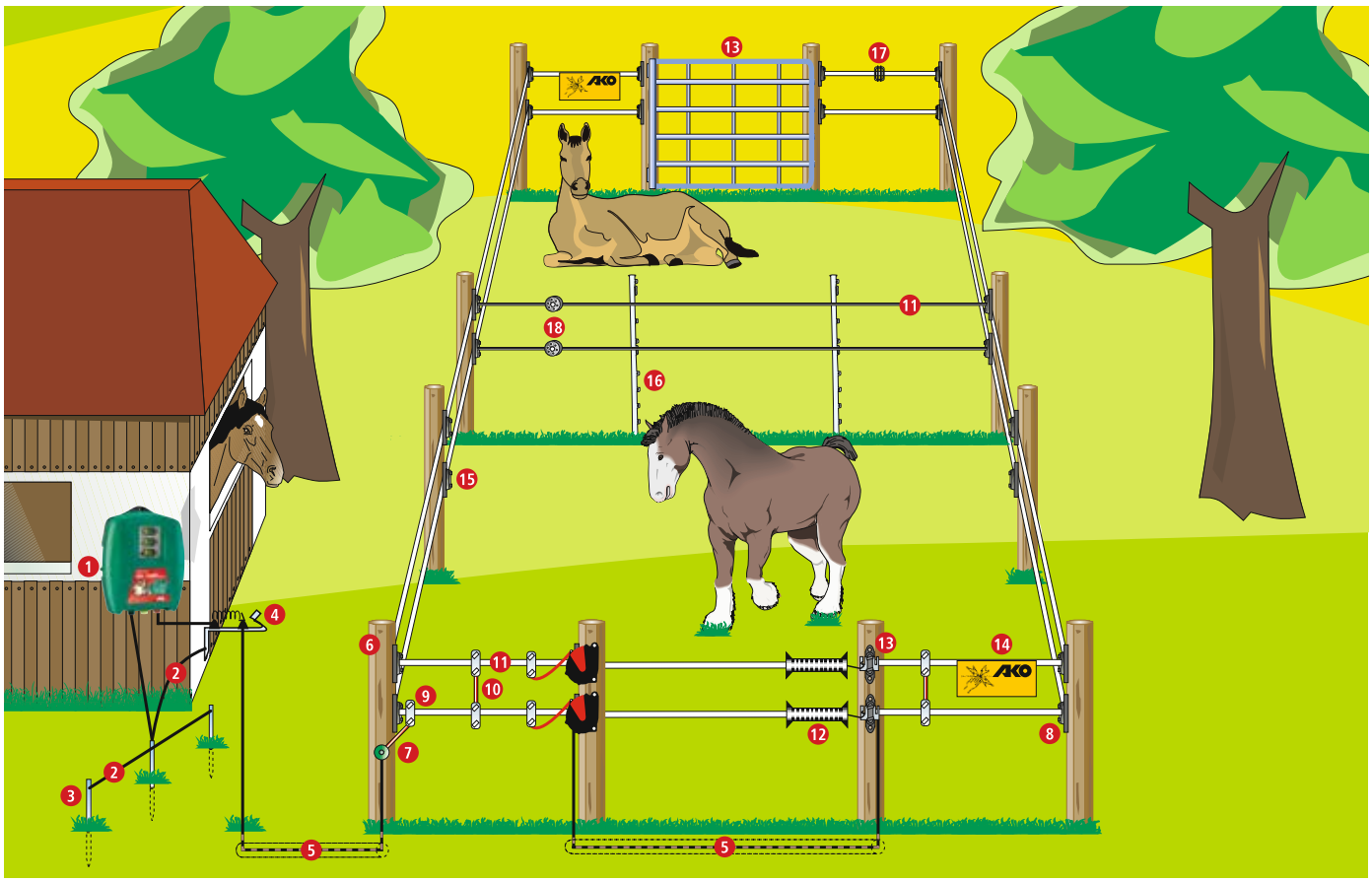
The specifications like fence heights are only approximate and need to be adapted to the animal species you wish to fence in. Please observe regional regulations if applicable!

AKO AGRARTECHNIK

Explanation of symbols

Symbols	Description	Unit	Explanation
	Grounding	Piece	In order to enable electricity to flow freely from the ground to the device, optimal contact should be ensured between the earthing rod and soil (dry soil is a poor electricity conductor). The earthing rod (which must be galvanised) should therefore be driven into a damp area, or the length of the earthing rod should be measured to ensure that deeper, damper soil layers are reached. The recommended number of earthing rods depends on the power class of the device.
	Resistance	Ohms	The following resistance can be identified in a fence system: Earthing resistance => should be as low as possible Conductive material resistance => displayed in Ohm/metres. The smaller this value, the better the material's conductivity. The conductivity requirements of the material used increase with the length of the fence. The best materials have a resistance smaller than 0.25 Ω/m. Isolator resistance => should be as high as possible
	Max. Voltage	Volts	This voltage is reached with a low fence charge.
	Voltage in Open Circuit	Volts	Voltage when no fence system is connected to the electric fencer device.
	Voltage at 500 Ohms	Volts	Voltage at a fence charge of 500 Ohm.
	Stored Energy	Joules	Energy absorbed by device. The electric fender efficiency ratio yields the relevant discharge energy value for the user.
	Max. Output	Joules	Maximum energy transmitted from the device to the fence system. This pulse is also identified as shock strength.
	Output Energy	Joules	Minimum energy transmitted from the device to the fence system. This can be reached through a fence output with reduced power or through selecting the lowest power level of an electric fencer device.
	Theor. Fence Length VDE (2000 V)	km	Concerning fence systems in accordance with VDE, only theoretical values are given, which, as a result of various influences (fence flora, weather and soil conditions) cannot be reached in practice.
	Max. Fence Length with Varying Vegetative Growth	km	Flora on the fence has a considerable influence on the max. fence length for an electric fencer device. The more vegetation on the fence, the higher the fence charge will be, thus reducing the max. fence length. The fence length indications refer to highly conductive wire material and connectors, good isolators and an optimal earthing system!
	Approx. Number of Electrifiable Nets	Piece	For 230 V and 12 V devices, the maximum number of 50 m lines to be used is given.
	Voltage Supply 230 V	Volts	Devices with power supplies (230 V) have an unlimited protection duration. These are available in all necessary power classes and are the best solution for power provision to long fences. Even in the event of heavy vegetation, sufficient energy is supplied to the fence.
	Voltage Supply 12 V or 12 V Solar	Volts	12 -volt battery chargers are the ideal solution for long fences or fences with considerable amounts of fauna in the event that no power supply is available. The discharge energy can be compared to the power supply units. Rechargeable 12-volt wet cells are used as a source of power. A useful addition are solar modules, which are offered in a range of power classes and transform solar energy into electricity.
	Voltage Supply 230 V or 12 V	Volts	This type of devices combines the unlimited protection duration of the 230 V devices with the mobility of the powerful 12 V devices.
	Voltage Supply 9 V	Volts	The 9-volt dry battery devices are characterised by their excellent mobility, coupled with a long battery life. They are ideal for short fences with moderate flora if no power supply is available.
	Voltage Supply 2 x 1.5 V	Volts	3 V devices are mobile and easy to handle, and are suitable for fences without vegetation, such as in gardens or horse-training paddocks.
	Power Consumption	mA	The duration of an electric fencer device can be calculated from the power consumption along with battery or accumulator capacity.

Electric Fencing - How it's done!



1 Energizer for Mains- or Battery Operation (p. 11 - 37)

2 Earting Cable (p. 44)

3 Ground Rod (p. 44)

4 Lightning Protection (p. 59)

5 Underground Cable, high-voltage resistant (p. 44)

6 Permanent Fencing Posts made of wood and metal (p. 76-79)

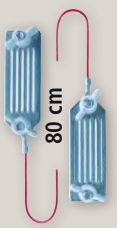
7 Cut-Out Switch (p. 59)

8 Corner Insulator (p. 83)

9 Fence Connecting Cable (p. 60-61)



10 Tape Connecting Cable (p. 60-61)



11 Tape, Rope, Polywire or Wire (p. 45-58)

12 Gate Handle Systems (p. 91-97)

13 Gate Handles (p. 99)

14 Warning Sign (p. 59)

15 Line Insulator (p. 80-90)

16 Portable Fencing Post made of plastic or metal (p. 71-77)

17 Special Connector (p. 62-65)

18 Wire/Tape Strainer (p. 114)

Overview of electric fences

		Unit	page	max.	Out max.	max.	max.	max.											
230 V Mains Energizers		N 700	36	10000 V	0,55 J	5 km	1,0 km	0,5 km	•		•		•		•	•	•	•	•
		N 1100	15	12300 V	1,00 J	10 km	2 km	1,0 km	•		•		•		•	•	•	•	
		N 1600	14	11000 V	2,00 J	15 km	3 km	1,5 km	•		•		•		•	•	•	•	•
		N 3000	14	11300 V	3,0 J	25 km	4,5 km	2 km	•	•	•	•	•	•					
		N 5000	14	10000 V	4,80 J	45 km	8 km	4,5 km	•	•	•	•	•	•					
		Ni 7000	15	11200 V	7,00 J	70 km	15 km	7,5 km	•	•	•	•	•	•					
		NDi 6500	13	11000 V	6,50 J	60 km	12 km	6 km	•	•	•	•	•	•					
		NDi 10000	13	11600 V	10,00 J	80 km	18 km	9 km	•	•	•	•	•	•					
		NDi 15000	13	11700 V	14,50 J	100 km	22 km	12 km	•	•	•	•	•	•					
Duo Energizers		X 1000	17	10000 V	0,70 J	5 km	1,5 km	0,5 km	•		•				•	•	•	•	•
		X 2000	17	10000 V	1,20 J	8 km	2,5 km	1,0 km	•		•		•		•	•	•	•	•
		X 3000	17	12000 V	2,30 J	20 km	5 km	2,0 km	•		•	•	•	•					
		X 4000	16	11400 V	3,00 J	30 km	10 km	4 km	•	•	•	•	•	•					
12 V Battery Energizers		AN 500	36	8300 V	0,50 J	4,0 km	0,8 km	0,3 km	•		•		•		•	•	•	•	•
		Savanne 1000	23	8000 V	1,00 J	6,5 km	2,0 km	0,7 km	•		•		•		•	•	•	•	•
		Savanne 2000	23	8500 V	2,30 J	20 km	5,0 km	2,0 km	•		•	•	•	•	•				•
		A 1200	22	10700 V	1,40 J	10 km	5,0 km	1,5 km	•		•	•	•		•	•	•	•	•
		AD 2000	21	10500 V	2,10 J	20 km	8,0 km	3,0 km	•	•	•	•	•	•		•			•
		AD 3000	21	10800 V	3,00 J	30 km	10 km	4,0 km	•	•	•	•	•	•	•				
		AN 3100	24	11400 V	3,00 J	30 km	10 km	4,0 km	•	•	•	•	•	•					
		AN 5500	24	11600 V	4,80 J	40 km	15 km	6,0 km	•	•	•	•	•	•					
9 V Battery Energizers		B 40	36	7500 V	0,04 J	0,2 km	--- km	--- km	•		•							•	•	•
		B 140	34	8400 V	0,16 J	2,0 km	0,5 km	--- km	•		•				•		•	•	
		B 240 multi	34	8800 V	0,24 J	3,0 km	0,6 km	--- km	•		•				•	•	•	•	•
		B 250 plus	35	10500 V	0,25 J	3,0 km	0,7 km	--- km	•		•				•	•	•	•	•
		B 500 plus	35	9000 V	0,50 J	9,0 km	6,0 km	1,8 km	•		•		•		•	•	•	•	•
		BD 300	33	9900 V	0,30 J	6,0 km	4,0 km	1,5 km	•		•				•	•	•	•	•
		BD 400	33	10000 V	0,40 J	8,0 km	5,5 km	1,7 km	•		•				•	•	•	•	•
		BD 600	33	10300 V	0,55 J	10 km	7,0 km	2,0 km	•		•		•		•	•	•	•	•
solar		S 200	26	8000 V	0,20 J	2,0 km	0,5 km	--- km	•		•							•	•	

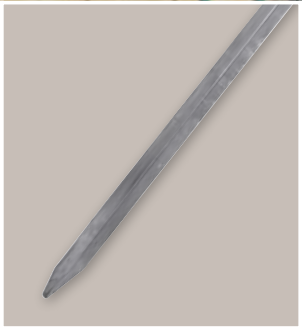


AKO's Power Stations for Highest Fence Requirements

Mains operated energizers (230 volts) have no limit in tending animals. They come in all performance categories and are the best solution for providing long fence lines with the necessary energy. Even if there is heavy vegetation they are able to provide the fence line with sufficient energy.

Made in Germany











230 V Mains Energizers

Extremely effective power supply units designed for very robust animals, vegetation and very long fences. Together, all the digital AKO displays enable constant, detailed monitoring of the whole fencing system.



Fitted with two fence output terminals (max/min)



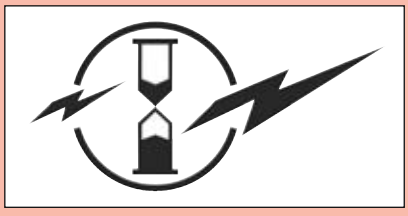
Monitoring: Fence output voltage
Fence output voltage display in kilovolts.
This enables identification of even the smallest changes in the fence's condition.



Monitoring: Earth voltage
Earth voltage display in kilovolts. The lower the displayed value, the better the device's earth connection.



Monitoring: Power consumption
Indicates power consumption in % (25, 50, 75 and 100%).
The smaller the reading, the less power the device is consuming!



The new AKO NDi series complies with the safety standard for electric fences that came into effect on 01/09/2010. According to this standard, the output energy is limited to a maximum of 15 joules. Devices ranging from 5 to 15 joules must be equipped with a power adjustment delay for altered loads and must feature an alarm function. The time delay ensures that there is sufficient time in which to retreat safely from the fence.



However, if there is contact with the fence for a long period of time, the pulse sequence is slowed significantly and an audio-visual alarm is triggered.



Bi-colour flashing LED lights support the corresponding LCD display value.
Green flashing = displayed value is acceptable
Red flashing = the value does not meet minimum requirements. Please fix faults!

230 V Mains Energizers

- manufactured in accordance with the new European safety standard EN60335
- the delayed power adjustment makes touching the fence safer for people and animals
- the fence is constantly monitored by an alarm function, which triggers an alarm and slows the pulse sequence if the fence is touched for an extended period of time
- very low power consumption in normal operating mode, making it very eco- and climate-friendly
- much safer and more energy efficient in comparison to conventional devices, thanks to AKOtronic pulse technology, and more secure for animals even when vegetation is thick thanks to the extremely high fence voltage
- two illuminated digital displays for output voltage and earth potential, plus additional two-coloured flashing LEDs
- with two fence outputs (high/low)
- microprocessor controlled
- Made in Germany
- 3 years guarantee

Made in Germany



Power Profi NDi 6500 digital

- high-capacity power supply unit with intelligent power adjustment => AKOtronic pulse technology
- designed for robust animal species such as cows, sheep, horses and for deterring wild animals; for long fences with heavy vegetative growth
- power consumption 7.0 watts

ref. no.		€
372806	1	



Power Profi NDi 10000 digital

- extremely high-capacity power supply unit with intelligent power adjustment => AKOtronic pulse technology
- 3-years warranty
- a third additional illuminated display provides information about current consumption
- power consumption 13.0 watts

ref. no.		€
372810	1	



Power Profi NDi 15000 digital

- ultra high-capacity power supply with intelligent power adjustment that uses the maximum permissible limit values => AKOtronic pulse technology
- highest-capacity AKO power supply unit for extremely long fences, heavy vegetation and very robust animals
- a third additional illuminated display provides information about current consumption
- power consumption 18.0 watts

ref. no.		€
372815	1	

type	ref. no.	max.	500 Ω	In	Out max.	Out min.	theor.	max.	max.	max.	50 m	1m	2m
NDi 6500	372806	11,000 V	7,600 V	8.20 J	6.50 J	0.50 J	180.0 km	60.0 km	12.0 km	6.0 km	20	3	2
NDi 10000	372810	11,600 V	8,200 V	14.00 J	10.00 J	0.55 J	300.0 km	80.0 km	18.0 km	9.0 km	25	4	2
NDi 15000	372815	11,700 V	8,800 V	20.00 J	14.50 J	0.60 J	350.0 km	100.0 km	22.0 km	12.0 km	30	5	3

230 V Mains Energizers

- manufactured in accordance with the new European safety standard EN60335
- fitted with two fence outputs (high/low)
- visual fence voltage display and separate visual earthing display (a flashing red light indicates a fault)
- microprocessor controlled
- Made in Germany
- 3 years guarantee

Made in Germany



Power Profi N 1600

- highly efficient power supply unit
- can be used with light vegetative growth
- for universal use with standard fence; for horses, cows, dogs, kats
- power consumption 3.8 watts

ref. no.		€
372160	1	

Power Profi N 3000

- efficient power supply unit
- can be used with light to medium vegetative growth
- for universal use with standard fences; for horses, cows, sheep, goats, hens
- power consumption 6.0 watts

ref. no.		€
372803	1	

Power Profi N 5000

- highly efficient power supply unit
- our all-round product can be used with medium to heavy vegetative growth; for horses, cattle, sheep, goats and for deterring wild animals
- power consumption 7.0 watts

ref. no.		€
372805	1	

type	ref. no.	No Load	500 Ω	In	Out max.	Out min.	theor.	max.	max.	max.	50 m	1 m	2 m
N 1600	372160	11,000 V	4,500 V	2.60 J	2.00 J	0.50 J	60.0 km	15.0 km	3.0 km	1.5 km	4	2	1
N 3000	372803	11,300 V	4,600 V	4.70 J	3.00 J	0.50 J	80.0 km	25.0 km	4.5 km	2.0 km	8	3	1
N 5000	372805	10,000 V	7,500 V	7.00 J	4.80 J	0.55 J	140.0 km	45.0 km	8.0 km	4.5 km	15	3	2

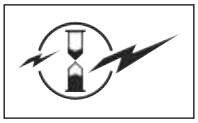
230 V Mains Energizers

- Ni 7000 manufactured in accordance with the new European safety standard EN60335
- very low power consumption in normal operating mode => eco- and climate-friendly
- with two fence outputs (high/low)
- three flashing LEDs for output voltage, earth potential and power consumption
- much safer and more energy efficient in comparison to conventional devices, thanks to AKOtronic pulse technology, and more secure for animals even when vegetation is thick thanks to the extremely high fence voltage
- microprocessor controlled
- Made in Germany

Made in Germany

Power Profi Ni 7000

- extremely powerful mains unit intelligent power adjustment => AKOtronic pulse technology
- designed for robust animal species such as cows, sheep, horses and for deterring wild animals; for long fences with heavy vegetative growth
- the delayed power adjustment makes touching the fence safer for people and animals
- the fence is constantly monitored by an alarm function, which triggers an alarm and slows the pulse sequence if the fence is touched for an extended period of time
- power consumption 9.0 watts





ref. no.		€
372807	1	

Compact Power N 1100

- efficient power supply unit for short fences and areas with little vegetative growth
- especially suitable for smaller fields and paddocks
- easy to use
- operation control light
- 3 years guarantee
- power consumption 5.0 watts



ref. no.		€
372109	1	

type	ref. no.	max.	500 Ω	In	Out max.	Out min.	theor.	max.	max.	max.	50 m	1m	2m
Ni 7000	372807	11,200 V	7,900 V	10.00 J	7.00 J	0.55 J	230.0 km	70.0 km	15.0 km	7.5 km	20	4	2
N 1100	372109	12,300 V	4,500 V	1.50 J	1.00 J	-	30.0 km	10.0 km	2.0 km	1.0 km	3	1	-

DUO Units 2 in 1

Two power input options available - 230 V mains supply or 12 V battery units. That means, the unit can be used for permanent fencing with 230 V mains supply and also for mobile fencing with 12 V primary or rechargeable batteries. As a standard, the devices are delivered with a 12 V supply cable (incl. stainless steel clamps), with 230 V mains adapter and with fence and earth connecting leads. Casing is splash water resistant and allows an outdoor installation without any problems. When the unit is operated with 230 V the mains adapter should be installed indoors.

Made in Germany

Duo Power X 4000

- DUO device with extremely high output
- ideal for use with strong animals and to keep wild animals out
- for fence systems with heavy vegetative growth
- On/Off-switch
- fence monitoring indicator
- separate battery monitoring indicator
- output energy 3.00 J





Using the 230 V mains adapter: For operations above 230 V, the mains adapter must be connected in a protected circuit in a dry room.



Using the mobile 12 V battery on a fence post: The housing is protected against splash water and is therefore suitable for use outside. The battery is placed under the device directly on the ground.

AKO Duo-device of the year 2013

ref. no.		€
372131	1	

New!

20 % benefit

2 in 1





(12 V and 230 V connection cable included in scope of supply - but 12 V battery not included)

Solar unit suitable for DUO Power-X and Savanne

- includes galvanised holder for metal battery box 44656 and terminals for direct connection to 12 V battery (metal battery box and device not included in scope of supply)
- self-adjusting - when dimensioning is correct
- 10 years warranty

375151 for X 1000 and Savanne 1000
375251 for X 2000, X 3000, X 4000 and Savanne 2000





ref. no.	description	width	height	depth		€
375151	15 w solar panel	37,5 cm	42,0 cm	2,5 cm	1	
375251	25 W solar panel	37,5 cm	65,0 cm	2,5 cm	1	

DUO Units (12 V / 230 V)

- latest electric fencing technology
- optimized consumption thanks to energy saving mode
- full discharge protection with 12 V operation
- microprocessor controlled
- 230 V mains adapter and 12 V connection cable included in scope of supply
- 3-years warranty
- Made in Germany

Made in Germany



can also be used for game protection

2 in 1



(12 V and 230 V connection cable included in scope of supply - but 12 V battery not included)

Duo Power X 1000

- DUO unit for short fences
- Function control display device
- battery warning display

ref. no.		€
372125	1	

Duo Power X 2000

- DUO-Power for normal fence systems with low vegetation
- ON/OFF switch
- fence control display
- separate battery control display

ref. no.		€
372126	1	

Duo Power X 3000

- DUO-Power with high output power for standard fence systems - also with vegetation
- ON/OFF switch
- fence control display
- separate battery monitoring indicator

ref. no.		€
372127	1	

type	ref. no.	max.	No Load	500 Ω	In	Out max.		theor.	max.	max.	max.	50 m	1 m
X 4000	372131	11,400 V	9,300 V	5,500 V	4.50 J	3.00 J	42-300 mA	75.0 km	30.0 km	10.0 km	4.0 km	12	3
X 1000	372125	10,000 V	8,000 V	4,100 V	1.00 J	0.70 J	53-80 mA	20.0 km	5.0 km	1.5 km	0.5 km	2	1
X 2000	372126	10,000 V	8,000 V	4,400 V	1.70 J	1.20 J	67-138 mA	30.0 km	8.0 km	2.5 km	1.0 km	4	2
X 3000	372127	12,000 V	8,500 V	4,900 V	3.20 J	2.30 J	45-290 mA	60.0 km	20.0 km	5.0 km	2.0 km	7	2

Portable Power Stations built to the latest technology

12 Volt rechargeable Battery Units are the best solution for long runs of fence or fences with vegetative growth, when there is no mains available. The strength of shock is comparable to that of mains units. For power supply 12 Volt wet rechargeable batteries are used. For turning solar energy in electric current it is quite useful to add solar panels to your fence system, which are available in various performance categories.

Made in Germany



AKO POWERtronic technology

for Mobil Power AD 2000 digital and AD 3000 digital

general
The technology for high-power fence units with flexible power supply - 12 V battery, 9 V dry battery, solar panel connection with built-in charge regulator and mains connection with external mains unit.

The intensity of the shock is adapted automatically to all kinds of fence conditions. The maximum shock intensity can be ideally adjusted to the type of animal concerned, so that adequate tending safety of the animal can always be achieved.

function
With its intelligent microprocessor-controlled regulator, **POWERtronic** significantly increases the unit's running time. In good fence conditions, only 20 % of the maximum current consumption is needed to reach a fence voltage of up to 10 kV. If the fence load increases, the output energy and therefore the current consumption are increased enough to ensure that the voltage at the fence cannot fall below 4 kV. Only once the maximum set energy is reached can the fence voltage fall further in the event of a further increase in fence load, however this is indicated by the illumination of the red warning light which is easily visible even from a distance.

Operation
The unit is easy to operate; there is only one operating button. The clear digital display shows all of the key operating data.

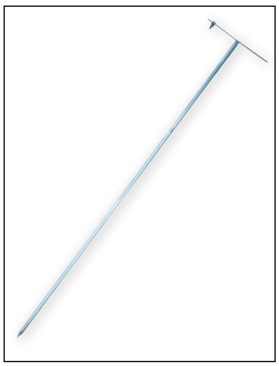
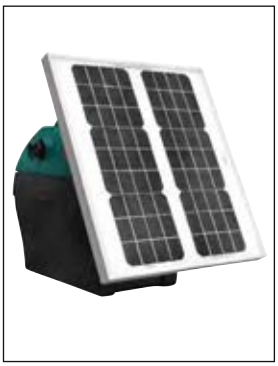
In normal mode, the exact fence output voltage is displayed for each pulse in kiloVolts. Turning the setting knob allows you to precisely set the maximum output energy. While making any adjustments, the current energy level is shown on the display.

Once the operating button is pressed, the battery voltage is shown accurate to one tenth of a Volt. This means that the battery status can be monitored reliably at all times.

The function of the built-in solar regulator is also displayed with a symbol. This regulator prevents both over-charging and deep-discharging of the battery and therefore ensures an optimised service life.

Production at AKO based on the latest market demands
The **POWERtronic** units comply with the latest European safety standard EN 60335-2-76 A12. This means that the automatic increase in energy in the event of load changes only occurs after a delay time of around 15 seconds - enough time for the human or animal touching the fence to break contact with it before more powerful pulses can be delivered. This guarantees a higher level of safety.

Versatile, intelligent, robust and safe - AKO **POWERtronic** technology.





12 Volts Rechargeable Battery Units

Robust, portable and extremely powerful...

A new generation of units with unbeatable advantages: operates on 12 volts rechargable battery and on 9 volts dry battery, both allow for solar assistance, also for 230 volts mains operation.
Produced in compliance with the new European safety standard EN 60335.

Made in Germany



NEW - now with carrying handle



Fence condition control:
Output voltage reads in kilovolts. Records the slightest change on the fence line.

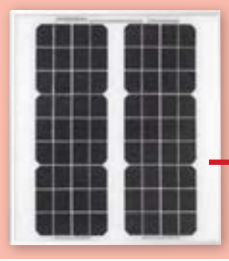


Variable output adjustment:
normal use 1 - 15
extreme conditions 16 - 20



Battery voltage: Displays the current battery voltage in V. The 12 V battery should be connected to a minimum voltage of 12 V - greater than 12.5 V would be ideal.

With large battery box (280 x 188 x 235 mm). Wet battery, dry battery and mains adapter not included.





Can also be operated with 230 V via mains adapter

Solar operation possible in combination with a 12 V wet battery





12 Volt Wet Batteries



optional 9 V dry battery ALKALINE

12 Volts Rechargeable Battery Units

Mobil Power AD 2000 digital

- extremely powerful 12 Volt battery unit for mobile use, long fences with vegetation and powerful animals
- with 12 Volt full discharge protection
- digital display reads out output voltage, power stages and battery condition
- two separate LEDs for fence condition and battery condition control
- manual turn switch (1 – 20) adjusts output energy steplessly – this makes power input adjustable to adapt more efficiently to fencing conditions
- allows for alternative operation with 9 Volt dry battery
- can be operated via 230 V mains adapter
- microprocessor controlled - energy saving mode
- with integrated solar charge control



ref. no.		€
372201	1	

NEW - now with carrying handle

ref. no.	description		€
371012	Mains Adapter	1	



Mobil Power AD 3000 digital

- very powerful 12 Volt rechargeable battery unit for portable use and long fence lines with vegetative growth and sturdy animals
- with 12 Volt full discharge protection
- digital display reads out output voltage, power stages and battery condition
- two separate LEDs for fence condition andbattery condition control
- manual turn switch adjusts output energy steplessly – this makes power input adjustable to adapt more efficiently to fencing conditions
- allows for alternative operation with 9 Volt dry battery
- can be operated via 230 V mains adapter
- microprocessor controlled - energy saving mode
- with integrated solar charge control



ref. no.		€
372291	1	

NEW - now with carrying handle

ref. no.	description		€
371012	Mains Adapter	1	

Can also be used to deter wild animals



type	ref. no.	max.	No Load	500 Ω	In	Out max.		theor.	max.	max.	max.	50 m	1 m	2 m
AD 2000/12 V	372201	10,500 V	9,600 V	5,200 V	3.00 J	2.10 J	17-220 mA	55.0 km	20.0 km	8.0 km	3.0 km	6	3	2
AD 2000/9 V	372201	9,500 V	8,000 V	3,900 V	0.75 J	0.50 J	17-70 mA	12.0 km	5.0 km	3.0 km	0.5 km	-	1	1
AD 3000/12 V	372291	10,800 V	9,800 V	6,000 V	5.70 J	3.00 J	17-290 mA	90.0 km	30.0 km	10.0 km	4.0 km	12	3	2
AD 3000/9 V	372291	9,800 V	9,000 V	4,000 V	0.75 J	0.50 J	17-70 mA	12.0 km	5.0 km	3.0 km	0.5 km	-	1	1

12 Volts Rechargeable Battery Units



Mobil Power A 1200

- all purpose, very powerful 12 Volt rechargeable battery unit for portable use
- with 12 Volt full discharge protection
- allows for alternative operation with 9 Volt dry battery
- can be operated via 230 V mains adapter
- two separate LEDs for fence condition and battery conditioncontrol
- manual turn switch (1 – 10) adjusts output energy steplessly – this makes power input adjustable to adapt more efficiently to fencing conditions
- microprocessor controlled - energy saving mode



NEW - now with carrying handle



standard output: level 1 - 7
extreme conditions: level 8 - 10

ref. no.		€
372121	1	

ref. no.	description		€
371012	Mains Adapter	1	



type	ref. no.	max.	No Load	500 Ω	In	Out max.		theor.	max.	max.	max.	50 m	1m	2m
A 1200/12 V	372121	10,700 V	9,000 V	4,400 V	2.10 J	1.40 J	15-150 mA	40.0 km	10.0 km	5.0 km	1.5 km	4	2	1
A 1200/9 V	372121	8,500 V	7,300 V	3,400 V	0.70 J	0.48 J	15-65 mA	12.0 km	5.0 km	3.0 km	0.5 km	-	1	-

12 Volts Rechargeable Battery Units

- manufactured in accordance with the new European safety standard EN60335
- the latest device technology - micro processor-controlled
- devices include a galvanised metal box
- Optimised power consumption thanks to a power saving circuit
- 12 V full discharge protection
- separate battery monitoring indicator
- fence monitoring indicator
- can be operated using solar power
- 3 years warranty
- Made in Germany



Internal dimensions approx. 295 x 200 x 250 mm suitable for batteries with max. 85 Ah (battery not included in scope of supply)

Made in Germany





Mobil Power Savanne 1000

Includes metal box

- effective 12 V device for short fencing systems with little vegetative growth - for horses, cattle and even small animals such as dogs, cats and poultry
- 1.5 joule charging energy

ref. no.		€
372751	1	

Mobil Power Savanne 2000

Includes metal box

- 12 V device with high output power for normal fencing systems, even with heavier vegetative growth
- for horses, cattle and sheep, but can also be used to deter wild animals
- 3.2 joule charging energy

Can also be used to deter wild animals

ref. no.		€
372752	1	

type	ref. no.	max.	500 Ω	In	Out max.		theor.	max.	max.	max.	50 m	1 m	2 m
Savanne 1000	372751	8,000 V	4,200 V	1.50 J	1.00 J	65-135 mA	25.0 km	6.5 km	2.0 km	0.7 km	3	2	1
Savanne 2000	372752	8,500 V	4,900 V	3.20 J	2.30 J	45-290 mA	60.0 km	20.0 km	5.0 km	2.0 km	7	3	2

12 Volts Rechargeable Battery Units

- manufactured in accordance with the new European safety standard EN60335
- 2 power levels
- low power consumption thanks to energy saving mode
- with battery condition control (red LED flashes, when battery reaches about 40 % of its remaining capacity)
- with 12 Volt full discharge protection
- with optical fence condition control
- with On/Off-switch
- 12 V battery connector made of stainless steel
- allows for solar assistance – in addition connects through mains adapter (Ref. No. 371012) to 230 Volt mains supply
- Made in Germany
- 3 years guarantee

Made in Germany







Mobil Power AN 3100

- very powerful 12 Volt rechargeable battery unit for extreme conditions. Runs also on very large 12 Volt rechargeable batteries without causing any problems

ref. no.		€
372311	1	



Mobil Power AN 5500

- our most powerful 12 Volt rechargeable battery unit for the toughest jobs, for long fence lines or fences with heavy vegetative growth. Runs also on very large 12 Volt rechargeable batteries without any problems

ref. no.		€
372550	1	

ref. no.	description		€
371012	Mains Adapter	1	



type	ref. no.	max.	No Load	500 Ω	In	Out max.		theor.	max.	max.	max.	50 m	1 m	2 m
AN 3100 / Stufe 2	372311	11,400 V	9,300 V	5,600 V	4.60 J	3.00 J	78-280 mA	75.0 km	30.0 km	10.0 km	4.0 km	12	3	2
AN 3100 / Stufe 1	372311	7,400 V	6,100 V	3,700 V	2.00 J	1.25 J	38-120 mA	30.0 km	8.0 km	2.5 km	1.0 km	4	2	1
AN 5500 / Stufe 2	372550	11,600 V	10,400 V	5,800 V	7.40 J	4.80 J	85-450 mA	120.0 km	40.0 km	15.0 km	6.0 km	20	3	2
AN 5500 / Stufe 1	372550	7,600 V	6,300 V	3,900 V	3.40 J	2.25 J	41-210 mA	60.0 km	23.0 km	9.0 km	3.5 km	7	3	2

Anti-Theft-Box

- electrifiable metal battery box made from galvanised steel
- battery box recommended both for mobile power devices AN 3100, AN 5500, and also for DUO-X devices
- external dimensions: H 37.5 cm x W 37.5 cm x D 33.5 cm
- space for battery unit max. 37 cm x 36.5 cm x 11 cm
- space for one 12 V battery max. 36.5 cm x 21.5 cm x 21 cm
- lockable, lock included in scope of supply
- delivery without device and battery
- recommended solar modules: 375151, 375251.375401, 375256

including solid 100 cm long assembly / ground rod

ref. no.		€
44650	1	



Metal Battery Case

- recommended battery case for Mobil Power units AN 3100, AN 5500 and DUO-X-units
- space for rechargeable batteries up to 110 -Ah
- optimal for application with solar units
- internal dimensions of battery compartment: width 36 cm x height 32 cm x depth 21 cm
- delivery without device and battery
- recommended solar modules: 375151, 375251.375401, 375256

ref. no.		€
44656	1	



Anti-Theft-Set for Metal Battery Case

- mechanical anti-theft box fits metal box 44656

Set includes:
- spiral earth (27 cm) rod with screw-in assistance and securing bolt
- padlock
- erection bolts with locking nut

- makes theft of electric fence energiser with battery carrying case much more difficult
- delivery without battery box



ref. no.		€
44652	1	



Safety tip! Thieves no longer get a look in… With the new battery box with soil anchor… and the "whole thing" can be locked!

