





SPECIAL TOOLS FOR PHOTOVOLTAICS

ALL WORK STEPS WELL CO-ORDINATED FOR BEST RESULTS



97 91 01

There is a steadily increase of electrical power produced by photovoltaic plants (PV systems). The output from this environmentally friendly source of energy rises each year by about 20 % worldwide. However, the share in the total power generation is still below 0.3 % worldwide, which means there is still rich potential for growth. This makes photovoltaic a profitable sphere of activities for trade and for electrical contractors.

The photovoltaic tools from KNIPEX, customized for cutting, stripping and crimping the special photovoltaic cables and connectors, offer professional and reliable work results and ensure that the relevant requirements, such as e.g. Ral GZ 966, are met.

The requirements for a technically perfect installation of the photovoltaic systems are very high. It is a demanding task to create an electrically efficient and constantly reliable connection in combination with high mechanical requirements.



for contacts from:

Huber + Suhner
Multi-Contact
Hirschmann
Tyco
Wieland and others

Tool Case for Photovoltaics

Article No. 97 91 01:
 all tools required for assembly
 in one case equipped with
 crimping dies for standard
 solar cable connectors

SPECIAL PHOTOVOLTAIC RANGE FROM KNIPEX



Cut effected with a Cable Shears: easy, clean cut without any deformation of the cable.



High demands in terms of results require the use of high-quality special tools also. These must be adapted precisely to suit systems from various manufacturers.



As the systems are not compatible with each other, each type of connector requires a set of individual crimping dies. The range is completed by locators to support quick, easy and precise work.

Huber + Suhner



Multi-Contact MC3



Multi-Contact MC4



Hirschmann



Tyco



Wieland



Locators
 for an exact connector
 positioning in the crimp profile



01

Combination Pliers Chrome Vanadium









DIN ISO 5746 IEC 60900 DIN EN 60900



01 06 190

1000 V   

- for heaviest duty
- with gripping zones for flat and round material, suitable for versatile use
- with cutting edges for soft, hard and piano wire
- long cutting edges for thicker cables
- cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC
- particularly wear resistant gripping jaws; hardness of the gripping jaws approx. 53 HRC
- Chrome vanadium heavy-duty steel, forged, oil-hardened

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Cutting capacities | | | |  g |
|-------------|--------------|---------|--|---------------|--|---|---|---|--|--|
| | | | | | |  Ø mm |  Ø mm |  Ø mm |  mm ² | |
| 01 06 160 | 040729 | 160 | 1000 V    | chrome plated | insulated with multi-component grips, VDE-tested | 2.0 | 1.5 | 10.0 | 16.0 | 220 |
| 01 06 190 | 040415 | 190 | | | | 2.5 | 2.0 | 13.0 | 25.0 | 320 |

08

Mini Combination Pliers



08 05 110

- compact combination pliers for professionals and hobbyists
- with gripping zones for flat and round material, suitable for versatile use
- with cutting edges for soft and hard wire
- cutting edges additionally induction hardened, cutting edge hardness approx. 60 HRC
- Vanadium electric steel; forged, oil-hardened

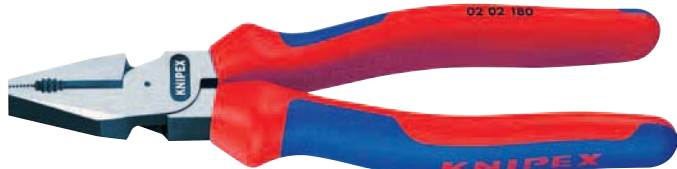
| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Cutting capacities | | | |  g |
|-------------|--------------|---------|---|---------------|----------------------------|---|---|---|--|--|
| | | | | | |  Ø mm |  Ø mm |  Ø mm |  mm ² | |
| 08 05 110 | 034957 | 110 |   | chrome plated | with multi-component grips | 2.5 | 1.6 | 9.0 | 10.0 | 85 |

High Leverage Combination Pliers

DIN ISO 5746



02 01 180



02 02 180



02 05 180



02 06 180



02 07 225



Easier cutting. Powerful gripping, bending and pulling.

- 35 % less effort required than with conventional combination pliers
- easier work due to optimised leverage
- with cutting edges (hardness approx. 63 HRC) for soft and hard wire and piano wire
- long cutting edges for thicker cables
- with gripping zones for flat and round material, suitable for versatile use
- High-grade special tool steel, forged, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | Pliers | Head | Handles | Cutting capacities | | | | g |
|-------------|-----------------|---------|----------|----------------|----------|--|--------------------|------|------|------|-----|
| | | | | | | | Ø mm | Ø mm | Ø mm | mm² | |
| 02 01 180 | 033134 | 180 | | black anodized | polished | plastic coated | 2.5 | 2.0 | 11.5 | 16.0 | 202 |
| 02 01 200 | 039679 | 200 | | | | | 2.8 | 2.2 | 13.0 | 25.0 | 298 |
| 02 01 225 | 013198 | 225 | | | | | 3.0 | 2.5 | 14.0 | 25.0 | 358 |
| 02 02 180 | 034896 | 180 | | black anodized | polished | with multi-component grips | 2.5 | 2.0 | 11.5 | 16.0 | 240 |
| 02 02 200 | 034902 | 200 | | | | | 2.8 | 2.2 | 13.0 | 25.0 | 342 |
| 02 02 225 | 043379 | 225 | | | | | 3.0 | 2.5 | 14.0 | 25.0 | 409 |
| 02 05 180 | 043072 | 180 | | chrome plated | | with multi-component grips | 2.5 | 2.0 | 11.5 | 16.0 | 238 |
| 02 05 200 | 043089 | 200 | | | | | 2.8 | 2.2 | 13.0 | 25.0 | 342 |
| 02 05 225 | 010005 | 225 | | | | | 3.0 | 2.5 | 14.0 | 25.0 | 400 |
| 02 06 180 | 010012 | 180 | | chrome plated | | insulated with multi-component grips, VDE-tested | 2.5 | 2.0 | 11.5 | 16.0 | 247 |
| 02 06 200 | 010029 | 200 | ⚡ 1000 V | | | | 2.8 | 2.2 | 13.0 | 25.0 | 343 |
| 02 06 225 | 010036 | 225 | | | | | 3.0 | 2.5 | 14.0 | 25.0 | 401 |
| 02 07 200 | 022299 | 200 | | chrome plated | | with plastic dipped insulation, VDE-tested | 2.8 | 2.2 | 13.0 | 25.0 | 380 |
| 02 07 225 | 022305 | 225 | ⚡ 1000 V | | | | 3.0 | 2.5 | 14.0 | 25.0 | 486 |

Combination Pliers

DIN ISO 5746



03 01 180



03 02 180



03 05 180



03 06 180



- with gripping zones for flat and round material, suitable for versatile use
- with cutting edges for soft and hard wire
- long cutting edges for thicker cables
- cutting edges additionally induction hardened, cutting edge hardness approx. 60 HRC
- Special tool steel, forged, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | Pliers | Head | Handles | Cutting capacities | | | | g |
|-------------|-----------------|---------|--|----------------|----------|--|--------------------|------|------|------|-----|
| | | | | | | | Ø mm | Ø mm | Ø mm | mm² | |
| 03 00 180 | 015161 | 180 | | black anodized | polished | | 3.4 | 2.2 | 12.0 | 16.0 | 205 |
| 03 00 200 | 015178 | 200 | | black anodized | polished | | 3.8 | 2.5 | 13.0 | 16.0 | 255 |
| 03 00 250 | 015185 | 250 | | black anodized | polished | | 3.8 | 2.5 | 15.0 | 25.0 | 444 |
| 03 01 140 | 015192 | 140 | | black anodized | polished | plastic coated | 2.8 | 1.8 | 9.0 | 10.0 | 112 |
| 03 01 160 | 013235 | 160 | | black anodized | polished | plastic coated | 3.1 | 2.0 | 10.0 | 16.0 | 187 |
| 03 01 180 | 013242 | 180 | | black anodized | polished | plastic coated | 3.4 | 2.2 | 12.0 | 16.0 | 216 |
| 03 01 200 | 013259 | 200 | | black anodized | polished | plastic coated | 3.8 | 2.5 | 13.0 | 16.0 | 276 |
| 03 01 250 | 015222 | 250 | | black anodized | polished | plastic coated | 3.8 | 2.5 | 15.0 | 25.0 | 489 |
| 03 02 160 | 023203 | 160 | | black anodized | polished | with multi-component grips | 3.1 | 2.0 | 10.0 | 16.0 | 223 |
| 03 02 180 | 023197 | 180 | | black anodized | polished | with multi-component grips | 3.4 | 2.2 | 12.0 | 16.0 | 254 |
| 03 02 200 | 034940 | 200 | | black anodized | polished | with multi-component grips | 3.8 | 2.5 | 13.0 | 16.0 | 322 |
| 03 05 140 | 039730 | 140 | | chrome plated | | with multi-component grips | 2.8 | 1.8 | 9.0 | 10.0 | 139 |
| 03 05 160 | 039518 | 160 | | chrome plated | | with multi-component grips | 3.1 | 2.0 | 10.0 | 16.0 | 222 |
| 03 05 180 | 034933 | 180 | | chrome plated | | with multi-component grips | 3.4 | 2.2 | 12.0 | 16.0 | 254 |
| 03 05 200 | 041146 | 200 | | chrome plated | | with multi-component grips | 3.8 | 2.5 | 13.0 | 16.0 | 324 |
| 03 06 160 | 021902 | 160 | | chrome plated | | insulated with multi-component grips, VDE-tested | 3.1 | 2.0 | 10.0 | 16.0 | 228 |
| 03 06 180 | 021926 | 180 | | chrome plated | | insulated with multi-component grips, VDE-tested | 3.4 | 2.2 | 12.0 | 16.0 | 264 |
| 03 06 200 | 033776 | 200 | | chrome plated | | insulated with multi-component grips, VDE-tested | 3.8 | 2.5 | 13.0 | 16.0 | 326 |
| 03 07 160 | 015307 | 160 | | chrome plated | | with plastic dipped insulation, VDE-tested | 3.1 | 2.0 | 10.0 | 16.0 | 254 |
| 03 07 180 | 015314 | 180 | | chrome plated | | with plastic dipped insulation, VDE-tested | 3.4 | 2.2 | 12.0 | 16.0 | 285 |
| 03 07 200 | 015321 | 200 | | chrome plated | | with plastic dipped insulation, VDE-tested | 3.8 | 2.5 | 13.0 | 16.0 | 339 |
| 03 07 250 | 015345 | 250 | | chrome plated | | with plastic dipped insulation, VDE-tested | 3.8 | 2.5 | 15.0 | 25.0 | 597 |

09

Lineman's Pliers

American style

DIN ISO 5746 ASME B107.20



09 01 240



09 02 240



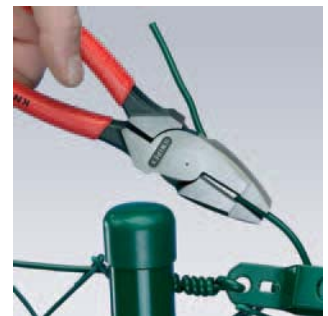
09 11 240



- solid construction for heaviest strain; universally applicable
- high transmission ratio for easy cutting
- requires 40 % less effort compared with conventional combination pliers thanks to optimised transmission ratio
- ergonomically optimised handle shape for firm contact to the hand and fatigue reducing operation
- particularly effective cross-hatched knurled gripping zone in the jaws – for strong gripping and pulling
- additional gripping zone below the joint for powerful leverage and pressing performance
- with cutting edges for soft and hard wire
- cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC
- Vanadium electric steel; forged, oil-hardened

09 11 240 / 09 12 250

with fish tape puller in the joint gap; with universal mandrel crimping point below the joint



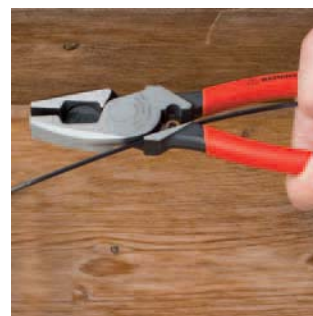
Cross-hatched, knurled gripping zone for firm gripping and pulling, e.g. for fence construction



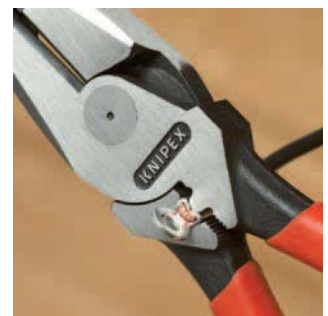
Gripping zone below the joint for powerful leverage



Long cutting edges for cutting flat cables



09 11/12 240: fish tape puller in the joint gap



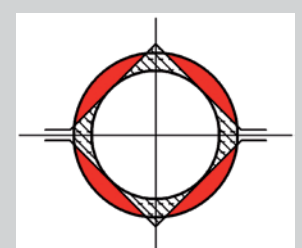
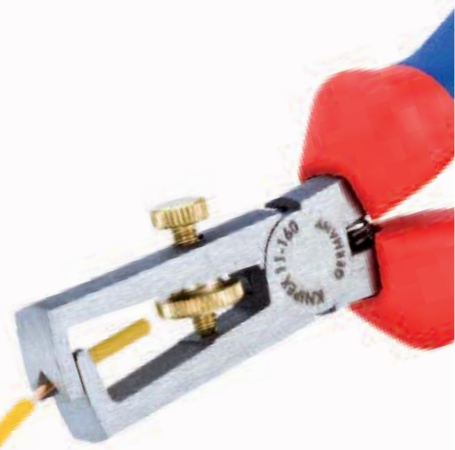
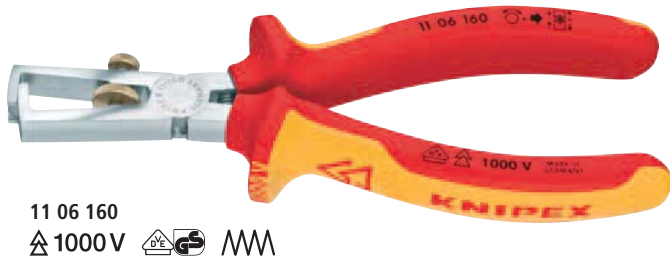
09 11/12 240: universal mandrel crimping area below the joint

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Head | Handles | Cutting capacities | | ⚖ g |
|-------------|-----------------|---------|--|--------------------|----------|-------------------------------|--------------------|------|--------|
| | | | | | | | Ø mm | Ø mm | |
| 09 01 240 | 064992 | 240 | | black atramentized | polished | with non-slip plastic coating | 4.6 | 3.0 | 435 |
| 09 02 240 | 065005 | 240 | | black atramentized | polished | with multi-component grips | 4.6 | 3.0 | 470 |
| 09 11 240 | 071952 | 240 | | black atramentized | polished | with non-slip plastic coating | 4.6 | 3.0 | 435 |
| 09 12 240 | 071969 | 240 | | black atramentized | polished | with multi-component grips | 4.6 | 3.0 | 470 |

11

Insulation Strippers

- for single, multiple and fine stranded conductors with plastic or rubber insulation max. 5.0 mm dia. or resp. 10.0 mm² cable cross section
- easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut
- Special tool steel, forged, oil-hardened



Prismatic blade:
The red area is cut over four surfaces. Works with highly-elastic materials also.

