

Safety tools EN 60900
Protection Equipment



The foundations of the HAUPA Group were laid in 1961 in Remscheid, the centre of the German tool manufacturing industry.



Hans-Udo Paas founded HAUPA with the aim of providing high quality tools for the requirements of the electrical trade. The effective combination of a respect for tradition and the use of efficient cutting edge methods were and are the basis for the consistent, stable expansion strategy of our enterprises.

Subsidiaries and general importers throughout the whole of Europe ensure a wide-ranging network of distribution partners who are close to our customers and can guarantee a constant readiness to deliver.



Innovative strength and functional competence in the cable and high voltage product lines as well as the experience of our team combined with the use of only the highest quality materials guarantee mature high quality products

... to increase your productivity

... to make you more competitive

... for your lasting benefit

Corporate philosophy

... Our product range contains no cheap products.

... The high quality of the products is our top priority.

... We carry out continuous quality control in our plants.

... Quality and faithfulness to deadlines are demands that we place upon ourselves while taking our customers' requirements to heart.

... We only employ specialists in the respective areas.

... All our departments regularly exchange information.

... Our declared goal is the continuous growth of our company.

Quality

HAUPA has been certified according to DIN EN ISO 9002 since 1996.

In order to incorporate a true quality standard the quality management department of HAUPA decided at a very early stage to apply for ISO 9002 certification, which controls and covers the complete internal working and monitoring procedures.

From goods receipt to dispatch – all working processes are carried out according to defined procedures.

All HAUPA employees receive regular training in order to comply with these standards and to encourage them to actively suggest ways of improving the processes. Special, so-called QMB employees analyse modified structures and integrate these into the defined standards. Independent auditors carry out audits at regular intervals to ensure compliance.



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Accu crimping tool

Crimping head 180° swivelling, with fast opening, manual return flow after perfect pressure, in black metal suitcase, 1 charger, 2 accus, carrying belt, manuel two-step-hydraulic, without dies

Art. No. 21 65 00



Electrohydraulic punching tools

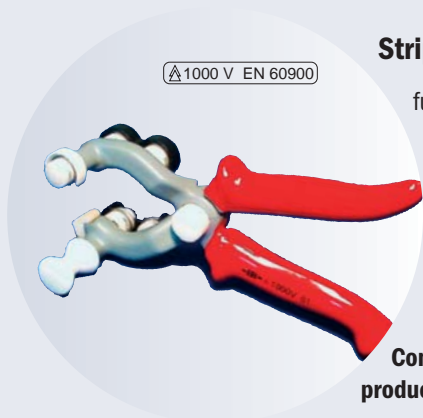
with safety valve to prevent damage, in black metal case, incl. charger, 2 rechargeable batteries, carrying belt

Double edged cable cutter acc. to EN 60900

slight strain due to optimal lever-transmission, edges with precise grind for easy and proper cutting by one hand handling, opening 20 mm, forged of special carbon-steel, for copper and alu-cable, 2-coloured coating-insulation- inside yellow/outside red



Comprehensive informations for this product you find on page 17.



Stripping pliers acc. to EN 60900

fully insulated acc. to VDE EN 60900, for cutting and stripping off cable sheaths of PVC, PE and VPE, limited cutting deep and therefore no damage on the inside conductors, easy handling, 2-coloured coating-insulation- inside yellow/outside red

Comprehensive informations for this product you find on page 15.

Around the cable

Comprehensive informations to our products "Around the cable" enclosing all tools and materials which you need for the processing.

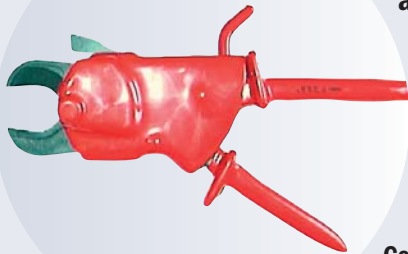


Crimping pliers

Because of their optimum leverage, these professional crimping pliers are easy to use and require little effort. The body of the pliers is made from hardened special steel and the parallel forward feed guarantees durable and precise crimping of Western plugs.

Working under tension

⚠ 1000 V EN 60900



VDE ratchet cable cutter with cover acc. to EN 60900

One-hand cable cutter with ratchet, optimal lever-transmission, encapsulated head, for copper and alu-cable, opening 25 mm, 2-coloured coating-insulation-inside yellow/outside red

Comprehensive informations for this product you find on page 17.

Pliers with 2-component sheath

The second component is made from soft rubber – this means that the pliers sit firmly in the hand and cannot slip. The dropforged body of the pliers is made from special tool steel and chromium-plated in high lustre. The cutting edges are inductively post-hardened and, in combination with the optimum cutting angle guarantee an ideal cutting performance.



Basis program

Comprehensive informations to our products you find in our catalogue "Basis program"

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VDE safety test EN 60900



Cold-heading test

In this test, the toughness of the PVC material is checked by dropping a weight onto the tools which have been cooled down to -25°C . The tools must not show any cracking or other damage after the test.



Testing the adhesive strength of the PVC coating

After pliers have been stored for 168 hours at $+70^{\circ}\text{C}$, the adhesive power of the PVC coating is tested using a pulling force of 500 Nm. The insulation material must stay firmly attached to the basic tool.



Flame resistance test

To exclude any fire risks, only flame-proof PVC material is used.



Pressure test

No puncture must occur, while testing the tool with a voltage of 5,000 V AC when also applying a pressure of 20 Nm at a temperature of $+70^{\circ}\text{C}$ to the tool.



Testing the insulating properties

After storing the tools under water for 24 hours, the tools are tested using 10,000 V AC for three minutes, while simultaneously measuring the discharge current. During this time, no puncture or sparkover must occur.



Voltage test

Each safety tool is individually voltage tested. This means that all tools which bear the relevant mark have been tested at 10,000 V AC and are approved for a voltage of 1,000 V, ensuring 10-fold safety.

Screw heads



Patent ratchet system



The HAUPA - ratchet system has some patented advantages. She distinguishes herself by a particularly ergonomic manipulation and high functional safety. Authoritatively is the perfect locking of the socket wrench dies which extract forces must endure up to 500 N.

An one hand using of the ratchet is reached by an across slidegate valve which is produced from not leading material (polyamide). This is arranged ergonomically so positively that he is simply attainable with the thumb of the grasping hand. Moreover, guarantees this across slidegate valve which is far led in the inside of the ratchet, the trouble-free reaching of the test tension by 10 KV in accordance with German Institute for Standardisation DIN 60900.



Safety of HAUPA-articles.

All HAUPA-articles in the product area " Working under tension " are provided with 2-coloured coating-insulation (where this is technically possible). The multiple insulation layer supports the valid rule VBG4. This demands a test of all tools on externally recognisable damages before beginning of the works. By 2-coloured coating-insulation - the second insulating layer has a yellow contrasting colour - damages become immediately visible.

Security indications

Basic presupposition for works on capital assets standing under tension is tools isolated from safety. Besides, the legal regulations and the following security indications are to be paid attention always:

1. Transport your safety tools so that damages are avoided in the isolation
2. Examine before use whether the isolation is undamaged. Faulty tools must be sorted out.
3. Keep safety tools clean and dry
4. At works about head or at works with piercing pliers goggles should be carried.
5. In the working place where is worked under tension, must be kept to order and neatness, to own safety.
6. Protective clothing and protection equipment should be carried on restrained place relations (e.g., security gloves, covering blankets, protection hoods)
7. Only examined and suitable tools should be applied. It must also be considered that solved or isolated parts do not fall on tension-leading components.

The HAUPA product program

The assortment of HAUPA encloses the product lines:

Around the cable

Working under tension

Basis program

The partial catalogue "Around the cable" encloses all tools and materials which you need for the processing of any kind of cables.

Whether cutting, stripping off or crimping! Here you find everything what you need for it. From the basic equipment up to special tools for the professional application.



The partial catalogue "Working under tension" encloses all 1000 V of isolated safety tools as well as isolating protection equipment in accordance with EN 60900.



The partial catalogue "Basis program" encloses all state sort tools, begun from screwdrivers, pliers, hammer, saws, socket wrenches, drill and fly tools as far as measuring systems and laser systems.



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INFO

Screw driver range, individual tested

Screw driver range according to the new **VDE Norm EN 60900**. All blades are made of high quality chrome vanadium steel, black, red-covered, Polypropylen moulded. This ergonomic moulded 2-components-tacks from PP/TPE material guarantees a high security with normal power transmission. Every screw driver is individually tested and marked according to the new VDE-Norm.

2-components-VDE Electricians` screw drivers

blade of chrome vanadium steel, with 2 components-handle of PP/TPE, insulated



⚠ 1000 V EN 60900



| Art. No. | lob | CW | length | weight | PU |
|----------|-----|------|--------|--------|----|
| 10 19 10 | 75 | 2,5 | 155 | 25 | 1 |
| 10 19 12 | 100 | 3,0 | 185 | 30 | 1 |
| 10 19 14 | 100 | 3,5 | 185 | 30 | 1 |
| 10 19 16 | 100 | 4,0 | 195 | 50 | 1 |
| 10 19 18 | 125 | 5,5 | 230 | 75 | 1 |
| 10 19 20 | 150 | 6,5 | 255 | 100 | 1 |
| 10 19 22 | 175 | 8,0 | 295 | 180 | 1 |
| 10 19 24 | 200 | 10,0 | 320 | 270 | 1 |

2-components-VDE cross slotted screw drivers Phillips

blade of chrome vanadium steel, with 2 components-handle of PP/TPE, insulated



⚠ 1000 V EN 60900



| Art. No. | size | screws | lob | length | weight | PU |
|----------|------|-----------|-----|--------|--------|----|
| 10 19 40 | 0 | 1,6 - 2 | 60 | 145 | 55 | 1 |
| 10 19 42 | 1 | 2 - 3 | 80 | 175 | 65 | 1 |
| 10 19 44 | 2 | 3 - 5,2 | 100 | 205 | 105 | 1 |
| 10 19 46 | 3 | 5,2 - 7,2 | 150 | 270 | 165 | 1 |

2-components-VDE cross slotted screw drivers Pozidriv

blade of chrome vanadium steel, with 2 components-handle of PP/TPE, insulated



⚠ 1000 V EN 60900



| Art. No. | size | screws | lob | tot. length | weight | PU |
|----------|------|-----------|-----|-------------|--------|----|
| 10 19 50 | 0 | 1,6 - 2 | 60 | 1345 | 55 | 1 |
| 10 19 52 | 1 | 2 - 3 | 80 | 175 | 65 | 1 |
| 10 19 54 | 2 | 3 - 5,2 | 100 | 205 | 105 | 1 |
| 10 19 56 | 3 | 5,2 - 7,2 | 150 | 270 | 165 | 1 |

2-components-VDE screw drivers Tx

with security pin, blade of chrome vanadium steel, with 2 components-handle of PP/TPE, insulated



⚠ 1000 V EN 60900



| Art. No. | size | screws | lob | tot. length | weight | PU |
|----------|-------|-----------|-----|-------------|--------|----|
| 10 18 50 | TX 08 | 100 x 3 | | 185 | 70 | 1 |
| 10 18 52 | TX 09 | 100 x 3 | | 185 | 70 | 1 |
| 10 18 54 | TX 10 | 100 x 3 | | 195 | 75 | 1 |
| 10 18 56 | TX 15 | 100 x 3,5 | | 195 | 75 | 1 |
| 10 18 58 | TX 20 | 100 x 4 | | 195 | 75 | 1 |
| 10 18 60 | TX 25 | 125 x 4,5 | | 220 | 85 | 1 |
| 10 18 62 | TX 27 | 125 x 5,5 | | 230 | 90 | 1 |
| 10 18 64 | TX 30 | 150 x 6,5 | | 255 | 100 | 1 |
| 10 18 66 | TX 40 | 175 x 8 | | 295 | 120 | 1 |

2-components-VDE screw drivers

blade of chrome vanadium steel, with 2 components-handle of PP/TPE, insulated, 6 pieces

Content: VDE Electricians` screw driver 2,5 x 75 mm, 4 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm, VDE cross slotted screw drivers Phillips or Pozidriv size 1 and 2



⚠ 1000 V EN 60900



| Art. No. | set | weight | PU |
|------------|-------------------|--------|----|
| 10 19 99 | Phillips 6 pieces | 550 | 1 |
| 10 19 99PZ | Pozidriv 6 pieces | 550 | 1 |

