



Ausrüstung für Arbeiten unter Spannung  
bis 1 kV AC / 1,5 kV DC

Equipment for Live Working up to 1 kV AC / 1.5 kV DC



Zangen / Pliers

Kabelschneiden / Cable cutter

Kabelmesser / Cable knife

Abmantelungswerkzeuge / Cable stripping tool

Schraubendreher / Screwdriver

Steckschlüsseleinsätze / Sockets

Abdeckmaterial / Insulating material

Taschen / Tool bags

Zubehör / Accessory

the strong  
**Partner**  
for your  
**Safety**

# live-working tools

## low voltage

### pliers

#### combination pliers

- oil hardened steel, for hard wires
- high-frequency-hardened cutting edges
- chromed head
- handle PVC-insulated
- according to IEC 60900



#### 1000 V

Description	Material number
combination pliers, 165 mm, IEC 60900:2004	7101165
combination pliers, 180 mm, IEC 60900:2004	7101180
combination pliers, 205 mm, IEC 60900:2004	7101205
combination pliers, 250 mm, IEC 60900:2004	7101250

#### combination pliers, insulated head

- oil hardened steel, for hard wires
- coated head
- handle PVC-insulated
- according to IEC 60900



#### 1000 V

Description	Material number
combination pliers, 185 mm, insulated head, IEC 60900:2004	7131185
combination pliers, 205 mm, insulated head, IEC 60900:2004	7131205

#### combination pliers, GRP

- extra long cuttings
- gripping area with serration
- out of glass-fibre-strengthened plastic
- according to IEC 60900



#### 1000 V

Description	Material number
combination pliers, 185 mm, without cutting edge, GRP, IEC 60900:2004	7116204

## pliers insulating, NAKLEY

- special plier to open the cable sheating
- special head to grab the alu sheating
- gripping area with serration
- out of GRP
- according to IEC 60900



### 1000 V

Description	Material number
plier for NAKLEY-wires , 200 mm	7116205

## side cutter

- oil hardened steel
- high-frequency-hardened cutting edges
- chromed head for hard and soft wires
- handle PVC-insulated
- according to IEC 60900



### 1000 V

Description	Material number
side cutter, 160 mm, IEC 60900:2004	7104160
side cutter, 180 mm, IEC 60900:2004	7104180

## side cutter, insulated head

- oil hardened steel
- chromed head
- coated head
- handle PVC-insulated
- according to IEC 60900



### 1000 V

Description	Material number
side cutter, 160 mm, insulated head, IEC 60900:2004	7133160
side cutter, 180 mm, insulated head, IEC 60900:2004	7133180

## high leverage diagonal cutting pliers

- oil hardened steel
- cutting edge induction hardened
- chromed head for hard wires
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
high leverage diagonal cutting pliers, 180 mm, IEC 60900:2004	7105180
high leverage diagonal cutting pliers, 250 mm, IEC 60900:2004	7105250

## end cutter

- made of special steel
- for hard and soft wires
- chromed head
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
end cutter, 160 mm, IEC 60900:2004	7110160

## seal side cutter

- made of special steel
- changeable elements for leads
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
seal side cutter, 155 mm, IEC 60900:2004	7114155

## water pump pliers

- made of chrome vanadium steel with terminal protection
- anti-trap protection
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
water pump pliers, 240 mm, IEC 60900:2004	7111240

## round nose pliers

- oil hardened steel
- short, round jaws
- chromed head
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
round nose plier, 160 mm, IEC 60900:2004	7103160
Langbeck-round nose plier, 160 mm, IEC 60900:2004	7103161

## flat pliers

- oil hardened steel
- with short, strong jaws
- chromed head
- gripping surface ridged
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
flat pliers, 160 mm, IEC 60900:2004	7102160

## flat pliers, insulated head

- oil hardened steel
- with short, strong jaws
- gripping surface ridged
- coated head
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
flat pliers, 160 mm, insulated head, IEC 60900:2004	7113160

## longbeck flat pliers, insulated head

- oil hardened steel
- coated head
- handle PVC-insulated
- according to IEC 60900:2004



 **1000 V**

Description	Material number
Lanbeck-flat pliers, 160 mm, insulated head, IEC 60900:2004	7134160

## flat pliers, GRP

- gripping surface ridged
- slim head, particularly suitable for counter- or pmc-constructions
- out of glass-fibre-strengthened plastic
- without cutting edge
- according to IEC 60900



 **1000 V**

Description	Material number
flat pliers, 190 mm, GRP, IEC 60900:2004	7116201

## flat pliers, GRP, with cutting edge

- gripping surface ridged
- slim head, particularly suitable for counter- or pmc-constructions
- out of glass-fibre-strengthened plastic
- with cutting edge
- according to IEC 60900



 **1000 V**

Description	Material number
flat pliers, 190 mm, with cutting edge, GRP, IEC 60900:2004	7116200

## telephone pliers, straight jaws

- oil hardened steel,
- high-frequency-hardened cutting edges
- chromed head
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
telephone pliers, 170 mm, straight jaws, IEC 60900:2004	7106170
telephone pliers, 205 mm, straight jaws, IEC 60900:2004	7106205

## telephone pliers, insulated head

- oil hardened steel
- high-frequency-hardened cutting edges
- coated head
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
telephone pliers, 160 mm, insulated head, straight jaws, IEC 60900:2004	7115160
telephone pliers, 200 mm, insulated head, straight jaws, IEC 60900:2004	7115200

### telephone pliers, bended jaws

- oil hardened steel
- high-frequency-hardened cutting edges
- chromed head
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
telephone pliers, 205mm, bended jaws, IEC 60900:2004	7107205

### telephone pliers, insulated head, bended jaws

- oil hardened steel
- high-frequency-hardened cutting edges
- coated head
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
telephone pliers, 200 mm, insulated head, bended jaws, IEC 60900:2004	7138200

### duck bill pliers

- oil hardened steel
- high-frequency-hardened cutting edges
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
duck's bill pliers, 200 mm, IEC 60900:2004	7106300



## duck bill pliers, insulated head

- oil hardened steel
- high-frequency-hardened cutting edges
- coated head
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
duck's bill pliers, 200 mm, insulated head, IEC 60900:2004	7137200

## cable stripper pliers

- made of special steel
- with adjusting screw, till 10 mm<sup>2</sup> conductor section
- chromed head
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
cable stripper, 150 mm, IEC 60900:2004	7108150

## cable stripper pliers, insulated head

- made of special steel
- with adjusting screw, till 10 mm<sup>2</sup> conductor section
- coated head with adjusting screw
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
cable stripper, 160 mm, insulated head, IEC 60900:2004	7135160

## cable stripper pliers, self-regulating

- made of special steel for wires 0,5 - 5 mm diameter
- self-regulating
- can cut wires and strands up to 5 mm diameter
- according to IEC 60900



 **1000 V**

Description	Material number
cable stripper, 160 mm, self-regulating, IEC 60900:2004	7108160

## adjusting pliers

- Form A, B, C
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
adjusting pliers, 130 mm, type A, IEC 60900:2004	7112130A
adjusting pliers, 130 mm, type B, IEC 60900:2004	7112130B
adjusting pliers, 130 mm, type C, IEC 60900:2004	7112130C

## crimping pliers for ferrules

- for wire sections 0,35 mm<sup>2</sup> till 16 mm<sup>2</sup>
- for stamping of wire end ferrules
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
crimping pliers, 190 mm, for ferrules, IEC 60900:2004	7108170

## crimping pliers

- manual press for wire sections 6 - 185 mm<sup>2</sup>
  - PVC -insulated
  - handle nonslip
  - head is 360° rotatable
  - dies in trade group assembly tools
  - according to IEC 60900
- 
- suitcase available
  - case with recesses for crimping dies, 2 key locks, carry handle



 **1000 V**

Description	Material number
crimping pliers, 750 mm, IEC 60900:2004	7325185
case for insulated crimping pliers, 800 x 260 x 100 mm	7325186

## cable cutter

### single hand cable cutter, up to 35 mm<sup>2</sup>

- made of forged tool-steel (carbon steel)
- for cutting soft aluminium- or copper- multiwires
- unsuitable for steel-wire and hard-drawn Cu-wires
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
single-hand cable cutter, 160 mm, IEC 60900:2004	7109170

### single hand cable cutter, up to 35 mm<sup>2</sup>

- made of forged vanadium steel
- for cutting soft aluminium- or copper- multiwires
- not to be used for steel or hard drawn copper wires
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
single-hand cable cutter, 165 mm, IEC 60900:2004	7109171

### single hand cable cutter, up to 50 mm<sup>2</sup>

- made of forged tool-steel (carbon steel)
- for cutting soft, Alu- or copper- multiwires until 50 mm<sup>2</sup>
- unsuitable for steel-wire and hard-drawn Cu-wires
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
single-hand cable cutter, 215 mm, IEC 60900:2004	7109215

### single hand cable cutter, up to 50 mm<sup>2</sup>

- made of forged special steel
- less effort because of very good power transmission
- for cutting soft aluminium- or copper- single/multiwires
- unsuitable for steel-wire and hard-drawn Cu-wires
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
single-hand cable cutter, 200 mm, IEC 60900:2004	7109240

### single hand cable cutter, up to 70 mm<sup>2</sup>

- made of forged tool-steel (carbon steel)
- for cutting soft aluminium- or copper- single/multiwires
- for highest demands
- less effort
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
single-hand cable cutter, 240 mm, IEC 60900:2004	7109250

### electricians sissors

- made of tool-steel
- for cutting small sheet and wires
- only suitable for aluminium or copper
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
electrician sissors, 180 mm, IEC 60900:2004	7114160

## cable shears 505 mm

- made of forged vanadium steel
- less effort and clean cut
- adjustable pivot for cutting edge
- opening width 27 mm
- for cutting Alu- or copperwires up to 150 mm<sup>2</sup>
- unsuitable for steel-wire and hard-drawn Cu-wires
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
cable shears, 505 mm, up to 27 mm, IEC 60900:2004	7119505

## cable shears 600/800 mm

- made of special steel
- opening width ca. 40 mm (600 mm), ca. 60 mm (800 mm)
- for cutting Alu- or copperwires up to 250 mm<sup>2</sup> (600mm), 500 mm<sup>2</sup> (800 mm)
- head made of quenched and tempered steel for precision cut
- unsuitable for steel-wire and hard-drawn Cu-wires
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
cable shears, 600 mm, IEC 60900:2004	7119600
cable shears, 800 mm, IEC 60900:2004	7119800

## cable shears with lever transmission, 600 mm

- made of alloyed special steel
- less effort because of good leverage
- changeable head
- for aluminium or copper wires up to 150 / 185 mm<sup>2</sup>
- opening width 26 mm
- unsuitable for steel-wire and hard-drawn Cu-wires
- handle PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
cable shears, 600 mm, 150 mm <sup>2</sup> , IEC 60900:2004	7121600
spare head for cable shears, 600 mm, 150 mm <sup>2</sup> , IEC 60900:2004	7121601
storage bag for cable shears 600 mm	7121602

## wire rope and cable shear

- head made of quenched and tempered steel
- changeable head
- opening width ca. 20 mm
- for cutting Alu- or copperwires and overhead line wires up to 120 mm<sup>2</sup>
- handle PVC-insulated
- according to IEC 60900



### 1000 V

Description	Material number
wire-cable and cable-shears, 600mm, IEC 60900:2004	7120600
spare head for wire-cable and cable-shears 600mm	7120601

## ratchet cutter

- less effort
- less effort
- blades move in start position with spring return

cutting performance:

- length 290 mm: 185 mm<sup>2</sup> AL/ 150 mm<sup>2</sup> Cu, single wire
- length 300 mm: 240 mm<sup>2</sup> AL/ 240 mm<sup>2</sup> Cu, single wire

- cutting with cutting wedge possible
- not to be used for steel armored wires!
- handle and head PVC insulated
- according to IEC 60900

### 1000 V



Description	Material number
ratchet end cutter, 290 mm, IEC 60900:2004	7121290
ratchet end cutter, 300 mm, IEC 60900:2004	7121330

## hammer

### plastic hammer

- made of plastic
- striking surface (50 mm)
- PVC-insulated
- weight: 320 g
- according to IEC 60900



 **1000 V**

Description	Material number
plastic hammer, 50 mm, IEC 60900:2004	7130050

### soft face hammer

- blow-back proof
- changeable head
- PVC-insulated
- according to IEC 60900
- weight:  
600 g (25 mm)  
800 g (35 mm)



 **1000 V**

Description	Material number
soft face hammer, 25 mm, IEC 60900:2004	7122200
soft face hammer, 35 mm, IEC 60900:2004	7122300



**cable stripping knife**

- straight steel blade embedded in the hilt
- handle made of viscoplastic, shock resistant plastic
- length: 180 mm
- with blade-protection
- according to IEC 60900



 **1000 V**

Description	Material number
cable stripping knife, 200 mm, IEC 60900:2004	7124180

**cable stripping knife, partially insulated**

- straight partly insulated steel blade embedded in the hilt
- handle made of viscoplastic, shock resistant plastic
- length: 180 mm
- with blade-protection
- according to IEC 60900



 **1000 V**

Description	Material number
cable stripping knife, 200 mm, partially insulated, IEC 60900:2004	7127180

**stripping knife**

- steel-blade embedded in the hilt
- semicircular insulated blade
- handle made of viscoplastic, shock resistant plastic
- length: 160 mm
- with blade-protection
- according to IEC 60900



 **1000 V**

Description	Material number
cable stripping knife, 160mm, IEC 60900:2004	7126160

### cable dismantling knife

- steel-blade embedded in the hilt
- hook-shaped blade
- grip made of viscoplastic, shock resistant plastic
- length: 160 mm
- with blade-protection
- according to IEC 60900



 **1000 V**

Description	Material number
cable dismantling knife, 160 mm, IEC 60900:2004	7125160

### cable stripping knife with hooked blade

- steel-hook-blade included in the hilt
- handle made of viscoplastic, impact resistant plastic
- length: 170 mm
- with blade-protection
- according to IEC 60900



 **1000 V**

Description	Material number
cable stripping knife with hooked blade, 170 mm, IEC 60900:2004	7128170

### phase - cable stripping knife

- straight, small steel-blade included in the hilt
- handle made of viscoplastic, shock resistant plastic
- length: 170 mm
- with blade-protection
- according to IEC 60900

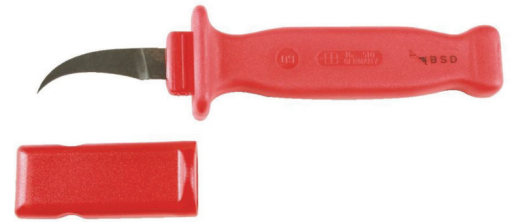


 **1000 V**

Description	Material number
phase - cable stripping knife, 170 mm, IEC 60900:2004	7129170

### cable stripping knife

- very sharp blade embedded in the hilt
- handle made of viscoplastic, shock resistant plastic
- with blade-protection
- according to IEC 60900



 **1000 V**

Description	Material number
cable stripping knife, 200 mm, IEC 60900:2004	7138050

### cable stripping knife, gutta percha

- strong, curved cutting edge embedded in the hilt
- handle made of viscoplastic, shock resistant plastic
- with blade-protection
- according to IEC 60900



 **1000 V**

Description	Material number
cable stripping knife, 200 mm, IEC 60900:2004	7139050

### cable stripping knife

- blade with short, angled cutting edge embedded in the hilt
- handle made of viscoplastic, shock resistant plastic
- with blade-protection
- according to IEC 60900



 **1000 V**

Description	Material number
cable stripping knife, 200 mm, IEC 60900:2004	7140045

### cable stripping knife with substitute blade

- straight, partly insulated blade
- blade made of hardened rust-free steel embedded in the hilt
- blade insulation and blade-protection made of shock resistant plastic
- fold-away blade-protection
- according to IEC 60900



 **1000 V**

Description	Material number
cable stripping knife, 190 mm, with exchangeable blade	7141300
substitute blade for cable stripping knife	7141301

### Cable knife with ceramic blade, straight, insulating

- straight blade made of ceramics
- fold-away blade-protection
- insulating cable knife
- according to IEC 60900



 **1000 V**

Description	Material number
insulating cable stripping knife, 180 mm, with ceramic blade, straight	7160300

# spanner

## open-ended spanner

- chrome-vanadium steel
- muzzle/mouth position 15°
- PVC-insulated
- according to IEC 60900



### 1000 V

Description	Material number
open-ended spanner, AF 5,5, IEC 60900:2004	7301055
open-ended spanner, AF 6, IEC 60900:2004	7301060
open-ended spanner, AF 7, IEC 60900:2004	7301070
open-ended spanner, AF 8, IEC 60900:2004	7301080
open-ended spanner, AF 9, IEC 60900:2004	7301090
open-ended spanner, AF 10, IEC 60900:2004	7301100
open-ended spanner, AF 11, IEC 60900:2004	7301110
open-ended spanner, AF 12, IEC 60900:2004	7301120
open-ended spanner, AF 13, IEC 60900:2004	7301130
open-ended spanner, AF 14, IEC 60900:2004	7301140
open-ended spanner, AF 15, IEC 60900:2004	7301150
open-ended spanner, AF 16, IEC 60900:2004	7301160
open-ended spanner, AF 17, IEC 60900:2004	7301170
open-ended spanner, AF 18, IEC 60900:2004	7301180
open-ended spanner, AF 19, IEC 60900:2004	7301190
open-ended spanner, AF 20, IEC 60900:2004	7301200
open-ended spanner, AF 21, IEC 60900:2004	7301210
open-ended spanner, AF 22, IEC 60900:2004	7301220
open-ended spanner, AF 24, IEC 60900:2004	7301240
open-ended spanner, AF 27, IEC 60900:2004	7301270
open-ended spanner, AF 30, IEC 60900:2004	7301300
open-ended spanner, AF 32, IEC 60900:2004	7301320
open-ended spanner, AF 34, IEC 60900:2004	7301340
open-ended spanner, AF 36, IEC 60900:2004	7301360

## ring spanner, cranked

- chrome-vanadium-steel
- PVC-insulated
- according to IEC 60900



### 1000 V

Description	Material number
ring spanner, AF 7, cranked, IEC 60900:2004	7302007
ring spanner, AF 8, cranked, IEC 60900:2004	7302008
ring spanner, AF 9, cranked, IEC 60900:2004	7302009
ring spanner, AF 10, cranked, IEC 60900:2004	7302100
ring spanner, AF 11, cranked, IEC 60900:2004	7302110
ring spanner, AF 12, cranked, IEC 60900:2004	7302120
ring spanner, AF 13, cranked, IEC 60900:2004	7302130
ring spanner, AF 14, cranked, IEC 60900:2004	7302140
ring spanner, AF 15, cranked, IEC 60900:2004	7302150
ring spanner, AF 16, cranked, IEC 60900:2004	7302160
ring spanner, AF 17, cranked, IEC 60900:2004	7302170
ring spanner, AF 18, cranked, IEC 60900:2004	7302180
ring spanner, AF 19, cranked, IEC 60900:2004	7302190
ring spanner, AF 20, cranked, IEC 60900:2004	7302200
ring spanner, AF 21, cranked, IEC 60900:2004	7302210
ring spanner, AF 22, cranked, IEC 60900:2004	7302220
ring spanner, AF 24, cranked, IEC 60900:2004	7302240
ring spanner, AF 27, cranked, IEC 60900:2004	7302270
ring spanner, AF 30, cranked, IEC 60900:2004	7302300
ring spanner, AF 32, cranked, IEC 60900:2004	7302320
ring spanner, AF 34, cranked, IEC 60900:2004	7302340
ring spanner, AF 36, cranked, IEC 60900:2004	7302360

## ratcheted ring spanner

- chrome-vanadium-steel
- change of direction
- PVC-insulated
- according to IEC 60900



### 1000 V

Description	Material number
ratchet ring spanner, AF 8, IEC 60900:2004	7302080
ratchet ring spanner, AF 9, IEC 60900:2004	7302090
ratchet ring spanner, AF 10, IEC 60900:2004	7302010
ratchet ring spanner, AF 11, IEC 60900:2004	7302011
ratchet ring spanner, AF 12, IEC 60900:2004	7302012
ratchet ring spanner, AF 13, IEC 60900:2004	7302013
ratchet ring spanner, AF 14, IEC 60900:2004	7302014
ratchet ring spanner, AF 15, IEC 60900:2004	7302015
ratchet ring spanner, AF 16, IEC 60900:2004	7302016
ratchet ring spanner, AF 17, IEC 60900:2004	7302017
ratchet ring spanner, AF 18, IEC 60900:2004	7302018
ratchet ring spanner, AF 19, IEC 60900:2004	7302019

## adjustable wrench

- chromed with scale
- PVC-insulated
- according to IEC 60900



### 1000 V

Description	Material number
adjustable spanner, 200 mm, chromed, IEC 60900:2004	7338200
adjustable spanner, 250 mm, chromed, IEC 60900:2004	7338250
adjustable spanner, 300 mm, chromed, IEC 60900:2004	7338300

## counterholder

- chrome-vanadium-steel
- 90° bent working part
- PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
counterholder, AF 10, 220 mm, IEC 60900:2004	7312100
counterholder, AF 12, 220 mm, IEC 60900:2004	7312120
counterholder, AF 13, 230 mm, IEC 60900:2004	7312130
counterholder, AF 14, 220 mm, IEC 60900:2004	7312140
counterholder, AF 15, 220 mm, IEC 60900:2004	7312150
counterholder, AF 16, 220 mm, IEC 60900:2004	7312160
counterholder, AF 17, 260 mm, IEC 60900:2004	7312170
counterholder, AF 18, 270 mm, IEC 60900:2004	7312180
counterholder, AF 19, 270 mm, IEC 60900:2004	7312190
counterholder, AF 20, 270 mm, IEC 60900:2004	7312200
counterholder, AF 22, 260 mm, IEC 60900:2004	7312220
counterholder, AF 24, 260 mm, IEC 60900:2004	7312240



## stripping tool

### cable stripping tool, insulated, 10 - 45 mm

Insulated stripping tool out of composite material for cutting and removing the cable-coat of LV- and MV-Cables

- cable diameter 10 - 45 mm
- complete insulated, for live working up to 1000 V AC / 1500 V DC
- for round-cut (3 blades) and longitudinal-cut (1 blade)
- blades are exchangeable and limiting the cutting-depth
- moveable blades for perfekt fitting to the cable circumference
- ergonomic, easy adaptable for left-hander
- anti-slide grips and compact construction
- blades with other cutting depths on request



 **1000 V**

Description	Material number
insulated stripping tool, 10 - 45 mm, DIN EN 60900 RC 1,6 /LC 1,8	7060020
insulated stripping tool, 10 - 45 mm, DIN EN 60900 RC 1,6 /LC 2,0	7060021
insulated stripping tool, 10 - 45 mm, DIN EN 60900 RC 1,6 /LC 2,2	7060022
spare blade 1,8 mm longitudinal-cut, reel-blade	7060024
spare blade 2,0 mm longitudinal-cut, reel-blade	7060025
spare blade 2,2 mm longitudinal-cut, reel-blade	7060026
spare-kit RC 2,6, 3 reel-blades and 1 notch-blade	7060023