Use the power of the sun!

Solar panels prolong the operation time of the 12 V rechargeable battery, regardless of the fence insulation, the output level of the unit, the battery condition and the weather.

- **reduced maintanance for rechargeable battery systems**
- **longer battery service life due to constant charging (discharge reduction)**

Made in Germany

Sun Power S200

The Sun Power S 200 makes the sun work for you …… because you use the Number One energy of the future, that doesn't cost a dime: Solar Energy!! The 12 V gel battery of the S 200 charges automatically by a built-in solar panel. This makes you independent, saves your time and guarantees perfect tending safety.



- compact, portable and very efficient unit with built-in 2 watts solar panel for small fences with little vegetation
- maintenance-free during the entire grazing season
- supplied power adaptor recharges gel battery or allows for direct mains operation
- gel battery equipped with full discharge and overcharge protection by built-incharging control
- clever power-saving method by efficient energy recuperation
- special AKO cooling function to protect battery and electronic unit
- optical control of fence condition and optical charge control
- 3 years guarantee (not on 12 volts battery)

Technical datas:
open circuit voltage: 8.000 V
voltage at 500 ohms: 2.500 V
stored energy: 0.25 J
max. output energy: 0.20 J
theoretical fence length: 6 km
max. fence length without vegetation: 2 km
max. fence length with little vegetation: 0.5 km



- moulded recess for easy carrying
- built-in connector for mains operation or external charing of the gel battery
- 230 volts power adapter included

ref. no.		€
370020	1	

Solar Panels suitable for Mobil Power AN

- galvanized bracket for metal battery box 44656 and connection cable to the unit included (metal battery box is not included in delivery)
- self-adjusting - when dimensioning is correct
- 10 years warranty

375256 for AN 3100
375401 for AN 3100 and AN 5500


375256



10 years warranty

ref. no.	description	width	height	depth		€
375256	25 w solar panel	37,5 cm	65,0 cm	2,5 cm	1	
375401	45 w solar panel with charging control	37,5 cm	111,0 cm	3,0 cm	1	

Solar Panels suitable for Mobil Power A and AD

- includes galvanised holder and connecting cable for the device (device not included)
- self-adjusting - when dimensioning is correct
- 10 years warranty

375156 für A 1200
375256 for AD 2000 digital and AD 3000 digital

10 years warranty


375156


375156

ref. no.	description	width	height	depth		€
375156	15 w solar panel	37,5 cm	42,0 cm	2,5 cm	1	
375256	25 w solar panel	37,5 cm	65,0 cm	2,5 cm	1	

Solar unit suitable for DUO Power-X and Savanne

- includes galvanised holder for metal battery box 44656 and terminals for direct connection to 12 V battery (metal battery box and device not included in scope of supply)
- self-adjusting - when dimensioning is correct
- 10 years warranty

375151 for X 1000 and Savanne 1000
375251 for X 2000, X 3000, X 4000 and Savanne 2000

10 years warranty


375251


375251

ref. no.	description	width	height	depth		€
375151	15 w solar panel	37,5 cm	42,0 cm	2,5 cm	1	
375251	25 W solar panel	37,5 cm	65,0 cm	2,5 cm	1	

Solar kit 8 W

- ecological alternative for 9 V dry battery
- a comparative calculation will be worth it

377010 includes:
1 x solar panel 12 V, 8 watts with holder
1 x gel battery 12 V, 12 Ah incl. charging control
1 x 230 V mains charger
- can be used for Power Station, EcoPower plus and Cavallo 9 V equipment

ref. no.	description		€
377040	Kit 8 watts	1	



Solar Panel 4 w

1 x solar panel 12 V, 4 watts with holder
- can be used for Power Station, EcoPower plus and Cavallo 9 V equipment
- solar module supports or relieves during daylight hours the 9 V battery

When daylight is detected, the battery device disconnects the current from the solar module. The solar module cannot be used to charge the 9 Volt battery.



ref. no.	description		€
377024	solar panel 4 w	1	

Complete set 10% cheaper than buying the parts individually!

These kits include original AKO products for your fence, perfectly matched by an expert. This guarantees perfect operation from the onset after connection to your fence – this we have ensured. And your wallet will be happy because you really save quite a lot of money compared to buying the products individually!

Made in Germany

- **this version is tempting due to its high mobility**
- **a new equipment generation with unbeatable advantages:**
- **operation with 12 Volt rechargeable, 9 Volt dry battery, in each case also possible with solar unit, optionally suitable for 230 Volt connection as well**
- **robust, mobile and extremely powerful**
- **for a description, see the Mobil Power AD digital devices page**

Starter kit Type Mobil Power AD digital

Starter set includes:
- 1 Mobil Power AD digital Unit
- 1 12 V, 85 Ah battery
- 3 mobile earth rods
- 2 earth cables (3 m each)



ref. no.	description		€
441010	Starter Kit AD 2000 digital	1	
441012	Starter Kit Type AD 3000 digital	1	

Starter kit Type Mobil Power AD 2000 digital

with 25 w solar panel

Starter set includes:
- 1 Mobil Power AD digital Unit
- 1 12 V, 85 Ah battery
- 3 mobile earth rods
- 2 earth cables (3 m each)
- 1 25 Watt solar module



ref. no.	description		€
441011	Starter set AD 2000 digital incl. 25 Watt solar module	1	
441013	Starter set AD 3000 digital incl. 25 Watt solar module	1	

Starter kits for Game- + Sheep fences

- **the highest-impulse battery powered equipment for extreme applications!**
- **can easily accommodate very large 12 Volt rechargeable batteries as well**
- **for a description, see the Mobil Power AN devices page**

Starter kit Mobil Power AN

Starter set includes:
- 1 Mobil Power AN Unit
- 1 battery
- 1 battery box
- 3 mobile earth rods
- 2 earth cables (3 m each)



ref. no.	description		€
441014	Starter kit AN 3100	1	
441016	Starter kit AN 5500	1	

Starter kit Mobil Power AN

with solar panel

Starter set includes:
- 1 Mobil Power AN Unit
- 1 battery
- 1 battery box
- 3 mobile earth rods
- 2 earth cables (3 m each)
- 1 solar panel



Montagebeispiel



ref. no.	description		€
441015	Starter set AN 3100 incl. 25 Watt solar module	1	
441017	Starter set AN 5500 incl. 45 Watt solar module	1	

The online electric fence planner

AKO Agrartechnik is offering an entirely new online fence planner at fenceconfigurator.com. This Internet application enables users to put together all the parts they need for an electric fence quickly and correctly - whether they are professionals or occasional users.

1. **Once all the details are entered, the system works out what fence components are needed - from insulators to the electric fence itself. The various items are displayed as images, making it easier to see what you need.**

2. **and 3. The right solution for every animal type. As well as the animal type, other parameters play an important part in fence planning, e.g. fence length or ground cover. These are taken into consideration by fenceconfigurator. com from the start and the user is offered suitable alternatives, leaving the decision up to him/her. He/she is also offered useful recommendations for accessories, e.g. warning signs.**

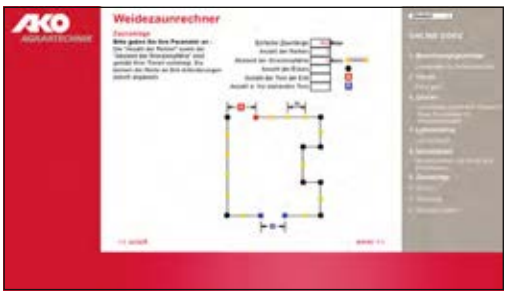
4. **Nothing missing - nothing left over. fenceconfigurator.com delivers a complete materials list for all fence components in the form of an overview with images. With a link forward to a compressed shopping list, you can buy the parts you need, no more and no less. A further option enables you to use the system to work out what you really need for fence renovations or extensions.**















9 Volt Dry Battery Energizers



portable, compact – Technology that convinces!

The 9 Volt dry battery units feature outstanding mobility, associated with a long battery service life. They are ideal for shorter fences with light vegetative growth if no mains connection is available. Alternatively, 12 Volt wet batteries can also be used.

Made in Germany











Large display, low energy consumption and a high degree of safety

The new Power Station electric fencer once again demonstrates our commitment to innovation. The latest Power Station generation is a further milestone in the development of intelligent, state-of-the-art technology, making it yet another contribution to the Power Station success story.
Videos - www.ako-agrar.de

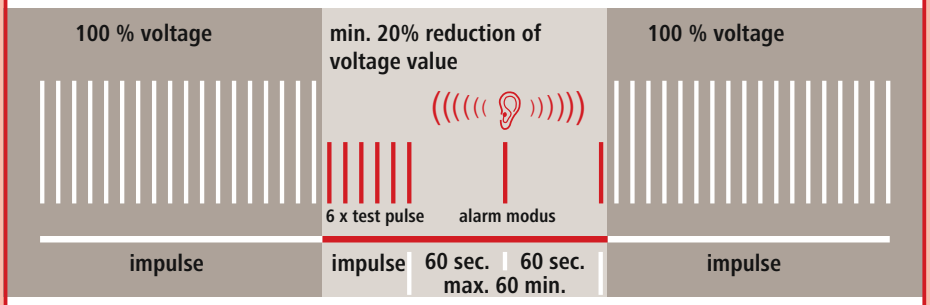
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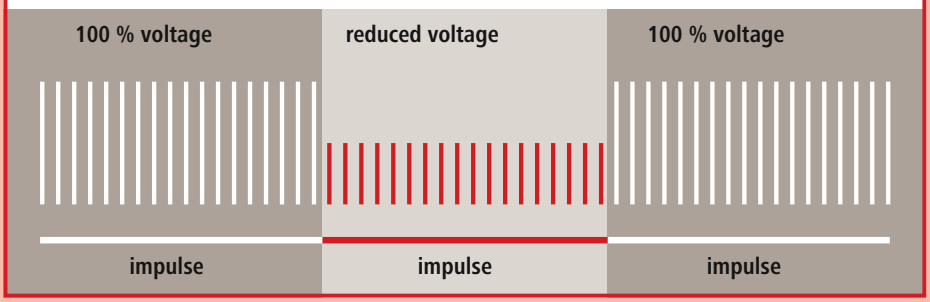
Foal switch provides additional safety



with foal switch



without foal switch





Possible operating condition



Battery supply voltage in volts and battery status symbol



Various performance settings possible

- **E1 - E4:** 4 eco levels with reduced output for normal fence conditions
- **H1 - H4:** 4 further "POWER" levels for more extreme fence conditions
- **AUTO:** Device automatically selects the optimum performance level from E1 to H4

Mains adapter for BD devices



ref. no.		€
371016	1/14	

9 Volt Dry Battery Energizers

- 9 V battery energizers for 9V ALKALINE battery with extreme output power<
- large display on the top of the device provides the user with all the required information at a glance - even in darkness
- row of flashing LEDs provides additional information for monitoring the current condition of the fence
- high output voltage from the lowest level onwards
- eight individually selectable power levels for precise adjustment to fencing conditions and animal species
- automatic mode - minimum power consumption through optimal, automated adjustment of the output power to the length and condition of the fence. This reduces battery consumption to a minimum, while the herding effect remains optimal across a very large range of fence loads
- full discharge protection for 12 V operation
- operation via 230 V power adapter possible
- weather-resistant – specially developed and tested for use in fields
- state-of-the-art microcontroller technology
- incl. ground/support rod and fence/earthconnection cable
- 3 years guarantee
- Made in Germany



Made in Germany

Model versions BD 400 and BD 600 are fitted with a "foal switch" that can be activated as required. If an animal becomes entangled in the fence, a significantly extended pulse interval (60 sec.) ensures that that the animal does not become overly stressed and also increases the likelihood of it freeing itself. The device also emits an acoustic alarm and displays the situation visually on the display.



Power Station BD 300 digital

- the effective 9 V battery energizer with 0.38 joule charging energy
- ideal horse and cattle paddocks with little vegetative growth
- also suitable for small animals such as dogs, cats and poultry

ref. no.		€
372033	1	



Power Station BD 400 digital

- extremely powerful 9 V battery unit (0.51 Joules of charging energy) for medium fences and moderate vegetative growth
- the perfect solution for all animal species, including horses, cattle, goats, chickens and poultry
- with foal switch

ref. no.		€
372034	1	



Power Station BD 600 digital

- extremely powerful 9 V battery unit (0.70 Joules of charging energy) for longer fences and heavier vegetative growth
- also ideal for robust animal species
- the highest level of discharge energy provides optimal herding protection
- strongest 9 V device of its catagory
- with foal switch

ref. no.		€
372036	1	

type	ref. no.	No Load	500 Ω	In	Out max.		theor.	max.	max.	max.
BD 300 max. H4	372033	9,900 V	3,300 V	0.38 J	0.30 J	38 mA	11.0 km	6.0 km	4.0 km	1.5 km
BD 300 min. E1	372033	8,800 V	1,900 V	0.14 J	0.10 J	13 mA	4.0 km	2.5 km	0.6 km	-
BD 400 max. H4	372034	10,000 V	4,000 V	0.51 J	0.40 J	48 mA	14.0 km	8.0 km	5.5 km	1.7 km
BD 400 min. E1	372034	8,800 V	2,500 V	0.22 J	0.18 J	21 mA	5.0 km	3.0 km	0.8 km	0.3 km
BD 600 max. H4	372036	10,300 V	4,300 V	0.70 J	0.55 J	65 mA	18.0 km	10.0 km	7.0 km	2.0 km
BD 600 min. E1	372036	9,500 V	2,600 V	0.27 J	0.21 J	24 mA	6.0 km	3.5 km	1.0 km	0.5 km

9 Volt Dry Battery Energizers



- 9 V battery devices with effective output
- visual check for fence insulation and battery voltage
- choice of two power levels
- easy handling
- 12 V operation possible - with 12 V deep discharge protection
- weather-proof – specially developed and tested for use in fields
- most up-to-date microcontroller technology
- including ground rod and fence / ground connection cable
- 3 years guarantee
- Made in Germany

Made in Germany









Compact Power B 140

- the cost-efficient "beginner's" 9 V battery energizer for mobile use in small paddocks with little vegetation
- ideal for smaller horses and cattle pastures, also suitable for small animals such as dogs and cats

ref. no.		€
350330	1	

Compact Power B 240 multi

plus free fence tester

- highly effective 9/12/230 Volt universal device for fences with light vegetative growth
- incl. 12 Volt connecting cable (Art.No. 44641/011) and 230 Volt mains adapter (Art.No. 371016)
- incl. free fence tester (Art.No. 441222)
- output energy 0.24 J

New!

AKO Multi-device of the year 2013

ref. no.		€
372028	1	

Adaptor Cable

- with 80 cm cable • connects 12 Volt wet rechargeable battery
- for connection to all our 9 V electrical fences

ref. no.	SB	€
44641/011	1	



type	ref. no.	No Load	500 Ω	In	Out max.		theor.	max.	max.	max.
B 140	350330	8,400 V	2,300 V	0.21 J	0.16 J	13-18 mA	3.0 km	2.0 km	0.5 km	-
B 240 multi	372028	8,800 V	3,100 V	0.38 J	0.24 J	18-35 mA	8.0 km	3.0 km	0.6 km	-

The specified values relate to the EXTREME performance level

9 Volt Dry Battery Energizers

• 9 V battery devices with high output • visual check for fence insulation and battery voltage • choice of five power levels • easy handling • extremely robust housing with innovative locking technology • 12 V operation possible - with 12 V deep discharge protection • weather-proof – specially developed and tested for use in fields • most up-to-date microcontroller technology • new easy-to-use supporting rod allows simple, secure positioning and can also be used as an earthing rod • 3 years guarantee • Made in Germany



- the pulse amplitude can be set manually at 5 levels using the rotary switch
- therefore power consumption is controllable and efficiently adaptable to the specific fence conditions
- convenient operation through optimal switch and display arrangement



- separate visual control for battery voltage (LED flashes red when the 9 Volt battery or the 12 Volt rechargeable battery is flat).
- multi-stage fence voltage control by means of coloured LED (green, yellow, red)



Made in Germany



Eco Power B 250 plus

- ideal electric fence unit for small to medium fence lengths without or with light vegetative growth
- ideally suitable for horse paddocks and cow pastures, also suitable for small animals such as dogs, cats and poultry

ref. no.		€
372029	1	



Eco Power B 500 plus

- NEW – increased output power and AUTO mode!
- extremely powerful battery unit for long fences and moderate vegetative growth
- 4 selectable power settings, 5th level is the automatic setting

Automatic mode - minimal current consumption thanks to optimised, independent adjustment of the output power to the fence length and status. Battery consumption is consequently minimal; the tending effect remains optimum over a very large area of fence load.

- also ideal for powerful types of animal
- up to max. 0.60 Joules in 12 V mode

ref. no.		€
372030	1	

New!

type	ref. no.	No Load	500 Ω	In	Out max.		theor.	max.	max.	max.
B 250 plus	372029	10,500 V	3,200 V	0.45 J	0.25 J	14-37 mA	5.0 km	3.0 km	0.7 km	-
B 500 plus	372030	9,000 V	4,100 V	0.64 J	0.50 J	14-61 mA	16.0 km	9.0 km	6.0 km	1.8 km

The specified values relate to performance level 5

AKO AGRARTECHNIK

Hobby Energizers and Training Energizer for Cows

AKOtronic S7K

- the cow trainer for shed use
- visual voltage control (green LED flashes with each pulse)
- with automatic shut-down (unit shuts down after 5 short circuitpulses – red LED lights up)
- max. output voltage: 5000 volts
- max. pulse energy: 0.09 joule

with timer: unit pulses for 2 hours, then interrupts for 5 hours. This interval repeats constantly.

- power consumption 2.0 watts



ref. no.		€
350728	1	



Mains Energizer Compact Power N 700

- very handy 230 V fencer
- specially for short fence lines
- with operation control light
- power consumption 5.0 watts

ref. no.		€
372080	1	



Rechargeable Battery Unit Compact Power AN 500

- effective 12 Volt electric fencer for portable use
- ideal for horse fences
- with operation control
- equipped with full discharge protection
- battery indicator light
- weather-proof and solid casing
- suitable ground / support rod 44657

ref. no.		€
372060	1	



Battery Unit Compact Power B 40

- low-priced, portable and handy energizer for small fences without vegetation – ideal for small gardens, trail-riding and other small fences, that can not be powered by a 230 Volt energizer
- operated by 2 x 1.5 V single cell batteries (not included)
- battery will run about 6 weeks when used 24 hours/day
- for about 200 m of fence line without vegetation
- unit fits in every coat pocket
- with on/off switch
- suitable ground / support rod 44657

ref. no.		€
372005	1	



Grounding Rod

- ideal for AN 500 and B 40 (available as accessory)

ref. no.		€
44657	1	

type	ref. no.	No Load	500 Ω	In	Out max.		theor.	max.	max.	max.
S7K	350728	5,000 V	1,340 V	-	0.09 J	-	-	-	-	-
N 700	372080	10,000 V	4,000 V	1.00 J	0.55 J	-	20.0 km	5.0 km	1.0 km	0.5 km
AN 500	372060	8,300 V	3,700 V	0.90 J	0.50 J	35-60 mA	14.0 km	4.0 km	0.8 km	0.3 km
B 40	372005	7,500 V	1,200 V	0.07 J	0.04 J	17 mA	1.0 km	0.2 km	-	-

Portable Fence Kit for Trekking

- assembles and disassembles quickly and easily
- weight: about 3 kg

Consists of:
- 1 battery energizer of 3 V (incl. 2 batteries)
- 2 gate handles with 50 m tape each
- 4 divisible aluminium posts of 1.15 m length
- 5 expanders with pegs
- 8 insulators for round posts
- 1 carry bag





ref. no.		€
44127	1	

Hobbyset

The ideal fence to protect your garden and to fence in dogs and cats. Excellent to enclose ponds in order to prevent e.g. cats and herons from fishing!

Set includes:
- 1 x electric fence energiser + earth/fence connecting cable
- 10 x fibreglass poles, green 70 cm
- 30 x wire clipps
- 100 m polywire green
- 1 x earth rod
- 1 x warning sign
- 6 x ring insulators with wooden thread



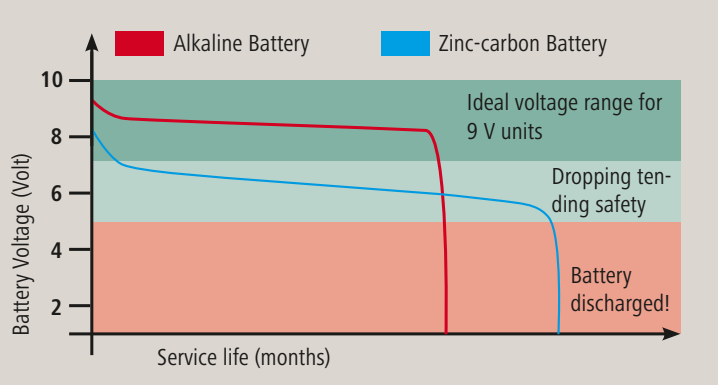




ref. no.	description	MQ			€
441150	Hobbyset with Mains Unit N700	1	-	1	
441151	Hobbyset with Battery Unit B40	1	-	1	
441853	Spare Post 70 cm	1	-	1	
444265	Spare spring	30	30	1	
44874-100	Green polywire, 100 m	1	-	100	

Alkaline 9 Volt Dry Batteries

• AKO 9 V alkali batteries keep a constantly high voltage during their entire battery life. This allows the fencer to send a constant amount of energy to the fence.







price includes disposal fee!

ref. no.	description	l x w x h			€
350611	9 V, 55 Ah	165 x 110 x 110 mm	1/4	360	
350681	9 V, 75 Ah	165 x 110 x 110 mm	1/4	360	
350565	9 V, 100 Ah	165 x 110 x 110 mm	1/4	360	
350522	9 V, 120 Ah	165 x 110 x 110 mm	1/4	360	
350531	9 V, 175 Ah	190 x 125 x 160 mm	1/4	216	

High Energy Saline 9 V Dry Battery

with carrying strap

• "more power for less money" • inexpensive, powerful alternative to alkaline batteries • extended service life • zinc-carbon technology • ideal for all common standard 9 V battery units • rated voltage 8.4 Volt

20 % benefit





New!

ref. no.	description	l x w x h			€
44220	9 V, 75 Ah	165 x 115 x 110 mm	1/4	320	
44221	9 V, 150 Ah	190 x 130 x 160 mm	1/4	192	

Zinc-Carbon 9 Volt Dry Batteries

• standard dry type battery for application in electric fence equipment, not designed for high power
• nominal voltage 8.4 V







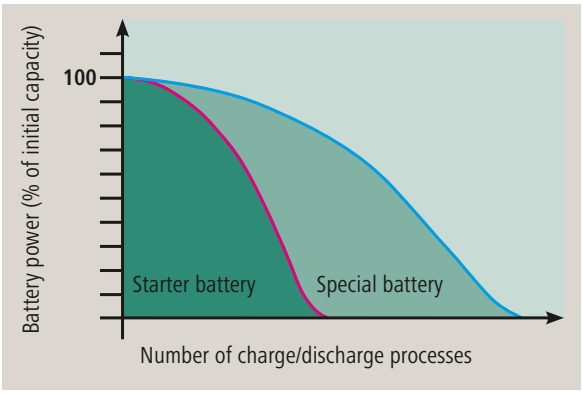
price includes disposal fee!

ref. no.	description	l x w x h			€
44218	6 V, 7 Ah	-	1/4/24	1,008	
44212	9 V, 55 Ah	165 x 115 x 110 mm	1/4	320	
44213	9 V, 90 Ah	190 x 130 x 160 mm	1/4	192	
44219	9 V, 130 Ah	190 x 130 x 160 mm	1/4	192	

12 Volts Special Wet Rechargeable Battery

- extremely low self-discharge
- ideal for 12 V battery units with or without solar panel
- designed especially for fencing units due to its slow charge and discharge cycles
- acid: sulphuric acid 37 % = density of 1.28
- supplied without acid
- during storage (e.g. in winter), the battery must be charged at least once
- 2-year warranty (note: warranty does not cover deep discharging)





12 volts 85 Ah fits all battery boxes of Savanne, Mobil Power A 1200, A 2000 digital and A 3000 digital12 Volt 85 Ah + 110 Ah fits metal battery box for AN 3100, AN 5500

New!

Important: for safety reasons, the batteries are supplied without battery acid. We recommend that they be filled by an professional "on site".

ref. no.	description	l x w x h	acid		€
350535	12 V, 65 Ah	242 x 175 x 190 mm	3,20 l	1	
44233	12 V, 85 Ah	278 x 175 x 190 mm	3,70 l	1	
44223	12 v, 110 Ah	353 x 175 x 190 mm	5,00 l	1	
442161	Battery Acid Bottle	-	1,00 l	1/4	

Automatic battery recharger for 12V batteries

- can be used with all 12 V rechargeable batteries up to 120 Ah and GEL batteries from 2 AH on
- various recharging modes: recharging function - recharging state
- protection setting protects against sparks or overheating
- LED displays for:

- various recharging modes
- incorrect pole connection
- fully charged
- actively recharging



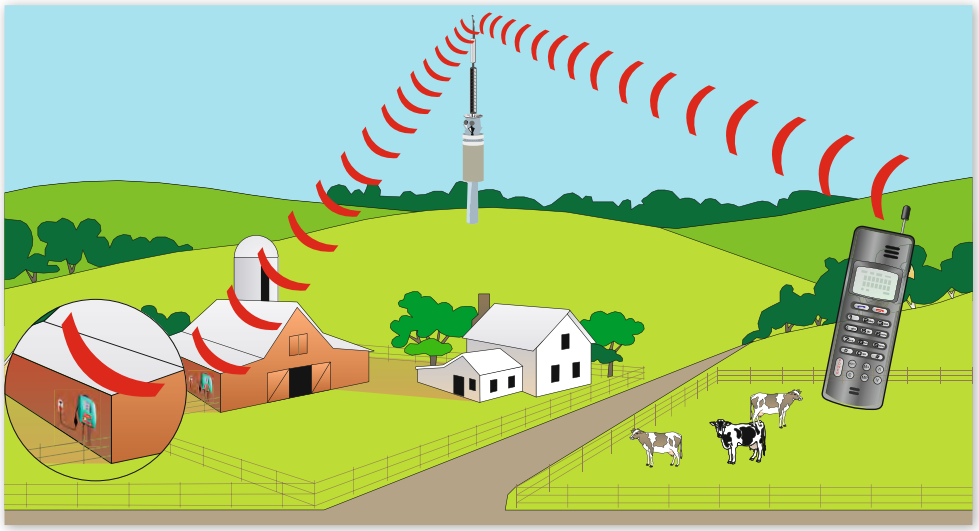
ref. no.	SB	€
371015/016	1	

GSM Remote Switch

- a fence energiser with an operational voltage of 230 V can be switched on and off with the GSM ON/OFF switch. This can be done with any land-line telephone or mobile phone by calling or sending an SMS. The GSM ON/OFF switch is equipped with an access code to protect against external manipulation. A prerequisite for problem-free use of the GSM ON/OFF switch is adequate signal strength and an activated SIM card. The SIM card is not included.



The first reliable remote switching system that does not depend on conductive wire. Makes maintenance work on your fence more convenient, for example!





ref. no.		€
441230	1	

New!

AKO GSM ALARM with Remote Switch

for monitoring and controlling the fence system

Alarm function:
the new AKO-GSM Alarm now also allows the straightforward monitoring of remote fence systems.
If the minimum fence voltage falls below a certain level (you can set this individually) or fails completely, the GSM-ALARM sends a corresponding message via SMS (and/or optionally a call) to your mobile phone. The measured fence voltage, the pulse cycle, the current battery voltage of the GSM-ALARM supply battery and also of its internal system battery are notified to you via SMS. Additional alarm devices (sirens, flashing lights, etc.) can also optionally be connected via cables to the relay contact on the GSM-ALARM. The GSM-ALARM works with all electric fence energisers brands.
It is possible at any time to request a status report from the GSM-ALARM via SMS.
The GSM alarm is operated either via the same battery (9 V or 12 V) as the electric fence unit or independently via a separate 9 V or 12 V battery (especially if the GSM-ALARM is not positioned directly on the electric fence unit). There must be a mobile telephone network connection at the site of the GSM-ALARM. The SIM card required is not included.