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Head | Handles | Stripping capacities | | AWG | g |
|-------------|--------------|---------|-----------|-----------------------|----------|---|----------------------|-----------------|-----|-----|
| | | | | | | | Ø mm | mm ² | | |
| 11 01 160 | 013556 | 160 | MM | black atramentized | polished | plastic coated | 5.0 | 10.0 | 7 | 131 |
| 11 02 160 | 023180 | 160 | MM | black atramentized | polished | with multi-component grips | 5.0 | 10.0 | 7 | 165 |
| 11 05 160 | 039570 | 160 | MM | chrome plated | | with multi-component grips | 5.0 | 10.0 | 7 | 157 |
| 11 06 160 | 021933 | 160 | 1000 V MM | chrome plated | | insulated with multi-component grips, VDE-tested | 5.0 | 10.0 | 7 | 166 |
| 11 07 160 | 015499 | 160 | 1000 V MM | chrome plated | | with plastic dipped insulation, VDE- tested | 5.0 | 10.0 | 7 | 180 |
| 11 12 160 | 034964 | 160 | | black atramentized | polished | with multi-component grips | 5.0 | 10.0 | 7 | 156 |
| 11 15 160 | 042471 | 160 | | chrome plated | | with multi-component grips | 5.0 | 10.0 | 7 | 155 |
| 11 17 160 | 015505 | 160 | 1000 V MM | chrome plated | | with plastic dipped insulation, VDE- tested | 5.0 | 10.0 | 7 | 181 |

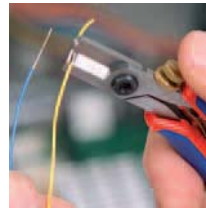
11
8

Electronics Wire Stripping Shears



11 82 130
✱ M

- for cutting and stripping single, multiple and fine-stranded conductors with diameters up to 1.0 mm
- easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut
- with opening spring
- Special tool steel, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | Head | Handles | Stripping capacities Ø mm | g |
|-------------|--------------|------|-----|----------|----------------------------|---------------------------|----|
| 11 82 130 | 071648 | 130 | ✱ M | polished | with multi-component grips | 0.03-1.0 | 75 |

11
9

Electronics Wire Stripper



11 92 140
✱ M

- for single, multiple and fine stranded cables having a diameter from 0.1 up to 0.8 mm, with plastic or rubber insulation
- easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut
- with opening spring
- the mirror polish together with a fine film of oil offer effective rust protection - no circuit faults caused by peeling chrome from plated tools
- Special tool steel, forged, oil-hardened

| Article No. | EAN 4003773- | ↔ mm | | Head | Handles | Stripping capacities Ø mm | g |
|-------------|--------------|------|-----|-----------------|----------------------------|---------------------------|----|
| 11 92 140 | 016908 | 140 | ✱ M | mirror polished | with multi-component grips | 0.1 - 0.8 | 99 |

12

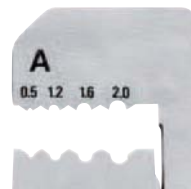
Insulation Strippers with shaped blades



12 11 180
M



- with replaceable blades for 4 or 6 different conductor cross-sections
- leave wire undamaged thanks to precision-ground blade shapes, even multi-stranded conductors are stripped gently
- during stripping, the wire is held firmly by clamping jaws
- with length stop for constant stripping length during repetitive work
- a spring leads the stripper back to the starting position
- Pliers body: aluminium
- Blade: special tool steel, oil-hardened



12 11 180: wire diameter in mm



12 21 180: wire cross-sections in mm²

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Stripping capacities Ø mm | Stripping capacities mm² | AWG | ⚖ g |
|-------------|-----------------|--------------------------------------|---|-----------------|--------------------|------------------------------|---|-----------------------------------|--------|
| 12 11 180 | 000792 | 180 | M | black lacquered | with plastic grips | 0.5 / 1.2 / 1.6 / 2.0 | | | 368 |
| 12 21 180 | 000815 | 180 | | | | | 0.5-0.75 / 1.0 / 1.5 / 2.5 / 4.0 / 6.0 | 20-19 / 17 / 15 / 13 / 11 / 10 | 366 |
| 12 19 180 | 022145 | 1 pair of spare blades for 12 11 180 | | | | | | | |
| 12 29 180 | 022152 | 1 pair of spare blades for 12 21 180 | | | | | | | |

12
12

Precision Insulation Strippers

with adapted blades

(PATENTED)



12 12 02



12 12 06



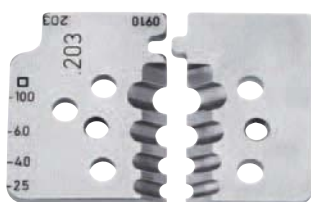
12 12 11



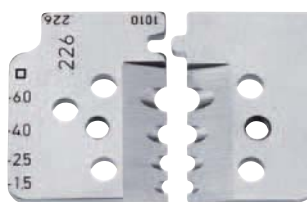
maximum cable cross-section (in mm²) per profile:



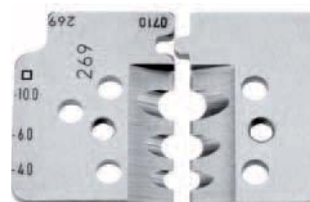
12 12 06



12 12 10



12 12 11



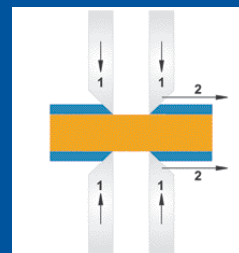
12 12 12

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Stripping capacities mm² | AWG | g |
|-------------|--------------|------|---|-----------|----------------------------|--------------------------|---------|-----|
| 12 12 02 | 048077 | 195 | | | | 0.03 - 2.08 | 32 - 14 | 447 |
| 12 12 06 | 049005 | 195 | W | burnished | with multi-component grips | 0.14 - 6.00 | 26 - 10 | 445 |
| 12 12 10 | 049012 | 195 | | | | 2.5 - 10.0 | 13 - 7 | 445 |
| 12 12 11 | 062998 | 195 | W | burnished | with multi-component grips | 1.5 - 6.0 | 15 - 10 | 449 |
| 12 12 12 | 073758 | 195 | | | | 4.0 - 10.0 | 11 - 7 | 450 |

| | | |
|----------|--------|------------------------------------|
| 12 19 02 | 049036 | 1 set of spare blades for 12 12 02 |
| 12 19 06 | 049043 | 1 set of spare blades for 12 12 06 |
| 12 19 10 | 049050 | 1 set of spare blades for 12 12 10 |
| 12 19 11 | 063001 | 1 set of spare blades for 12 12 11 |
| 12 19 12 | 073765 | 1 set of spare blades for 12 12 12 |

Precisely and reliably

Two pairs of blades (1) cut the insulation to a complete extent. Then the blade pairs move apart, and thus the insulation is removed form-fit (2). The pliers open automatically after the stripping procedure.



- form-fit stripping also of difficult-to-remove insulating materials such as PTFE, silicone, Radox®, Kapton® and rubber; multi-layer too
- a second pair of blades holds the remaining insulation reliably in place
- blades are shaped precisely to the respective conductor cross-section
- with an adjustable length stop when cutting the same stripping lengths during repetitive work
- Pliers body: steel
- Blade: special tool steel, oil-hardened

12 12 02

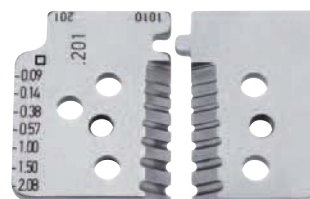
with additional cable guide for exact positioning of the cable in the stripping area of the blade

Kapton® is a registered trademark of E. I. du Pont de Nemours and Company

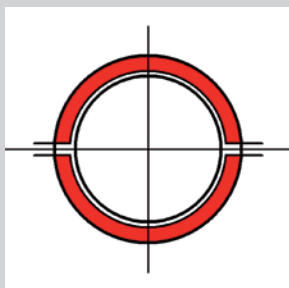
12 12 11 /

12 12 12 for solar cables

specially adapted to multi-layered and Radox® insulation; with additional cable support for a better centring of multi-layer insulated conductors in the stripping profiles



12 12 02



Principle of operation with adapted blades

Properly and precise stripping with an annular cut through the complete insulation. This is particularly important with conductors, which must be stripped precisely.

This works without any problem even with difficult materials such as Teflon®, Radox® and multilayer insulations.



12 12 02 with cable guide and length stop



Precise cutting of the insulation to a complete extent



Positive stripping thanks to precise shape of the blades



Automatic stripping of the insulation



12
40/50

Self-Adjusting Insulation Strippers

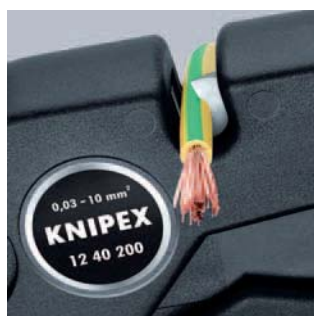


12 40 200
MM

- for single, multiple and fine stranded conductors with plastic or rubber insulation
- adapts automatically to the respective cable cross-section; prevents damage to the conductor
- cutting depth can be adjusted for different insulation materials
- with wire cutter for copper and aluminium wires, multiple stranded up to 10.0 mm² and single stranded up to 6.0 mm²
- smoothly operating mechanism
- stripping blades and clamping jaws easily replaceable
- low weight
- Body: plastic, fibreglass-reinforced
- Blade: special tool steel, oil-hardened

12 40 200

for thin ribbon cables up to 10.0 mm width in a single pass



Wire cutter for multiple stranded wire cables up to 10.00 mm²



Adjustable length stop



Precise stripping prevents damage to the conductor

| Article No. | EAN 4003773- | ↔ mm | | Stripping capacities mm ² | AWG | Length stop mm | ⚖ g |
|-------------|--------------|------|----|--------------------------------------|--------|----------------|-----|
| 12 40 200 | 026662 | 200 | MM | 0.03 - 10.0 | 32 - 7 | 3.0 - 18.0 | 202 |
| 12 50 200 | 034407 | 200 | MM | 2.5 - 16.0 | 13 - 5 | | 200 |

| | | | | | | | |
|----------|--------|---|--|--|--|--|--|
| 12 49 01 | 026679 | 1 pair of spare blades for 12 40 200 | | | | | |
| 12 49 02 | 026686 | 1 pair of spare clamping jaws for 12 40 200 | | | | | |
| 12 49 03 | 026693 | Spare length stop for 12 40 200 | | | | | |
| 12 59 01 | 034414 | 1 pair of spare blades for 12 50 200 | | | | | |
| 12 59 02 | 034421 | 1 pair of spare clamping jaws for 12 50 200 | | | | | |

12
42

KNIPEX MultiStrip 10

Automatic Insulation Stripper

PATENTED



12 42 195



Mode of operation of straight cutters

Models 12 40 200 and 12 42 195

An incision is made in the red area only.

Not suitable for highly-flexible or armoured insulation materials or for multi-layered insulation.

Patented mechanics

The incision depth of the stripping blade adjusts fully automatically to the diameter of the wire and accordingly also to the thickness of all standard insulating materials. There is no need for any manual adjustment which is still necessary when other conventional pliers with a wide wire-stripping range are used.

