

**READY
FOR WORK**



 **WÜRTH**

E-MOBILITY

Tools and accessories for electric vehicles

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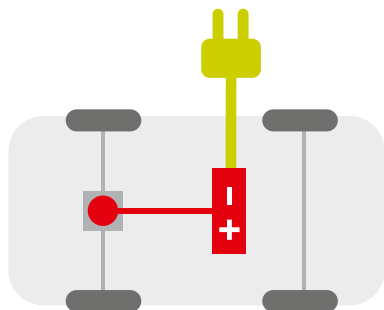
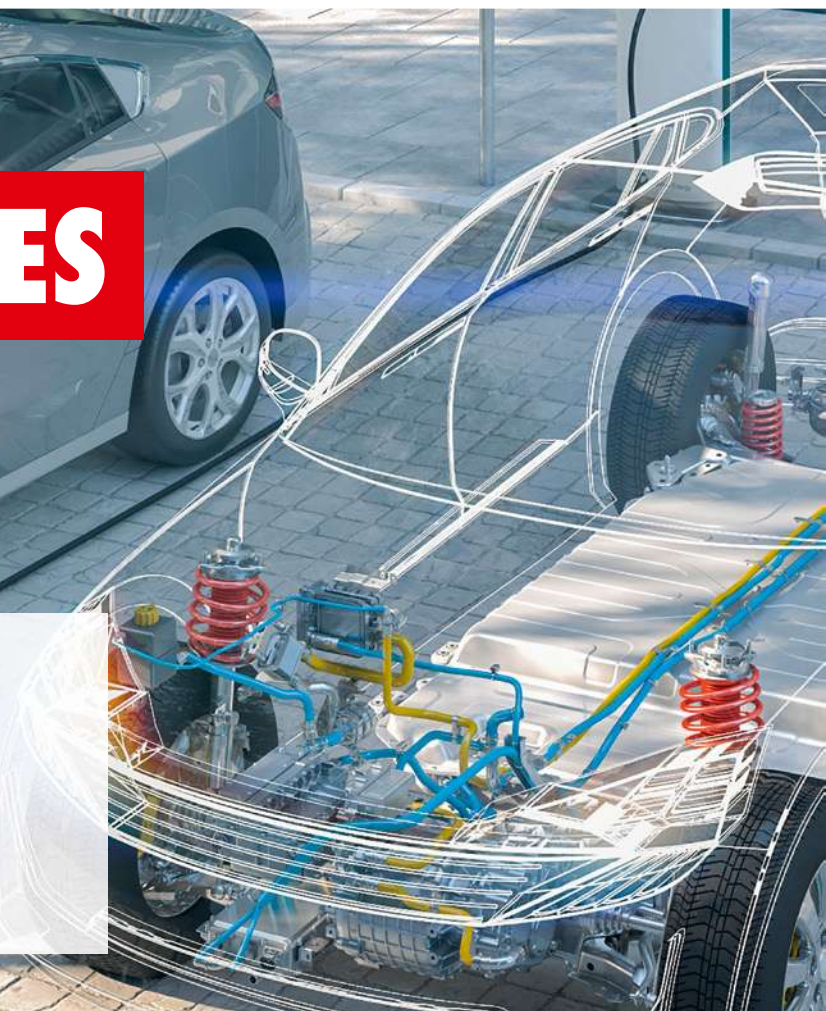




VEHICLE TYPES

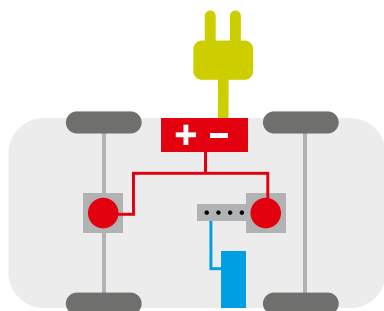
Types of electric vehicles

Since electric cars differ in terms of functionality and construction, depending on driving behavior, different models are worth considering. Pure electric cars, range extenders and the plug-in hybrids are the most conventional types. The structure and the essential differences between these electric vehicle models are shown below.



THE PURE ELECTRIC CAR (BEV)

Pure electric vehicles, which are also called BEVs, an abbreviation of Battery Electric Vehicle, have only an electric motor installed. The BEV obtains the energy required for the drive from an energy source directly in the vehicle, the battery. This is charged via the power grid and stores the recovered braking energy during recuperation.




RANGE EXTENDER (REEV)

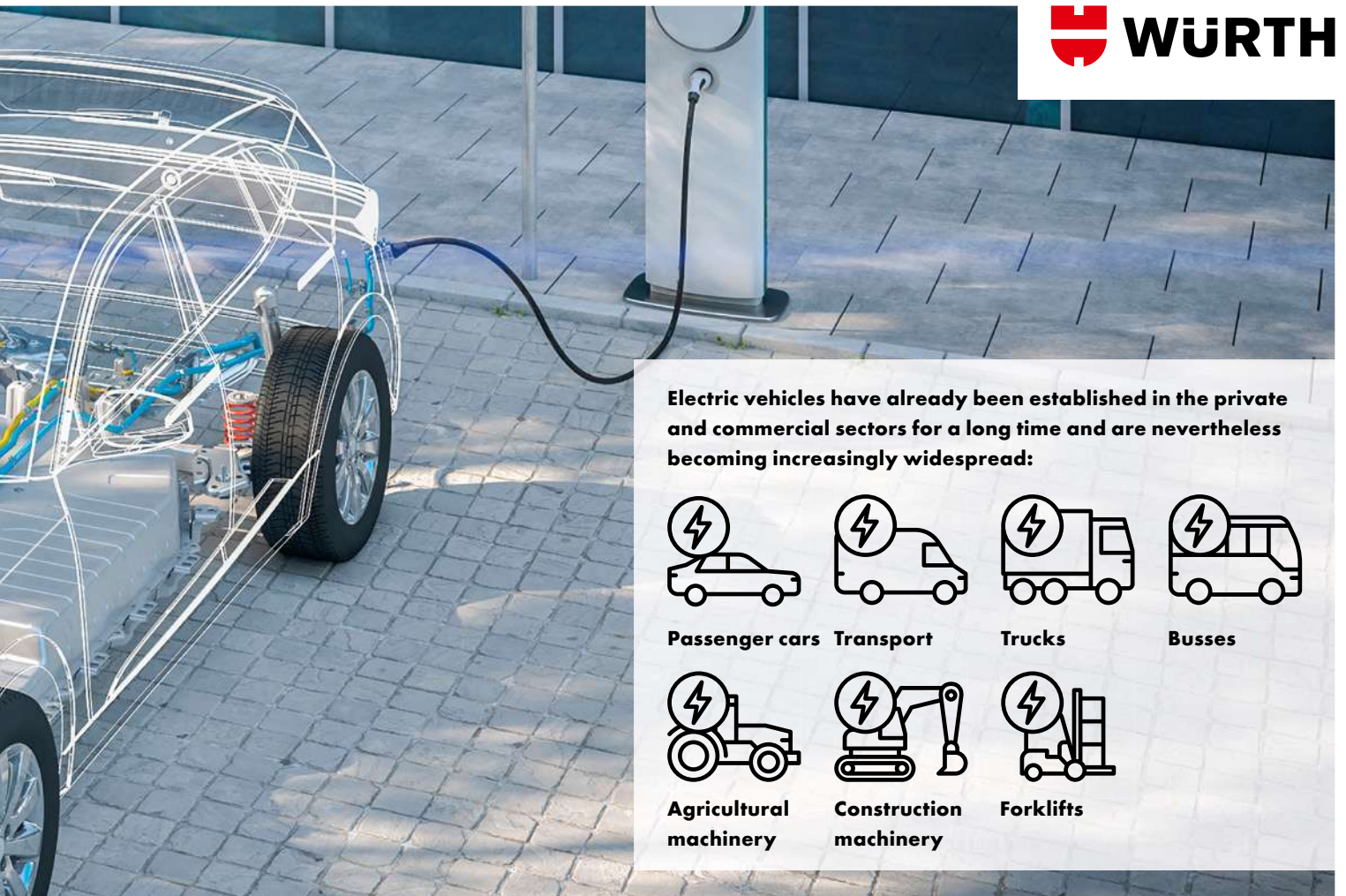
Range Extended Electric Vehicles (REEVs) are electric vehicles that, in addition to the battery, are also equipped with an internal combustion engine, the so-called range extender. In contrast to PHEVs, this additional motor does not drive the vehicle directly, but only supplies electricity for the battery. The following mechanism is used to ensure that the vehicle does not come to a standstill due to an empty battery while driving: The range extender is activated automatically as soon as the battery status is low and keeps it constantly low due to the charging current while driving. REEVs are offered by some car manufacturers because battery technology is currently still expensive.

 Fuel tank

 Battery

 Combustion engine

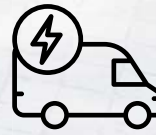
 Electric motor/generator



Electric vehicles have already been established in the private and commercial sectors for a long time and are nevertheless becoming increasingly widespread:



Passenger cars



Transport



Trucks



Busses



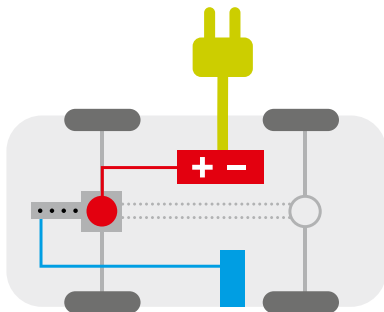
Agricultural machinery



Construction machinery

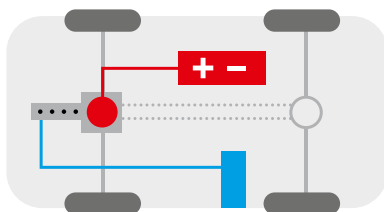


Forklifts



PLUG-IN-ELECTRIC-VEHICLE (PHEV)

Since hybrid vehicles (HEV = Hybrid Electric Vehicle) have an electric motor and internal combustion engine installed at the same time, they combine conventional and electric drive systems. With HEVs, the battery is charged via the internal combustion engine or the regenerated braking energy (recuperation). Plug-in hybrid electric vehicles (PHEVs) are vehicles that use a battery that can be charged directly from the electricity grid. A great advantage of hybrid vehicles is that they can cover shorter distances only using electricity. As the battery technology is constantly being developed, an increase in the electrical portion is expected in the future.



HYBRID VEHICLE (HEV – HYBRID ELECTRIC VEHICLE)

A hybrid is a vehicle that is equipped with an internal combustion engine and an electric motor. There are differences in construction and hybridization. In general, the electric motor supports the combustion engine especially when starting up, when the engine has poor efficiency. This means that fuel consumption can be reduced by 15 - 25 %. The difference between a classic hybrid and a plug-in hybrid is that a full hybrid can only be operated electrically over very short distances.