Remote switching function via SMS or call:
you can also switch any 9 or 12 V electric fence unit ON or OFF if it is connected to the GSM-ALARM. In combination with the ON/OFF switching adapter Art.No. 441030, any 230 V device can be switched ON or OFF.

available from april 2013





ref. no.	description		€
441022	GSM Alarm	1	
441030	On / off switching adapter	1	

New!

AKO Multimeter

- for accurate fault finding in your electric fence. This is a dual function device - it is a digital fence voltage tester and ampmeter. This enables simple detection of possible faults on the fence.
- you are supported by indicators in each direction

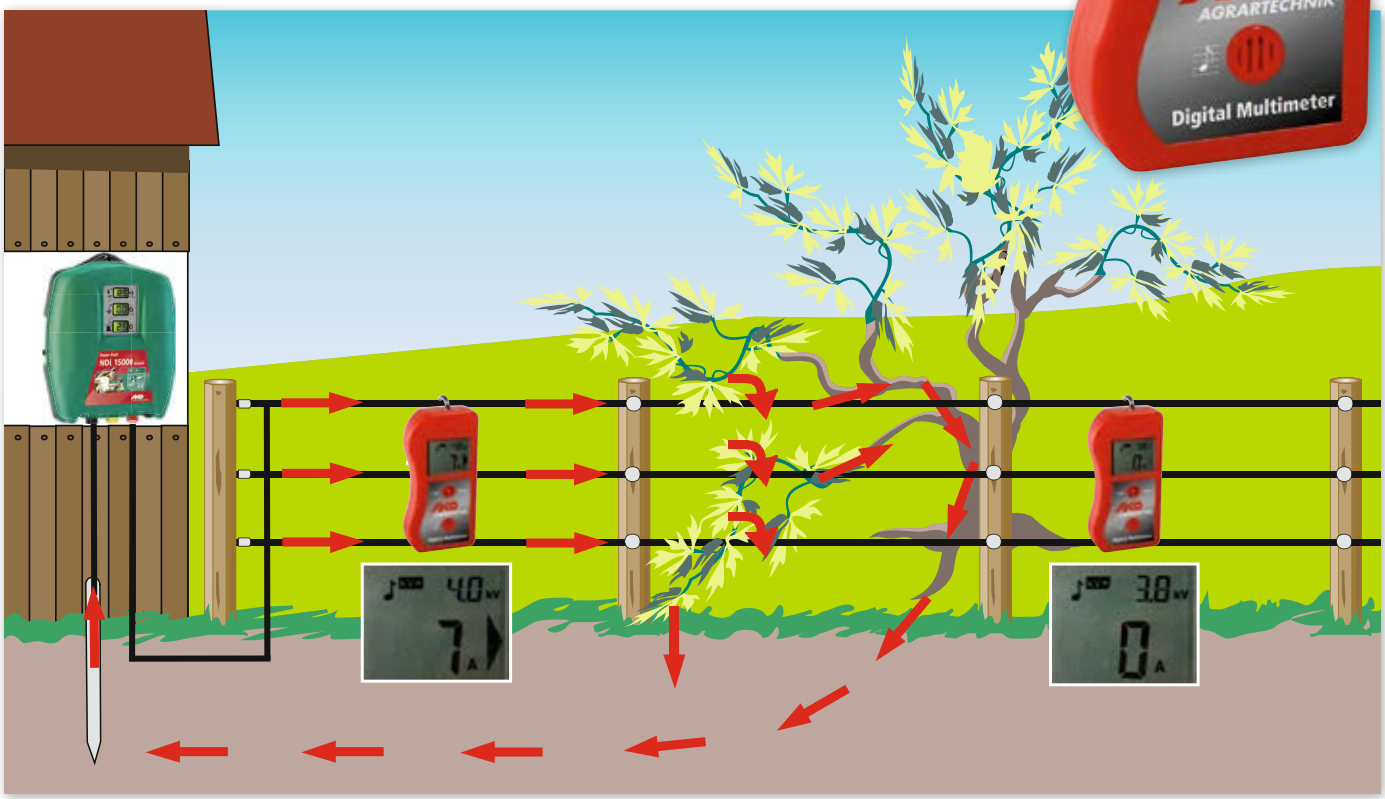
Our multimeter distinguishes itself from conventional testing equipment through:

- convenient and safe application due to ergonomic housing
- universal contact clips suitable for all conducting materials
- convenient measurement through automatic earthing



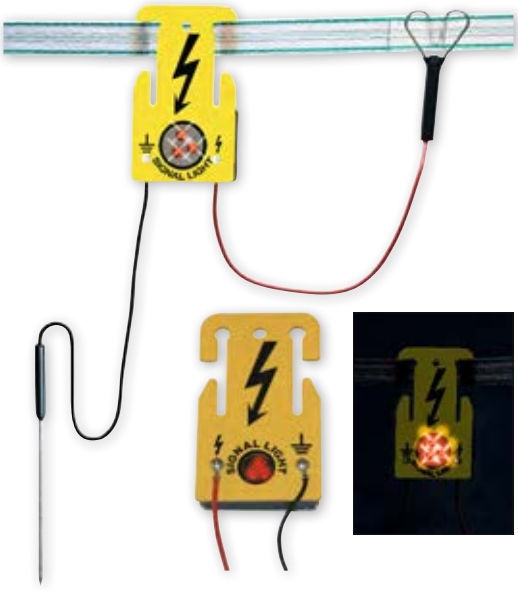


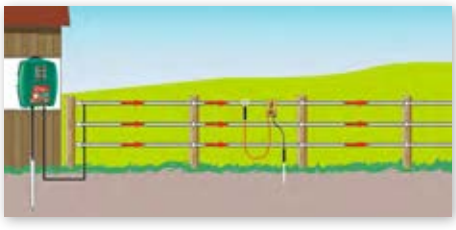
ref. no.		€
442562	1/25	



Signal Light

- flashes with every fence impulse
- under 3000 V light stops flashing and thereby shows that the fence is no longer safe
- mount signal lights at several points on your fence for quick optical control of the condition of your fence - also visible at daylight
- the signal light does not require batteries





ref. no.	SB		€
441223/011	1	52	



Fence Line Tester without Ground rod

- easy measurement, no ground rod is needed
- measurement in the distance to the hedge of max. 0 - 5 cm
- voltage readout in four levels shown in four flashing green diodes: 2500 V – 8000 V
- red LED for undervoltage
- LED display for battery status (9 V block)
- incl. 9 V block battery



Von CAVALLO empfohlen 1. Platz Kategorie „Lowtech" 06/2010

1. st place
Cavallo-Test, June 2010

ref. no.	SB	€
44669	1	

AKO Digital Volt Meter

- To accurately measure voltages of between 0 and 9,900 volts at the fence
- Includes 9 V block battery



ref. no.		€
441228	1/25	

Fence Checker

Visual and Audible Hedge Tester

- mini handheld display device for electric fences
- emits auditory and visual signals when the fence has a voltage
- includes battery test function
- takes readings easily without the need for an earth spike
- incl. battery

Perfect for cyclists and walkers!



ref. no.		€
441227	1	

Fence Tester AKO

- ergonomic design
- shows the voltage in six levels
- no batteries required
- for exact measurements at the fence



ref. no.	description		€
441221	Up to 10,000 V	1/80	
441222	Up to 6,000 V	1/80	

Digital Battery Tester

- with digital display
- for all conventional fence batteries
- measures in a range of 0 - 20 volts
- load resistor 33 ohm for testing
- incl. 9 V block battery



ref. no.	SB	€
44663	1	

Special Ground Rod

- made of galvanized T-shaped steel incl. M8 screw (stainless steel) for ground connection cable



ref. no.	length			€
44615	1 m	1	400	
441369	2 m	1	200	

Special Earth Rod for Mobile Use

• 75 cm length made of galvanized steel • easy to pull out with T-handle • with screw for earth connecting cable



ref. no.		€
44619	1	

Cast Resin Connection Kit

- high-voltage-proof, water-tight connection of underground cables



ref. no.		€
440120	1	

Tip: make sure to lay the underground cable in a plastic ductwork to prevent the cable from damage!

High-Voltage Underground Cable Premium



• double-insulated with tinned copper conductor • connects fence line and grounding
• on plastic reel • high voltage insulation up to 20.000 Volt

ref. no.	length	Conductor diameter	Conductor cross-section	Exterior diameter	resistance Ω/m		€
440110	50 m	1,6 mm	1,5 mm²	7,6 mm	0,014	1	
440111	100 m	1,6 mm	1,5 mm²	7,6 mm	0,014	1	

High-Voltage Underground Cable



• double-insulated with galvanized steel conductor • connects fence line and grounding • ideal for permanent fence systems

ref. no.	length	Conductor diameter	Conductor cross-section	Exterior diameter	resistance Ω/m		€
44818	25 m	1,6 mm	2,0 mm²	6,1 mm	0,090	1	
44921	50 m	1,6 mm	2,0 mm²	6,1 mm	0,090	1	
44922	100 m	1,6 mm	2,0 mm²	6,1 mm	0,090	1	
44819	50 m	2,5 mm	4,9 mm²	7,1 mm	0,035	1	
44920	100 m	2,5 mm	4,9 mm²	7,1 mm	0,035	1	

High-Voltage Underground Cable



• single-insulated with tinned copper conductor (bundled copper wires)
• connects fence line and grounding • on plastic reel

ref. no.	length	Conductor diameter	Conductor cross-section	Exterior diameter	resistance Ω/m		€
44630	25 m	1,32 mm	1,0 mm²	7,0 mm	0,025	1	
44632	50 m	1,32 mm	1,0 mm²	7,0 mm	0,025	1	

Fence/Earth Connection Cable



• with M8 eyes • connects fencer and ground rod • excellent connection between indoors energizer to outside ground rod • also suitable for connecting several ground rods

ref. no.	length	Conductor diameter	Conductor cross-section	Exterior diameter	resistance Ω/m	SB		€
44635/011	3 m	1,32 mm	1,0 mm²	7,0 mm	0,025	1	40	
44636/011	8 m	1,32 mm	1,0 mm²	7,0 mm	0,025	1	15	



PremiumLine

AKO Premium Line guarantees maximum conductivity and herding safety, even for the longest of fences. In comparison to traditional materials, the AKO Premium Line offers 40 times the conductivity, with a combination of thick tin-plated copper conductors and extremely stable stainless steel conductors.

Premium Plus

AKO Premium PLUS guarantees maximum robustness and durability. The particularly strong monofilament fibres and the expanded diameters of our TriCONDTM conductor material fulfil the highest requirements when it comes to breaking load and conductivity.

TopLine Plus

AKO TopLine Plus guarantees high conductivity and long-term durability for medium-sized to long fence systems. Using the new TriCONDTM conductor material, AKO TopLine Plus conducts 5 times better than traditional materials.

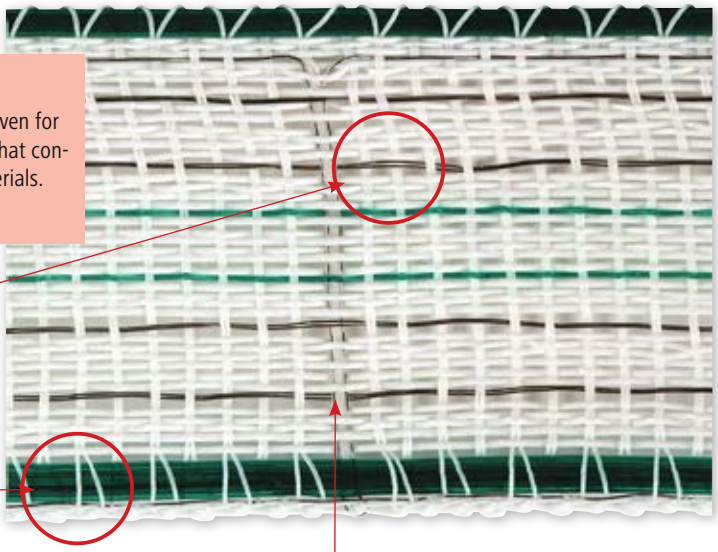
EconomyLine

AKO EconomyLine guarantees excellent conductivity and durability for short fences and strip grazing

For videos, see
www.ako-agrar.de/mediathek

PremiumLine Tapes

AKO Premium Band guarantees maximum conductivity and herding safety, even for the longest of fences. The use of thick tin-plated copper conductors means that conductivity is 40 times higher than that achieved by traditional conductor materials.

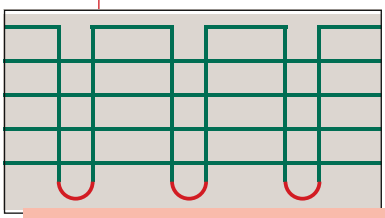


**wire grouping =
permanent electrification**

**reinforced outer edges =
high tear resistance**

PremiumLine Fencing Tape

- cross connected wires - permanently electrified wires make sure there is a constant power flow
- reinforced outer edges (441535, 441534) strong polyethylene strands increase tear resistance
- wire grouping - there is a link of two live wires to keep the fence voltage at aconstant level
- 5 years UV warranty



**cross connected wires =
constant power flow**



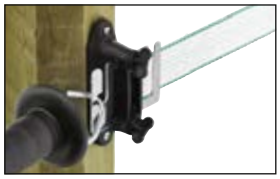




We recommend always to use tape accessories made of stainless steel (connectors, gate insulators, gate handles etc.)

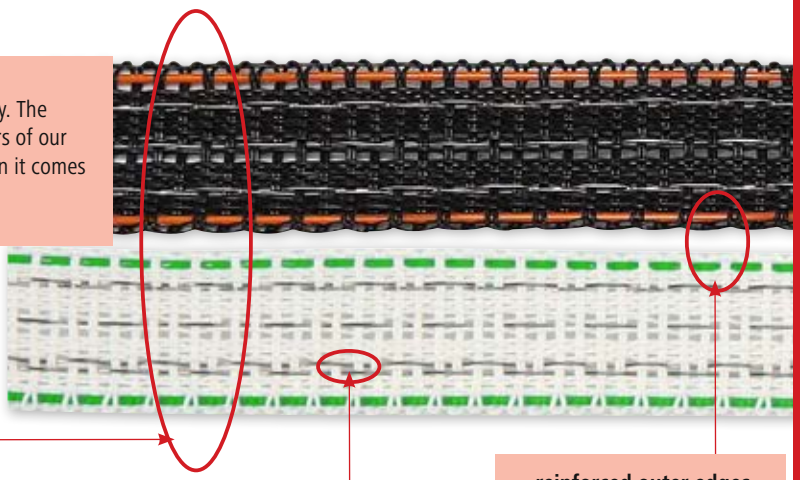
ref. no.	length	width	colour	recommended fence length max.	resistance Ω/m	number of conductors	stainless steel wires	copper wires tinned	breaking strength			€
441533	200 m	12.5 mm	white/green	7,500 m	0.25	5	3 x 0.20 mm	2 x 0.20 mm	80 kg	1/12	144	
441534	200 m	20 mm	white/green	11,500 m	0.17	6	3 x 0.20 mm	3 x 0.20 mm	180 kg	1/6	120	
441535	200 m	38 mm	white/green	15,000 m	0.13	10	6 x 0.20 mm	4 x 0.20 mm	270 kg	1/6	48	




Premium Plus Tapes

AKO Premium PLUS guarantees maximum robustness and durability. The particularly strong monofilament fibres and the expanded diameters of our TriCONDTM conductor material fulfil the highest requirements when it comes to breaking load and conductivity.



Extra strong monofilament fibres

reinforced outer edges

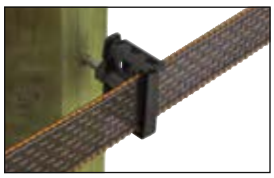
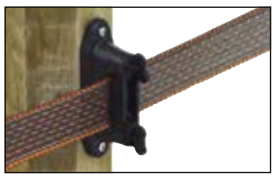
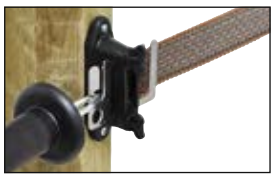
Very thick TriCOND conductors

Premium Plus Tape

- 5 years UV warranty
- very low resistance through the use of 0.40 mm thick TriCOND metal conductors = extremely high conductivity
- 7x higher conductivity than with traditional materials
- very thick polyethylene fibres guarantee maximum tensile strength, quality and longevity

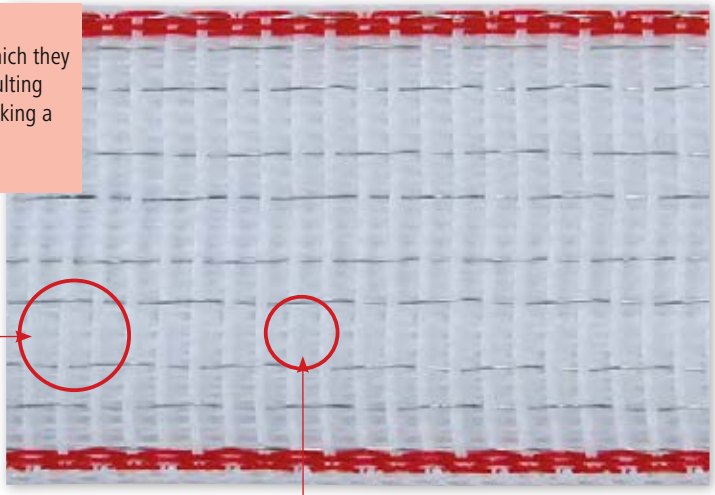


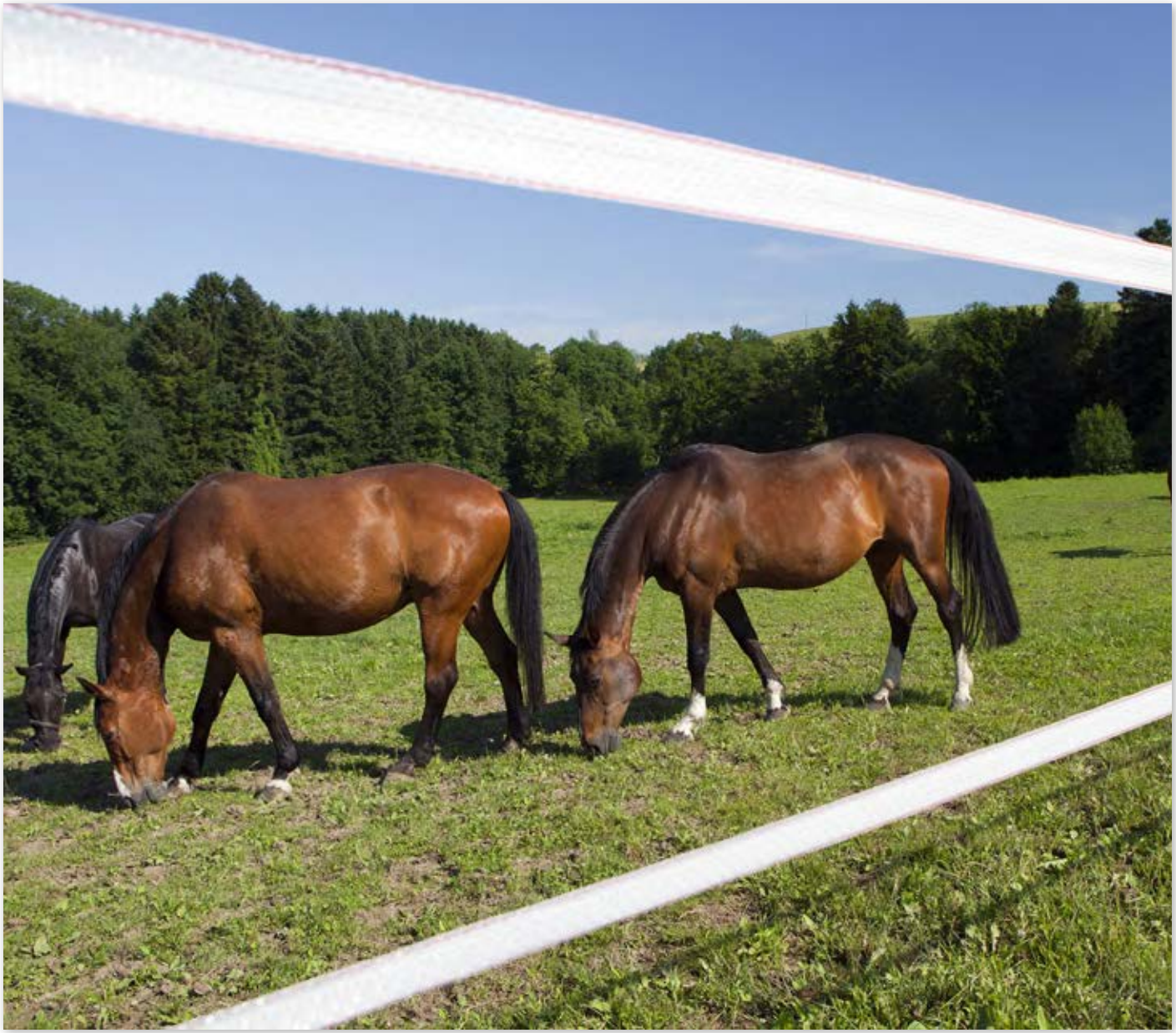
ref. no.	length	width	colour	recommended fence length max.	resistance Ω/m	number of conductors	TriCOND	breaking strength			€
449123	200 m	20 mm	brown / orange	11,000 m	0.183	5	0.40 mm	190 kg	1/6	96	
449122	200 m	40 mm	brown / orange	22,000 m	0.09	10	0.40 mm	350 kg	1	48	
449124	200 m	20 mm	white/green	11,000 m	0.183	5	0.40 mm	190 kg	1/6	96	
449125	200 m	40 mm	white/green	22,000 m	0.09	10	0.40 mm	350 kg	1	48	


TopLine Plus Tapes

Last years, TriCOND conductive wires were subjected to intensive tests, in which they displayed a long useful life. The low resistance of TriCOND wires and the resulting high repellent effect offer an excellent cost-performance ratio. It is worth making a comparison (resistance in Ohm/metre <-> price).





TopLine plus Tape

AKO TopLine PLUS guarantees excellent conductibility and longevity for medium to long fences. In contrast to rust-proof wire, the lines, flexes and cables offered by the TopLine PLUS range are equipped with our new TriCOND conducting material, boasting 5 x higher conductibility. In other words, you can use 5 x longer fences or 'transport' 5 x more power to areas in contact with animals = 5 x more security.

• 4 years UV warranty



ref. no.	length	width	colour	recommended fence length max.	resistance Ω/m	number of conductors	TriCOND	breaking strength			€
4491504	200 m	10 mm	white/red	4,000 m	0.467	4	0.30 mm	90 kg	1/12	240	
4491505	500 m	10 mm	white/red	4,000 m	0.467	4	0.30 mm	90 kg	1/6	120	
449568	200 m	10 mm	yellow/orange	4,000 m	0.467	4	0.30 mm	90 kg	1/12	240	
449107	200 m	10 mm	green	4,000 m	0.467	4	0.30 mm	90 kg	1/12	240	
449566	200 m	10 mm	orange	5,000 m	0.374	5	0.30 mm	90 kg	1/12	240	
449569	200 m	10 mm	blue	5,000 m	0.374	5	0.30 mm	90 kg	1/12	240	
449550	400 m	20 mm	white/red	5,000 m	0.374	5	0.30 mm	120 kg	1/6	120	
449551	200 m	20 mm	white/red	5,000 m	0.374	5	0.30 mm	120 kg	1/12	120	
449563	200 m	20 mm	yellow/orange	5,000 m	0.374	5	0.30 mm	120 kg	1/12	120	
449108	200 m	20 mm	green	5,000 m	0.374	5	0.30 mm	120 kg	1/12	120	
449554	200 m	40 mm	white/red	10,000 m	0.187	10	0.30 mm	230 kg	1/6	72	
449109	200 m	40 mm	green	10,000 m	0.187	10	0.30 mm	230 kg	1/6	48	
449553	200 m	40 mm	brown	10,000 m	0.187	10	0.30 mm	230 kg	1/6	72	

TopLine Plus Fence Tape Twin Pack

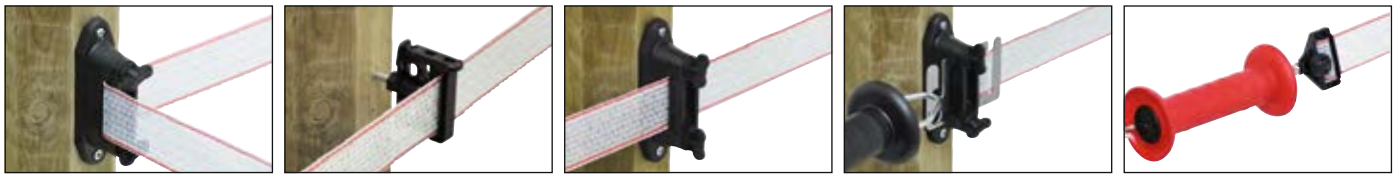
• width 20 mm
• 2 x 250 m
• 4 years UV warranty
• excellent conductivity and durability thanks to the new TriCOND wires
• increased fracture load thanks to strong monofilament wires

20 % benefit

New!



ref. no.	length	width	colour	recommended fence length max.	resistance Ω/m	number of conductors	TriCOND	breaking strength			€
449552	2 x 250 m	20 mm	white/red	5,000 m	0.374 m	5	0.30 mm	120 kg	1/6	72	



EconomyLine Tape

- ideal for short fence lines and portion pastures
- 3 years UV warranty

Standard tapes for short fence lines



ref. no.	length	width	colour	recommended fence length max.	resistance Ω/m	number of conductors	stainless steel wires	breaking strength			€
44550	200 m	12.5 mm	white	200 m	11.0	4	0.16 mm	75 kg	1/12	240	
44556	200 m	20 mm	white	200 m	11.0	4	0.16 mm	90 kg	1/12	240	
44557	200 m	40 mm	white	400 m	5.50	8	0.16 mm	130 kg	1/6	96	

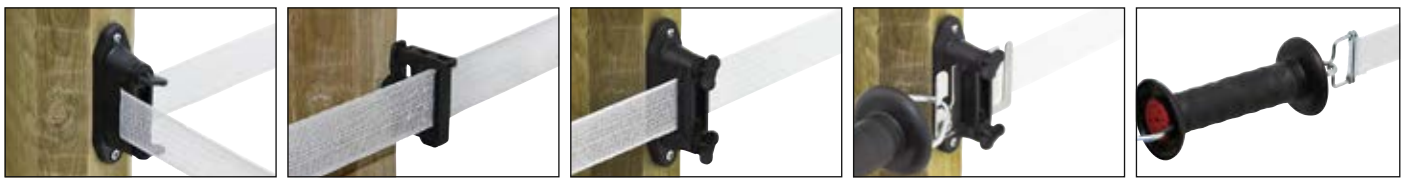
Fencing Tape Double Pack EconomyLine

- 10 mm wide
- 2 x 200 m length
- 3 years UV warranty

Standard tapes for short fence lines

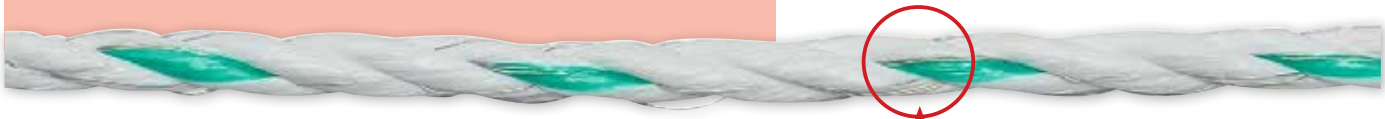


ref. no.	length	width	colour	recommended fence length max.	resistance Ω/m	number of conductors	stainless steel wires	breaking strength			€
44565	2 x 200 m	10 mm	yellow/orange	200 m	11.0	4	0.16 mm	60 kg	1/6	120	
441525	2 x 200 m	10 mm	white	200 m	11.0	4	0.16 mm	60 kg	1/6	120	



PremiumLine Ropes

AKO Premium Line Rope guarantees highest conductivity and tending safety, even on very long runs of fence!



wire grouping = permanent electrification

PremiumLine Fencing Rope

- strong tinned copper wires – copper wires provide a 40 times higher conductivity than conventional conductors
- robust stainless steel wires - enhance the durability
- wire grouping - three linked wires respectively keep the fence voltage at a constant level.
- 5 years UV warranty

- **we recommend always to use tape accessories made of stainless steel (connectors, gate insulators, gate handles etc.)**

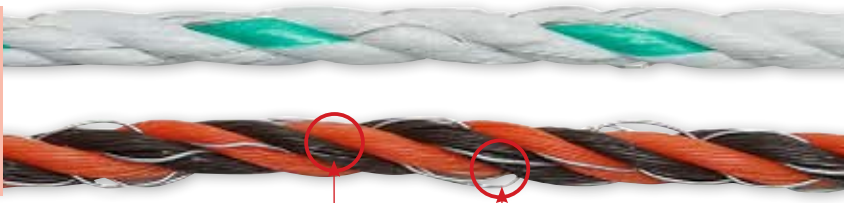


ref. no.	length	Ø	colour	recommended fence length max.	resistance Ω/m	number of conductors	stainless steel wires	copper wires tinned	breaking strength			€
441564	200 m	6.5 mm	white/green	18,000 m	0.11	9	6 x 0.20 mm	3 x 0.25 mm	400 kg	1	72	
441554	400 m	6.5 mm	white/green	18,000 m	0.11	9	6 x 0.20 mm	3 x 0.25 mm	400 kg	1	36	



Premium Plus Ropes

AKO Premium PLUS guarantees maximum robustness and durability. The particularly strong monofilament fibres and the expanded diameters of our TriCONDTM conductor material fulfil the highest requirements when it comes to breaking load and conductivity.



Extra strong monofilament fibres

Very thick TriCOND conductors

Premium Plus Fencing Rope

- 5 years UV warranty
- very low resistance through the use of 0.40 mm thick TriCOND metal conductors = extremely high conductivity
- 7x higher conductivity than with traditional materials
- very thick polyethylene fibres guarantee maximum tensile strength, quality and longevity



ref. no.	length	Ø	colour	recommended fence length max.	resistance Ω/m	number of conductors	TriCOND	breaking strength			€
449121	400 m	6 mm	orange/brown	13,000 m	0.15	6	0.40 mm	400 kg	1	45	
449126	400 m	6 mm	white/green	13,000 m	0.15	6	0.40 mm	400 kg	1	45	



TopLine Plus and EconomyLine electric fence ropes

Last years, TriCOND conductive wires were subjected to intensive tests, in which they displayed a long useful life. The low resistance of TriCOND wires and the resulting high repellent effect offer an excellent cost-performance ratio. It is worth making a comparison (resistance in Ohm/metre <-> price).



thick monofilament threads = increased breaking strength

new conductor TriCOND = excellent conductivity and long service life



TopLine plus Rope

AKO TopLine PLUS guarantees excellent conductibility and longevity for medium to long fences. In contrast to rust-proof wire, the lines, flexes and cables offered by the TopLine PLUS range are equipped with our new TriCOND conducting material, boasting 5 x higher conductibility. In other words, you can use 5 x longer fences or 'transport' 5 x more power to areas in contact with animals = 5 x more security

- 4 years UV warranty

ref. no.	length	colour	Ø	recommended fence length max.	resistance Ω/m	number of conductors	TriCOND	breaking strength			€
449531	400 m	white/red	6 mm	6,000 m	0.311	6	0.30 mm	400 kg	1	36	
449532	200 m	white/red	6 mm	6,000 m	0.311	6	0.30 mm	400 kg	1	96	

EconomyLine Electric Fence Rope

- NEW: Strong polyethylene monofilament fibres guarantee even higher quality and therefore a longer service life

We otherwise only use these plastic fibres in our TopLine and Premium products. Strong monofilament fibres = increased breaking load



New!

ref. no.	length	Ø	colour	recommended fence length max.	resistance Ω/m	number of conductors	stainless steel wires	breaking strength			€
441626	200 m	6.0 mm	white	600 m	3,87	6	0,20 mm	380 kg	1/6	96	

EconomyLine Fence Rope

- 3 years UV warranty
- sturdy polypropylene carrier material
- the economical alternative for small fence systems

Standard ropes for short fence lines



ref. no.	length	Ø	colour	recommended fence length max.	resistance Ω/m	number of conductors	stainless steel wires	breaking strength			€
44531	200 m	6.0 mm	white	600 m	3.87	6	0.20 mm	350 kg	1/6	96	
441545	500 m	6.0 mm	white	600 m	3.87	6	0.20 mm	350 kg	1/2	32	
44533	200 m	8.0 mm	white	600 m	3.87	6	0.20 mm	700 kg	1/2	32	

PremiumLine Polywires

AKO Premium Polywire guarantees highest conductivity and tending safety, even on very long runs of fence.