### cable stripping tool, insulated, 20 - 54 mm

Insulated stripping tool out of composite material for cutting and removing the cable-coat of LV- and MV-Cables

- cable diameter 20 - 55 mm
- complete insulated, for live working up to 1000 V AC / 1500 V DC
- for round-cut (4 blades) and longitudinal-cut (1 blade)
- blades are exchangeable and limiting the cutting-depth
- moveable blades for perfekt fitting to the cable circumference
- ergonomic, easy adaptable for left-hander
- anti-slide grips and compact construction
- blades with other cutting depths on request



 **1000 V**

Description	Material number
insulated stripping tool, 20 - 54 mm, DIN EN 60900, RC 2,0 /LC 2,4 mm	7060006
insulated stripping tool, 20 - 54 mm, DIN EN 60900, RC 2,0 /LC 2,8 mm	7060007
insulated stripping tool, 20 - 54 mm, DIN EN 60900, RC 2,0 /LC 3,0 mm	7060013
spare blade 2,4 mm longitudinal-cut, reel-blade	7060027
spare blade 2,8 mm longitudinal-cut, reel-blade	7060028
spare blade 3,0 mm longitudinal-cut, reel-blade	7060029

## cable stripping tool, partially insulated

- for cable diameter from 20 mm up to 55 mm
- with 4 cutting wheels for round-cut (RC), 2 moveable
- 1 cutting wheel for longitudinal cut (LC)
- double beads to protect the blades
- double-joint and alignment of the blades allow to let go of the hand from the cable
- base body out of aluminium and stainless steel, handles are insulated
- certificated according to DIN EN 60900 for live working 1000 V
- cutting wheels with other depth of cut on request



 1000 V

Description	Material number
stripping tool, partially insulated, 20 - 54 mm, RC 2,0 mm / LC 2,5 mm	7060010
stripping tool, partially insulated, 20 - 54 mm, RC 2,0 mm / LC 2,8 mm	7060011
stripping tool, partially insulated, 20 - 54 mm, RC 2,4 mm/ LC 3,0 mm	7060014
spare-kit, 4 cutting wheels for RC (2,0 mm), 1 cutting wheel LC (2,5 mm)	7060008
spare-kit, 4 cutting wheels for RC (2,0 mm), 1 cutting wheel LC (2,8 mm)	7060009

## stripping tool, insulated

- to remove all insulation layers from cables, diameter from 25mm
- cutting dept adjustable from 0 - 5mm
- exchangeable double-blade (turning blade)
- suitable for straight and circular cut
- IEC 60900



 1000 V

Description	Material number
stripping tool, insulated, for diameter from 25 mm, IEC 60900:2004	7060180
substitute blade for cable stripping tool	8135171

## screwdriver

### slot screwdriver

- blade chrome-vanadium-molybdenum-steel, continuously-hardened, burnished
- on the blade directly squirted protective insulation
- power-form-handle
- according to IEC 60900



Description	Material number
slot screwdriver, 0,4 x 2,5 x 75 mm, IEC 60900:2004	7201025
slot screwdriver, 0,5 x 3,0 x 100 mm, IEC 60900:2004	7201030
slot screwdriver, 0,6 x 3,5 x 100 mm, IEC 60900:2004	7201035
slot screwdriver, 0,8 x 4,0 x 100 mm, IEC 60900:2004	7201040
slot screwdriver, 1,0 x 5,5 x 125 mm, IEC 60900:2004	7201055
slot screwdriver, 1,2 x 6,5 x 150 mm, IEC 60900:2004	7201065
slot screwdriver, 1,2 x 8,0 x 175 mm, IEC 60900:2004	7201080
slot screwdriver, 1,2 x 10,0 x 200 mm, IEC 60900:2004	7201100

### crossstip screwdriver

- blade chrome-vanadium-molybdenum-steel, continuously-hardened, burnished
- on the blade directly squirted protective insulation
- power-form-handle
- according to IEC 60900



Description	Material number
crossstip screwdriver PH 0, IEC 60900:2004	7202000
crossstip screwdriver PH 1, IEC 60900:2004	7202001
crossstip screwdriver PH 2, IEC 60900:2004	7202002
crossstip screwdriver PH 3, IEC 60900:2004	7202003
crossstip screwdriver PH 4, IEC 60900:2004	7202004

## crosstip screwdriver

- blade chrome-vanadium-molybdenum-steel, continuously-hardened, burnished
- on the blade directly squirted protective insulation
- power-form-handle
- according to IEC 60900



Description	Material number
crosstip screwdriver PZ 0, IEC 60900:2004	7214000
crosstip screwdriver PZ 1, IEC 60900:2004	7214001
crosstip screwdriver PZ 2, IEC 60900:2004	7214002
crosstip screwdriver PZ 3, IEC 60900:2004	7214003

## module screwdriver Pozidriv

- blade chrome-vanadium-molybdenum-steel, continuously-hardened, burnished
- on the blade directly squirted protective insulation
- power-form-handle
- according to IEC 60900



Description	Material number
module-screwdriver PZ 1 module, IEC 60900:2004	7217001
module-screwdriver PZ 2 module, IEC 60900:2004	7217002

## Torx screwdriver

- blade chrome-vanadium-molybdenum-steel, continuously-hardened, burnished
- on the blade directly squirted protective insulation
- power-form-handle
- according to IEC 60900



Description	Material number
Torx screwdriver TX 10, IEC 60900:2004	7216005
Torx screwdriver TX 15, IEC 60900:2004	7216006
Torx screwdriver TX 20, IEC 60900:2004	7216007
Torx screwdriver TX 25, IEC 60900:2004	7216008

## electronic screwdriver

- for slotted screws
- special-steel, burnished
- on the blade directly squirted protective insulation
- according to IEC 60900



### 1000 V

Description	Material number
electronic screwdriver, 0,3 x 1,5 x 40 mm, IEC 60900:2004	7211015
electronic screwdriver, 0,4 x 2,0 x 60 mm, IEC 60900:2004	7211020
electronic screwdriver, 0,4 x 2,5 x 75 mm, 160 mm, IEC 60900:2004	7211022
electronic screwdriver, 0,5 x 3,0 x 75 mm, IEC 60900:2004	7211030
electronic screwdriver, PH 00 x 40, 140 mm, IEC 60900:2004	7211034
electronic screwdriver, PH 0 x 60, 160 mm, IEC 60900:2004	7211035
electronic screwdriver, TX 5 140 mm, IEC 60900:2004	7211040
electronic screwdriver, TX 6 140 mm, IEC 60900:2004	7211041
electronic screwdriver, TX 7 140 mm, IEC 60900:2004	7211042
electronic screwdriver, TX 8 160 mm, IEC 60900:2004	7211043
electronic screwdriver, TX 9 160 mm, IEC 60900:2004	7211044
electronic screwdriver, TX 10 160 mm, IEC 60900:2004	7211045
electronic screwdriver, TX 15 160 mm, IEC 60900:2004	7211046

## hex offset screwdriver

- vanadium-steel, oil hardened
- PVC-insulated
- for hex screws
- according to IEC 60900



### 1000 V

Description	Material number
hex offset screwdriver, AF 3, IEC 60900:2004	7210030
hex offset screwdriver, AF 4, IEC 60900:2004	7210040
hex offset screwdriver, AF 5, IEC 60900:2004	7210050
hex offset screwdriver, AF 6, IEC 60900:2004	7210060
hex offset screwdriver, AF 7, IEC 60900:2004	7210070
hex offset screwdriver, AF 8, IEC 60900:2004	7210080
hex offset screwdriver, AF 10, IEC 60900:2004	7210100

## hexagon socket screwdriver

- blade chrome-vanadium-steel, continuously hardened, burnished
- on the blade directly squirted protective insulation
- with power-form-handle
- according to IEC 60900



Description	Material number
hexagon socket screwdriver, AF 3, IEC 60900:2004	7203030
hexagon socket screwdriver, AF 4, IEC 60900:2004	7203040
hexagon socket screwdriver, AF 5, IEC 60900:2004	7203050
hexagon socket screwdriver, AF 6, IEC 60900:2004	7203060
hexagon socket screwdriver, AF 8, IEC 60900:2004	7203080

## hexagon screwdriver, T-handhold, 95 mm

- hex key
- blade chrome-vanadium-steel, continuously hardened, burnished
- handle width 95 mm
- PVC-insulated
- according to IEC 60900



Description	Material number
hex screwdriver AF 4, L=120mm, T=95mm, IEC 60900:2004	7206042
hex screwdriver AF 5, L=120mm, T=95mm, IEC 60900:2004	7206052
hex screwdriver AF 6, L=120mm, T=95mm, IEC 60900:2004	7206062

## hexagon screwdriver, T-handhold, 95 mm

- hex key
- blade chrome-vanadium-steel, continuously hardened, burnished
- handle width 95 mm
- PVC-insulated
- according to IEC 60900



Description	Material number
hex screwdriver AF 4, L=160mm, T=95mm, IEC 60900:2004	7206040
hex screwdriver AF 5, L=160mm, T=95mm, IEC 60900:2004	7206050
hex screwdriver AF 6, L=160mm, T=95mm, IEC 60900:2004	7206060
hex screwdriver AF 8, L=160mm, T=95mm, IEC 60900:2004	7206080
hex screwdriver AF 10, L=200mm, T=160mm, IEC 60900:2004	7206100
hex screwdriver AF 10, L=240mm, T=160mm, IEC 60900:2004	7206101

## hexagon screwdriver, T-handhold, 65 mm

- hex key
- blade chrome-vanadium-steel, continuously hardened, burnished
- handle width 65 mm
- PVC-insulated
- according to IEC 60900



### 1000 V

Description	Material number
hex screwdriver AF 3, L=120mm, T=65mm, IEC 60900:2004	7206031
hex screwdriver AF 4, L=120mm, T=65mm, IEC 60900:2004	7206041
hex screwdriver AF 5, L=120mm, T=65mm, IEC 60900:2004	7206051
hex screwdriver AF 6, L=120mm, T=65mm, IEC 60900:2004	7206061

## hexagon socket wrench

- blade chrome-vanadium-steel, continuously hardened, burnished
- internal bore for protruding threaded rods
- on the blade direct squirted protective insulation
- with power-form-handle
- according to IEC 60900



### 1000 V

Description	Material number
hex socket wrench AF 4, IEC 60900:2004	7204040
hex socket wrench AF 5, IEC 60900:2004	7204050
hex socket wrench AF 5,5, IEC 60900:2004	7204055
hex socket wrench AF 6, IEC 60900:2004	7204060
hex socket wrench AF 7, IEC 60900:2004	7204070
hex socket wrench AF 8, IEC 60900:2004	7204080
hex socket wrench AF 9, IEC 60900:2004	7204090
hex socket wrench AF 10, IEC 60900:2004	7204100
hex socket wrench AF 11, IEC 60900:2004	7204110
hex socket wrench AF 12, IEC 60900:2004	7204120
hex socket wrench AF 13, IEC 60900:2004	7204130
hex socket wrench AF 14, IEC 60900:2004	7204140
hex socket wrench AF 15, IEC 60900:2004	7204150
hex socket wrench AF 16, IEC 60900:2004	7204160
hex socket wrench AF 17, IEC 60900:2004	7204170

## wing nut wrench, insulated

- to loosen wing nut keys at counter armatures
- chrome-vanadium-steel
- on the blade direct squirted protective insulation
- power-form-handle
- according to IEC 60900



 1000 V

Description	Material number
wing nut wrench, 145 mm, insulated, IEC 60900:2004	7215000

## torque screwdriver

- continuously variable adjustable torque with gauge in a windowed scale
- clicking-signal by reaching the adjusted torque
- for controlled screwing in the field of voltage-leading parts up to 1000 V
- without blade
- different blades are available
- blades out of high-quality chrome-vanadium-molybden-steel
- delivery in plastic boxes
- insulation directly squirted on the blade
- according to IEC 60900



 1000 V  

Description	Material number
torque screwdriver, 0,6 - 2 Nm, blades exchangeable, IEC 60900:2004	7358100
torque screwdriver, 1 - 5 Nm, blades exchangeable, IEC 60900:2004	7358000
torque screwdriver, 2 - 8 Nm, blades exchangeable, IEC 60900:2004	7358200
bit-holder for torque screwdriver, Slim-Bits, IEC 60900:2012	7358050
screwdriver for Slim-blades, blades are exchangeable, IEC 60900:2012	7358250
exchangeable "Slim" blade for torque, slot 2,5	7358101
exchangeable "Slim" blade for torque, slot 3,0	7358102
exchangeable "Slim" blade for torque, slot 4,0	7358103
exchangeable "Slim" blade for torque, slot 5,5	7358104
exchangeable "Slim" blade for torque, slot 6,5	7358105
exchangeable "Slim" blade for torque, PH 1	7358106
exchangeable "Slim" blade for torque, PH 2	7358107
exchangeable "Slim" blade for torque, PZ 1	7358108
exchangeable "Slim" blade for torque, PZ 2	7358109
exchangeable "Slim" blade for torque, Torx T8	7358110
exchangeable "Slim" blade for torque, Torx T10	7358111
exchangeable "Slim" blade for torque, Torx T15	7358112
exchangeable "Slim" blade for torque, Torx T20	7358113
exchangeable "Slim" blade for torque, Torx T25	7358114
exchangeable "Slim" blade for torque, PZ1 Xeno	7358115
exchangeable "Slim" blade for torque, PZ2 Xeno	7358116
exchangeable "Slim" blade for torque, hex AF 2,5	7358117
exchangeable "Slim" blade for torque, hex AF 3	7358118
exchangeable "Slim" blade for torque, hex AF 4	7358119
exchangeable "Slim" blade for torque, hex AF 5	7358120
exchangeable "Slim" blade for torque, hex AF 6	7358121



## cordless screwdriver

Is suited for live working (1000 V) in connection with our insulated and electrical separated bits or insulated socket wrenchs .

- compact construction and low weight
  - max torsional moment 4,4 Nm
  - automatic stop-coupling
  - LED-auxiliary lights
  - Li-Ions accumulator
  - charging time: 15 min
- 
- insulated bits
  - galvanically separated
  - length: 115 cm



**1000 V**

Description	Material number
ISO Bit 0,6 x 3,5	7358151
ISO Bit 0,8 x 4,0	7358152
ISO Bit 1,0 x 5,5	7358153
ISO Bit 1,2 x 6,5	7358154
ISO Bit PZ 1	7358155
ISO Bit PZ 2	7358156
ISO Bit PH 1	7358157
ISO Bit PH 2	7358158
ISO Bit PZ 1 +/-	7358159
ISO Bit PZ 2 +/-	7358160
ISO Bit Torx 10	7358161
ISO Bit Torx 15	7358162
ISO Bit Torx 20	7358163
ISO socket wrench, AF 8, 70 mm, 12 Nm	7358164
ISO socket wrench, AF 9, 70 mm, 14 Nm	7358165
ISO socket wrench, AF 10, 70 mm, 16 Nm	7358166
ISO socket wrench, AF 8, 168 mm, 12 Nm	7358167
ISO socket wrench, AF 9, 168 mm, 14 Nm	7358168
ISO socket wrench, AF 10, 168 mm, 16 Nm	7358169
cordless screwdriver for ISO Bits	7358300
charging device for cordless screwdriver	7358301

## sockets

- Chrome vanadium steel, forged, oil-hardened
- with 1/4" square drive
- Hexagon spanner widths
- PVC - dip-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
Wrench socket 1/4", SW 4, IEC 60900	7307004
Wrench socket 1/4", SW 5, IEC 60900	7307005
Wrench socket 1/4", SW 6, IEC 60900	7307006
Wrench socket 1/4", SW 7, IEC 60900	7307007
Wrench socket 1/4", SW 8, IEC 60900	7307008
Wrench socket 1/4", SW 9, IEC 60900	7307009
Wrench socket 1/4", SW 10, IEC 60900	7307010
Wrench socket 1/4", SW 11, IEC 60900	7307011
Wrench socket 1/4", SW 12, IEC 60900	7307012
Wrench socket 1/4", SW 13, IEC 60900	7307013
Wrench socket 1/4", SW 14, IEC 60900	7307014

### wrench socket 1/4" (long)

- Chrome vanadium steel, forged, oil-hardened
- with 1/4" square drive
- Hexagon spanner widths
- PVC - dip-insulated
- according to IEC 60900
- length 50mm



 **1000 V**

Description	Material number
Wrench socket 1/4", SW 4, long, IEC 60900	7317004
Wrench socket 1/4", SW , long, IEC 60900	7317005
Wrench socket 1/4", SW 6, long, IEC 60900	7317006
Wrench socket 1/4", SW 7, long, IEC 60900	7317007
Wrench socket 1/4", SW 8, long, IEC 60900	7317008
Wrench socket 1/4", SW 9, long, IEC 60900	7317009
Wrench socket 1/4", SW 10, long, IEC 60900	7317010
Wrench socket 1/4", SW 11, long, IEC 60900	7317011
Wrench socket 1/4", SW 12, long, IEC 60900	7317012
Wrench socket 1/4", SW 13, long, IEC 60900	7317013
Wrench socket 1/4", SW 14, long, IEC 60900	7317014

## internal hex socket 1/4"

- Chrome vanadium steel, oil-hardened
- with 1/4" square drive
- PVC - dip-insulated
- according to IEC 60900



### 1000 V

Description	Material number
internal hex socket 1/4", SW 3, IEC 60900	7337003
internal hex socket 1/4", SW 4, IEC 60900	7337004
internal hex socket 1/4", SW 5, IEC 60900	7337005
internal hex socket 1/4", SW 6, IEC 60900	7337006
internal hex socket 1/4", SW 8, IEC 60900	7337008

## Torx-insert 1/4"

- Chrome vanadium steel, oil-hardened
- with 1/4" square drive
- PVC - dip-insulated
- according to IEC 60900
- length 45mm



### 1000 V

Description	Material number
Torx insert 1/4", TX8, IEC 60900	7327008
Torx insert 1/4", TX10, IEC 60900	7327010
Torx insert 1/4", TX15, IEC 60900	7327015
Torx insert 1/4", TX20, IEC 60900	7327020
Torx insert 1/4", TX25, IEC 60900	7327025
Torx insert 1/4", TX27, IEC 60900	7327027
Torx insert 1/4", TX30, IEC 60900	7327030

## Bit holding adapter 1/4"

- Fully insulated
- with 1/4" square drive
- according to IEC 60900
- Form C 6,3



### 1000 V

Description	Material number
Bit holder adapter 1/4", fully insulated, IEC 60900	7307000

## extension 1/4"

- with frictional locking on the square
- against unintentional release of the inserts
- Chrome vanadium steel, forged
- PVC - dip-insulated
- according to IEC 60900

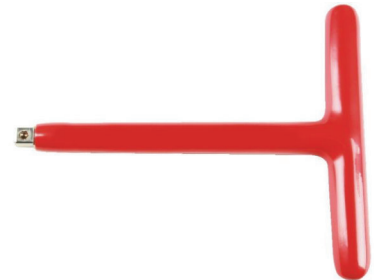


## 1000 V

Description	Material number
Extension 1/4", 50 mm, IEC 60900	7307050
Extension 1/4", 75 mm, IEC 60900	7307075
Extension 1/4", 105 mm, IEC 60900	7307100
Extension 1/4", 150 mm, IEC 60900	7307150

## T socket wrench 1/4"

- Chrome vanadium steel, forged
- with frictional locking on the square
- PVC - dip-insulated
- according to IEC 60900



## 1000 V

Description	Material number
T socket wrench 1/4", 160 mm, IEC 60900	7307160

## reversible ratchet 1/4"

- Chrome vanadium steel, forged
- switchable for right and left operation
- simple locking of the operating tools
- non-positive locking on the drive square
- PVC - dip-insulated
- according to IEC 60900



## 1000 V

Description	Material number
reversible ratchet 1/4", 140 mm, IEC 60900	7308300

## wrench socket 3/8"

- chrome-vanadium-steel, forged, oil hardened
- with 3/8" square drive
- double hex width across flats
- length: 45 mm
- PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
wrench socket 3/8 inch, AF 6, IEC 60900:2004	7319060
wrench socket 3/8 inch, AF 7, IEC 60900:2004	7319070
wrench socket 3/8 inch, AF 8, IEC 60900:2004	7319080
wrench socket 3/8 inch, AF 9, IEC 60900:2004	7319090
wrench socket 3/8 inch, AF 10, IEC 60900:2004	7319100
wrench socket 3/8 inch, AF 11, IEC 60900:2004	7319110
wrench socket 3/8 inch, AF 12, IEC 60900:2004	7319120
wrench socket 3/8 inch, AF 13, IEC 60900:2004	7319130
wrench socket 3/8 inch, AF 14, IEC 60900:2004	7319140
wrench socket 3/8 inch, AF 15, IEC 60900:2004	7319150
wrench socket 3/8 inch, AF 16, IEC 60900:2004	7319160
wrench socket 3/8 inch, AF 17, IEC 60900:2004	7319170
wrench socket 3/8 inch, AF 18, IEC 60900:2004	7319180
wrench socket 3/8 inch, AF 19, IEC 60900:2004	7319190
wrench socket 3/8 inch, AF 20, IEC 60900:2004	7319200
wrench socket 3/8 inch, AF 21, IEC 60900:2004	7319210
wrench socket 3/8 inch, AF 22, IEC 60900:2004	7319220
wrench socket 3/8 inch, AF 24, IEC 60900:2004	7319240

## wrench socket 3/8" (long), 55 - 65 mm

- chrome-vanadium-steel, forged, oil hardened
- with 3/8" square drive
- double hex width across flats
- length: 55 - 65 mm
- PVC-insulated
- according to IEC 60900



 1000 V

Description	Material number
wrench socket 3/8 inch, AF 10, extended, IEC 60900:2004	7320100
wrench socket 3/8 inch, AF 11, extended, IEC 60900:2004	7320110
wrench socket 3/8 inch, AF 12, extended, IEC 60900:2004	7320120
wrench socket 3/8 inch, AF 13, extended, IEC 60900:2004	7320130
wrench socket 3/8 inch, AF 14, extended, IEC 60900:2004	7320140
wrench socket 3/8 inch, AF 15, extended, IEC 60900:2004	7320150
wrench socket 3/8 inch, AF 16, extended, IEC 60900:2004	7320160
wrench socket 3/8 inch, AF 17, extended, IEC 60900:2004	7320170
wrench socket 3/8 inch, AF 18, extended, IEC 60900:2004	7320180
wrench socket 3/8 inch, AF 19, extended, IEC 60900:2004	7320190
wrench socket 3/8 inch, AF 22, extended, IEC 60900:2004	7320220

## wrench socket 3/8" (extra long), 125 mm

- chrome-vanadium-steel, forged, oil hardened
- with 3/8" square drive
- double hex width across flats
- length: 125 mm
- PVC-insulated
- according to IEC 60900