PLUG TYPES AND CHARGING CABLES



CHARGING CABLES FOR CHARGING ELECTRIC

Mode 2 charging cable

Mode 2 charging cables, of which there are many different variants, are often supplied from the factory by the respective car manufacturer. Since these cables can be connected to an ordinary household socket, the driver of an electric vehicle is able to charge flexible and comfortable. The in-cable control box (ICCB) is connected between the vehicle plug and connector plug and acts as a communicator between the electric vehicle and the charging connector.

Mode 3 charging cable

A Mode 3 charging cable is used to connect an electric vehicle to a charging station, allowing for charging power of up to 43 kW. In Europe, the Type 2 plug is the standard, so most charging stations are equipped with a Type 2 socket. This setup allows both Type 1 and Type 2 electric vehicles to be charged.

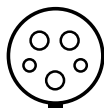
To charge an electric car, the appropriate Mode 3 cable is required:

Type 2 to Type 2 cable (e.g., for a Renault ZOE)

Type 2 to Type 1 cable (e.g., for a Nissan Leaf)

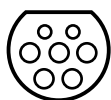
The choice of cable depends on the vehicle's connector type.

TYPES OF CONNECTORS FOR ELECTRIC CARS



Type 1 connector

A single-phase type 1 connector enables charging powers of up to 7.4 kW (230 V, 32 A). Since this standard is primarily found in car models from Asia and is rarely used in Europe, there are hardly any charging stations where a type 1 charging cable is permanent.



Type 2 connector

In Europe, the widely used three-phase plug is the standard which allows charging capacities of up to 22 kW (400 V, 32 A) in private homes and up to 43 kW (400 V, 63 A) at public charging stations. Since these are usually equipped with a type 2 socket, to which each mode 3 charging cable can be connected, it is possible to charge electric vehicles with both type 1 and type 2 plugs. The so-called Mennekes connector (type 2) is attached to the charging station for all mode 3 cables.



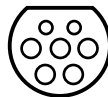
Combo plug (Combined Charging System CCS)

The combo plug (CCS) extends the type 2 plug via a quick charging function with two additional power contacts. This connector is intended to support AC and DC charging (alternating and direct current charging) with up to 170 kW, although in practice the value is more likely to be 50 kW.



CHAdeMO plug

This is a fast charging system that was developed in Japan and enables charging capacities of up to 100 kW, although most public charging stations only provide a capacity of up to 50 kW. CHAdeMO is compatible with vehicles from several car manufacturers such as Honda, Peugeot, Mitsubishi and some Tesla models, however, the CHAdeMO variant is becoming less and less important in Europe. Less than 5 % of all vehicles sold in Europe use CHAdeMO technology, which is why this connection is increasingly being dispensed with in new charging stations.



Tesla Supercharger

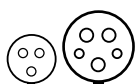
Tesla's Superchargers are a modified version of the Mennekes Type 2 plug and allow 80% charging of the Model S within 30 minutes at a charging capacity of up to 120 kW DC. While Tesla Superchargers are not yet available for other vehicle brands, charging is a free service for Tesla customers.

PLUGS AT HOME, IN GARAGES AND ON THE GO



Schuko sockets

Schuko sockets, the common household socket in most of continental Europe, are sometimes attached to public charging stations and allow all electric vehicles to be charged using a mode 2 charging cable. Although a charging power of up to 3.7 kW (230 V, 16 A) can be achieved with appropriate protection, a maximum charging power of 2.3 kW (230 V, 10 A) is recommended without checking the socket beforehand.



CEE plug

The CEE plug is available in different versions. The single-phase, blue version, also known as the "camping" plug, enables a charging capacity of up to 3.7 kW (230 V, 16 A). There is also a three-phase red version for industrial sockets. The smaller industrial plug (CEE16) allows charging capacities of up to 11 kW (400 V, 16 A), while the larger industrial plug (CEE32) supports charging capacities of up to 22 kW (400 V, 32 A).

WORKPLACE



Plastic barrier post with base for barrier chains

Multi-use barrier post with recycled PVC base; ideal for cordoning off hazardous areas to protect employees and visitors

Height: 0.93 m
 Colour: Black-yellow
Art. no. 0899 610 110
 P. Qty./unit 2



Aluminium barrier post with base for barrier chains

Multi-use barrier post with recycled PVC base; ideal for cordoning off hazardous areas to protect employees and visitors

Height: 1.4 m
 Colour: Black-yellow
Art. no. 0899 610 103
 P. Qty./unit 1

Height: 0.9 m
 Colour: Black-yellow
Art. no. 0899 610 105
 P. Qty./unit 1



Plastic chain

For blocking off, securing and use as rain run-off chains



Diameter: 6 mm
 Colour: Black-yellow
 Length: 25 m
Art. no. 0899 610 613
 P. Qty./unit 1

Diameter: 8 mm
 Colour: Black-yellow
 Length: 25 m
Art. no. 0899 610 813
 P. Qty./unit 1

ACCESSORIES

Hook link for plastic chains



Diameter: 6 mm
 Colour: Black
Art. no. 0899 612 632
 P. Qty./unit 10

Composite link for plastic chains

Diameter: 6 mm
 Colour: Black
Art. no. 0899 613 632
 P. Qty./unit 10

Diameter: 8 mm
 Colour: Black
Art. no. 0899 613 636
 P. Qty./unit 10



Replacement cap for plastic bollards with base

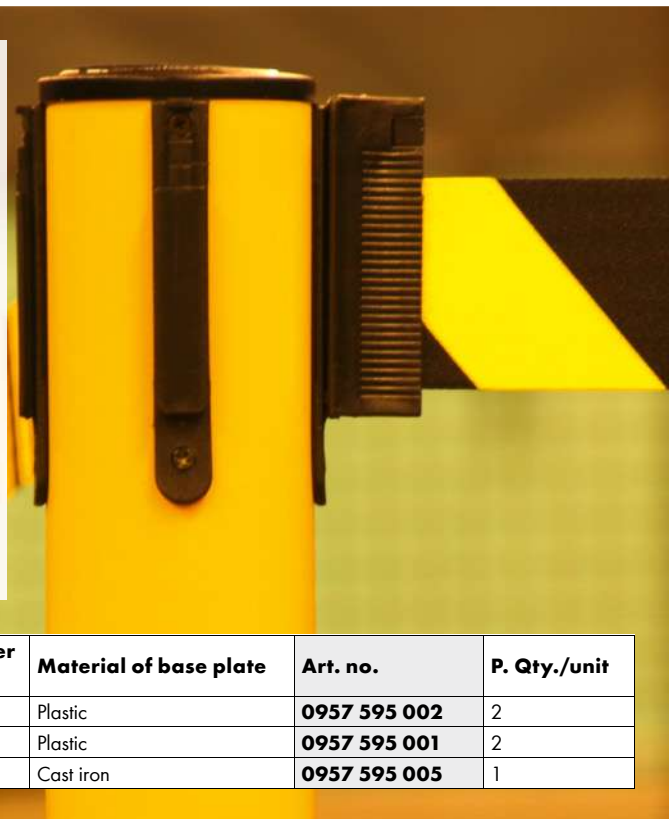
Colour: Black
Art. no. 0899 610 111
 P. Qty./unit 4



Barricade post with pull-out belt

Post system for a mobile, primarily visual or symbolic barrier. The pull-out belt can be attached to another post, wall cassette or wall clip.

- Mobile and flexible barrier
- Safe belt return and good stability
- The barrier can be flexibly configured using wall cassette and wall clip



| Post diameter | Material | Colour | Base plate diameter | Product weight (per item) | Material of base plate | Art. no. | P. Qty./unit |
|---------------|----------|---------------|---------------------|---------------------------|------------------------|--------------|--------------|
| 63.5 mm | Metal | Yellow, Black | 350 mm | 10.5 kg | Plastic | 0957 595 002 | 2 |
| 63.5 mm | Plastic | Yellow, Black | 410 mm | 8 kg | Plastic | 0957 595 001 | 2 |
| 100 mm | Metal | Black | 350 mm | 11 kg | Cast iron | 0957 595 005 | 1 |

Wall cassette with belt pull-out for barriers

Alternative to a bollard if a permanent barrier is required or space is limited.

- Space-saving solution for permanent barriers
- Secure belt return and flexible belt pull-out
- The barrier can be flexibly configured using bollard and wall clip

Application area

For cordoning off hazardous areas or for controlling the flow of people



| | |
|-----------------|--------------|
| Material | Textile |
| Colour | Yellow-black |
| Width | 50 mm |

| | Length | Type description | Material of housing | Art. no. | P. Qty./unit |
|---|---------|------------------|---------------------|--------------|--------------|
| 1 | 3000 mm | A | Metal | 0957 595 021 | 1 |
| 2 | 4000 mm | G | Metal | 0957 595 020 | 1 |
| 3 | 8000 mm | G | Plastic | 0957 595 025 | 1 |

ACCESSORIES

Wall clip for extendable warning tapes

Simple placement of barrier tape end pieces in barrier post and wall cassettes with belt extraction.



| | |
|-----------------|---------|
| Material | Plastic |
| Colour | Black |

| Type description | Art. no. | P. Qty./unit |
|------------------|--------------|--------------|
| A | 0957 595 031 | 1 |
| G | 0957 595 030 | 1 |



Warning marking adhesive tape

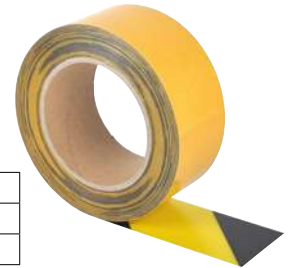
The ideal solution for a wide range of applications, e.g. all types of edges, working areas, car lifting platforms, steps and bundling. Meets the requirements of DIN 4844 or DIN EN ISO 7010.



| Width | Art. no. | P. Qty./unit |
|-------|--------------------|--------------|
| 50 mm | 0812 44 660 | 1 |
| 75 mm | 0812 44 661 | 1 |

Heavy Duty reflective tape

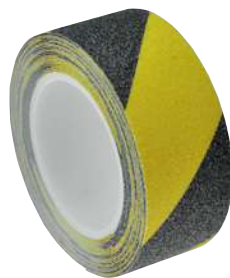
Adhesive tape with high material thickness for universal simple floor marking in a wide range of applications, e.g. marking safety areas, hazardous areas, working areas, car lifting platforms, steps.



| Width | Art. no. | P. Qty./unit |
|-------|--------------------|--------------|
| 50 mm | 0812 44 664 | 1 |
| 75 mm | 0812 44 665 | 1 |

Warning adhesive tape, non-slip, standard

Non-slip reflective tape for hazardous areas in indoor and outdoor areas, such as the edge of steps and ramps, working areas, lifting platforms, workshop pits and wet areas.



| Width | Art. no. | P. Qty./unit |
|-------|--------------------|--------------|
| 50 mm | 0812 44 672 | 1 |
| 75 mm | 0812 44 673 | 1 |

Warning adhesive tape, non-slip, aluminium-laminated

Malleable non-slip tape. Non-slip rating R13 in accordance with DIN 51130 for indoor and outdoor use of profiled surfaces such as checker plate and non-slip reflective tape for hazardous areas, including the edge of steps and ramps, working areas, lifting platforms, workshop pits and wet areas.