Strong PE threads = increased breaking strength

wire grouping = permanent electrification



PremiumLine Polywires

- strong PE threads - provide constantly high breaking strength on your fencing system
- heavy gauge tinned copper wires – copper wires provide a 40 times higher conductivity than conventional conductors
- stable stainless steel conductors ensure a long service life
- wire grouping - two linked wires respectively keep the fence voltage at a constant level
- 5 years UV warranty



• we recommend always to use tape accessories made of stainless steel (connectors, gate insulators, gate handles etc.)

ref. no.	length	colour	recommended fence length max.	resistance Ω/m	number of conductors	stainless steel wires	copper wires tinned	breaking strength			€
441550	250 m	white/green	18,000 m	0.11	6	3 x 0.20 mm	3 x 0.25 mm	95 kg	1/12	216	
441551	500 m	white/green	18,000 m	0.11	6	3 x 0.20 mm	3 x 0.25 mm	95 kg	1/6	120	

EconomyLine Mono Wire

- 2 tinned steel wires of 0.50 mm wrapped around a nylon core of 1.4 mm
- excellent conductivity
- 3 years UV warranty





ref. no.	length	colour	recommended fence length max.	resistance Ω/m	number of conductors	stainless steel wire	breaking strength			€
44502	500 m	transparent	3,000 m	0.35	2	0.50 mm FeZn	45 kg	1/8	192	
44503	1000 m	transparent	3,000 m	0.35	2	0.50 mm FeZn	45 kg	1/4	120	

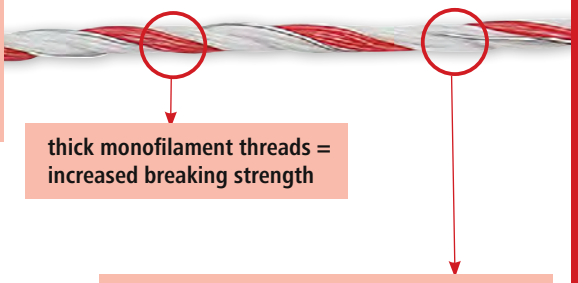






TopLine Plus Polywires

Last years, TriCOND conductive wires were subjected to intensive tests, in which they displayed a long useful life. The low resistance of TriCOND wires and the resulting high repellent effect offer an excellent cost-performance ratio. It is worth making a comparison (resistance in Ohm/metre <-> price).



thick monofilament threads = increased breaking strength

new conductor TriCOND = excellent conductivity and long service life

TopLine plus Polywire

AKO TopLine PLUS guarantees excellent conductibility and longevity for medium to long fences. In contrast to rust-proof wire, the lines, flexes and cables offered by the TopLine PLUS range are equipped with our new TriCOND conducting material, boasting 5 x higher conductibility. In other words, you can use 5 x longer fences or 'transport' 5 x more power to areas in contact with animals = 5 x more security

- 4 years UV warranty



ref. no.	length	colour	recommended fence length max.	resistance Ω/m	number of conductors	TriCOND	breaking strength			€
449119	300 m	white/red	3,000 m	0.623	3	0.30 mm	100 kg	1/12	240	
449523	400 m	white/red	9,500 m	0.21	9	0.30 mm	100 kg	1/6	144	
449120	1000 m	white/red	9,500 m	0.21	9	0.30 mm	100 kg	1/6	72	
4491558	200 m	white/blue	6,000 m	0.311	6	0.30 mm	100 kg	1/12	360	
4491559	400 m	white/blue	6,000 m	0.311	6	0.30 mm	100 kg	1/12	120	

TopLine Plus Fence Wire Twin Pack

- 2 x 250 m
- 4 years UV warranty
- 5 x higher conductivity thanks to the use of our TriCOND wire material. With TriCOND, you can operate 5 x longer fences or "transport" 5 x more current to the animal contact point. 5 x more safety for humans and animals!

20 % benefit

New!



ref. no.	length	colour	recommended fence length max.	resistance Ω/m	number of conductors	TriCOND	breaking strength			€
449129	2 x 250 m	white/red	3,000 m	0.623	3	0.30 mm	100 kg	1/6	120	



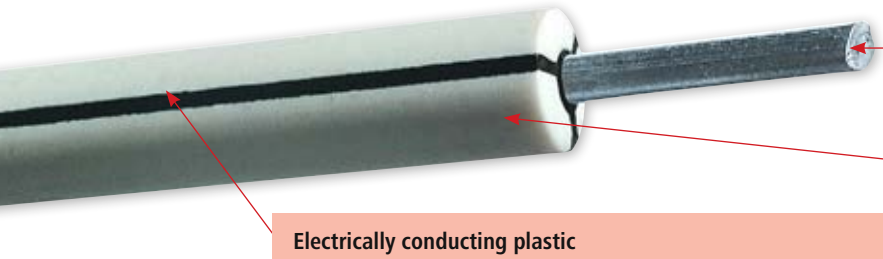
EconomyLine Polywire

- ideal for short fence lines and portion pastures
- 3 years UV warranty



ref. no.	length	colour	recommended fence length max.	resistance Ω/m	number of conductors	stainless steel wires	breaking strength			€
441555	250 m	yellow/orange	250 m	7.74	3	0.20 mm	90 kg	1/12	288	
44520	250 m	yellow/orange	150 m	15.0	3	0.16 mm	40 kg	1/20	420	
44519	500 m	yellow/orange	150 m	15.0	3	0.16 mm	40 kg	1/12	288	

Premium Horse Wire



Steel Wire
Inside there is a galvanized steel wire of 2.5 mm.

Electrically conducting plastic
A coating of electrically conducting mixture of carbon fibre and plastic that reaches the surface through three lines, covers the steel wire.

Polyethylen-Polymer
A coating of white UV-stabilized polyethylene covers the area between live materials.



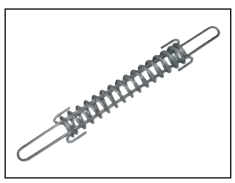
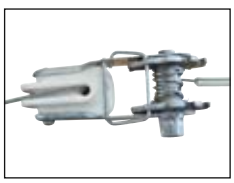
10 years warranty on conductors!

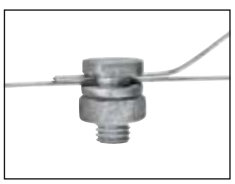
Premium Horse Wire

- 250 m length
- 8 mm diameter
- great conductivity 0.035 Ohm/m
- high mechanical barrier due to steel wire (breaking strength 800 kg)
- electrifiable and very safe
- extremely weather-proof (cold, warmth, moisture)
- high visibility due to white coating and Ø 8 mm
- UV-stabilized PE covering
- easy to install and to handle like wire
- no physical hazard for horses due to round and smooth surface



ref. no.			€
44873	1	20	





Fencing Wire Aluminium

- excellent conductivity, 4 times higher than conventional steel wire
- easy to handle during installation
- low weight (by 2/3 less than steel wire)



ref. no.	length	Ø				€
445002	400 m	1.6 mm	1	8	240	
445007	400 m	1.8 mm	1	4	144	
445003	400 m	2.0 mm	1	4	120	

Stranded Wire galvanized

- 7 strands • very flexible, easy to install • multi-use, e.g. for wildlife control • resistance 0.15 ohms/m
- breaking strength 150 kg



ref. no.	length	description	Ø			€
44500	200 m	Stranded Wire without Reel	1.5 mm	1	400	
445009	1000 m	Stranded Wire on Reel	1.5 mm	1	125	

Steel Wire galvanized

- breaking strength 200 kg • resistance 0.05 ohms/m



ref. no.	length	Ø			€
44504	250 m	1.8 mm	1/5	100	

High-Tensile Steel Wire for Permanent Fence

- zinc/aluminium alloy for long lasting protection • ninefold protection against corrosion compared to galvanized wire • breaking strength 650 kg • resistance 0.035 ohm/m



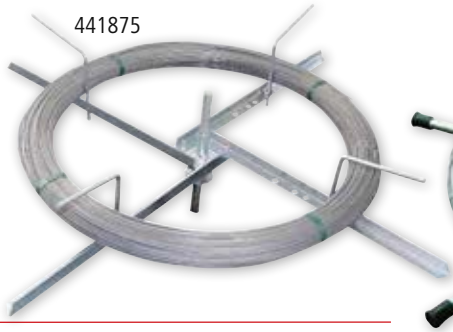
ref. no.	length	Ø			€
44505	625 m	2.5 mm	1	40	

ref. no.	length	Ø	resistance Ω/m	description	breaking strength
445002	400 m	1.6 mm	0,020	aluminium	60 kg
445007	400 m	1.8 mm	0,015	aluminium	75 kg
445003	400 m	2.0 mm	0,010	aluminium	90 kg
44500	200 m	1.5 mm	0,150	Stranded Wire without Reel	150 kg
445009	1000 m	1.5 mm	0,150	Stranded Wire on Reel	150 kg
44504	250 m	1.8 mm	0,050	iron galvanized	115 kg
44505	625 m	2.5 mm	0,035	steel galvanized	650 kg

Wire Pay-Out Spinner

- trouble-free unrolling of permanent fencing wire
- galvanized
- also for Horse Wire

441875



44279



ref. no.			€
44279	1	20	
441875	1/6	-	

Temperature Equalisation Spring

- sturdy model for 2.5 mm steel wire (44259 for 1.6 mm steel wire)
- eases strain on wire and corner posts
- balances temperature variations in winter and renders fence flexible



44259



44705



ref. no.	length	Ø spring	material		€
44704	435 mm	43 mm	galvanized	1/20	
44705	435 mm	43 mm	stainless steel	1/20	
44259	200 mm	25 mm	stainless steel	1/60	

Cut-Out Switch

- practical on/off and changeover switch for your fence system
- ideal also for mains operated fence lines
- switches two separate fence systems



4 possible settings:

I	only fence 1
II	only fence 2
I + II	fence 1 + 2 together
0	Off

ref. no.	SB		€
44607	-	1/20	
44607/011	1	1	

Lightning Choke

- protect your energizer from overvoltage, that can be caused by lightning strokes



ref. no.		€
44601	1/10	

Lightning Protection

- protect your electric fencer from overvoltage, caused by lightning contact with the fence system
- for assembly onto fence post
- via a fixed discharger, the 'lighting protection' channels the overvoltage directly into the ground





ref. no.	SB	€
449602/011	1	

Warning Sign Electric Fence

- attach at places open to the public
- made of stable grade plastic
- dimensions: 200 x 100 mm
- double-sided printed



Available with additional advertising address imprint on request. Minimum quantity 500

ref. no.		€
44620	1/10/500	

Warning Sign – Do not feed the animals!

- attach at places open to the public
- made of durable plastic
- dimensions: 200 x 120 mm



ref. no.		€
44621	1/25/500	

Warning Sign Electric Fence

- attach at places open to the public
- made of stable grade plastic
- dimensions: 200 x 120 mm
- double-sided printed



ref. no.		€
44623	1/10/500	

Warning Sign – Keep off the pasture!

- attach at places open to the public
- made of durable plastic
- dimensions: 200 x 120 mm



ref. no.		€
44628	1/25/500	

Connection and Grounding Accessories

Ground Connection Cable

- connects energizer and ground rod
- lead length 100 cm
- M8 metal eyes

ref. no.	SB	€
44604/011	1	

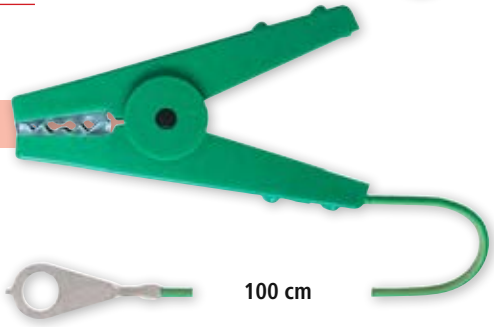


Ground Connection Cable

- with heavy-duty crocodile clip
- lead length 100 cm
- M8 metal eye

stainless steel

ref. no.	SB	€
44606/011	1	

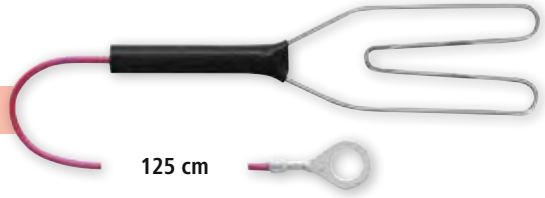


Connection Cable Heart-shaped Clip

- connects fencer and wire or polywire
- lead length 125 cm
- heart-shaped clip

Stainless Steel

ref. no.	SB	€
441603/011	1	

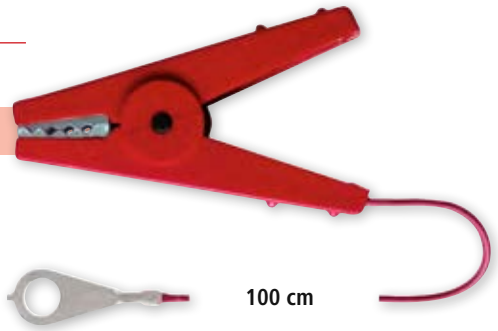


Connection Cable

- with heavy-duty crocodile clip
- lead length 100 cm
- M8 metal eye

stainless steel

ref. no.	SB	€
44605/011	1	

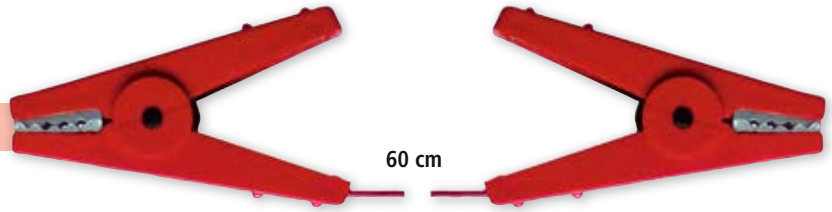


Fence Connection Cable

- with 2 heavy-duty crocodile clips
- lead length 60 cm

stainless steel

ref. no.	SB	€
441608/011	1	

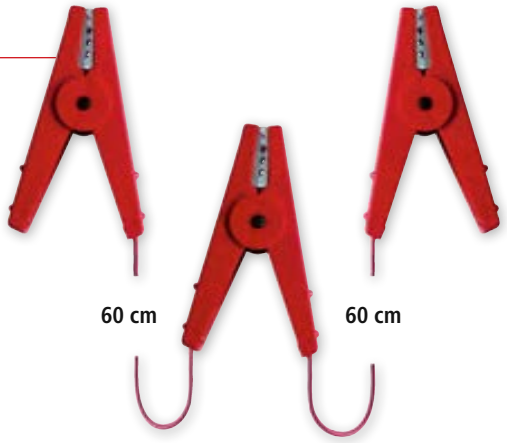


Fence Connection Cable, triple

- with 3 robust crocodile clips
- cable length 2 x 60 cm

stainless steel

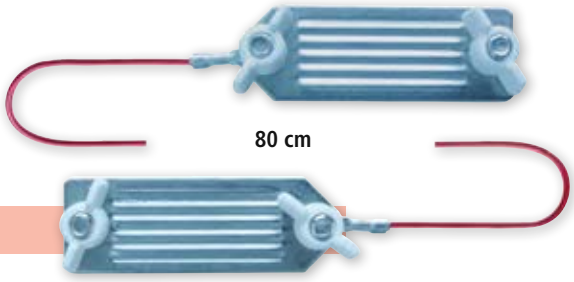
ref. no.	SB	€
441601/011	1	



Connection and Grounding Accessories

Tape-to-Tape Connector

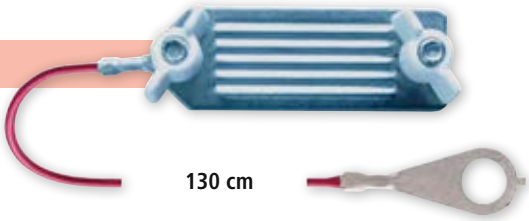
- ideal mechanical and electrical connection between two fencing tapes up to a width of 40 mm
- 80 cm lead



ref. no.	SB	€	
44616/011	1		stainless steel

Energizer-to-tape connector

- ideal mechanical and electrical connection between energizer and tape up to a width of 40 mm
- 130 cm lead
- M8 eye



ref. no.	SB	€	
44617/011	1		stainless steel

Rope Connector with Lead

- ideal mechanical and electrical connection between energizer and fencing rope up to ø 6.5 mm
- 150 cm lead
- M8 eye



ref. no.	SB	€
44627/011	1	

Rope-to-Rope Connector

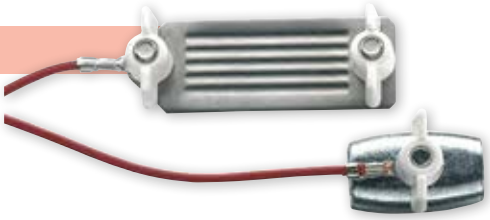
- connector for ropes up to ø 6.5 mm
- ideal mechanical and electrical connection between two fencing ropesup to ø 6.5 mm
- 80 cm lead



ref. no.	SB	€
44629/011	1	

Rope / Tape Connection

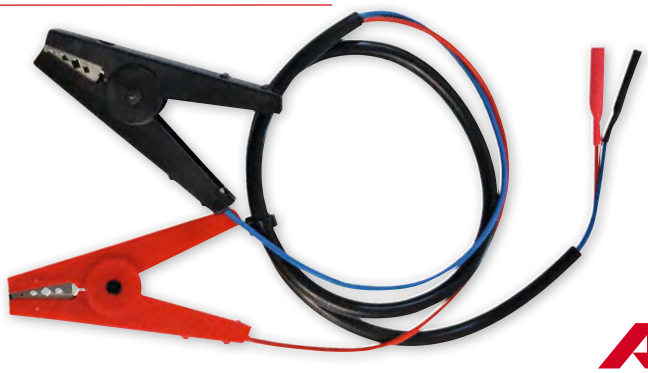
- the perfect mechanical and electrical connection between pasture fence rope (up to ø 6.5 mm) and pasture fence tape (up to 40 mm)
- 80 cm cable



ref. no.	SB	€	
441493/011	1		stainless steel

Adaptor Cable

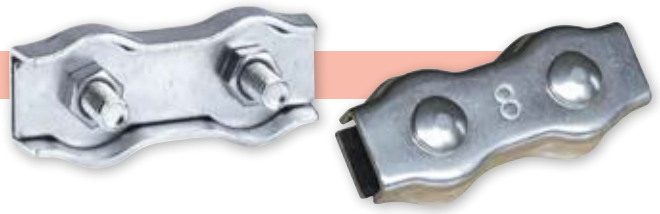
- with 80 cm cable
- connects 12 Volt wet rechargeable battery
- for connection to all our 9 V electrical fences



ref. no.	SB	€
44641/011	1	

Connection and Grounding Accessories

Rope Connector Stainless Steel



stainless steel

ref. no.	use		SB	€
44540	for ropes ø 6 mm	10	-	
44540/051	for ropes ø 6 mm	-	5	
44541	for ropes ø 8 mm	10	-	
44541/051	for ropes ø 8 mm	-	5	



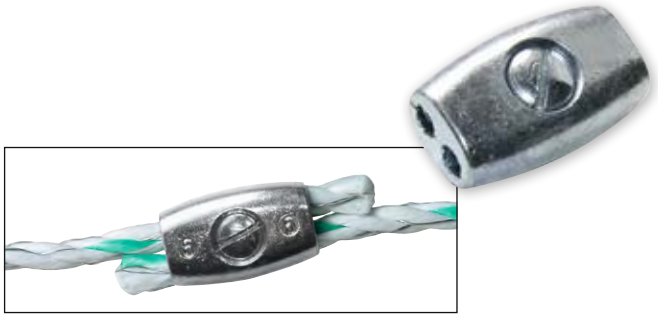
Rope Connector Galvanized



ref. no.	use		SB	€
44535	for ropes ø 6 mm	10	-	
44535/051	for ropes ø 6 mm	-	5	
44534	for ropes ø 8 mm	10	-	
44534/051	for ropes ø 8 mm	-	5	

Rope- and Wire Connector

- safe mechanical and electrical connection
- easy to mount with a screw driver
- galvanized



ref. no.	use		SB	€
441561	for polywire up to ø 2.5 mm	10	-	
441561/051	for polywire up to ø 2.5 mm	-	5	
441560	for rope up to ø 6,5 mm	10	-	
441560/051	for rope up to ø 6.5 mm	-	5	

Quick Rope/Polywire Connector

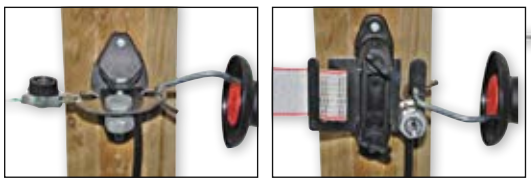
- allows ropes, polywires and tapes of up to 10 mm to be connected to gate insulators and handles quickly and easily by hand, resulting an a connection with optimal electrical conductivity
- galvanised design



ref. no.	SB	€
441209/041	4	

Wire Connector galvanized

- for the safe, vertical connection of fixed fence wire series and/or the underground cable with the fence wire





ref. no.		SB	€
441225	100	-	
441225/041	-	4	

Gripple Wire Connector

- the Gripple system repairs fences six times faster than conventional connectors

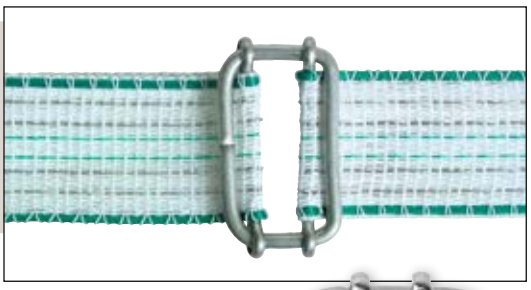


ref. no.	for wire Ø	operation load	SB			€
44707	1,0 - 2,0 mm	220 kg	-	20	300	
44706	2,0 - 3,25 mm	400 kg	-	20	200	
44706/066	2,0 - 3,25 mm	400 kg	6	-	-	
44703	Tension Tool	-	-	1	4	



Tape / Rope / Polywire and Wire Connectors

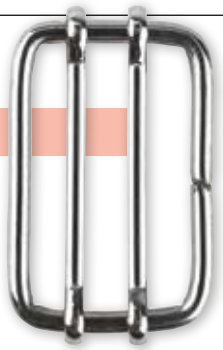
Do not tie fencing tapes together as otherwise a non stop electrification can not be guaranteed and live wires might break easily. To avoid this we recommend the use of our special tape connector.



Tape Connector Stainless Steel

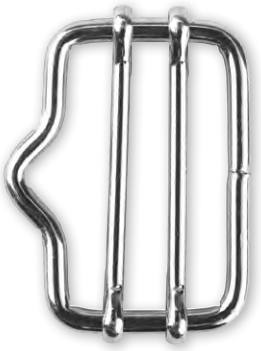
ref. no.	use		SB	€
44594	up to 13 mm tapes	10	-	
44594/051	up to 13 mm tapes	-	5	
44595	up to 20 mm tapes	10	-	
44595/051	up to 20 mm tapes	-	5	
44596	up to 40 mm tapes	10	-	
44596/051	up to 40 mm tapes	-	5	

stainless steel



Tape Connector galvanized

ref. no.	use		SB	€
44570	up to 13 mm tapes	10	-	
44570/056	up to 13 mm tapes	-	5	
44573	up to 20 mm tapes	10	-	
44573/056	up to 20 mm tapes	-	5	
44572	up to 40 mm tapes	10	-	
44572/056	up to 40 mm tapes	-	5	



Tape Connector Plates

- the new tape connecting plate optimally connects all the electrical wires of two interconnected tapes
- the connecting plate is made of stainless steel



It is also suited for hooking into the gate handle

ref. no.	use		SB	€
443457	10 - 20 mm tapes	5	-	
443457/051	10 - 20 mm tapes	-	5	
443458	40 mm tapes	5	-	
443458/051	40 mm tapes	-	5	



stainless steel

Premium Rope Connector

- 40 mm
- made from plastic / stainless steel
- specially for use with gate handles





ref. no.	SB	€
441291/041	4	

Litzclip® Tape and Rope Connector

- simple but perfect - the new, tool-free tape, rope and wire connectors from Litzclip® are self-evident in their function and can be integrated very quickly and easily into new and existing fence systems
- the stainless steel connectors ensure end-to-end electrification of the wire material and can withstand even high tensile forces
- extremely resilient sealing caps made from plastic with UV stabiliser - no regranulate! extremely long-lasting and impact-resistant.
- sliding the sealing cap outwards ensures the safe and quick securing of the wire material.
- narrow slit width of the sealing cap guarantees optimum contact between the wire material and the connecting plate and subsequently maximum conductivity.

Litzclip® from AKO – patented quality products that are "Made in Germany"

Made in Germany

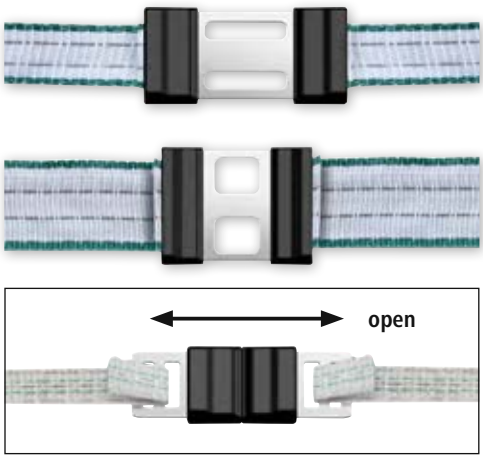
New!

Litzclip®



Tape Connector Litzclip®

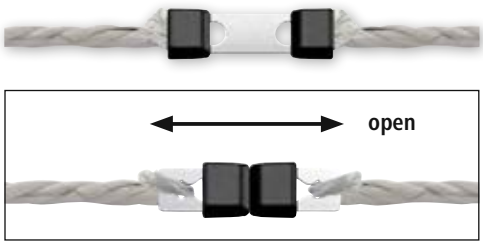
- easy connection of 2 tape ends
- the quick solution for repairing torn fence tapes
- special narrow, punched rectangular openings for the easy introduction and securing of the tape



ref. no.	use		SB	€
442000/051	12.5 mm tapes	stainless steel (INOX)	5	
442001/051	20 mm tapes	stainless steel (INOX)	5	
442002/051	40 mm tapes	stainless steel (INOX)	5	
442010/056	12.5 mm tapes	galvanized	5	
442011/056	20 mm tapes	galvanized	5	
442012/056	40 mm tapes	galvanized	5	

Rope Connector Litzclip®

- ideal for connecting 2 rope ends of up to 6 mm in diameter
- the quick solution too for repairing a torn fence rope
- special key-shaped punched opening for the easy introduction and secure fixing of the rope



ref. no.	use		SB	€
442004/051	for ropes of diameter 6 mm	stainless steel (INOX)	5	
442016/106	for ropes of diameter 5 mm	galvanized	10	
442017/106	for ropes of diameter 6 mm	galvanized	10	

Litzclip® Wire Connector

- ideal for connecting 2 wire ends of up to approx. 3 mm in diameter
- special key-shaped punched opening for the easy introduction and secure fixing of the wire
- extremely resilient sealing caps made from plastic for locking and pressing the wire to the metal plate in order to ensure maximum conductivity
- plastic caps made from PA plastic with UV stabiliser – no regranulate! extremely long-lasting and impact-resistant.
- suitable for use with all types of wire network



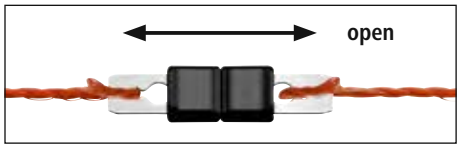




Wire Connector Litzclip®

- the straightforward solution too for repairing a torn wire

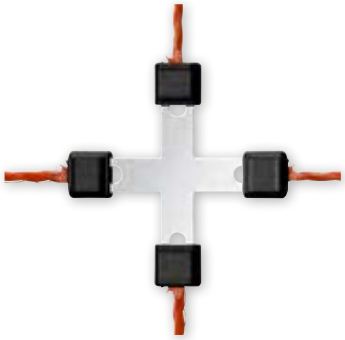




ref. no.	use	material	SB	€
442003/101	for wires up to 3 mm in diameter	stainless steel (INOX)	10	
442013/106	for wires up to 3 mm in diameter	galvanized	10	

Wire Cross-Connector Litzclip®

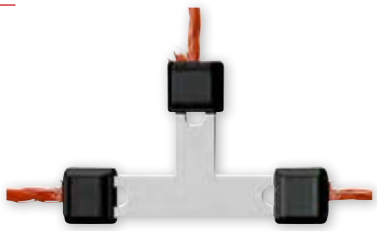
galvanized



ref. no.	use	SB	€
442014/056	for wires up to 3 mm in diameter	5	

Wire T-Connector Litzclip®

galvanized

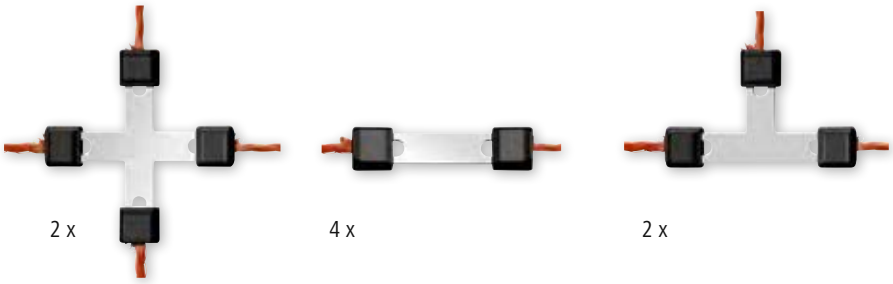


ref. no.	use	SB	€
442015/056	for wires up to 3 mm in diameter	5	

Repair Set Litzclip®

galvanized

- especially for repairing sheep, poultry and rabbit netting
- incl. 4x straight 3 mm wire connectors
- incl. 2x 3 mm wire cross-connectors
- incl. 2x 3 mm wire T-connectors



ref. no.		€
442018/081	1/100	

Super Big Reel

- extra-wide design
- 10 cm wider and approx. twice the volume of plastic reel Super
- suitable for approx. 1200 m tape (10 mm) or 2000 m polywire
- locking brake prevents drum from accidentally reeling on



Locking pin



ref. no.	description			€
441270	Super BIG reel	1	36	
441271	Spare reel for Super BIG	1	48	
441272	Stand for Super BIG reel	1	-	

Plastic Reel Super

- very hardwearing plastic reel (replaceable)
- capacity for about 600 m electric tape (10 mm) or 1000 m polywire
- locking pin prevents reel from accidental reeling on
- the ideal aid for fence building



Locking pin



ref. no.	description			€
44270	Reel complete	1	50	
44271	Spare reel	1	60	
44272	Stand only	1	250	

Euro Reel

- capacity for about 400 - 500 m polywire and up to 200 m tape (10 mm)
- reel Ø 180 mm



locking pin



ref. no.	description			€
441200	Euro Reel	1/5	200	
441201	spare reel for Euro reel	1/10	160	

Euro Reel Big

- capacity for about 700 - 800 m polywire and up to 400 m tape (10 mm)
- reel Ø 240 mm



locking pin



ref. no.	description			€
441205	Euro Reel BIG	1/5	150	
441206	spare reel for Euro Reel BIG	1/10	120	

The Porta Reel System for Temporary Fencing

A perfect professional reel system for temporary fencing systems that have to be assembled and disassembled quickly and for many years of use. The indispensable aid for modern fencing.