VDE Electricians' screw driver

of chrome vanadium steel, with red PPN-handle, insulated



⚠ 1000 V EN 60900



| Art. No. | lob | screws | tot. length | weight | PU |
|----------|-----|--------|-------------|--------|----|
| 10 09 10 | 75 | 2,5 | 155 | 25 | 1 |
| 10 09 12 | 100 | 3,0 | 180 | 30 | 1 |
| 10 09 14 | 100 | 3,5 | 180 | 30 | 1 |
| 10 09 16 | 100 | 4,0 | 190 | 50 | 1 |
| 10 09 18 | 125 | 5,5 | 225 | 75 | 1 |
| 10 09 20 | 150 | 6,5 | 250 | 100 | 1 |
| 10 09 22 | 175 | 8,0 | 285 | 180 | 1 |
| 10 09 24 | 200 | 10,0 | 325 | 270 | 1 |

VDE cross slotted screw drivers Phillips

of chrome vanadium steel, with red PPN-handle, insulated



⚠ 1000 V EN 60900



| Art. No. | size | screws | lob | tot. length | weight | PU |
|----------|------|-----------|-----|-------------|--------|----|
| 10 09 40 | 0 | 1,6 - 2 | 60 | 130 | 55 | 1 |
| 10 09 42 | 1 | 2 - 3 | 80 | 170 | 65 | 1 |
| 10 09 44 | 2 | 3 - 5,2 | 100 | 200 | 105 | 1 |
| 10 09 46 | 3 | 5,2 - 7,2 | 150 | 260 | 165 | 1 |

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

Screw drivers Pozidriv



of chrome vanadium steel, with red PPN-handle, insulated



⚠ 1000 V EN 60900



| Art. No. | size | screws | lob | tot. length | weight | PU |
|----------|------|-----------|-----|-------------|--------|----|
| 10 09 50 | 0 | 1,6 - 2 | 60 | 130 | 55 | 1 |
| 10 09 52 | 1 | 2 - 3 | 80 | 170 | 65 | 1 |
| 10 09 54 | 2 | 3 - 5,2 | 100 | 200 | 105 | 1 |
| 10 09 56 | 3 | 5,2 - 7,2 | 150 | 260 | 165 | 1 |

Screw drivers Tx



for torx screws with security pin, blade of chrome vanadium steel, insulated



⚠ 1000 V EN 60900



| Art. No. | size | lob | weight | PU |
|----------|-------|-----------|--------|----|
| 10 08 50 | TX 08 | 100 x 3 | 75 | 1 |
| 10 08 52 | TX 09 | 100 x 3 | 75 | 1 |
| 10 08 54 | TX 10 | 100 x 3 | 75 | 1 |
| 10 08 56 | TX 15 | 100 x 3,5 | 80 | 1 |
| 10 08 58 | TX 20 | 100 x 4 | 80 | 1 |
| 10 08 60 | TX 25 | 125 x 4,5 | 90 | 1 |
| 10 08 62 | TX 27 | 125 x 5,5 | 90 | 1 |
| 10 08 64 | TX 30 | 150 x 6,5 | 100 | 1 |
| 10 08 66 | TX 40 | 175 x 8 | 120 | 1 |

VDE screw drivers



of chrome vanadium steel, with red PPN-handle, 5 pieces, VDE Electricians' screw driver 2,5 x 75 mm, 4 x 100 mm, 6,5 x 150 mm, VDE cross slotted screw drivers Phillips size 1 and 2



⚠ 1000 V EN 60900



| Art. No. | set | weight | PU |
|----------|----------|--------|----|
| 10 09 98 | 5 pieces | 500 | 1 |

VDE screw drivers



of chrome vanadium steel, with red PPN-handle, 5 pieces, VDE Electricians' screw driver 2,5 x 75 mm, 4 x 100 mm, 6,5 x 150 mm, VDE cross slotted screw drivers Pozidriv size 1 and 2



⚠ 1000 V EN 60900



| Art. No. | set | weight | PU |
|-------------|----------|--------|----|
| 10 09 98/PZ | 5 pieces | 500 | 1 |

VDE screw drivers



of chrome vanadium steel, with red PPN-handle, 7 pieces, VDE Electricians' screw driver 2,5 x 75 mm, VDE Electricians' screw driver 3 x 100 mm, 4 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm, VDE cross slotted screw drivers Phillips size 1 and 2



⚠ 1000 V EN 60900



| Art. No. | set | weight | PU |
|----------|----------|--------|----|
| 10 09 99 | 7 pieces | 500 | 1 |

VDE screw drivers



of chrome vanadium steel, with red PPN-handle, 7 pieces, VDE Electricians' screw driver 2,5 x 75 mm, VDE Electricians' screw driver 3 x 100 mm, 4 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm, VDE cross slotted screw drivers Pozidriv size 1 and 2



⚠ 1000 V EN 60900



| Art. No. | set | weight | PU |
|-------------|----------|--------|----|
| 10 09 99/PZ | 7 pieces | 500 | 1 |

VDE Retaining screw drivers



of chrome vanadium steel, nickel-plated, with black plastic handle and retaining device



| Art. No. | lob | CW | tot. length | weight | PU |
|----------|-----|----|-------------|--------|----|
| 10 10 52 | 100 | 3 | 190 | 40 | 1 |
| 10 10 54 | 125 | 4 | 225 | 70 | 1 |
| 10 10 56 | 150 | 5 | 260 | 105 | 1 |

VDE Retaining screw drivers



of chrome vanadium steel, nickel-plated, with black plastic handle and retaining device



| Art. No. | size | screws M | lob | tot. length | weight | PU |
|----------|------|----------|-----|-------------|--------|----|
| 10 07 35 | 0 | - 2 | 125 | 225 | 70 | 1 |
| 10 07 37 | 1 | 2 - 3 | 150 | 260 | 105 | 1 |

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2-components-VDE socket wrenches

chrome vanadium steel, insulated, for hexagon nuts, with 2 components-handle of PP/TPE



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| Art. No. | size | screw M | lob | tot. length | weight | PU |
|----------|------|---------|-----|-------------|--------|----|
| 10 25 20 | 4 | 2 | 125 | 220 | 76 | 6 |
| 10 25 22 | 5 | 2,6 | 125 | 220 | 77 | 6 |
| 10 25 24 | 5,5 | 3 | 125 | 220 | 76 | 6 |
| 10 25 26 | 6 | 3,5 | 125 | 220 | 79 | 6 |
| 10 25 28 | 7 | 4 | 125 | 230 | 112 | 6 |
| 10 25 30 | 8 | 5 | 125 | 230 | 144 | 6 |
| 10 25 32 | 9 | - | 125 | 230 | 116 | 6 |
| 10 25 34 | 10 | 6 | 125 | 230 | 118 | 6 |
| 10 25 36 | 11 | 7 | 125 | 245 | 175 | 6 |
| 10 25 38 | 12 | - | 125 | 245 | 178 | 6 |
| 10 25 40 | 13 | 8 | 125 | 245 | 188 | 6 |
| 10 25 44 | 17 | 10 | 125 | 245 | 237 | 6 |

2-components-VDE socket wrenches set

chrome vanadium steel, insulated acc. EN 60900, for hexagon nuts, with 2 components-handle of PP/TPE
Contents: 1 piece each 5 - 5,5 - 7 - 8 - 10 - 11 - 13 mm



⚠ 1000 V EN 60900



| Art. No. | set | weight | PU |
|----------|----------|--------|----|
| 10 25 12 | 7 pieces | 910 | 1 |

VDE socket wrenches

chrome vanadium steel, insulated, for hexagon nuts, with red PPN-handle



⚠ 1000 V EN 60900



| Art. No. | size | screw M | lob | tot. length | weight | PU |
|----------|------|---------|-----|-------------|--------|----|
| 10 05 20 | 4 | 2 | 125 | 220 | 76 | 6 |
| 10 05 22 | 5 | 2,6 | 125 | 220 | 77 | 6 |
| 10 05 24 | 5,5 | 3 | 125 | 220 | 76 | 6 |
| 10 05 26 | 6 | 3,5 | 125 | 220 | 79 | 6 |
| 10 05 28 | 7 | 4 | 125 | 230 | 112 | 6 |
| 10 05 30 | 8 | 5 | 125 | 230 | 144 | 6 |
| 10 05 32 | 9 | - | 125 | 230 | 116 | 6 |
| 10 05 34 | 10 | 6 | 125 | 230 | 118 | 6 |
| 10 05 36 | 11 | 7 | 125 | 240 | 175 | 6 |
| 10 05 38 | 12 | - | 125 | 240 | 178 | 6 |
| 10 05 40 | 13 | 8 | 125 | 240 | 188 | 6 |
| 10 05 44 | 17 | 10 | 125 | 250 | 237 | 6 |

VDE socket wrenches set

chrome vanadium steel, insulated acc. EN 60900, for hexagon nuts, with red PPN-heavy handle, Contents: 1 peace each 5 - 5,5 - 7 - 8 - 10 - 11 - 13 mm



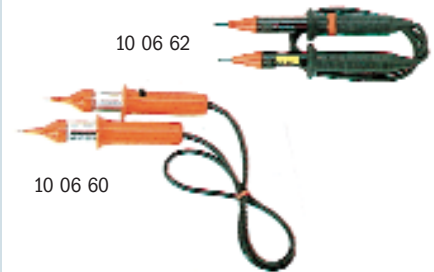
⚠ 1000 V EN 60900



| Art. No. | set | weight | PU |
|----------|----------|--------|----|
| 10 05 12 | 7 pieces | 910 | 1 |

Voltage testers VDE/GS

VDE DIN 0680, direct reading each for DC and AC. Press switch to cut in the meter works. Glow lamp for determination of polarity and phase. Capacity and voltages are suppressed by the meter works and will not be indicated.



| Art. No. | test | Marke | weight | PU |
|----------|-----------|--------|--------|----|
| 10 06 60 | 110 - 750 | Duspol | 340 | 1 |
| 10 06 62 | 110 - 750 | WIRBE | 340 | 1 |

Voltage testers Profipol

Measuring range: 12 - 400 volt AC, 12 - 400 volt DC, 5-step LED-scale, housing fully insulated, dust- and waterproofed according to IP 65



| Art. No. | test | weight | PU |
|----------|--------------------------|--------|----|
| 10 06 63 | 12 - 400 ~ 12 - 500 - | 185 | 1 |

Voltage testers Combipol

Combipol indicates DC and AC voltages in the range 12 - 690 v. Visual voltage indications is made via LEDs. Combipol has a funktion that enables continuity and semiconductor testing up to 1 MΩ. This dust and waterproof device conforms to protection standard IP 65 and approved for indoor and outdoor use.



| Art. No. | test | weight | PU |
|----------|----------|--------|----|
| 10 06 75 | 12 - 690 | 183 | 1 |

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

Voltage testers VDE/GS



5 mm surrounding hand-protection, clip of insulating material, fixed installed scale with dark background



| Art. No. | test | tot. length | weight | PU |
|----------|-----------|-------------|--------|----|
| 10 07 00 | 220 - 250 | 190 | 25 | 1 |

Voltage testers Duspol® S

Voltage tester with phase-sequence and phase indication, indicates DC and AC voltages in the range 12-750 V. This dust and waterproof device conforms to protection standard IP 65 and approved for indoor and outdoor use.



| Art. No. | weight | PU |
|----------|--------|----|
| 10 06 68 | 190 | 1 |

Circuit tester „Dutest-Control”

indicates the continuity of dead electrical wiring up to a measuring resistor valve of 90 kΩ, indicates low-valued (0-800Ω) or high-valued (90 kΩ), additional electrical torch, battery not included



| Art. No. | weight | PU |
|----------|--------|----|
| 10 06 66 | 145 | 1 |

T-Handle socket wrenches



chrome vanadium steel, insulated, for hexagon nuts, DIN 7440, VDE 0680/2/3.78, 0682/201, 2-coloured coating-insulation - inside yellow/outside red.



⚠ 1000 V EN 60900



| Art. No. | size of key | screws | shank | handle | weight | PU |
|----------|-------------|--------|-------|--------|--------|----|
| 11 00 00 | 10 | 6 | 200 | 160 | 310 | 1 |
| 11 00 02 | 11 | 7 | 200 | 160 | 315 | 1 |
| 11 00 04 | 12 | - | 200 | 160 | 320 | 1 |
| 11 00 06 | 13 | 8 | 200 | 160 | 320 | 1 |
| 11 00 08 | 14 | - | 200 | 160 | 325 | 1 |
| 11 00 10 | 17 | 10 | 200 | 160 | 380 | 1 |
| 11 00 12 | 19 | - | 200 | 160 | 420 | 1 |
| 11 00 22 | 11 | 6 | 300 | 160 | 370 | 1 |
| 11 00 24 | 12 | - | 300 | 160 | 375 | 1 |
| 11 00 26 | 13 | 8 | 300 | 160 | 380 | 1 |
| 11 00 28 | 14 | - | 300 | 160 | 385 | 1 |
| 11 00 30 | 17 | 10 | 300 | 160 | 560 | 1 |
| 11 00 32 | 19 | - | 300 | 160 | 680 | 1 |
| 11 00 34 | 22 | - | 300 | 160 | 810 | 1 |
| 11 00 36 | 24 | - | 300 | 160 | 990 | 1 |

T-handle

3/8" 1/2"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated according to VDE 0680/2/3.78, 2-coloured coating-insulation - inside yellow/outside red.