| Width | Art. no. | P. Qty./unit |
|-------|--------------------|--------------|
| 25 mm | 0812 44 677 | 1 |
| 50 mm | 0812 44 676 | 1 |

Safety and warning sign — dangerous electrical voltage

Self-adhesive



| Limb length | Art. no. | P. Qty./unit |
|-------------|---------------------|--------------|
| 25 mm | 0967 193 301 | 100 |
| 50 mm | 0967 193 302 | 50 |
| 100 mm | 0967 193 303 | 50 |

Tetrahedral warning sign

"Dangerous electrical voltage"
With magnetic base



Length x width x height:
150 x 170 x 150 mm
Colour: Yellow, Black
Art. no. 0967 933 501
P. Qty./unit 5

E-mobility info sign

For marking vehicles



Length x width: 140 x 440 mm

Art. no. 0967 812 165

P. Qty./unit 1



Length x width: 120 x 70 mm

Art. no. 0967 812 168

P. Qty./unit 10

Cable tie with plastic tongue, coloured

Reliable coloured cable ties for easy identification and rapid organisation of indoor cables and more



Colour: Orange

Width: 3.5 mm

Length: 200 mm

Art. no. 0502 420

P. Qty./unit 100

VDE push-on grommet set 3 pieces made from insulating solid plastic

For protection against contact with live conductors especially in the field of electromobility



Colour: Red

Length: 80 mm

Art. no. 0771 200 001

P. Qty./unit 1

VDE self-clamping grommet made from insulating solid plastic

For protection against contact with live conductors especially in the field of electromobility



Colour: Red

Length: 80 mm

Art. no. 0771 200 005

P. Qty./unit 2

Colour: Red

Length: 100 mm

Art. no. 0771 200 006

P. Qty./unit 2

Colour: Red

Length: 110 mm

Art. no. 0771 200 007

P. Qty./unit 2

Plastic clamp VDE

Insulated plastic clamp for attaching e.g. a protective cover.

Width: 106 mm

Length: 150 mm

Art. no. 0714 01 607

P. Qty./unit 1



System workshop trolley BASIC 8.8, empty for E-Mobility

ORSY

Spacious, resilient workshop trolley in an electromobility design that can be combined with the required electromobility accessories

| | |
|--|--|
| Art. no. | 0962 647 100 |
| Colour | Orange |
| Width x depth x height (external dimension) | 880 x 532 x 1022 mm |
| Number of rolls | 4 PCS |
| Design of the rolls | 1 swivel castor with brake (D: 125 mm), 1 swivel castor without brake (D: 125 mm), 2 fixed castors without brake (D: 125 mm) |
| Surface | Powder-coated |
| Number of drawers | 7 PCS |
| Material | Sheet steel |
| Pullout type | Full extension, Ball-bearing |
| Load capacity | 300 kg |
| Load capacity of drawer | 30 kg |
| P. Qty./unit | 1 |

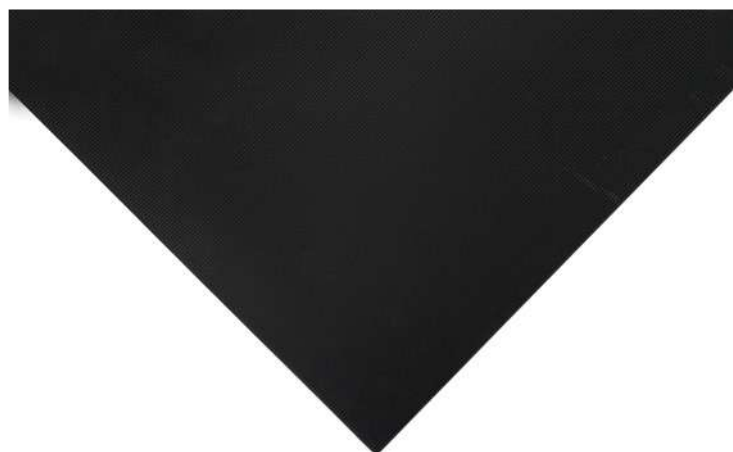


Safety padlock, type 1

Forced locking, the key can only be removed when locked



Insulating mat for work on live parts in accordance with EN 61111



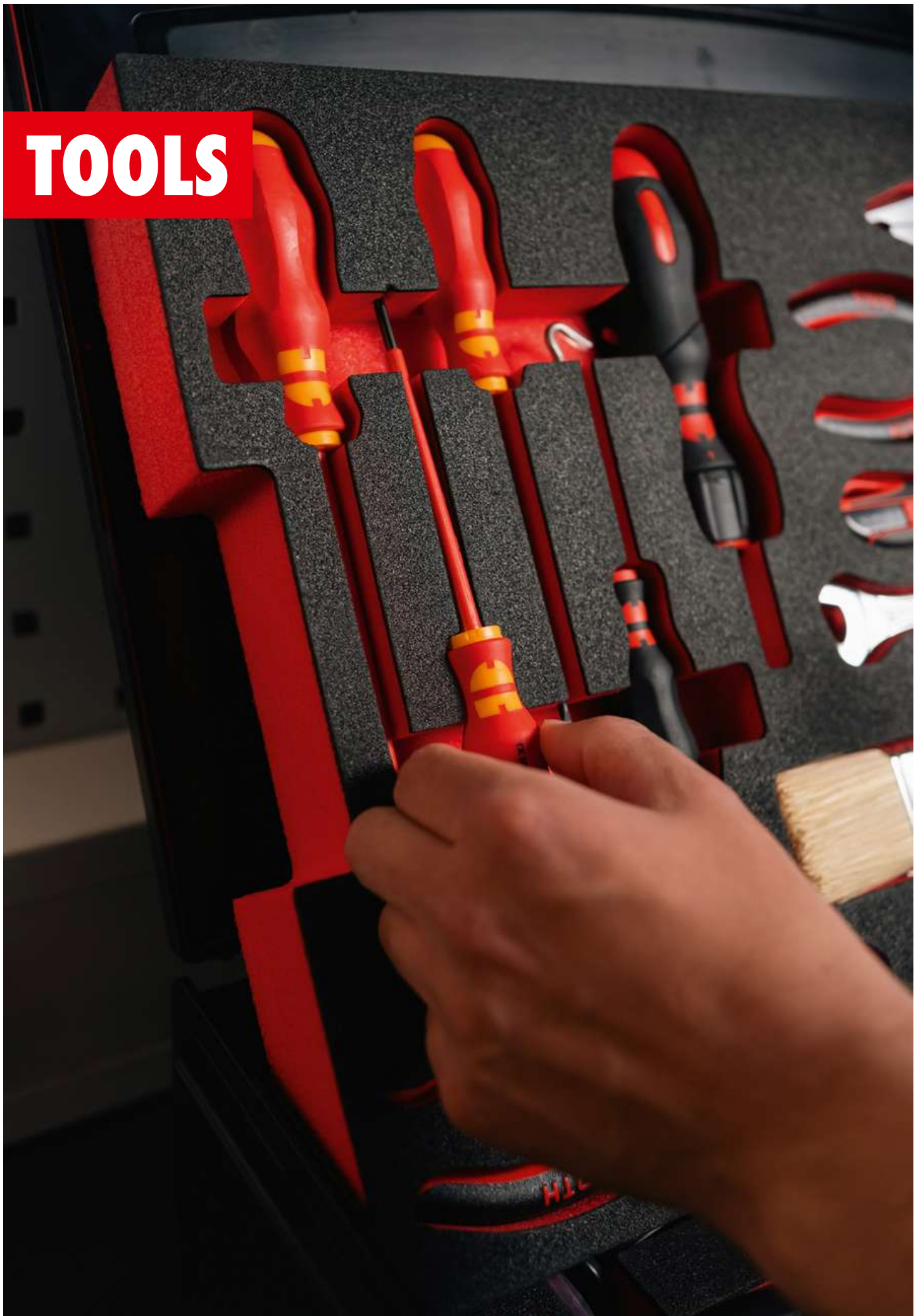
| | |
|--------------------|--------------------|
| Design | Customized cutting |
| EN standard | BS EN 61111:2009 |
| Colour | Black |
| Material | Rubber |

| Class | Length x width x thickness | Art. no. | P. Qty./unit |
|-------------------------------------|-----------------------------------|---------------------|---------------------|
| 0 - Operating voltage < 1000 volts | 100 x 1000 x 3 mm | 0957 590 230 | 1 |
| 2 - Operating voltage < 17000 volts | 100 x 1000 x 4 mm | 0957 590 231 | 1 |
| 4 - Operating voltage < 36000 volts | 100 x 1000 x 5 mm | 0957 590 232 | 1 |