Multi post

• the ideal solution for corner and gate systems for mobile fencing (plastic, metal)

ref. no.	description			€
44297	Multi Post 120 cm, for 3 reels max.	1	50	
44299	Multi Post 165 cm, for 4 reels max.	1	50	





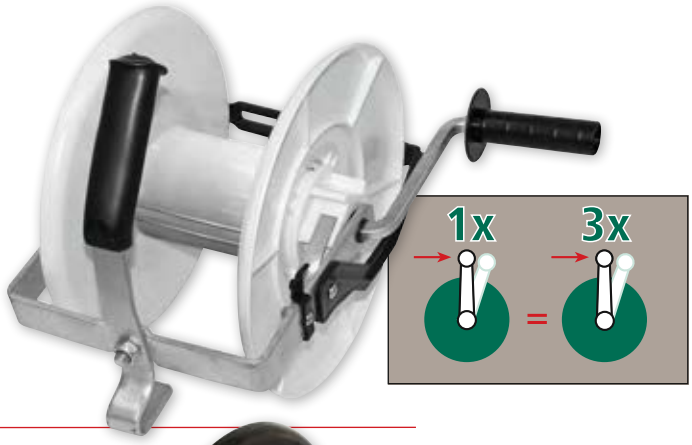




ref. no.	description		SB		€
44355/041	Gate insulator for tapes PROFI	-	4	88	
44350	Corner and fence line insulator PROFI	10	-	200	
441241	Gate handle insulator M6 x 30 mm	10	-	250	
44324	M6 x 30 mm	25	-	500	

Geared Reel 3 : 1

• save time by 3-way transmission
• special eye for well-directed wire routing
• impact-proof plastic guarantees durable use
• heavy-duty steel crank arm
• up to 600 m plastic polywire or about 200 m tape



ref. no.		€
44280	1	

Compact Reel

• impact-proof plastic guarantees durable use
• special eye for well-directed wire routing
• heavy-duty steel crank arm
• galvanized carry handle for manual use or for clipping into the portable reel system
• with locking ratchet
• up to 600 m plastic polywire or about 200 m tape



ref. no.		€
44296	1	

Mounting Bracket

• attaches reel

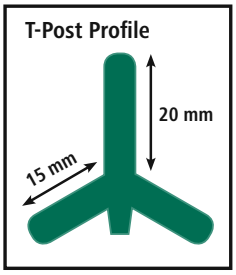
ref. no.		€
44298	1/50	

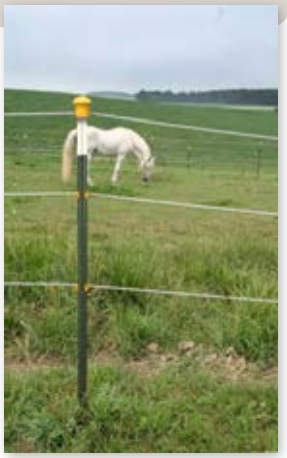
T-Post System

Top-quality T-Posts in varying lengths, easily driven in, for durable application. The posts have massive nubs every 55 mm across their entire length to fasten accessories. A solid base plate provides additional stability. The posts are painted to make them weatherproof. The Wedge Loc System makes it easy to install all-purpose fence applications such as fence corners and gates. We recommend approx. 30 cm longer T-Posts to be used for corner posts. Insulators are fastened by clipping firmly to the T-Post at the desired heights.

Metal T-Post

- made from robust steel
- green/grey laccquered
- with solid base plate
- drive into the ground about 40 cm
- perfect for horses, cattle and wild animal fences

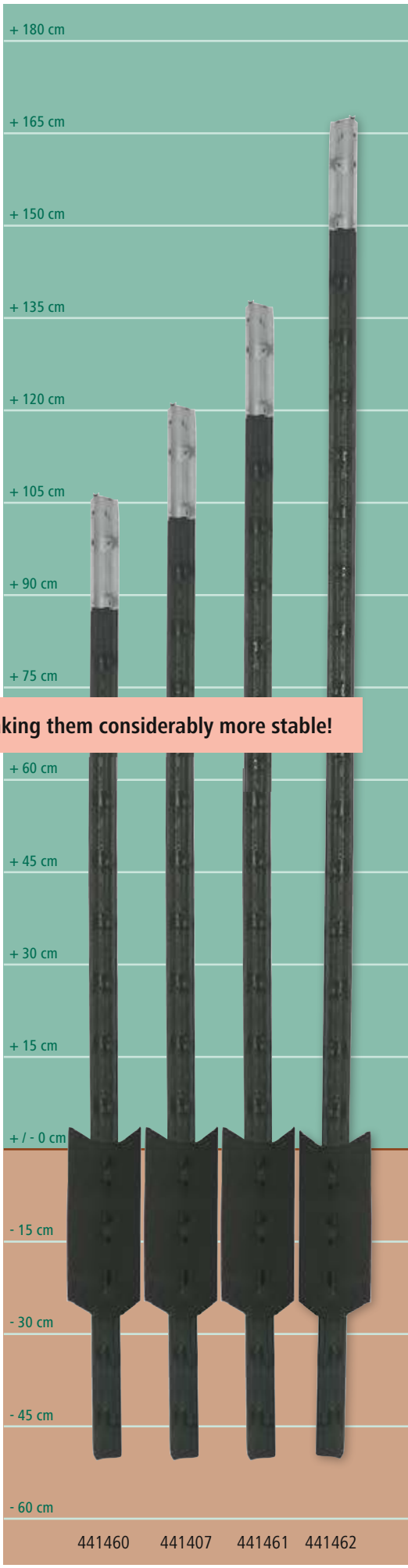




it has proved its worth a thousand times

ref. no.	total height			€
441460	152 cm	1/5	200	
441407	167 cm	1/5	200	
441461	182 cm	1/5	200	
441462	213 cm	1/5	200	

Made from rail steel - making them considerably more stable!



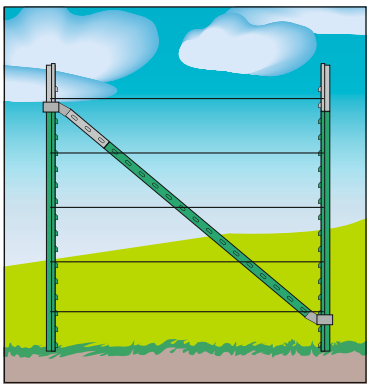
Support Kit T-Post

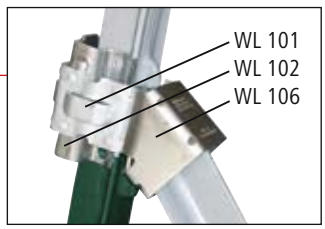
- ideal for gates
- connects T-posts diagonally
- support kit consists of: 2 x WL101, 2 x WL102 und 2 x WL106
- important: Remove ground anchor plate for diagonal pole!



WL 102 WL 106 WL 101

ref. no.		€
441466	1	





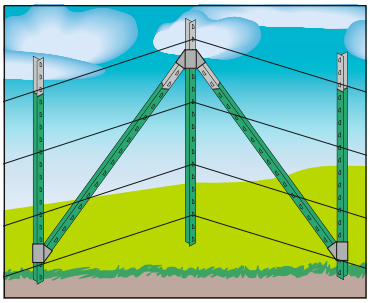
90° Corner Kits T-Post

- for installation of 90° corners with T-posts
- support kit consists of: 3 x WL101, 3 x WL102 und 4 x WL106
- important: Remove ground anchor plate for diagonal pole!



WL 102 WL 106 WL 101

ref. no.		€
441465	1	

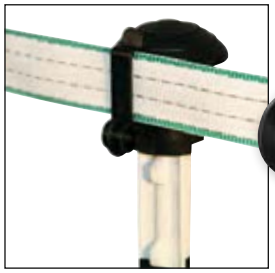


Top Insulator T-Post

- prevents animals from injuring themselves at the post top
- suits all conventional tapes, ropes, polywires and wires

We recommend use in combination with a post top insulator

ref. no.	colour			€
441267	black	10	200	
441268	yellow	10	200	





Cable Insulator T-Post

- can be used with cable up to 8 mm, polywire, wire and tape up to 10 mm
- very robust design

ref. no.	colour			€
441273	black	25	200	
441274	yellow	25	200	





Clip Ring Insulator T-Post

- for wire, polywire, rope and tape up to 10 mm

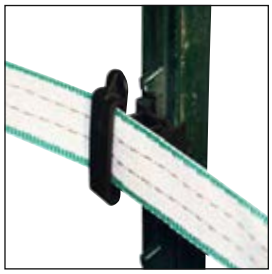
ref. no.	colour			€
44364	black	25	200	
443646	yellow	25	200	



Clip Tape Insulator T-Post

- for tapes up to 50 mm

ref. no.	colour			€
44365	black	25	200	
443656	yellow	25	200	





Distance Insulator T-Post

- distance insulator for rope, poly wire and wire
- distance of wire from post 12.5 cm

ref. no.	colour			€
442343	black	25	300	
442344	yellow	25	300	





Insulator Pinlock T-Post

Pinlock Insulator for rope, poly wire and wire

ref. no.	colour			€
442345	black	25	500	
442346	yellow	25	500	





T-Post Tape Insulator for Gate Handle Kit T-Post

- kit comprises: 2 insulators with stainless steel plates and 4 T-Post universal clamps
- robust tape insulator with stainless steel connecting plate for gate handle and pasture fence connection (gate handle not supplied)





ref. no.	description	€
441494	Kit complete	

T-Post Universal Clamp Kit T-Post

- kit comprises: 2 universal clamps and 2 fastening screws
- usage on the T-Post enables universal fitting of all insulators with M6 metric thread or with 6 mm diameter hole



ref. no.	description	€
44790	Kit complete	

Gate Handle Insulator T-Post

Set includes:
4 x gate handle insulator + 2 x T-post universal clamp kit





ref. no.	description	€
441231	Kit complete	

Tape Insulator and Corner Insulator T-Post

Set includes:
4 x tape insulator + 4 x universal clamp kit





ref. no.	description	€
441232	Kit complete	

Tape Insulator and Corner Insulator T-Post

Set includes:
4 x rope insulator + 2 x universal clamp kit





ref. no.	description	€
441233	Kit complete	

Ram for T-Post

- makes it easy to drive the t-post into the ground
- weight 9,5 kg





ref. no.		€
441324	1	

Pulling Device for T-Post

- makes it easy to pull out your T-post



ref. no.		€
441300	1	

Fibreglass Posts and Accessories

Round Fibreglass Post

made from solid material

- yellow
- ground nail made from fibreglass
- low weight
- round shape, 12 mm diameter
- extremely robust design with step
- ideal for cattle, horse and sheep pens
- insulators not included in the scope of delivery
- 5 years UV warranty

New!

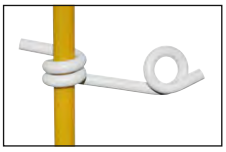
ref. no.	total height	spike			€
441852	125 cm	20 cm	10	1,750	
441856	140 cm	20 cm	10	1,750	
441858	160 cm	20 cm	10	1,750	

Plastic Eyelets

for round fibreglass post

- suitable for fibreglass posts of diameter 12 mm
- for stranded wires and wires
- height-adjustable

New!



ref. no.	description			€
444012		50	1,000	

Oval Fibreglass Post

- yellow / black
- oval
- perfect for keeping cows, horses and sheep
- supplied with a post top insulator and an additional, height-adjustable insulator
- ideal for stranded wires, wire and tapes up to 20 mm
- 5 years UV warranty



These posts impress with low weight and volume (alpine use, rotating pastures) as well as their unbelievable sturdiness!<

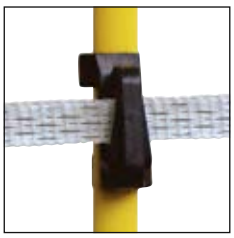
ref. no.	total height	description			€
444271	110 cm	13 cm, metal	10	1,750	
444272	154 cm	13 cm, metal	10	1,750	
444261	110 cm	15 cm, fibre glass	10	1,750	

Spare / Additional Insulator

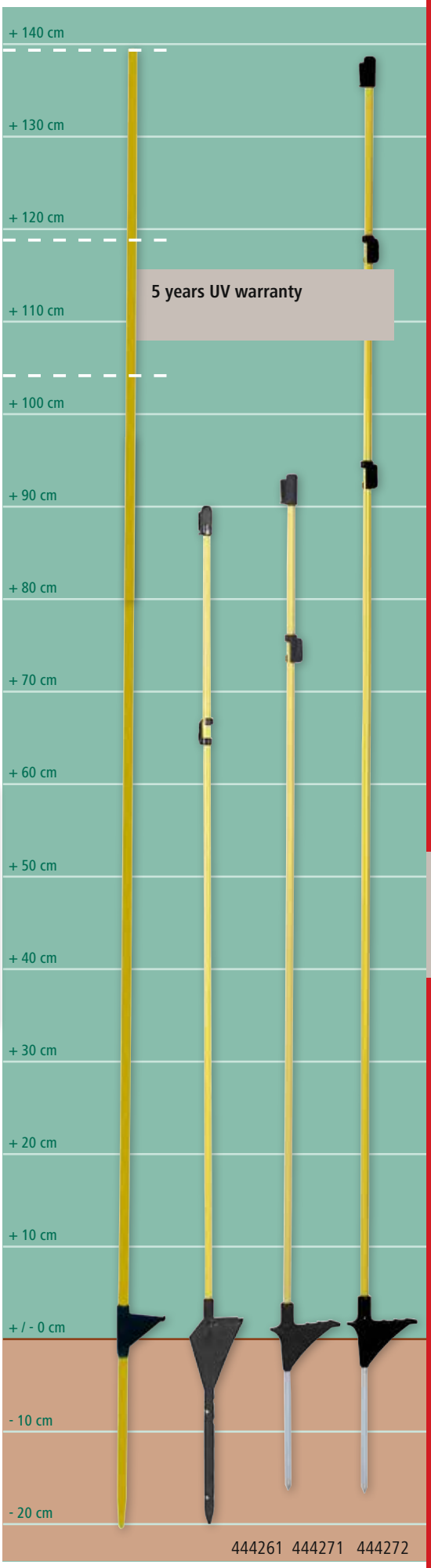
for oval fibreglass post

- variable height of wire
- absolutely secure attachment





ref. no.	use		SB	€
444263	Fibre Glass Post Oval	-	-	



Plastic Posts and Accessories

Plastic Post

- ø 19 mm
- with galvanized spike
- 5 years UV warranty
- spike 21 cm

5 years UV warranty

ref. no.	colour	total height	description			€
44400	white	106 cm	without step	10	1,000	
44405	white	106 cm	with step	10	1,000	
44499	white	158 cm	with step	10	1,000	

Additional Eyelets for Plastic Posts

- as additional eye for plastic posts Ø 19 mm
- for polywires and tapes
- adjustable height





ref. no.	plastic eye for		SB		€
44403	Polywire and Tape up to 10 mm	25	-	1,000	
44403/306	Polywire and Tape up to 10 mm	-	30	-	
44404	Tape up to 40 mm	25	-	750	
44404/306	Tape up to 40 mm	-	30	-	

Plastic Post Titan PLUS

- metal step-in reinforcement provides extremely high stability
- highly impact-resistant, high-grade plastic, virtually unbreakable
- also suited for sub-zero temperatures
- for all commonly available tapes, ropes, stranded or solid wires
- high stability through additional longitudinal struts
- with galvanized spike

with special honeycomb structure



3 years UV warranty

Metal step-in reinforcement provides extremely high stability

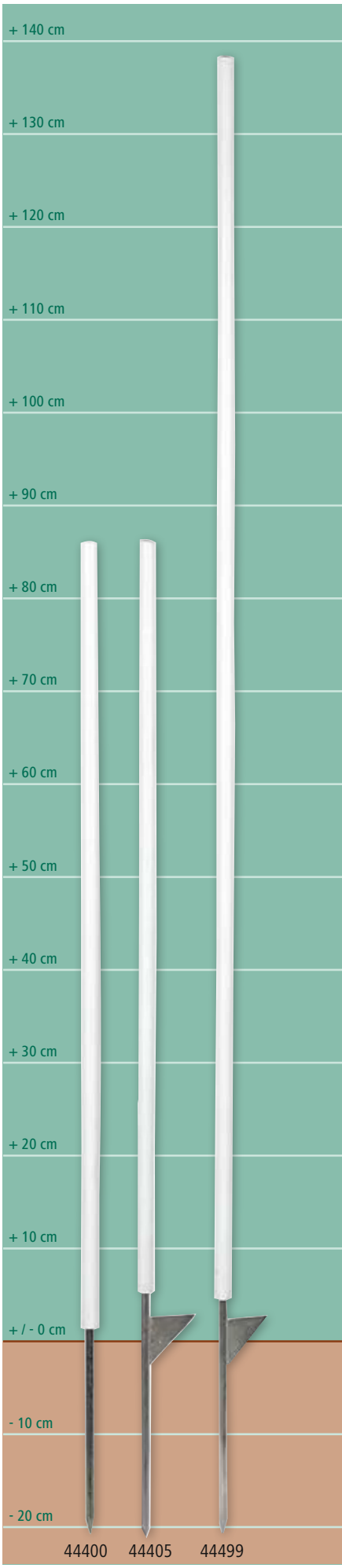


ref. no.	colour	total height	spike	eyes			€
4418083	blue	110 cm	18 cm	5 x Rope + 3 x Tape	5	490	
441808	white	110 cm	18 cm	5 x Rope + 3 x Tape	5	490	
441809	white	157 cm	20 cm	7 x Rope + 5 x Tape	5	500	

Plastic Post with Stirrup Step

- the post is very easily driven into the ground because the stirrup is positioned directly above the spike
- for all common tapes, ropes and polywires
- white or green
- with galvanized spike

ref. no.	colour	total height	spike	eyes			€
44417	green	114 cm	15 cm	3 x Rope + 7 x Tape	5	300	
44418	green	158 cm	15 cm	4 x Rope + 8 x Tape	5	360	
444170	white	114 cm	15 cm	3 x Rope + 7 x Tape	5	300	
444180	white	158 cm	15 cm	4 x Rope + 8 x Tape	5	360	




Titan Plus
+ 140 cm
+ 130 cm
+ 120 cm
+ 110 cm
+ 100 cm
+ 90 cm
+ 80 cm
+ 70 cm
fiberglass reinforced
+ 60 cm
+ 50 cm
+ 40 cm
+ 30 cm
+ 20 cm
+ 10 cm
+ / - 0 cm
- 10 cm
- 20 cm
4418083
441808
441809
44417
44418
444170
444180

Plastic Post Titan

- highly impact-resistant, high-grade plastic, virtually unbreakable
- also suited for sub-zero temperatures
- for all common tapes, ropes, stranded or solid wires
- high stability through additional longitudinal struts
- with galvanised earth pen

3 years UV warranty



with special honeycomb structure

ref. no.	colour	total height	spike	eyes			€
441802	white	110 cm	18 cm	5 x Rope + 3 x Tape	5	490	
441800	white	110 cm	18 cm	5 x Rope + 3 x Tape	5	350	
441801	white	157 cm	20 cm	7 x Rope + 5 x Tape	5	500	

Plastic Post Classic

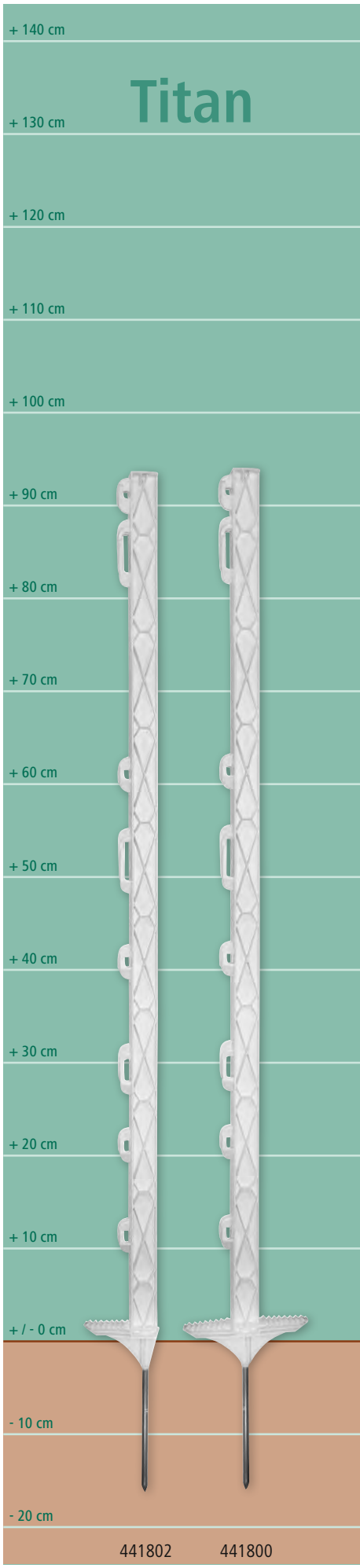
- for all conventional tapes, polywires, ropes and wires vertically
- reinforced for increased stability
- with galvanized spike

ref. no.	colour	total height	spike	eyes			€
44491	white	104 cm	15 cm	5 x Rope + 3 x Tape	5	500	
44497	white	105 cm	15 cm	5 x rope + 3 x tape	5	720	
44492	white	125 cm	18 cm	6 x Rope + 3 x Tape	5	500	
44493	white	156 cm	18 cm	7 x Rope + 4 x Tape	5	500	
444932	green	156 cm	18 cm	7 x Rope + 4 x Tape	5	500	

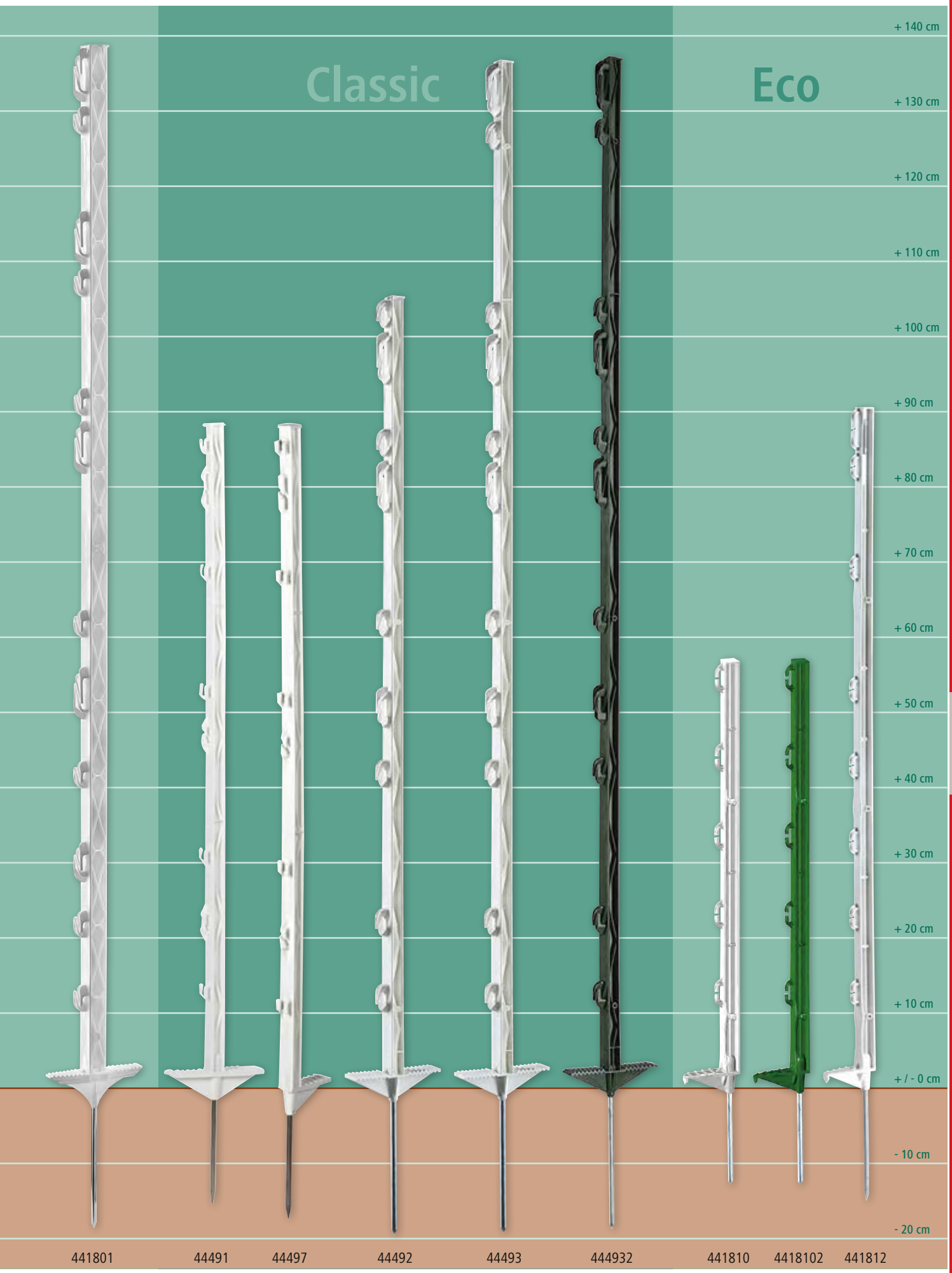
Plastic Posts Eco

- for all commonly available tapes, ropes, stranded or solid wires
- high stability through additional longitudinal struts
- with galvanized spike

ref. no.	colour	total height	spike	eyes			€
441810	white	70 cm	15 cm	5 x Tapes/Ropes	5	1,200	
4418102	green	70 cm	15 cm	5 x Tapes/Ropes	5	1,200	
441812	white	105 cm	15 cm	5 x Tapes/Ropes + 1 x Tape	5	1,000	



Plastic Posts and Accessories



Recycling Post

- very durable
- ideal for working on (screwing, nailing, sawing, drilling)
- fully insulated
- pointed on one side
- drive into the ground about 50 – 60 cm deep



ref. no.	total height	thickness			€
44460	130 cm	45 mm	1	300	
44462	150 cm	50 mm	1	300	
44465	180 cm	75 mm	1	60	
44474	185 cm	60 mm	1	250	
44467	200 cm	75 mm	1	60	
44469	220 cm	100 mm	1	33	

Angular Steel Post

- excellent for dry and rocky areas

ref. no.	total height	thickness			€
44421	115 cm	2 mm	10	500	
444213	115 cm	3 mm	10	500	
44453	165 cm	3 mm	10	500	

Angle Post Insulator

- made of polypropylene
- durable
- incl. metal pin



ref. no.				€
44408	25	500	-	
44408/1007	-	-	100	

Multi Post for use at Corners and Gates

- The perfect solution for use with corner and gate systems for mobile fencing (plastic, metal)

ref. no.	description			€
44297	Multi Post 120 cm, for 3 reels max.	1	50	
44299	Multi Post 165 cm, for 4 reels max.	1	50	



Round Steel Post and Oval Steel Post

- made of spring steel
- with large top insulator
- heavy-duty tread-in
- about 20 cm spike
- colour red

ref. no.	total height	description	thickness				€
441457	105 cm	oval	11 x 5 mm	10	30	720	
441458	105 cm	round	Ø 8 mm	10	30	720	
441455	103 cm	oval	11 x 5 mm	10	30	720	
441456	103 cm	oval	11 x 5 mm	10	30	720	

ref. no.	use		SB		€
441315	Spare Insulator Clip oval	25	-	400	
441315/251	Spare Insulator Clip oval	-	25	300	
441316	Spare Insulator Clip round	25	-	400	
441317	Spare Top Insulator oval	25	-	500	
441317/201	Spare Top Insulator oval	-	20	240	
441318	Spare Top Insulator round	25	-	500	
44432	Spare Top Insulator oval with eye	25	-	500	
44433	Spare Ring Insulator oval	25	-	500	









Pigtail Post

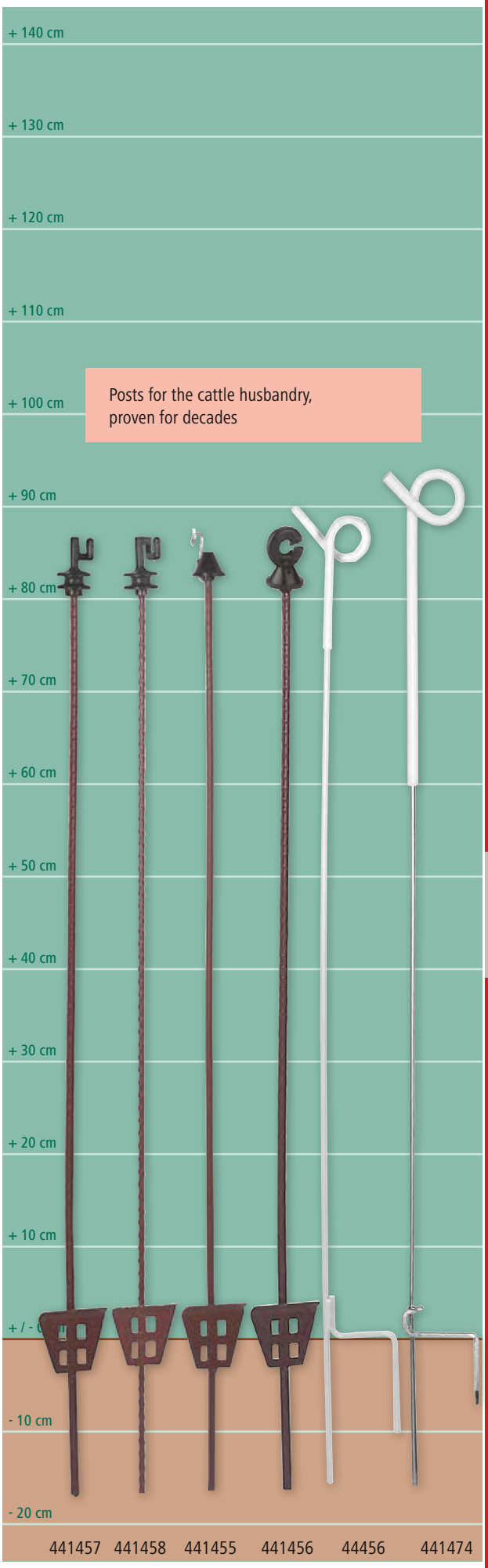
- white post with eye
- total height 105 cm
- with aprox. 15 cm double prong
- thickness of material Ø 7 mm

ref. no.	total height			€
44456	105 cm	10	1,000	

Spring Steel Post with Eyelets

- galvanised post with eyelet
- total height 109 cm
- with approx. 17 cm double prong
- material thickness 6.5 mm

ref. no.	total height			€
441474	109 cm	10	1,000	



Wooden Posts for Permanent Fencing

Octo Wood

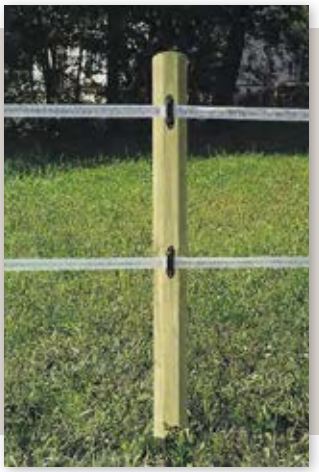
- the new Octo Wood post with the ingenious octagonal profile made of Pinius Silvestris = pine wood
- thus provides simple mounting without predrilling
- this post is also well-suited for erecting a wooden fence
- furthermore, the octagonal profile also ensures a secure rest in pallets and allows for excellent transportation without rolling
- highly effective pressure impregnation with ecological wood protection preservative in accordance with 68800-3 standard
- sensational 10-year warranty !!