 1000 V

Description	Material number
wrench socket 3/8 inch, AF 10, extra long, IEC 60900:2004	7333010
wrench socket 3/8 inch, AF 11, extra long, IEC 60900:2004	7333011
wrench socket 3/8 inch, AF 12, extra long, IEC 60900:2004	7333012
wrench socket 3/8 inch, AF 13, extra long, IEC 60900:2004	7333013
wrench socket 3/8 inch, AF 14, extra long, IEC 60900:2004	7333014
wrench socket 3/8 inch, AF 17, extra long, IEC 60900:2004	7333017
wrench socket 3/8 inch, AF 19, extra long, IEC 60900:2004	7333019
wrench socket 3/8 inch, AF 22, extra long, IEC 60900:2004	7333022

## wrench socket 3/8" with magnetic holding function

- with holding function to prevent screw dropping into the installation
- chrome-vanadium steel, forged, oil hardened
- with 3/8" square drive
- double hex width across flats
- length 45 - 55 mm
- PVC-insulated
- according to IEC 60900
- care for worker with cardiac pacemaker



### 1000 V

Description	Material number
wrench socket 3/8 inch, AF 13, magnetic, IEC 60900:2004	7321130
wrench socket 3/8 inch, AF 17, magnetic, IEC 60900:2004	7321170
wrench socket 3/8 inch, AF 19, magnetic, IEC 60900:2004	7321190

## wrench socket 3/8" (long) with magnetic holding function

- with holding function to prevent screw dropping into the installation
- chrome-vanadium steel, forged, oil hardened
- with 3/8" square drive
- double hex width across flats
- length 55 - 65 mm
- PVC-insulated
- according to IEC 60900
- care for worker with cardiac pacemaker



### 1000 V

Description	Material number
wrench socket 3/8 inch, AF 13, magnetic, long, IEC 60900:2004	7322130
wrench socket 3/8 inch, AF 17, magnetic, long, IEC 60900:2004	7322170
wrench socket 3/8 inch, AF 19, magnetic, long, IEC 60900:2004	7322190

## internal hex socket 80 mm 3/8"

- chrome-vanadium-steel, forged, oil hardened
- with 3/8" square drive
- PVC-insulated
- according to IEC 60900



### 1000 V

Description	Material number
internal hex wrench socket 3/8 inch, AF 3, IEC 60900:2004	7324030
internal hex wrench socket 3/8 inch, AF 4, IEC 60900:2004	7324040
internal hex wrench socket 3/8 inch, AF 5, IEC 60900:2004	7324050
internal hex wrench socket 3/8 inch, AF 6, IEC 60900:2004	7324060
internal hex wrench socket 3/8 inch, AF 8, IEC 60900:2004	7324080
internal hex wrench socket 3/8 inch, AF 10, IEC 60900:2004	7324100

## internal hex socket 100 mm 3/8"

- chrome-vanadium-steel, forged, oil hardened
- with 3/8" square drive
- PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
internal hex wrench socket 3/8 inch, AF 4, IEC 60900:2004	7334004
internal hex wrench socket 3/8 inch, AF 5, IEC 60900:2004	7334005
internal hex wrench socket 3/8 inch, AF 6, IEC 60900:2004	7334006
internal hex wrench socket 3/8 inch, AF 8, IEC 60900:2004	7334008
internal hex wrench socket 3/8 inch, AF 10, IEC 60900:2004	7334010
internal hex wrench socket 3/8 inch, AF 12, IEC 60900:2004	7334012

## internal hex socket 250 mm 3/8"

- chrome-vanadium-steel, forged, oil hardened
- with 3/8" square drive
- PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
internal hex wrench socket 3/8 inch, AF 5, IEC 60900:2004	7339005
internal hex wrench socket 3/8 inch, AF 6, IEC 60900:2004	7339006
internal hex wrench socket 3/8 inch, AF 8, IEC 60900:2004	7339008
internal hex wrench socket 3/8 inch, AF 10, IEC 60900:2004	7339010

## extension 3/8"

- with force-fit locking at square against unwanted loosen of the sockets
- chrome-vanadium-steel, forged
- PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
extension 3/8 inch, 125 mm, IEC 60900:2004	7321125
extension 3/8 inch, 250 mm, IEC 60900:2004	7321250



## extension 3/8", lockable

- chrome-vanadium-steel, forged
- with tension-closable locking at four-sided against unwanted loosen sockets
- PVC-insulated
- according to IEC 60900

attend to sequenz:

- push first the inset on the extension, then attach the operation tool

- suitable for all insets



## 1000 V

Description	Material number
extension 3/8 inch, 250 mm, lockable, IEC 60900:2004	7322250
extension 3/8 inch, 125 mm, lockable, IEC 60900:2004	7322125

## T socket wrench 3/8"

- chrome-vanadium-steel, forged
- with tension-closable locking at four-sided-square
- PVC-isolated
- according to IEC 60900



## 1000 V

Description	Material number
T socket wrench 3/8 inch, 160 mm, IEC 60900:2004	7322160

## reversible ratchet 3/8"

- chrome-vanadium-steel, forged
- reversible right- and left-drive
- simple locking of the attachment tools
- force-fit locking at square
- PVC-insulated
- according to IEC 60900



## 1000 V

Description	Material number
reversible ratchet 3/8 inch, 200 mm, IEC 60900:2004	7308201

## reversible ratchet 3/8", press locking

- chrome-vanadium-steel, forged, oil-hardened
- reversible right- and left-drive
- with special pressure locking system against unwanted loosen of insets
- PVC-insulated
- according to IEC 60900



 1000 V

Description	Material number
reversible ratchet 3/8 inch, 200 mm, press locking, IEC 60900:2004	7308251

## torque wrench 3/8"

- with integrated ratched
- right or left operation
- strengthened plastic insulation
- weight: 780g
- according to IEC 60900



 1000 V

Description	Material number
torque wrench 3/8 inch, 5-50 Nm, length: 370 mm, IEC 60900, 4% tolerance	7318372
plastic case for torque wrench, 408 x 160 x 153 mm	7520000

## reducing adapter 1/2" > 3/8"

- chrome-vanadium-steel, forged
- without locking device
- PVC-insulated
- according to IEC 60900



 1000 V

Description	Material number
reducing adaptor 1/2 inch > 3/8 inch, IEC 60900:2004	7317000

## enlargement adapter 3/8" > 1/2"

- chrome-vanadium-steel, forged
- without locking device
- PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
enlargement adaptor 3/8 inch > 1/2 inch, IEC 60900:2004	7316000

## wrench socket 1/2"

- chrome-vanadium-steel, forged, oil hardened
- with 1/2" square drive
- hex width across flats
- PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
wrench socket 1/2 inch, AF 7, IEC 60900:2004	7303070
wrench socket 1/2 inch, AF 8, IEC 60900:2004	7303080
wrench socket 1/2 inch, AF 9, IEC 60900:2004	7303090
wrench socket 1/2 inch, AF 10, IEC 60900:2004	7303100
wrench socket 1/2 inch, AF 11, IEC 60900:2004	7303110
wrench socket 1/2 inch, AF 12, IEC 60900:2004	7303120
wrench socket 1/2 inch, AF 13, IEC 60900:2004	7303130
wrench socket 1/2 inch, AF 14, IEC 60900:2004	7303140
wrench socket 1/2 inch, AF 15, IEC 60900:2004	7303150
wrench socket 1/2 inch, AF 16, IEC 60900:2004	7303160
wrench socket 1/2 inch, AF 17, IEC 60900:2004	7303170
wrench socket 1/2 inch, AF 18, IEC 60900:2004	7303180
wrench socket 1/2 inch, AF 19, IEC 60900:2004	7303190
wrench socket 1/2 inch, AF 20, IEC 60900:2004	7303200
wrench socket 1/2 inch, AF 21, IEC 60900:2004	7303210
wrench socket 1/2 inch, AF 22, IEC 60900:2004	7303220
wrench socket 1/2 inch, AF 23, IEC 60900:2004	7303230
wrench socket 1/2 inch, AF 24, IEC 60900:2004	7303240
wrench socket 1/2 inch, AF 26, IEC 60900:2004	7303260
wrench socket 1/2 inch, AF 27, IEC 60900:2004	7303270
wrench socket 1/2 inch, AF 28, IEC 60900:2004	7303280
wrench socket 1/2 inch, AF 30, IEC 60900:2004	7303300
wrench socket 1/2 inch, AF 32, IEC 60900:2004	7303320
wrench socket 1/2 inch, AF 34, IEC 60900:2004	7303340
wrench socket 1/2 inch, AF 36, IEC 60900:2004	7303360

## wrench socket 1/2" (long), 80 mm

- chrome-vanadium-steel, forged, oil hardened
- with 1/2" square drive
- hex width across flats
- length: 80 mm
- PVC-insulated
- according to IEC 60900



 1000 V

Description	Material number
wrench socket 1/2 inch, AF 10, extended, IEC 60900:2004	7304100
wrench socket 1/2 inch, AF 11, extended, IEC 60900:2004	7304110
wrench socket 1/2 inch, AF 12, extended, IEC 60900:2004	7304120
wrench socket 1/2 inch, AF 13, extended, IEC 60900:2004	7304130
wrench socket 1/2 inch, AF 14, extended, IEC 60900:2004	7304140
wrench socket 1/2 inch, AF 15, extended, IEC 60900:2004	7304150
wrench socket 1/2 inch, AF 16, extended, IEC 60900:2004	7304160
wrench socket 1/2 inch, AF 17, extended, IEC 60900:2004	7304170
wrench socket 1/2 inch, AF 18, extended, IEC 60900:2004	7304180
wrench socket 1/2 inch, AF 19, extended, IEC 60900:2004	7304190
wrench socket 1/2 inch, AF 21, extended, IEC 60900:2004	7304210
wrench socket 1/2 inch, AF 22, extended, IEC 60900:2004	7304220
wrench socket 1/2 inch, AF 23, extended, IEC 60900:2004	7304230
wrench socket 1/2 inch, AF 24, extended, IEC 60900:2004	7304240
wrench socket 1/2 inch, AF 27, extended, IEC 60900:2004	7304270
wrench socket 1/2 inch, AF 30, extended, IEC 60900:2004	7304300
wrench socket 1/2 inch, AF 32, extended, IEC 60900:2004	7304320

## wrench socket 1/2" (extra long), 125 mm

- chrome-vanadium-steel, forged, oil hardened
- with 1/2" square drive
- hex width across flats
- length: 125 mm
- PVC-insulated
- according to IEC 60900



 1000 V

Description	Material number
wrench socket 1/2 inch, AF 13, extra long, IEC 60900:2004	7328013
wrench socket 1/2 inch, AF 14, extra long, IEC 60900:2004	7328014
wrench socket 1/2 inch, AF 17, extra long, IEC 60900:2004	7328017
wrench socket 1/2 inch, AF 19, extra long, IEC 60900:2004	7328019
wrench socket 1/2 inch, AF 22, extra long, IEC 60900:2004	7328022
wrench socket 1/2 inch, AF 24, extra long, IEC 60900:2004	7328024
wrench socket 1/2 inch, AF 27, extra long, IEC 60900:2004	7328027
wrench socket 1/2 inch, AF 30, extra long, IEC 60900:2004	7328030
wrench socket 1/2 inch, AF 32, extra long, IEC 60900:2004	7328032

## wrench socket 1/2", (extra long), 250 mm

- chrome-vanadium-steel, forged, oil hardened
- with 1/2" square drive
- hex width across flats
- length: 250 mm
- PVC-insulated
- according to IEC 60900



## 1000 V

Description	Material number
wrench socket 1/2 inch, AF 13, extra long, IEC 60900:2004	7329013
wrench socket 1/2 inch, AF 14, extra long, IEC 60900:2004	7329014
wrench socket 1/2 inch, AF 17, extra long, IEC 60900:2004	7329017
wrench socket 1/2 inch, AF 19, extra long, IEC 60900:2004	7329019
wrench socket 1/2 inch, AF 22, extra long, IEC 60900:2004	7329022

## wrench socket 1/2" with magnetic holding function

- with holding function to prevent screw dropping into the installation
- chrome-vanadium steel, forged, oil hardened
- hex box spanner size
- length 55 - 65 mm
- PVC-insulated
- according to IEC 60900
- care for worker with cardiac pacemaker



## 1000 V

Description	Material number
wrench socket 1/2 inch, AF 13, magnetic, IEC 60900:2004	7323130
wrench socket 1/2 inch, AF 17, magnetic, IEC 60900:2004	7323170
wrench socket 1/2 inch, AF 19, magnetic, IEC 60900:2004	7323190

## wrench socket 1/2" (long) with magnetic holding function

- with holding function to prevent screw dropping into the installation
- chrome-vanadium steel, forged, oil hardened
- hex box spanner size
- length 80 mm
- PVC-insulated
- according to IEC 60900
- care for worker with cardiac pacemaker



## 1000 V

Description	Material number
wrench socket 1/2 inch, AF 13, magnetic, long, IEC 60900:2004	7324130
wrench socket 1/2 inch, AF 17, magnetic, long, IEC 60900:2004	7324170
wrench socket 1/2 inch, AF 19, magnetic, long, IEC 60900:2004	7324190

## internal hex socket 80 mm 1/2"

- with 1/2" square drive
- chrome-vanadium-steel, forged, oil hardened
- overlapping PVC-insulation
- according to IEC 60900



### 1000 V

Description	Material number
internal hex wrench socket, 1/2 inch, AF 4, IEC 60900:2004	7305040
internal hex wrench socket, 1/2 inch, AF 5, IEC 60900:2004	7305050
internal hex wrench socket, 1/2 inch, AF 6, IEC 60900:2004	7305060
internal hex wrench socket, 1/2 inch, AF 8, IEC 60900:2004	7305080
internal hex wrench socket, 1/2 inch, AF 10, IEC 60900:2004	7305100

## internal hex socket 100 mm 1/2"

- with 1/2" square drive
- chrome-vanadium-steel, forged, oil hardened
- overlapping PVC-insulation
- according to IEC 60900



### 1000 V

Description	Material number
internal hex wrench socket, 1/2 inch, AF 5, IEC 60900:2004	7331005
internal hex wrench socket, 1/2 inch, AF 6, IEC 60900:2004	7331006
internal hex wrench socket, 1/2 inch, AF 8, IEC 60900:2004	7331008
internal hex wrench socket, 1/2 inch, AF 10, IEC 60900:2004	7331010
internal hex wrench socket, 1/2 inch, AF 12, IEC 60900:2004	7331012

## internal hex socket 250 mm 1/2"

- with 1/2" square drive
- chrome-vanadium-steel, forged, oil hardened
- overlapping PVC-insulation
- according to IEC 60900



### 1000 V

Description	Material number
internal hex wrench socket, 1/2 inch, AF 5, IEC 60900:2004	7331050
internal hex wrench socket, 1/2 inch, AF 6, IEC 60900:2004	7331060
internal hex wrench socket, 1/2 inch, AF 8, IEC 60900:2004	7331080
internal hex wrench socket, 1/2 inch, AF 10, IEC 60900:2004	7331100

## extension 1/2"

- with force-fit locking at square against unwanted loosen of the sockets
- chrome-vanadium-steel, forged
- PVC-insulated
- according to IEC 60900



## 1000 V

Description	Material number
extension 1/2 inch, 125 mm, IEC 60900:2004	7306125
extension 1/2 inch, 250 mm, IEC 60900:2004	7306250

## extension 1/2", lockable

- chrome-vanadium-steel, forged
- sockets attached via spreading the balls
- automatic locking through attach attachment-tool
- PVC-insulated
- according to IEC 60900

attend to sequenz:

- push first the inset on the extension, then attach the attachment-tool

- suitable for all insets



## 1000 V

Description	Material number
extension 1/2 inch, 125 mm, lockable, IEC 60900:2004	7306126
extension 1/2 inch, 250 mm, lockable, IEC 60900:2004	7306251

## T socket wrench 1/2"

- chrome-vanadium-steel, forged
- with force-fit locking at square
- PVC-insulated
- according to IEC 60900



## 1000 V

Description	Material number
T-socket wrench 1/2 inch, 160 mm, IEC 60900:2004	7311160

## offset socket wrench 1/2"

- chrome-vanadium-steel, forged
- with force-fit locking at square
- PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
offset socket wrench 1/2 inch, 195 mm, IEC 60900:2004	7310195

## reversible ratchet 1/2"

- chrome-vanadium-steel, forged
- reversible right- and left-drive
- simple locking of the attachment tools by force-fit locking at square
- PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
reversible ratchet 1/2 inch, 250 mm, IEC 60900:2004	7308200

## reversible ratchet 1/2", press locking

- chrome-vanadium-steel, forged, oil-hardened
- reversible right- and left-drive
- with special pressure locking system against unwanted loosening of insets
- PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
reversible ratchet 1/2 inch, 250 mm, press locking, IEC 60900:2004	7308250



## torque wrench 1/2"

- with integrated ratched
- right or left operation
- strengthened plastic insulation
- weight: 780g
- according to IEC 60900



### 1000 V

Description	Material number
torque wrench 1/2 inch, 5-50 Nm, length: 370 mm, IEC 60900, 4% tolerance	7309372
plastic case for torque wrench, 408 x 160 x 153 mm	7520000

## torque wrench 1/2"

- with integrated reversible ratchet
- Right- and left-hand operation
- Reinforced plastic insulation
- according to IEC 60900



### 1000 V

Description	Material number
torque wrench 1/2 inch, 20-100 Nm, length: 460 mm, IEC 60900:2004	7309460
torque wrench 1/2 inch, 40-220 Nm, length: 530 mm, IEC 60900:2004	7309530

## T-box spanner

- out of precision steel tube, hardened
- for uptake very long thread-bolts
- PVC-insulated
- according to IEC 60900



### 1000 V

Description	Material number
T-box spanner, AF 10, IEC 60900:2004	7341010
T-box spanner, AF 11, IEC 60900:2004	7341011
T-box spanner, AF 12, IEC 60900:2004	7341012
T-box spanner, AF 13, IEC 60900:2004	7341013
T-box spanner, AF 14, IEC 60900:2004	7341014
T-box spanner, AF 16, IEC 60900:2004	7341016
T-box spanner, AF 17, IEC 60900:2004	7341017
T-box spanner, AF 18, IEC 60900:2004	7341018
T-box spanner, AF 19, IEC 60900:2004	7341019
T-box spanner, AF 22, IEC 60900:2004	7341022
T-box spanner, AF 24, IEC 60900:2004	7341024
T-box spanner, AF 17, 300 mm, IEC 60900:2004	7341170
T-box spanner, AF 19, 300 mm, IEC 60900:2004	7341190

## 4-way wheel wrench

- with steel-6-sided sockets
- hex sockets are insulated against each other
- size 140x140 mm
- PVC all-insulated, squirted
- according to IEC 60900



### 1000 V

Description	Material number
4-way wheel wrench, AF 9 x 11 x 12 x 19, IEC 60900:2004	7120150
4-way wheel wrench, AF 10 x 13 x 14 x 17, IEC 60900:2004	7120151
4-way wheel wrench, AF 13 x 17 x 19 x 22, IEC 60900:2004	7120152
4-way wheel wrench, AF 10 x 11 x 13 x 17, IEC 60900:2004	7120153
4-way wheel wrench, AF 11 x 13 x 14 x 17, IEC 60900:2004	7120154
4-way wheel wrench, AF10 x 11 x 14 x 17, IEC 60900:2004	7120155

## insulated adapter 1/2"

- suitable for all common impact driver
- length of the adapter: 100 mm
- tested according to IEC 60900
- sockets especially suitable for impact driver



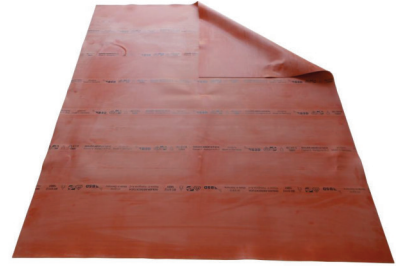
### 1000 V

Description	Material number
insulating adapter 1/2 inch, for impact wrench 1000 V, bis 38 Nm	7305500
internal hex wrench socket 1/2 inch AF 4, for BSD - insulating adapter	7305041
internal hex wrench socket 1/2 inch AF 5, for BSD - insulating adapter	7305051
internal hex wrench socket 1/2 inch AF 6 for BSD - insulating adapter	7305061
internal hex wrench socket 1/2 inch AF 8, for BSD- insulating adapter	7305081
wrench socket 1/2 inch, AF 10, for BSD - insulating adapter	7303101
wrench socket 1/2 inch, AF 13, for BSD - insulating adapter	7303131
wrench socket 1/2 inch, AF 17, for BSD - insulating adapter	7303171
wrench socket 1/2 inch, AF 19, for BSD - insulating adapter	7303191
case for insulating adapter and wrench sockets, 270 x 185 x 76 mm	7305150

## insulating material

### insulating blanket, 1 mm

- out of rubber (EPDM), red-orange
- light resistant and non-ageing
- ozon resistant according to DIN 53509
- tested according to 61112:2009
- delivery possible up to 10 m reels
- continuous with 6 marking banderoles
- free of duty of declaration ingredients (PAK, Nitrosamine)
- permanent and comprehensive marking
- different sizes available



Description	Material number
insulating blanket roll 10 m x 1,2 m x 1 mm with 6 labeling banderol	7416167
insulating blanket 1 m x 1,2 m x 1 mm with 6 labeling banderol	7416166
insulating blanket 1200 x 1200 x 1 mm, IEC 61112:2009	7416201
insulating blanket 1200 x 200 x 1 mm, IEC 61112:2009	7416150
insulating blanket 800 x 800 x 1 mm, IEC 61112:2009	7416123
insulating blanket 600 x 600 x 1 mm, IEC 61112:2009	7416124
insulating blanket 200 x 350 x 1 mm, IEC 61112:2009	7416125

### insulating blanket, 1,5 mm

- made of EPDM, red-orange
- ozone resistant according to DIN 53509
- tested according to IEC 61112:2009
- light- and ageing-resistant
- grooved surface
- low surface resistance
- suitable for sensitive electronic systems e.g. HV batteries
- Delivery up to 10 m on rolls possible
- continuous with 6-identification banderoles
- free from declarable ingredients VDE (PAK, Nitrosamines)
- permanent and comprehensive labelling
- other sizes available on request



Description	Material number
insulating blanket roll 10 m x 1,2 m x 1,5 mm with 6 labeling banderol	7416133
insulating blanket 1200 x 1000 x 1,5 mm with 6 labeling banderol	7416126
insulating blanket 1200 x 1200 x 1,5 mm, IEC 60900:2009	7416130
insulating blanket 800 x 800 x 1,5 mm, IEC 61112:2009	7416127
insulating blanket 600 x 600 x 1,5 mm, IEC 61112:2009	7416128
insulating blanket 200 x 350 x 1,5 mm, IEC 61112:2009	7416129