Art. no. 0688 905 010

P. Qty./unit 1

TOOLS



**System assortment 4.4.1,
VDE screwdriver 6 pieces**



Width x height x depth:
231 x 38 x 335 mm
Art. no. 0965 905 500
P. Qty./unit 1

**System assortment 4.4.1,
screwdriver VDE 14 pieces**



Width x height x depth:
231 x 38 x 335 mm
Art. no. 0965 905 415
P. Qty./unit 1

**System assortment 2.4.1, precision
mechanic's screwdrivers VDE 7 pieces**



Width x height x depth:
115 x 38 x 335 mm
Art. no. 0965 905 414
P. Qty./unit 1

**System assortment 4.4.1,
screwdrivers VDE TX 6 pieces**



Width x height x depth:
231 x 38 x 335 mm
Art. no. 0965 905 416
P. Qty./unit 1

**System assortment 4.4.1,
pliers VDE 4 pieces**



Width x height x depth:
231 x 38 x 335 mm
Art. no. 0965 905 607
P. Qty./unit 1

**System assortment 6.4.1,
pliers VDE 6 pieces**



Width x height x depth:
345 x 38 x 335 mm
Art. no. 0965 905 413
P. Qty./unit 1

**System assortment 6.4.1,
box-end wrench VDE 9 pieces**



Width x height x depth:
346 x 38 x 335 mm
Art. no. 0965 905 422
P. Qty./unit 1

**System assortment 4.4.1,
single open-end wrench VDE 9 pieces**



Width x height x depth:
346 x 38 x 335 mm
Art. no. 0965 905 426
P. Qty./unit 1

**System assortment 2.4.1,
socket wrench 3/8 inch TX
long VDE 6 pieces**



Width x height x depth:
115 x 38 x 335 mm

Art. no. 0965 905 423

P. Qty./unit 1

**System assortment 6.4.1,
socket wrench 1/2 inch
VDE 17 pieces**



Width x height x depth:
346 x 38 x 335 mm

Art. no. 0965 905 421

P. Qty./unit 1

**System assortment
4.4.1, socket wrench 1/2 inch
VDE 8 pieces**



Width x height x depth:
231 x 38 x 335 mm

Art. no. 0965 905 425

P. Qty./unit 1

**System assortment 2.4.1,
socket wrench 3/8 inch
hexagon VDE 6 pieces**



Width x height x depth:
115 x 38 x 335 mm

Art. no. 0965 905 428

P. Qty./unit 1

**System assortment 2.4.1,
socket wrench 3/8 inch TX
short VDE 6 pieces**



Width x height x depth:
115 x 38 x 335 mm

Art. no. 0965 905 424

P. Qty./unit 1

**System assortment 4.4.1,
socket wrench 3/8 inch
VDE 17 pieces**



Width x height x depth:
231 x 38 x 335 mm

Art. no. 0965 905 427

P. Qty./unit 1

**System assortment 8.4.1,
socket wrenches 3/8 inch
VDE 24 pieces**



Width x height x depth:
462 x 38 x 335 mm

Art. no. 0965 905 417

P. Qty./unit 1

System workshop trolley BASIC 8.8, equipped 98 pieces for E-Mobility

ORSY



Art. no. 0988 016 799

P. Qty./unit 1

| Contents for Art. no. | |
|-----------------------|---|
| 0988 016 799 | <p>1 x System workshop trolley BASIC 8.8, empty for electromobility; 1 x System assortment 2.4.1, socket wrench 3/8 inch TX long VDE 6 pieces; 1 x System assortment 2.4.1, socket wrench 3/8 inch TX short VDE 6 pieces; 1 x System assortment 4.4.1, socket wrench 3/8 inch VDE 17 pieces; 1 x System assortment 2.4.1, socket wrench 3/8 inch hexagon VDE 6 pieces; 1 x System assortment 2.4.1, precision mechanic's screwdrivers VDE 7 pieces; 1 x System assortment 4.4.1, screwdriver VDE 14 pieces; 1 x System assortment 4.4.1, screwdrivers VDE TX 6 pieces; 1 x System assortment 4.4.1, screwdrivers VDE hexagon head 8 pieces; 1 x System assortment 4.4.1, VDE SL/PH screwdrivers 5 pieces; 1 x System assortment 6.4.1, box-end wrench VDE 9 pieces; 1 x System assortment 4.4.1, single open-end wrench VDE 9 pieces; 1 x System assortment 4.4.1, pliers VDE 4 pieces</p> |

System workshop trolley BASIC 8.8, equipped 88 pieces for E-Mobility

ORSY



Art. no. 0988 016 800

P. Qty./unit 1

| Contents for Art. no. | |
|-----------------------|--|
| 0988 016 800 | <p>1 x System workshop trolley BASIC 8.8, empty for electromobility; 1 x System assortment 6.4.1, socket wrench 1/2 inch VDE 17 pieces; 1 x System assortment 4.4.1, socket wrench 1/2 inch VDE 8 pieces; 1 x System assortment 2.4.1, precision mechanic's screwdrivers VDE 7 pieces; 1 x System assortment 4.4.1, screwdriver VDE 14 pieces; 1 x System assortment 4.4.1, screwdrivers VDE TX 6 pieces; 1 x System assortment 4.4.1, screwdrivers VDE hexagon head 8 pieces; 1 x System assortment 4.4.1, VDE SL/PH screwdrivers 5 pieces; 1 x System assortment 6.4.1, box-end wrench VDE 9 pieces; 1 x System assortment 4.4.1, single open-end wrench VDE 9 pieces; 1 x System assortment 4.4.1, pliers VDE 4 pieces</p> |

Tool case 16 pieces in system case 8.4.1.



Especially suitable for electric and hybrid vehicles.



Length x width x height:
500 x 380 x 87 mm

Art. no. 5964 502 001

P. Qty./unit 1

| Contents for Art. no. | |
|-----------------------|---|
| 5964 502 001 | <p>1 x VDE screwdriver, flat slotted 1.0 x 5.5 mm; 1 x VDE screwdriver, PH recessed head For working on live parts up to 1,000 V (AC) and up to 1,500 V (DC) Blade length: 100 mm, PH2, 2; 1 x VDE snipe nose pliers DIN ISO 5745, IEC 60900 200 mm; 1 x VDE 3/8 inch extension 167 mm; 1 x VDE 3/8 inch ratchet 200 mm; VDE 3/8 inch socket wrench, metric, hexagon, long: 1 x 8 mm, 1 x 10 mm, 1 x 12 mm; 1 x Multi-Tester Pro II LED two-pin voltage tester; 3 x Insulating caps 3.5 kV 8-14 mm; 1 x Safety goggles CEPHEUS® Clear; 1 x Voltage protective glove For working voltages up to 1,000 V/AC Size: 10; 2 x Electrical insulating tape Red; 1 x System case 8.4.1 500 x 380 x 85 mm</p> |

Tool case 32 pieces in system case 8.4.2.



Especially suitable for electric and hybrid vehicles.



Length x width x height:
500 x 380 x 140 mm

Art. no. 5964 502 002

P. Qty./unit 1

| Contents for Art. no. | |
|-----------------------|---|
| 5964 502 002 | <p>2 x Electrical insulating tape Red; 1 x Multi-Tester Pro II LED two-pin voltage tester; 1 x Safety goggles CEPHEUS® Clear; 1 x Voltage protective glove For working voltages up to 1,000 V/AC Size: 10; 3 x Insulating caps 3.5 kV 8-14 mm; 1 x VDE snipe nose pliers DIN ISO 5745, IEC 60900 200 mm; 1 x VDE combination pliers DIN ISO 5746, IEC 60900; VDE screwdriver, PH recessed head For working on live parts up to 1,000 V (AC) and up to 1,500 V (DC): 1 x Blade length: 80 mm, PH1, 1, 1 x Blade length: 100 mm, PH2, 2; VDE screwdriver, flat slotted: 1 x 0.6 x 3.5 mm, 1 x 1.0 x 5.5 mm; 1 x VDE 3/8 inch ratchet 200 mm; 1 x VDE 3/8 inch extension 167 mm; VDE 3/8 inch socket wrench, metric, hexagon, long: 1 x 8 mm, 1 x 10 mm; 1 x VDE 3/8 inch socket wrench, metric, hexagon, long 12 mm; 1 x VDE 3/8 inch socket wrench, hexagon socket 4 mm; VDE 3/8 inch socket wrench, metric, hexagon, short: 1 x 8 mm, 1 x 10 mm, 1 x 12 mm, 1 x 13 mm, 1 x 14 mm, 1 x 17 mm; VDE metric box-end wrench: 1 x 8 mm, 1 x 10 mm, 1 x 12 mm, 1 x 13 mm, 1 x 14 mm, 1 x 17 mm;</p> |



Our VDE tools and suitable protective equipment are also available separately. Find out more in the Würth Online Shop or in the App!

METRAHIT IN E-DRIVE BT multimeter

All-in-one device with 30,000 digits: milliohmmeter and multimeter, datalogger, insulation resistance and winding/shorted coil tester

- Insulation resistance measurement up to 3.1 GΩ with external voltage detection, test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V in accordance with EN 61557-2
- 4-wire milliohm measurement (Kelvin connection) with 200 mA or 1 A measuring current for precise measurement of the smallest resistances with 1 μΩ resolution
- 2-wire RLO measurement with 200 mA test current in accordance with EN 61557-4

Length x width x height:
245 x 120 x 55 mm

Art. no. 5634 000 201

P. Qty./unit 1



Multi-Tester Pro II LED two-pin voltage tester

Overvoltage category CAT IV (1,000 V) - suitable for use in electrical installation and servicing work, and for testing hybrid and electric vehicles and photovoltaic systems

- Test equipment with maximum safety level
- Displays voltages from approx. 45 V/AC and 110 V/DC
- FI/RCD test with two keys
- Improved hold in safety socket and CEE socket
- Suitable for narrow test openings

Length: 300 mm

Art. no. 0715 53 165

P. Qty./unit 1



Multi-Tester Pro II LCD two-pin voltage tester

Overvoltage category CAT IV (1,000 V) - suitable for use in electrical installation and servicing work, and for testing hybrid and electric vehicles and photovoltaic systems

- Displays voltages from approx. 45 V/AC and 110 V/DC
- FI/RCD test with two keys
- Improved hold in safety socket and CEE socket
- Suitable for narrow test openings

Length: 300 mm

Art. no. 0715 53 175

P. Qty./unit 1



Infrared laser thermometer

For contact-free measurement of surface temperatures, with integrated laser pointer

- Ergonomic, practical and suitable for use anywhere
- Thanks to the two-point laser beam, the measuring point can be focused even more precisely
- With integrated display lighting



Art. no. 0715 53 110

P. Qty./unit 1



VDE pliers assortment, IEC 60900 4 pieces



Art. no. 0714 01 581

P. Qty./unit 1

| Contents for Art. no. | |
|-----------------------|--|
| 0714 01 581 | 1 x VDE side cutters, DIN ISO 5749 IEC 60900 160 mm; 1 x VDE combination pliers DIN ISO 5746, IEC 60900; 1 x VDE snipe nose pliers DIN ISO 5745, IEC 60900 200 mm; 1 x VDE cable cutters with single blade |

VDE pliers assortment, IEC 60900 4 pieces



Art. no. 0714 01 580

P. Qty./unit 1

| Contents for Art. no. | |
|-----------------------|---|
| 0714 01 580 | 1 x VDE wire stripping pliers, IEC 60900; 1 x VDE side cutters, DIN ISO 5749 IEC 60900 160 mm; 1 x VDE combination pliers DIN ISO 5746, IEC 60900; 1 x VDE snipe nose pliers DIN ISO 5745, IEC 60900 200 mm |

VDE pliers assortment, combi IEC 60900 8 pieces



Art. no. 0714 01 582

P. Qty./unit 1

| Contents for Art. no. | |
|-----------------------|--|
| 0714 01 582 | VDE screwdriver, flat slotted: 1 x 0.4 x 2.5 mm, 1 x 0.8 x 4.0 mm, 1 x 1.2 x 6.5 mm; VDE screwdriver, PH recessed head For working on live parts up to 1,000 V (AC) and up to 1,500 V (DC): 1 x Blade length: 80 mm, PH1, 1, 1 x Blade length: 100 mm, PH2, 2; 1 x VDE wire stripping pliers, IEC 60900; 1 x VDE side cutters, DIN ISO 5749 IEC 60900 160 mm; 1 x VDE snipe nose pliers DIN ISO 5745, IEC 60900 200 mm |

VDE water pump pliers DIN ISO 8976 - IEC 60900

For gripping, holding and tightening and loosening nuts and screws



Length: 255 mm

Art. no. 0714 01 583

P. Qty./unit 1 / 5

Wire stripping pliers, adjustable

Integrated cutting depth adjustment for fine adjustment with different insulation materials



Length x width x height:
195 x 23 x 134 mm

Art. no. 0714 108 016

P. Qty./unit 1



The semi-circular pair of blades, which glide smoothly past each other, ensures a precise and comprehensive cut of the insulation. Instead of tearing, the insulation is cleanly separated, resulting in a right-angled cutting outcome.