Ideal for corner-, gate-, first- and last post

ref. no.	description	total height	Ø			€
441827	Corner-/gate post	200 cm	140 mm	1	48	
441828	Corner-/gate post	250 cm	140 mm	1	48	
441820	Fence Line post	150 cm	60 mm	1	252	
441821	Fence Line post	200 cm	60 mm	1	252	
441822	Fence Line post	180 cm	80 mm	1	154	
441823	Fence Line post	200 cm	80 mm	1	154	
441824	Fence Line post	225 cm	80 mm	1	154	
441825	Fence Line post	200 cm	100 mm	1	99	
441826	Fence Line post	225 cm	100 mm	1	99	

Raw materials
OctoWood uses only slow-growing Scandinavian pine grown north of 64 degrees latitude.

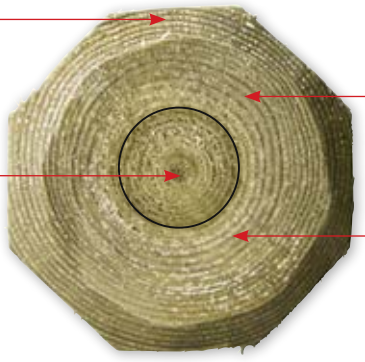
- **Low temperatures**
- **Short sunlight hours**
- **Smaller tree crowns**
- **Straight trunk**
- **Extremely rigid**
- **High breaking load**





Consistent growth rings = steady growth

Narrow growth rings = slow growth



Heartwood

- does not have to be waterproofed
- contains the natural fungus inhibitor "pinosylvin"
- with resin channels throughout
- "dead" wood
- gives the pole stiffness

Hoch much copper sulphate is inserted into the Heartwood? CTBA 9,4 kg/m3

Sapwood

- only the sapwood section is water-proofed
- the membrane of the wood fibre cell is coated in a copper sulphate layer
- waterproofed with Wolmanit CX in a pressure tank process

Wooden Posts for Permanent Fencing

OctoPaddock

One system includes posts, cross-bars and a gate for constructing fencing for a riding area, animal compound, or similar uses, with dimensions of 60 x 20 m

Advantages:
- easy to assemble (includes detailed assembly instructions)
- no chromium or arsenic
- complete delivery includes gate

List of materials:
- 55 posts, 100 x 2000 mm
- 99 cross-bars (half-rounded), 100 x 3500 mm
- 2 gate posts, 120 x 2800 mm
- 2 gates with hinges, 2 x 1300 mm
- 400 screws, 4.0 x 40 mm
- 240 screws, 5.0 x 90 mm

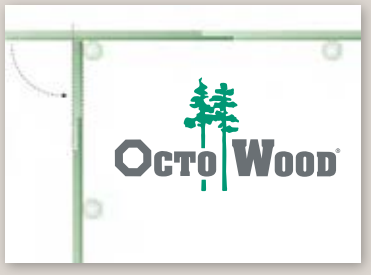
Each cross-bar represents 3250 mm assembled length.

To extend your paddock you just have to add extra crossbars!

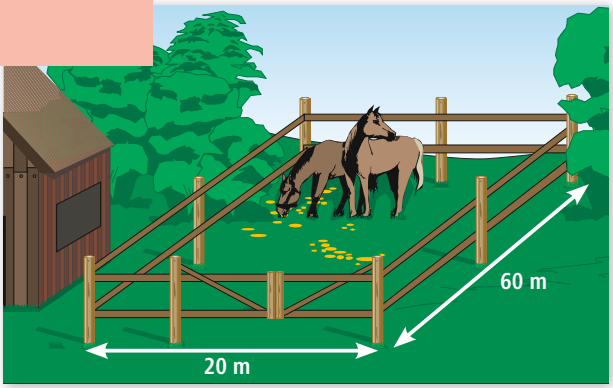




Complete system with 60 m x 20 m



Sketch of sample arrangement With the special connecting system (see illustration), you can easily assemble the cross-bars for your system as you like. Suspension between individual posts is not necessary.





ref. no.	description			€
441830	Complete system, 60 m x 20 m	1	-	
441835	Extra cross-bars, 3.5 m	1	99	
441836	Double gate with hinge, 2 x 1.3 m	1	-	
441837	Single gate with hinge, 1 x 1.3 m	1	-	

Sledge Hammer

- 5 kg
- made of break-proof plastic



ref. no.		€
441422	1	

Ring Insulators with continuous support

The robust insulators with metal cores



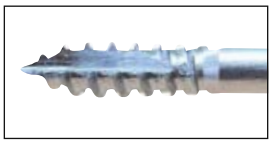
EDX - the self-cutting thread

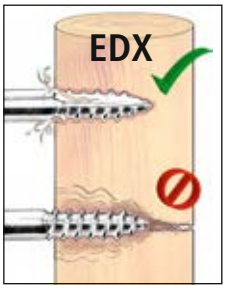


Easy Drill Ring Insulator EDX

with continuous support

- with continuous solid 6 mm support and new self-cutting thread
- twice as easy to screw in as standard supports; the wood is "cut" not "displaced"
- no need for pre-drilling for hard wood
- far less fracturing in wood when screwed in
- best possible insulation properties
- impact resistant plastic





ref. no.	colour		SB			€
443269	black	25	-	500	-	
443269/201	black	-	20	280	-	

75 EDX Ring Insulators per Bucket + Free Screwdriver

- 75 ring insulators incl. end-to-end zinc-plated support
- 1 free screwdriver
- with new self-drilling woodscrew





ref. no.			€
443269/753E	1	96	

20 % benefit

New!

Ring Insulator compact

with continuous support

- galvanized 5.3 mm support
- wide wire run





ref. no.	colour		SB			€
44314	black	25	-	500	-	
44314/251	black	-	25	350	-	

100 Ring Insulator in Box + Screw Bit Free of Charge

- 100 ring insulators # 44314 per bucket
- 1 screw bit free of charge





ref. no.			€
44314/1003E	1	112	

Ring Insulators with short support

The insulators with excellent insulation characteristics



EDX - the self-cutting thread

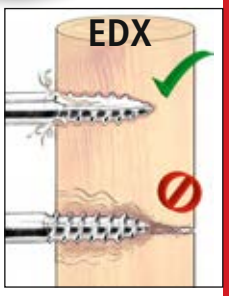


Easy Drill Ring Insulator EDX

with short support

- with short 6 mm support and new self-cutting thread
- twice as easy to screw in as standard supports; the wood is "cut" not "displaced"
- no need for pre-drilling for hard wood
- far less fracturing in wood when screwed in
- best possible insulation properties
- impact resistant plastic





ref. no.	colour		SB			€
443279	black	25	-	500	-	
443279/201	black	-	20	280	-	

Ring Insulator compact

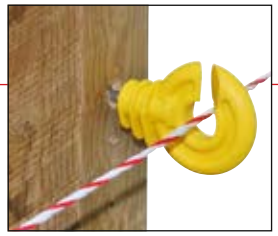
with short support

- galvanized 6.0 mm support
- wide wire run





ref. no.		SB			€
44316	25	-	500	-	
44316/251	-	25	350	-	
44316/903	-	-	-	90	



Ring Insulator

with short support

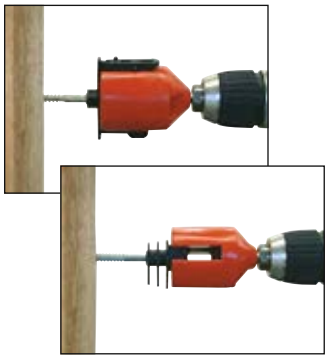
- galvanised 6.0 mm support



ref. no.	colour		SB			€
44306	black	25	-	500	-	
44306/251	black	-	25	350	-	
44306/903	black	-	-	-	90	
44318	red	50	-	500	-	
441342	yellow	25	-	500	-	

Screw Bit for all Ring Insulators and Maxi Tape Insulator

- for drills and battery screwdrivers
- easily screwed in due to its round shape
- as well as all ring insulators, also suitable for Maxi Tape Insulator 441390 and Allgäu 441381



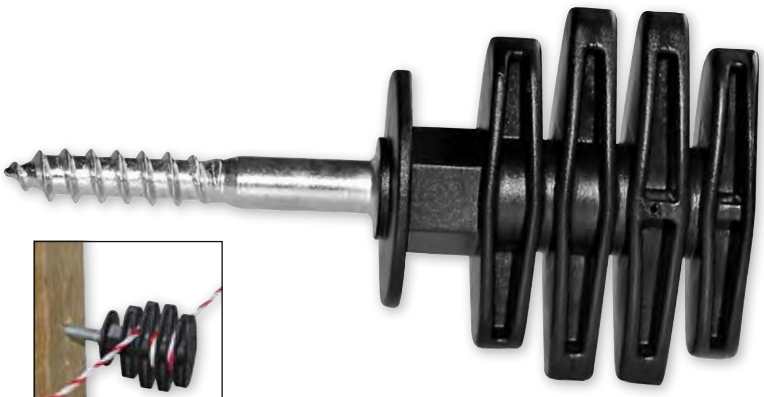


ref. no.	SB	€
441363/011	1	

Slit Insulators / Ring Insulators

Wrap-Insulator Allgäu

- easy to tighten / fix in place by winding the conductor material around the insulator
- suitable for strands and wire
- galvanised 6 mm support
- tough plastic with UV protection
- can be screwed in using screw aid 441363



ref. no.			€
441381	25	500	

Slit Insulators

- excellent insulation qualities
- galvanized support
- screws on wood
- for polywire and wire











ref. no.	colour	description		SB		€
44300	black	5,3 mm	25	-	500	
44300/301	black	5.3 mm	-	30	420	
44305	red	5,3 mm	100	-	1,000	
44302	yellow	6,0 mm	25	-	500	
44302/251	yellow	6.0 mm	-	25	350	



Polycarbonate = highly break-proof and durable!

Ring Insulator Super BIG

- galvanized 6 mm support
- for solid/stranded wire, rope and 10 mm tape
- with wide slit for rope
- short support





ref. no.	colour			€
441385	black	25	500	

Premium Combi-Insulator

with short support

- unites different conductive material applications (polywire, 10/20 tape, rope and wire) in ONE insulator
- 6 mm metal support
- excellent insulation characteristics due to large, wide drip-zones emphasise the high quality of this new insulator





ref. no.	colour		SB			€
441370	red	25	-	500	-	
441370/351	red	-	35	420	-	

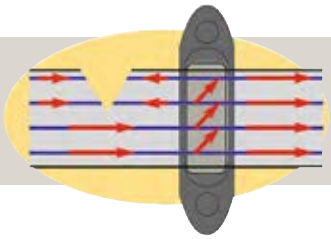
it has proven its worth more than a hundred thousand times

Corner Insulators / Tape Insulators

Corner and Distance Insulator

- electrically conductive rubber through carbon fibres - patented!
- anti-slip by alternating rubber pad structure
- end or strain insulator, also excellent for corners
- mounts easily and strains tapes without fatigue

Individual interrupted / broken conductor wires are re-electrified by the electricity-conducting rubber!







ref. no.		SB		€
44350	10	-	200	
44350/061	-	6	300	

PROFESSIONAL TIP
Very popular for paddock fences!

Corner Insulator

- for tapes 40 - 60 mm
- screw-in or nail-on insulators





ref. no.			€
44347	10	100	

Corner Insulators with Buckles

- for 40 mm tape
- easy to hang in gate handles
- forks off in different directions
- screw-in or nail-on insulator





ref. no.			€
44348	10	100	

Premium Tape Tensioner

- for broad-bands of up to 40 mm
- for tightening
- easy tape loosening
- simple to add on to existing fence systems
- simple, secure tensioning by hand without tools - notch function







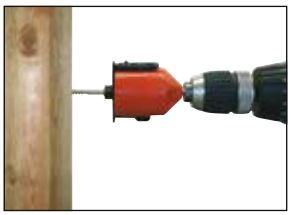


ref. no.		SB		€
44578	10	-	100	
44578/041	-	4	56	

AKO AGRARTECHNIK

Clip Insulator Maxi Tape

- galvanized 6 mm metal support
- for tapes up to 40 mm and ropes up to 6 mm
- patented



Suitable screw-in device see page 81



ref. no.		SB			€
441390	25	-	500	-	
441390/301	-	30	360	-	
441390/803	-	-	-	80	

Clip Insulator Easy Tape

- for tapes up to max. 40 mm as well as polywires up to Ø 6 mm
- ideal fence line insulator
- patented





ref. no.		SB			€
441391	25	-	500	-	
441391/251	-	25	300	-	
441391/753	-	-	-	75	

Tape Insulator

- ideal for polytapes up to 20 mm
- sturdy galvanized 6 mm support
- with wood screw





ref. no.		SB		€
44309	25	-	500	
44309/151	-	15	210	

Our best-selling Tape Insulators for 20 mm tapes!



Premium Clip Insulator

- optimised and protective tape fitting using a 'clip' method
- UV stabilised
- can be fitted using screws or nails
- easy to use with existing fencing
- recommended for distance insulator



Professional Advice: Use as Line Insulator!



ref. no.		SB			€
441290	10	-	200	-	
441290/141	-	14	350	-	

Profi Clip Insulator

The slip-proof rubber pad holds tapes up to 40 mm eliminating tape wear and increases the service life of tapes

- UV stabilized
- screw-in or nail-on insulator
- allows fatigueless integration in already installed fence systems
- recommended as line insulator





ref. no.			€
44359	10	200	

Insulator for Tapes up to 20 mm

- solid and durable type
- screw-in or nail-on insulator
- tape passes through – thus easy straining of hot tape over longer runs of fence



ideal use together with insulator 44350



ref. no.			€
44343	10	200	

Insulator for Tapes up to 40 mm

- solid and durable type
- screw-in or nail-on insulator
- tape passes through – thus easy straining of hot tape over longerruns of fence



ideal use together with insulator 44350



ref. no.		SB			€
44340	10	-	200	-	
44340/121	-	12	144	-	

Rope Insulator Euro Cord

- heavy-duty insulator made of break-proof plastic
- screw in or nail on
- 10 years warranty for UV resistance
- black
- ideal for ropes up to 8 mm and AKO Horse Wire






ref. no.		SB			€
441396	10	-	200	-	
441396/201	-	20	240	-	
441396/503	-	-	-	50	

10 years UV warranty

Permanent Fencing Insulator Highland

- black
- professional insulator for permanent fencing
- nail-on or screw-in insulator
- ideal for steel wires




10 years UV warranty

ref. no.		SB			€
441398	10	-	200	-	

EasyCord Rope Insulator

- heavy-duty insulator made of break-proof plastic with self-drilling wood screw
- galvanized 6 mm support
- ideal for ropes up to ø 8 mm and polywires





ref. no.		SB			€
441382	25	-	500	-	
441382/301	-	30	360	-	
441382/703	-	-	-	70	

Insulator Pinlock

- heavy-duty insulator
- ideal for all ropes up to ø 8 mm polywires and steel wires



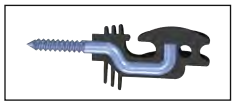


ref. no.				€
441495	25	500	-	

Corner Insulator Super



- for ropes and stranded or solid wires
- extra-strong design, highly robust
- galvanised, continuous 8 mm support for 100 % stability
- polyamide plastic for high tensile forces
- There is practically no electrical conduction, firstly because of the highly insulated supports, and secondly because of the special shape of the insulator, which prevents the conductor material from slipping onto the metal support.







the perfect corner solution

ref. no.		SB		€
441330	10	-	250	
441330/061	-	6	-	

Corner Insulator for Polywires and Ropes

- with glass fibre reinforcement
- bobbin with solid 7 mm support
- swivel insulator

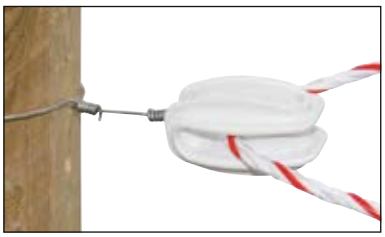




ref. no.	SB			€
44330	-	25	250	

Strain Insulator for Ropes

- with fibreglass reinforcement
- suitable as corner and strain insulator
- important aid in fence construction





ref. no.	colour		SB		€
44334	white	25	-	250	
44334/061	white	-	6	300	
44335	black	25	-	250	

Strain Insulator Polyamide for Steel Wire

- with fibreglass reinforcement
- suitable as corner and strain insulator inpermanent fencing (plain wire)
- resists especially high strains

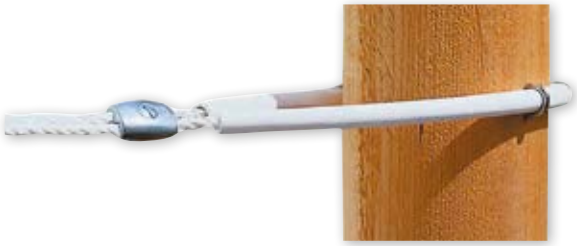




ref. no.				€
44358	10	-	250	

Tube Insulator

- for AKO Horse Wire and rope up to 8 mm
- polyethylene tube as corner insulator in permanent fencing
- attaches with staple
- length 60 cm



ref. no.	length	up to		€
44392	60 cm	8 mm	10	

Insulators with metric thread

Fastening Ring for Round Posts

- for 35 - 70 mm round posts
- incl. rubber inlay to protect the posts
- to fasten insulators with metric thread M6



ref. no.			€
441276	1	20	

Ring Insulator with Metric Thread

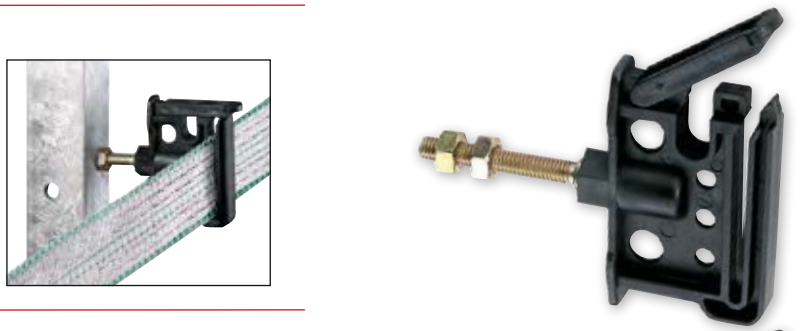
- black
- galvanized 6 mm support
- sturdy plastic body
- 2 distance rings



ref. no.	support	use		SB		€
44324	M6 x 30 mm	Metal post	25	-	500	
44324/201	M6 x 30 mm	Metal Post	-	20	280	
44391	M6 x 80 mm	tube post	25	-	500	

Tape Insulator with Metric Thread

- with metric thread M6
- for tapes up to 40 mm width and polywire up to 6 mm
- 2 nuts included in scope of supply



ref. no.			€
441392	25	500	

Offset Tape Insulator with Metric Thread

• keeps live wires away from the posts • with metric thread M6 • with support of 20 cm length • for tapes up to 40 mm width • 2 nuts included in scope of supply



ref. no.			€
441393	10	300	

Corner Insulator with Metric Thread

- reinforced model
- role complete with solid support and metric thread M6
- rotatable insulator
- 2 nuts included in scope of supply



ref. no.			€
441394	25	250	

Gate Handle Insulator with Metric Thread

• hooks in gate handles from both sides • with galvanized 6 mm support • with metric thread M6 • 2 nuts included in scope of supply

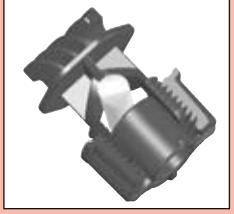


ref. no.			€
441241	10	250	

Screw Insulator Vario Plus

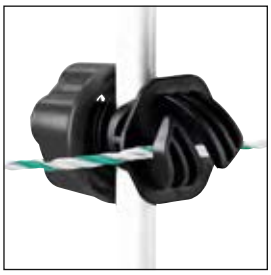
- for metal or plastic posts up to ø 17 mm
- mounted on side of post and easily tightened
- Impact resistant plastic – very robust
- patented





Strip protection:
The thread can no longer strip!









ref. no.	use		SB			€
441386	for tapes up to 40 mm width	10	-	200	-	
441386/151	Tapes up to 40 mm	-	15	375	-	
441387	for polywire, wire and rope	10	-	200	-	
441387/201	polywire, wire and rope	-	20	320	-	

Nail-on Insulator

- suits polywire and wire
- supplied with nail





ref. no.	description			€
44367	with 7 cm nail	50	700	
44368	with 10 cm nail	50	400	

Nail-on Insulator

- with knob
- used for polywire and steel wire
- delivery without nail





ref. no.			€
44360	100	1,800	

Nail-on Insulator

- secures polywire or steel wire
- delivery without nail



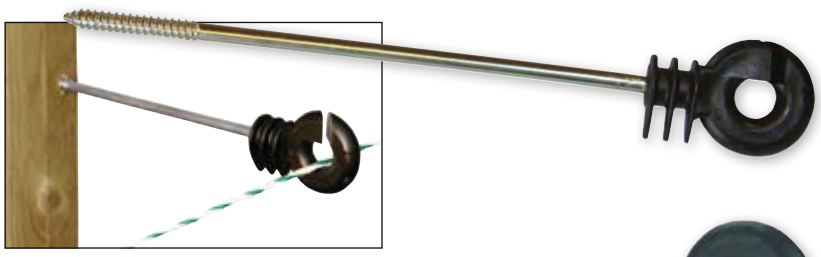


ref. no.			€
44361	100	1,800	

Offset Ring Insulator

- keeps live wires away from the posts
- with support of 22 cm length

ref. no.			€
441480	10	300	



Offset Ring Insulator

- keeps live wires away from the posts
- with support of 22 cm length
- for ropes up to ø 8 mm polywire

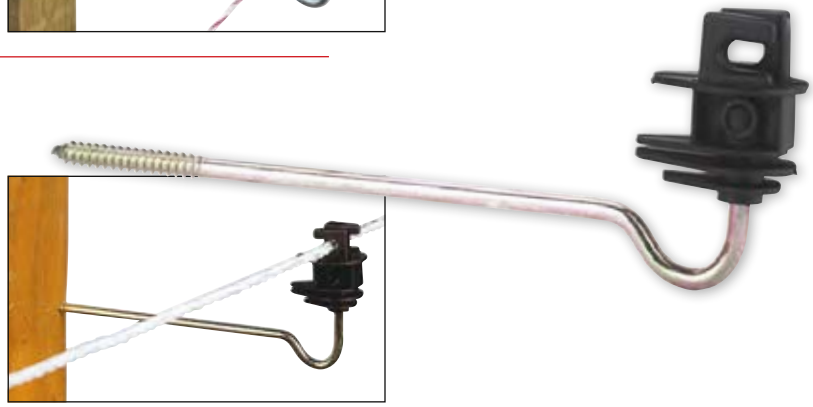
ref. no.		SB		€
44310	10	-	300	
44310/151	-	15	180	



Offset Rope Insulator

- keeps live wires away from the posts
- with support of 22 cm length
- for electric ropes up to ø 8 mm

ref. no.			€
44385	10	200	



Offset Tape Insulator

- keeps live wires away from the posts
- with support of 22 cm length
- for tapes up to 20 mm width

ref. no.		SB		€
44312	10	-	300	
44312/151	-	15	180	



Offset Tape Insulator

- keeps live wires away from the posts
- with support of 20 cm length
- for tapes up to 40 mm width

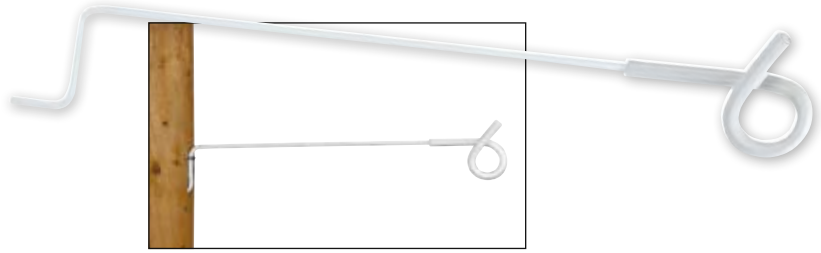
ref. no.		SB		€
441395	10	-	300	
441395/151	-	15	180	



Offset Pigtail Insulator

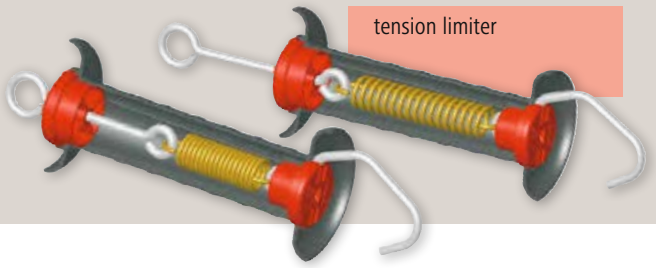
- support of 40 cm length
- attaches with staple (44394)

ref. no.			€
44448	10	50	



Gate Handles

- **With tension limiter to prevent over-stretched spring**
- **Heavy-duty quality**
- **UV-stabilised plastic**
- **Excellent insulation**



Premium Gate Handle with Tape Connector

- with hooks and 40 mm tape attachment
- made from stainless steel, guaranteeing excellent corrosion resistance
- with tension limiter



Stainless steel

ref. no.	description	MQ		€
44949	Gate Handle with Tape Connector	5	1/5/100	

ref. no.	description	SB		€
441291/041	Premium Rope Connector	4	200	



Gate Handle with Tape Connector

- with hook and tape connector 40 mm
- with tension limiter



ref. no.	colour	MQ		€
44947	black	5	1/5/100	

Gate Handle with Rope Connector*

- newly designed gate handle incl. rope and polywire connector (already fixed to the gate handle)
- also suitable for tapes from 10 to 20 mm
- with hook
- with tension limiter



ref. no.	colour	MQ		€
44948	black	5	1/5/100	

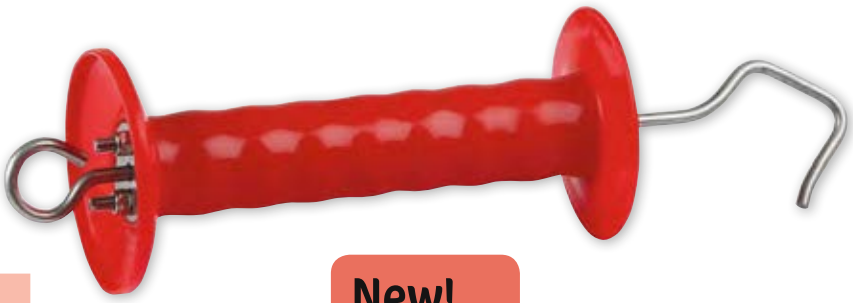
ref. no.	description		€
441209/041	Quick connector for Polywire and rope	4	



*Advantage: no tools are necessary - optimal electrical connection can be achieved simply with a locating screw. Also ideal for readjusting tension.

Premium Plus Gate Handle

- with hook
- robust, durable gate handle through screwed metal sealing caps
- with tension limiter
- made from stainless steel



New!

ref. no.	colour	MQ		€
44966	red	10	1/10/50	

Premium Gate Handle

- with hook
- made of stainless steel for excellent corrosion resistance
- prevents over-stretched springs



stainless steel

ref. no.	colour	MQ			€
44944	red	5	1/5/100	2,200	

Gate Handle

- with eye
- with tension limiter



ref. no.	colour	MQ			€
44940	black	5	1/5/100	2,200	

Gate Handle

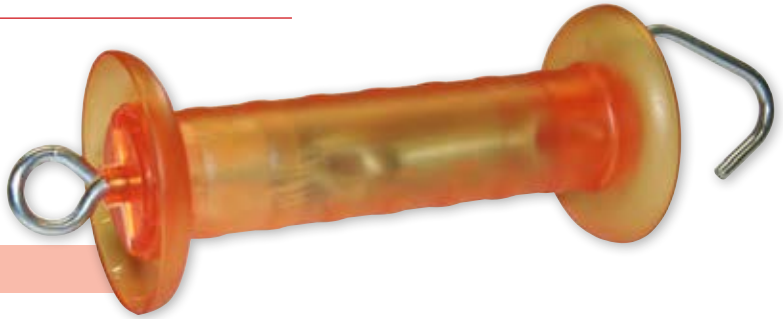
- with hook
- with tension limiter



ref. no.	colour	MQ			€
44941	black	5	1/5/100	2,200	

Gate Handle

- with hook
- increased UV resistance by polycarbonate
- prevents over-stretched springs



polycarbonate = highly break-proof and durable!

ref. no.	colour	MQ		€
44943	orange	5	1/5/100	

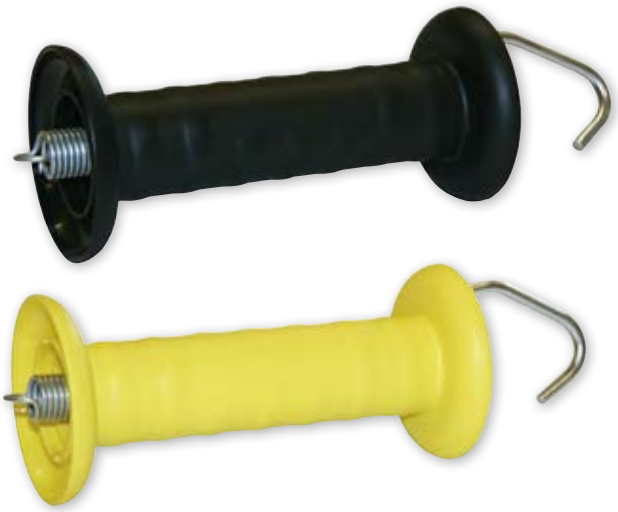
Gate Handle

- with hook
- with simple tension spring
- galvanized

ref. no.	colour	MQ			€
44951	black	5	1/5/100	2,200	
44957	neon pink	5	1/5/100	2,200	
44958	neon purple	5	1/5/100	2,200	
44959	neon green	5	1/5/100	2,200	
44960	neon orange	5	1/5/100	2,200	
44953	yellow	5	1/5/100	2,200	



New!



Gate Lock

Lockable gate system

Insert the gate handle into the mounting plate - push the safety covering across - lock the padlock - finished! The gate handle is now fixed to the locked security casing, thus ensuring that only authorised persons have access to the field.