## Fixing hooks for insulating blankets

- Hook made of red plastic
- individual fixing to the insulating blanket with 2 plastic screws
- Application for later mounting, for example on control cabinet doors
- 235 mm x 32 mm
- Hook ø 49 mm



 **1000 V**

Description	Material number
Fixing hooks with handgrip for insulating blankets	7117070

## safety clamp

- with PE-all-plastic hard, red
- with inserted spring, not contactable from outside



 **1000 V**

Description	Material number
safety clamp, 80 mm	7117080
safety clamp, 150 mm	7117150

## insulating matting, 3 mm

- tested according to IEC 61111:2009
- out of rubber, grey
- 3 mm thick
- sulphur-, oil-, ozone resistant
- roughened surface for safe stand
- delivery possible up to 10 m reels
- cut 1,0 m x 1,0 m and 1,0 m x 1,5 m
- other cut sizes on request



 **1000 V Klasse 0**

Description	Material number
insulating matting 10,0 m x 1,0 m VDE 0680 / 3mm, 1000 V	7417011
insulating matting 1,0 m x 1,5 m VDE 0680 / 3mm, 1000 V	7417110
insulating matting 1,0 m x 1,0 m VDE 0680 / 3mm, 1000 V	7417010

## insulating magnet

- to fix insulating blankets
- complete insulated, no bypassing possible
- 1 magnet clamps 0,75 m<sup>2</sup> blanket at max. 1 mm thickness
- color: red
- tested according to IEC 60900:2004
- care for worker with cardiac pacemaker

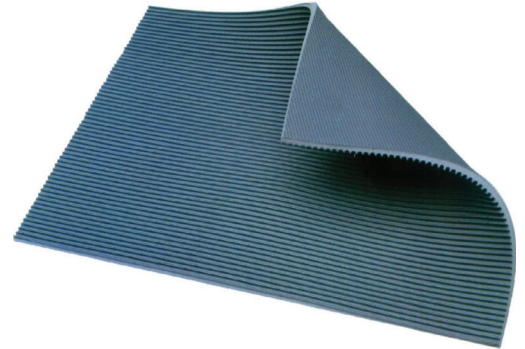


 **1000 V**

Description	Material number
Insulating magnet, red, IEC 60900:2004	7409000

## insulating matting, 4 mm

- tested according to VDE 0303
- to cover electrical service rooms
- strength 4,0 mm
- colour light-grey
- width 1,0 and 1,2 m
- top finely grooved, underside material patterned
- possible delivery up to 10 m on reels
- vulkanetten-ribbon at the underside



Description	Material number
insulating matting 1 m x 1 m VDE 0303	7417015
insulating matting 1 m x 1,2 m VDE 0303	7417020

## bag for insulating material

- for storage insulating material and safety clamps
- out of synthetic material



Description	Material number
bag for insulating material 570 x 270 mm	7518004

### quiver for insulating matting and blankets

- to store and transport insulating blanket or matting
- opening with zipper on both sides
- with carrying strap
- without contents



Description	Material number
quiver for insulating matting and blankets	7518008

### bag for insulating matting and blankets

- to store and transport insulating blankets and matting
- width: 100 cm
- with carrying handle and strap
- 3 flaps
- without contents



Description	Material number
bag for insulating matting and blankets, red	7518009

### bag for insulating matting and blankets

- to storage insulating blankets and matting
- out of leather
- color: black



Description	Material number
bag for insulating matting and blankets 420 x 300 x 100 mm	7518006

### adhesive masking tape

- self-adhesive
- PVC, soft
- on reels á 10 m



Description	Material number
adhesive masking tape, VDE, 50 mm x 10 m, red	7413000

## insulating grommet, round

- one-sided closed out of tough-elastic plastic
- for insulation of single-wires
- according to VDE 0680-1-1



 1000 V

Description	Material number
insulating grommet, round 2 x 40 mm for wire cross section 1,5 mm <sup>2</sup>	7411002
insulating grommet, round 3 x 40 mm for wire cross section 2,5 mm <sup>2</sup>	7411003
insulating grommet, round 5 x 40 mm for wire cross section 10 mm <sup>2</sup>	7411005
insulating grommet, round 7 x 50 mm for wire cross section 16 mm <sup>2</sup>	7411007
insulating grommet, round 9 x 60 mm for wire cross section 35 mm <sup>2</sup>	7411009
insulating grommet, round 10 x 70 mm for wire cross section 50 mm <sup>2</sup>	7411010
insulating grommet, round 12 x 70 mm for wire cross section 70 mm <sup>2</sup>	7411012
insulating grommet, round 15 x 110 mm for wire cross section 120 mm <sup>2</sup>	7410015
insulating grommet, round 20 x 110 mm for wire cross section 150 mm <sup>2</sup>	7410020
insulating grommet, round 25 x 110 mm for wire cross section 185 mm <sup>2</sup>	7410025
insulating grommet, round 30 x 110 mm for wire cross section 240 mm <sup>2</sup>	7410030
insulating grommet, round 40 x 110 mm for wire cross section 300 mm <sup>2</sup>	7410040

## insulating grommet, conical

- one-sided closed
- conical version
- out of tough-elastic plastic
- for insulation of single-wires
- according to VDE 0680-1-1



 1000 V

Description	Material number
insulating grommet, conical 4 x 50 mm for wire cross section 6 mm <sup>2</sup>	7426051
insulating grommet, conical 6 x 40 mm for wire cross section 10 mm <sup>2</sup>	7426006
insulating grommet, conical 6 x 60 mm for wire cross section 10 mm <sup>2</sup>	7426007
insulating grommet, conical 10 x 30 mm for wire cross section 50 mm <sup>2</sup>	7426014
insulating grommet, conical 10 x 80 mm for wire cross section 50 mm <sup>2</sup>	7426010
insulating grommet, conical 12 x 90 mm for wire cross section 70 mm <sup>2</sup>	7426012
insulating grommet, conical 20 x 110 mm for wire cross section 150 mm <sup>2</sup>	7426020



## insulating grommet, oval

- one-sided closed out of tough-elastic plastic, 140 mm long
- for insulation of wire-bundle or NKBA-cable
- according to VDE 0680-1-1



### 1000 V

Description	Material number
insulating grommet, oval 30 x 60 x 140 mm	7409030
insulating grommet, oval 40 x 80 x 140 mm	7409040

## self clamping grommet

- for insulation of single-wires
- out of tough-elastic plastic
- with cross-cut cover
- according to VDE 0680-1-1



### 1000 V

Description	Material number
self clamping grommet 10 x 75 mm for wire cross section up to 50 mm <sup>2</sup>	7409001
self clamping grommet 15 x 100 mm for wire cross section up to 120 mm <sup>2</sup>	7409015
self clamping grommet 20 x 100 mm for wire cross section up to 150 mm <sup>2</sup>	7409002
self clamping grommet 30 x 120 mm for wire cross section up to 240 mm <sup>2</sup>	7409003
self clamping grommet 40 x 135 mm for wire cross section up to 300 mm <sup>2</sup>	7409004
self clamping grommet 50 x 155 mm for wire cross section up to 400 mm <sup>2</sup>	7409005
self clamping grommet 60 x 130 mm for wire cross section up to 500 mm <sup>2</sup>	7409006

## insulating grommet for V-clamp

- one-sided closed
- out of tough-elastic plastic
- for simply covering of different clips on fuse panels, e.g. V-clips
- other modification on request
- according to VDE 0680-1-1



 1000 V

Description	Material number
insulating sleeve for V-clamp	7409500

## box for insulating grommets

- with 2 closures
- out of plastic
- for storage of insulation boot



Description	Material number
box for insulating grommet 170 x 130 x 37 mm	7412000

## cover for lower section

- offers protection for rash connection on rather inserting of NH-fuses
- to use with NH-plug handle
- offers safety against restart for remoted from connection place working electricians
- with marking: "Nicht einschalten - Gefahr", ("Do not power up - danger")



 1000 V

Description	Material number
cover for lower section size 00	7425002

### clamps cover for lower section

- offers protection for rash connection on rather inserting of NH-fuses
- to use with NH-plug handle
- offers safety against restart for remoted from connection place working electricians
- with marking: "Nicht einschalten - Gefahr", ("Do not power up - danger")



 **1000 V**

Description	Material number
clamp cover for lower section size 00	7425004

### clamp cover for lower section

- offers protection for rash connection on rather inserting of NH-fuses
- to use with NH-plug handle
- offers safety against restart for remoted from connection place working electricians
- with marking: "Nicht einschalten - Gefahr", ("Do not switch on - danger")



 **1000 V**

Description	Material number
clamp cover for lower section size 1 - 3	7425003

### cover for lower section

- offers protection for rash connection on rather inserting of NH-fuses
- to use with NH-plug handle
- offers safety against restart for remoted from connection place working electricians
- with marking: "Nicht einschalten - Gefahr", ("Do not switch on - danger")



 **1000 V**

Description	Material number
cover for lower section size 1 - 3	7425001

## handhold for low-voltage high-capacity fuse (NH)

- for inserting and changing of low-voltage high-performance fuses
- for nominal voltages up to 1000 V AC on rather 1500 V DC
- PPE according to regulation (EU) 2016/425
- VDE 0680-4: 1980-11
- Testing principle GS-ET-38: 2019



 1000 V

Description	Material number
handhold for low-voltage high-breaking -capacity fuse VDE 0680/4, size 00-3	7425000

## handhold for low-voltage high-capacity fuse (NH)

- for inserting and changing of low-voltage high-performance fuses
- for nominal voltages up to 1000 V AC on rather 1500 V DC



Description	Material number
handhold for low-voltage high-breaking capacity fuse VDE 0680/4, size 00-3	7425008

## Adapter for NH fuse handle

The NH - fuse adapter is designed according to the requirements and tests of the IEC 60900 standard and thus for working under voltage up to 1000 V AC / 1500 DC approved

Scope of application:

- It is the aid for NH fuse links with defective handle tabs can be safely removed

Properties:

- The NH fuse adapter creates a force and positive connection with the NH fuse link. After fixing the adapter to the defective NH fuse link, it is possible to combine this with a conventional NH fuse handle.
- By simple and quick adjustment the adapter can be to different sizes of NH-fuse links can be adjusted.
- suitable for: NH 0, NH 1, NH2 and NH3,
- Clamping range: 26 - 55 mm Fuse width

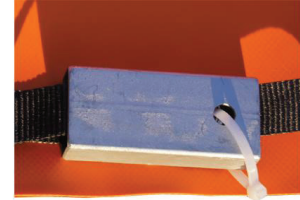
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Description	Material number
Adapter for NH fuse handle 1000 V	7425005

## protective cover for house connection box

- for protection against touching live parts
- insulation cap out of plastic, 1 mm thick
- for covering house connection box
- lockable through belt strap and lock
- lock is protected by metal tube
- labelling according to DIN VDE 0680-1:2013-04
- for nominal voltage up to 1000 V
- color: orange

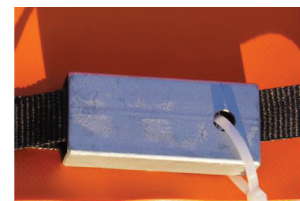


 **1000 V**

Description	Material number
protective cover for house connection box, 350 x 245 x 1000 mm, 1000 V	7428000

## protective cover for cable distribution box

- for protection against touching live parts
- insulation cap out of plastic, 1 mm thick
- for covering cable distribution box
- lockable through belt strap and lock
- lock is protected by metal tube
- labelling according to DIN VDE 0680-1:2013-04
- for nominal voltage up to 1000 V
- color: orange

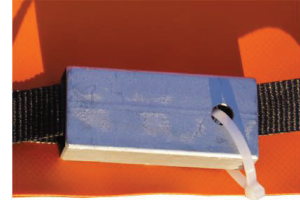


 **1000 V**

Description	Material number
protective cover 550 x 900 x 440 mm for cable distribution box size : 00	7426001
protective cover 700 x 900 x 440 mm for cable distribution box size : 0	7426002
protective cover 900 x 900 x 440 mm for cable distribution box size : 1	7426003
protective cover 1300 x 900 x 440 mm for cable distribution box size : 2	7426004
protective cover 1600 x 900 x 440 mm for cable distribution box size : 3	7426005

## protective cover for cable distribution box, extra long

- for protection against touching live parts
- insulation cap out of plastic, 1 mm thick
- for covering cable distribution box
- lockable through belt strap and lock
- lock is protected by metal tube
- labelling according to DIN VDE 0680-1:2013-04
- for nominal voltage up to 1000 V
- color: orange

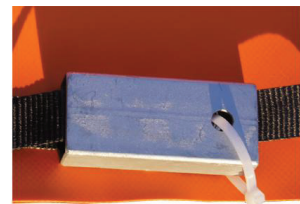


### 1000 V

Description	Material number
protective cover 550 x 1200 x 440 mm for cable distribution box size : 00L	7426110
protective cover 700 x 1200 x 440 mm for cable distribution box size : 0L	7426120
protective cover 900 x 1200 x 440 mm for cable distribution box : size 1L	7426130
protective cover 1300 x 1200 x 440 mm for cable distribution box size : 2L	7426140
protective cover 1600 x 1200 x 440 mm for cable distribution box size : 3L	7426150

## protective cover for street-light poles

- for protection against touching live parts
- insulation cap out of plastic, 1 mm thick
- for covering lightning poles
- lockable through belt strap and lock
- lock is protected by metal tube
- labelling according to DIN VDE 0680-1:2013-04
- for nominal voltage up to 1000 V
- color: orange

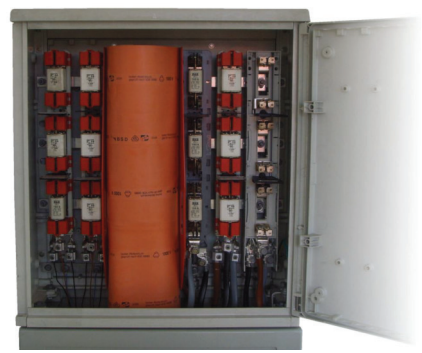


### 1000 V

Description	Material number
protective cover for street-light poles, 250 x 1100 mm	7460001

## protective cover for fuse panel

- cover for fuse rails
- with at least 4 mm distance between the rails in cable distribution box
- distance between busbar (top edge): 580 mm
- other measurements on request
- storage bag with cord and carrying strap
- space for 2 cover



 **1000 V**

Description	Material number
protective cover for fuse panel, type 3	7426100
protective cover for fuse panel, type 4	7426104
storage bag fuse panel cover	7426101

## Template for Insulating Protective Shutters for switchboards up to 36

- According to DIN VDE 0682-522:2003-10
- Tailor-made for your demands
- The labelling is made according to current standard.
- Upon request we can carry out electrical type – or unit testings.
- Thickness: 4mm up to 24 kV
- Thickness: 6mm up to 36 kV
- Standard color: red (special colors possible upon request)
- TYPE A1 (Protective Shutters for open areas)
- TYPE A2 (Protective Shutters for angled handle)
- TYPE A3 (Protective Shutters with operating stick holder)
- TYPE A4 (Protective Shutters to insert through slot opening)



Description	Material number
Template for Insulating Protective Shutter	7426999

## Transformer Protective Barrier

- universal protective barrier for hooking into protective beams
- adaptable to different beam heights
- expandable in width
- optical and mechanical protection for work in the vicinity within transformer stations up to  $U_n = 30 \text{ kV}$
- fast and comfortable mounting
- Transport size: 60 x 119 cm
- maximum height: 210 cm
- Weight: 12 kg



Description	Material number
Transformer Protective Barrier 1190/2130 x 60 mm, PVC red, 6mm	7426350

## insulating cover cordless, form 1

- single-leaved
- slotted for overhead-line house-connection-lines
- without cord
- red, out of 3 mm thick, soft, weatherproof insulation material
- according to VDE 0680-1-1

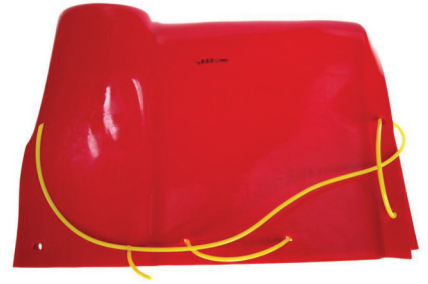


 **1000 V**

Description	Material number
insulating cover form 1, unperforated, single-leaved	7414421

## insulating cover with cord, form 1

- single-leaved
  - slotted for overhead-line house-connection-lines
  - with cord for permanent mounting
  - red, out of 3 mm thick, soft, weatherproof insulation material
  - complete protection against indirect touching of live parts IP 2X
  - according to VDE 0680-1-1
- 1 1,0 Stck. 7414422 : insulating cover form 1, single-leaved, with buttons



 **1000 V**

Description	Material number
insulating cover form 1, perforated, with cord	7414420

## insulating cover with buttons, form 1

- single-leaved
- slotted for overhead-line house-connection-lines
- with cord for permanent mounting
- red, out of 3 mm thick, soft, weatherproof insulation material
- complete protection against indirect touching of live parts IP 2X
- according to VDE 0680-1-1



 **1000 V**

Description	Material number
insulating cover form 1, single-leaved, with buttons	7414422



## insulating cover, form 2

- double-leaved
- two sided slotted for overhead-line mast-insulators
- red, out of 3 mm thick, soft, weatherproof insulation material
- according to VDE 0680-1-1



 1000 V

Description	Material number
insulating cover form 2, unperforated double-leaved	7415420

## insulating cover with buttons, form 2

- double-leaved
- two sided slotted for overhead-line mast-insulators
- for permanent mounting
- red, out of 3 mm thick, soft, weatherproof insulation material
- according to VDE 0680-1-1



 1000 V

Description	Material number
insulating cover form 1, double-leaved, with buttons	7415421

## insulating cover with buttons, out of EPDM

- out of insulating blanket 1 mm
- pushbuttons
- very individually useable
- light resistant and weatherproof



 1000 V

Description	Material number
insulating cover, 20 buttons, insulating blanket, 0,7 x 0,6 m	7450020
insulating cover, 26 buttons, insulating blanket, 1,20 x 0,6 m	7450026

## insulating cover with push buttons

- out of insulating blanket 1 mm
- 10 push buttons, mushroom form
- push buttons changeable
- very individually useable
- light resistant and weatherproof



 **1000 V**

Description	Material number
insulating cover with push button, insulating blanket, 1,20 x 0,35m	7450000

## encasement transit cable

- out of insulating blanket 1 mm
- with through push buttons or buttons
- very individually useable
- light resistant and weatherproof



 **1000 V**

Description	Material number
encasement transit cable, with push buttons, 1000 x 500 mm	7450027
encasement transit cable, with mushroom buttons, 1000 x 500 mm	7450037
encasement transit cable, with push buttons, 1000 x 700 mm	7450031

## encasement mains circuit breaker

- out of insulating blanket 1 mm
- with through push buttons or buttons
- very individually useable
- light resistant and weatherproof



 **1000 V**

Description	Material number
encasement mains circuit breaker, with push buttons, 700 x 700 mm	7450028
encasement mains circuit breaker, with mushroom buttons, 700 x 700 mm	7450038

## insulating conductor cover for overhead line, LV

- full covering of the overhead line cable
- color: red
- for diameters up to 20 mm
- easy drawing up by assembly-handhold
- UV - proofed
- special hole-pliers to notch to the conductor cover
- conductor covers can be shortened and connected individual



 **1000 V**

Description	Material number
conductor cover for overhead line 2,5 m	7408500
conductor cover for overhead line 5,0 m	7408550
assembly handhold for conductor cover	7408600
assembly handhold for conductor cover, screwable	7408700
special hole punch for live coverage	7408501

**stepladder, insulating**

- made of GFRP
- at least 10 years age resistance
- max. load 150 kg
- DIN EN 61478:2002



 **1000 V**

Description	Material number
stepladder GFRP 1,27 m / 4 rungs	7432017
stepladder GFRP 1,55 m / 5 rungs	7432018
stepladder GFRP 1,90 m / 6 rungs	7432019
stepladder GFRP 2,50 m / 8 rungs	7432025
stepladder GFRP 3,00 m / 10 rungs	7432030
stepladder GFRP 4,10 m / 14 rungs	7432041

**leaning ladder, insulating**

- made of GFRP
- at least 10 years age resistance
- max. load 150 kg
- DIN EN 61478:2002
- A ladder with a length of more than 3 meters must be provided with a crossbar (DIN EN 131-1)



 **1000 V**

Description	Material number
GFK rung single ladder 1,93 m / 6 rungs	7431019
GFK rung single ladder 3,00 m / 10 rungs	7431030
GFK rung single ladder with crossbar, 4.17 m / 14 rungs	7431040
Retrofit cross traverse GFK 930 mm	7431999

## leaning ladder, insulating, extendible

- made of GFRP
- at least 10 years age resistance
- max. load 150 kg
- DIN EN 61478:2002
- A ladder with a length of more than 3 meters must be provided with a crossbar (DIN EN 131-1)



 **1000 V**

Description	Material number
Insulating sliding single ladder with crossbar, 6,30 m / 2x10 rungs	7433058
Insulating sliding single ladder with crossbar, 7,40 m / 2x12 rungs	7433070
Insulating rope-operated single ladder with crossbar, 9,40 m / 2x16 rungs	7433080
Retrofit cross traverse GFK 930 mm	7431999

## wedges

### expansion wedge, plastic, cuneiform

- out of plastic, hard
- cuneiform
- height 0 - 30 mm
- according to IEC 60900



 **1000 V**

Description	Material number
expansion wedge, without notch, polyamid, reinforced	7418160

### expansion wedge, plastic

- out of impact resistant polyamid
- height 0 - 10 mm
- according to IEC 60900



 **1000 V**

Description	Material number
expansion wedge, red polyamid	7420300

### expansion wedge, plastic, slim

- out of impact resistant polyamid
- height 0 - 10 mm
- according to IEC 60900



 **1000 V**

Description	Material number
expansion wedge, 170 x 20 x 10 mm, red, all-plastic	7418170

## expansion wedge, plastic, oval

- out of plastic, oval form
- therefore no damage of the conductor insulation
- for spreading of wire
- according to IEC 60900

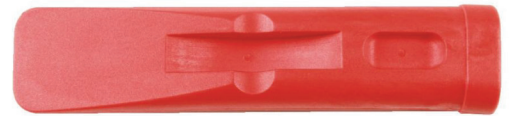


 **1000 V**

Description	Material number
expansion wedge, oval 220 x 30 x 12 mm, plastic	7420000

## expansion wedge, with notch

- out of plastic, oval form
- therefore no damage of the conductor insulation
- 22 mm width notch
- for spreading and cutting of cable
- also for cutting with the ratchet-front-cutter  
Art-Nr. 7 121 330 and 7 121 290
- according to IEC 60900



 **1000 V**

Description	Material number
expansion wedge, oval 220 x 50 x 28 mm, plastic, with notch	7419000

## wedge

- for ground cable NAKBK, NAKBA
- diameter: 25 mm
- slope 70 mm / 30 mm radius
- out of shock-resistant plastic, red
- according to IEC 60900