The penetration depth of the two knives can be adjusted very finely using the adjustment wheel, with eight detents per direction. This allows cables with the same cross-section yet different insulation thicknesses to be cleanly stripped to the same extent.



Recessed cable cutters for copper and aluminium wires, 0.08-16.0 mm².

VDE screwdriver set for hexagon drive 6 pieces



Art. no. 0613 936 66

P. Qty./unit 1

| Contents for Art. no. | |
|-----------------------|---|
| 0613 936 66 | VDE screwdriver For hexagon drive: 1 x 5.5 mm, 1 x 6 mm, 1 x 7 mm, 1 x 8 mm, 1 x 10 mm, 1 x 13 mm |

VDE screwdriver TX set 6 pieces



Art. no. 0613 962 35

P. Qty./unit 1

| Contents for Art. no. | |
|-----------------------|---|
| 0613 962 35 | VDE screwdriver, TX: 1 x TX8, 1 x TX9, 1 x TX10, 1 x TX15, 1 x TX20, 1 x TX25 |

VDE screwdriver set slotted/PH 5 pieces



Art. no. 0613 963 250

P. Qty./unit 1

| Contents for Art. no. | |
|-----------------------|--|
| 0613 963 250 | VDE screwdriver, flat slotted, ultra slim : 1 x 0.4 x 2.5 mm, 1 x 0.8 x 4 mm, 1 x 1 x 5.5 mm; VDE screwdriver, PH recessed head, extra slim: 1 x PH1, 1 x PH2 |

VDE screwdriver set, slotted/PH recessed head 5 pieces



Art. no. 0613 963 25

P. Qty./unit 1

| Contents for Art. no. | |
|-----------------------|--|
| 0613 963 25 | VDE screwdriver, flat slotted: 1 x 0.4 x 2.5 mm, 1 x 0.8 x 4.0 mm, 1 x 1.2 x 6.5 mm; VDE screwdriver, PH recessed head For working on live parts up to 1,000 V (AC) and up to 1,500 V (DC): 1 x Blade length: 80 mm, PH1, 1, 1 x Blade length: 100 mm, PH2, 2 |

VDE 3/8 inch extension

Insulated extension for working around live parts



Length: 167 mm
Art. no. 0715 003 01
 P. Qty./unit 1

VDE 1/2 inch insulated extension

Insulated extension, suitable for working around live parts



Length: 140 mm
Art. no. 0715 005 01
 P. Qty./unit 1

Length: 267 mm
Art. no. 0715 005 02
 P. Qty./unit 1

VDE adjustable wrench

Insulated adjustable wrench for working around live parts



Length: 260 mm
Art. no. 0715 002 710
 P. Qty./unit 1

Length: 310 mm
Art. no. 0715 002 715
 P. Qty./unit 1

VDE 3/8 inch ratchet

Insulated reversible ratchet for working around live parts



Length: 200 mm
Art. no. 0715 003 038
 P. Qty./unit 1

VDE 1/2 inch reversible ratchet tool

1,000 V AC and 1,500 V DC insulated reversible ratchet tool



Length: 255 mm
Art. no. 0715 005 012
 P. Qty./unit 1

VDE 3/8 inch T-handle

Insulated T-handle for working around live parts



Length: 210 mm
Art. no. 0715 003 03
 P. Qty./unit 1

VDE 1/2 inch T-handle

Insulated T-handle for working around live parts



Length: 209 mm
Art. no. 0715 005 03
 P. Qty./unit 1

Straight metric VDE single open-end wrench

Insulated single open-end wrench suitable for working around live parts



| | |
|------------------|-----------------------|
| Surface | VDE insulated |
| Material | Chrome-vanadium steel |
| Standards | EN 60900 DIN 7446 |

| Width across flats (A) | External dimension of wrench head (B) | Handle diameter (C) | Length (L1) | Handle length (L2) | Art. no. | P. Qty./unit |
|------------------------|---------------------------------------|---------------------|-------------|--------------------|---------------------|--------------|
| 8 mm | 23 mm | 16.3 mm | 104 mm | 65 mm | 0715 002 408 | 1 |
| 10 mm | 25 mm | 17.2 mm | 114 mm | 72 mm | 0715 002 410 | 1 |
| 11 mm | 29.5 mm | 19.9 mm | 124 mm | 73 mm | 0715 002 411 | 1 |
| 12 mm | 29.5 mm | 19.9 mm | 124 mm | 75 mm | 0715 002 412 | 1 |
| 13 mm | 34 mm | 23 mm | 154 mm | 97 mm | 0715 002 413 | 1 |
| 14 mm | 34 mm | 23 mm | 154 mm | 97 mm | 0715 002 414 | 1 |
| 15 mm | 42 mm | 25.4 mm | 171 mm | 110 mm | 0715 002 415 | 1 |
| 16 mm | 42 mm | 25.4 mm | 171 mm | 110 mm | 0715 002 416 | 1 |
| 17 mm | 42 mm | 25.4 mm | 171 mm | 110 mm | 0715 002 417 | 1 |
| 18 mm | 46.6 mm | 27.3 mm | 182 mm | 115 mm | 0715 002 418 | 1 |
| 19 mm | 46.6 mm | 27.3 mm | 182 mm | 115 mm | 0715 002 419 | 1 |
| 21 mm | 52 mm | 29 mm | 202 mm | 125 mm | 0715 002 421 | 1 |
| 22 mm | 52 mm | 29 mm | 202 mm | 125 mm | 0715 002 422 | 1 |
| 24 mm | 57 mm | 32 mm | 237 mm | 140 mm | 0715 002 424 | 1 |

VDE metric box-end wrench

Especially suitable for electric and hybrid vehicles



| | |
|------------------|-----------------------|
| Surface | VDE insulated |
| Material | Chrome-vanadium steel |
| Standards | EN 60900 DIN 7447 |

| Width across flats (A) | External diameter of ring (B) | Handle diameter (C) | Length (L1) | Handle length (L2) | Height (H) | Art. no. | P. Qty./unit |
|------------------------|-------------------------------|---------------------|-------------|--------------------|------------|---------------------|--------------|
| 8 mm | 19.7 mm | 17 mm | 164 mm | 92 mm | 18.5 mm | 0715 002 308 | 1 |
| 10 mm | 21 mm | 18.1 mm | 174 mm | 109 mm | 19.1 mm | 0715 002 310 | 1 |
| 11 mm | 22 mm | 19.8 mm | 184 mm | 116 mm | 19.5 mm | 0715 002 311 | 1 |
| 12 mm | 21.5 mm | 19.8 mm | 184 mm | 116 mm | 19.5 mm | 0715 002 312 | 1 |
| 13 mm | 23.5 mm | 22.9 mm | 205 mm | 126 mm | 20.8 mm | 0715 002 313 | 1 |
| 14 mm | 23.5 mm | 22.9 mm | 205 mm | 126 mm | 20.8 mm | 0715 002 314 | 1 |
| 15 mm | 28.5 mm | 24 mm | 216 mm | 134 mm | 22.3 mm | 0715 002 315 | 1 |
| 16 mm | 31 mm | 25 mm | 221 mm | 135 mm | 23.5 mm | 0715 002 316 | 1 |
| 17 mm | 26.5 mm | 25 mm | 221 mm | 135 mm | 23.5 mm | 0715 002 317 | 1 |
| 18 mm | 34.5 mm | 27 mm | 237 mm | 136 mm | 26 mm | 0715 002 318 | 1 |
| 19 mm | 34.8 mm | 27 mm | 237 mm | 136 mm | 26 mm | 0715 002 319 | 1 |
| 21 mm | 39 mm | 30 mm | 257 mm | 150 mm | 28.1 mm | 0715 002 321 | 1 |

VDE 3/8 inch socket wrench, metric, hexagon, long

Insulated socket, suitable for working around live parts



| Width across flats | Socket wrench depth (L3) | Socket wrench external diameter 2 (D2) | Art. no. | P. Qty./unit |
|--------------------|--------------------------|--|--------------|--------------|
| 8 mm | 7.5 mm | 15.5 mm | 0715 003 08 | 1 |
| 10 mm | 9 mm | 17.2 mm | 0715 003 10 | 1 |
| 12 mm | 12 mm | 19.8 mm | 0715 003 12 | 1 |
| 13 mm | 12 mm | 21.1 mm | 0715 003 013 | 1 |
| 14 mm | 15 mm | 22.3 mm | 0715 003 014 | 1 |
| 17 mm | 15 mm | 26.1 mm | 0715 003 017 | 1 |

**VDE 1/2 inch insulated socket wrench
For hexagon sockets**

1,000 V AC and 1,500 V DC insulated socket wrench



| Width across flats | Art. no. | P. Qty./unit |
|--------------------|--------------|--------------|
| 4 mm | 0715 005 304 | 1 |
| 5 mm | 0715 005 305 | 1 |
| 6 mm | 0715 005 306 | 1 |
| 8 mm | 0715 005 308 | 1 |
| 10 mm | 0715 005 310 | 1 |

VDE 3/8 inch socket wrench, metric, hexagon, short

Insulated socket, suitable for working around live parts



| Width across flats | Length (L1) | Socket wrench depth (L3) | Socket wrench external diameter | Socket wrench external diameter 2 (D2) | Art. no. | P. Qty./unit |
|--------------------|-------------|--------------------------|---------------------------------|--|--------------|--------------|
| 8 mm | 44.5 mm | 5 mm | 21.9 mm | 15.4 mm | 0715 003 108 | 1 |
| 10 mm | 44.5 mm | 6 mm | 21.9 mm | 17.1 mm | 0715 003 110 | 1 |
| 11 mm | 44.5 mm | 7 mm | 22.5 mm | 18.6 mm | 0715 003 111 | 1 |
| 12 mm | 44.5 mm | 8 mm | 21.9 mm | 19.6 mm | 0715 003 112 | 1 |
| 13 mm | 44.5 mm | 8 mm | 21.9 mm | 20.9 mm | 0715 003 113 | 1 |
| 14 mm | 44.5 mm | 10 mm | 21.9 mm | 22.1 mm | 0715 003 114 | 1 |
| 15 mm | 46.5 mm | 10 mm | 22.5 mm | 23.6 mm | 0715 003 115 | 1 |
| 16 mm | 46.5 mm | 10 mm | 22.5 mm | 24.8 mm | 0715 003 116 | 1 |
| 17 mm | 46.5 mm | 10 mm | 21.9 mm | 25.9 mm | 0715 003 117 | 1 |
| 19 mm | 46.5 mm | 12 mm | 22.5 mm | 28.4 mm | 0715 003 119 | 1 |

VDE 3/8 inch socket wrench, hexagon socket

Insulated socket, suitable for working around live parts



| Width across flats | Art. no. | P. Qty./unit |
|--------------------|-------------|--------------|
| 4 mm | 0715 004 04 | 1 |
| 5 mm | 0715 004 05 | 1 |
| 6 mm | 0715 004 06 | 1 |
| 8 mm | 0715 004 08 | 1 |
| 10 mm | 0715 004 10 | 1 |