The set is made up of:
- gate handle insulator with strong plastic and stainless steel mounting plate
- gate handle with spring tension limiter
- two-part security casing: wall or post fixture + safety cover
- 2 fastening screws
- brass padlock with two keys



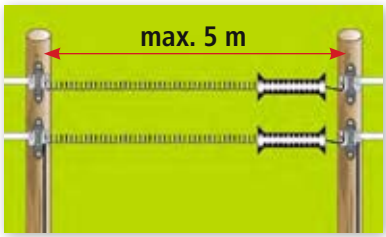


ref. no.		€
441235	1	

Gate Kit

- stretches up to about 5 m

Kit consists of:
1 gate handle with hook
1 special spring
2 x gate insulators
(not suitable for horse containment)





ref. no.	description	SB		€
44945	Kit with Ring Insulator and Gate Insulator	-	1/15	
44945/011	Kit with 2 Gate Insulators	1	1/12	
44246	Spare spring galvanized	-	1/20	

Profi Gate Insulator for Tapes

kit consists of: 4 insulators and 4 tape joiners
- solid tape insulator with stainless steel tapejoiner for gate handle and fencer connection





stainless steel

ref. no.	description	SB		€
44355/041	Kit complete	4	1/22	
443453	Spare Tape Jointer	-	1/10/400	

Gate Handle Insulator Vario

Set includes:
2 x insulators, 2 x connection plates which allow to connect 3 gate handles each



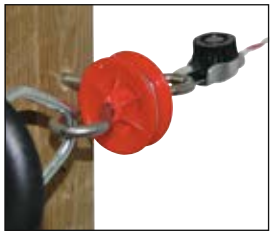


stainless steel

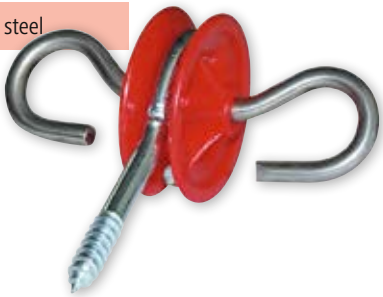
ref. no.	SB		€
44237/021	2	100	

Gate Handle Insulator stainless steel

- hooks in gate handles from both sides
- practical and safe
- 360° swivel loop



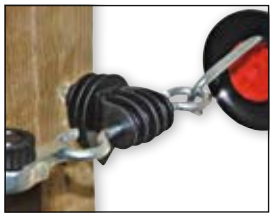
stainless steel



ref. no.		SB		€
44254	10	-	250	
44254/061	-	6	300	

Gate Handle Insulator

- new, very sturdy gate handle insulator with 6 mm wooden screw hooks in gate handles from both sides or gate handle and conductors





Advantage: loops can not be twisted

ref. no.		SB		€
441248	10	-	250	
441248/061	-	6	300	

Quick Rope/Polywire Connector

- allows ropes, polywires and tapes of up to 10 mm to be connected to gate insulators and handles quickly and easily by hand, resulting an a connection with optimal electrical conductivity
- galvanised design





ref. no.	SB	€
441209/041	4	

Electric Fence Gate
Electro Gate

Set includes:
2 sticks, 2 hinges and insulated ground cable (44283 consists of 1 stick, 1 hinge and ground cable)

- powered by fencers and easy to integrate in already installed fence systems
- available for entrances of 3.60 m, 5 m or 6 m as well as mini electro gate of 1.20 m
- does not scratch the paintwork off vehicles, because the flexible fibreglass sticks are covered with conductive rubber
- insulated gate handles for pedestrians
- the physical law of the faraday cage protects the driver of a motor car or tractor against electric shocks
- opens in both directions and self-closing behind
- lockable in open position











44283



ref. no.	description		€
441287	Electric Gate Kit complete 6,00	1	
44281	Electric Gate Kit complete 3,60 m	1	
44282	Electric Gate Kit complete 5,00 m	1	
44283	Mini Electric Gate 1,20 m	1	
441288	Spare Stick 3,0 m	1	
44285	Spare Stick 2,50 m	1/50	
44284	Spare Stick 1,80 m	1/50	
44286	Spare Hinge (one piece)	1	

Flexigate – The Flexible Gate System

Flexigate makes it easy for you to electrify paddock entrances. On opening the tape or rope will be reeled up automatically by a steel spring.

Your advantages:
- secured with 2 included wooden screws DIRECTLY to the wooden stake
- **NOW: extendable to max. 7.5 m**
- no sagging of tapes or ropes
- no stumbling for humans and animals
- no tail hair gets stuck
- no dirty tapes/ropes
- end-to-end electrical contact



New!







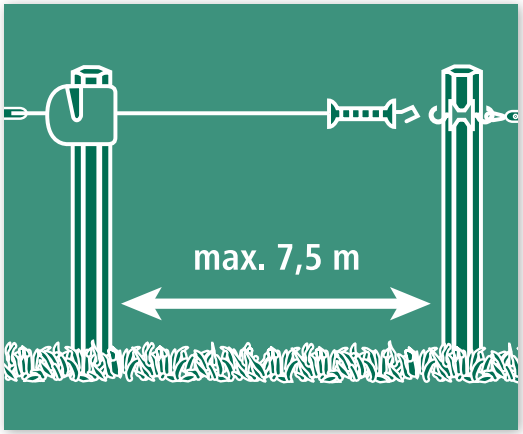






connecting cable not included

Especially suitable for fence systems.
End-to-end electrical contact.



ref. no.	description	length		€
441298/011	Flexigate with 40 mm Tape	max. 7,5 m	1/10	
441299/011	Flexigate with Rope	max. 7,5 m	1/10	
44617/011	Tape Connecting Cable	-	1/90	
44627/011	Rope Connecting Cable	-	1/90	

E-line Gate Kit

- with tensile electric fencing rope
- convenient and handy gate for fence openings either up to 6 m or up to 9 m
- no mane or tail hair gets stuck
- stainless steel hook
- correct assembly of the gate system through the use of 3 gate posts

set includes:
1 x 7 mm tensile electric fencing rope (3 years warranty), with hook
1 x sturdy gate handle
1 x ring insulator
1 x gate handle insulator





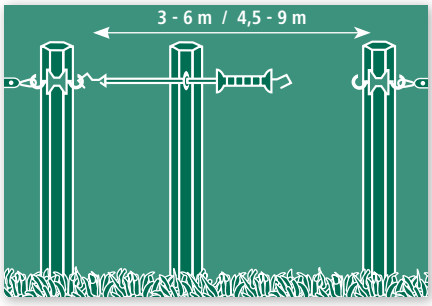
patented!



44293



Especially for horse paddocks!



ref. no.	description	SB		€
44255/011	E-line (3.0 - 6.0 m)	1	16	
442551/011	E-line (3.0 - 6.0 m)	1	16	
442564	E-line Rubber Electric Fencing Rope 25 m, 8 mm	-	10	

Swing-Through Lock for Fence Gates

- the swing-through lock allows the gate to be opened in both directions
- the lock is fitted to the stake and gate using the screws supplied
- can be used on all fence gates





ref. no.		€
441025	1/6	

New!

Safe and sound advice!



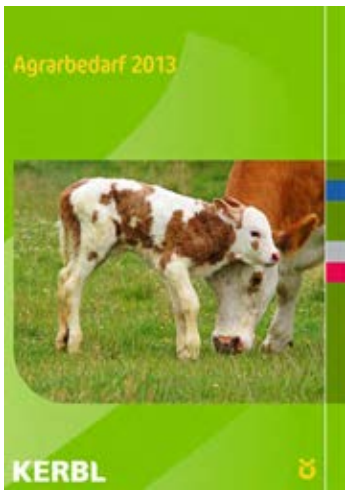
We would be happy to assist you with any queries or requests you may have. Your nearest dealer will be delighted to offer you personal advice.
(see reverse)

Or why not visit us on the Internet? Our AKO podcasts, offering technical support, can be found at

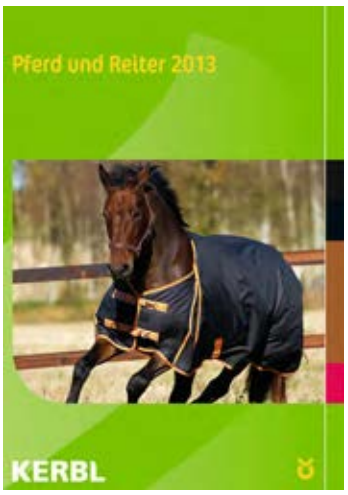
www.ako-agrar.de/mediathek

AKO AGRARTECHNIK PODCAST

Here too is a selection of our current range catalogues:



Stable and yard essentials



Everything for horses and riders



Everything for dogs, cats and other four-legged friends

Pasture Gates, adjustable

Including assembly set

- 110 cm hight
- galvanized
- continuously adjustable length
- pasture gate including assembly set (2 hinges + 1 lock option)



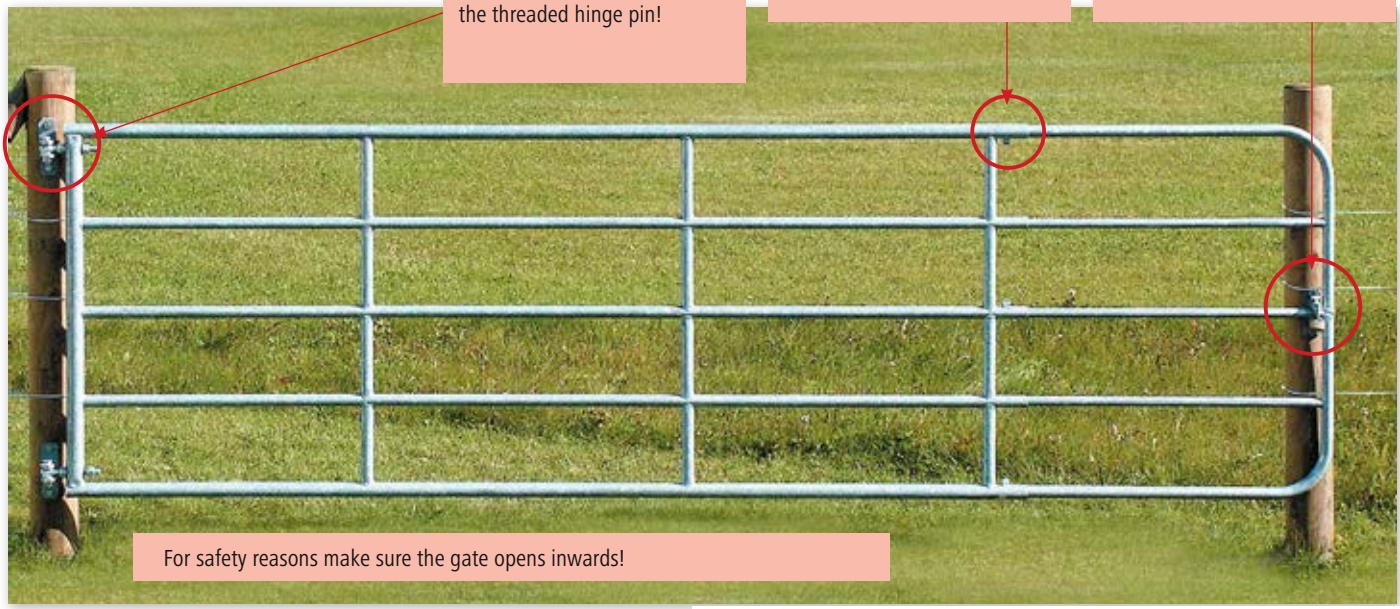
Offset mounting of the hinge can be adjusted by moving the threaded hinge pin!



extends by adjustable set screw



lockable (padlock not included)



For safety reasons make sure the gate opens inwards!

Electrics Kit for Fence Gates

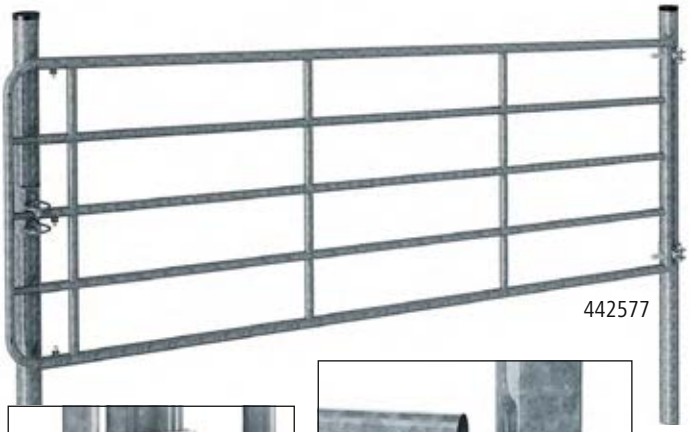
- Kit for additional electrification of your fencing system around fence gates
- fence gate can continue to be opened by hand
- set includes:

- 6 fastening rings
- 6 ring insulators with metric thread
- 1 rope/tape connection
- 14 m rope (Top Line Plus) with 6 mm





ref. no.		€
441224	1/16	



442577



Can be closed as an option (without lock)



Offset mounting of the hinge can be adjusted by moving the threaded hinge pin (which is height-adjustable).

ref. no.	description		€
44893	Fence Gate 1 - 1,7 m, adjustable	1	
44892	Fence Gate 2 - 3 m, adjustable	1	
44891	Fence Gate 3 - 4 m, adjustable	1	
44895	Fence Gate 4 - 5 m, adjustable	1	
442557	Fence Gate 5 - 6 m, adjustable	1	
442577	2 m gate post with plastic cap, Ø 88 mm	1	
442578	Fastener for gate posts	1	
442579	Hinge pin bracket for gate posts (in pairs)	1	

Shipping costs will be charged separately!



442578



442579



Fence panels



Fence Panel

- perfect for erecting mobile and flexible fencing as well as temporary horse boxes
- also commonly used to fence off riding and training areas
- height of upper tube 1.6 m
- total height 1.70 m
- safety mounting bracket prevents animals from being injured. When landing on the panel, the animal does not fall between two panels if it slips
- smooth oval tube 50 x 30 x 1.5 mm
- clear distance between tubes 20 cm
- rapid chain fastening makes it quicker and easier to connect several panels
- very stable at light loads
- curved feet ensure excellent stability
- galvanized


safety mounting bracket

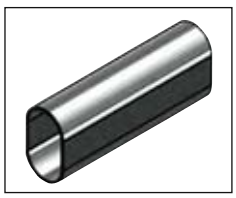

rapid chain fastening

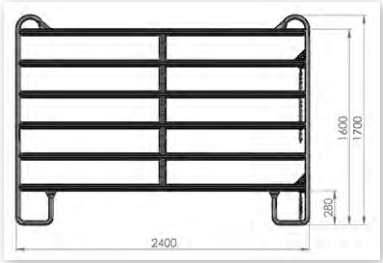

secure stand because of U-shaped foot



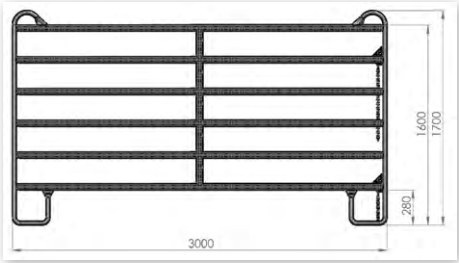
Shipping costs will be charged separately!

ref. no.	description	length		€
442591	Fence component without gate	2,4 m	1	
442592	Fence component without gate	3,0 m	1	
442593	Fence component without gate	3,6 m	1	

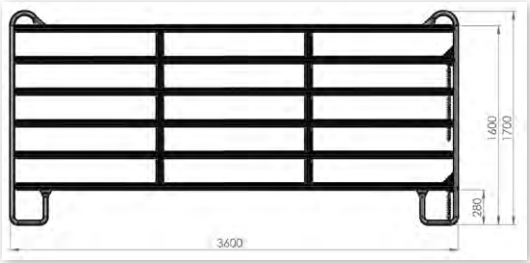

dimensioning flat oval tube: 50 x 30 x 1.5 mm



dimensioning 442591



dimensioning 442592



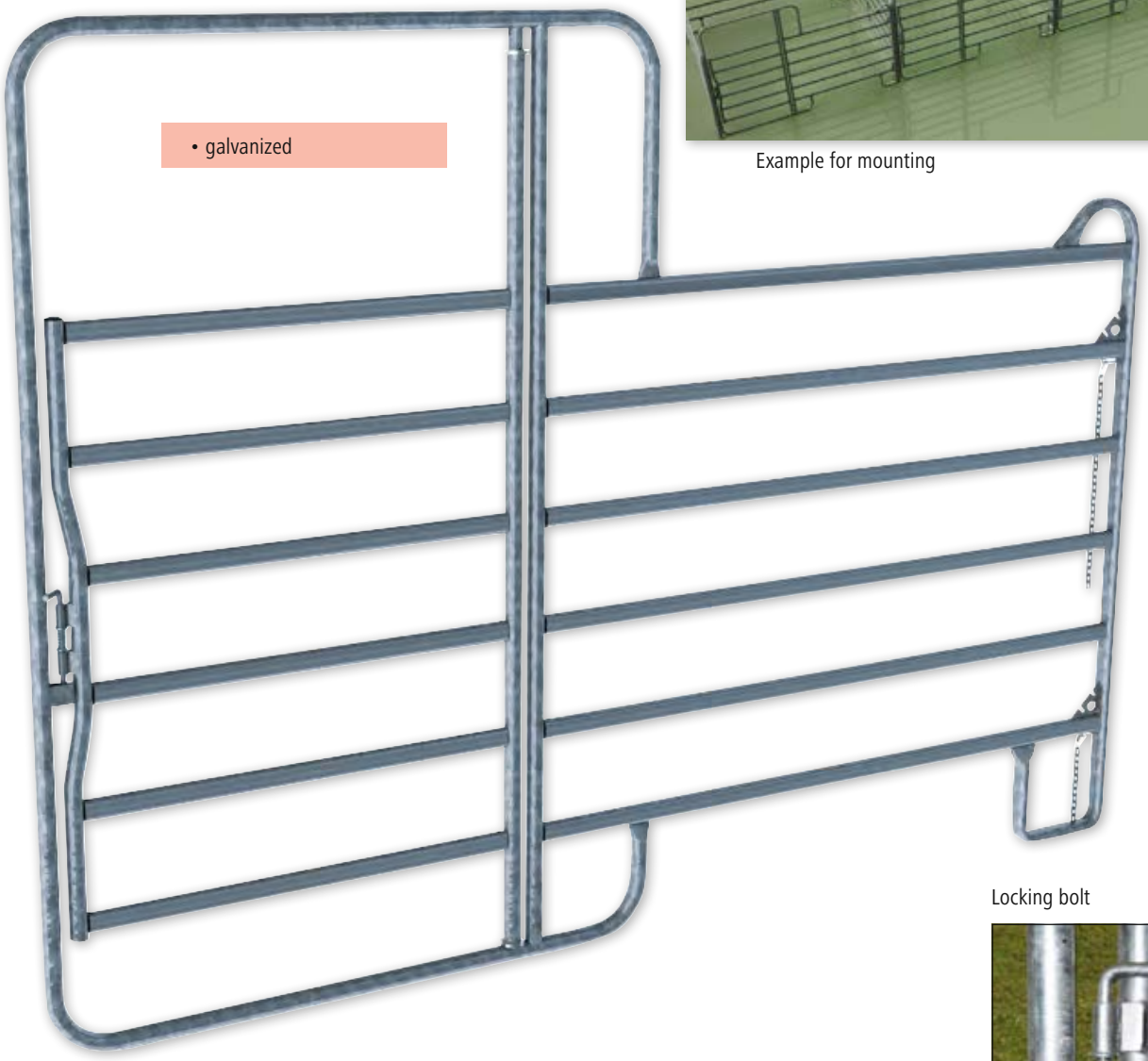
dimensioning 442593

Fence Panel with Gate

- allows an opening to be created in the fencing
- total height 2.2 m
- gate width 1.1 m
- lock for opening and closing the fenced area
- galvanized



Example for mounting

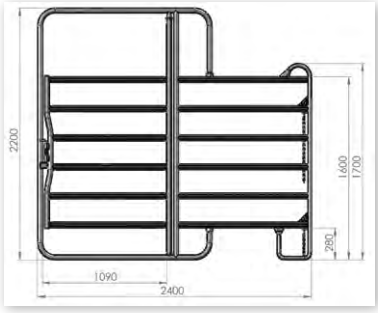


Locking bolt

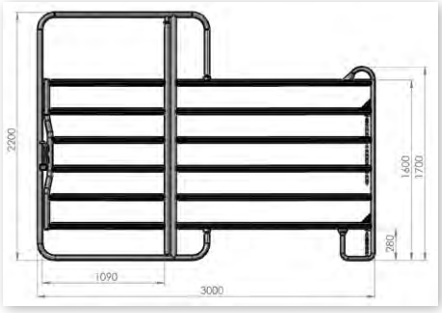


Shipping costs will be charged separately!

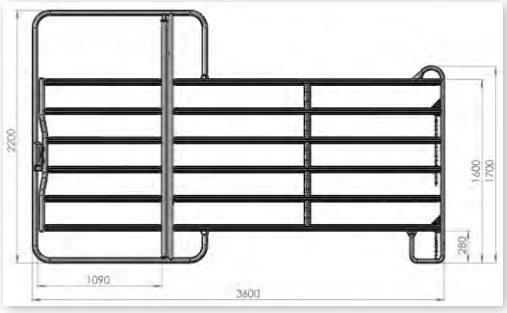
ref. no.	description	length		€
442594	Fence component with gate	2,4 m	1	
442595	Fence component with gate	3,0 m	1	
442596	Fence component with gate	3,6 m	1	



dimensioning 442594



dimensioning 442595



dimensioning 442596

Square Hay Rack for Horses with Safety Feeding Barrier

- universal hay rack with 12 slots for horses
- suitable for round and rectangular bales up to 1.8 m in length or diameter
- extremely stable design, high material thickness, 2 square pipe beams
- galvanized
- 2 sides can easily be opened for filling
- height-adjustable runners (adjustable to the animal's size)
- three point attachment
- very little food loss
- supplied as a construction kit including circumferential roof edge protection, three-point safety clip
- internal trough dimensions: approx. 2 x 2 m
- complete dimensions: approx. L 2.12 x W 2.12 x H 2.5 m





Shipping costs will be charged separately.

ref. no.		€
291256	1	

Four-sided Manger for Palisade Feeding Grid

- 12 feeding places
- universal hay rack for horses and cattle
- suitable for round and rectangular bales up to 1.8 m in length or diameter
- extremely stable design, high material thickness, 2 square pipe beams
- galvanized
- 2 sides can easily be opened for filling
- height-adjustable runners (adjustable to the animal's size)
- three point attachment
- very little food is wasted
- supplied as a construction kit including circumferential roof edge protection, three-point safety clip
- internal trough dimensions: approx. 2 x 2 m
- dimensions: approx. L 2.12 x W 2.12 x H 2.5 m





Shipping costs will be charged separately.

ref. no.		€
291255	1	



Three point attachment (with safety guard)



Circumferential roof edge protection



Square Tube Support Beams

Slow Feeding Net

- the net is placed over the food/bales so that the animals eat more slowly and thoroughly, helping to improve their digestion
- reduced dust formation
- appropriate feeding
- little food is wasted



ref. no.	length	width	meshing		€
291260	3,6 m	2,4 m	4,5 cm	1/6	
291261	3,6 m	2,4 m	10,0 cm	1/10	
291262	2,8 m	2,8 m	4,5 cm	1/6	
291263	2,8 m	2,8 m	10,0 cm	1/12	

Round Rack with 8 Feeding Slots

- 8 feeding places
- palisade feeding grid
- supplied as self-assembly kit
- 4-part, can be transported in an estate car
- outdoors or in play pens, the segments can also be used to set up wall or corner mangers
- galvanized



technical data	
external diameter:	approx. 150 cm
internal diameter:	approx. 132,5 cm
height:	approx. 116 cm

Shipping costs will be charged separately!

ref. no.		€
291257	1	



Round Rack with 12 Feeding Slots

for regular and round bales

- 12 feeding slots
- palisade feeding grid
- supplied as self-assembly kit
- consists of 3 parts
- three point attachment
- includes three-point safety clip and top bar safety cap
- galvanized

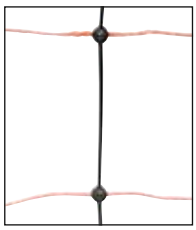


technical data	
external diameter:	approx. 236 cm
internal diameter:	approx. 219 cm
height:	approx. 116 cm

Shipping costs will be charged separately!

ref. no.		€
291258	1	





Enhanced stability and optimal terrain suitability provided by sturdy vertical strands 30 cm apart.

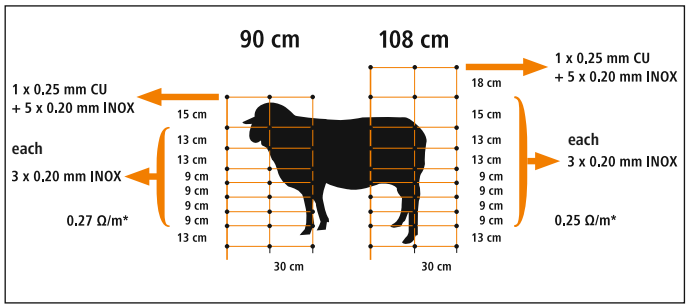
TitanNet

3 years UV warranty

Sheep Netting with Vertical Struts

TitanNet sheep netting was developed particularly for uneven terrain. Instead of the soft stranded material, rigid plastic strands were used for the verticals. These are durably connected every 30 cm to the horizontal strands, thus providing compact stability even in hilly and uneven terrain.

• height 90 cm or 108 cm • Length 50 m • 14 stable plastic posts • electrifiable horizontals through 3 x 0.20 mm stainless steel conductors per strand
• increased conductivity thanks to the use of 5 Niro wires and a tin-plated copper wire in the topmost wire • strengthened, energized upper strand
• welded knots • galvanised ground spike on plastic stake • head insulator and ground stopper make self-loosening of the wire virtually impossible
• the plastic strands have a 3-year UV-resistance warranty



Particularly suitable for application with several nets in a row. Optimal conduction to the furthest sheep netting through copper conductor in the top strand!

* based on the total conductor cross-section of all live wires in the mains network

ref. no.	description	suitable spare post			€
27211	TitanNet, 90 cm, single prong	27276	1	30	
27212	TitanNet, 90 cm, double prong	27277	1	30	
27213	TitanNet, 108 cm, single prong	27278	1	30	
27214	TitanNet, 108 cm, double prong	27279	1	30	



Top Insulator

ref. no.	description	colour		€
27276	Spare Post, 90 cm, single prong	black	1/100	
27277	Spare Post, 90 cm, double prong	black	1/50	
27278	Spare Post, 108 cm, single prong	black	1/100	
27279	Spare Post, 108 cm, double prong	black	1/50	
27293	Sheep Netting Repair Set	orange	1	
27249-5	Spare Top Insulator	-	1/10/500	
27250-5	Spare Stopper	-	1/10/500	
27322	Floor Anchor Plastic	-	1/10	



Stopper



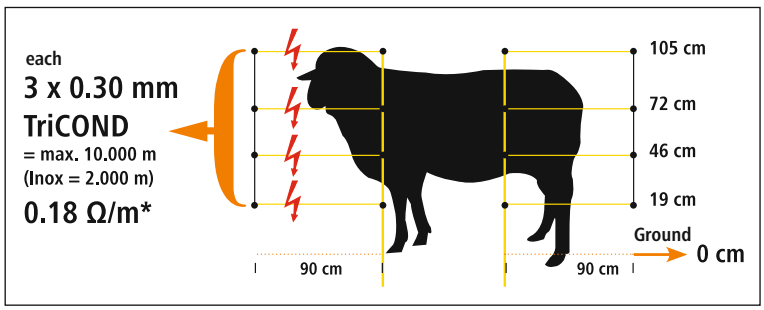
with reinforced black vertical bars, spacing 90 cm

EasyNet

Sheep netting with ground spacing

The newly developed EASY NET with ground spacing is easy to assemble and disassemble. Work is made simpler in particular by the very light, but extremely robust and durable fibreglass rods with step and steel nail. The spacing from the ground makes mowing possible and easier (as a rule, the animals eat the grass under the netting themselves), which significantly reduces power loss through grass growing around the netting. The shock effect is therefore significantly increased. This has been proven to good effect in extensive field tests. Thanks to the ground spacing, the Easy-Net is extremely easy to replace in comparison to traditional nettings with strands along the ground, which are easily overgrown.
EasyNet uses AKO TriCOND conductor wires, resulting in very low resistance = very high conductivity. The netting is 50 m long and contains 15 fibreglass rods. Colour of TriCOND strands: yellow / black.

- with additional black vertical bars every 90 cm



* based on the total conductor cross-section of all live wires in the mains network





ref. no.	description			€
27200	EasyNet, 105 cm	1	40	
27201	Spare Post	1	-	



- height 90 cm or 108 cm
- Length 50 m
- 14 stable plastic posts
- electrifiable horizontals through 3 x 0.20 mm stainless steel conductors per strand
- increased conductivity thanks to the use of 5 Niro wires and a tin-plated copper wire in the topmost wire
- strengthened, energized upper strand
- welded knots
- plastic posts with galvanized spikes
- top insulator and stopper prevent the net from coming loose
- we offer a 3-year warranty against UV damage for all plastic wires

Particularly suitable for application with several nets in a row. Optimal conduction to the furthest sheep netting through copper conductor in the top strand!