Stripping without re-adjustment from 0.03 to 10.0 mm²

- fully automatic adjustment to commercially used single-, multi- and fine-stranded conductors with standard insulation throughout the entire capacity range from 0.03 to 10.0 mm²
- no manual fine adjustment required, no damage to the conductors
- the clamping jaws made of steel with integrated cutting edge hold the cable in a way that prevents slipping without damaging the remaining insulation
- with wire cutter for copper and aluminium conductors, multi-stranded up to 10.0 mm² and single-stranded up to 6.0 mm²
- particularly smooth-running mechanics and very low weight
- replaceable blades block and length stop
- handle with soft-plastic zone for a steady grip
- Body: plastic, fibreglass-reinforced
- Blade: special tool steel, oil-hardened



Wire cutter for multiple stranded wire cables up to 10.0 mm²



Steel restrain jaws with cutting edges avoid skidding of the cable



Precise stripping from 0.03 to 10.0 mm² without re-adjustment

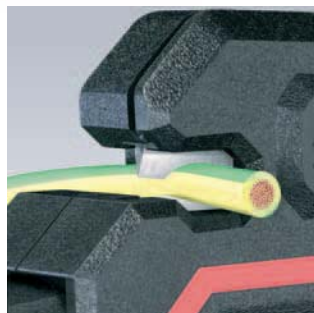
| Article No. | EAN 4003773- | ↔ mm | | Stripping capacities mm² | AWG | ⚖ g |
|-------------|--------------|----------------------------------|----|-----------------------------|--------|--------|
| 12 42 195 | 054580 | 195 | MM | 0.03 - 10.0 | 32 - 7 | 136 |
| 12 49 21 | 057581 | Spare blades block for 12 42 195 | | | | |
| 12 49 23 | 057604 | Spare length stop for 12 42 195 | | | | |

12
62

Automatic Insulation Stripper

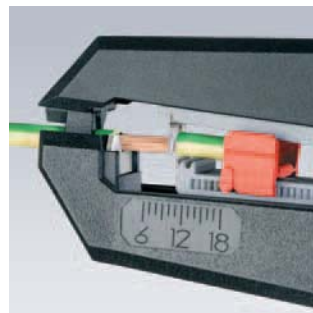


12 62 180
MM



Wire cutter up to 2.5 mm²

- compact standard tool at a favourable price for all current cable cross-sections and insulating materials
- for single, multiple and fine stranded cables of 0.2 up to 6.0 mm² with standard insulation
- adapts automatically to the respective cable cross-section; prevents damage to the conductor
- high operation comfort thanks to handy shape and low weight
- narrow head style for use in confined areas
- with wire cutter for copper and aluminium wires up to 2.5 mm²
- with adjustable length stop from 6.0 - 18.0 mm for cutting the same stripping lengths during repetitive work
- Body: plastic, fibreglass-reinforced
- Blades: special tool steel, oil-hardened, interchangeable



Precise stripping from 0.2 up to 6.0 mm²



Stripping in confined areas

| Article No. | EAN 4003773- | ↔ mm | | Stripping capacities mm² | AWG | ⚖ g |
|-------------|--------------|---------|----|-----------------------------|---------|--------|
| 12 62 180 | 054573 | 180 | MM | 0.2 - 6.0 | 24 - 10 | 151 |

| | | | | | | |
|----------|--------|--------------------------------------|--|--|--|--|
| 12 69 21 | 060093 | 1 pair of spare blades for 12 62 180 | | | | |
| 12 69 23 | 067115 | Spare length stop for 12 62 180 | | | | |

12
64

Automatic Insulation Stripper for flat cable



12 64 180
MM

- for PVC insulated flat cables up to a max. 12 mm width and 0.75 to 2.5 mm²
- adapts automatically to the various conductor heights; prevents damage to the conductor
- long stripping lengths possible
- blade replaceable
- smoothly operating mechanism
- low weight
- Body: plastic, fibreglass-reinforced
- Blade: special tool steel, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | Stripping capacities mm² | AWG | ⚖ g |
|-------------|--------------|---------|----|-----------------------------|---------|--------|
| 12 64 180 | 073284 | 180 | MM | 0.75 - 2.5 | 19 - 13 | 125 |

| | | | | | | |
|----------|--------|--------------------------------------|--|--|--|--|
| 12 69 31 | 073932 | 1 pair of spare blades for 12 64 180 | | | | |
|----------|--------|--------------------------------------|--|--|--|--|

12
80

Mini Stripping Tool



12 80 100 SB
MM

- precise stripping, stepwise adjustment to the conductor diameters
- with wire cutter
- adjustable length stop from 4.0 - 15.0 mm
- with locking device
- Housing: plastic, impact-proof

12 80 040 SB

for thin copper conductors dia. 0.12 to 0.4 mm



| Article No. | EAN 4003773- | ↔ mm | | Stripping capacities Ø mm | AWG | ⚖ g |
|--------------|--------------|---------|----|------------------------------|---------|--------|
| 12 80 040 SB | 071655 | 100 | MM | 0.12 - 0.4 | 36 - 26 | 35 |
| 12 80 100 SB | 043119 | 100 | | 0.30 - 1.0 | 28 - 18 | 34 |

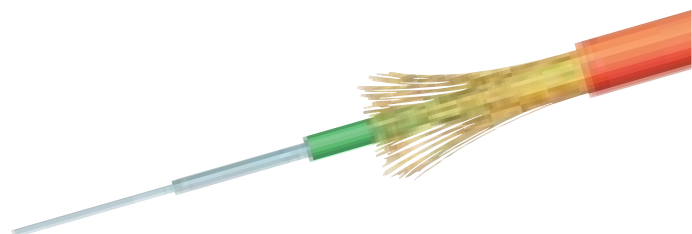
12
82

Wire Stripper for fibre optics



12 82 130 SB

- to remove primary and secondary coating of fibre optics
- Chrome vanadium electric steel in special quality, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | Pliers | Handles | Stripping capacities Ø mm | ⚖ g |
|--------------|--------------|---------|-----------|----------------------|---|--------|
| 12 82 130 SB | 050094 | 130 | burnished | with plastic handles | primary-coating: 0.125 mm secondary-coating: 0.250 mm | 69 |

12
85

Stripping Tool for fibre optics



12 85 100 SB

| Article No. | EAN 4003773- | ↔ mm | Stripping capacities Ø mm | g |
|--------------|--------------|------|--|----|
| 12 85 100 SB | 043126 | 100 | to remove primary coating of fibre optics Ø 0.125 mm | 44 |

- to remove primary coating of fibre optics Ø 0.125 mm
- blade dia. 0.18 mm, hole for cable feeding 0.30 mm dia.
- adjustable length stop
- Housing: plastic, impact-proof



13

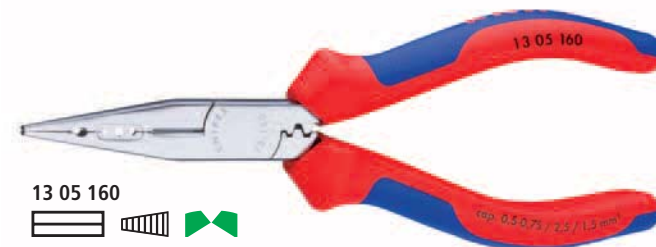
Electricians' Pliers



13 01 160



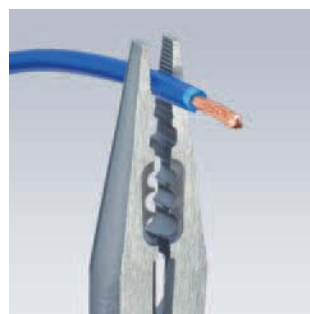
13 02 160



13 05 160



- the ideal pliers for cable work
- for gripping and bending wire
- for cutting soft, medium and hard wire
- precision cutting edges additionally induction hardened, cutting edge hardness approx. 60 HRC
- with precision stripping holes
- for crimping end sleeves (ferrules)
- Vanadium electric steel; forged, oil-hardened



Gripping










Cutting



Stripping



Crimping 0.5 to 2.5 mm²

| Article No. | EAN 4003773- | ↔ mm |  | Pliers | Head | Handles | Stripping capacities mm² | Cutting capacities | |  g |
|-------------|-----------------|---------|---|--------------------|----------|----------------------------|-----------------------------|---|---|--|
| | | | | | | | |  Ø mm |  Ø mm | |
| 13 01 160 | 034971 | 160 |  | black atramentized | polished | plastic coated | 0.5 - 0.75 / 1.5 / 2.5 | 2.5 | 1.6 | 112 |
| 13 02 160 | 010470 | 160 |  | black atramentized | polished | with multi-component grips | 0.5 - 0.75 / 1.5 / 2.5 | 2.5 | 1.6 | 139 |
| 13 05 160 | 071426 | 160 |  | chrome plated | | with multi-component grips | 0.5 - 0.75 / 1.5 / 2.5 | 2.5 | 1.6 | 139 |

13
72

Universal Pliers for STP data cables



13 72 160 SB

- for cutting the entire cable, the single conductor, the shield and the plastic core
- steel needle at the joint for longitudinal scratching of the shield foil
- prismatic blades below the joint for dismantling the cables
- Chrome vanadium electric steel in special quality, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | Pliers | Handles | g |
|--------------|--------------|------|-----------|----------------------------|-----|
| 13 72 160 SB | 052319 | 160 | burnished | with multi-component grips | 102 |

14

Diagonal Insulation Strippers

- the essential pliers for electrical installation work
- precision stripping holes for single (solid) conductors of 1.5 and 2.5 mm²
- induction hardened precision blades for soft wire up to 4.0 mm dia., cutting edge hardness approx. 60 HRC
- Vanadium electric steel; forged, oil-hardened



14 22 160

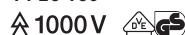


14 25 160



14 26 160

1000 V

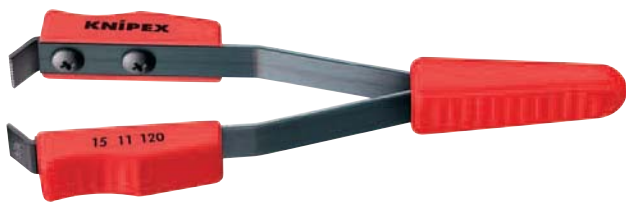


Multi-functional: cutting and stripping

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Head | Handles | Stripping capacities mm ² | AWG | Cutting capacities | | g |
|-------------|--------------|------|--------|--------------------|----------|--|--------------------------------------|---------|--------------------|------|-----|
| | | | | | | | | | Ø mm | Ø mm | |
| 14 22 160 | 034988 | 160 | | black atramentized | polished | with multi-component grips | 1.5 + 2.5 | 15 + 13 | 2.5 | 1.5 | 206 |
| 14 25 160 | 028697 | 160 | | chrome plated | | with multi-component grips | 1.5 + 2.5 | 15 + 13 | 2.5 | 1.5 | 206 |
| 14 26 160 | 040279 | 160 | 1000 V | chrome plated | | insulated with multi-component grips, VDE-tested | 1.5 + 2.5 | 15 + 13 | 2.5 | 1.5 | 216 |

15
11

Stripping Tweezers for Coated-Wire



15 11 120

| Artikel-Nr. | EAN 4003773- | ↔ mm | Stripping capacities Ø mm | g |
|-------------|--------------|------|---------------------------|----|
| 15 11 120 | 015550 | 120 | 0.6 | 34 |

- for stripping off varnished insulation on copper wires
- blades for other wire diameters available as spare parts
- Tweezers body: spring steel, oil-hardened
- Handle shells: plastic



| Article No. | EAN 4003773- | |
|-------------|--------------|---|
| 15 19 005 | 021551 | 1 pair of spare blades for 15 11 120 Ø 0.5 mm |
| 15 19 006 | 021568 | 1 pair of spare blades for 15 11 120 Ø 0.6 mm |
| 15 19 008 | 021575 | 1 pair of spare blades for 15 11 120 Ø 0.8 mm |
| 15 19 010 | 021582 | 1 pair of spare blades for 15 11 120 Ø 1.0 mm |

15

Insulation Strippers



15 61 160



- for stripping thin cables
- accurate boring to match diameter of wire, precise stripping prism; non-adjustable
- with opening spring
- Chrome vanadium electric steel, forged, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | Head | Handles | Stripping capacities Ø mm | g |
|-------------|--------------|------|----|----------|----------------|---------------------------|-----|
| 15 51 160 | 044451 | 160 | MM | polished | plastic coated | 0.5 | 101 |
| 15 61 160 | 014843 | 160 | | | | 0.6 | 102 |
| 15 81 160 | 015574 | 160 | | | | 0.8 | 102 |

16
20

Dismantling Tools



16 20 16 SB



16 20 165 SB



- for stripping all common round cables
- self-tightening holding lever
- with adjusting screw for cutting depth adjustment
- turnable blade for circular and longitudinal cutting
- spare blade inside the handle
- secure grip due to soft component material on handle and holding lever to avoid slipping

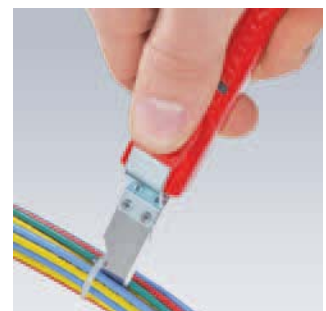
- Housing: plastic, impact-proof



16 20 165 SB
with knife and hook blade, protective cap included

| Article No. | EAN 4003773- | ↔ mm | | Stripping capacities Ø mm | g |
|--------------|--------------|------|----|---------------------------|----|
| 16 20 16 SB | 060451 | 130 | MM | 4.0 - 16.0 | 95 |
| 16 20 28 SB | 060468 | 130 | | 8.0 - 28.0 | 95 |
| 16 20 165 SB | 043133 | 165 | MM | 8.0 - 28.0 | 85 |

| | | | | | |
|-----------|--------|--|--|--|--|
| 16 29 165 | 043140 | Spare blade for 16 20 16 SB / 16 20 28 SB / 16 20 165 SB | | | |
|-----------|--------|--|--|--|--|