 **1000 V**

Description	Material number
wedge, length: 140 mm, red	7418140

## assembly wedge for insulated overhead line

- for insulated overhead lines
- out of plastic



Description	Material number
assembly wedge for insulated overhead lines, plastic	8148200

## separating-wedge

- to separate wires of tap terminals
- impact resistant plastic
- easy handling , knock in and turn



Description	Material number
separating-wedge	8148300



## tool bags

### tool bag length 270 mm

- tool bag out of red leather
- folding, with carrying strap
- with inside pocket
- without content



Description	Material number
leather-tool bag, red, 270 x 305 x 170 mm	7506022

### tool bag length 420 mm

- tool bag out of red leather
- folding, with carrying strap
- with inside pocket
- without content



Description	Material number
leather-tool bag, red, 420 x 320 x 230 mm, with inside pocket	7506000

### tool bag length 480 mm

- tool bag out of red leather
- folding, with carrying strap
- with inside pocket
- without content



Description	Material number
leather-tool bag, red, 480 x 320 x 170 mm, without inside pocket	7506021

### tool bag length 480 mm

- tool bag out of red leather
- folding, with carrying strap
- with inside pocket
- without content



Description	Material number
leather-tool bag, red, 480 x 320 x 170 mm, with inside pocket	7506020

### tool bag twice folding, empty

- can be completed to tool bag for live working technician
- tools can be individual equipped



Description	Material number
leather-tool bag, red, 460 x 370 x 230 mm, both side folding	7506100

### tool bag length 570 mm

- tool bag out of red leather
- hinged, with carrying belt
- with admission for cable pliers (Art-Nr. 7 119 505)
- without contents



Description	Material number
leather-tool bag, red, 570 x 320 x 230 mm, with inside pocket	7506010

### plastic case for ratchet-set, red

- out of red plastic
- for ratchet-set, size 1/2" or 3/8"
- without content



Description	Material number
plastic case 380 x 270 x 80 mm, red, empty, for ratchet set 1/2 inch	7509010
plastic case 380 x 270 x 80 mm, red, empty, for ratchet set 3/8 inch	7509020

### plastic case for torque wrench

- made out of black plastic
- for storing torque wrenches or other tools
- inclusive raster foam
- protection class IP67
- dimensions: 408 x 160 x 153mm
- without content



Description	Material number
plastic case for torque wrench, 408 x 160 x 153 mm	7520000

**tool bag 1 cable-substations 3/8"**

- tool bag equipped with insulated tools in accordance with the list:

- 1 1,0 Stck. 7101180 : combination pliers, 180 mm, IEC 60900:2004
- 2 1,0 Stck. 7111240 : water pump pliers, 240 mm, IEC 60900:2004
- 3 1,0 Stck. 7119505 : cable shears, 505 mm, up to 27 mm, IEC 60900:2004
- 4 1,0 Stck. 7109240 : single-hand cable cutter, 200 mm, IEC 60900:2004
- 5 1,0 Stck. 7308251 : reversible ratchet 3/8 inch, 200 mm, press locking, IEC 60900:
- 6 1,0 Stck. 7322160 : T socket wrench 3/8 inch, 160 mm, IEC 60900:2004
- 7 1,0 Stck. 7321250 : extension 3/8 inch, 250 mm, IEC 60900:2004
- 8 1,0 Stck. 7324040 : internal hex wrench socket 3/8 inch, AF 4, IEC 60900:2004
- 9 1,0 Stck. 7324050 : internal hex wrench socket 3/8 inch, AF 5, IEC 60900:2004
- 10 1,0 Stck. 7324060 : internal hex wrench socket 3/8 inch, AF 6, IEC 60900:2004
- 11 1,0 Stck. 7324080 : internal hex wrench socket 3/8 inch, AF 8, IEC 60900:2004
- 12 1,0 Stck. 7124180 : cable stripping knife, 200 mm, IEC 60900:2004
- 13 1,0 Stck. 7130050 : plastic hammer, 50 mm, IEC 60900:2004
- 14 1,0 Stck. 7201035 : slot screwdriver, 0,6 x 3,5 x 100 mm, IEC 60900:2004
- 15 1,0 Stck. 7201055 : slot screwdriver, 1,0 x 5,5 x 125 mm, IEC 60900:2004
- 16 1,0 Stck. 7202001 : crosstip screwdriver PH 1, IEC 60900:2004
- 17 1,0 Stck. 7202002 : crosstip screwdriver PH 2, IEC 60900:2004
- 18 1,0 Stck. 7210040 : hex offset screwdriver, AF 4, IEC 60900:2004
- 19 1,0 Stck. 7210050 : hex offset screwdriver, AF 5, IEC 60900:2004
- 20 1,0 Stck. 7210060 : hex offset screwdriver, AF 6, IEC 60900:2004
- 21 1,0 Stck. 7210080 : hex offset screwdriver, AF 8, IEC 60900:2004
- 22 1,0 Stck. 7301100 : open-ended spanner, AF 10, IEC 60900:2004
- 23 1,0 Stck. 7301110 : open-ended spanner, AF 11, IEC 60900:2004
- 24 1,0 Stck. 7301130 : open-ended spanner, AF 13, IEC 60900:2004
- 25 1,0 Stck. 7301140 : open-ended spanner, AF 14, IEC 60900:2004
- 26 1,0 Stck. 7301170 : open-ended spanner, AF 17, IEC 60900:2004
- 27 1,0 Stck. 7301190 : open-ended spanner, AF 19, IEC 60900:2004
- 28 1,0 Stck. 7301220 : open-ended spanner, AF 22, IEC 60900:2004
- 29 1,0 Stck. 7302100 : ring spanner, AF 10, cranked, IEC 60900:2004
- 30 1,0 Stck. 7302130 : ring spanner, AF 13, cranked, IEC 60900:2004
- 31 1,0 Stck. 7302170 : ring spanner, AF 17, cranked, IEC 60900:2004
- 32 1,0 Stck. 7302190 : ring spanner, AF 19, cranked, IEC 60900:2004
- 33 1,0 Stck. 7302220 : ring spanner, AF 22, cranked, IEC 60900:2004
- 34 1,0 Stck. 7319080 : wrench socket 3/8 inch, AF 8, IEC 60900:2004
- 35 1,0 Stck. 7319100 : wrench socket 3/8 inch, AF 10, IEC 60900:2004
- 36 1,0 Stck. 7319130 : wrench socket 3/8 inch, AF 13, IEC 60900:2004
- 37 1,0 Stck. 7319170 : wrench socket 3/8 inch, AF 17, IEC 60900:2004
- 38 1,0 Stck. 7319190 : wrench socket 3/8 inch, AF 19, IEC 60900:2004
- 39 1,0 Stck. 7319220 : wrench socket 3/8 inch, AF 22, IEC 60900:2004
- 40 1,0 Stck. 7401010 : flat brush, cranked, width 1 inch, IEC 60900:2004
- 41 2,0 Stck. 7427000 : danger sign 21,0 x 24,5 cm
- 42 1,0 Stck. 7419000 : expansion wedge, oval 220 x 50 x 28 mm, plastic, with notch
- 43 1,0 Stck. 7509500 : aligning tool, universal 50 mm<sup>2</sup> - 240 mm<sup>2</sup>, IEC 60900:2004
- 44 1,0 Stck. 7343101 : folding meter white, 1m, IEC 60900:2004
- 45 2,0 Stck. 7420000 : expansion wedge, oval 220 x 30 x 12 mm, plastic
- 46 10,0 Stck. 7426007 : insulating grommet, conical 6 x 60 mm for wire cross section 10
- 47 10,0 Stck. 7426012 : insulating grommet, conical 12 x 90 mm for wire cross section
- 48 8,0 Stck. 7410015 : insulating grommet, round 15 x 110 mm for wire cross section
- 49 8,0 Stck. 7410020 : insulating grommet, round 20 x 110 mm for wire cross section
- 50 5,0 Stck. 7117080 : safety clamp, 80 mm
- 51 5,0 Stck. 7117150 : safety clamp, 150 mm
- 52 1,0 Stck. 7412000 : box for insulating grommet 170 x 130 x 37 mm
- 53 1,0 Stck. 7506010 : leather-tool bag, red, 570 x 320 x 230 mm, with inside pocket



Description	Material number
tool bag cable-substation Nr. 1, 3/8 inch	7503100

## tool bag 1 cable-substations 1/2"

- tool bag equipped with insulated tools in accordance with the list:

- 1 1,0 Stck. 7101180 : combination pliers, 180 mm, IEC 60900:2004
- 2 1,0 Stck. 7111240 : water pump pliers, 240 mm, IEC 60900:2004
- 3 1,0 Stck. 7119505 : cable shears, 505 mm, up to 27 mm, IEC 60900:2004
- 4 1,0 Stck. 7109240 : single-hand cable cutter, 200 mm, IEC 60900:2004
- 5 1,0 Stck. 7308250 : reversible ratchet 1/2 inch, 250 mm, press locking, IEC 60900:
- 6 1,0 Stck. 7311160 : T-socket wrench 1/2 inch, 160 mm, IEC 60900:2004
- 7 1,0 Stck. 7306250 : extension 1/2 inch, 250 mm, IEC 60900:2004
- 8 1,0 Stck. 7305040 : internal hex wrench socket, 1/2 inch, AF 4, IEC 60900:2004
- 9 1,0 Stck. 7305050 : internal hex wrench socket, 1/2 inch, AF 5, IEC 60900:2004
- 10 1,0 Stck. 7305060 : internal hex wrench socket, 1/2 inch, AF 6, IEC 60900:2004
- 11 1,0 Stck. 7305080 : internal hex wrench socket, 1/2 inch, AF 8, IEC 60900:2004
- 12 1,0 Stck. 7124180 : cable stripping knife, 200 mm, IEC 60900:2004
- 13 1,0 Stck. 7130050 : plastic hammer, 50 mm, IEC 60900:2004
- 14 1,0 Stck. 7201035 : slot screwdriver, 0,6 x 3,5 x 100 mm, IEC 60900:2004
- 15 1,0 Stck. 7201055 : slot screwdriver, 1,0 x 5,5 x 125 mm, IEC 60900:2004
- 16 1,0 Stck. 7202001 : crosstip screwdriver PH 1, IEC 60900:2004
- 17 1,0 Stck. 7202002 : crosstip screwdriver PH 2, IEC 60900:2004
- 18 1,0 Stck. 7210040 : hex offset screwdriver, AF 4, IEC 60900:2004
- 19 1,0 Stck. 7210050 : hex offset screwdriver, AF 5, IEC 60900:2004
- 20 1,0 Stck. 7210060 : hex offset screwdriver, AF 6, IEC 60900:2004
- 21 1,0 Stck. 7210080 : hex offset screwdriver, AF 8, IEC 60900:2004
- 22 1,0 Stck. 7301100 : open-ended spanner, AF 10, IEC 60900:2004
- 23 1,0 Stck. 7301110 : open-ended spanner, AF 11, IEC 60900:2004
- 24 1,0 Stck. 7301130 : open-ended spanner, AF 13, IEC 60900:2004
- 25 1,0 Stck. 7301140 : open-ended spanner, AF 14, IEC 60900:2004
- 26 1,0 Stck. 7301170 : open-ended spanner, AF 17, IEC 60900:2004
- 27 1,0 Stck. 7301190 : open-ended spanner, AF 19, IEC 60900:2004
- 28 1,0 Stck. 7301220 : open-ended spanner, AF 22, IEC 60900:2004
- 29 1,0 Stck. 7302100 : ring spanner, AF 10, cranked, IEC 60900:2004
- 30 1,0 Stck. 7302130 : ring spanner, AF 13, cranked, IEC 60900:2004
- 31 1,0 Stck. 7302170 : ring spanner, AF 17, cranked, IEC 60900:2004
- 32 1,0 Stck. 7302190 : ring spanner, AF 19, cranked, IEC 60900:2004
- 33 1,0 Stck. 7302220 : ring spanner, AF 22, cranked, IEC 60900:2004
- 34 1,0 Stck. 7303080 : wrench socket 1/2 inch, AF 8, IEC 60900:2004
- 35 1,0 Stck. 7303100 : wrench socket 1/2 inch, AF 10, IEC 60900:2004
- 36 1,0 Stck. 7303130 : wrench socket 1/2 inch, AF 13, IEC 60900:2004
- 37 1,0 Stck. 7303170 : wrench socket 1/2 inch, AF 17, IEC 60900:2004
- 38 1,0 Stck. 7303190 : wrench socket 1/2 inch, AF 19, IEC 60900:2004
- 39 1,0 Stck. 7303220 : wrench socket 1/2 inch, AF 22, IEC 60900:2004
- 40 1,0 Stck. 7401010 : flat brush, cranked, width 1 inch, IEC 60900:2004
- 41 2,0 Stck. 7427000 : danger sign 21,0 x 24,5 cm
- 42 2,0 Stck. 7420000 : expansion wedge, oval 220 x 30 x 12 mm, plastic
- 43 1,0 Stck. 7509500 : aligning tool, universal 50 mm<sup>2</sup> - 240 mm<sup>2</sup>, IEC 60900:2004
- 44 1,0 Stck. 7343101 : folding meter white, 1m, IEC 60900:2004
- 45 1,0 Stck. 7419000 : expansion wedge, oval 220 x 50 x 28 mm, plastic, with notch
- 46 10,0 Stck. 7426007 : insulating grommet, conical 6 x 60 mm for wire cross section 10
- 47 10,0 Stck. 7426010 : insulating grommet, conical 10 x 80 mm for wire cross section
- 48 8,0 Stck. 7410015 : insulating grommet, round 15 x 110 mm for wire cross section
- 49 8,0 Stck. 7410020 : insulating grommet, round 20 x 110 mm for wire cross section
- 50 1,0 Stck. 7412000 : box for insulating grommet 170 x 130 x 37 mm
- 51 5,0 Stck. 7117080 : safety clamp, 80 mm
- 52 5,0 Stck. 7117150 : safety clamp, 150 mm
- 53 1,0 Stck. 7506010 : leather-tool bag, red, 570 x 320 x 230 mm, with inside pocket



Description	Material number
tool bag cable-substation Nr. 1, 1/2 inch	7503000

## tool bag 2 cable-substations 3/8"

- tool bag equipped with insulated tools in accordance with the list:

- 1 1,0 Stck. 7101180 : combination pliers, 180 mm, IEC 60900:2004
- 2 1,0 Stck. 7106205 : telephone pliers, 205 mm, straight jaws, IEC 60900:2004
- 3 1,0 Stck. 7109240 : single-hand cable cutter, 200 mm, IEC 60900:2004
- 4 1,0 Stck. 7308251 : reversible ratchet 3/8 inch, 200 mm, press locking, IEC 60900:
- 5 1,0 Stck. 7322160 : T socket wrench 3/8 inch, 160 mm, IEC 60900:2004
- 6 1,0 Stck. 7321250 : extension 3/8 inch, 250 mm, IEC 60900:2004
- 7 1,0 Stck. 7324040 : internal hex wrench socket 3/8 inch, AF 4, IEC 60900:2004
- 8 1,0 Stck. 7324050 : internal hex wrench socket 3/8 inch, AF 5, IEC 60900:2004
- 9 1,0 Stck. 7324060 : internal hex wrench socket 3/8 inch, AF 6, IEC 60900:2004
- 10 1,0 Stck. 7324080 : internal hex wrench socket 3/8 inch, AF 8, IEC 60900:2004
- 11 1,0 Stck. 7124180 : cable stripping knife, 200 mm, IEC 60900:2004
- 12 1,0 Stck. 7130050 : plastic hammer, 50 mm, IEC 60900:2004
- 13 1,0 Stck. 7201035 : slot screwdriver, 0,6 x 3,5 x 100 mm, IEC 60900:2004
- 14 1,0 Stck. 7201055 : slot screwdriver, 1,0 x 5,5 x 125 mm, IEC 60900:2004
- 15 1,0 Stck. 7202001 : crosstip screwdriver PH 1, IEC 60900:2004
- 16 1,0 Stck. 7202002 : crosstip screwdriver PH 2, IEC 60900:2004
- 17 1,0 Stck. 7210040 : hex offset screwdriver, AF 4, IEC 60900:2004
- 18 1,0 Stck. 7210050 : hex offset screwdriver, AF 5, IEC 60900:2004
- 19 1,0 Stck. 7210060 : hex offset screwdriver, AF 6, IEC 60900:2004
- 20 1,0 Stck. 7210080 : hex offset screwdriver, AF 8, IEC 60900:2004
- 21 1,0 Stck. 7301100 : open-ended spanner, AF 10, IEC 60900:2004
- 22 1,0 Stck. 7301110 : open-ended spanner, AF 11, IEC 60900:2004
- 23 1,0 Stck. 7301130 : open-ended spanner, AF 13, IEC 60900:2004
- 24 1,0 Stck. 7301140 : open-ended spanner, AF 14, IEC 60900:2004
- 25 1,0 Stck. 7301170 : open-ended spanner, AF 17, IEC 60900:2004
- 26 1,0 Stck. 7301190 : open-ended spanner, AF 19, IEC 60900:2004
- 27 1,0 Stck. 7301220 : open-ended spanner, AF 22, IEC 60900:2004
- 28 1,0 Stck. 7302100 : ring spanner, AF 10, cranked, IEC 60900:2004
- 29 1,0 Stck. 7302130 : ring spanner, AF 13, cranked, IEC 60900:2004
- 30 1,0 Stck. 7302170 : ring spanner, AF 17, cranked, IEC 60900:2004
- 31 1,0 Stck. 7302190 : ring spanner, AF 19, cranked, IEC 60900:2004
- 32 1,0 Stck. 7302220 : ring spanner, AF 22, cranked, IEC 60900:2004
- 33 1,0 Stck. 7319080 : wrench socket 3/8 inch, AF 8, IEC 60900:2004
- 34 1,0 Stck. 7319100 : wrench socket 3/8 inch, AF 10, IEC 60900:2004
- 35 1,0 Stck. 7319130 : wrench socket 3/8 inch, AF 13, IEC 60900:2004
- 36 1,0 Stck. 7319170 : wrench socket 3/8 inch, AF 17, IEC 60900:2004
- 37 1,0 Stck. 7319190 : wrench socket 3/8 inch, AF 19, IEC 60900:2004
- 38 1,0 Stck. 7319220 : wrench socket 3/8 inch, AF 22, IEC 60900:2004
- 39 1,0 Stck. 7401010 : flat brush, cranked, width 1 inch, IEC 60900:2004
- 40 2,0 Stck. 7427000 : danger sign 21,0 x 24,5 cm
- 41 1,0 Stck. 7509500 : aligning tool, universal 50 mm<sup>2</sup> - 240 mm<sup>2</sup>, IEC 60900:2004
- 42 1,0 Stck. 7343101 : folding meter white, 1m, IEC 60900:2004
- 43 1,0 Stck. 7419000 : expansion wedge, oval 220 x 50 x 28 mm, plastic, with notch
- 44 2,0 Stck. 7420000 : expansion wedge, oval 220 x 30 x 12 mm, plastic
- 45 10,0 Stck. 7426007 : insulating grommet, conical 6 x 60 mm for wire cross section 10
- 46 10,0 Stck. 7426012 : insulating grommet, conical 12 x 90 mm for wire cross section
- 47 8,0 Stck. 7410015 : insulating grommet, round 15 x 110 mm for wire cross section
- 48 8,0 Stck. 7410020 : insulating grommet, round 20 x 110 mm for wire cross section
- 49 5,0 Stck. 7117080 : safety clamp, 80 mm
- 50 5,0 Stck. 7117150 : safety clamp, 150 mm
- 51 1,0 Stck. 7412000 : box for insulating grommet 170 x 130 x 37 mm
- 52 1,0 Stck. 7506100 : leather-tool bag, red, 460 x 370 x 230 mm, both side folding



Description	Material number
tool bag cable-substation Nr. 2, 3/8 inch	7503500

## tool bag 2 cable-substations 1/2"

- tool bag equipped with insulated tools in accordance with the list:

- 1 1,0 Stck. 7101180 : combination pliers, 180 mm, IEC 60900:2004
- 2 1,0 Stck. 7106205 : telephone pliers, 205 mm, straight jaws, IEC 60900:2004
- 3 1,0 Stck. 7109240 : single-hand cable cutter, 200 mm, IEC 60900:2004
- 4 1,0 Stck. 7308250 : reversible ratchet 1/2 inch, 250 mm, press locking, IEC 60900:
- 5 1,0 Stck. 7311160 : T-socket wrench 1/2 inch, 160 mm, IEC 60900:2004
- 6 1,0 Stck. 7306250 : extension 1/2 inch, 250 mm, IEC 60900:2004
- 7 1,0 Stck. 7305040 : internal hex wrench socket, 1/2 inch, AF 4, IEC 60900:2004
- 8 1,0 Stck. 7305050 : internal hex wrench socket, 1/2 inch, AF 5, IEC 60900:2004
- 9 1,0 Stck. 7305060 : internal hex wrench socket, 1/2 inch, AF 6, IEC 60900:2004
- 10 1,0 Stck. 7305080 : internal hex wrench socket, 1/2 inch, AF 8, IEC 60900:2004
- 11 1,0 Stck. 7124180 : cable stripping knife, 200 mm, IEC 60900:2004
- 12 1,0 Stck. 7130050 : plastic hammer, 50 mm, IEC 60900:2004
- 13 1,0 Stck. 7201035 : slot screwdriver, 0,6 x 3,5 x 100 mm, IEC 60900:2004
- 14 1,0 Stck. 7201055 : slot screwdriver, 1,0 x 5,5 x 125 mm, IEC 60900:2004
- 15 1,0 Stck. 7202001 : crosstip screwdriver PH 1, IEC 60900:2004
- 16 1,0 Stck. 7202002 : crosstip screwdriver PH 2, IEC 60900:2004
- 17 1,0 Stck. 7210040 : hex offset screwdriver, AF 4, IEC 60900:2004
- 18 1,0 Stck. 7210050 : hex offset screwdriver, AF 5, IEC 60900:2004
- 19 1,0 Stck. 7210060 : hex offset screwdriver, AF 6, IEC 60900:2004
- 20 1,0 Stck. 7210080 : hex offset screwdriver, AF 8, IEC 60900:2004
- 21 1,0 Stck. 7301100 : open-ended spanner, AF 10, IEC 60900:2004
- 22 1,0 Stck. 7301110 : open-ended spanner, AF 11, IEC 60900:2004
- 23 1,0 Stck. 7301130 : open-ended spanner, AF 13, IEC 60900:2004
- 24 1,0 Stck. 7301140 : open-ended spanner, AF 14, IEC 60900:2004
- 25 1,0 Stck. 7301170 : open-ended spanner, AF 17, IEC 60900:2004
- 26 1,0 Stck. 7301190 : open-ended spanner, AF 19, IEC 60900:2004
- 27 1,0 Stck. 7301220 : open-ended spanner, AF 22, IEC 60900:2004
- 28 1,0 Stck. 7302100 : ring spanner, AF 10, cranked, IEC 60900:2004
- 29 1,0 Stck. 7302130 : ring spanner, AF 13, cranked, IEC 60900:2004
- 30 1,0 Stck. 7302170 : ring spanner, AF 17, cranked, IEC 60900:2004
- 31 1,0 Stck. 7302190 : ring spanner, AF 19, cranked, IEC 60900:2004
- 32 1,0 Stck. 7302220 : ring spanner, AF 22, cranked, IEC 60900:2004
- 33 1,0 Stck. 7303080 : wrench socket 1/2 inch, AF 8, IEC 60900:2004
- 34 1,0 Stck. 7303100 : wrench socket 1/2 inch, AF 10, IEC 60900:2004
- 35 1,0 Stck. 7303130 : wrench socket 1/2 inch, AF 13, IEC 60900:2004
- 36 1,0 Stck. 7303170 : wrench socket 1/2 inch, AF 17, IEC 60900:2004
- 37 1,0 Stck. 7303190 : wrench socket 1/2 inch, AF 19, IEC 60900:2004
- 38 1,0 Stck. 7303220 : wrench socket 1/2 inch, AF 22, IEC 60900:2004
- 39 1,0 Stck. 7401010 : flat brush, cranked, width 1 inch, IEC 60900:2004
- 40 2,0 Stck. 7427000 : danger sign 21,0 x 24,5 cm
- 41 1,0 Stck. 7509500 : aligning tool, universal 50 mm<sup>2</sup> - 240 mm<sup>2</sup>, IEC 60900:2004
- 42 1,0 Stck. 7343101 : folding meter white, 1m, IEC 60900:2004
- 43 2,0 Stck. 7420000 : expansion wedge, oval 220 x 30 x 12 mm, plastic
- 44 1,0 Stck. 7419000 : expansion wedge, oval 220 x 50 x 28 mm, plastic, with notch
- 45 10,0 Stck. 7426007 : insulating grommet, conical 6 x 60 mm for wire cross section 10
- 46 10,0 Stck. 7426012 : insulating grommet, conical 12 x 90 mm for wire cross section
- 47 8,0 Stck. 7410015 : insulating grommet, round 15 x 110 mm for wire cross section
- 48 8,0 Stck. 7410020 : insulating grommet, round 20 x 110 mm for wire cross section
- 49 1,0 Stck. 7412000 : box for insulating grommet 170 x 130 x 37 mm
- 50 5,0 Stck. 7117080 : safety clamp, 80 mm
- 51 5,0 Stck. 7117150 : safety clamp, 150 mm
- 52 1,0 Stck. 7506100 : leather-tool bag, red, 460 x 370 x 230 mm, both side folding