OviNet orange

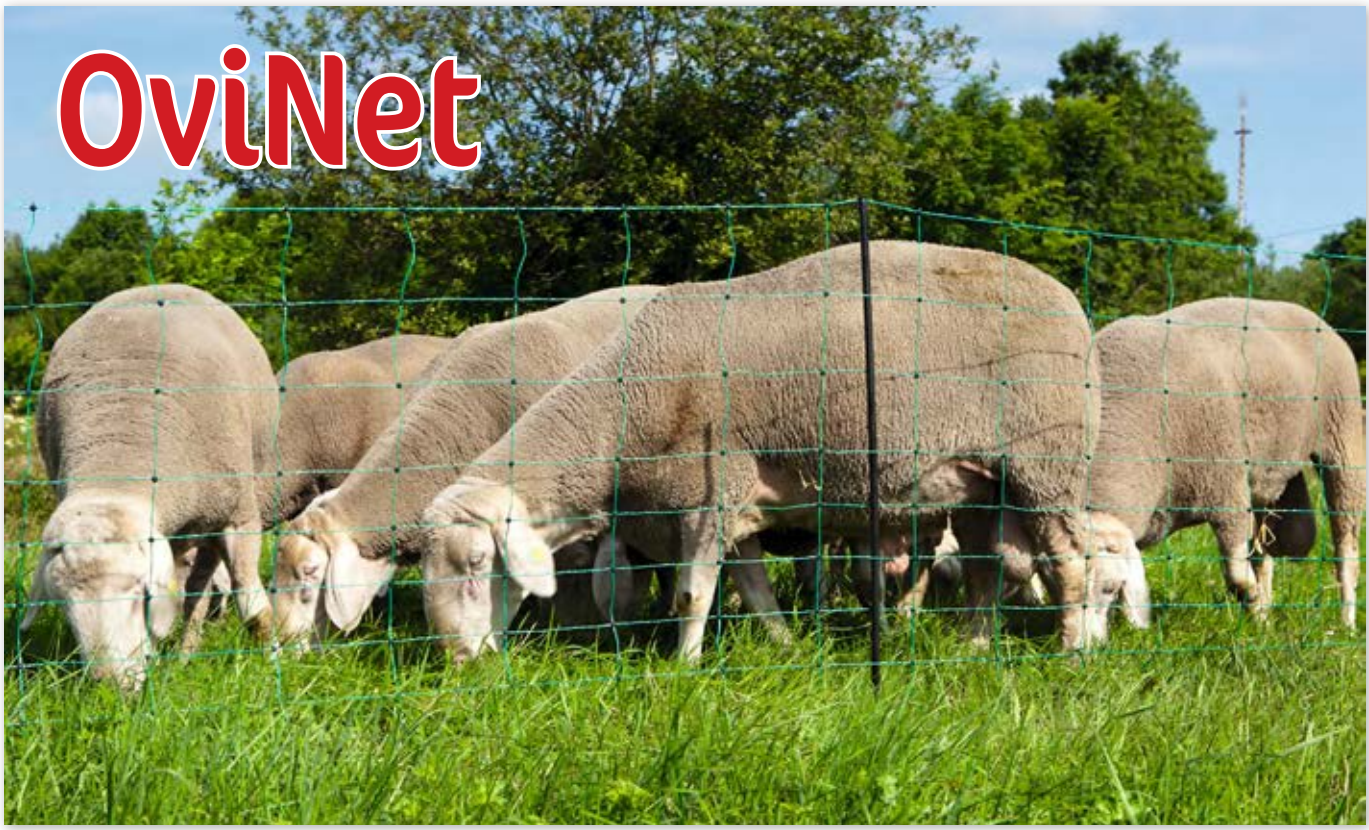
Electrifiable Sheep Netting for Universal Use

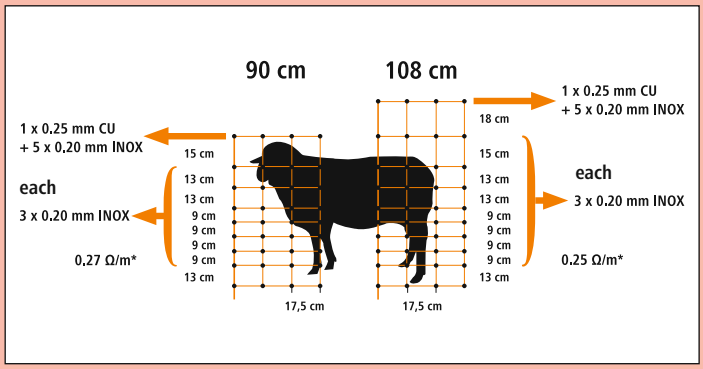
ref. no.	description	colour	suitable spare post			€
27251	OviNet, 90 cm, single prong	orange	27245	1	35	
27252	OviNet, 90 cm, double prong	orange	27246	1	35	
27253	OviNet, 108 cm, single prong	orange	27247	1	35	
27254	OviNet, 108 cm, double prong	orange	27248	1	35	

ref. no.	description	colour		€
27245	Spare Post, 90 cm, single prong	red	1/100	
27246	Spare Post, 90 cm, double prong	red	1/50	
27247	Spare Post, 108 cm, single prong	red	1/100	
27248	Spare Post, 108 cm, double prong	red	1/50	
27293	Sheep Netting Repair Set	orange	1	
27249-5	Spare Top Insulator	-	1/10/500	
27250-5	Spare Stopper	-	1/10/500	
27322	Floor Anchor Plastic	-	1/10	


Top Insulator

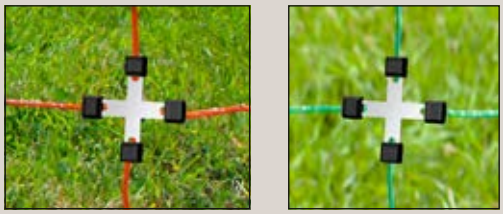

Stopper





* based on the total conductor cross-section of all live wires in the mains network

Fast and simple connection with Litzclip®



OviNet green

Electrifiable Sheep Netting for Universal Use

ref. no.	description	colour	suitable spare post			€
27265	OviNet, 90 cm, single prong	green	27276	1	35	
27266	OviNet, 90 cm, double prong	green	27277	1	35	
27267	OviNet, 108 cm, single prong	green	27278	1	35	
27268	OviNet, 108 cm, double prong	green	27279	1	35	

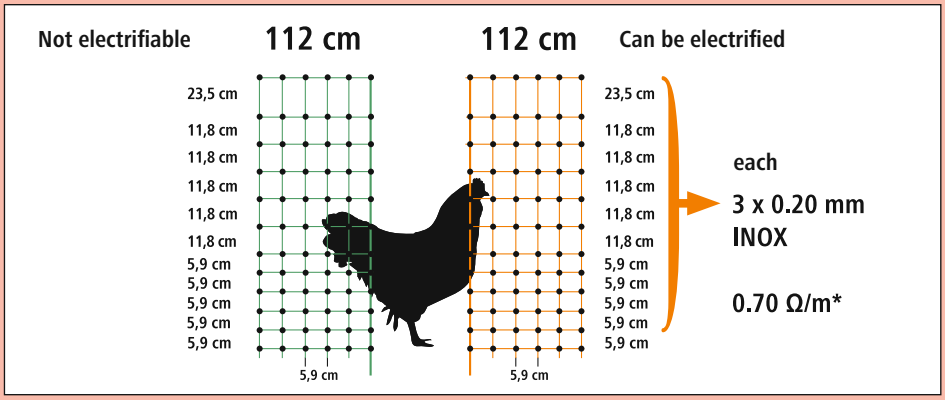
ref. no.	description	colour		€
27276	Spare Post, 90 cm, single prong	black	1/100	
27277	Spare Post, 90 cm, double prong	black	1/50	
27278	Spare Post, 108 cm, single prong	black	1/100	
27279	Spare Post, 108 cm, double prong	black	1/50	
27294	Sheep Netting Repair Set	green	1	
27249-5	Spare Top Insulator	-	1/10/500	
27250-5	Spare Stopper	-	1/10/500	
27322	Floor Anchor Plastic	-	1/10	

New!

Poultry Netting



- for hens, geese, turkeys
- height: 112 cm
- welded knots
- strengthened top strand
- particularly small mesh width in the lower area of the net
- stable, easily visible plastic stakes
- also suitable for lambs



* based on the total conductor cross-section of all live wires in the mains network

PoultryNet orange

can be electrified

ref. no.	description	colour	suitable spare post			€
292203	Poultry Netting, 50 m, single prong	orange	292212-7	1	25	
292204	Poultry Netting, 50 m, double prong	orange	292213-7	1	25	

ref. no.	description	colour		€
292212-7	Spare Post, single prong	orange	1/50	
292213-7	Spare Post, double prong	orange	1/50	

Poultry Netting



PoultryNet green

can be electrified

New!

ref. no.	description	colour	suitable spare post			€
292220	Poultry Netting, 50 m, double prong	green	292213-5	1	25	
292215	Poultry Netting, 25 m, single prong	green	292212-5	1	40	
292214	Poultry Netting, 25 m, double prong	green	292213-5	1	40	
27249-5	Spare Top Insulator	-		1/10/500	-	
27250-5	Spare Stopper	-		1/10/500	-	

ref. no.	description	colour		€
292212-5	Spare Post, single prong	black	1/50	
292213-5	Spare Post, double prong	black	1/50	

Fast and simple connection with Litzclip®





PoultryNet green

not electrifiable

ref. no.	description	colour	suitable spare post			€
292208	Poultry Netting 50 m, single prong	green	292212-5	1	20	
292218	Poultry Netting 50 m, double prong	green	292213-5	1	25	
292217	Poultry Netting 25 m, single prong	green	292212-5	1	40	
292219	Poultry Netting 25 m, double prong	green	292213-5	1	40	
27249-5	Spare Top Insulator	-		1/10/500	-	
27250-5	Spare Stopper	-		1/10/500	-	

ref. no.	description	colour		€
292212-5	Spare Post, single prong	black	1/50	
292213-5	Spare Post, double prong	black	1/50	

Wild Animal Deterrent Netting

Advantages:
- Quicker to assemble and disassemble than conventional electric fences
- Ground clearance (for easier mowing and for far less electrical conduction, meaning more power at the fence)
- Vertical struts create regular distances between polywires, meaning that users do not have to decide on distances between wires for themselves
- 12 fully integrated posts, each spaced at a distance of 4.5 m
- The relatively rigid vertical struts create higher 'contact pressure' between the polywire and the animal. More effective contact = a more effective shock
- The netting provides a better mechanical barrier - sows find it more difficult to slip through than a normal wire fence
- Fibreglass posts are extremely robust and long-lasting as well as very small and light, making them easy to handle
- TriCOND wires provide high levels of conductivity and low levels of resistance
- Blue 40 mm plastic caution tape (250 m, item no. 27216) can be added to improve visibility
- If required, spare posts can be added at a later date. Item no. 27217
- No additional gate components required. If required, the netting can be opened via just 1 or 2 posts at the beginning/end
- Netting can be easily connected with other netting using the built-in connectors. Separate connectors are not required

Recommended! For the best possible securing of your fence, we recommend: Mobil Power AN 5500 (Art. 372550), 12 V Special Wet Battery (Art. 44223), Special Earth Rod (Art. 44619) and Metal Battery Box (Art. 44656).













Wild Animal Deterrent Netting



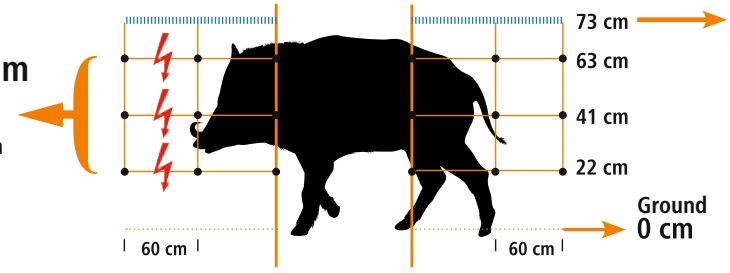
WildNet

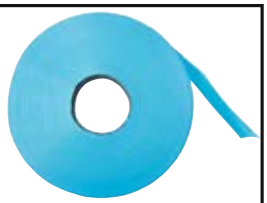
The straightforward solution for keeping wild animals at bay

- Length 50 m
- 3 x TriCOND rows, white/blue with 3 x 0.30 mm TriCOND wires each provide optimum conductivity (up to 10.000 m fence length)
- 12 x blue fibreglass posts
- Post 75 cm above ground
- Post 90 cm in total
- Distance between posts approx. 4.5 m
- blue vertical struts, 60 cm apart
- 3 x conducting strands: bottom distance from ground 22 cm, center 41 cm, top 63 cm
- Accessories: 3 x pegs with black nylon cord, repair kit and warning sign
- 40 mm blue caution tape is available as a separate accessory (250 m), item no. 27216

TriCOND = 5 x higher conductivity than stainless steel conductors

each
3 x 0.30 mm TriCOND
= max. 10.000 m
(Inox = 2.000 m)
0.18 Ω/m*





Caution tape 250 m (not included in scope of supply)



27217

* (based on the total conductor cross-section of all live wires in the mains network)

ref. no.	description	length			€
27215	Wild animal deterrent netting	50 m	1	50	
27216	Blue caution tape	250 m	1	-	
27217	Spare post blue	90 cm	1/10	1,750	
44428	Spare insulator for 27217	-	1/25/1000	-	

Rabbit Netting

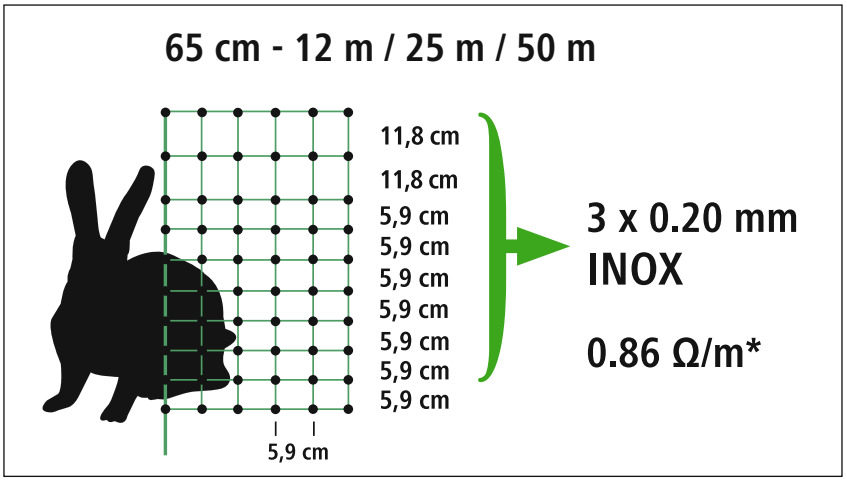
• height of net 65 cm • electrifiable horizontals through 3 x 0.20 mm stainless steel conductors per strand • for power supply use e.g. the battery fencer AKO Compact Power B 40







44657



Fast and simple connection with Litzclip®



372005



recommended for rabbit netting

Extra small meshing 5,9 cm guarantees highest tending safety!

ref. no.	description	colour			€
292209	Rabbit Netting 12 m, single prong, with 9 stable plastic posts	green	1	50	
292216	Rabbit Netting 25 m, single prong	green	1	50	
292221	Rabbit Netting 50 m, single prong	green	1	30	
292222	Rabbit Netting 50 m, double prong	green	1	30	
27249-5	Spare Top Insulator	-	1/10/500	-	
27250-5	Spare Stopper	-	1/10/500	-	
372005	Compact Power B 40	-	1	168	
44657	Earth / support rod to match Compact Power B 40	-	1	100	

ref. no.	description	colour	MQ		€
292210-5	Spare Post, single prong	black	-	1/50	
292211-5	Spare Post, double prong	black	-	1/50	

New!

Litzclip® Wire Connector

- ideal for connecting 2 wire ends of up to approx. 3 mm in diameter
- special key-shaped punched opening for the easy introduction and secure fixing of the wire
- extremely resilient sealing caps made from plastic for locking and pressing the wire to the metal plate in order to ensure maximum conductivity
- plastic caps made from PA plastic with UV stabiliser – no regranulate! extremely long-lasting and impact-resistant.
- suitable for use with all types of wire network



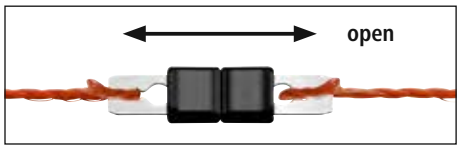




Wire Connector Litzclip®

- the straightforward solution too for repairing a torn wire

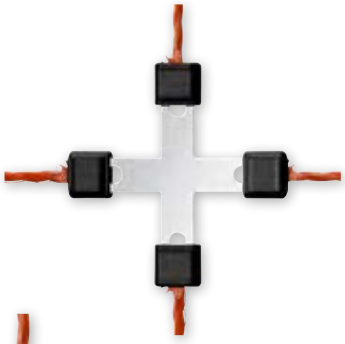




ref. no.	use	material	SB	€
442003/101	for wires up to 3 mm in diameter	stainless steel (INOX)	10	
442013/106	for wires up to 3 mm in diameter	galvanized	10	

Wire Cross-Connector Litzclip®

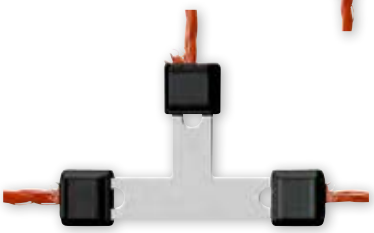
galvanized



ref. no.	use	SB	€
442014/056	for wires up to 3 mm in diameter	5	

Wire T-Connector Litzclip®

galvanized

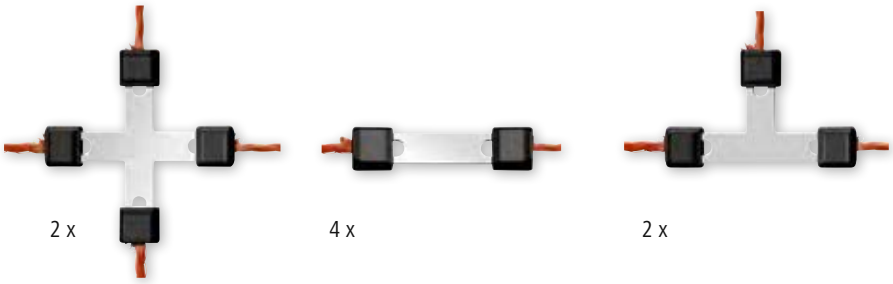


ref. no.	use	SB	€
442015/056	for wires up to 3 mm in diameter	5	

Repair Set Litzclip®

galvanized

- especially for repairing sheep, poultry and rabbit netting
- incl. 4x straight 3 mm wire connectors
- incl. 2x 3 mm wire cross-connectors
- incl. 2x 3 mm wire T-connectors



ref. no.		€
442018/081	1/100	

Post Driver

- for driving in posts up to Ø 100 mm
- weight approx. 13.5 kg

ref. no.		€
44471	1	

Drill

- the ideal aid for fence building
- fatigueless drilling before posts are set up

ref. no.	Ø		€
44484	70 mm	1	
44485	90 mm	1	
44486	150 mm	1	

Wooden Mallet

- 6 kg
- incl. welded scorper

ref. no.	description		€
44482	Wooden Mallet	1	
44483	Spare Stick for Wooden Mallet	1/10	

Sledge Hammer

- 5 kg
- made of break-proof plastic

ref. no.		€
441422	1	



Farming Forceps

ref. no.		€
28255/1	1/6/36	

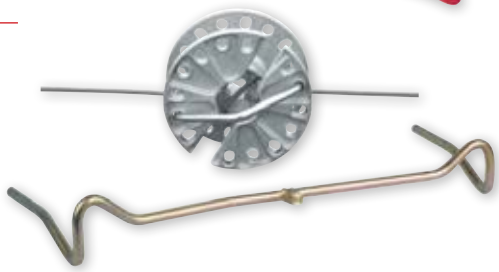
- cuts wires up to 5 mm diameter
- indispensable for fencing
- use also as hammer



In-Line Strainer

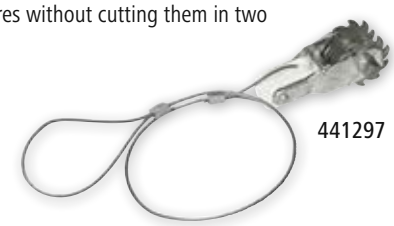
- tightens/loosens rapidly wires, ropes, polywires without cutting them in two

ref. no.	description	SB		€
44513	In-Line Strainer	-	1/25	
44513/031	In-Line Strainer	3	1/50	
44514	Tension arm	-	1/20	



Permanent Wire Strainer

- tightens/loosens rapidly wires, ropes, polywires without cutting them in two
- with cliplock
- without lever



441297



441328



441327

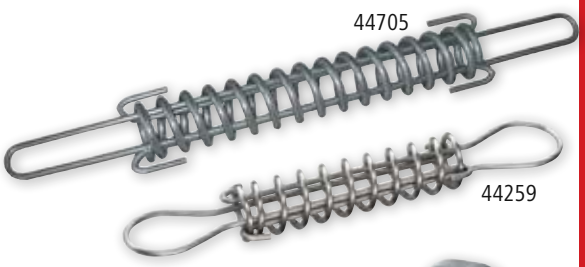
ref. no.	description		€
44509	Gear-toothed Wire Tensioner	1/50	
441327	Gear-toothed wire tensioner with integrated insulator	1/20	
441297	Gear-toothed wire tensioner with integrated insulator and wire cable	1/10	
441328	Clamping lever for gear-toothed wire tensioner	1	



44509

Temperature Equalisation Spring

- sturdy model for 2.5 mm steel wire (44259 for 1.6 mm steel wire)
- eases strain on wire and corner posts
- balances temperature variations in winter and renders fence flexible



ref. no.	length	Ø spring	material		€
44704	435 mm	43 mm	galvanized	1/20	
44705	435 mm	43 mm	stainless steel	1/20	
44259	200 mm	25 mm	stainless steel	1/60	

Permanent Fencing Insulator Highland

- black
- professional insulator for permanent fencing
- nail-on or screw-in insulator
- ideal for steel wires



ref. no.		SB			€
441398	10	-	200	-	

10 years UV warranty

Insulator Pinlock

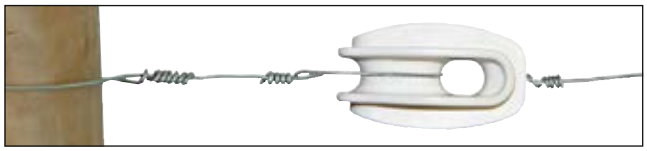
- heavy-duty insulator
- ideal for all ropes up to ø 8 mm polywires and steel wires



ref. no.				€
441495	25	500	-	

Strain Insulator Polyamide for Steel Wire

- with fibreglass reinforcement
- suitable as corner and strain insulator inpermanent fencing (plain wire)
- resists especially high strains



ref. no.				€
44358	10	-	250	

Corner Insulators

- professional corner insulator made of porcelain
- high-quality
- resists maximum strains
- 50 mm total diameter



ref. no.		SB		€
44338	1	-	50	
44338/061	-	6	-	

Wood Screws

- 4.5 x 35 mm galvanized
- fastens rope and tape insulators



ref. no.	SB	€
44393/1001	100	

Kramp Nail

- 3.8 x 47 mm
- galvanized



ref. no.		€
44394	50	

The AKO Electric Fence System with Fence Tape



1 Octo Wood wooden stakes for permanent fences (441827)



2 

Premium Tape Tensioner for the start and/or end of the fence (44578)

3a 

Wide Tape Insulator for the Stretch (44340)

3b 

Clip Insulator MaxiTape for the Stretch (441390)

3c 

Premium Clip Insulator for the Stretch (441290)

4 

Litzclip® Tape Connector (442002/051)

5 

Professional Corner Insulator (44350)

6 

AKO Warning Sign (44623)

7a 

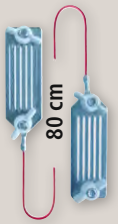
Flexigate Tape (441298/011)

7b 

Premium Gate Handle with Tape Connector (44949)

8 

Professional Tape / Gate Handle Insulator (44355/041)

9a 

Tape Connection (44616/011)

9b 

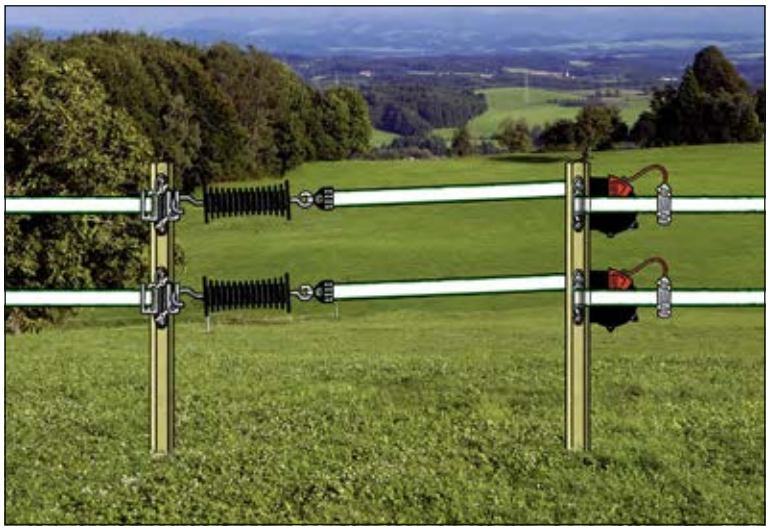
Tape Connecting Cable (44617/011)

Or why not visit us on the Internet? Our AKO podcast on fence building with fence tape can be found at:

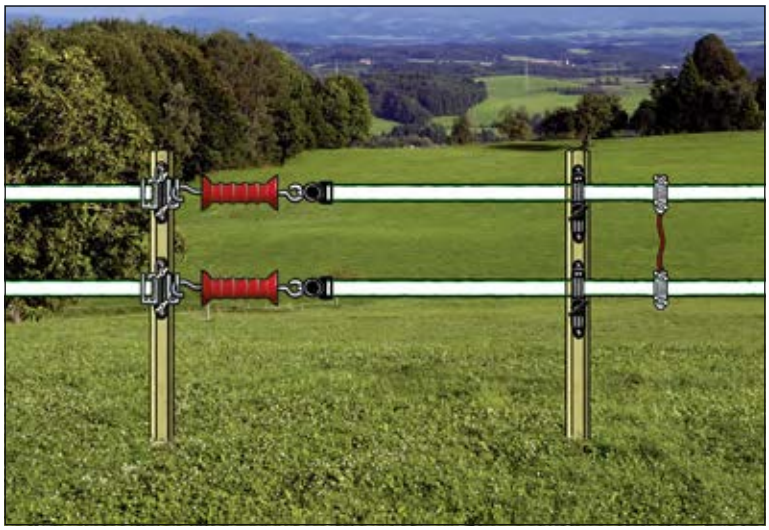
www.ako-agrar.de/mediathek

Gate Systems with Fence Tape

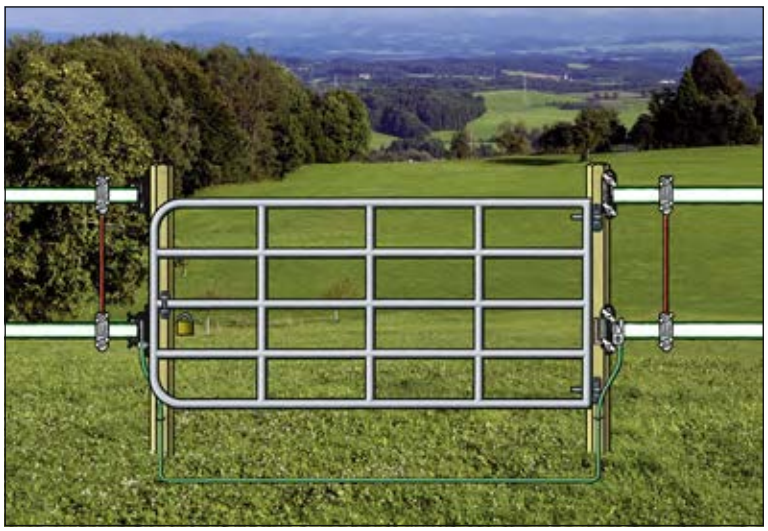
7 a) Flexigate Tape



7 b) Gate Handle with Tape Connector



7 c) Zinc-plated paddock gate



Tips:

- **tensioning/corner/gate posts**
We recommend AKO Octo Wood posts with a 10-year warranty. Since these woods are not made from hardwood, screw insulators can be inserted relatively easily.

- **stretch posts**
We recommend AKO Octo Wood posts with a 10-year warranty. Since these woods are not made from hardwood, screw insulators can be inserted relatively easily. Stake distance approx. 4 m

- **conductors**
Choose tape material that has good conductivity. Resistances should be less than 1 Ohm / metre. Do not knot! Use our special tape connectors made from stainless steel.

- **information about how the electric fence works and recommendations regarding tape series and tape heights can be found on the first pages of this catalogue.**

The AKO Electric Fence System with Fence Rope



1 Octo Wood Wooden Stakes for Permanent Fences (441827)



2 Hose Insulator for the Start and/or End of the Fence (44392)



3a EDX Ring Insulator for the Stretch (443269)



3b Euro Cord Rope Insulator for the Stretch (441396)



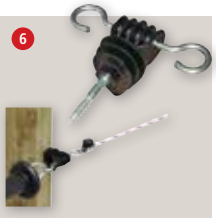
3c Screw-in Easy Cord Rope Insulator for the Stretch (441382)



4 Litzclip® Rope Connector (442004/051)



5 Corner Insulator Super (441330)



6 Vario + Rope Connector Gate Handle Insulator (441248 + 441209/041)



7 AKO Warning Sign (44623)



8a Flexigate Rope (441299/011)



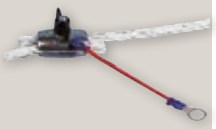
8b Gate Handle with Rope Connector (44948)



8c E-Line (44255/011)



9a Rope Connector (44629/011)



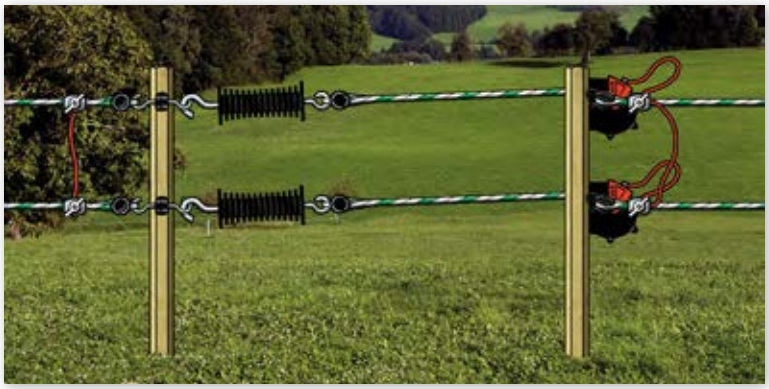
9b Rope Connecting Cable (44627/011)

Or why not visit us on the Internet? Our AKO podcast on fence building with fence rope can be found at:

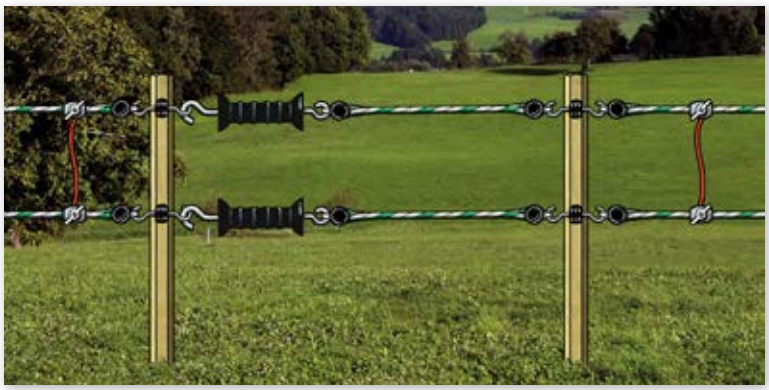
www.ako-agrar.de/mediathek

Gate Systems with Fence Rope

8 a) Flexigate Rope



8 b) Gate Handle with Rope Connector



8 c) E-Line



8 d) Zinc-Plated Paddock Gate



Tips:

- **tensioning/corner/gate posts**
We recommend AKO Octo Wood posts with a 10-year warranty. Since these woods are not made from hardwood, screw insulators can be inserted relatively easily.

- **stretch posts**
We recommend AKO Octo Wood posts with a 10-year warranty. Since these woods are not made from hardwood, screw insulators can be inserted relatively easily. stake distance approx. 4 m

- **conductors**
Choose rope material that has good conductivity. Resistances should be less than 1 Ohm / metre. Do not knot! Use our special rope connectors made from stainless steel.

- **information about how the electric fence works and recommendations regarding rope series and rope heights can be found on the first pages of this catalogue.**

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VETIS

PARTNER PROFESIONÁLOV

www.vetis.sk

Sales/logistics:

Albert Kerbl GmbH
Felizenzell 9
84428 Buchbach
Germany
Phone +49 8086 933-100
Fax +49 8086 933-500
E-Mail info@kerbl.com
www.kerbl.com

Product informations/ technical advice:

AKO Agrartechnik GmbH & Co.KG
Karl-Maybach-Str. 4
88239 Wangen-Geiselharz
Germany
Phone +49 7520 9660-0
Fax +49 7520 9660-88
E-Mail info@ako-agrar.com
www.ako-agrar.com

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VETIS
Bratislava
ul.Svornosti 16/12230
821 06 Bratislava
mobil: 0918/818 198
e-mail: vetisba@vetis.sk

VETIS
Královičove Kračany 91
930 03
tel.: 031/551 41 12
fax: 031/552 15 22
mobil: 0918/514 112
e-mail: vetis@vetis.sk

VETIS
Košice, Kováčska 28
040 01 Košice
tel.: 055/7999 017, 19
fax: 055/7999 018
mobil: 0918/514 118
e-mail: vetisvychod@stonline.sk

VETIS
Poprad, Areál PD Poprad
ul. Na letisko č. 107
058 01 Poprad
tel./fax: 052/77 67 559
mobil: 0918/514 116
e-mail: vetispp@stonline.sk

VETIS
Zvolen, Jesenského 25
960 01 Zvolen
tel.: 045/532 61 98
mobil: 0918/514 117
e-mail:
vetiszvolen@stonline.sk

VETIS
Žilina , ul. Dlhá 7
010 09 Žilina
mobil: 0917/121 398
e-mail:
vetiszilina@vetis.sk

VETIS
Agrokontakt s.r.o., Podtureň 170
033 01 Liptovský Hrádok
tel.: 044/522 28 63
fax.: 044/522 17 10
mobil: 0905/693 964, 0905/552 499
e-mail: agrokontakt@stonline.sk