16
30

Dismantling Tool



16 30 135 SB
W

- for dismantling round cable sheaths made of PVC, rubber, silicone or PTFE from 6.0 - 29.0 mm dia.
- self-tightening holding lever
- with knurled nut for cutting depth adjustment
- changing from circular to longitudinal cutting by turning the tool body
- spiral cutting for removing intermediate pieces
- replaceable blade
- Housing: plastic, impact-proof



| Article No. | EAN 4003773- | ↔ mm | | Stripping capacities Ø mm | g |
|--------------|--------------|------------------------------|---|---------------------------|-----|
| 16 30 135 SB | 033349 | 135 | W | 6.0 - 29.0 | 120 |
| 16 39 135 | 027317 | Spare blade for 16 30 135 SB | | | |



16
40

Dismantling Tool



16 40 150



Adjustable cutting depth

- for dismantling round cables exceeding 25.0 mm dia.
- removes all kinds of insulation layers
- suitable for longitudinal and circular cutting
- cutting depth can be adjusted up to 5.0 mm
- replaceable blade (both sides can be used)
- Tool body: plastic, fibreglass-reinforced



Setting the tool for longitudinal cut



Longitudinal cut



Turning the tool for circumferential cut



Circular cut

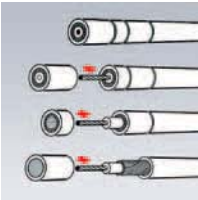
| Article No. | EAN 4003773- | ↔ mm | Stripping capacities Ø mm | g |
|-------------|--------------|---------------------------|---------------------------|-----|
| 16 40 150 | 026709 | 150 | > 25 | 210 |
| 16 49 150 | 026716 | Spare blade for 16 40 150 | | |

16
60

Stripping Tool for coax cables



16 60 05 SB
W



Dismantling of a coax-cable
in three steps

- for stripping coax cables (RG 58, RG 59 and RG 62)
- for stripping outer sheath, shield and insulation in a single pass
- with three built-in blades
- the cutting depth of each blade can be adjusted individually by means of a hexagonal key (Allen key)
- the blade spacing remains constant
- Housing: plastic, impact-proof



3 stripping steps in one operation

| Article No. | EAN 4003773- | ↔ mm | | Cable type | ⚖ g |
|-------------|-----------------|---------|---|------------------------|--------|
| 16 60 05 SB | 044888 | 105 | W | RG 58, RG 59 and RG 62 | 73 |

16
60

Stripping Tool for coax cables



16 60 100 SB
W



- for dismantling and stripping all common coax cables between 4.8 - 7.5 mm dia. (e.g. for TV- and satellite antenna), also suitable for PVC round cable 3 x 0.75 mm²
- with length scale 5.0 - 20.0 mm
- double shell, folding back stripping tool
- with opening spring and locking device
- Body: plastic, fibreglass-reinforced



| Article No. | EAN 4003773- | ↔ mm | | Stripping capacities Ø mm | ⚖ g |
|--------------|-----------------|---------|---|---|--------|
| 16 60 100 SB | 040811 | 100 | W | Coax-cables 4.8 - 7.5 round cables 3 x 0.75 mm ² | 39 |

16
65

Dismantling Tool for data cables



16 65 125 SB
WM

- for stripping UTP and STP data cables with diameters of 4.5 to 10.0 mm
- stripping device for cross-sections 0.2 / 0.3 / 0.8 / 1.5 / 2.5 / 4.0 mm²
- double shell, folding back stripping tool
- with opening spring and locking device
- practical clip for easy transport
- Body: plastic, fibreglass-reinforced



| Article No. | EAN 4003773- | ↔ mm | | Types of cables | Stripping capacities Ø mm | Stripping capacities mm ² | ⚖ g |
|--------------|--------------|------|----|---|---------------------------|--------------------------------------|-----|
| 16 65 125 SB | 043157 | 125 | WM | CAT 5, CAT 6, CAT 7, Twisted-Pair (UTP/STP) | 4.5 - 10.0 | 0.2 - 4.0 | 50 |

16
8

Universal Dismantling Tools



16 80 125 SB
WM

- for dismantling and stripping all common round and damp-proof installation cables between 8.0 - 13.0 mm dia. (e.g. 3 x 1.5 mm² up to 5 x 2.5 mm²)
- also for use in conduit and distribution boxes
- double shell, folding back stripping tool
- with opening spring and locking device
- practical clip for easy transport
- Body: plastic, fibreglass-reinforced

16 85 125 SB

with additional blade for longitudinal cuts; telescopic blade inside; stripping device for cross-sections 0.2 / 0.3 / 0.8 / 1.5 / 2.5 / 4.0 mm²



16 85 125 SB
WM

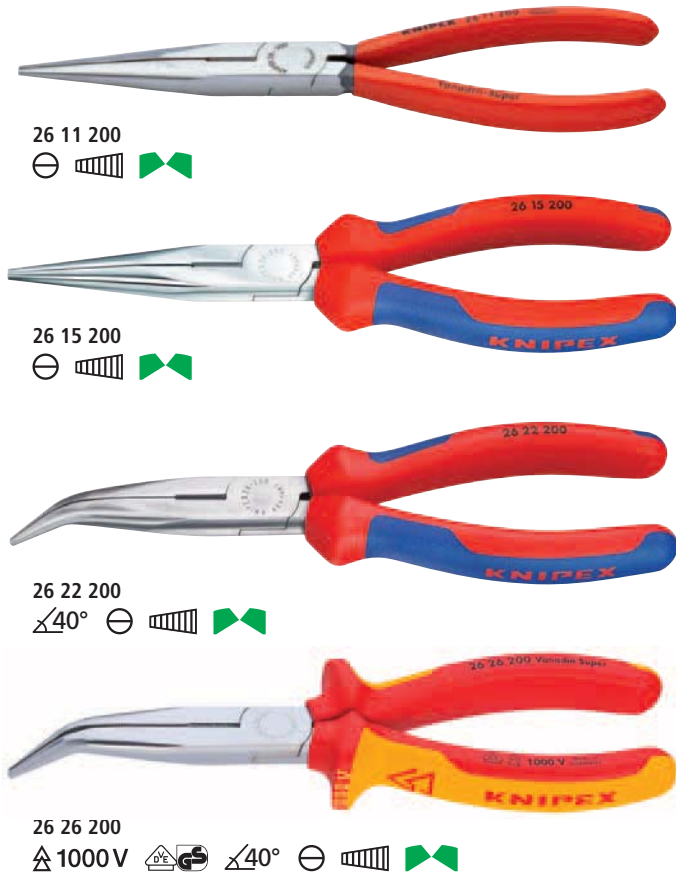


| Article No. | EAN 4003773- | ↔ mm | | Stripping capacities Ø mm | Types of cables | ⚖ g |
|--------------|--------------|------|----|---------------------------|--|-----|
| 16 80 125 SB | 040828 | 125 | WM | 8.0 - 13.0 | round cable, e.g.: 3 x 1.5 mm ² up to 5 x 2.5 mm ² | 71 |
| 16 85 125 SB | 060444 | 125 | WM | 8.0 - 13.0 | round cable, e.g.: 3 x 1.5 mm ² up to 5 x 2.5 mm ² | 67 |

Snipe Nose Side Cutting Pliers

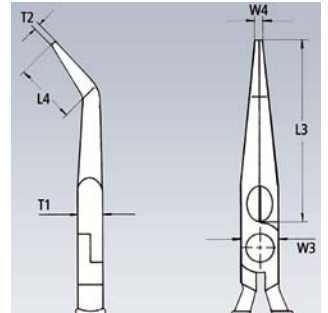
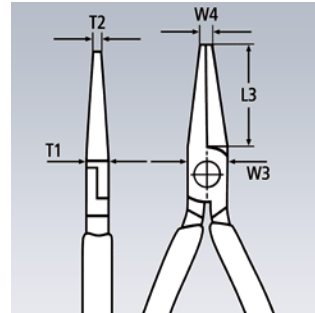
(Stork Beak Pliers)

DIN ISO 5745



Elastic tips: dimensionally stable even when twisted

- distortion-tolerant, elastic precision tips
- half-round, long, pointed jaws
- with cutting edges (hardness approx. 61 HRC) for soft, medium-hard and hard wire
- Vanadium electric steel; forged, oil-hardened



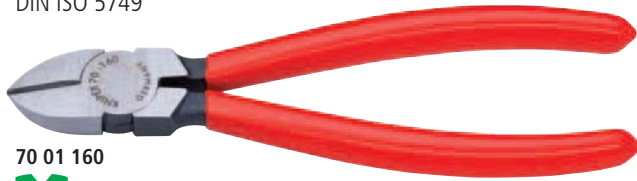
| Article No. | EAN 4003773- | ↔ mm | | Pliers | Head | Handles | Cutting capacities Ø mm | Ø mm | L3 mm | L4 mm | Dimensions T1 mm | W3 mm | W4 mm | T2 mm | g |
|-------------|--------------|---------|------------|-----------------------|----------|--|----------------------------|------|----------|----------|---------------------|-------|-------|-------|-----|
| 26 11 200 | 022824 | 200 | ⊖ | black atramentized | polished | plastic coated | 3.2 | 2.2 | 73.0 | | 9.5 | 17.5 | 3.0 | 2.5 | 170 |
| 26 12 200 | 023142 | 200 | ⊖ | black atramentized | polished | with multi-com- ponent grips | 3.2 | 2.2 | 73.0 | | 9.5 | 17.5 | 3.0 | 2.5 | 201 |
| 26 13 200 | 040590 | 200 | ⊖ | chrome plated | | plastic coated | 3.2 | 2.2 | 73.0 | | 9.5 | 17.5 | 3.0 | 2.5 | 169 |
| 26 15 200 | 035022 | 200 | ⊖ | chrome plated | | with multi-com- ponent grips | 3.2 | 2.2 | 73.0 | | 9.5 | 17.5 | 3.0 | 2.5 | 198 |
| 26 16 200 | 022831 | 200 | ⚡ 1000 V ⊖ | chrome plated | | insulated with multi-component grips, VDE-tested | 3.2 | 2.2 | 73.0 | | 9.5 | 17.5 | 3.0 | 2.5 | 206 |
| 26 17 200 | 016069 | 200 | ⚡ 1000 V ⊖ | chrome plated | | with plastic dipped insulation, VDE-tested | 3.2 | 2.2 | 73.0 | | 9.5 | 17.5 | 3.0 | 2.5 | 212 |
| 26 21 200 | 022848 | 200 | ⊖ | black atramentized | polished | plastic coated | 3.2 | 2.2 | 73.0 | 23.0 | 9.5 | 17.5 | 3.0 | 2.5 | 171 |
| 26 22 200 | 023135 | 200 | ⊖ | black atramentized | polished | with multi-com- ponent grips | 3.2 | 2.2 | 73.0 | 23.0 | 9.5 | 17.5 | 3.0 | 2.5 | 197 |
| 26 23 200 | 016076 | 200 | ⊖ | chrome plated | | plastic coated | 3.2 | 2.2 | 73.0 | 23.0 | 9.5 | 17.5 | 3.0 | 2.5 | 171 |
| 26 25 200 | 035039 | 200 | ⊖ | chrome plated | | with multi-com- ponent grips | 3.2 | 2.2 | 73.0 | 23.0 | 9.5 | 17.5 | 3.0 | 2.5 | 199 |
| 26 26 200 | 022855 | 200 | ⚡ 1000 V ⊖ | chrome plated | | insulated with multi-component grips, VDE-tested | 3.2 | 2.2 | 73.0 | 23.0 | 9.5 | 17.5 | 3.0 | 2.5 | 204 |
| 26 27 200 | 016090 | 200 | ⚡ 1000 V ⊖ | chrome plated | | with plastic dipped insulation, VDE-tested | 3.2 | 2.2 | 73.0 | 23.0 | 9.5 | 17.5 | 3.0 | 2.5 | 220 |



70

Diagonal Cutters

DIN ISO 5749



70 01 160



70 02 160



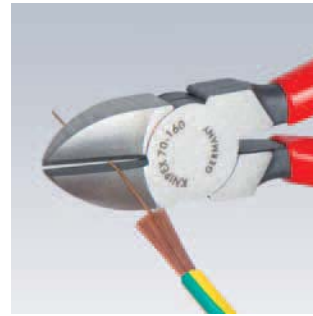
70 05 160



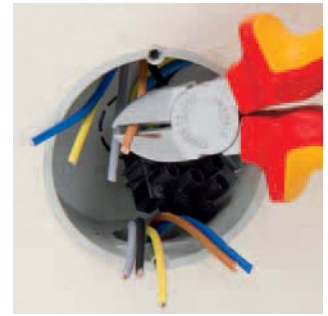
70 06 160

1000V

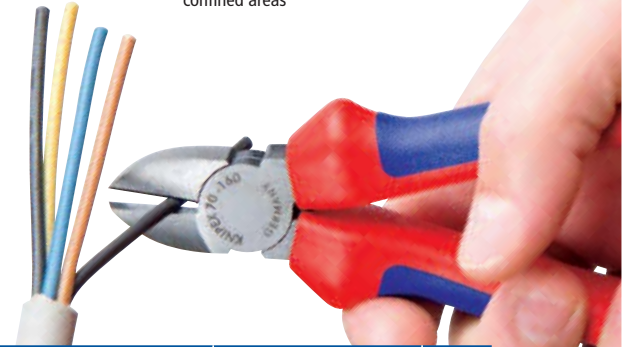
- the essential cutting tool for versatile use
- high quality material and precise workmanship for long service life
- precision cutting edges additionally induction hardened (cutting edge hardness approx. 62 HRC) for soft and hard wire
- clean cutting of thin copper wires, also at the cutting-edge tips
- narrow head style for use in confined areas
- Vanadium electric steel; forged, oil-hardened