Description	Material number
tool bag cable-substation Nr. 2, 1/2 inch	7503600

## tool bag live working technician 3/8"

- tool bag equipped with insulated tools in accordance with the list:

- 1 1,0 Stck. 7509020 : plastic case 380 x 270 x 80 mm, red, empty, for ratchet set 3/8
- 2 1,0 Stck. 7116204 : combination pliers, 185 mm, without cutting edge, GRP, IEC
- 3 1,0 Stck. 7116201 : flat pliers, 190 mm, GRP, IEC 60900:2004
- 4 1,0 Stck. 7109240 : single-hand cable cutter, 200 mm, IEC 60900:2004
- 5 1,0 Stck. 7105180 : high leverage diagonal cutting pliers, 180 mm, IEC 60900:2004
- 6 1,0 Stck. 7201035 : slot screwdriver, 0,6 x 3,5 x 100 mm, IEC 60900:2004
- 7 1,0 Stck. 7201040 : slot screwdriver, 0,8 x 4,0 x 100 mm, IEC 60900:2004
- 8 1,0 Stck. 7201055 : slot screwdriver, 1,0 x 5,5 x 125 mm, IEC 60900:2004
- 9 1,0 Stck. 7201065 : slot screwdriver, 1,2 x 6,5 x 150 mm, IEC 60900:2004
- 10 1,0 Stck. 7202001 : crosstip screwdriver PH 1, IEC 60900:2004
- 11 1,0 Stck. 7202002 : crosstip screwdriver PH 2, IEC 60900:2004
- 12 1,0 Stck. 7204080 : hex socket wrench AF 8, IEC 60900:2004
- 13 1,0 Stck. 7204100 : hex socket wrench AF 10, IEC 60900:2004
- 14 1,0 Stck. 7301080 : open-ended spanner, AF 8, IEC 60900:2004
- 15 1,0 Stck. 7301100 : open-ended spanner, AF 10, IEC 60900:2004
- 16 1,0 Stck. 7301120 : open-ended spanner, AF 12, IEC 60900:2004
- 17 1,0 Stck. 7301130 : open-ended spanner, AF 13, IEC 60900:2004
- 18 1,0 Stck. 7301140 : open-ended spanner, AF 14, IEC 60900:2004
- 19 1,0 Stck. 7301160 : open-ended spanner, AF 16, IEC 60900:2004
- 20 1,0 Stck. 7301170 : open-ended spanner, AF 17, IEC 60900:2004
- 21 1,0 Stck. 7301180 : open-ended spanner, AF 18, IEC 60900:2004
- 22 1,0 Stck. 7301190 : open-ended spanner, AF 19, IEC 60900:2004
- 23 1,0 Stck. 7302100 : ring spanner, AF 10, cranked, IEC 60900:2004
- 24 1,0 Stck. 7302130 : ring spanner, AF 13, cranked, IEC 60900:2004
- 25 1,0 Stck. 7302170 : ring spanner, AF 17, cranked, IEC 60900:2004
- 26 1,0 Stck. 7302190 : ring spanner, AF 19, cranked, IEC 60900:2004
- 27 1,0 Stck. 7302220 : ring spanner, AF 22, cranked, IEC 60900:2004
- 28 1,0 Stck. 7127180 : cable stripping knife, 200 mm, partially insulated, IEC 60900:
- 29 1,0 Stck. 7126160 : cable stripping knife, 160mm, IEC 60900:2004
- 30 1,0 Stck. 7125160 : cable dismantling knife, 160 mm, IEC 60900:2004
- 31 1,0 Stck. 7210040 : hex offset screwdriver, AF 4, IEC 60900:2004
- 32 1,0 Stck. 7210050 : hex offset screwdriver, AF 5, IEC 60900:2004
- 33 1,0 Stck. 7210060 : hex offset screwdriver, AF 6, IEC 60900:2004
- 34 1,0 Stck. 7210080 : hex offset screwdriver, AF 8, IEC 60900:2004
- 35 1,0 Stck. 7419000 : expansion wedge, oval 220 x 50 x 28 mm, plastic, with notch
- 36 2,0 Stck. 7420000 : expansion wedge, oval 220 x 30 x 12 mm, plastic
- 37 1,0 Stck. 7130050 : plastic hammer, 50 mm, IEC 60900:2004
- 38 1,0 Stck. 7401000 : flat brush, cranked, width 1,5 inch, IEC 60900:2004
- 39 2,0 Stck. 7427000 : danger sign 21,0 x 24,5 cm
- 40 1,0 Stck. 7509500 : aligning tool, universal 50 mm<sup>2</sup> - 240 mm<sup>2</sup>, IEC 60900:2004
- 41 1,0 Stck. 7343101 : folding meter white, 1m, IEC 60900:2004
- 42 10,0 Stck. 7426007 : insulating grommet, conical 6 x 60 mm for wire cross section 10
- 43 10,0 Stck. 7426012 : insulating grommet, conical 12 x 90 mm for wire cross section
- 44 8,0 Stck. 7409001 : self clamping grommet 10 x 75 mm for wire cross section up to
- 45 8,0 Stck. 7409002 : self clamping grommet 20 x 100 mm for wire cross section up to
- 46 1,0 Stck. 7412000 : box for insulating grommet 170 x 130 x 37 mm
- 47 5,0 Stck. 7117080 : safety clamp, 80 mm
- 48 5,0 Stck. 7117150 : safety clamp, 150 mm
- 49 1,0 Stck. 7506100 : leather-tool bag, red, 460 x 370 x 230 mm, both side folding
- 50 1,0 Stck. 7308251 : reversible ratchet 3/8 inch, 200 mm, press locking, IEC 60900:
- 51 1,0 Stck. 7322160 : T socket wrench 3/8 inch, 160 mm, IEC 60900:2004
- 52 1,0 Stck. 7321125 : extension 3/8 inch, 125 mm, IEC 60900:2004
- 53 1,0 Stck. 7321250 : extension 3/8 inch, 250 mm, IEC 60900:2004
- 54 1,0 Stck. 7324040 : internal hex wrench socket 3/8 inch, AF 4, IEC 60900:2004
- 55 1,0 Stck. 7324050 : internal hex wrench socket 3/8 inch, AF 5, IEC 60900:2004
- 56 1,0 Stck. 7324060 : internal hex wrench socket 3/8 inch, AF 6, IEC 60900:2004
- 57 1,0 Stck. 7324080 : internal hex wrench socket 3/8 inch, AF 8, IEC 60900:2004
- 58 1,0 Stck. 7319080 : wrench socket 3/8 inch, AF 8, IEC 60900:2004
- 59 1,0 Stck. 7319100 : wrench socket 3/8 inch, AF 10, IEC 60900:2004
- 60 1,0 Stck. 7319130 : wrench socket 3/8 inch, AF 13, IEC 60900:2004
- 61 1,0 Stck. 7319170 : wrench socket 3/8 inch, AF 17, IEC 60900:2004
- 62 1,0 Stck. 7319190 : wrench socket 3/8 inch, AF 19, IEC 60900:2004
- 63 1,0 Stck. 7319220 : wrench socket 3/8 inch, AF 22, IEC 60900:2004
- 64 1,0 Stck. 7319240 : wrench socket 3/8 inch, AF 24, IEC 60900:2004



Description	Material number
tool bag live working technician complete with tools 3/8 inch	7503200



## tool bag live working technician 1/2"

- tool bag equipped with insulated tools in accordance with the list:

- 1 1,0 Stck. 7116204 : combination pliers, 185 mm, without cutting edge, GRP,IEC
- 2 1,0 Stck. 7116201 : flat pliers, 190 mm, GRP, IEC 60900:2004
- 3 1,0 Stck. 7109240 : single-hand cable cutter, 200 mm, IEC 60900:2004
- 4 1,0 Stck. 7105180 : high leverage diagonal cutting pliers, 180 mm, IEC 60900:2004
- 5 1,0 Stck. 7201035 : slot screwdriver, 0,6 x 3,5 x 100 mm, IEC 60900:2004
- 6 1,0 Stck. 7201040 : slot screwdriver, 0,8 x 4,0 x 100 mm, IEC 60900:2004
- 7 1,0 Stck. 7201055 : slot screwdriver, 1,0 x 5,5 x 125 mm, IEC 60900:2004
- 8 1,0 Stck. 7201065 : slot screwdriver, 1,2 x 6,5 x 150 mm, IEC 60900:2004
- 9 1,0 Stck. 7202001 : crosstip screwdriver PH 1, IEC 60900:2004
- 10 1,0 Stck. 7202002 : crosstip screwdriver PH 2, IEC 60900:2004
- 11 1,0 Stck. 7204080 : hex socket wrench AF 8, IEC 60900:2004
- 12 1,0 Stck. 7204100 : hex socket wrench AF 10, IEC 60900:2004
- 13 1,0 Stck. 7301080 : open-ended spanner, AF 8, IEC 60900:2004
- 14 1,0 Stck. 7301100 : open-ended spanner, AF 10, IEC 60900:2004
- 15 1,0 Stck. 7301120 : open-ended spanner, AF 12, IEC 60900:2004
- 16 1,0 Stck. 7301130 : open-ended spanner, AF 13, IEC 60900:2004
- 17 1,0 Stck. 7301140 : open-ended spanner, AF 14, IEC 60900:2004
- 18 1,0 Stck. 7301160 : open-ended spanner, AF 16, IEC 60900:2004
- 19 1,0 Stck. 7301170 : open-ended spanner, AF 17, IEC 60900:2004
- 20 1,0 Stck. 7301180 : open-ended spanner, AF 18, IEC 60900:2004
- 21 1,0 Stck. 7301190 : open-ended spanner, AF 19, IEC 60900:2004
- 22 1,0 Stck. 7302100 : ring spanner, AF 10, cranked, IEC 60900:2004
- 23 1,0 Stck. 7302130 : ring spanner, AF 13, cranked, IEC 60900:2004
- 24 1,0 Stck. 7302170 : ring spanner, AF 17, cranked, IEC 60900:2004
- 25 1,0 Stck. 7302190 : ring spanner, AF 19, cranked, IEC 60900:2004
- 26 1,0 Stck. 7302220 : ring spanner, AF 22, cranked, IEC 60900:2004
- 27 1,0 Stck. 7127180 : cable stripping knife, 200 mm, partially insulated, IEC 60900:
- 28 1,0 Stck. 7126160 : cable stripping knife, 160mm, IEC 60900:2004
- 29 1,0 Stck. 7125160 : cable dismantling knife, 160 mm, IEC 60900:2004
- 30 1,0 Stck. 7210040 : hex offset screwdriver, AF 4, IEC 60900:2004
- 31 1,0 Stck. 7210050 : hex offset screwdriver, AF 5, IEC 60900:2004
- 32 1,0 Stck. 7210060 : hex offset screwdriver, AF 6, IEC 60900:2004
- 33 1,0 Stck. 7210080 : hex offset screwdriver, AF 8, IEC 60900:2004
- 34 1,0 Stck. 7419000 : expansion wedge, oval 220 x 50 x 28 mm, plastic, with notch
- 35 2,0 Stck. 7420000 : expansion wedge, oval 220 x 30 x 12 mm, plastic
- 36 1,0 Stck. 7130050 : plastic hammer, 50 mm, IEC 60900:2004
- 37 1,0 Stck. 7401000 : flat brush, cranked, width 1,5 inch, IEC 60900:2004
- 38 2,0 Stck. 7427000 : danger sign 21,0 x 24,5 cm
- 39 1,0 Stck. 7509500 : aligning tool, universal 50 mm<sup>2</sup> - 240 mm<sup>2</sup>, IEC 60900:2004
- 40 1,0 Stck. 7343101 : folding meter white, 1m, IEC 60900:2004
- 41 10,0 Stck. 7426007 : insulating grommet, conical 6 x 60 mm for wire cross section 10
- 42 10,0 Stck. 7426012 : insulating grommet, conical 12 x 90 mm for wire cross section
- 43 8,0 Stck. 7409001 : self clamping grommet 10 x 75 mm for wire cross section up to
- 44 8,0 Stck. 7409002 : self clamping grommet 20 x 100 mm for wire cross section up to
- 45 1,0 Stck. 7412000 : box for insulating grommet 170 x 130 x 37 mm
- 46 5,0 Stck. 7117080 : safety clamp, 80 mm
- 47 5,0 Stck. 7117150 : safety clamp, 150 mm
- 48 1,0 Stck. 7506100 : leather-tool bag, red, 460 x 370 x 230 mm, both side folding
- 49 1,0 Stck. 7308250 : reversible ratchet 1/2 inch, 250 mm, press locking, IEC 60900:
- 50 1,0 Stck. 7311160 : T-socket wrench 1/2 inch, 160 mm, IEC 60900:2004
- 51 1,0 Stck. 7306125 : extension 1/2 inch, 125 mm, IEC 60900:2004
- 52 1,0 Stck. 7306250 : extension 1/2 inch, 250 mm, IEC 60900:2004
- 53 1,0 Stck. 7305040 : internal hex wrench socket, 1/2 inch, AF 4, IEC 60900:2004
- 54 1,0 Stck. 7305050 : internal hex wrench socket, 1/2 inch, AF 5, IEC 60900:2004
- 55 1,0 Stck. 7305060 : internal hex wrench socket, 1/2 inch, AF 6, IEC 60900:2004
- 56 1,0 Stck. 7305080 : internal hex wrench socket, 1/2 inch, AF 8, IEC 60900:2004
- 57 1,0 Stck. 7303080 : wrench socket 1/2 inch, AF 8, IEC 60900:2004
- 58 1,0 Stck. 7303100 : wrench socket 1/2 inch, AF 10, IEC 60900:2004
- 59 1,0 Stck. 7303130 : wrench socket 1/2 inch, AF 13, IEC 60900:2004
- 60 1,0 Stck. 7303170 : wrench socket 1/2 inch, AF 17, IEC 60900:2004
- 61 1,0 Stck. 7303190 : wrench socket 1/2 inch, AF 19, IEC 60900:2004
- 62 1,0 Stck. 7303220 : wrench socket 1/2 inch, AF 22, IEC 60900:2004
- 63 1,0 Stck. 7303240 : wrench socket 1/2 inch, AF 24, IEC 60900:2004
- 64 1,0 Stck. 7509010 : plastic case 380 x 270 x 80 mm, red, empty, for ratchet set 1/2



Description	Material number
tool bag live working technician complete with tools 1/2 inch	7503300

## meter tool bag, small

- tool bag equipped with insulated tools in accordance with the list:

- 1 1,0 Stck. 7506022 : leather-tool bag, red, 270 x 305 x 170 mm
- 2 1,0 Stck. 7101180 : combination pliers, 180 mm, IEC 60900:2004
- 3 1,0 Stck. 7104160 : side cutter, 160 mm, IEC 60900:2004
- 4 1,0 Stck. 7103160 : round nose plier,160 mm, IEC 60900:2004
- 5 1,0 Stck. 7107205 : telephone pliers, 205mm, bended jaws, IEC 60900:2004
- 6 1,0 Stck. 7201025 : slot screwdriver, 0,4 x 2,5 x 75 mm, IEC 60900:2004
- 7 1,0 Stck. 7201040 : slot screwdriver, 0,8 x 4,0 x 100 mm, IEC 60900:2004
- 8 1,0 Stck. 7201055 : slot screwdriver, 1,0 x 5,5 x 125 mm, IEC 60900:2004
- 9 1,0 Stck. 7201080 : slot screwdriver, 1,2 x 8,0 x 175 mm, IEC 60900:2004
- 10 1,0 Stck. 7202001 : crosstip screwdriver PH 1, IEC 60900:2004
- 11 1,0 Stck. 7202002 : crosstip screwdriver PH 2, IEC 60900:2004
- 12 1,0 Stck. 7206080 : hex screwdriver AF 8, L=160mm, T=95mm, IEC 60900:2004
- 13 1,0 Stck. 7141300 : cable stripping knife, 190 mm, with exchangeable blade
- 14 1,0 Stck. 7109171 : single-hand cable cutter, 165 mm, IEC 60900:2004
- 15 1,0 Paar. 7421010 : insulating protective glove, latex, EN 60903, class 0, size 10
- 17 1,0 Stck. 9003024 : voltage detector with rotating field indicator Duspol analog
- 18 1,0 Stck. 7401201 : flat brush, straight, width 1 inch, IEC 60900:2004
- 19 1,0 Stck. 7412000 : box for insulating grommet 170 x 130 x 37 mm
- 20 10,0 Stck. 7411005 : insulating grommet, round 5 x 40 mm for wire cross section 10
- 21 10,0 Stck. 7426006 : insulating grommet, conical 6 x 40 mm for wire cross section 10
- 22 10,0 Stck. 7426007 : insulating grommet, conical 6 x 60 mm for wire cross section 10
- 23 10,0 Stck. 7426010 : insulating grommet, conical 10 x 80 mm for wire cross section
- 24 1,0 Stck. 7427000 : danger sign 21,0 x 24,5 cm
- 27 1,0 Stck. 7215000 : wing nut wrench, 145 mm, insulated, IEC 60900:2004



Description	Material number
tool bag meter technics small, complete with tools	7503400

## meter tool bag

- tool bag equipped with insulated tools in accordance with the list:

- 1 1,0 Stck. 7101180 : combination pliers, 180 mm, IEC 60900:2004
- 2 1,0 Stck. 7121150 : tweezers, 150 mm, straight, IEC 60900:2004
- 3 1,0 Stck. 7121151 : tweezers, 150 mm, bended, IEC 60900:2004
- 4 1,0 Stck. 7301080 : open-ended spanner, AF 8, IEC 60900:2004
- 5 1,0 Stck. 7301100 : open-ended spanner, AF 10, IEC 60900:2004
- 6 1,0 Stck. 7103160 : round nose plier,160 mm, IEC 60900:2004
- 7 1,0 Stck. 7108150 : cable stripper, 150 mm, IEC 60900:2004
- 8 1,0 Stck. 9003024 : voltage detector with rotating field indicator Duspol analog
- 9 1,0 Stck. 7111240 : water pump pliers, 240 mm, IEC 60900:2004
- 10 1,0 Stck. 7106205 : telephone pliers, 205 mm, straight jaws, IEC 60900:2004
- 11 1,0 Stck. 7204055 : hex socket wrench AF 5,5, IEC 60900:2004
- 12 1,0 Stck. 7204070 : hex socket wrench AF 7, IEC 60900:2004
- 13 1,0 Stck. 7204080 : hex socket wrench AF 8, IEC 60900:2004
- 14 1,0 Stck. 7204100 : hex socket wrench AF 10, IEC 60900:2004
- 15 1,0 Stck. 7201025 : slot screwdriver, 0,4 x 2,5 x 75 mm, IEC 60900:2004
- 16 1,0 Stck. 7201030 : slot screwdriver, 0,5 x 3,0 x 100 mm, IEC 60900:2004
- 17 1,0 Stck. 7201035 : slot screwdriver, 0,6 x 3,5 x 100 mm, IEC 60900:2004
- 18 1,0 Stck. 7201040 : slot screwdriver, 0,8 x 4,0 x 100 mm, IEC 60900:2004
- 19 1,0 Stck. 7201055 : slot screwdriver, 1,0 x 5,5 x 125 mm, IEC 60900:2004
- 20 1,0 Stck. 7201065 : slot screwdriver, 1,2 x 6,5 x 150 mm, IEC 60900:2004
- 21 1,0 Stck. 7202000 : crosstip screwdriver PH 0, IEC 60900:2004
- 22 1,0 Stck. 7202001 : crosstip screwdriver PH 1, IEC 60900:2004
- 23 1,0 Stck. 7202002 : crosstip screwdriver PH 2, IEC 60900:2004
- 24 25,0 Stck. 7426007 : insulating grommet, conical 6 x 60 mm for wire cross section 10
- 25 25,0 Stck. 7426010 : insulating grommet, conical 10 x 80 mm for wire cross section
- 26 25,0 Stck. 7411005 : insulating grommet, round 5 x 40 mm for wire cross section 10
- 27 25,0 Stck. 7411007 : insulating grommet, round 7 x 50 mm for wire cross section 16
- 28 1,0 Stck. 7412000 : box for insulating grommet 170 x 130 x 37 mm
- 29 1,0 Stck. 7506021 : leather-tool bag, red, 480 x 320 x 170 mm, without inside pocket



Description	Material number
tool bag meter technics complete with tools	7502000

## meter tool backpack

- tool bag equipped with insulated tools in accordance with the list:

- 1 1,0 Stck. 7116204 : combination pliers, 185 mm, without cutting edge, GRP, IEC
- 2 1,0 Stck. 7116201 : flat pliers, 190 mm, GRP, IEC 60900:2004
- 3 1,0 Stck. 7138200 : telephone pliers, 200 mm, insulated head, bended jaws, IEC
- 4 1,0 Stck. 7108150 : cable stripper, 150 mm, IEC 60900:2004
- 5 1,0 Stck. 7109170 : single-hand cable cutter, 160 mm, IEC 60900:2004
- 6 1,0 Stck. 7127180 : cable stripping knife, 200 mm, partially insulated, IEC 60900:
- 7 1,0 Stck. 7202001 : crosstip screwdriver PH 1, IEC 60900:2004
- 8 1,0 Stck. 7202002 : crosstip screwdriver PH 2, IEC 60900:2004
- 9 1,0 Stck. 7202003 : crosstip screwdriver PH 3, IEC 60900:2004
- 10 1,0 Stck. 7204080 : hex socket wrench AF 8, IEC 60900:2004
- 11 1,0 Stck. 7204090 : hex socket wrench AF 9, IEC 60900:2004
- 12 1,0 Stck. 7204100 : hex socket wrench AF 10, IEC 60900:2004
- 13 1,0 Stck. 7201030 : slot screwdriver, 0,5 x 3,0 x 100 mm, IEC 60900:2004
- 14 1,0 Stck. 7201040 : slot screwdriver, 0,8 x 4,0 x 100 mm, IEC 60900:2004
- 15 1,0 Stck. 7201055 : slot screwdriver, 1,0 x 5,5 x 125 mm, IEC 60900:2004
- 16 1,0 Stck. 7301080 : open-ended spanner, AF 8, IEC 60900:2004
- 17 1,0 Stck. 7301090 : open-ended spanner, AF 9, IEC 60900:2004
- 18 1,0 Stck. 7301100 : open-ended spanner, AF 10, IEC 60900:2004
- 19 1,0 Stck. 7215000 : wing nut wrench, 145 mm, insulated, IEC 60900:2004
- 20 1,0 m. 7416166 : insulating blanket 1 m x 1,2 m x 1 mm with 6 labeling banderol
- 21 4,0 Stck. 7117080 : safety clamp, 80 mm
- 22 4,0 Stck. 7117150 : safety clamp, 150 mm
- 23 10,0 Stck. 7426051 : insulating grommet, conical 4 x 50 mm for wire cross section 6
- 24 1,0 Stck. 7425000 : handhold for low-voltage high-breaking -capacity fuse VDE
- 25 1,0 Stck. 9003024 : voltage detector with rotating field indicator Duspol analog
- 26 1,0 Stck. 7506023 : toolsbackpack 320x170x425 mm



Description	Material number
tool backpack, complete with tools	7502100

## Tool set meter

- Tool box equipped with:

1. 1 piece cordless screwdriver, incl. quick-action chuck
2. 3 pieces insulating socket wrenches SW 8, 9 and 10
3. 1 piece of screwdriver bits, 1 each PH 1/2, PZ 1/2, PZ 1/2 +/-, 0.6 x 3.5, 0.8 x 4.0.1 x 5.5, 1.2 x 6.5
4. 1 piece Bit socket wrench
5. 1 piece torque screwdriver incl. charger
6. 3 pieces slip-on sleeves
7. 1 piece 4-LED headlamp
8. 2 pieces of insulated ceramic pliers
9. 1 mini gas burner, for shrinking, de-icing locks, removing adhesives etc.
10. 1 piece springy guide sleeve (Attention! Sleeve not suitable for OUT!)



Description	Material number
Tool set for meter assembly null	7502200

## tool bag for measuring and control technology

- tool bag equipped with insulated tools in accordance with the list:

- 1 1,0 Stck. 7101180 : combination pliers, 180 mm, IEC 60900:2004
- 2 1,0 Stck. 7104160 : side cutter, 160 mm, IEC 60900:2004
- 3 1,0 Stck. 7103160 : round nose plier, 160 mm, IEC 60900:2004
- 4 1,0 Stck. 7106170 : telephone pliers, 170 mm, straight jaws, IEC 60900:2004
- 5 1,0 Stck. 7107205 : telephone pliers, 205mm, bended jaws, IEC 60900:2004
- 6 1,0 Stck. 7108170 : crimping pliers, 190 mm, for ferrules, IEC 60900:2004
- 7 1,0 Stck. 7108150 : cable stripper, 150 mm, IEC 60900:2004
- 8 1,0 Stck. 7201025 : slot screwdriver, 0,4 x 2,5 x 75 mm, IEC 60900:2004
- 9 1,0 Stck. 7201035 : slot screwdriver, 0,6 x 3,5 x 100 mm, IEC 60900:2004
- 10 1,0 Stck. 7201055 : slot screwdriver, 1,0 x 5,5 x 125 mm, IEC 60900:2004
- 11 1,0 Stck. 7201065 : slot screwdriver, 1,2 x 6,5 x 150 mm, IEC 60900:2004
- 12 1,0 Stck. 7202001 : crosstip screwdriver PH 1, IEC 60900:2004
- 13 1,0 Stck. 7202002 : crosstip screwdriver PH 2, IEC 60900:2004
- 14 1,0 Stck. 7301080 : open-ended spanner, AF 8, IEC 60900:2004
- 15 1,0 Stck. 7301090 : open-ended spanner, AF 9, IEC 60900:2004
- 16 1,0 Stck. 7301100 : open-ended spanner, AF 10, IEC 60900:2004
- 17 1,0 Stck. 7301110 : open-ended spanner, AF 11, IEC 60900:2004
- 18 1,0 Stck. 7301120 : open-ended spanner, AF 12, IEC 60900:2004
- 19 1,0 Stck. 7301130 : open-ended spanner, AF 13, IEC 60900:2004
- 20 1,0 Stck. 7301140 : open-ended spanner, AF 14, IEC 60900:2004
- 21 1,0 Stck. 7204070 : hex socket wrench AF 7, IEC 60900:2004
- 22 1,0 Stck. 7204080 : hex socket wrench AF 8, IEC 60900:2004
- 23 1,0 Stck. 7204090 : hex socket wrench AF 9, IEC 60900:2004
- 24 1,0 Stck. 7204100 : hex socket wrench AF 10, IEC 60900:2004
- 25 1,0 Stck. 7121150 : tweezers, 150 mm, straight, IEC 60900:2004
- 26 1,0 Stck. 7121151 : tweezers, 150 mm, bended, IEC 60900:2004
- 27 1,0 Stck. 7124180 : cable stripping knife, 200 mm, IEC 60900:2004
- 28 1,0 Stck. 7401201 : flat brush, straight, width 1 inch, IEC 60900:2004
- 29 1,0 Stck. 7343101 : folding meter white, 1m, IEC 60900:2004
- 30 5,0 Stck. 7117080 : safety clamp, 80 mm
- 31 5,0 Stck. 7117150 : safety clamp, 150 mm
- 32 20,0 Stck. 7426006 : insulating grommet, conical 6 x 40 mm for wire cross section 10
- 33 20,0 Stck. 7426007 : insulating grommet, conical 6 x 60 mm for wire cross section 10
- 34 1,0 Stck. 7412000 : box for insulating grommet 170 x 130 x 37 mm
- 35 1,0 Stck. 7506000 : leather-tool bag, red, 420 x 320 x 230 mm, with inside pocket



Description	Material number
tool bag measuring and control technics, complete with tools	7504000

## plastic case 3/8", for live working technician bag

- suitable fo tool bag live working technician

- equipped with the following tools:

- 1 1,0 Stck. 7308251 : reversible ratchet 3/8 inch, 200 mm, press locking, IEC 60900:
- 2 1,0 Stck. 7322160 : T socket wrench 3/8 inch, 160 mm, IEC 60900:2004
- 3 1,0 Stck. 7321125 : extension 3/8 inch, 125 mm, IEC 60900:2004
- 4 1,0 Stck. 7321250 : extension 3/8 inch, 250 mm, IEC 60900:2004
- 5 1,0 Stck. 7324040 : internal hex wrench socket 3/8 inch, AF 4, IEC 60900:2004
- 6 1,0 Stck. 7324050 : internal hex wrench socket 3/8 inch, AF 5, IEC 60900:2004
- 7 1,0 Stck. 7324060 : internal hex wrench socket 3/8 inch, AF 6, IEC 60900:2004
- 8 1,0 Stck. 7324080 : internal hex wrench socket 3/8 inch, AF 8, IEC 60900:2004
- 9 1,0 Stck. 7319080 : wrench socket 3/8 inch, AF 8, IEC 60900:2004
- 10 1,0 Stck. 7319100 : wrench socket 3/8 inch, AF 10, IEC 60900:2004
- 11 1,0 Stck. 7319110 : wrench socket 3/8 inch, AF 11, IEC 60900:2004
- 12 1,0 Stck. 7319130 : wrench socket 3/8 inch, AF 13, IEC 60900:2004
- 13 1,0 Stck. 7319140 : wrench socket 3/8 inch, AF 14, IEC 60900:2004
- 14 1,0 Stck. 7319160 : wrench socket 3/8 inch, AF 16, IEC 60900:2004
- 15 1,0 Stck. 7319170 : wrench socket 3/8 inch, AF 17, IEC 60900:2004
- 16 1,0 Stck. 7319180 : wrench socket 3/8 inch, AF 18, IEC 60900:2004
- 17 1,0 Stck. 7319190 : wrench socket 3/8 inch, AF 19, IEC 60900:2004
- 18 1,0 Stck. 7319220 : wrench socket 3/8 inch, AF 22, IEC 60900:2004
- 19 1,0 Stck. 7509020 : plastic case 380 x 270 x 80 mm, red, empty, for ratchet set 3/8



Description	Material number
plastic case 3/8 inch 19 parts, suitable for bag 7 506 100	7524100

## case 3/8" for cable assembly

- case equipped with insulated tools in accordance with the list:

01. 1x 7308251 reversible ratchet 3/8"
02. 1x 7321125 extension 125 mm 3/8"
03. 1x 7321250 extension 250 mm 3/8"
04. 1x 7122200 soft-face hammer, recoil free
05. 1x 7418160 wedge, plastic
06. 1x 7210050 offset screwdriver AF 5
07. 1x 7210060 internal hex offset screwdriver AF 6
08. 1x 7319130 wrench socket 3/8" AF 13
09. 1x 7319170 wrench socket 3/8" AF 17
10. 1x 7319190 wrench socket 3/8" AF 19
11. 1x 7324050 internal hex wrench socket AF 5
12. 1x 7324060 internal hex wrench socket AF 6
13. 1x 7324080 internal hex wrench socket AF 8
14. 1x 7324100 internal hex wrench socket AF 10
15. 1x 7334005 internal hex wrench socket AF 5
16. 1x 7201035 slotted screwdriver 3,5x100 mm
17. 1 plastic case without contents

- 1 1,0 Stck. 7308251 : reversible ratchet 3/8 inch, 200 mm, press locking, IEC 60900:
- 2 1,0 Stck. 7321125 : extension 3/8 inch, 125 mm, IEC 60900:2004
- 3 1,0 Stck. 7321250 : extension 3/8 inch, 250 mm, IEC 60900:2004
- 4 1,0 Stck. 7418160 : expansion wedge, without notch, polyamid, reinforced
- 5 1,0 Stck. 7210050 : hex offset screwdriver, AF 5, IEC 60900:2004
- 6 1,0 Stck. 7210060 : hex offset screwdriver, AF 6, IEC 60900:2004
- 7 1,0 Stck. 7319130 : wrench socket 3/8 inch, AF 13, IEC 60900:2004
- 8 1,0 Stck. 7319170 : wrench socket 3/8 inch, AF 17, IEC 60900:2004
- 9 1,0 Stck. 7319190 : wrench socket 3/8 inch, AF 19, IEC 60900:2004
- 10 1,0 Stck. 7324050 : internal hex wrench socket 3/8 inch, AF 5, IEC 60900:2004
- 11 1,0 Stck. 7324060 : internal hex wrench socket 3/8 inch, AF 6, IEC 60900:2004
- 12 1,0 Stck. 7324080 : internal hex wrench socket 3/8 inch, AF 8, IEC 60900:2004
- 13 1,0 Stck. 7324100 : internal hex wrench socket 3/8 inch, AF 10, IEC 60900:2004
- 14 1,0 Stck. 7334005 : internal hex wrench socket 3/8 inch, AF 5, IEC 60900:2004
- 15 1,0 Stck. 7201030 : slot screwdriver, 0,5 x 3,0 x 100 mm, IEC 60900:2004
- 16 1,0 Stck. 090005 : null null
- 17 1,0 Stck. 7122200 : soft face hammer, 25 mm, IEC 60900:2004



Description	Material number
case for cable assembly 3/8 inch 16 parts	7524000

## plastic case with foam insert 3/8", 17 parts

- case equipped with insulated tools in accordance with the list:

01. 1x 7308251 reversible ratchet 3/8"
02. 1x 7321125 extension 125 mm 3/8"
03. 1x 7321250 extension 250 mm 3/8"
04. 1x 7322160 T- wrench 3/8"
05. 1x 7319100 wrench socket 3/8" AF 10
06. 1x 7319110 wrench socket 3/8" AF 11
07. 1x 7319120 wrench socket 3/8" AF 12
08. 1x 7319130 wrench socket 3/8" AF 13
09. 1x 7319140 wrench socket 3/8" AF 14
10. 1x 7319170 wrench socket 3/8" AF 17
11. 1x 7319190 wrench socket 3/8" AF 19
12. 1x 7319220 wrench socket 3/8" AF 22
13. 1x 7324050 internal hex wrench socket AF 5
14. 1x 7324060 internal hex wrench socket AF 6
15. 1x 7324080 internal hex wrench socket AF 8
16. 1x 7330012 trouqe limiter 3/8" you can choose bt. 12-25 Nm
17. 1x 7201035 slotted screwdriver 3,5x100 mm
18. 1 plastic case without contents



- 1 1,0 Stck. 7308201 : reversible ratchet 3/8 inch, 200 mm, IEC 60900:2004
- 2 1,0 Stck. 7321250 : extension 3/8 inch, 250 mm, IEC 60900:2004
- 3 1,0 Stck. 7321125 : extension 3/8 inch, 125 mm, IEC 60900:2004
- 4 1,0 Stck. 7322160 : T socket wrench 3/8 inch, 160 mm, IEC 60900:2004
- 5 1,0 Stck. 7319100 : wrench socket 3/8 inch, AF 10, IEC 60900:2004
- 6 1,0 Stck. 7319110 : wrench socket 3/8 inch, AF 11, IEC 60900:2004
- 7 1,0 Stck. 7319120 : wrench socket 3/8 inch, AF 12, IEC 60900:2004
- 8 1,0 Stck. 7319130 : wrench socket 3/8 inch, AF 13, IEC 60900:2004
- 9 1,0 Stck. 7319140 : wrench socket 3/8 inch, AF 14, IEC 60900:2004
- 10 1,0 Stck. 7319170 : wrench socket 3/8 inch, AF 17, IEC 60900:2004
- 11 1,0 Stck. 7319190 : wrench socket 3/8 inch, AF 19, IEC 60900:2004
- 12 1,0 Stck. 7319220 : wrench socket 3/8 inch, AF 22, IEC 60900:2004
- 13 1,0 Stck. 7324050 : internal hex wrench socket 3/8 inch, AF 5, IEC 60900:2004
- 14 1,0 Stck. 7324060 : internal hex wrench socket 3/8 inch, AF 6, IEC 60900:2004
- 15 1,0 Stck. 7324080 : internal hex wrench socket 3/8 inch, AF 8, IEC 60900:2004
- 16 1,0 Stck. 7201035 : slot screwdriver, 0,6 x 3,5 x 100 mm, IEC 60900:2004
- 17 1,0 Stck. 090004 : null null

Description	Material number
plastic case 3/8 inch 17 parts with foam insert	7522000

## plastic case 1/2", for live working technician bag

- suitable for tool bag live working technician  
 - equipped with the following tools:

- 1 1,0 Stck. 7308250 : reversible ratchet 1/2 inch, 250 mm, press locking, IEC 60900:
- 2 1,0 Stck. 7311160 : T-socket wrench 1/2 inch, 160 mm, IEC 60900:2004
- 3 1,0 Stck. 7306125 : extension 1/2 inch, 125 mm, IEC 60900:2004
- 4 1,0 Stck. 7306250 : extension 1/2 inch, 250 mm, IEC 60900:2004
- 5 1,0 Stck. 7305040 : internal hex wrench socket, 1/2 inch, AF 4, IEC 60900:2004
- 6 1,0 Stck. 7305050 : internal hex wrench socket, 1/2 inch, AF 5, IEC 60900:2004
- 7 1,0 Stck. 7305060 : internal hex wrench socket, 1/2 inch, AF 6, IEC 60900:2004
- 8 1,0 Stck. 7305080 : internal hex wrench socket, 1/2 inch, AF 8, IEC 60900:2004
- 9 1,0 Stck. 7303080 : wrench socket 1/2 inch, AF 8, IEC 60900:2004
- 10 1,0 Stck. 7303100 : wrench socket 1/2 inch, AF 10, IEC 60900:2004
- 11 1,0 Stck. 7303110 : wrench socket 1/2 inch, AF 11, IEC 60900:2004
- 12 1,0 Stck. 7303130 : wrench socket 1/2 inch, AF 13, IEC 60900:2004
- 13 1,0 Stck. 7303140 : wrench socket 1/2 inch, AF 14, IEC 60900:2004
- 14 1,0 Stck. 7303160 : wrench socket 1/2 inch, AF 16, IEC 60900:2004
- 15 1,0 Stck. 7303170 : wrench socket 1/2 inch, AF 17, IEC 60900:2004
- 16 1,0 Stck. 7303180 : wrench socket 1/2 inch, AF 18, IEC 60900:2004
- 17 1,0 Stck. 7303190 : wrench socket 1/2 inch, AF 19, IEC 60900:2004
- 18 1,0 Stck. 7303220 : wrench socket 1/2 inch, AF 22, IEC 60900:2004
- 19 1,0 Stck. 7303240 : wrench socket 1/2 inch, AF 24, IEC 60900:2004
- 20 1,0 Stck. 7509010 : plastic case 380 x 270 x 80 mm, red, empty, for ratchet set 1/2



Description	Material number
plastic case 1/2 inch 20 parts suitable for bag 7 506 100	7524200

## plastic case with foam insert 1/2", 16 parts

- case equipped with insulated tools in accordance with the list:

01. 1x 7308250 reversible ratchet 1/2"
02. 1x 7306125 extension 125 mm 1/2"
03. 1x 7306250 extension 250 mm 1/2"
04. 1x 7311160 T- wrench 1/2"
05. 1x 7303100 wrench socket 1/2" AF 10
06. 1x 7303120 wrench socket 1/2" AF 12
07. 1x 7303130 wrench socket 1/2" AF 13
08. 1x 7303140 wrench socket 1/2" AF 14
09. 1x 7303170 wrench socket 1/2" AF 17
10. 1x 7303190 wrench socket 1/2" AF 19
11. 1x 7303220 wrench socket 1/2" AF 22
12. 1x 7303240 wrench socket 1/2" AF 24
13. 1x 7305050 internal hex wrench socket AF 5
14. 1x 7305060 internal hex wrench socket AF 6
15. 1x 7305080 internal hex wrench socket AF 8
16. 1x 7201035 slotted screwdriver 3,5x100 mm
17. 1 plastic case without contents

- 1 1,0 Stck. 7308250 : reversible ratchet 1/2 inch, 250 mm, press locking, IEC 60900:
- 2 1,0 Stck. 7306125 : extension 1/2 inch, 125 mm, IEC 60900:2004
- 3 1,0 Stck. 7306250 : extension 1/2 inch, 250 mm, IEC 60900:2004
- 4 1,0 Stck. 7311160 : T-socket wrench 1/2 inch, 160 mm, IEC 60900:2004
- 5 1,0 Stck. 7303100 : wrench socket 1/2 inch, AF 10, IEC 60900:2004
- 6 1,0 Stck. 7303120 : wrench socket 1/2 inch, AF 12, IEC 60900:2004
- 7 1,0 Stck. 7303130 : wrench socket 1/2 inch, AF 13, IEC 60900:2004
- 8 1,0 Stck. 7303140 : wrench socket 1/2 inch, AF 14, IEC 60900:2004
- 9 1,0 Stck. 7303170 : wrench socket 1/2 inch, AF 17, IEC 60900:2004
- 10 1,0 Stck. 7303190 : wrench socket 1/2 inch, AF 19, IEC 60900:2004
- 11 1,0 Stck. 7303220 : wrench socket 1/2 inch, AF 22, IEC 60900:2004
- 12 1,0 Stck. 7303240 : wrench socket 1/2 inch, AF 24, IEC 60900:2004
- 13 1,0 Stck. 7305050 : internal hex wrench socket, 1/2 inch, AF 5, IEC 60900:2004
- 14 1,0 Stck. 7305060 : internal hex wrench socket, 1/2 inch, AF 6, IEC 60900:2004
- 15 1,0 Stck. 7305080 : internal hex wrench socket, 1/2 inch, AF 8, IEC 60900:2004
- 16 1,0 Stck. 7201035 : slot screwdriver, 0,6 x 3,5 x 100 mm, IEC 60900:2004
- 17 1,0 Stck. 090003 : plastic case for 7523000

Description	Material number
plastic case 1/2 inch 16 parts with foam insert	7523000



## Plastic case with foam inlay 1/4", 22 pieces

- Case equipped with insulated tools as listed:

1. 1.0 pcs. 7308300: Switch ratchet 1/4", 140 mm, IEC 60900
2. 1.0 pcs. 7307000: Bit holding adapter 1/4", fully insulated, IEC 60900
3. 1.0 pcs. 7307160: T-slot wrench 1/4", 160 mm, IEC 60900
4. 1.0 pcs. 7307050: Extension 1/4", 50 mm, IEC 60900
5. 1.0 pcs. 7307075: Extension 1/4", 75 mm, IEC 60900
6. 1.0 pcs. 7307100: Extension 1/4", 105 mm, IEC 60900
7. 1.0 pcs. 7307150: Extension 1/4", 150 mm, IEC 60900
8. 1.0 pcs 7307005: Socket wrench insert 1/4", SW 5, IEC 60900
9. 1.0 pcs. 7307006: Socket wrench insert 1/4", SW 6, IEC 60900
10. 1.0 pcs. 7307007: Socket wrench insert 1/4", SW 7, IEC 60900
11. 1.0 pcs. 7307008: Socket wrench insert 1/4", SW 8, IEC 60900
12. 1.0 pcs. 7307009: Socket wrench insert 1/4", SW 9, IEC 60900
13. 1.0 pcs. 7307010: Socket wrench insert 1/4", SW 10, IEC 60900
14. 1.0 pcs. 7307011: Socket wrench insert 1/4", SW 11, IEC 60900
15. 1.0 pcs. 7307012: Socket wrench insert 1/4", SW 12, IEC 60900
16. 1.0 pcs. 7307013: Socket wrench insert 1/4", SW 13, IEC 60900
17. 1.0 pcs. 7307014: Socket wrench insert 1/4", SW 14, IEC 60900
18. 1.0 pcs 7337003: Hexagon socket wrench insert, 1/4", SW 3, IEC 60900
19. 1.0 pcs. 7337004: Hexagon socket wrench insert, 1/4", SW 4, IEC 60900
20. 1.0 pcs 7337005: Hexagon socket wrench insert, 1/4", SW 5, IEC 60900
21. 1.0 pcs 7337006: Hexagon socket wrench insert, 1/4", SW 6, IEC 60900
22. 1,0 pcs. 7337008: Hexagon socket wrench insert, 1/4", SW 8, IEC 60900