⚠ 1000 V EN 60900



| Art. No. | screws M | shank | handle | weight | PU |
|----------|----------|-------|--------|--------|----|
| 11 00 39 | 3/8" | 200 | 160 | 500 | 1 |
| 11 00 40 | 1/2" | 200 | 160 | 500 | 1 |

Right-angle-screw driver



chrome vanadium steel, for hexagon socket screws, full insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red.



⚠ 1000 V EN 60900



| Art. No. | size of key | screws M | weight | PU |
|----------|-------------|----------|--------|----|
| 11 00 42 | 3 | 4 | 40 | 1 |
| 11 00 44 | 4 | 5 | 40 | 1 |
| 11 00 46 | 5 | 6 | 50 | 1 |
| 11 00 48 | 6 | 8 | 70 | 1 |
| 11 00 50 | 8 | 8 | 130 | 1 |
| 11 00 52 | 10 | 8 | 180 | 1 |
| 11 00 54 | 12 | 8 | 210 | 1 |

Screw driver



chrome vanadium steel, for screws with hexagon inserts, full insulated acc. to VDE 0682/201, 2-coloured coating-insulation - inside yellow/outside red.



⚠ 1000 V EN 60900



| Art. No. | size of key | screws M | weight | PU |
|----------|-------------|----------|--------|----|
| 11 00 60 | 5 | 6 | 165 | 1 |
| 11 00 62 | 6 | 8 | 175 | 1 |
| 11 00 64 | 8 | 10 | 200 | 1 |

Cross type socket wrenches

chrome vanadium steel, no contact with steel insert, fully insulated acc. to VDE 0680/2/3.78, 2-coloured coating-insulation - inside yellow/outside red.



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| Art. No. | size | size of key | length | weight | PU |
|----------|------|-------------|--------|--------|----|
| 11 00 70 | 1 | 10-11-14-17 | 200 | 225 | 1 |
| 11 00 74 | 3 | 11-12-13-17 | 200 | 225 | 1 |
| 11 00 76 | 4 | 10-13-14-17 | 200 | 225 | 1 |
| 11 00 78 | 5 | 11-13-14-17 | 200 | 225 | 1 |
| 11 00 80 | 6 | 13-17-19-22 | 200 | 360 | 1 |

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Counter hold spanners

chrome vanadium steel, 2-coloured coating-insulation - inside yellow/outside red.

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| Art. No. | size | length | weight | PU |
|----------|------|--------|--------|----|
| 11 00 81 | 10 | 200 | 120 | 1 |
| 11 00 83 | 12 | 200 | 120 | 1 |
| 11 00 84 | 13 | 200 | 140 | 1 |
| 11 00 85 | 14 | 250 | 150 | 1 |
| 11 00 87 | 16 | 260 | 250 | 1 |
| 11 00 89 | 17 | 270 | 255 | 1 |
| 11 00 91 | 18 | 265 | 250 | 1 |
| 11 00 93 | 19 | 270 | 275 | 1 |
| 11 00 95 | 20 | 275 | 300 | 1 |
| 11 00 97 | 22 | 275 | 300 | 1 |
| 11 00 99 | 24 | 270 | 350 | 1 |

Torque wrench

3/8"

reversible ratchet system, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red.



⚠ 1000 V EN 60900



| Art. No. | square | a-range | length | weight | PU |
|----------|---------|-----------|--------|--------|----|
| 11 00 56 | EN 3/8" | 5 - 27 Nm | 280 | 920 | 1 |
| 11 00 65 | EN 3/8" | 5 - 50 Nm | 370 | 1070 | 1 |

Torque wrench

1/2"

reversible ratchet system, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red.



⚠ 1000 V EN 60900



| Art. No. | square | a-range | length | weight | PU |
|----------|---------|-------------|--------|--------|----|
| 11 00 58 | EN 1/2" | 5 - 27 Nm | 280 | 930 | 1 |
| 11 00 66 | EN 1/2" | 5 - 50 Nm | 370 | 1100 | 1 |
| 11 00 67 | EN 1/2" | 20 - 100 Nm | 460 | 1200 | 1 |
| 11 00 68 | EN 1/2" | 60 - 220 Nm | 530 | 1300 | 1 |

Ratchet system, VDE/GS

1/2" 3/8"

full insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red.



⚠ 1000 V EN 60900



| Art. No. | square | length | weight | PU |
|-------------|--------|--------|--------|----|
| 11 03 31 EN | 3/8" | 190 | 130 | 1 |
| 11 03 32 EN | 1/2" | 255 | 500 | 1 |

Torque wrench

3/8"

reversible ratchet system, adjustable valve between 5-27 Nm, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red.

Please specify the attitude you need.

⚠ 1000 V EN 60900



| Art. No. | square | length | length | weight | PU |
|-------------|--------|--------|--------|--------|----|
| 30 03 10 EN | 3/8" | 280 | 280 | 900 | 1 |

Torque wrench

1/2"

reversible ratchet system, adjustable valve between 5-27 Nm, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red

Please specify the attitude you need.

⚠ 1000 V EN 60900



| Art. No. | square | length | weight | PU |
|-------------|--------|--------|--------|----|
| 30 03 12 EN | 1/2" | 280 | 1000 | 1 |

Extensions

1/2" 3/8"

with locking device against accidental loosening of sockets or extensions, full insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red



⚠ 1000 V EN 60900



| Art. No. | square | length | weight | PU |
|-------------|--------|--------|--------|----|
| 11 03 37 EN | 3/8" | 125 | 170 | 1 |
| 11 03 35 EN | 3/8" | 250 | 280 | 1 |
| 11 03 36 EN | 1/2" | 125 | 220 | 1 |
| 11 03 38 EN | 1/2" | 250 | 420 | 1 |

Hexagon sockets

1/2"

1/2" square drive, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red



⚠ 1000 V EN 60900



| Art. No. | size of key | length | weight | PU |
|-------------|-------------|--------|--------|----|
| 11 03 39 EN | 8 | 50 | 80 | 1 |
| 11 03 40 EN | 10 | 50 | 80 | 1 |
| 11 03 42 EN | 11 | 50 | 80 | 1 |
| 11 03 44 EN | 12 | 50 | 80 | 1 |
| 11 03 46 EN | 13 | 50 | 80 | 1 |
| 11 03 48 EN | 14 | 50 | 80 | 1 |
| 11 03 50 EN | 17 | 50 | 100 | 1 |
| 11 03 52 EN | 19 | 50 | 100 | 1 |
| 11 03 54 EN | 22 | 50 | 110 | 1 |
| 11 03 56 EN | 24 | 50 | 130 | 1 |
| 11 03 58 EN | 27 | 50 | 160 | 1 |
| 11 03 60 EN | 30 | 50 | 190 | 1 |
| 11 03 62 EN | 32 | 50 | 210 | 1 |

Hexagon sockets



3/8" square drive, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red.



⚠️ 1000 V EN 60900



| Art. No. | size of key | length | weight | PU |
|-------------|-------------|--------|--------|----|
| 11 03 63 EN | 8 | 40 | 70 | 1 |
| 11 03 64 EN | 9 | 40 | 70 | 1 |
| 11 03 65 EN | 10 | 40 | 70 | 1 |
| 11 03 66 EN | 11 | 40 | 70 | 1 |
| 11 07 00 EN | 12 | 40 | 70 | 1 |
| 11 03 67 EN | 13 | 40 | 70 | 1 |
| 11 03 71 EN | 14 | 40 | 70 | 1 |
| 11 03 68 EN | 17 | 40 | 70 | 1 |
| 11 03 69 EN | 19 | 40 | 70 | 1 |
| 11 07 02 EN | 22 | 40 | 70 | 1 |

Hexagon sockets DIN 7448



extra long, 1/2" square drive, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red.



⚠️ 1000 V EN 60900



| Art. No. | size of key | length | weight | PU |
|-------------|-------------|--------|--------|----|
| 11 03 73 EN | 10 | 80 | 110 | 1 |
| 11 03 74 EN | 11 | 80 | 110 | 1 |
| 11 03 75 EN | 13 | 80 | 110 | 1 |
| 11 03 76 EN | 14 | 80 | 110 | 1 |
| 11 03 77 EN | 17 | 80 | 110 | 1 |
| 11 03 78 EN | 19 | 80 | 110 | 1 |
| 11 03 79 EN | 22 | 80 | 110 | 1 |

Dies for screws, hexagon



3/8" square drive, made of chrome vanadium steel, forged, oil hardened, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red.



⚠️ 1000 V EN 60900



| Art. No. | size of key | length | weight | PU |
|-------------|-------------|--------|--------|----|
| 30 03 02 EN | 4 | 65 | 45 | 1 |
| 30 02 96 EN | 5 | 65 | 50 | 1 |
| 30 02 98 EN | 6 | 65 | 50 | 1 |
| 30 02 99 EN | 8 | 65 | 65 | 1 |
| 30 03 05 EN | 10 | 65 | 65 | 1 |

Dies for screws, hexagon



1/2" square drive, made of chrome vanadium steel, forged, oil hardened, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red.



⚠️ 1000 V EN 60900



| Art. No. | size of key | length | weight | PU |
|-------------|-------------|--------|--------|----|
| 30 02 94 EN | 4 | 70 | 80 | 1 |
| 30 02 97 EN | 5 | 70 | 80 | 1 |
| 30 02 95 EN | 6 | 70 | 85 | 1 |
| 30 03 03 EN | 8 | 70 | 95 | 1 |
| 30 03 06 EN | 10 | 70 | 95 | 1 |

Torque stopper



with short extension, locable for all sockets with 3/8" drive, full insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red.

⚠️ 1000 V EN 60900



| Art. No. | square | a-range | weight | PU |
|-------------|--------|---------|--------|----|
| 11 04 56 EN | 3/8" | 12 Nm | 310 | 1 |
| 11 04 57 EN | 3/8" | 18 Nm | 310 | 1 |
| 11 04 58 EN | 3/8" | 25 Nm | 310 | 1 |

Single ended spanners

chrome vanadium steel, full insulated acc. to VDE EN 60900, offset at 15°, 2-coloured coating-insulation - inside yellow/outside red.



⚠️ 1000 V EN 60900



| Art. No. | size of key | length | th | weight | PU |
|----------|-------------|--------|------|--------|----|
| 11 02 60 | 6 | 75 | 3 | 10 | 1 |
| 11 02 62 | 7 | 80 | 3,5 | 20 | 1 |
| 11 02 64 | 8 | 85 | 3,5 | 20 | 1 |
| 11 02 66 | 9 | 100 | 4 | 20 | 1 |
| 11 02 68 | 10 | 120 | 5 | 30 | 1 |
| 11 02 70 | 11 | 130 | 5,5 | 40 | 1 |
| 11 02 72 | 12 | 140 | 5,5 | 50 | 1 |
| 11 02 74 | 13 | 155 | 6 | 60 | 1 |
| 11 02 76 | 14 | 170 | 6 | 70 | 1 |
| 11 02 78 | 17 | 185 | 6,5 | 100 | 1 |
| 11 02 80 | 19 | 210 | 7,5 | 160 | 1 |
| 11 02 82 | 22 | 230 | 8,5 | 230 | 1 |
| 11 02 84 | 24 | 250 | 9,5 | 250 | 1 |
| 11 02 86 | 27 | 290 | 11,5 | 260 | 1 |
| 11 02 88 | 30 | 345 | 13 | 380 | 1 |
| 11 02 90 | 32 | 350 | 15 | 400 | 1 |

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Ring spanners

chrome vanadium steel, fully insulated acc. to VDE EN 60900, offset at 75°, 2-coloured coating-insulation - inside yellow/outside red.



⚠️ 1000 V EN 60900



| Art. No. | size of key | length | weight | PU |
|----------|-------------|--------|--------|----|
| 11 03 00 | 6 | 140 | 40 | 1 |
| 11 03 02 | 7 | 140 | 40 | 1 |
| 11 03 04 | 8 | 150 | 40 | 1 |
| 11 03 06 | 9 | 155 | 40 | 1 |
| 11 03 08 | 10 | 160 | 70 | 1 |
| 11 03 10 | 11 | 170 | 80 | 1 |
| 11 03 12 | 12 | 180 | 120 | 1 |
| 11 03 14 | 13 | 195 | 130 | 1 |
| 11 03 16 | 14 | 205 | 150 | 1 |
| 11 03 18 | 17 | 240 | 180 | 1 |
| 11 03 20 | 19 | 260 | 240 | 1 |
| 11 03 22 | 22 | 280 | 300 | 1 |
| 11 03 24 | 24 | 280 | 340 | 1 |

Adjustable wrenches to DIN 3117 A

steel forged, 2-coloured coating-insulation - inside yellow/outside red.