Cuts fine wires cleanly along the complete length of the blades



Slim head style and precise cut at blade tips: Advantageous when working in confined areas



| Article No. | EAN 4003773- | mm | | Pliers | Head | Handles | Cutting capacities | | | |
|-------------|--------------|-----|--|-----------------------|---------------|--|--------------------|------|------|-----|
| | | | | | | | Ø mm | Ø mm | Ø mm | g |
| 70 01 110 | 014324 | 110 | | black atramentized | polished | plastic coated | 3.0 | 2.0 | 1.2 | 80 |
| 70 01 125 | 013402 | 125 | | | | | 3.0 | 2.3 | 1.5 | 80 |
| 70 01 140 | 013419 | 140 | | | | | 4.0 | 2.5 | 1.8 | 126 |
| 70 01 160 | 013426 | 160 | | | | | 4.0 | 2.8 | 2.0 | 171 |
| 70 01 180 | 018070 | 180 | | | | | 4.0 | 3.0 | 2.5 | 200 |
| 70 02 125 | 034025 | 125 | | black atramentized | polished | with multi-component grips | 3.0 | 2.3 | 1.5 | 119 |
| 70 02 140 | 023098 | 140 | | | | | 4.0 | 2.5 | 1.8 | 150 |
| 70 02 160 | 034032 | 160 | | | | | 4.0 | 2.8 | 2.0 | 206 |
| 70 02 180 | 034049 | 180 | | | | | 4.0 | 3.0 | 2.5 | 252 |
| 70 04 140 | 018100 | 140 | | chrome plated | | | 4.0 | 2.5 | 1.8 | 114 |
| 70 05 125 | 039501 | 125 | | chrome plated | | with multi-component grips | 3.0 | 2.3 | 1.5 | 119 |
| 70 05 140 | 039488 | 140 | | | | | 4.0 | 2.5 | 1.8 | 154 |
| 70 05 160 | 039600 | 160 | | | | | 4.0 | 2.8 | 2.0 | 207 |
| 70 05 180 | 043706 | 180 | | | | | 4.0 | 3.0 | 2.5 | 246 |
| 70 06 125 | 018124 | 125 | | 1000V | chrome plated | insulated with multi-component grips, VDE-tested | 3.0 | 2.3 | 1.5 | 121 |
| 70 06 140 | 040293 | 140 | | | | | 4.0 | 2.5 | 1.8 | 160 |
| 70 06 160 | 021995 | 160 | | | | | 4.0 | 2.8 | 2.0 | 216 |
| 70 06 180 | 033813 | 180 | | | | | 4.0 | 3.0 | 2.5 | 254 |
| 70 07 160 | 018155 | 160 | | 1000V | chrome plated | with dipped insulation, VDE-tested | 4.0 | 2.8 | 2.0 | 227 |
| 70 07 180 | 018179 | 180 | | | | | 4.0 | 3.0 | 2.5 | 269 |
| 70 11 110 | 018193 | 110 | | black atramentized | polished | plastic coated | 3.0 | 2.0 | 1.2 | 91 |
| 70 15 110 | 029649 | 110 | | chrome plated | | with multi-component grips | 3.0 | 2.0 | 1.2 | 98 |
| 70 26 160 | 018223 | 160 | | 1000V | chrome plated | insulated with multi-component grips, VDE-tested | 4.0 | 2.8 | 1.8 | 216 |

87
1

KNIPEX Cobra®...matic

(PATENTED)

Water Pump Pliers

DIN ISO 8976



87 11 250



- all features of the KNIPEX Cobra® 87 01 250

Special feature:

- automatic adjustment at the touch of a button directly on the workpiece
- the sheltered positioned spring ensures that the pliers close automatically once the push-button is activated (one-hand operation!)

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Head | Handles | ⌀ Inch | ⌀ mm | mm | Adjustment positions | g |
|-------------|--------------|------|---|-------------------|----------|-------------------------------|--------|------|----|----------------------|-----|
| 87 11 250 | 035473 | 250 |    | grey atramentized | polished | with non-slip plastic coating | 2 | 50 | 46 | 25 | 335 |

87 19 250 022640 Spare spring for 87 11 250

87
26

KNIPEX Cobra® VDE

(PATENTED)

Hightech Water Pump Pliers, insulated

DIN ISO 8976 IEC 60900 DIN EN 60900



87 26 250



The adjustment procedure to adapt to the workpiece is easy and reliable with the KNIPEX Cobra® VDE: place the upper gripping jaw of the opened pliers on the workpiece, push pliers handle to close, done!







- adjustment by shifting one jaw directly on to the workpiece: fast, reliable and comfortable handling
- opening at the touch of a button off the workpiece
- fine adjustment for optimum adaptation to different sizes of workpieces and a comfortable handle width
- good access to the workpiece due to slim size in the head and joint area
- self-locking on pipes and nuts: no slipping on the workpiece and low hand force required
- gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and stable gripping
- box-joint design: high stability because of double guide
- guard prevents operators' fingers being pinched
- Chrome vanadium electric steel, forged, oil-hardened



Quick setting without using a push-button



Just push the pliers handle to adjust!

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | ⌀ Inch | ⌀ mm | mm | Adjustment positions | g |
|-------------|--------------|------|---|---------------|--|--------|------|----|----------------------|-----|
| 87 26 250 | 071495 | 250 |     | chrome plated | insulated with multi-component grips, VDE-tested | 2 | 50 | 46 | 24 | 340 |



Cable Shears



95 11 165



95 12 165



95 16 165



95 22 165



- for cutting copper and aluminium single conductors as well as multiple stranded cables
- not suitable for steel wire and hard drawn copper conductors
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- easy cutting with one-hand operation
- guard prevents operators' fingers being pinched
- adjustable bolted joint, self-retaining screw
- High-grade special tool steel, forged, oil-hardened

Style 2

internal opening spring, protected and captive



Cut performed with a Diagonal Cutter: high effort required, inaccurate cut, considerable deforming and crushing of the cable



Cut performed with a Cable Shears: easy, clean cut without any deformation of the cable

| Article No. | EAN 4003773- | ↔ mm | | Style | Tool | Handles | Cutting capacities | | AWG | g |
|-------------|-----------------|---------|--|-------|---------------|--|--------------------|-----|-----|-----|
| | | | | | | | Ø mm | mm² | | |
| 95 11 165 | 040323 | 165 | | 1 | burnished | plastic coated | 15 | 50 | 1/0 | 215 |
| 95 12 165 | 029182 | 165 | | 1 | burnished | with multi-component grips | 15 | 50 | 1/0 | 250 |
| 95 16 165 | 039648 | 165 | | 1 | chrome plated | insulated with multi-component grips, VDE-tested | 15 | 50 | 1/0 | 262 |
| 95 21 165 | 069805 | 165 | | 2 | burnished | plastic coated | 15 | 50 | 1/0 | 215 |
| 95 22 165 | 069812 | 165 | | 2 | burnished | with multi-component grips | 15 | 50 | 1/0 | 254 |
| 95 26 165 | 069980 | 165 | | 2 | chrome plated | insulated with multi-component grips, VDE-tested | 15 | 50 | 1/0 | 275 |

95
1

Cable Shears with twin cutting edge

(PATENTED)



95 11 200



95 12 200



95 16 200

1000 V    



95 17 200

1000 V    

The twin cutting edge allows a comfortable handle position in all cutting situations within the specified cutting capacity.


















- for cutting copper and aluminium cables
- not suitable for steel wire and hard drawn copper conductors
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- by dividing the cutting actions into initial cut (insulating sheath in the front cutting area) and final cut (conductor in the back cutting area), cables up to Ø 20 mm can be cut in one-hand operation
- less effort required due to favourable lever ratio and optimised cutting-edge geometry
- guard prevents operators' fingers being pinched
- adjustable bolted joint, self-retaining screw
- High-grade special tool steel, forged, oil-hardened



Initial cut:
using the front cutting edge to cut the insulating sheath on larger cable diameters leaves an ergonomic handle opening width.



Final cut:
after cutting the sheath in the front profile the cut is finished through the metal part of the cable in the rear profile. Initial cut in the front profile, final cut in the rear profile – to keep it as easy as possible.

| Article No. | EAN 4003773- | ↔ mm | | Tool | Handles | Cutting capacities | | AWG |  g |
|-------------|-----------------|---------|---|---------------|--|---|--|-----|--|
| | | | | | |  Ø mm |  mm ² | | |
| 95 11 200 | 043928 | 200 |   | burnished | plastic coated | 20 | 70 | 2/0 | 283 |
| 95 12 200 | 047834 | 200 |   | burnished | with multi-component grips | 20 | 70 | 2/0 | 324 |
| 95 16 200 | 026761 | 200 |      | chrome plated | insulated with multi-component grips, VDE-tested | 20 | 70 | 2/0 | 340 |
| 95 17 200 | 026952 | 200 |      | chrome plated | with dipped insulation, VDE-tested | 20 | 70 | 2/0 | 360 |

95

Cable Shears



95 12 500



95 17 500



- for cutting copper and aluminium conductors as well as multiple stranded cables
- not suitable for steel wire and wire ropes
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- low handforce required due to favourable lever ratio and special blade geometry
- short design, length only 500 mm
- low weight
- guard prevents operators' fingers being pinched
- adjustable bolted joint
- Cutter head: vanadium electric steel, forged, oil-hardened
- Handles: aluminium tube, high-strength



Large cutting capacity:
max. 27 mm dia. / 150 mm²

| Article No. | EAN 4003773- | ↔ mm | | Head | Handles | Cutting capacities | | AWG | g |
|-------------|-----------------|---------|--|-----------|------------------------------------|--------------------|-----|-----|------|
| | | | | | | Ø mm | mm² | | |
| 95 12 500 | 069966 | 500 | | burnished | with multi-component grips | 27 | 150 | 5/0 | 1090 |
| 95 17 500 | 026785 | 500 | | polished | with dipped insulation, VDE-tested | 27 | 150 | 5/0 | 1477 |

95

Cable Shears



95 21 600



- for cutting copper and aluminium conductors as well as multiple stranded cables
- not suitable for steel wire and wire ropes
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- favourable transmission ratio due to double lever
- guard prevents operators' fingers being pinched
- adjustable bolted joint
- bolted cutter head, replaceable
- Blade head: high-grade chrome vanadium electric steel, forged, oil-hardened
- Handles: steel tube

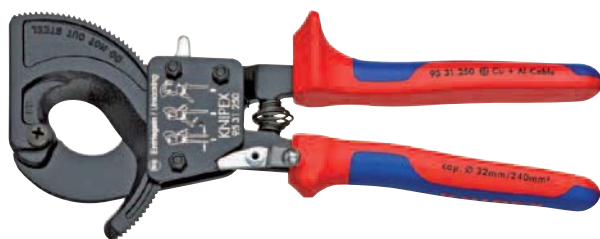
| Article No. | EAN 4003773- | ↔ mm | | Head | Handles | Cutting capacities | | AWG | g |
|-------------|-----------------|---------|--|----------|------------------------------------|--------------------|-----|-----|------|
| | | | | | | Ø mm | mm² | | |
| 95 21 600 | 025252 | 600 | | polished | with plastic grips | 27 | 150 | 5/0 | 1836 |
| 95 27 600 | 021797 | 600 | | polished | with dipped insulation, VDE-tested | 27 | 150 | 5/0 | 2301 |

95 29 600 021803 Spare cutter head for 95 21 600 / 95 27 600

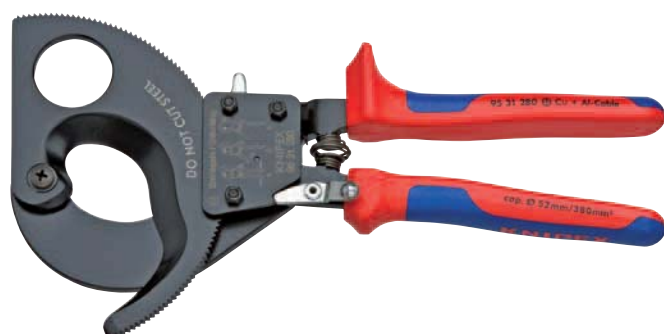
95
3

Cable Cutters (ratchet action)

(PATENTED)



95 31 250



95 31 280



95 36 250



- for cutting copper and aluminium single conductors as well as multiple stranded cables
- not suitable for steel wire and wire ropes
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- one-hand operation using ratchet principle
- little handforce required due to very high transmission ratio
- two-stage ratchet drive for easy cutting
- simple handling as a result of low weight and compact design – can be used even in confined areas
- guard prevents operators' fingers being pinched
- High-grade special tool steel, forged, oil-hardened