**VDE 1/2 inch insulated socket wrench
Metric, hexagon, short**

Insulated socket, suitable for working around live parts



| Width across flats | Socket wrench depth (L3) | Socket wrench external diameter 2 (D2) | Art. no. | P. Qty./unit |
|--------------------|--------------------------|--|---------------------|--------------|
| 10 mm | 6 mm | 18.7 mm | 0715 005 110 | 1 |
| 11 mm | 7 mm | 19.9 mm | 0715 005 111 | 1 |
| 12 mm | 8 mm | 21.2 mm | 0715 005 112 | 1 |
| 13 mm | 8 mm | 22.4 mm | 0715 005 113 | 1 |
| 14 mm | 10 mm | 23.7 mm | 0715 005 114 | 1 |
| 15 mm | 10 mm | 25.1 mm | 0715 005 115 | 1 |
| 16 mm | 10 mm | 26.4 mm | 0715 005 116 | 1 |
| 17 mm | 10 mm | 27.4 mm | 0715 005 117 | 1 |
| 18 mm | 12 mm | 29.2 mm | 0715 005 118 | 1 |
| 19 mm | 12 mm | 29.9 mm | 0715 005 119 | 1 |
| 21 mm | 12 mm | 31.3 mm | 0715 005 121 | 1 |
| 22 mm | 14 mm | 33.7 mm | 0715 005 122 | 1 |
| 24 mm | 16 mm | 35.4 mm | 0715 005 124 | 1 |

**VDE 1/2 inch socket wrench
Metric, hexagon, long**

Insulated socket wrench insert for working around live parts



| Width across flats | Socket wrench depth (L3) | Socket wrench external diameter 2 (D2) | Art. no. | P. Qty./unit |
|--------------------|--------------------------|--|---------------------|--------------|
| 10 mm | 9 mm | 20.5 mm | 0715 005 210 | 1 |
| 11 mm | 10.5 mm | 21.7 mm | 0715 005 211 | 1 |
| 12 mm | 10.5 mm | 23 mm | 0715 005 212 | 1 |
| 13 mm | 12 mm | 23.5 mm | 0715 005 213 | 1 |
| 14 mm | 15 mm | 25.5 mm | 0715 005 214 | 1 |
| 15 mm | 15 mm | 26.5 mm | 0715 005 215 | 1 |
| 16 mm | 15 mm | 28 mm | 0715 005 216 | 1 |
| 17 mm | 15 mm | 29.2 mm | 0715 005 217 | 1 |
| 18 mm | 18 mm | 30.5 mm | 0715 005 218 | 1 |
| 19 mm | 18 mm | 31.7 mm | 0715 005 219 | 1 |

VDE 3/8 inch TX socket wrench, long

Insulated socket, suitable for working around live parts



| Tip size | Art. no. | P. Qty./unit |
|----------|---------------------|--------------|
| TX10 | 0715 003 510 | 1 |
| TX15 | 0715 003 515 | 1 |
| TX20 | 0715 003 520 | 1 |
| TX25 | 0715 003 525 | 1 |
| TX27 | 0715 003 527 | 1 |
| TX30 | 0715 003 530 | 1 |
| TX40 | 0715 003 540 | 1 |

VDE 3/8 inch TX socket wrench, short

Insulated socket, suitable for working around live parts



| Tip size | Art. no. | P. Qty./unit |
|----------|---------------------|--------------|
| TX10 | 0715 003 410 | 1 |
| TX15 | 0715 003 415 | 1 |
| TX20 | 0715 003 420 | 1 |
| TX25 | 0715 003 425 | 1 |
| TX27 | 0715 003 427 | 1 |
| TX30 | 0715 003 430 | 1 |
| TX40 | 0715 003 440 | 1 |

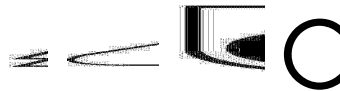
3/8 inch VDE torque wrench protective insulation

3/8 inch torque wrench with square mount, insulated up to 1,000 V

- Trigger accuracy of $\pm 4\%$ tolerance from the set scale value
- Right/left triggering with interchangeable square drive
- Compact design for work in confined spaces



Length: 305 mm
Art. no. 0715 003 05
 P. Qty./unit 1



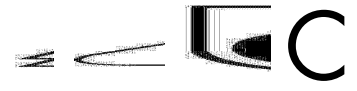
1/2 inch VDE torque wrench protective insulation

1/2 inch torque wrench with square mount, insulated up to 1,000 V

- Trigger accuracy of $\pm 4\%$ tolerance from the set scale value
- Right/left triggering with interchangeable square drive
- Compact design for work in confined spaces



Length: 420 mm
Art. no. 0715 005 05
 P. Qty./unit 1



AKADEMIE WÜRTH

LEVEL
1S/1E

QUALIFIED PERSON FOR WORK ON LIVE HIGH-VOLTAGE SYSTEMS

- Safe operation of electric vehicles and related equipment
- Execution of general tasks that do not require de-energizing the high-voltage (HV) system

LEVEL
2S/2E*

QUALIFIED PERSON FOR WORK ON HIGH-VOLTAGE SYSTEMS IN A DE-ENERGIZED STATE

- Electrotechnical maintenance work on the HV system in a de-energized state
- Replacement of HV components

> Attending courses 1S and 3S is not a prerequisite for participating in course 2S.

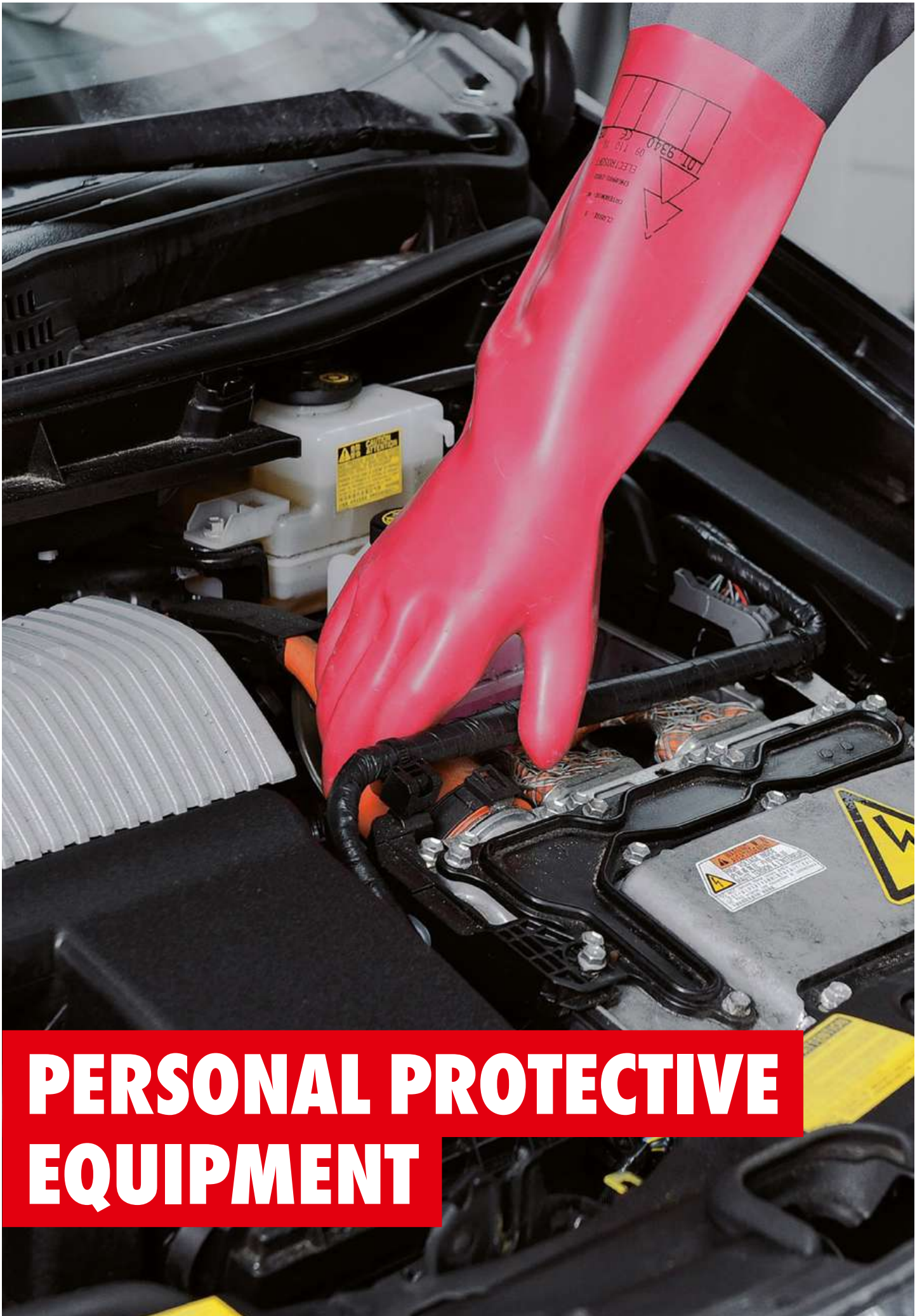
LEVEL
3S/3E*

QUALIFIED PERSON FOR WORK ON LIVE HIGH-VOLTAGE SYSTEMS

- Troubleshooting and electrical work on live HV components

> Attendance of Course 2S is a prerequisite for participation in Course 3S.
 > Attendance of Course 1S is not a prerequisite for participation in Course 3S.

*Inhouse



PERSONAL PROTECTIVE EQUIPMENT

Electrician's helmet SH-E 2000-S

Comfortable electrician's hard hat with internal dial adjustment



Colour: White
Art. no. 0899 200 236
 P. Qty./unit 1

Electrician's visor SLB 1 for electrician's helmet SH-E 2000-S

Visor for protection against arcing Class 1 to 4 kA



Colour: Clear, Black
Art. no. 0899 200 238
 P. Qty./unit 1

Electrician's visor SLB 2 for electrician's helmet SH-E 2000-S

Visor for protection against arcing Class 2 to 7 kA



Colour: Clear, Black
Art. no. 0899 200 239
 P. Qty./unit 1

W-100 welding glove

Robust welding glove for universal use; made from full-grain cowhide



Size: 10
 Length: 35 cm
Art. no. 5350 050 010
 P. Qty./unit 1

Welding glove W-130

Touch-sensitive welding gloves for work with excellent touch feel



| Size | Length | Art. no. | P. Qty./unit |
|------|--------|---------------------|--------------|
| 8 | 30 cm | 5350 050 308 | 1 |
| 9 | 31 cm | 5350 050 309 | 1 |
| 10 | 32 cm | 5350 050 310 | 1 |
| 11 | 33 cm | 5350 050 311 | 1 |

Voltage protective glove for working voltages up to 1,000 V/AC



| Size | Art. no. | P. Qty./unit |
|------|---------------------|--------------|
| 9 | 0899 400 936 | 1 |
| 10 | 0899 400 937 | 1 |
| 11 | 0899 400 938 | 1 |

Cotton jersey glove

Fine cotton glove for light assembly work or as an underglove



| Size | Art. no. | P. Qty./unit |
|------|--------------------|--------------|
| 8 | 0899 400 08 | 12 |
| 10 | 0899 400 10 | 12 |
| 12 | 0899 400 12 | 12 |

Multinorm jacket

The functional and anti-static jacket offers maximum protection and comfort.