⚠️ 1000 V EN 60900



| Art. No. | length | a-range | weight | PU |
|----------|--------|----------|--------|----|
| 11 05 55 | 200 | to 26 mm | 370 | 2 |
| 11 05 56 | 250 | to 31 mm | 460 | 2 |
| 11 05 57 | 300 | to 36 mm | 550 | 2 |

Slip on bushes

self clamping, not numbered

⚠️ 1000 V EN 60900



| Art. No. | length | Ø | weight | PU |
|----------|--------|-----|--------|----|
| 12 00 70 | 10 | 75 | 10 | 1 |
| 12 00 72 | 20 | 100 | 20 | 1 |
| 12 00 74 | 30 | 120 | 40 | 1 |
| 12 00 71 | 40 | 135 | 55 | 1 |
| 12 00 69 | 50 | 155 | 95 | 1 |
| 12 00 73 | 60 | 130 | 105 | 1 |

PVC-selfadhesive tape

VDE 0340/T1/5.75, temperature area - 10 to + 90° C, 100 x 0,15 mm



| Art. No. | colour | tot. length | weight | PU |
|----------|--------|-------------|--------|----|
| 12 00 95 | grey | 10 | 150 | 2 |
| 12 00 96 | red | 10 | 150 | 2 |

Plastic wedge

with bright slot for all common cable cutters, oval form without sharp edges

⚠️ 1000 V EN 60900



| Art. No. | size | weight | PU |
|----------|----------|--------|----|
| 12 01 02 | 225 x 45 | 225 | 1 |

Plastic wedge

without slot, oval form without sharp edges, long version with large head

⚠️ 1000 V EN 60900



| Art. No. | size | weight | PU |
|----------|----------|--------|----|
| 12 01 00 | 200 x 25 | 55 | 1 |

Wedges

wood or plastic



| Art. No. | size | type | material | weight | PU |
|----------|------|----------------|----------|--------|----|
| 12 00 98 | 1 | without groove | wood | 50 | 5 |
| 12 00 99 | 2 | with groove | wood | 50 | 5 |
| 12 00 94 | 1 | without groove | plastic | 50 | 5 |
| 12 00 97 | 2 | with groove | plastic | 50 | 5 |

Cleaning brushes Safety Line

PVC-pattern



| Art. No. | length | width | weight | PU |
|----------|--------|-------|--------|----|
| 15 00 36 | 420 | 25 | 50 | 6 |
| 15 00 37 | 420 | 38 | 50 | 6 |
| 15 00 38 | 420 | 50 | 100 | 6 |

Electrician's safety levels

nonconducting plastic material, with level and plumb



| Art. No. | length | width | height | weight | PU |
|----------|--------|-------|--------|--------|----|
| 24 00 57 | 400 | 24 | 52 | 200 | 1 |
| 24 00 58 | 600 | 24 | 52 | 250 | 1 |

Engineers' hammers DIN 1041

german pattern, with red ultramid handle



| Art. No. | h-weight | weight | PU |
|----------|----------|--------|----|
| 18 02 30 | 200 | 280 | 6 |
| 18 02 32 | 300 | 390 | 6 |

PVC hammer

free of breakstroke, head of polyethylen, break-, wear- and splinter-proof, heads interchangeable, dia. 25 mm



| Art. No. | Ø | length | weight | PU |
|----------|----|--------|--------|----|
| 18 02 95 | 25 | 290 | 540 | 1 |
| 18 02 97 | 35 | 290 | 790 | 1 |

Stripping pliers

fully insulated acc. to VDE EN 60900, for cutting and stripping off cable sheaths of PVC, PE and VPE, limited cutting deep and therefore no damage on the inside conductors, easy handling, 2-coloured coating-insulation - inside yellow/outside red



| Art. Nr. | Ø | size | weight | PU |
|----------|---------|------|--------|----|
| 20 01 49 | 26 - 52 | 200 | 690 | 1 |

Cable stripping knives

with strong, straight blade, tough elastic plastic handle, blade protector



| Art. No. | lob | weight | PU |
|----------|-----|--------|----|
| 20 00 00 | 50 | 75 | 6 |

Cable stripping knives

with hookformed blade, tough elastic plastic handle, blade protector



| Art. No. | lob | weight | PU |
|----------|-----|--------|----|
| 20 00 02 | 35 | 70 | 6 |

Electricians' knives

with insulated hookblade, tough elastic plastic handle, blade protector



| Art. No. | lob | weight | PU |
|----------|-----|--------|----|
| 20 00 03 | 35 | 70 | 6 |

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Knives

especially for phases. blade protector



⚠ 1000 V EN 60900



| Art. No. | lob | weight | PU |
|----------|-----|--------|----|
| 20 00 04 | 35 | 70 | 6 |

Knives

with straight, part insulated, strong blade, tough elastic plastic handle, blade protector



⚠ 1000 V EN 60900



| Art. No. | lob | weight | PU |
|----------|-----|--------|----|
| 20 00 05 | 40 | 70 | 6 |

Cable stripping knives

with hook blade, specially for slitting of damproom cable, tough elastic plastic handle, blade protector



⚠ 1000 V EN 60900



| Art. No. | lob | weight | PU |
|----------|-----|--------|----|
| 20 00 07 | 50 | 70 | 6 |

Cable stripping knives

tough elastic plastic handle, blade protector



⚠ 1000 V EN 60900



| Art. No. | lob | weight | PU |
|----------|-----|--------|----|
| 20 00 09 | 50 | 95 | 6 |

Cable stripping knives

tough elastic plastic handle, blade protector



⚠ 1000 V EN 60900



| Art. No. | lob | weight | PU |
|----------|-----|--------|----|
| 20 00 13 | 50 | 95 | 6 |

Cable cutters

Cable cutters of carbon-steel, maximum cutting capacity due to special cutting-geometry, with VDE insulation, 2-coloured coating-insulation - inside yellow/ outside red.



⚠ 1000 V EN 60900



| Art. No. | length | Ø | mass. | flex. mm2 | weight | PU |
|----------|--------|----|-------|-----------|--------|----|
| 20 01 20 | 215 | 20 | 25 | 70 | 325 | 1 |

Wire rope and cable cutters

with lever action, blades of high alloyed interchangeable, cutting capacity steel-alu-ropes up to 80 mm², for copper- and alucable, opening approx 10 mm

⚠ 1000 V EN 60900



| Art. No. | length | weight | PU |
|-------------|--------------------|--------|----|
| 20 00 81 | 570 | 1900 | 1 |
| 20 00 81/MK | spare cutting head | 350 | 1 |

Cable cutters

with leverage construction, cutter of alloyed special steel, forged, replaceable, squeeze-free cutting. Working range: for Copper- and Alu-cable max. 40 mm Ø

⚠ 1000 V EN 60900



| Art. No. | length | Ø | mm ² | weight | PU |
|----------|--------|----|-----------------|--------|----|
| 20 01 10 | 600 | 26 | 150 | 2700 | 1 |
| 20 01 41 | 700 | 33 | 180 | 3300 | 1 |
| 20 01 47 | 800 | 40 | 240 | 3900 | 1 |

Wire rope and cable cutters

without transmission, blades of high quality special steel, forged, replaceable, opening 20 mm, insulated, according to EN 60900
Working range: steel-alu-rope up to 120 mm², Copper- and Alu-cable

⚠ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------------------|--------|----|
| 20 01 30 | 600 | 3000 | 1 |
| 20 01 32 | spare cutting head | 340 | 1 |

Cable cutter

Grave version of vanadium steel, annealed, opening 15 mm, 2-coloured coating-insulation - inside yellow/outside red

 1000 V EN 60900



| Art. No. | length | Ø | massiv | flex. mm ² | weight | PU |
|----------|--------|----|--------|-----------------------|--------|----|
| 20 01 27 | 160 | 15 | 16 | 50 | 250 | 1 |

Double edged cable cutter

slight strain due to optimal lever-transmission, edges with precise grind for easy and proper cutting by one hand handling, opening 20 mm, forged of special carbon-steel, for copper and alu-cable, 2-coloured coating-insulation - inside yellow/ outside red

 1000 V EN 60900



| Art. No. | length | Ø | mm ² | weight | PU |
|----------|--------|----|-----------------|--------|----|
| 20 01 28 | 200 | 20 | 50 | 365 | 1 |

Cable cutter

Long version, slight strain, one and two hand handling, proper cutting due to precise grind, forged of special carbon-steel, 2-coloured coating-insulation - inside yellow/outside red

 1000 V EN 60900



| Art. No. | length | mm ² | weight | PU |
|----------|--------|-----------------|--------|----|
| 20 01 29 | 240 | bis 50 | 430 | 1 |

Cable cutter

forged cutting head of special carbon-steel, slight strain, easy and proper cutting, adjustable joint, opening 27 mm; working range: Copper- and Alu-cable up to 150 mm²

 1000 V EN 60900



| Art. Nr. | length | weight | PU |
|----------|--------|--------|----|
| 20 01 23 | 500 | 1480 | 1 |

VDE ratchet cable cutter with cover

One-hand cable cutter with ratchet, optimal lever-transmission, encapsulated head, for copper and alu-cable, opening 25 mm, 2-coloured coating-insulation - inside yellow/outside red

 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 20 01 09 | 290 | 900 | 1 |

Hacksaws frames

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

 1000 V EN 60900



| Art. No. | length | size of key | weight | PU |
|----------|--------|-------------|--------|----|
| 11 05 58 | 200 | 150 | 210 | 1 |

Hacksaws frames

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

 1000 V EN 60900



| Art. No. | length | size of blade | th | weight | PU |
|----------|--------|---------------|--------|--------|----|
| 11 05 59 | 350 | 300 | 18 x 8 | 1005 | 1 |

Combination pliers

alloyed carbon steel, C 45, oil-hardened, cutting edges inductive hardened, for soft and hard wire up to 150 kp/mm² (N 1500), german pattern, polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red

  
 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 00 56 | 185 | 350 | 6 |
| 21 00 58 | 205 | 400 | 6 |

Diagonal cutters

swedish pattern, high alloyed carbon steel, oil-hardened, C 60, cutting edges inductive hardened, for soft and hard wire up to 200 kp/mm² (N 2000), polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red

  
 1000 V EN 60900



| Art. No. | length | CC-Ø | weight | PU |
|----------|--------|------|--------|----|
| 21 01 00 | 165 | 3 | 260 | 6 |
| 21 01 02 | 185 | 3,5 | 360 | 6 |

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Diagonal cutters

swedish pattern, high alloyed carbon steel, oil-hardened, C 60, cutting edges inductive hardened, for soft and hard wire up to 200 kp/mm² (N 2000), polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



| Art. No. | length | CC-Ø | weight | PU |
|----------|--------|------|--------|----|
| 21 01 10 | 240 | 3,5 | 500 | 6 |

Long chain nose pliers

alloyed carbon steel, 45° angled nose, C 45, oil-hardened, cutting edges inductive hardened, for any wire up to 150 kp/mm² (N 1500), polished chrome plated



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 03 90 | 200 | 260 | 6 |

Front cutter

alloyed carbon steel, cutting edges inductive hardened, polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 03 03 | 160 | 350 | 6 |

Water pump pliers

chrome vanadium, 31 Cr V3, box-joint, burner hole, teeth inductive hardened, finger protection, oil-hardened, 2-coloured coating-insulation - inside yellow/outside red



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 05 83 | 300 | 380 | 6 |

Short flat nose pliers

C 45, alloyed carbon steel, oil-hardened, polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 02 70 | 160 | 250 | 6 |

Water pump pliers

heavy pattern, made of chrome vanadium steel, with roll, polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 05 88 | 260 | 580 | 6 |

Short round nose pliers

C 45, alloyed carbon steel, oil-hardened, polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 02 96 | 160 | 250 | 6 |

Wire stripping pliers

C 45, oil-hardened, with spring and adjustment screw, for cable of 0,2 - 6 mm Ø, polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 06 48 | 160 | 240 | 6 |

Long chain nose pliers

straight, alloyed carbon steel, C 45, oil-hardened, cutting edges inductive hardened, for any wire up to 150 kp/mm² (N 1500), polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 03 88 | 200 | 260 | 6 |

Flat nose plier

all of plastic, specially for mounting and blocking of electricmeters



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 12 00 52 | 180 | 150 | 1 |

Combination plier

german pattern, comfort grip, alloyed carbon steel, C 45, oil-hardened, cutting edges inductive hardened, for soft and hard wire up to 150 kp/mm² (N 1500), polished chrome plated