95 31 / 36 280

suitable for aluminium sector cable up to 4 x 150 mm²



95 31 280: Large cutting capacity: maximum 52 mm dia. / 380 mm²

Ratchet principle and two-stage ratchet drive for easier cutting



95 31 250 / 280:

Fixed handle with support area as an aid to position the cutters on a flat surface

| Article No. | EAN 4003773- | ↔ mm | | Tool | Handles | Cutting capacities | | MCM | g |
|-------------|-----------------|---------|----------------|-----------------|--|--------------------|-----------------|-----|-----|
| | | | | | | Ø mm | mm ² | | |
| 95 31 250 | 043935 | 250 | ⊕ /MM | black lacquered | with multi-component grips | 32 | 240 | 500 | 676 |
| 95 31 280 | 043942 | 280 | ⊕ /MM | black lacquered | with multi-component grips | 52 | 380 | 750 | 860 |
| 95 36 250 | 026884 | 250 | ⚠ 1000 V ⊕ /MM | black lacquered | insulated with multi-component grips, VDE-tested | 32 | 240 | 500 | 652 |
| 95 36 280 | 026891 | 280 | ⚠ 1000 V ⊕ /MM | black lacquered | insulated with multi-component grips, VDE-tested | 52 | 380 | 750 | 835 |

95 39 250 022244 Movable spare blade for 95 31 250 / 95 36 250

95 39 280 025283 Movable spare blade for 95 31 280 / 95 36 280

95
32

Cable Shears (ratchet action)

with telescopic handles



95 32 038



Handles adjustable in length and angular position for easier work: set the handle length to the optimum lever for powerful cutting; put the handles at an angle for a comfortable gripping position

Cable shears with adjustable telescopic handles allowing angular positioning

- for cable diameters up to 38 mm, handles can be positioned at an angle to set the optimum handle width, which makes the shear also suitable for work in confined areas
- comfortable work thanks to ratchet action and low weight
- heavy duty telescopic handles made of oval aluminium tubing; extendable up to 770 mm for maximum leverage on large cable diameters; retractable down to 570 mm for minimum space requirements during transport
- replaceable cutting head
- extensive cutting range up to max. Ø 38 mm or max. 280 mm² (e.g. 4 x 70 mm² NYY) in copper and aluminium cables
- easier, neater cut due to optimised cutting-edge geometry
- adjustable bolted joint
- Cutting head: special quality high-grade tool steel, oil-hardened
- Handles: high-strength oval aluminium tubing



Setting of a favourable handle width



After the first partial cut, the handles open by ratchet action



Repeat cutting and opening actions until the cable is cut through

with adjusting button



| Article No. | EAN 4003773- | ↔ mm | | Head | Handles | Cutting capacities | | MCM | g |
|-------------|-----------------|---------------------------------|--|-----------|----------------------------|--------------------|-----------------|-----|------|
| | | | | | | Ø mm | mm ² | | |
| 95 32 038 | 071556 | 570 | | burnished | with multi-component grips | 38 | 280 | 550 | 1980 |
| 95 39 038 | 073260 | Spare cutter head for 95 32 038 | | | | | | | |

95
32

Cable Cutters (ratchet action)

with telescopic handles



95 32 060



- handle length with multiple position adjustment from 400 - 600 mm (short transport length, individual adaptation to working conditions)

- for copper and aluminium single conductors as well as multiple stranded cables – also with hard rubber or plastic sheath
- not suitable for steel wire and wire ropes
- also suitable for cables with iron sheath reinforcement
- little hand force required for cutting due to optimum transmission ratio
- high cutting capacity due to two-hand operation and ratchet action
- the blade can be opened in any cutting position
- Blade: special-quality high-grade tool steel, oil-hardened
- Handles: high-strength oval aluminium tubing



95 32 060

tool in length: 630 to 830 mm;
weight only approx. 3820 g







previous
with steel
tubing



new
with heavy-duty aluminium
telescopic handles



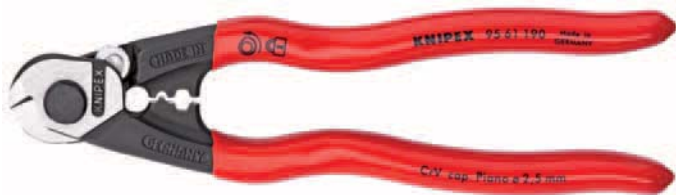
30 % weight reduction

| Article No. | EAN 4003773- |  mm |  | Head | Handles | Cutting capacities | | MCM |  g |
|-------------|-----------------|---|---|-----------|----------------------------|---|--|------|--|
| | | | | | |  Ø mm |  mm² | | |
| 95 32 060 | 071563 | 630 |  | burnished | with multi-component grips | 60 | 740 | 1400 | 3820 |
| 95 32 100 | 071570 | 680 | | | | 100 | 960 | 1900 | 4980 |
| 95 39 720 | 025290 | Movable spare blade for 95 31 720 / 95 32 060 | | | | | | | |
| 95 39 870 | 025306 | Movable spare blade for 95 31 870 / 95 32 100 | | | | | | | |

95
6

Wire Rope Shears forged

double function: neat cutting, precise crimping



95 61 190



95 62 190



Cuts all wire ropes without splaying, including those that are extremely strong, such as for example tyre cord

- with two crimping dies for end caps on Bowden cable sheaths and end ferrules for traction cables
- comfortable work thanks to handy, slim design and internal opening spring
- bolted joint for precise blade guidance, re-adjustable
- high leverage for reduced effort
- cutting-edge hardness approx. 64 HRC
- Chrome vanadium heavy-duty steel, forged, oil-hardened

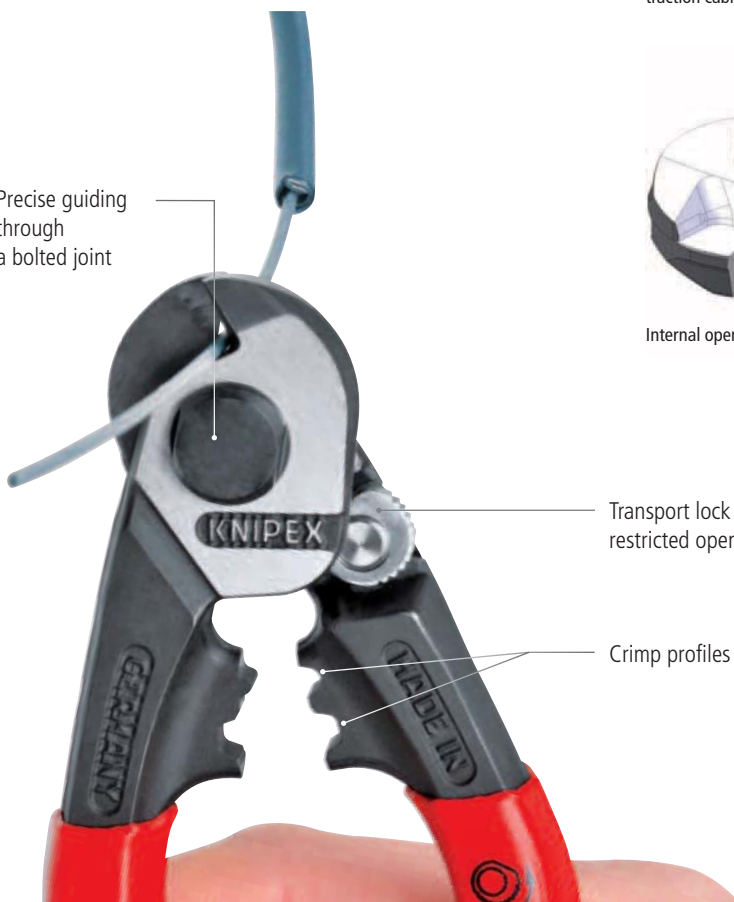


Crimping of the end ferrule onto the traction cable



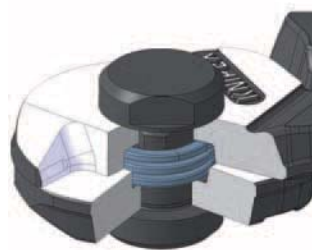
Crimping of the end caps on the Bowden cable sheath

Precise guiding through a bolted joint

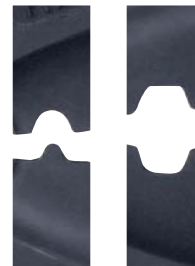


Transport lock and restricted opening

Crimp profiles



Internal opening spring



| Article No. | EAN 4003773- | ↔ mm | | Head | Handles | Cutting capacities | | | | g |
|-------------|--------------|---------|-----------|----------|----------------------------|--------------------|------|------|------|-----|
| | | | | | | Ø mm | Ø mm | Ø mm | Ø mm | |
| 95 61 190 | 040651 | 190 | ⊕ ⊗ ◐ ● ☒ | polished | plastic coated | 7 | 6 | 4.0 | 2.5 | 314 |
| 95 62 190 | 071976 | 190 | ⊕ ⊗ ◐ ● ☒ | polished | with multi-component grips | 7 | 6 | 4 | 2.5 | 314 |

95
6

Bowden Cable Cutter



95 61 150




- for Bowden cables and soft wire rope up to 3.0 mm dia. (also V2A)
- smooth and clean cutting due to special shape of the cutting edges
- sickle shape cutting edges surround the material and prevent the wire rope fanning out
- little handforce required due to very high transmission ratio
- with opening spring and locking device
- cutting edges additionally induction hardened

- High-grade special tool steel, forged, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | Shears | Head | Handles | Cutting capacities  Ø mm |  g |
|-------------|--------------|------|---|--------------------|----------|----------------|--|---|
| 95 61 150 | 065197 | 150 |    | black atramentized | polished | plastic coated | 3 | 205 |

95

Wire Rope and ACSR-Cable Cutters



95 71 600





















- for wire ropes and steel rods, copper and aluminium cables
- suitable for cutting overhead cables with strain relief wire (ACSR-cables)
- angular cutting blades allow cutting of single rope wire
- optimum transmission ratio for high cutting performance
- bolted cutter head, replaceable
- low weight
- Cutter head: high-grade special tool steel, oil-hardened
- Handles: aluminium, high-strength



95 77 600




95 81 600
 with reinforced cutter head for higher performance, also cuts piano wire

| Article No. | EAN 4003773- | ↔ mm | | Head | Handles | Cutting capacities | | | | AWG |  g |
|-------------|--------------|------|---|----------|------------------------|---|--|--|--|-----|---|
| | | | | | |  mm² |  Ø mm |  Ø mm |  Ø mm | | |
| 95 71 445 | 014522 | 445 |    | polished | with plastic grips | 95 | 10.0 | 7.0 | | 3/0 | 1083 |
| 95 71 600 | 014539 | 600 |    | polished | with plastic grips | 150 | 14.0 | 9.0 | | 5/0 | 1716 |
| 95 77 600 | 025313 | 600 |    | polished | with dipped insulation | 150 | 14.0 | 9.0 | | 5/0 | 2359 |
| 95 81 600 | 025344 | 600 |    | polished | with plastic grips | 150 | 16.0 | 10.0 | 4.5 | 5/0 | 2256 |

| | | | | | | | | | | | |
|-----------|--------|---|--|--|--|--|--|--|--|--|--|
| 95 79 445 | 025320 | Spare cutter head for 95 71 445 | | | | | | | | | |
| 95 79 600 | 025337 | Spare cutter head for 95 71 600 / 95 77 600 | | | | | | | | | |
| 95 89 600 | 025351 | Spare cutter head for 95 81 600 | | | | | | | | | |

97
00

Crimp Grip Pliers



97 00 215 A



- for solder-free electrical connections
- quick release lever
- high contact pressure with minimum handforce using toggle lever transmission
- reproducible crimping quality with high tensile strength because of zero point lock
- adjustable crimping pressure
- Special steel, high-strength

97 00 215 D

crimps conductor and insulation in one single operation

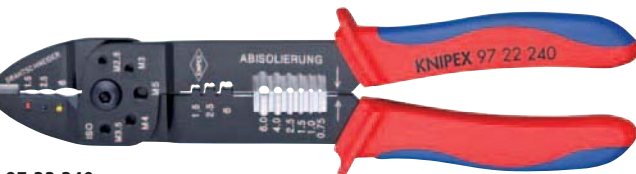
| Article No. | EAN 4003773- | ↔ mm | Pliers | Head | Handles | | | Applications | Capacity mm ² | AWG | Number of crimping positions | ⚖ g |
|-------------|--------------|------|--------|-----------|-----------|---------------|--|---|--------------------------|---------|------------------------------|-----|
| 97 00 215 A | 006497 | 215 | MM | burnished | | | | insulated terminals and plug connectors | 0.5 - 6.0 | 20 - 10 | 3 | 520 |
| 97 00 215 B | 006503 | 215 | MM | | burnished | nickel plated | | non-insulated open plug-type connectors (plug width 6.3 mm) | 0.5 - 6.0 | 20 - 10 | 3 | 520 |
| 97 00 215 D | 006527 | 215 | MM | burnished | | | | insulated terminals and plug connectors | 0.5 - 6.0 | 20 - 10 | 3 | 513 |