- Flame-retardant, anti-static, concealed zip
- 2 front pockets, 2 breast pockets
- Reflective inserts
- Adjustable cuffs
- EN 1149-5, EN 13034, IEC 61482-2 Class 1, EN ISO 11611 Class 2, EN ISO 11612

| Colour | Art. no. | P. Qty./unit |
|------------------|--------------------|--------------|
| Grey, Black | M001 098... | 1 |
| Navy blue, Black | M001 099... | |



COMFORT FIT



Multi-standard trousers

Anti-static trousers that offer maximum protection against heat and flame.

- Flame retardant, anti-static, concealed zip
- 2 front pockets, back pocket with flap, large thigh pocket, ruler pocket
- Reflective piping
- Reinforced knees, elasticated cuffs, double seams
- EN 1149-5, EN 13034, IEC 61482-2 class 1, EN ISO 11611 class 2, EN ISO 11612

| Colour | Art. no. | P. Qty./unit |
|------------------|--------------------|--------------|
| Grey, Black | M003 094... | 1 |
| Navy blue, Black | M003 095... | |



Stretch X Electric SB P E FO WRU safety shoe

Innovative safety shoes with stretch inserts in the flexible section. Ideal for activities in a kneeling position. The dielectric outer sole provides insulation and is certified in accordance with the CSA Z195-14:2014 standard. These safety shoes are not recommended for use in high-voltage areas.

- Suede with textile inserts, CORDURA stretch inserts, textile lining, abrasion-resistant microfibre heel lining
- Fibreglass toe cap, textile penetration-resistant midsole
- Insulating PU outer sole SRC, width 11

| Colour | Art. no. | P. Qty./unit |
|--------|--------------------|--------------|
| Grey | M414 011... | 1 |



CORDURA



| | |
|-----------------------|---|
| Shirts/Jackets | XS = 010, S = 000, M = 001, L = 002, XL = 003, XXL = 004, 3XL = 005, 4XL = 006, 5XL = 007, 6XL = 008 |
| Trousers | 24 = 401, 25 = 403, 26 = 405, 27 = 407, 28 = 409, 29 = 411, 30 = 413, 40 = 417, 42 = 419, 44 = 321, 46 = 423, 48 = 425, 50 = 427, 52 = 429, 54 = 431, 56 = 433, 58 = 435, 60 = 439, 62 = 443, 64 = 447, 66 = 451, 90 = 457, 94 = 459, 98 = 461, 102 = 463, 106 = 465, 110 = 467, 114 = 469, 118 = 471 |
| Shoes | 35 = 035, 36 = 036, 37 = 037, 38 = 038, 39 = 039, 40 = 040, 41 = 041, 42 = 042, 43 = 043, 44 = 044, 45 = 045, 46 = 046, 47 = 047, 48 = 048 |

Defibrillator AED Plus®

Semi-automatic external defibrillator ideal for first aiders

- The AED Plus® provides real-time CPR support to guide the first aider step by step through resuscitation and facilitates safe chest compressions, which has been shown to significantly increase the chances of patient survival.
- Real-time audio and visual feedback on the depth and rate of chest compressions being delivered to help the first aider administer high-quality CPR and therefore increase the chances of the patient surviving cardiac arrest.



Width: 24.1 cm
Height: 13.3 cm
Depth: 29.2 cm

Art. no. 0993 900 100

P. Qty./unit 1

Bag for defibrillator

For safe transport of the defibrillator



Width: 22 cm
Length: 24.5 cm
Height: 12 cm

Art. no. 0993 900 102

P. Qty./unit -

Wall cabinet for defibrillators

Cabinet suitable for many defibrillators



Width: 400 mm
Length: 220 mm
Height: 400 mm

Art. no. 0993 900 103

P. Qty./unit 1

Rescue hook

Hook to extract the victim of an electric arc



Art. no. 0899 520 901

P. Qty./unit 1

CHARGING TECHNOLOGY



Juice Booster 2 mobile charging station

Flexible, mobile charging station with up to 22 kW charging capacity

- Suitable for both standard domestic power and high-current sockets. Depending on the power connection and vehicle, fully automatic setting of the maximum charging capacity
- Completely watertight, impact-resistant and dustproof (IP 67), can be driven over with a wheel load of up to three tonnes
- Built-in FI-AEV circuit breaker, including temperature monitoring at the power connection
- Scope of delivery
 - Juice Booster II including transport case with self-adhesive hook-and-loop strip for attachment to the luggage compartment carpet
 - Adapter for 230 V connection//1 x 13 A//max. 2.9 kW
 - Adapter for CEE 32 connection//3 x 32 A//max. 22 kW



Art. no. 9501 007 664

P. Qty./unit 1

ACCESSORIES

Adapter for CEE16 plug



Art. no. 9501 007 902

P. Qty./unit 1

Adapter for type 2 plug



Art. no. 9501 007 907

P. Qty./unit 1

Extension cable 5 m



Art. no. 9501 007 910

P. Qty./unit 1

Mobile wall bracket Juice Booster 2 charging station



Art. no. 9501 007 912

P. Qty./unit 1

Mobile charging station mode 2 type 2 UNI

Mobile and flexible charging of electric and hybrid vehicles with type 2 plug for at home and on the go

- User-friendly thanks to automatic detection of the maximum charging current via coding in the mains cable
- High flexibility due to the innovative plugin connector technology that allows different adapters to be used to draw current
- High security - a padlock can be used to secure the charging station to the wall bracket to protect against theft



Width: 320 mm

Art. no. 9501 650 100

P. Qty./unit 1

ACCESSORIES

Adapter for mobile charging station mode 2 type 2 UNI

Adapter/power cable for mobile and flexible charging of electric and hybrid vehicles with type 2 plug for at home and on the go

- High degree of flexibility
- Innovative plug-in connector system that allows different adapters to be used to draw current



| Colour | Charging power | Charging current | Input | Art. no. | P. Qty./unit |
|--------|----------------|------------------|---------------------|--------------|--------------|
| Black | 2.2 kW | 10 A | TYPE EF, 10 A | 9501 650 110 | 1 |
| Blue | 3.7 kW | 16 A | CEE 16 A, 1-phasing | 9501 650 116 | 1 |
| Red | 11 kW | 16 A | CEE 16 A, 3-phase | 9501 650 316 | 1 |
| Red | 22 kW | 32 A | CEE 32 A, 3-phasing | 9501 650 332 | 1 |

Wall bracket for UNI mode 2 type 2 mobile charging stations



Width: 105 mm

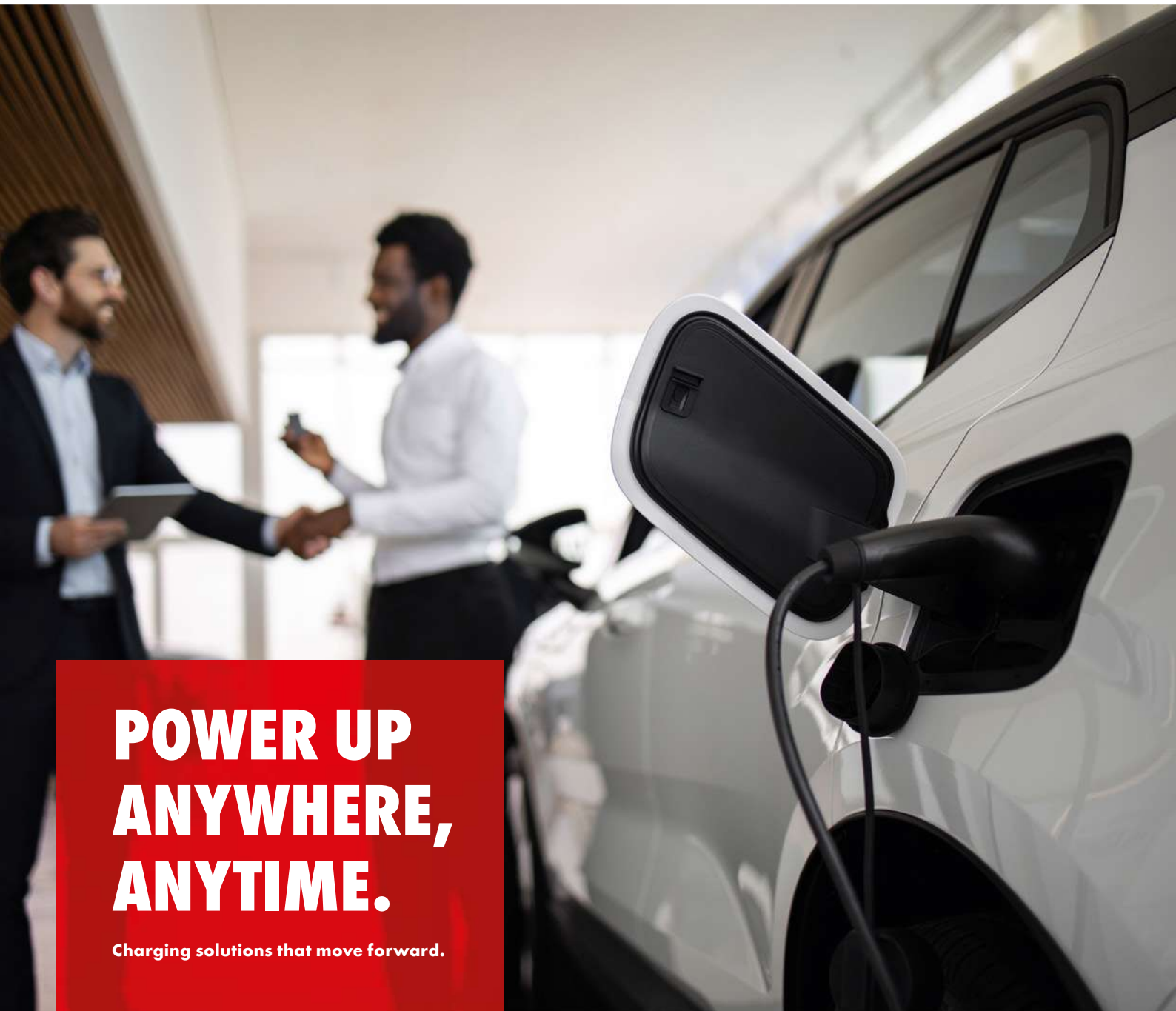
Height: 490 mm

Depth: 95 mm

Colour: White, Orange

Art. no. 9501 650 105

P. Qty./unit 1



**POWER UP
ANYWHERE,
ANYTIME.**

Charging solutions that move forward.