⚠ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 12 00 | 185 | 350 | 6 |
| 21 12 02 | 205 | 400 | 6 |

Side cutter

swedish pattern, high alloyed carbon steel, oil-hardened, C 60, cutting edges inductive hardened, for soft and hard wire up to 200 kp/mm² (N 2000), polished chrome plated



⚠ 1000 V EN 60900



| Art. No. | length | CC | weight | P |
|----------|--------|-----|--------|---|
| 21 12 04 | 165 | 3 | 250 | 6 |
| 21 12 06 | 185 | 3,5 | 320 | 6 |

Power side cutter

chrome vanadium steel, cutting edges inductive hardened, polished chrome plated



⚠ 1000 V EN 60900



| Art. No. | length | CC | weight | P |
|----------|--------|-----|--------|---|
| 21 12 17 | 170 | 2,5 | 230 | 6 |
| 21 12 19 | 205 | 3,0 | 285 | 6 |

Long chain nose pliers

straight, alloyed carbon steel, C 45, oil-hardened, cutting edges inductive hardened, for any wire up to 150 kp/mm² (N 1500), polished chrome plated



⚠ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 12 08 | 200 | 260 | 6 |

Long chain nose pliers

alloyed carbon steel, 45° angled nose, C 45, oil-hardened, cutting edges inductive hardened, for any wire up to 150 kp/mm² (N 1500), polished chrome plated



⚠ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 12 10 | 200 | 260 | 6 |

Short flat nose pliers

C 45, oil-hardened, polished chrome plated, short body



⚠ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 12 12 | 160 | 250 | 6 |

Wire stripping plier

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V EN 60900



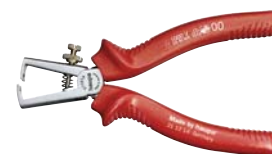
| Art. No. | length | ∅ | weight | PU |
|----------|--------|---------|--------|----|
| 21 02 65 | 160 | 0,2 - 6 | 180 | 1 |

Wire stripping plier

C 45, oil-hardened, with spring and adjustment screw, for cable of 0,2 - 6 mm ∅, polished chrome plated



⚠ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 12 14 | 160 | 240 | 6 |

Short round nose pliers

C 45, alloyed carbon steel, oil-hardened, polished chrome plated



⚠️ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 12 16 | 160 | 250 | 6 |

Plan grip plier

working head insulated, made of special alloy steel, long, flat, plain gripping jaws, round edges, 2-coloured coating-insulation - inside yellow/outside red

⚠️ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 02 98 | 200 | 215 | 1 |

Long chain nose pliers

straight, working head insulated, 2-coloured coating-insulation - inside yellow/outside red, cutting edges inductive hardened

⚠️ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 02 66 | 160 | 170 | 1 |
| 21 02 67 | 200 | 225 | 1 |

Short flat nose pliers

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠️ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 02 99 | 160 | 200 | 1 |

Combination pliers

working head insulated, 2-coloured coating-insulation - inside yellow/outside red, cutting edges inductive hardened

⚠️ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 02 63 | 185 | 290 | 1 |
| 21 02 64 | 205 | 385 | 1 |

Long chain nose pliers

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠️ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 03 00 | 160 | 205 | 1 |

Long chain nose pliers

straight, working head insulated, 2-coloured coating-insulation - inside yellow/outside red, cutting edges inductive hardened

⚠️ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 02 97 | 200 | 210 | 1 |

Side cutter

working head insulated, 2-coloured coating-insulation - inside yellow/outside red, cutting edges inductive hardened

⚠️ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 03 01 | 160 | 270 | 1 |
| 21 03 02 | 180 | 330 | 1 |

Insulated tweezers

austenitic steel, pointed, PVC-insulated

⚠ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 10 60 | 130 | 26 | 1 |

Insulated tweezers

austenitic steel, pointed round, bent, PVC-insulated



⚠ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 10 62 | 145 | 32 | 1 |

Insulated tweezers

austenitic steel, wide round, flat, PVC-insulated



⚠ 1000 V EN 60900



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 21 10 64 | 145 | 42 | 1 |

Tool folding bags „Rebell“

special synthetic material, with snap lock, signal-red, with 12 compartments for tools acc. to VDE EN 60900



| Art. No. | length | width | height | weight | PU |
|----------|--------|-------|--------|--------|----|
| 22 00 16 | 300 | 50 | 230 | 980 | 1 |

Pliers Set

with VDE-safety-isolation, best Quality, pliers polished chrome plated, 4 pieces

- Combination pliers 185 mm
- Side cutter 165 mm
- Long chain nose pliers 200 mm
- Wire stripping pliers 160 mm



⚠ 1000 V EN 60900



| Art. No. | set | weight | PU |
|----------|----------|--------|----|
| 22 01 23 | 4 pieces | 800 | 1 |

VDE/GS - Tool sets

with VDE EN 60900, in red coloured plastic wallet

11 pieces, Contents: 1 Comb. pliers 185 mm, 1 Round nose plier 160 mm, 1 Side cutter 165 mm, 1 Wire stripping plier, 1 Screw driver 75 mm, 1 Screw driver 100 mm, 1 Screw driver 125 mm, 1 Screw driver 150 mm, 1 Cross slotted screwdriver PH No. 1, 1 Nut driver 7 mm, 1 Voltage tester 100- 1250 V



⚠ 1000 V EN 60900



| Art. No. | set | weight | PU |
|----------|-----------|--------|----|
| 22 01 30 | 11 pieces | 2600 | 1 |

Tool case „Delux“

of signal-red leather, with 54 safety tools and safeguard appliance according to

VDE EN 60900, case 22 01 42 containing:

| | |
|----------------------------|--------------|
| Telephone plier | straight |
| Telephone plier | bent |
| Comb. plier | 185 mm |
| Side cutter | 165 mm |
| Wire stripping plier | |
| Plastic plier | 180 mm |
| Electrician's screw driver | 75 mm |
| Electrician's screw driver | 100 mm |
| Electrician's screw driver | 125 mm |
| Electrician's screw driver | 150 mm |
| Cross slotted screw driver | PH size 1 |
| Cross slotted screw driver | PH size 2 |
| Nut driver | 5,5 mm |
| Nut driver | 7,0 mm |
| Nut driver | 8,0 mm |
| Nut driver | 10,0 mm |
| Voltage tester „DUSPOL“ | |
| Socket | size 10 |
| Socket | size 11 |
| Socket | size 12 |
| Socket | size 13 |
| Socket | size 14 |
| Socket | size 15 |
| Socket | size 16 |
| Reversible ratchet | 1/2" |
| T-sliding handle | 1/2" |
| Open end spanner | SW 10 |
| Open end spanner | SW 12 |
| Open end spanner | SW 13 |
| Open end spanner | SW 19 |
| Open end spanner | SW 22 |
| Open end spanner | SW 24 |
| Cable knife | |
| Cable scissor | 200 mm |
| Slip-on bushes 5 pieces | No. 1, 10 mm |
| Slip-on bushes 5 pieces | No. 2, 10 mm |
| Slip-on bushes 5 pieces | No. 3, 10 mm |
| Plastic clamps | |
| Covering tape, grey | |
| Covering tape, red | |
| Safety grip | |
| Gloves | size 9 |



1000 V EN 60900



| Art. No. | set | weight | PU |
|----------|-----------|--------|----|
| 22 01 35 | 54 pieces | 13500 | 1 |

Tool case „Rotor“

of signal-red leather, with 47 safety tools and safeguard appliance according to

VDE EN 60900, case 22 01 42 containing:

| | |
|---------------------|---------------|
| Comb. plier | 185 mm |
| Side cutter | 165 mm |
| Wire stripper plier | |
| Round nose plier | 160 mm |
| Plastic clamp | |
| Gloves | size 10 |
| Screw driver | 60 mm |
| Screw driver | 75 mm |
| Screw driver | 100 mm |
| Safety grip | |
| Nut driver | size 6 |
| Nut driver | size 7 |
| Nut driver | size 8 |
| Nut driver | size 9 |
| Rubber towels | 1000 mm |
| 5 slip-on-bushes | size 1, 10 mm |
| 5 slip-on-bushes | size 2, 10 mm |
| 5 slip-on-bushes | size 3, 10 mm |
| 5 slip-on-bushes | 10 mm |
| 5 slip-on-bushes | 20 mm |
| 5 slip-on-bushes | 30 mm |
| Cable knife | |
| Mains tester | 150 - 250 V |



1000 V EN 60900



| Art. No. | set | weight | PU |
|----------|-----------|--------|----|
| 22 01 40 | 47 pieces | 7845 | 1 |

Tool case „Leopard“

rigid case, signal-red, complete with 32 safety-tools and safeguard appliance according to VDE EN 60900

Containing (1 piece each):

| | |
|--------------------------------------|----------------|
| Round Nose Plier | 160 mm |
| Telephone Plier, straight | 200 mm |
| Telephone Plier, bent | 200 mm |
| Combination Plier | 185 mm |
| Side Cutter | 165 mm |
| Wire Stripping Plier | 160 mm |
| Retaining Screw Driver | 100 mm |
| Retaining Screw Driver | 125 mm |
| Retaining Screw Driver | cross-slotted |
| Hexagon Angle Screw Driver | 6 mm |
| Hexagon Angle Screw Driver | 8 mm |
| Electrician's Screw Driver | 75 mm |
| Electrician's Screw Driver | 100 mm |
| Electrician's Screw Driver | 150 mm |
| Electrician's Screw Driver | 175 mm |
| Electrician's Screw Driver | 200 mm |
| Cross Slotted Screw Driver, Phillips | No. 1 |
| Cross Slotted Screw Driver, Phillips | No. 2 |
| Cross Slotted Screw Driver, Pozidriv | No. 1 |
| Cross Slotted Screw Driver, Pozidriv | No. 2 |
| Nut Driver | 5,5 mm |
| Nut Driver | 6 mm |
| Nut Driver | 7 mm |
| Nut Driver | 8 mm |
| Voltage Tester "DUSPOL" | 110 - 750 Volt |
| Cable Knife Jokari® | insulated |
| Cable Knife | |
| Cable Scissor | |
| Plastic Plier | 180 mm |
| Covering Tape, red | 10 m |
| NH-Safety Grip | |
| Gloves | size 9 |



⚠ 1000 V EN 60900



| Art. No. | set | length | width | height | weight | PU |
|----------|-----------|--------|-------|--------|--------|----|
| 22 01 36 | 32 pieces | 460 | 180 | 310 | 9950 | 1 |

Tool case „Venus Plus“

rigid case, signal-red, complete with 32 safety-tools and safeguard appliance according to VDE EN 60900

Containing (1 piece each):

| | |
|--------------------------------------|----------------|
| Round Nose Plier | 160 mm |
| Telephone Plier, straight | 200 mm |
| Telephone Plier, bent | 200 mm |
| Combination Plier | 185 mm |
| Side Cutter | 165 mm |
| Wire Stripping Plier | 160 mm |
| Retaining Screw Driver | 100 mm |
| Retaining Screw Driver | 125 mm |
| Retaining Screw Drive | cross-slotted |
| Hexagon Angle Screw Driver | 6 mm |
| Hexagon Angle Screw Driver | 8 mm |
| Electrician's Screw Driver | 75 mm |
| Electrician's Screw Driver | 100 mm |
| Electrician's Screw Driver | 150 mm |
| Electrician's Screw Driver | 175 mm |
| Electrician's Screw Driver | 200 mm |
| Cross Slotted Screw Driver, Phillips | No. 1 |
| Cross Slotted Screw Driver, Phillips | No. 2 |
| Cross Slotted Screw Driver, Pozidriv | No. 1 |
| Cross Slotted Screw Driver, Pozidriv | No. 2 |
| Nut Driver | 5,5 mm |
| Nut Driver | 6 mm |
| Nut Driver | 7 mm |
| Nut Driver | 8 mm |
| Voltage Tester "DUSPOL" | 110 - 750 Volt |
| Cable Knife Jokari® insulated | |
| Cable Knife | |
| Cable Scissor | |
| Plastic Plier | 180 mm |
| Covering Tape, red | 10 m |
| NH-Safety Grip | |
| Gloves | size 9 |



⚠ 1000 V EN 60900



| Art. No. | length | width | height | weight | PU |
|----------|--------|-------|--------|--------|----|
| 22 00 33 | 460 | 180 | 310 | 9980 | 1 |

Tool case „Venus“

rigid case, made of ABS-plastic material, signal-red, empty, suitable especially for safety-tools, excellent rib-profile on the outside, high-quality locks, inside with separation for documents, 2 plates with compartments for several tools, 1 tray of ABS-plastics with separations for individual divisions. Inside measurement: 460 x 180 x 310 mm



| Art. No. | length | width | height | weight | PU |
|----------|--------|-------|--------|--------|----|
| 22 00 32 | 460 | 180 | 310 | 5500 | 1 |