97
2

Crimping Pliers



97 21 215



97 22 240



- for cutting cables, stripping wire and crimping insulated and non-insulated terminals, connectors and plug type connectors
- with threaded holes for cutting copper and brass screws threaded M 2.6 / 3.0 / 3.5 / 4.0 and 5.0 mm
- Special steel, high-strength



| Article No. | EAN 4003773- | ↔ mm | Pliers | Handles | | | Applications | Capacity mm ² | AWG | Number of crimping positions | ⚖ g |
|-------------|--------------|------|-----------------|----------------------------|--|--|---|--------------------------|---------|------------------------------|-----|
| 97 21 215 | 019688 | 215 | burnished | with plastic grips | | | insulated terminals and plug connectors | 0.75 - 6.0 | 18 - 10 | 3 | 224 |
| 97 21 215 B | 019695 | 215 | burnished | with plastic grips | | | non-insulated open plug-type connectors (plug width 6.3 mm) | 0.5 - 2.5 | 20 - 13 | 3 | 221 |
| 97 21 215 C | 019701 | 215 | burnished | with plastic grips | | | non-insulated terminals and plug connectors | 0.5 - 6.0 | 20 - 10 | 3 | 222 |
| 97 22 240 | 070726 | 240 | black lacquered | with multi-component grips | | | insulated terminals and plug connectors | 0.75 - 6.0 | 18 - 10 | 3 | 300 |
| | | | | | | | non-insulated open plug-type connectors (plug width 6.3 mm) | 0.5 - 6.0 | 20 - 10 | 3 | |

97
32

Crimping Pliers



97 32 225



- for cutting cables, stripping wire and crimping insulated and non-insulated terminals and connectors
- with threaded holes for cutting copper and brass screws threaded M 2.6 / 3.0 / 3.5 / 4.0 and 5.0 mm
- Special steel, high-strength

| Article No. | EAN 4003773- | ↔ mm | Pliers | Handles | | | Applications | Capacity mm ² | AWG | Number of crimping positions | g |
|-------------|--------------|------|--------|-----------|--------------------|--|---|--------------------------|---------|------------------------------|-----|
| 97 32 225 | 019718 | 225 | MM | burnished | with plastic grips | | insulated terminals and plug connectors | 0.5 - 6.0 | 20 - 10 | 3 | 240 |
| | | | | | | | non-insulated terminals and plug connectors | 0.5 - 2.5 | 20 - 13 | 3 | |

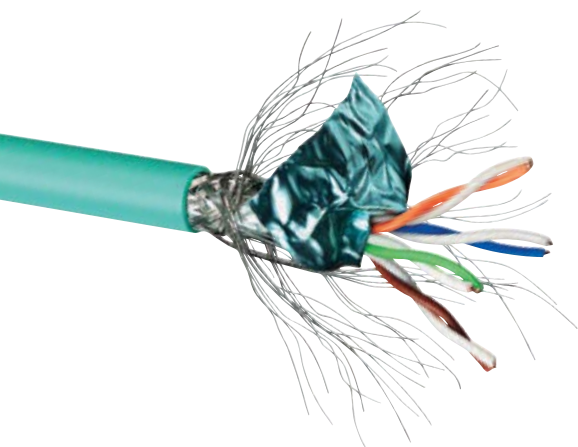
97
40

Insertion tool for LSA-Plus and identical

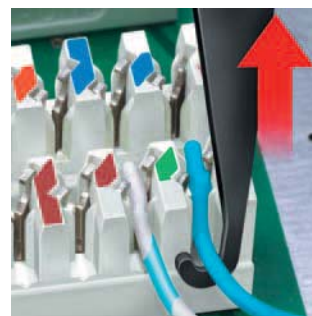


97 40 10

- tool for putting on boards, sockets and fields
- pushing down and cutting in one operation
- for UTP and STP cables, conductor 0.4 - 0.8 mm dia.
- with integrated pulling hook and release blade
- Housing: plastic, impact-proof



Putting down and cutting the cable in one operation



With integrated pulling hook

| Article No. | EAN 4003773- | ↔ mm | Head | Applications | Capacity Ø mm | g |
|-------------|--------------|------|-----------|---|---------------|-----|
| 97 40 10 | 044895 | 175 | burnished | UTP- and STP-cables, LSA-Plus and identical | 0.4 - 0.8 | 100 |

97
33

KNIPEX MultiCrimp®

Crimping Pliers with quick changer magazine



97 33 01
M



97 33 02
M

97 33 01

Crimping pliers with round magazine and three interchangeable die sets for non-insulated open plug connectors (4.8 + 6.3 mm width) from 0.5 - 6.0 mm²; insulated terminals + plug connectors from 0.5 - 6.0 mm²; end sleeves (ferrules) from 0.25 - 6.0 mm²

97 33 02

Crimping pliers with round magazine and five interchangeable die sets for non-insulated open plug connectors (4.8 + 6.3 mm width) from 0.5 - 6.0 mm²; insulated terminals + plug connectors from 0.5 - 6.0 mm²; end sleeves (ferrules) from 0.25 - 6.0 mm²; non-insulated terminals and plug connectors from 0.5 - 10 mm²; non-insulated butt connectors from 1.5 - 10 mm²

The MultiCrimp® Pliers are not available in the U.S.A.



Compact, inexpensive and light-weight crimping pliers for fitting and repairs. The electrician needs only one tool now instead of five as before.

- just one tool for the most common crimping applications
- crimping dies changed quickly and easily without any additional tool
- secure and protected storage of the interchangeable dies in a round magazine
- comfortable, powerful crimping pliers in professional quality
- same reliable crimping results as with fixed crimping dies
- repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- Chrome vanadium electric steel in special quality, oil-hardened
- Round magazine: plastic, fibreglass-reinforced



Changing position: service lever opens out for parallel jaw positioning



Changing the crimping dies: unlock the magazine position, take out the set of dies which the pliers have been pushed on



Fold in the service lever and press the pliers – ready for use again



Magazine for crimping dies can be carried on a belt



Clearly visible marking on the crimping dies with pictograms

The MultiCrimp® Pliers are not available in the U.S.A.

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | | | Applications | Capacity mm² | AWG | Number of crimping positions | ⚖ g |
|-------------|-----------------|--|----|-----------|---------------------------------|--|--|--|--------------------------|-------------------|------------------------------------|--------|
| 97 33 01 | 066927 | 250 | MM | burnished | with multi-com- ponent grips | | | non-insulated, open plug- type connectors | 0.5 - 6.0 | 20 - 10 | 3 | 770 |
| | | | | | | | | insulated terminals and plug connectors | 0.5 - 6.0 | 20 - 10 | 3 | |
| | | | | | | | | End Sleeves (ferrules) | 0.25 - 6.0 | 23 - 10 | 5 | |
| 97 33 02 | 066934 | 250 | MM | burnished | with multi-com- ponent grips | | | non-insulated, open plug- type connectors | 0.5 - 6.0 | 20 - 10 | 3 | 870 |
| | | | | | | | | insulated terminals and plug connectors | 0.5 - 6.0 | 20 - 10 | 3 | |
| | | | | | | | | End Sleeves (ferrules) | 0.25 - 6.0 | 23 - 10 | 5 | |
| | | | | | | | | non-insulated terminals and plug connectors | 0.5 - 10.0 | 20 - 7 | 4 | |
| | | | | | | | | non-insulated butt connectors | 1.5 - 4.0 6.0 + 10.0* | 15 - 11 10 + 7 | 3 2 | |
| 97 39 05 | 070078 | Crimping dies for non-insulated open plug-type connectors 4.8 + 6.3 mm | | | | | | | | | | |
| 97 39 06 | 070085 | Crimping dies for insulated terminals + plug connectors | | | | | | | | | | |
| 97 39 08 | 070092 | Crimping dies for end sleeves (ferrules) | | | | | | | | | | |
| 97 39 13 | 070108 | Crimping dies for non-insulated terminals + plug connectors | | | | | | | | | | |
| 97 39 30 | 070115 | Crimping dies for non-insulated butt connectors | | | | | | | | | | |
| 97 39 90 | 070061 | Quick Changer Magazine empty | | | | | | | | | | |

* compression joints in conformance to DIN 46267

97
43

Crimp System Pliers

for exchangeable crimping dies

PATENTED



97 43 200
MM



97 43 200 A
MM

With the possibility of crimping almost all currently available crimping connections with just one tool and state-of-the-art crimping pliers technology, the crimping system pliers solves almost all tasks in mobile and stationary crimping technology and is an excellent tool for professionals to use for standard crimping.

- just one tool for almost 1000 crimping applications
- almost parallel crimping die movement
- repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- crimping pressure has been set precisely (calibrated) in the factory, re-adjustable
- optimum transmission of force due to lever action for fatigue-reduced operation
- ergonomically designed handles
- different locators for precise positioning of the connectors
- crimping dies for applications not covered in the range offered here, may be available on request
- Chrome vanadium electric steel in special quality, oil-hardened

97 43 200

comes in a plastic case; foam insert with recesses for crimping dies and locators; with service tool (Allen key), screws and nuts; without crimping dies

97 43 200 A

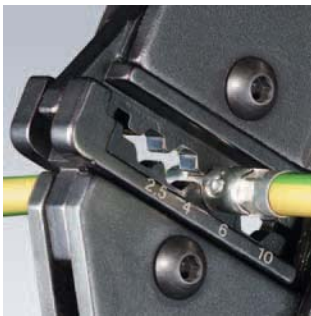
Pliers without crimping dies, without case

97 43 05

with attached crimping dies for non-insulated open plug-type connectors (4.8 and 6.3 mm connector width)

97 43 06

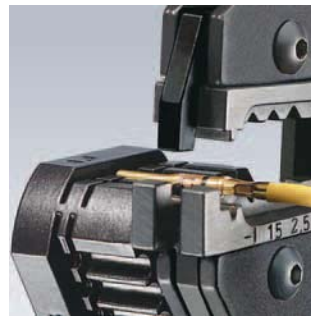
with attached crimping dies for insulated terminals and plug connectors



Crimp System Pliers 97 43 200 with crimping dies 94 49 30 for non-insulated butt connectors



Crimp System Pliers 97 43 200 with crimping dies 97 49 35 for spark plug connectors



97 43 200 with crimping dies 97 49 61 and revolvable locator 97 49 90 for turned types of connectors with varying pin diameters



97 43 400 Crimp System Pliers with crimping dies 97 49 24 and locator 97 49 93 for D-Sub plugs

| Article No. | EAN 4003773- | ↔ mm | | | Pliers | Handles | Applications | Capacity mm ² | AWG | Number of crimping positions | g |
|-------------|--------------|------|----|--|-----------|----------------------------|--|--------------------------|---------|------------------------------|-----|
| 97 43 200 | 030812 | 200 | MM | | burnished | with multi-component grips | see crimping dies table | | | | 988 |
| 97 43 200 A | 071587 | 200 | MM | | burnished | with multi-component grips | see crimping dies table | | | | 574 |
| 97 43 05 | 031031 | 200 | MM | | burnished | with multi-component grips | Crimp System Pliers for non-insulated open plug-type connectors (4.8 and 6.3 mm connector width) | 0.5 - 6.0 | 20 - 10 | 3 | 618 |
| 97 43 06 | 031048 | 200 | MM | | burnished | with multi-component grips | Crimp System Pliers for insulated terminals and plug connectors | 0.5 - 6.0 | 20 - 10 | 3 | 610 |