Description	Material number
Plastic case 1/4" 22 pieces with foam inlay	7527000

## Plastic case with foam inlay 1/4" long, 22 pieces

- Case equipped with insulated tools as listed:

- 1 1.0 pcs. 7308300: Switch ratchet 1/4", 140 mm, IEC 60900
- 2 1.0 pcs. 7307160: T socket wrench 1/4", 160 mm., IEC 60900
- 3 1.0 pcs. 7307050: Extension 1/4", 50 mm, IEC 60900
- 4 1.0 pcs. 7307075: Extension 1/4", 75 mm, IEC 60900
- 5 1.0 pcs. 7307100: Extension 1/4", 105 mm, IEC 60900
- 6 1.0 pcs. 7307150: Extension 1/4", 150 mm, IEC 60900
- 7 1.0 pcs. 7327010: Torx insert 1/4", TX10, IEC 60900
- 8 1.0 pcs. 7327015: Torx insert 1/4", TX15, IEC 60900
- 9 1.0 pcs. 7327020: Torx insert 1/4", TX20, IEC 60900
- 10 1.0 pcs. 7327025: Torx insert 1/4", TX25, IEC 60900
- 11 1.0 pcs. 7327027: Torx insert 1/4", TX27, IEC 60900
- 12 1.0 pcs 7317004: Socket wrench insert 1/4", SW 4, extended, IEC 60900
- 13 1.0 pcs 7317005: Socket wrench insert 1/4", SW 5, extended, IEC 60900
- 14 1.0 pcs 7317006: Socket wrench insert 1/4", SW 6, extended, IEC 60900
- 15 1.0 pcs 7317007: Socket wrench insert 1/4", SW 7, extended, IEC 60900
- 16 1.0 pcs 7317008: Socket wrench insert 1/4", SW 8, extended, IEC 60900
- 17 1.0 pcs 7317009: Socket wrench insert 1/4", SW 9, extended, IEC 60900
- 18 1.0 pcs 7317010: Socket wrench insert 1/4", SW 10, extended, IEC 60900
- 19 1.0 pcs 7317011: Socket wrench insert 1/4", SW 11, extended, IEC 60900
- 20 1.0 pcs 7317012: Socket wrench insert 1/4", SW 12, extended, IEC 60900
- 21 1.0 pcs 7317013: Socket wrench insert 1/4", SW 13, extended, IEC 60900
- 22 1.0 pcs. 7317014: Socket wrench insert 1/4", SW 14, extended, IEC 60900



Description	Material number
Plastic case 1/4", 22 pieces long Set, with foam inlay	7528000



## cleaning sets

### LV cleaning set BSD with mirror

- with insulated mirror
- cleaning by suction up to 1000V
- to use also for wet cleaning

#### application area:

- cable distribution box
- indoor distribution systems
- control systems

- plastic transport case
- according to IEC 60900
- individual parts on request



- 1,0 Stck. 7481000 : case, empty, plastic, size : 530 x 390 x 170 mm
- 1,0 Stck. 7481380 : suction tube with handhold 1000 V length.: 380 mm
- 1,0 Stck. 7481200 : extension 200 mm, 1000 V
- 1,0 Stck. 7481300 : extension 300 mm, 1000 V
- 1,0 Stck. 7481400 : extension 400 mm, 1000 V
- 1,0 Stck. 7481001 : angle 45° LV cleaning set 1000 V
- 1,0 Stck. 7481006 : angle 90° LV cleaning set 1000 V
- 1,0 Stck. 7481011 : brush cylindrical diameter 25 mm 1000V
- 1,0 Stck. 7481012 : brush conical diameter: 25 mm 1000 V
- 1,0 Stck. 7481013 : adapter 40/25 mm for brushes and nozzles 1000 V
- 1,0 Stck. 7481004 : flat nozzle 35 mm 1000 V for cleaning smooth surfaces
- 1,0 Stck. 7481002 : flat nozzle 55 mm 1000 V for cleaning smooth surfaces
- 1,0 Stck. 7481005 : flat nozzle beveled 1000 V width: 35 mm, angle: 60°
- 1,0 Stck. 7481010 : round nozzle with brush 1000 V diameter: 25 mm
- 1,0 Stck. 7481017 : cleaning sponge 40 mm for set-components
- 1,0 Stck. 7481016 : cleaning sponge 20 mm for set-components
- 1,0 Stck. 7481003 : adapter suction hose 1000 V
- 1,0 Stck. 7481077 : insulated mirror 1000 V for LV- cleaning set 90 mm
- 1,0 Stck. 050008 : null null
- 1,0 Stck. 050009 : null null



**1000 V**

Description	Material number
cleaning set, 1000 V, with insulating mirror	7480010

## LV cleaning set BSD without mirror

- without insulated mirror
- cleaning by suction up to 1000V
- to use also for wet cleaning


### application area:

- cable distribution box
- indoor distribution systems
- control systems

- plastic transport case
- according to IEC 60900
- individual parts on request



- 1 1,0 Stck. 7481000 : case, empty, plastic, size : 530 x 390 x 170 mm
- 2 1,0 Stck. 7481380 : suction tube with handhold 1000 V length.: 380 mm
- 3 1,0 Stck. 7481200 : extension 200 mm, 1000 V
- 4 1,0 Stck. 7481300 : extension 300 mm, 1000 V
- 5 1,0 Stck. 7481400 : extension 400 mm, 1000 V
- 6 1,0 Stck. 7481001 : angle 45° LV cleaning set 1000 V
- 7 1,0 Stck. 7481006 : angle 90° LV cleaning set 1000 V
- 8 1,0 Stck. 7481011 : brush cylindrical diameter 25 mm 1000V
- 9 1,0 Stck. 7481012 : brush conical diameter: 25 mm 1000 V
- 10 1,0 Stck. 7481013 : adapter 40/25 mm for brushes and nozzles 1000 V
- 11 1,0 Stck. 7481004 : flat nozzle 35 mm 1000 V for cleaning smooth surfaces
- 12 1,0 Stck. 7481002 : flat nozzle 55 mm 1000 V for cleaning smooth surfaces
- 13 1,0 Stck. 7481005 : flat nozzle beveled 1000 V width: 35 mm, angle: 60°
- 14 1,0 Stck. 7481010 : round nozzle with brush 1000 V diameter: 25 mm
- 15 1,0 Stck. 7481017 : cleaning sponge 40 mm for set-components
- 16 1,0 Stck. 7481016 : cleaning sponge 20 mm for set-components
- 17 1,0 Stck. 7481003 : adapter suction hose 1000 V

 **1000 V**

Description	Material number
cleaning set, 1000 V, without insulating mirror	7480009

## empty case, LV cleaning set

- for carrying and in accordance with the storage of the equipment pieces of the low voltage cleaning set
- black plastic, without contents



Description	Material number
case, empty, plastic, size : 530 x 390 x 170 mm	7481000

## suction tube with handhold, LV cleaning set

- as operating tube with limiting disk and handhold
- with under and upper connecting unit
- diameter 40 mm
- according to IEC 60900
- with permanent laser marking



 **1000 V**

Description	Material number
suction tube with handhold 1000 V length.: 380 mm	7481380

### extension 1kV, LV cleaning set

- insulating tube diameter 40 mm
- with under and upper connecting unit
- according to IEC 60900
- with permanent laser marking



 **1000 V**

Description	Material number
extension 200 mm, 1000 V	7481200
extension 300 mm, 1000 V	7481300
extension 400 mm, 1000 V	7481400

### adapter suction tube, LV cleaning set

- for sticking onto the suction tube extension
- rotatable, 120° angled, with vacuum regulation
- suitable for suction hoses ø 35 mm
- according to IEC 60900:2004



Description	Material number
adapter suction hose 1000 V	7481003

### angle, 45°, LV cleaning set

- 45° angle
- 40 mm diameter
- with under and upper connecting unit
- according to IEC 60900



 **1000 V**

Description	Material number
angle 45° LV cleaning set 1000 V	7481001

### angle, 90°, LV cleaning set

- 90° angle
- 40 mm diameter
- with under and upper connecting unit
- according to IEC 60900



 **1000 V**

Description	Material number
angle 90° LV cleaning set 1000 V	7481006

### brush cylindrical, LV cleaning set

- ø 25 mm tube diameter
- without brush bound head
- cylindrical bristles
- according to IEC 60900



 **1000 V**

Description	Material number
brush, cylindrical 1000V without brush bound head	7481100

### brush cylindrical, LV cleaning set

- ø 25 mm tube diameter
- cylindrical bristles
- according to IEC 60900



 **1000 V**

Description	Material number
brush cylindrical diameter 25 mm 1000V	7481011

### brush conical, LV cleaning set

- ø 25 mm tube diameter
- without brush bound head
- conical bristles
- according to IEC 60900



 **1000 V**

Description	Material number
brush, conical 1000V without brush bound head	7481150

### brush conical, LV cleaning set

- ø 25 mm tube diameter
- conical bristles
- according to IEC 60900



 **1000 V**

Description	Material number
brush conical diameter: 25 mm 1000 V	7481012

### adapter 40/25 mm, for small staff brush LV cleaning

- ø 25 mm tube diameter
- reduces from 40 mm vacuum tube to 25 mm tube
- for brushes and nozzles



 **1000 V**

Description	Material number
adapter 40/25 mm for brushes and nozzles 1000 V	7481013

## cleaning sponge

- for set components
- ø 20 mm tube diameter - Art-Nr. 7 481 016
- ø 40 mm tube diameter - Art-Nr. 7 481 017
- not allowed for live working!



Description	Material number
cleaning sponge 20 mm for set-components	7481016
cleaning sponge 40 mm for set-components	7481017

## flat nozzle 35 mm, LV cleaning set

- 25 mm tube diameter
- for cleaning of smooth surfaces , for example floors, walls or similar



 1000 V

Description	Material number
flat nozzle 35 mm 1000 V for cleaning smooth surfaces	7481004

## flat nozzle, beveled, LV cleaning set

- nozzle opening 60°, nozzle width 35 mm
- tube diameter 25 mm
- beveled



 1000 V

Description	Material number
flat nozzle beveled 1000 V width: 35 mm, angle: 60°	7481005

### round nozzle with brush, LV cleaningset

- ø 25 mm tube diameter



 **1000 V**

Description	Material number
round nozzle with brush 1000 V diameter: 25 mm	7481010

### flat nozzle 55 mm, LV cleaning set

- nozzle width: 55 mm, length: 200 mm
- ø 40 mm
- for cleaning of smooth surfaces for example floors, walls or similar

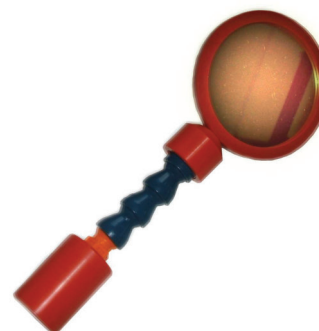


 **1000 V**

Description	Material number
flat nozzle 55 mm 1000 V for cleaning smooth surfaces	7481002

### insulated mirror for LV cleaning set

- insulating mirror glass, ø 90 mm
- even insulating when glass is damaged
- for checking hidden components
- connectable with suction tubes and extensions 40 mm
- up to 1000 V



 **1000 V**

Description	Material number
insulated mirror 1000 V for LV- cleaning set 90 mm	7481077

## Blow-out pistol 1000 V

- for compressed air cleaning of low voltage systems up to 1000 V AC and 1500 V DC
- EN 60900
- Type testing according to BSD factory standard for NS cleaning equipment (10 kV / 2 cm)
- with slip guard
- a compressor, hand blower, nitrogen or dried compressed air can be used to generate the air flow
- Application together with the BSD working instruction AW-LV 3/12 "Cleaning by blowing out NS systems".



### 1000 V

Description	Material number
Blow-out pistol 1000 V for compressed air cleaning	7481007

## all-purpose vacuum GAS 25

- to vacuum and absorb of all dusts and not health-endangering materials
- filter volume of 25 l
- with electrical outlet and remote-controll-automatic for electric power tools
- for wet- and dry vacuum
- max. air flow: 57 l/s
- max. vacuum: 230 mbar
- paper filter bag (5 pieces/pack) for one time use
- cellulose folded filter for repeated use, dry vacuum
- polyester folded filter for repeated use, wet vacuum
- machine weight: 10 kg



Description	Material number
all-purpose vacuum GAS 25 1200 W	7450050
filter bag (paper) (5 pieces) for GAS 25	7450005
folded filter, cellulose for GAS 25	7450001
folded filter, polyester for GAS 25	7450002

## combi-set cleaning for LV-installations

All components of the cleaning set for dry cleaning can be attached to commercial industrial vacuum cleaners. With the wet cleaning components can firmly adhering dirt be removed. Only voltage proof cleaning fluids may use for cleaning. Accessories and spare parts are available separately. SLX-Top may only be used in installation where no switching function through relay or the like can be made. In other installations you have to use SLX - 500. (deliverable on request)



- 1,0 Stck. 7480210 : storage case for low-voltage combi cleaning set
- 1,0 Stck. 7481380 : suction tube with handhold 1000 V length.: 380 mm
- 1,0 Stck. 7481012 : brush conical diameter: 25 mm 1000 V
- 1,0 Stck. 7401000 : flat brush, cranked, width 1,5 inch, IEC 60900:2004
- 0,4 Stck. 7492023 : sponge with hook and loop (5 piece) size : 150 x 30 x 20 mm,
- 0,4 Stck. 7492053 : cleaning sponge (5 piece) cuboid 150 x 70 x 40 mm
- 1,0 Stck. 7481026 : coupling incl. working plate 1000 V, size 70 mm x 30 mm
- 1,0 Stck. 7481056 : working head, simple, stiff 1000 V
- 1,0 Stck. 7481005 : flat nozzle beveled 1000 V width: 35 mm, angle: 60°
- 1,0 Stck. 7481013 : adapter 40/25 mm for brushes and nozzles 1000 V
- 1,0 Stck. 7481036 : Adapter dry cleaning / wet cleaning 1000 V (toothed coupling)
- 1,0 Stck. 7481073 : reducer  $\varnothing$  35 /  $\varnothing$  39 for low voltage cleaning set
- 1,0 Stck. 7490024 : liquid for wet cleaning SLX-Top, 400 ml aerosol spray

### 1000 V

Description	Material number
cleaning set, 1000 V dry- and wet-cleaning	7480020



## wet cleaning set for LV-installations

Equipment for wet cleaning with special cleaning fluids.

Only voltage-proof fluids may be used.

SLX-Top may only be used in installation where no switching function through relay or the like can be made. In other installations you have to use SLX - 500. (deliverable on request)

- 1 1.0 pce. 7480210 : storage case for LV - wet cleaning set
- 2 1.0 pce. 7481380 : suction tube with handling zone 1000 V Lg: 380 mm
- 3 1.0 pce. 7481036 : adapter dry / wet cleaning 1000 V
- 4 1.0 pce. 7481056 : tool, single, rigid 1000 V
- 5 1.0 pce. 7481062 : tool, single, bended, rigid 1000 V
- 6 1.0 pce. 7481026 : retainer incl. working plate 1000 V, size: 70 x 30 mm
- 7 1.0 pce. 7492052 : cleaning sponge (5 pieces) cuboid 150 x 50 x 50 mm
- 8 1.0 pce. 7482053 : cleaning sponge (5 pieces) cuboid 150 x 70 x 40 mm
- 9 1.0 pce. 7482054 : cleaning sponge (5 pieces) saw 150 x 105 x 40 mm
- 10 1.0 pce. 7482055 : cleaning sponge (5 pieces) fir tree 150 x 105 x 40 mm
- 11 1.0 pce. 7482022 : sponge with hook and loop (5 pieces) size: 150 x 60 x 20 mm
- 12 1.0 pce. 7482023 : sponge with hook and loop (5 pieces) size: 150 x 30 x 20 mm



### 1000 V

Description	Material number
wet cleaning set up to 1000 V	7480200
liquid for wet cleaning SLX-Top, 400 ml aerosol spray	7490024

## Semicircular head brush



Description	Material number
Semicircular head brush,1000 V, length: 1500 mm	7401140
Semicircular head brush,1000 V, length: 800 mm	7401160

**hacksaw 250 mm**

- PVC-insulated, shock-resistant
- saw blade chrome-vanadium-steel, not insulated, burnished
- according to IEC 60900

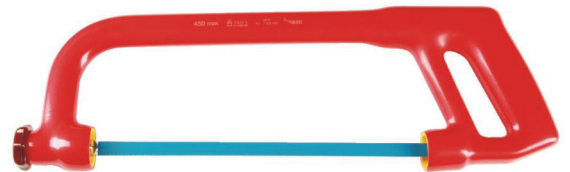


**1000 V**

Description	Material number
hacksaw, 250 mm, VDE, IEC 60900:2004	7313250
saw blade for metal 150 mm	1182150

**hacksaw 450 mm**

- PVC-insulated, shock-resistant
- saw blade chrome-vanadium-steel, not insulated
- with a plastic screw for inserting a blade
- according to IEC 60900



**1000 V**

Description	Material number
hacksaw, 450 mm, VDE, IEC 60900:2004	7336450
metal saw blade 300 mm HSS bi-flexible	1181300

**dismantling saw**

- for sawing up the mantle of a cable with adjustable stop
- changeable saw blades
- PVC-insulated, shock-resistant
- according to IEC 60900



**1000 V**

Description	Material number
dismantling saw, 320 mm, IEC 60900:2004	7314300
saw blade 150 mm, for dismantling saw 320 mm	7314310

## counter holder for bolt connection

- out of high alloyed steel, forged
- PVC-insulated, shock-resistant
- according to IEC 60900



 **1000 V**

Description	Material number
counter holder for bolt connection, 18 mm, IEC 60900:2004	7315002
counter holder for bolt connection, 28 mm, IEC 60900:2004	7315000
counter holder for bolt connection, 40 mm, IEC 60900:2004	7315001

## counter holder for bolt connection, adjustable

- PVC-insulated, shock-resistant
- for screw connectors up to 40 mm, adjustable
- also for street lighting useable
- according to IEC 60900



 **1000 V**

Description	Material number
counter holder for bolt connection, 15 - 42 mm, adjustable, IEC 60900:2004	7315500

## tweezers

- out of spring steel, chrome-plated
- handle surface profiled
- PVC-insulated
- according to IEC 60900



 **1000 V**

Description	Material number
tweezers, 150 mm, straight, IEC 60900:2004	7121150
tweezers, 150 mm, bended, IEC 60900:2004	7121151

## inspection mirror

- PVC-insulated, shock-resistant
- according to IEC 60900



### 1000 V

Description	Material number
inspection mirror all-insulated, IEC 60900:2004	7343022

## flat brush

- natural bristles



### 1000 V

Description	Material number
flat brush, straight, width 1 inch, IEC 60900:2004	7401201
flat brush, cranked, width 1 inch, IEC 60900:2004	7401010
flat brush, cranked, width 1,5 inch, IEC 60900:2004	7401000
flat brush, cranked, width 2 inch, IEC 60900:2004	7401020

## slim hand brush

- hand brush with hard bristles for dry cleaning
- all-plastic
- length 280 mm
- color red
- according to IEC 60900



### 1000 V

Description	Material number
small hand brush, 280 mm, red, IEC 60900:2004	7401025

## hole punch

- with diagonal handhold
- to cut out of cables for measuring purposes
- according to IEC 60900



 **1000 V**

Description	Material number
hole punch 4 mm, insulated with T-handle, IEC 60900:2004	7342004

## cleaning brush for cables insulated for LV

- for cleaning Cu- and Al- overhead lines up to 150 mm<sup>2</sup>
- handhold PVC-insulated, shock-resistant, with anti slipping protection
- cable cleaning brush in 5 and 15 cm length available
- according to IEC 60900



 **1000 V**

Description	Material number
cleaning brush for cable, Al 5 cm, IEC 60900:2004	7427001
cleaning brush for cable, Al 15 cm, IEC 60900:2004	7427002
cleaning brush for cable, Cu 5 cm, IEC 60900:2004	7427003
cleaning brush for cable, Cu 15 cm, IEC 60900:2004	7427004

## folding meter

- all-plastic
- length: 1m
- white
- according to 60900



 **1000 V**

Description	Material number
folding meter white, 1m, IEC 60900:2004	7343101

## aligning tool, universal

- for the alignment of sector-shaped conductors
- sizes: 50mm<sup>2</sup> up to 240mm<sup>2</sup>
- out of shock-resistant plastic
- length: 250 mm
- according to IEC 60900



 1000 V

Description	Material number
aligning tool, universal 50 mm <sup>2</sup> - 240 mm <sup>2</sup> , IEC 60900:2004	7509500

## insulating blocking plug

- according to BGV 125 and DIN 40008
- insulating stoppers for screw-fuse-elements E 14, 27, 33
- for indoor systems
- E 14 ø 20 mm, length 40 mm
- E 27, 33 ø 45 mm, length 55 mm



Description	Material number
insulating blocking plug E 14 DIN 40008	7425100
insulating blocking plug E 27, E 33 DIN 40008	7425101

## danger sign

- out of PVC
- with the inscription: "Arbeiten unter Spannung / Nichts verändern!"  
(live working / change anything)
- triangular shape



Description	Material number
danger sign 21,0 x 24,5 cm	7427000

## industrial blocking lid

- safety device against restart (VDE 0105)
- conspicuous red top with the inscription "In Arbeit - gesperrt" (In work - blocked)
- will be fixed with special keys



Description	Material number
industrial blocking lid D 01 for thread E 14	8148005
industrial blocking lid ND for thread E 16	8148004
industrial blocking lid D 02 for thread E 18	8148006
industrial blocking lid D II for thread E 27	8148002
industrial blocking lid D III for thread E 33	8148003
electrical utilities blocking lid D 01 for thread E 14	8148007
electrical utilities blocking lid ND for thread E 16	8148008
electrical utilities blocking lid D 02 for thread E 18	8148009
electrical utilities blocking lid D II for thread E 27	8148010
electrical utilities blocking lid D III for thread E 33	8148011

## special key for blocking lid



Description	Material number
special wrench for blocking lid type "industrial"	8149000
special wrench for blocking lid type "Antlilux"	8149100