Tool case „Pendant“

rigid case, signal red, with Alu frame and 2 locks, with 3 plates with many compartments for tools



| Art. No. | length | width | height | weight | PU |
|----------|--------|-------|--------|--------|----|
| 22 00 76 | 460 | 180 | 310 | 5500 | 1 |

VDE/GS - Tool sets

with VDE EN 60900, in red coloured plastic wallet

11 pieces, Contents:

- 1 Comb. pliers 185 mm
- 1 Round nose plier 160 mm
- 1 Side cutter 165 mm
- 1 Wire stripping plier
- 1 Screw driver 75 mm
- 1 Screw driver 100 mm
- 1 Screw driver 125 mm
- 1 Screw driver 150 mm
- 1 Cross slotted screwdriver PH No. 1
- 1 Nut driver 7 mm
- 1 Voltage tester



1000 V EN 60900

| Art. No. | set | weight | PU |
|----------|-----------|--------|----|
| 22 01 30 | 11 pieces | 2600 | 1 |

Tool case

made of plastic, complete with 3/8" tools and safeguard appliance according to VDE EN 60900

Contents:

- 1 Reversible ratchet 1/2"
- 1 Extension 125 mm 1/2"
- 1 Extension 250 mm 1/2"
- 1 Slip-on-keys 1/2"
- 8 Sockets 1/2" (10, 12, 13, 14, 17, 19, 22, 24 mm)
- 3 Dies for hexagon screws 1/2", 5, 6, 8 mm
- 1 Screw driver 3,5 x 100 mm



1000 V EN 60900



| Art. No. | set | weight | PU |
|----------|-----------|--------|----|
| 22 02 05 | 16 pieces | 3000 | 1 |

Tool case „Real“

made of plastic, complete with 20 security tools according to VDE EN 60900

- Comb. plier 200 mm
- Side cutter 160 mm
- Telephone plier, straight 200 mm
- Wire stripper plier 200 mm
- Flat nose plier 160 mm
- Round nose plier 160 mm
- Mains tester
- Electrician's screw driver 2,5 x 75 mm
- Electrician's screw driver 3,5 x 100 mm
- Electrician's screw driver 5,5 x 125 mm
- Electrician's screw driver 6,5 x 150 mm
- Electrician's screw driver 8 x 175 mm
- Electrician's screw driver 10 x 200 mm
- Cross slotted screw driver PH size 1
- Nut driver 5 mm
- Nut driver 8 mm
- Nut driver 10 mm
- Nut driver 13 mm
- Cable knife
- Cable knife



1000 V EN 60900



| Art. No. | set | weight | PU |
|----------|-----------|--------|----|
| 22 01 48 | 20 pieces | 4200 | 1 |

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

Tool case „Biber“

made of plastic, complete with 26 security tools according to EN VDE 60900

| | |
|----------------------------|-------------------------------|
| Comb. plier | 200 mm |
| Side cutter | 160 mm |
| Telephone plier, straight | 200 mm |
| Reversible Ratchet | 1/2" |
| Extension | 250 mm, 1/2" |
| Cable knife | |
| Cable knife | |
| 7 socket, 1/2" | 10, 11, 12, 13, 14, 17, 19 mm |
| 7 open end spanner | 10, 11, 12, 13, 14, 17, 19 mm |
| Voltage tester | |
| Electrician's screw driver | 3,5 x 100 mm |
| Electrician's screw driver | 5,5 x 125 mm |
| Electrician's screw driver | 6,5 x 150 mm |
| Electrician's screw driver | 8 x 175 mm |



⚠ 1000 V EN 60900



| Art. No. | set | weight | PU |
|----------|-----------|--------|----|
| 22 01 46 | 26 pieces | 4180 | 1 |

Tool case

made of plastic, complete with 3/8" tools according to EN VDE 60900

Contents:

| | |
|---------------------------|--|
| Reversible ratchet | 3/8" |
| Extension | 125 mm 3/8" |
| Extension | 250 mm 3/8" |
| T-slip-on-keys | 3/8" |
| 8 Sockets | 3/8" (10, 12, 13, 14, 17, 19, 22, 24 mm) |
| 3 Dies for hexagon screws | 3/8", 5, 6, 8 mm |
| 1 Torque stopper | (12 to 25 Nm) |
| 1 Screw driver | 3,5 x 100 mm |



⚠ 1000 V EN 60900



| Art. No. | set | weight | PU |
|----------|-----------|--------|----|
| 22 01 47 | 17 pieces | 3200 | 1 |

VDE security set

Bag of imitation leather, for working under tension up to 1000 V, acc. to EN 60900,

Contents: 10 pieces: 1 piece each 2K-VDE electricians screw drivers VDE EN 60900 2,5 x 75 mm, 4 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm, 1 pc each 2K-VDE cross slotted Screw drivers Pozidriv VDE EN 60900 size 1 and 2, Combination plier VDE EN 60900 185 mm, Diagonal cutters VDE EN 60900 185 mm, Voltage tester "Profipol" CE 12-400~ V and 12-500 V, Cable stripping knife VDE EN 60900 35 mm



| Art. No. | set | weight | PU |
|----------|-----------|--------|----|
| 22 00 14 | 10 pieces | 1450 | 1 |

haupa[®]

...with safety better

CASE "HAUPA – LIFESAVER"

Aluminium Case, equipped with 66 Safety – Articles according to VDE EN 60900 respectively CE. Size: 830 mm x 550 mm x 300 mm, weight: 37,- kilos

- VDE Socket wrench 5 mm
- VDE Socket wrench 5,5 mm
- VDE Socket wrench 7 mm
- VDE Socket wrench 8 mm
- VDE Socket wrench 10 mm
- VDE Socket wrench 11 mm
- VDE Socket wrench 13 mm
- Euro-Voltage-Tester
- VDE Screwdriver 2,5 x 75 mm
- VDE Screwdriver 3 x 100 mm
- VDE Screwdriver 4 x 100 mm
- VDE Screwdriver 5,5 x 125 mm
- VDE Screwdriver 6,5 x 150 mm
- VDE Cross-slotted-Screwdriver Phillips Size 1
- VDE Cross-slotted-Screwdriver Phillips Size 2
- VDE Screwdriver Pozidrive Size 0
- VDE Screwdriver Pozidrive Size 1
- VDE Screwdriver Pozidrive Size 2
- VDE Right Angle-Allen Key 3
- VDE Right Angle-Allen Key 4
- VDE Right Angle-Allen Key 5
- VDE Right Angle-Allen Key 6
- VDE Right Angle-Allen Key 8
- VDE Right Angle-Allen Key 10
- VDE Right Angle-Allen Key 12
- VDE Open-End Spanner 6
- VDE Open End Spanner 7
- VDE Open End Spanner 8
- VDE Open End Spanner 9
- VDE Open End Spanner 10
- VDE Open End Spanner 11
- VDE Open End Spanner 12
- VDE Open End Spanner 13
- VDE Open End Spanner 14
- VDE Open End Spanner 17
- VDE Open End Spanner 19
- VDE Open End Spanner 22
- VDE Open End Spanner 24
- VDE Open-End Spanner 27
- VDE Open End Spanner 30
- VDE Open End Spanner 32
- Spanner for Switch-Cabinets
- Finger gloves Size 10, 1000V
- VDE Safety Face mask
- VDE Safety grip
- VDE Electricians Boots Size 42
- VDE Insulating floor mat
- VDE Rubber towels 600 mm
- VDE Plastic clip 160 mm (2 pieces)
- Slip-on Busches 10 mm (4 pieces)
- Safety belt 1400 mm
- Fallstop-Breaking device and rope shortening 2 m
- VDE Knife with strong blade
- VDE Cable cutter 200 mm
- VDE Combination plier 185 mm
- VDE Side cutter 180 mm
- VDE Long chain nose plier 200 mm
- VDE Wire stripping plier 165 mm
- VDE Tweezer, pointed round 150 mm
- Fall breaking belt Typ A



| Art. No. | length | width | height | weight | PU |
|----------|--------|-------|--------|--------|----|
| 22 04 00 | 830 | 550 | 300 | 37000 | 1 |

⚠ 1000 V EN 60900

Legal protection for registered designs applied

Cable soldering visor

water pressure proofed, putrescence inhibiting, difficult inflammable impregnation, 10 fields



| Art. No. | size | weight | PU |
|----------|---------|--------|----|
| 15 03 39 | Ø 3,0 m | 5100 | 1 |
| 15 03 41 | Ø 2,5 m | 4700 | 1 |

Cable soldering tent

water pressure proofed, putrescence inhibiting, rottenness proofed,



| Art. No. | size | weight | PU |
|----------|---------------------------------|--------|----|
| 15 03 51 | 3x2x2 m of canvas | 5800 | 1 |
| 15 03 53 | 2,6x2x2 m of canvas | 5300 | 1 |
| 15 03 55 | 2x1,8x1,8 m of canvas | 4500 | 1 |
| 15 03 57 | 3x2x2 m of PVC | 5300 | 1 |
| 15 03 59 | 2,6x2x2 m of PVC | 4700 | 1 |
| 15 03 61 | 2x1,8x1,8 m of PVC | 4300 | 1 |
| 15 03 47 | bag for cable soldering tent | 800 | 1 |
| 15 03 49 | window for cable soldering tent | 500 | 1 |

Ladder

ladder of glass fibre hardened polyester, steps of plastic, dimensions and loading capacity according DIN 4566



| Art. No. | height | weight | PU |
|----------|--------|--------|----|
| 15 03 71 | 4 m | 21900 | 1 |
| 15 03 73 | 2,9 m | 15400 | 1 |
| 15 03 75 | 1,8 m | 9400 | 1 |

Ladder

ladder of glass fibre hardened polyester, steps of plastic, dimensions and loading capacity according DIN 4566



| Art. No. | height | weight | PU |
|----------|--------|--------|----|
| 15 03 63 | 4 m | 9200 | 1 |
| 15 03 65 | 2,9 m | 6700 | 1 |
| 15 03 67 | 2,4 m | 5600 | 1 |
| 15 03 69 | 1,8 m | 4200 | 1 |

Safety Jacket IPS acc. to DIN VDE 0680 part 1 E

length 90 cm, with sewed on cowl, breast pocket with plate, colour signal-red, similar to DIN IEC 304.



| Art. No. | size | weight | PU |
|----------|-----------------|--------|----|
| 12 00 20 | S, M, L, XL | 2000 | 1 |
| 15 03 00 | Bag for storing | 800 | 1 |

Safety trousers IPS acc. to DIN VDE 0680 part 1 E

band trousers, adjustable elastic braces, outside pocket with plate, colour signal-red, similar to DIN IEC 304.



| Art. No. | size | weight | PU |
|----------|-----------------|--------|----|
| 12 00 22 | S, M, L, XL | 2000 | 1 |
| 15 03 00 | Bag for storing | 800 | 1 |

Electricians' protection helmets to DIN EN 397

adjustable head size



⚠️ 1000 V EN 60900



| Art. No. | colour | weight | PU |
|------------|--------|--------|----|
| 12 00 08 | green | 350 | 1 |
| 12 00 08/G | yellow | 350 | 1 |
| 12 00 08/W | white | 350 | 1 |
| 12 00 08/R | red | 350 | 1 |

Safety-face masks VDE 0680/1

for protection against arc faults



| Art. No. | colour | weight | PU |
|----------|-------------|--------|----|
| 12 00 10 | transparent | 300 | 1 |

Electricians protection visor acc. to EN 166

Protection against short circuit lighting, vision screen of acetate, glassy, transparent forehead protection, convenient head mounting and individual adjustable



| Art. No. | colour | weight | PU |
|----------|-------------|--------|----|
| 15 03 77 | transparent | 330 | 1 |

Safety glasses „Die Funktionelle“

up-to-date design, high carrying comfort and safety, with side plates and upper eye border protection to avoid entering of particles



| Art. No. | weight | PU |
|----------|--------|----|
| 12 00 80 | 28 | 5 |

Safety glasses

athletic full-disk-glass acc. EN 166, low weight(30g), clip-length and inclination adjustable, hard-coated disk



| Art. No. | weight | PU |
|----------|--------|----|
| 12 00 81 | 30 | 1 |

Safety glasses „Die Modische“

with modern polyamid-frame, side plates, portable and very closely to face and cheek, with double nose-strap, design tortoise-shell



| Art. No. | weight | PU |
|----------|--------|----|
| 12 00 82 | 28 | 5 |

Ear defenders

medium noise-reduction, fully insulated plastic design



| Art. No. | colour | weight | PU |
|----------|--------|--------|----|
| 12 01 10 | red | 200 | 1 |