Charging cable mode 2 T2/grounding contact plug

For the emergency charging or permanent charging of electric or hybrid vehicles with type 2 interface

| | |
|---------------------|----------------|
| Nominal voltage | 230 V |
| Cable length | 6 m |
| Plug vehicle side | Type-2 |
| IP protection class | IP 67 |
| Socket type | Type E, Type F |

| Charging power | Nominal current | Art. no. | P. Qty./unit |
|----------------|-----------------|---------------------|--------------|
| 2.3 kW | 10 A | 0510 650 210 | 1 |
| 3.6 kW | 16 A | 0510 650 216 | 1 |



Charging cable mode 3 T2/T2

For charging electric or hybrid vehicles with type 2 interface

- No unwanted slipping due to rain, ice and greasy hands thanks to rubber grips
- Soft and flexible cable even in cold weather, lightweight and particularly ergonomic connector, loop with hook-and-loop fastener for bundling and suspending cable
- No scratching of the vehicle's paintwork thanks to the cover cap with adjustable retaining strap, visual signalling effect through red cable



| | |
|-----------------------------------|--------------------------|
| Plug charging station side | Type-2 |
| Plug vehicle side | Type-2 |
| IP protection class | IP 44 |
| Other standard | IEC 62196-1, IEC 62196-2 |

| Nominal current | Charging power | Cable length | Number of phases | Cable diameter | Product weight (per item) | Art. no. | P. Qty./unit |
|-----------------|----------------|--------------|------------------|----------------|---------------------------|---------------------|--------------|
| 20 A | 4.6 kW | 4 m | 1 PCS | 10.2 mm | 1.37 kg | 0510 650 224 | 1 |
| 20 A | 4.6 kW | 7.5 m | 1 PCS | 10.2 mm | 1.91 kg | 0510 650 227 | 1 |
| 20 A | 13.8 kW | 5 m | 3 PCS | 13 mm | 2.1 kg | 0510 650 215 | 1 |
| 20 A | 13.8 kW | 7.5 m | 3 PCS | 13 mm | 2.6 kg | 0510 650 217 | 1 |
| 20 A | 13.8 kW | 10 m | 3 PCS | 13 mm | 3.2 kg | 0510 650 211 | 1 |
| 32 A | 22 kW | 4 m | 3 PCS | 14.2 mm | 2.58 kg | 0510 650 234 | 1 |
| 32 A | 22 kW | 5 m | 3 PCS | 14.2 mm | 3070 g | 0510 650 235 | 1 |
| 32 A | 22 kW | 7.5 m | 3 PCS | 14.2 mm | 4160 g | 0510 650 237 | 1 |

Cable reel for electric vehicle charging cables

Automatic rewind of the charging cable



Length: 353 mm
Width: 353 mm
Height: 178 mm

Art. no. 0510 650 100
P. Qty./unit 1

Wall bracket for charging cables and other lines and hoses

For the practical and safe storage of mode 3 type 2 charging cables



Length: 150 mm
Width: 110 mm
Height: 91 mm

Art. no. 0510 650 130
P. Qty./unit 1

Charging cable with winder

With 8.5 m cable on the vehicle side and 1.5 m cable on the charging station side, for vehicles with a type-2 charging interface



Art. no. 0510 650 800
P. Qty./unit 1

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DIAGNOSIS AND AIR CONDITIONING SERVICE



Diagnostics interface W.EASY CONNECT

Easy and safe access to modern diagnostic solutions on commercial vehicles



Length x width x height:
135 x 89 x 31 mm

Art. no. WW02 000 025

Getac S410 workshop laptop for W.EASY diagnostics

Input device specially adapted to W.EASY diagnostics



Length x width x height:

350 x 293 x 38,5 mm

Colour: Anthracite, Black

Art. no. WW05 240 024

Air Conditioning service unit, commercial vehicles Coolius® C40

Fully automatic system for easy and reliable maintenance of large-volume CO₂ air-conditioning systems

NEW



Length x width x height:
920 x 590 x 1190 mm

Art. no. W050 140 030



With its innovative and modular multi-brand solutions, WABCO WÜRTH makes diagnostics for commercial vehicles simple, transparent and efficient. Diagnostic systems get your business moving. Find out more at www.wabcowuerth.com



Laptop L40 Generation 45

This robust and powerful laptop is a mobile companion for demanding daily workshop tasks.



Length: 28 cm
Width: 35 cm
Height: 3.5 cm

Art. no. W037 400 101

Laptop 2-in-1 C15 Generation 47

DIALOOQ C15 Generation 47. Designed for service-focused vehicle diagnostics and troubleshooting in combination with the LOOQER diagnostics interface.



Length: 204.88 mm
Width: 300.88 mm
Height: 21.4 mm

Art. no. W037 150 401

Diagnostics interface LOOQER

LOOQER - a direct connection and support for troubleshooting.

Wireless diagnostics interface with Wi-Fi and Bluetooth technology and integrated ring-shaped LED status display. The hook clip and suction cup ensure ergonomic working. The flight recorder enables mobile data recording - without the need for a passenger.



Width: 51 mm
Length: 127 mm
Height: 28 mm

Art. no. W072 003 008

Diagnostics interface Snooper+

Snooper+ wireless diagnostics interface with Bluetooth technology. The integrated LED status indicator and the mounting bracket ensure ergonomic working. The flight recorder enables mobile data recording without the need for a passenger.



Width: 85 mm
Length: 180 mm
Height: 30 mm

Art. no. W072 700 100

Vehicle Air Conditioning service unit COOLIUS® C20

Fully automatic and compact air-conditioning service unit for servicing vehicle air-conditioning units and small-volume thermal management systems with CO₂ refrigerant.



Width: 530 mm
Height: 920 mm
Depth: 530 mm

Art. no. W050 122 000

WOW! Würth Online World GmbH is your expert for multi-brand car diagnostics. Further information on vehicle diagnostics and software modules can be found at www.wow-portal.com/diagnose.

WORKSHOP EQUIPMENT



Mobile battery platform, heavy duty design for loads up to 1.5 t with a particularly high level of operating comfort

Mobile platform with lifting platform for holding heavy electric vehicle batteries as well as a universal platform for large and heavy vehicle components such as engines, gears or axles



Width: 805 mm
 Height: 1880 mm
 Length: 2155 mm
Art. no. 1952 006 055
 P. Qty./unit 1

Mobile battery platform, basic design for loads up to 1 t

Mobile platform with lifting platform for holding heavy electric vehicle batteries as well as a universal platform for large and heavy vehicle components such as engines, gears and axles



Width: 739 mm
 Height: 1830 mm
 Length: 1797 mm
Art. no. 1952 006 056
 P. Qty./unit 1

Protective roller blind

Useful safety accessories for mobile battery platform, heavy-duty design

Art. no. 1952 006 057
 P. Qty./unit 1



Rubber block set 12 pieces

For mobile battery platform, basic and heavy-duty design



Height: 50 mm
Art. no. 1952 006 058
 P. Qty./unit 1

Lifting frame for HV batteries with chains up to 1.5 t

Indispensable when using workshop hoists for safe load handling

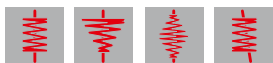


Height: 180 mm
Art. no. 1952 007 015
 P. Qty./unit 1

"Maximus 3000" pneumatic spring compressor, extra heavy-duty design for vehicles ranging from passenger cars to transporters universal, 6 pieces

Stationary spring compressor for coil springs on cars and vans.

- Comprehensive safety concept includes pneumatic cylinder, foot pedal, safety cage, shock absorber drop guard and pedestal to ensure maximum safety for the user.
- The station includes one small clamping jaw, one large clamping jaw and a vice jaw. This scope of delivery allows compression of over 90% of all coil springs on vehicles. Other optional special accessories deliverable.
- Two clamping jaw mounts on the basic unit permit an opening width of up to max. 486 mm. Particularly important for many current models with extra-long vehicle springs.
- Mirror for viewing from above makes the piston rod easier to position during installation.
- Protective cage with high-strength polycarbonate panels ensures a high level of protection in the event of incorrect operation or accidental splintering of the material.
- The two infinitely adjustable upper gripper jaws can be set to the required coil diameter. They can be moved upwards and downwards, tilted and fixed in place for maximum adaptability to any type of spring.
- The practical absorber drop guard keeps the absorber in position during installation.
- The handles above the unit and the wheels make the unit easy to manoeuvre.
- CE approval for the unit documents the unit's conformity with 2006/42/EC (machinery directive)
- Scope of delivery
 - Basic unit, 3000 kg/30,000 N
 - Small clamping jaw, diameter 78 - 130 mm
 - Large clamping jaw, diameter 105 - 185 mm
 - Working mirror with magnetic base, flexible
 - Transport module with wheels
 - Vice clamping jaw for absorber tube, diameter 40 - 60 mm



Length: 1730 mm

Art. no. 1952 003 630

P. Qty./unit 1



See the "Maximus 3000" in action:



Fibreglass/silicone fire blanket

Fire blanket for efficient fire containment, including lithium-ion battery fires

- For environment- and resource-friendly firefighting
- Long-term heat resistance up to 750 °C, and short-term resistance up to 1,300 °C
- Certified for use in lithium-ion battery fires
- Can be used several times depending on the fire load and damage such as cuts or holes
- Safe blanketing using 60 cm long handles
- In a practical carrying bag for easy transport to place of use
- Advantages:
 - High cut and explosion protection due to special coating
 - High temperature insulation due to special coating
 - Materials used have a low electrical conductivity
 - Special fibres have a high resistance to alkalis and acids
 - Minimisation of smoke development due to the high smothering effect
 - Proven high temperature resistance

| | |
|--------------------|-------------|
| Material | Fibre glass |
| EN standard | 13501 |
| Standards | EN 13501 |

| Length | Width | Art. no. | P. Qty./unit |
|--------|-------|---------------------|--------------|
| 5.8 m | 5 m | 9501 017 328 | 1 |
| 8 m | 6 m | 9501 010 701 | 1 |
| 10 m | 8 m | 9501 017 329 | 1 |



SILICA ULTIMATE fire blanket

Fire blanket for preventive and defensive fire protection

- Made of special SiO₂ high-temperature fabric
- Special mineral coating on both sides
- Flexible, anti-slip, red and blue loops and aluminised fabric corner reinforcement
- Protected stitching and steel yarn processing
- Open-pore fabric
- Suitable for sprinkler and extinguishing water
- Includes a red protective case with 2 wheels and 2 handles as well as a telescopic handle for storage and transport
- Scope of delivery:
 - 1x fire blanket
 - 1x protective case

Tested according to test principle DIN Spec 91489

| | |
|--------------------|----------|
| EN standard | 13501 |
| Standards | EN 13501 |

| Length | Width | Art. no. | P. Qty./unit |
|--------|-------|---------------------|--------------|
| 6 m | 5 m | 9501 017 315 | 1 |
| 8 m | 6 m | 9501 017 316 | 1 |
| 9 m | 7.5 m | 9501 017 317 | 1 |





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