Safety glasses

full-disk-glass with optimal disk-curvature, through this curvature, the glasses encloses the eye-area more than comparable goggles, clip-length and inclination adjustable, hard-coated disk



| Art. No. | weight | PU |
|----------|--------|----|
| 12 00 83 | 30 | 1 |

Ear defenders

good noise-reduction, high carrying-comfort, cushion adjustable



| Art. No. | colour | weight | PU |
|----------|--------|--------|----|
| 12 01 12 | blue | 200 | 1 |

Dust masks

light type, made of filter-fleece



| Art. No. | size | weight | PU |
|----------|-----------------|--------|----|
| 12 01 20 | filterclass P 1 | 10 | 1 |
| 12 01 22 | filterclass P 2 | 10 | 1 |

Top safety glasses „Maxima“

black, with soft inside frame, made of thermoplast material, which guarantees a high carrying-comfort and shock-absorption, scrape- and chemical resistant, UV-absorbant, antistatic, antidamping, design Polyamid 6,3 T



| Art. No. | weight | PU |
|----------|--------|----|
| 12 00 90 | 35 | 5 |

Cotton gloves for putting underneath



| Art. No. | size | weight | PU |
|----------|-----------|--------|----|
| 12 00 03 | universal | 50 | 1 |

Finger gloves acc. to DIN EN 60903

made from Latex, for operating voltages up to 500, 1000, 7500, 15000, 17000 to 26500 volt.



| Art. No. | Volt | tot. length | th | size | weight | PU |
|----------------|-------|-------------|---------|------|--------|----|
| 12 00 04 | 500 | 350 | ca. 0,5 | 9 | 425 | 1 |
| 12 00 05 | 500 | 350 | ca. 0,5 | 10 | 425 | 1 |
| 12 00 06 | 1000 | 400 | 1 | 9 | 425 | 1 |
| 12 00 07 | 1000 | 400 | 1 | 10 | 425 | 1 |
| 12 00 06 561 | 7500 | 400 | 1,5 | 10 | 425 | 1 |
| 12 00 06 563 S | 15000 | 400 | 1,5 | 10 | 425 | 1 |
| 12 00 06 564 S | 17000 | 400 | 2,3 | 10 | 425 | 1 |
| 12 00 06 587 | 26500 | 400 | 2,9 | 10 | 425 | 1 |

Safety grips

with slip off protection and protection sleeve, for low voltage (NH) fuses class 00 - 3, protective sleeve made from smooth, impregnated leather



| Art. No. | weight | PU |
|----------|--------|----|
| 12 00 12 | 245 | 1 |

Electricians' boots acc. to VDE 0680/1

size 42 to 48



| Art. No. | size | weight | PU |
|----------|---------|--------|----|
| 12 00 14 | 42 | 2160 | 1 |
| 12 00 15 | 43 | 2160 | 1 |
| 12 00 16 | 44 - 45 | 2160 | 1 |
| 12 00 17 | 46 | 2160 | 1 |
| 12 00 18 | 47 - 48 | 2160 | 1 |

Rubber towels acc. to VDE 0680/1

grease and acid-proof, for covering of live equipment



| Art. No. | length | width | th | weight | PU |
|----------|--------|-------|-----|--------|----|
| 12 00 40 | 120 | 120 | 1,6 | 35 | 1 |
| 12 00 42 | 350 | 250 | 1,6 | 220 | 1 |
| 12 00 44 | 600 | 600 | 1,6 | 910 | 1 |
| 12 00 46 | 1000 | 1000 | 1,6 | 2600 | 1 |
| 12 00 48 | 1200 | 1200 | 2,5 | 3200 | 1 |

Combined dowel and contact spanners

may be used for screws 2 - 63 A by changing the insert, handle made from insulating material



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 12 00 02 | 105 | 40 | 6 |

Covering blankets transparent

acc. to VDE EN 0680 part 1, special character 1000 V and VDE-GS-sign, transparent, UV-proofed



| Art. No. | length | width | th | weight | PU |
|----------|--------|-------|-----|--------|----|
| 15 03 02 | 1000 | 600 | 1,0 | 750 | 1 |
| 15 03 04 | 1000 | 600 | 0,5 | 375 | 1 |
| 15 03 06 | 1000 | 400 | 1,0 | 520 | 1 |
| 15 03 08 | 1000 | 400 | 0,5 | 260 | 1 |
| 15 03 10 | 1000 | 300 | 1,0 | 380 | 1 |
| 15 03 12 | 1000 | 300 | 0,5 | 190 | 1 |
| 15 03 14 | 600 | 400 | 1,0 | 340 | 1 |
| 15 03 16 | 600 | 400 | 0,5 | 170 | 1 |
| 15 03 18 | 400 | 300 | 1,0 | 170 | 1 |
| 15 03 20 | 400 | 300 | 0,5 | 85 | 1 |

Covering blankets transparent

acc. to VDE EN 0680 part 1, special character 1000 V and VDE-GS-sign, transparent, UV-proofed



| Art. No. | length | width | th | weight | PU |
|----------|--------|-------|-----|--------|----|
| 12 02 00 | 50000 | 1300 | 0,5 | 41500 | 1 |
| 15 03 22 | 25000 | 1200 | 1,0 | 38000 | 1 |

Insulating floor mats acc. to VDE 0680/1

with anti-skid surfaces



| Art. No. | size | weight | PU |
|----------|-------------------|------------|----|
| 12 00 30 | 1 m x 1 m x 4 mm | 4500 | 1 |
| 12 00 31 | 10 m x 1 m x 4 mm | role 45000 | 1 |

Safety-sets VDE/GS

in practical bag, 6 pieces

Contents: Electricians' helmet, safety mask, safety handle, gloves size 9 (1000 V), insulating mat 1000 x 1000 x 4 mm



| Art. No. | set | weight | PU |
|----------|---------------------------------|--------|----|
| 30 02 28 | 6 pieces | 7500 | 1 |
| 30 02 29 | 5 pieces without insulating mat | 2500 | 1 |

Safety belts acc. EN 358

with adjustable rope, safety belt universal for all sizes



| Art. No. | size | weight | PU |
|----------|-----------|--------|----|
| 15 02 40 | universal | 1110 | 1 |

Safety ropes acc. to A-DIN 5290

Safety ropes with hand loop and safety spring hooks acc. to A-DIN 5290, design SK 10 mm



| Art. No. | length | Ø | weight | PU |
|----------|--------|----|--------|----|
| 15 02 62 | 5 m | 16 | 1200 | 1 |
| 15 02 64 | 10 m | 16 | 2040 | 1 |
| 15 02 66 | 15 m | 16 | 2810 | 1 |
| 15 02 68 | 20 m | 16 | 3350 | 1 |

Fallstop - Breaking device and rope shortening acc. to EN 355

length 2 m, one hand spring hooks on both sides



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 15 02 74 | 2 m | 175 | 1 |

Fall breaking belts DIN EN 361

licensed under the number A.P.S. 6211/80, the arrester belt type A consists of a waist-belt with reinforced back-plate, back-strap with catching eyelet, adjustable shoulder-seat



| Art. No. | weight | PU |
|----------|--------|----|
| 15 02 70 | 1500 | 1 |

haupa[®]

...with safety better

Fallstop DIN 353-2, Typ Cobra

Applicability: The safety-type with the spring hook DIN 5290 is, if possible, to be fixed safely direct above the working place. The rope can be removed from the fixing-point through a pressknob. When approaching the fixing point, the rope has to be passed through from the backside by hand. With the „Fallstop“ it's possible to secure places on constructions of nearly every diameter by a circular „stroke“. The „Fallstop“ appliance will be fitted on the left arrester eyelet, the spring hook of the safety rope on the right one. With the „Fallstop“ it's possible to support yourself safety on the rope, also on extreme steey positions.



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 15 02 75 | 5 m | 230 | 1 |
| 15 02 76 | 10 m | 270 | 1 |
| 15 02 77 | 15 m | 310 | 1 |
| 15 02 78 | 20 m | 490 | 1 |
| 15 02 79 | 25 m | 600 | 1 |

Plastic clip

for fastening of rubber towels



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 12 00 49 | 80 | 25 | 1 |
| 12 00 50 | 160 | 45 | 1 |

Insulating and protecting covers

double faced, inside soft and outside strong plastic, for transformers and similar products



| Art. No. | length | weight | PU |
|----------|--------|--------|----|
| 12 00 57 | 80 | 335 | 1 |
| 12 00 59 | 300 | 700 | 1 |

Climping irons to DIN 48 345

postal-type, with 2 points, offset foot-plate and wide leather heel cap, width of points 260 mm, for wooden posts of 150 - 240 mm diam.



| Art. No. | size | weight | PU |
|----------|-----------|--------|----|
| 15 02 80 | universal | 4050 | 1 |

Climping irons

drop forged steel, 3 points, interchangeable frame, strong leather, for pales of 110 - 260 mm, for every size of shoes



| Art. No. | size | weight | PU |
|----------|----------|--------|----|
| 15 02 86 | smal cap | 4150 | 1 |
| 15 02 88 | wide cap | 4300 | 1 |

NH-protecting caps

for the covering of spring contacts

⚠ 1000 V EN 60900



| Art. No. | size | weight | PU |
|----------|-----------|--------|----|
| 12 00 58 | 315 x 170 | 390 | 1 |

Insulator cover for gable insulators

with plastic buttons, absolutely safety attachments, touch protection on the bottom side, of weak, weather proofed insulation-material, for long term usage suitable.

⚠ 1000 V EN 60900



| Art. Nr. | size | G | VE |
|----------|-----------|------|----|
| 12 00 89 | 115 x 270 | 1100 | 1 |

NH-protecting caps

for the covering of spring contacts

⚠ 1000 V EN 60900



| Art. No. | size | weight | PU |
|----------|-----------|--------|----|
| 12 00 77 | 170 x 140 | 140 | 1 |
| 12 00 78 | 255 x 135 | 205 | 1 |

Slip on bushes

for protective covering of bare live cable terminals, numbered: No. 1 - 2 - 3

⚠ 1000 V EN 60900



| Art. No. | length | Ø | für Nr. | weight | PU |
|----------|--------|----|---------|--------|----|
| 12 00 60 | 95 | 13 | 1 | 10 | 1 |
| 12 00 62 | 95 | 13 | 2 | 10 | 1 |
| 12 00 64 | 95 | 13 | 3 | 10 | 1 |

Insulator cover for gable insulators

with plastic buttons, absolutely safety attachments, touch protection on the bottom side, of weak, weather proofed insulation-material, for long term usage suitable.

⚠ 1000 V EN 60900



| Art. No. | size | weight | PU |
|----------|-----------|--------|----|
| 12 00 79 | 245 x 270 | 900 | 1 |

| Art. No. | Page | Art. No. | Page | Art. No. | Page | Art. No. | Page | Art. No. | Page | Art. No. | Page |
|-------------|------|------------|------|-------------|------|----------------|------|----------|------|-------------|------|
| 10 05 12 | 10 | 10 19 10 | 8 | 11 00 67 | 12 | 11 03 58 EN | 12 | 12 00 58 | 33 | 15 03 20 | 30 |
| 10 05 20 | 10 | 10 19 12 | 8 | 11 00 70 | 11 | 11 03 60 EN | 12 | 12 00 59 | 32 | 15 03 22 | 31 |
| 10 05 22 | 10 | 10 19 14 | 8 | 11 00 74 | 11 | 11 03 62 EN | 12 | 12 00 60 | 33 | 15 03 39 | 27 |
| 10 05 24 | 10 | 10 19 16 | 8 | 11 00 76 | 11 | 11 03 63 EN | 13 | 12 00 62 | 33 | 15 03 41 | 27 |
| 10 05 26 | 10 | 10 19 18 | 8 | 11 00 78 | 11 | 11 03 64 EN | 13 | 12 00 64 | 33 | 15 03 47 | 27 |
| 10 05 28 | 10 | 10 19 20 | 8 | 11 00 80 | 11 | 11 03 65 EN | 13 | 12 00 69 | 14 | 15 03 49 | 27 |
| 10 05 30 | 10 | 10 19 22 | 8 | 11 00 81 | 12 | 11 03 66 EN | 13 | 12 00 70 | 14 | 15 03 51 | 27 |
| 10 05 32 | 10 | 10 19 24 | 8 | 11 00 83 | 12 | 11 03 67 EN | 13 | 12 00 71 | 14 | 15 03 53 | 27 |
| 10 05 34 | 10 | 10 19 40 | 8 | 11 00 84 | 12 | 11 03 68 EN | 13 | 12 00 72 | 14 | 15 03 55 | 27 |
| 10 05 36 | 10 | 10 19 42 | 8 | 11 00 85 | 12 | 11 03 69 EN | 13 | 12 00 73 | 14 | 15 03 57 | 27 |
| 10 05 38 | 10 | 10 19 44 | 8 | 11 00 87 | 12 | 11 03 71 EN | 13 | 12 00 74 | 14 | 15 03 59 | 27 |
| 10 05 40 | 10 | 10 19 46 | 8 | 11 00 89 | 12 | 11 03 73 EN | 13 | 12 00 77 | 33 | 15 03 61 | 27 |
| 10 05 44 | 10 | 10 19 50 | 8 | 11 00 91 | 12 | 11 03 74 EN | 13 | 12 00 78 | 33 | 15 03 63 | 27 |
| 10 06 60 | 10 | 10 19 52 | 8 | 11 00 93 | 12 | 11 03 75 EN | 13 | 12 00 79 | 33 | 15 03 65 | 27 |
| 10 06 62 | 10 | 10 19 54 | 8 | 11 00 95 | 12 | 11 03 76 EN | 13 | 12 00 80 | 28 | 15 03 67 | 27 |
| 10 06 66 | 11 | 10 19 56 | 8 | 11 00 97 | 12 | 11 03 77 EN | 13 | 12 00 81 | 28 | 15 03 69 | 27 |
| 10 06 68 | 11 | 10 19 99 | 8 | 11 00 99 | 12 | 11 03 78 EN | 13 | 12 00 82 | 29 | 15 03 71 | 27 |
| 10 06 75 | 10 | 10 19 99PZ | 8 | 11 02 60 | 13 | 11 03 79 EN | 13 | 12 00 83 | 29 | 15 03 73 | 27 |
| 10 07 00 | 11 | 10 25 12 | 10 | 11 02 62 | 13 | 11 04 56 EN | 13 | 12 00 89 | 33 | 15 03 75 | 27 |
| 10 07 35 | 9 | 10 25 20 | 10 | 11 02 64 | 13 | 11 04 57 EN | 13 | 12 00 90 | 29 | 15 03 77 | 28 |
| 10 07 37 | 9 | 10 25 22 | 10 | 11 02 66 | 13 | 11 04 58 EN | 13 | 12 00 94 | 14 | 18 02 30 | 15 |
| 10 08 50 | 9 | 10 25 24 | 10 | 11 02 68 | 13 | 11 05 55 | 14 | 12 00 95 | 14 | 18 02 32 | 15 |
| 10 08 52 | 9 | 10 25 26 | 10 | 11 02 70 | 13 | 11 05 56 | 14 | 12 00 96 | 14 | 18 02 95 | 15 |
| 10 08 54 | 9 | 10 25 28 | 10 | 11 02 72 | 13 | 11 05 57 | 14 | 12 00 97 | 14 | 18 02 97 | 15 |
| 10 08 56 | 9 | 10 25 30 | 10 | 11 02 74 | 13 | 11 05 58 | 17 | 12 00 98 | 14 | 20 00 00 | 15 |
| 10 08 58 | 9 | 10 25 32 | 10 | 11 02 76 | 13 | 11 05 59 | 17 | 12 00 99 | 14 | 20 00 02 | 15 |
| 10 08 60 | 9 | 10 25 34 | 10 | 11 02 78 | 13 | 11 07 00 EN | 13 | 12 01 00 | 14 | 20 00 03 | 15 |
| 10 08 62 | 9 | 10 25 36 | 10 | 11 02 80 | 13 | 11 07 02 EN | 13 | 12 01 02 | 14 | 20 00 04 | 16 |
| 10 08 64 | 9 | 10 25 38 | 10 | 11 02 82 | 13 | 12 00 02 | 30 | 12 01 10 | 29 | 20 00 05 | 16 |
| 10 08 66 | 9 | 10 25 40 | 10 | 11 02 84 | 13 | 12 00 03 | 29 | 12 01 12 | 29 | 20 00 07 | 16 |
| 10 09 10 | 8 | 10 25 44 | 10 | 11 02 86 | 13 | 12 00 04 | 30 | 12 01 20 | 29 | 20 00 09 | 16 |
| 10 09 12 | 8 | 11 00 00 | 11 | 11 02 88 | 13 | 12 00 05 | 30 | 12 01 22 | 29 | 20 00 13 | 16 |
| 10 09 14 | 8 | 11 00 02 | 11 | 11 02 90 | 13 | 12 00 06 | 30 | 12 02 00 | 31 | 20 00 81 | 16 |
| 10 09 16 | 8 | 11 00 04 | 11 | 11 03 00 | 14 | 12 00 06 561 | 30 | 15 00 36 | 15 | 20 00 81/MK | 16 |
| 10 09 18 | 8 | 11 00 06 | 11 | 11 03 02 | 14 | 12 00 06 563 S | 30 | 15 00 37 | 15 | 20 01 09 | 17 |
| 10 09 20 | 8 | 11 00 08 | 11 | 11 03 04 | 14 | 12 00 06 564 S | 30 | 15 00 38 | 15 | 20 01 10 | 16 |
| 10 09 22 | 8 | 11 00 10 | 11 | 11 03 06 | 14 | 12 00 06 587 | 30 | 15 02 40 | 31 | 20 01 20 | 16 |
| 10 09 24 | 8 | 11 00 12 | 11 | 11 03 08 | 14 | 12 00 07 | 30 | 15 02 62 | 31 | 20 01 23 | 17 |
| 10 09 40 | 8 | 11 00 22 | 11 | 11 03 10 | 14 | 12 00 08 | 28 | 15 02 64 | 31 | 20 01 27 | 17 |
| 10 09 42 | 8 | 11 00 24 | 11 | 11 03 12 | 14 | 12 00 08/G | 28 | 15 02 66 | 31 | 20 01 28 | 17 |
| 10 09 44 | 8 | 11 00 26 | 11 | 11 03 14 | 14 | 12 00 08/R | 28 | 15 02 68 | 31 | 20 01 29 | 17 |
| 10 09 46 | 8 | 11 00 28 | 11 | 11 03 16 | 14 | 12 00 08/W | 28 | 15 02 70 | 31 | 20 01 30 | 16 |
| 10 09 50 | 9 | 11 00 30 | 11 | 11 03 18 | 14 | 12 00 10 | 28 | 15 02 74 | 31 | 20 01 32 | 16 |
| 10 09 52 | 9 | 11 00 32 | 11 | 11 03 20 | 14 | 12 00 12 | 30 | 15 02 75 | 32 | 20 01 41 | 16 |
| 10 09 54 | 9 | 11 00 34 | 11 | 11 03 22 | 14 | 12 00 14 | 30 | 15 02 76 | 32 | 20 01 47 | 16 |
| 10 09 56 | 9 | 11 00 36 | 11 | 11 03 24 | 14 | 12 00 15 | 30 | 15 02 77 | 32 | 20 01 49 | 15 |
| 10 09 98 | 9 | 11 00 39 | 11 | 11 03 31 EN | 12 | 12 00 16 | 30 | 15 02 78 | 32 | 21 00 56 | 17 |
| 10 09 98/PZ | 9 | 11 00 40 | 11 | 11 03 32 EN | 12 | 12 00 17 | 30 | 15 02 79 | 32 | 21 00 58 | 17 |
| 10 09 99 | 9 | 11 00 42 | 11 | 11 03 35 EN | 12 | 12 00 18 | 30 | 15 02 80 | 32 | 21 01 00 | 17 |
| 10 09 99/PZ | 9 | 11 00 44 | 11 | 11 03 36 EN | 12 | 12 00 20 | 28 | 15 02 86 | 32 | 21 01 02 | 17 |
| 10 10 52 | 9 | 11 00 46 | 11 | 11 03 37 EN | 12 | 12 00 22 | 28 | 15 02 88 | 32 | 21 01 10 | 18 |
| 10 10 54 | 9 | 11 00 48 | 11 | 11 03 38 EN | 12 | 12 00 30 | 31 | 15 03 00 | 28 | 21 02 63 | 20 |
| 10 10 56 | 9 | 11 00 50 | 11 | 11 03 39 EN | 12 | 12 00 31 | 31 | 15 03 00 | 28 | 21 02 64 | 20 |
| 10 18 50 | 8 | 11 00 52 | 11 | 11 03 40 EN | 12 | 12 00 40 | 30 | 15 03 02 | 30 | 21 02 65 | 19 |
| 10 18 52 | 8 | 11 00 54 | 11 | 11 03 42 EN | 12 | 12 00 42 | 30 | 15 03 04 | 30 | 21 02 66 | 20 |
| 10 18 54 | 8 | 11 00 56 | 12 | 11 03 44 EN | 12 | 12 00 44 | 30 | 15 03 06 | 30 | 21 02 67 | 20 |
| 10 18 56 | 8 | 11 00 58 | 12 | 11 03 46 EN | 12 | 12 00 46 | 30 | 15 03 08 | 30 | 21 02 70 | 18 |
| 10 18 58 | 8 | 11 00 60 | 11 | 11 03 48 EN | 12 | 12 00 48 | 30 | 15 03 10 | 30 | 21 02 96 | 18 |
| 10 18 60 | 8 | 11 00 62 | 11 | 11 03 50 EN | 12 | 12 00 49 | 32 | 15 03 12 | 30 | 21 02 97 | 20 |
| 10 18 62 | 8 | 11 00 64 | 11 | 11 03 52 EN | 12 | 12 00 50 | 32 | 15 03 14 | 30 | 21 02 98 | 20 |
| 10 18 64 | 8 | 11 00 65 | 12 | 11 03 54 EN | 12 | 12 00 52 | 18 | 15 03 16 | 30 | 21 02 99 | 20 |
| 10 18 66 | 8 | 11 00 66 | 12 | 11 03 56 EN | 12 | 12 00 57 | 32 | 15 03 18 | 30 | 21 03 00 | 20 |

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| 21 03 01 | 20 | | | | | | | | | | |
| 21 03 02 | 20 | | | | | | | | | | |
| 21 03 03 | 18 | | | | | | | | | | |
| 21 03 88 | 18 | | | | | | | | | | |
| 21 03 90 | 18 | | | | | | | | | | |
| 21 05 83 | 18 | | | | | | | | | | |
| 21 05 88 | 18 | | | | | | | | | | |
| 21 06 48 | 18 | | | | | | | | | | |
| 21 10 60 | 21 | | | | | | | | | | |
| 21 10 62 | 21 | | | | | | | | | | |
| 21 10 64 | 21 | | | | | | | | | | |
| 21 12 00 | 19 | | | | | | | | | | |
| 21 12 02 | 19 | | | | | | | | | | |
| 21 12 04 | 19 | | | | | | | | | | |
| 21 12 06 | 19 | | | | | | | | | | |
| 21 12 08 | 19 | | | | | | | | | | |
| 21 12 10 | 19 | | | | | | | | | | |
| 21 12 12 | 19 | | | | | | | | | | |
| 21 12 14 | 19 | | | | | | | | | | |
| 21 12 16 | 20 | | | | | | | | | | |
| 21 12 17 | 19 | | | | | | | | | | |
| 21 12 19 | 19 | | | | | | | | | | |
| 22 00 14 | 25 | | | | | | | | | | |
| 22 00 16 | 21 | | | | | | | | | | |
| 22 00 32 | 24 | | | | | | | | | | |
| 22 00 33 | 23 | | | | | | | | | | |
| 22 00 76 | 24 | | | | | | | | | | |
| 22 01 23 | 21 | | | | | | | | | | |
| 22 01 30 | 21 | | | | | | | | | | |
| 22 01 30 | 24 | | | | | | | | | | |
| 22 01 35 | 22 | | | | | | | | | | |
| 22 01 36 | 23 | | | | | | | | | | |
| 22 01 40 | 22 | | | | | | | | | | |
| 22 01 46 | 25 | | | | | | | | | | |
| 22 01 47 | 25 | | | | | | | | | | |
| 22 01 48 | 24 | | | | | | | | | | |
| 22 04 00 | 26 | | | | | | | | | | |
| 24 00 57 | 15 | | | | | | | | | | |
| 24 00 58 | 15 | | | | | | | | | | |
| 30 02 28 | 31 | | | | | | | | | | |
| 30 02 29 | 31 | | | | | | | | | | |
| 30 02 94 EN | 13 | | | | | | | | | | |
| 30 02 95 EN | 13 | | | | | | | | | | |
| 30 02 96 EN | 13 | | | | | | | | | | |
| 30 02 97 EN | 13 | | | | | | | | | | |
| 30 02 98 EN | 13 | | | | | | | | | | |
| 30 02 99 EN | 13 | | | | | | | | | | |
| 30 03 02 EN | 13 | | | | | | | | | | |
| 30 03 03 EN | 13 | | | | | | | | | | |
| 30 03 05 EN | 13 | | | | | | | | | | |
| 30 03 06 EN | 13 | | | | | | | | | | |
| 30 03 10 EN | 12 | | | | | | | | | | |
| 30 03 12 EN | 12 | | | | | | | | | | |

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