Crimping Dies for Crimp System Pliers

Special profiles
on request

| Article No. | EAN 4003773- | | Applications | Capacity mm ² | AWG | Capacity SW mm | Sleeves Ø mm | Number of crimping positions | g |
|-------------|--------------|--|--|---------------------------------------|-------------------|------------------------------|-------------------------------|------------------------------|----|
| 97 49 04 | 030850 | | non-insulated Plug Connectors | 0.1 - 2.5 | 27 - 13 | | | 4 | 42 |
| 97 49 05 | 030867 | | non-insulated Plug Connectors | 0.5 - 6.0 | 20 - 10 | | | 3 | 46 |
| 97 49 06 | 030836 | | insulated terminals and plug connectors | 0.5 - 6.0 | 20 - 10 | | | 3 | 45 |
| 97 49 08 | 030874 | | End Sleeves (ferrules) | 0.25 - 6.0 | 23 - 10 | | | 5 | 49 |
| 97 49 09 | 030881 | | End Sleeves (ferrules) | 10 / 16 / 25 | 7 / 5 / 3 | | | 3 | 50 |
| 97 49 13 | 030843 | | non-insulated terminals and plug connectors | 0.5 - 10.0 | 20 - 7 | | | 4 | 37 |
| 97 49 15 | 043164 | | lug connectors and non-insulated open plug type connectors (plug width 6.3 mm) | 1.25-2.5 + 3.0-6.0 | 17 - 13; 12 - 9 | | | 2 + 1 | 56 |
| 97 49 16 | 040675 | | insulated terminals and plug connectors | 10.0 - 16.0 | 7 / 5 | | | 2 | 46 |
| 97 49 18 | 063186 | | Twin end sleeves (ferrules) for two flexible conductors | 2x6 / 10 / 16 | 10 / 7 / 5 | | | 3 | 48 |
| 97 49 19 | 030898 | | End Sleeves (ferrules) | 35 - 50 | 2 / 0 | | | 2 | 46 |
| 97 49 20 | 045069 | | F-connectors for TV and satellite connections | | | 7.0; 8.4; 8.1 | 7.7; 9.5; 9.5 | 3 | 50 |
| 97 49 23 | 052135 | | non-insulated terminals and plug connectors | 16 + 25 | 5 + 3 | | | 2 | 45 |
| 97 49 24 | 030911 | | D Sub; HD 20; HDE plug | 0.03 - 0.56 | 32 - 20 | | | 3 | 41 |
| 97 49 30 | 030904 | | non-insulated butt connectors | 1.5 - 4.0 6.0 + 10.0* | 15 - 11 10 + 7 | | | 3 2 | 37 |
| 97 49 35 | 034315 | | spark plug connectors and distributors | 1 | 17 | | | 5 | 52 |
| 97 49 40 | 030959 | | Coax connectors RG 58, 59, 62, 71, 223 | | | 5.4; 6.48; 1.72 | 6.4; 7.6; 2.1 | 3 | 57 |
| 97 49 44 | 041443 | | rolled contacts | 0.14 - 1.5 | 26 - 15 | | | 3 | 45 |
| 97 49 50 | 030966 | | Coax connectors / Car phone RG 58, 174, 188, 316 | | | 3.25; 4.52; 5.41; 1.72; 1.07 | 3.9; 5.4; 6.4; 2.1; 1.3; 0.95 | 6 | 48 |
| 97 49 54 | 041450 | | modular plugs | 0.5 - 2.5 | 20 - 13 | | | 4 | 49 |
| 97 49 59 | 073734 | | solar cable connectors Helios H4 (Amphenol) | 2.5 + 4.0 + 6.0 mm ² | 13 - 10 | | | 3 | 35 |
| 97 49 60 | 030928 | | turned contacts (HTS + Harting) | 0.14 - 4.0 | 26 - 11 | | | 4 | 53 |
| 97 49 62 | 063179 | | solar cable connectors (Huber + Suhner) | 2.5 + 4.0 | 13 + 11 | | | 3 | 41 |
| 97 49 63 | 066675 | | solar cable connectors (Huber + Suhner) | 4.0 + 6.0 | 11 + 10 | | | 3 | 33 |
| 97 49 64 | 044055 | | ABS connectors | 1.0 - 6.0 | 17 - 10 | | | 2 | 73 |
| 97 49 65 | 066682 | | solar cable connectors MC3 (Multi-Contact) | 2.5 - 6.0 | 13 - 10 | | | 3 | 33 |
| 97 49 66 | 066699 | | solar cable connectors MC4 (Multi-Contact) | 2.5 - 6.0 | 13 - 10 | | | 3 | 33 |
| 97 49 66 4 | 072096 | | solar cable connectors MC4 (Multi-Contact) cutting - stripping - crimping | 4.0 | 11 | | | 1 | 35 |
| 97 49 66 6 | 072102 | | solar cable connectors MC4 (Multi-Contact) cutting - stripping - crimping | 6.0 | 10 | | | 1 | 35 |
| 97 49 67 | 066705 | | solar cable connectors (Hirschmann) | 2.5 - 6.0 | 13 - 10 | | | 3 | 33 |
| 97 49 68 | 066712 | | solar cable connectors (Tyco) | 1.5 - 6.0 | 15 - 10 | | | 4 | 33 |
| 97 49 69 1 | 072119 | | solar cable connectors (Wieland) | 1.5 - 2.5 | 15 + 13 | | | 2 | 35 |
| 97 49 69 2 | 072126 | | solar cable connectors (Wieland) | 4.0 - 10.0 | 11 - 7 | | | 3 | 35 |
| 97 49 70 | 030942 | | Western plugs | 4, 6, 8-poles RJ 10 / 11 / 12 / 45 | | | | 3 | 72 |
| 97 49 74 | 044062 | | unshielded Molex plugs | 4, 6, 8-poles RJ 10 / 11 / 12 / 45 | | | | 3 | 42 |
| 97 49 76 | 047513 | | shielded Stewart plugs | | | | | 2 | 50 |
| 97 49 81 | 042778 | | Harting connectors for fibre optics | | | 3.0; 4.95; 6.5 | 3.5; 6.0; 7.5 | 3 | 52 |
| 97 49 82 | 042785 | | Telegärtner connectors for fibre optics | | | 3.25; 3.65; 4.52 | 3.6; 4.0; 5.4 | 3 | 58 |




* compression joints in conformance to DIN 46267

SOLAR CONNECTORS

SOLAR CONNECTORS

97
49

Crimping Dies for Crimp System Pliers

| Article No. | EAN 4003773- | | Applications | Capacity mm ² | AWG | Capacity SW mm | Sleeves Ø mm | Number of crimping positions | g |
|-------------|--------------|---|---|--------------------------|-----|----------------|---------------|------------------------------|----|
| 97 49 83 | 044079 |  | F-SMA, ST-, SC + STSC/K-connectors for fibre optics | | | 3.65; 4.2; 5.0 | 4.3; 5.4; 6.0 | 3 | 60 |
| 97 49 84 | 042792 |  | Harting/Suhner connectors for fibre optics | | | 3.8; 4.3; 4.95 | 4.5; 5.2; 6.0 | 3 | 52 |
| 97 49 87 | 043331 |  | F-SMA, ST and MIC connectors for fibre optics | | | 8.7 | 9.5 | 1 | 46 |

* compression joints in conformance to DIN 46267

97

Locators for crimping pliers and crimping dies

| Article No. | EAN 4003773- | Applications | g |
|-------------|--------------|---|-----|
| 97 49 59 1 | 073741 | Locator for 97 49 59 | 55 |
| 97 49 65 1 | 066729 | Locator for 97 49 65 (solar cable connectors MC3) | 72 |
| 97 49 66 1 | 066736 | Locator for 97 49 66 (solar cable connectors MC4) | 72 |
| 97 49 68 1 | 066743 | Locator for 97 49 68 (solar cable connectors Solarlok) | 72 |
| 97 49 69 11 | 072133 | Locator for 97 49 69 1 and 97 49 69 2 | 55 |
| 97 49 90 | 031017 | Locator for 97 49 60 (HTS+Harting) | 69 |
| 97 49 93 | 047926 | Locator for 97 49 24 (D-Sub-plugs) | 39 |
| 97 49 94 | 030997 | Locator for 97 49 04 / 97 52 04 / 97 52 34 | 69 |
| 97 49 95 | 031000 | Locator for 97 49 05 / 97 52 05 / 97 52 35 | 22 |
| 97 59 65 2 | 071600 | Locator for 97 52 65 / 97 52 65 A / 97 52 65 DG / 97 52 65 DG A | 237 |



Locator 97 59 65 2 for four-mandrel crimping pliers, adjustable in length and diameter for various plugs

97

Mounting Tool for MC3 connectors



97 49 65 2

- for easy and quick assembly of MC3 solar cable connectors
- for fit solar sleeves for connectors from 2.5 to 10.0 mm²
- three capsules (2.5 / 4.0; 6.0; 10.0 mm²) for pulling on the sleeves, integrated in the detachable handle
- Body: plastic, fibreglass-reinforced



The assembly tool comes with three torpedo mandrels for the various cable cross-sections

SOLAR TOOL

| Article No. | EAN 4003773- | ↔ mm | Capacity mm ² | g |
|-------------|--------------|------|--------------------------|-----|
| 97 49 65 2 | 072010 | 325 | 2.5 - 10.0 | 460 |

97

Set of Mounting Tools

for solar cable connectors MC4 (Multi-Contact)



97 49 66 2

- set of two mounting tools
- to tighten cable glands of MC4 solar plugs
- to open the locking of MC4 housings (even in case of mounted lock clip)
- Tool: plastic, fibreglass reinforced

SOLAR TOOL

| Article No. | EAN 4003773- | ↔ mm | g |
|-------------|--------------|------|----|
| 97 49 66 2 | 074106 | 115 | 18 |

97
50

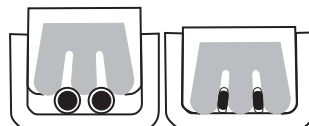
Crimping Pliers for Scotchlok connectors with side cutter



97 50 01



- for crimping plastic-insulated telecommunication or signal cables using the U-contact principle in single Scotchlok connectors
- no stripping necessary, U-shaped elements establish the connection
- cutting edges additionally induction hardened
- with opening spring
- Vanadium electric steel; forged, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | | Head | Handles | Applications | Capacity Ø mm | g |
|-------------|--------------|------|----|--|----------|----------------|----------------------------|---------------|-----|
| 97 50 01 | 028239 | 155 | MM | | polished | plastic coated | Scotchlok single connector | 0.4 - 1.1 | 135 |

97
51

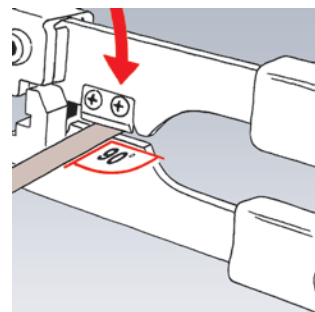
Crimping Pliers for Western plugs



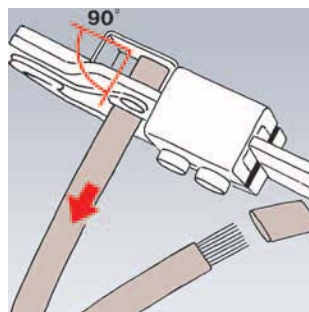
97 51 04



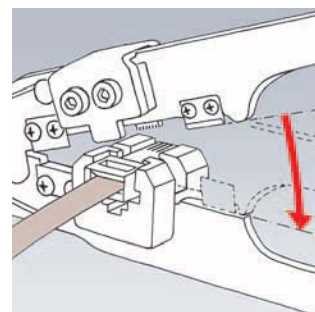
- for cutting and stripping unshielded ribbon telephone cables
- for crimping 4-pole Western plugs type RJ 10 (7.65 mm wide)
- Chrome vanadium electric steel in special quality, oil-hardened



Cut cables



Strip cables



Crimp Western plugs

| Article No. | EAN 4003773- | ↔ mm | | | | Pliers | Handles | Capacity | Number of crimping positions | g |
|-------------|--------------|------|----|--|--|-----------|--------------------|-------------------------|------------------------------|-----|
| 97 51 04 | 028048 | 190 | MM | | | burnished | with plastic grips | RJ 10 (4-poles) 7.65 mm | 1 | 218 |

97 59 06 029700 4 spare blades for 97 51 04 / 97 51 10

97
51

Crimping Pliers for Western plugs



97 51 10
W



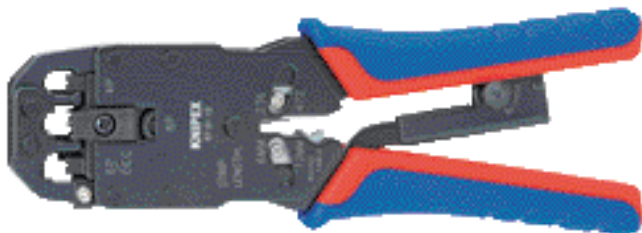
- professional tool for cutting and stripping unshielded ribbon telephone cables
- for crimping 6- and 8-pole Western plugs type RJ 11/12 (9.65 mm width) and type RJ 45 (11.68 mm width)
- exact crimping process due to parallel crimping
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- with length cutter and dismantling knife for ribbon cables 6 and 12 mm length
- with additional stripping device for round cables
- Chrome vanadium electric steel in special quality, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | | | Pliers | Handles | Capacity | Number of crimping positions | g |
|-------------|--------------|--|---|--|--|-----------|----------------------------|---|------------------------------|-----|
| 97 51 10 | 043171 | 190 | W | | | burnished | with multi-component grips | RJ 11/12 (6-poles) 9.65 mm RJ 45 (8-poles) 11.68 mm | 2 | 340 |
| 97 59 06 | 029700 | 4 spare blades for 97 51 04 / 97 51 10 | | | | | | | | |

97
51

Crimping Pliers for Western plugs



97 51 12
W



- professional tool for cutting and stripping unshielded ribbon telephone cables
- for crimping 4-, 6- and 8-pole Western plugs type RJ 10 (7.65 mm width), type RJ 11/12 (9.65 mm width) and type RJ 45 (11.68 mm width)
- exact crimping process due to parallel crimping
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- optimum transmission of force due to toggle lever action for fatigue-reduced operation
- with length cutter and dismantling knife for ribbon cables 6 and 12 mm length
- with additional stripping device for round cables
- Chrome vanadium electric steel in special quality, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | | | Pliers | Handles | Capacity | Number of crimping positions | g |
|-------------|--------------|---------------------------|---|--|--|-----------|----------------------------|---|------------------------------|-----|
| 97 51 12 | 043188 | 200 | W | | | burnished | with multi-component grips | RJ 10 (4-poles) 7.65 mm RJ 11/12 (6-poles) 9.65 mm RJ 45 (8-poles) 11.68 mm | 3 | 522 |
| 97 59 12 | 069997 | Spare blades for 97 51 12 | | | | | | | | |

97
52

Crimping Pliers also for two-hand operation



97 52 04
MM



97 52 06
MM



97 52 09
MM



97 52 10
MM



First step: move the handle with two fingers only until both jaws touch the connector to be crimped



Second step: now use the whole hand for further crimping procedure



Third step: when greater hand force is required, such as e.g. when crimping insulated connectors 6.0 mm², two-hand operation is possible by the longer handles

- for solder-free electrical connections
- the ingenious lever transmission reduces the handforce up to 30 % compared with regular crimping pliers
- repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- crimping pressure has been set precisely (calibrated) in the factory, re-adjustable
- two-hand operation for easy crimping of large conductor diameters
- easy handling as a result of well balanced centre of gravity, angled head and ergonomically shaped handles
- Chrome vanadium electric steel in special quality, oil-hardened

| Article No. | EAN 4003773- | ↔ mm | Pliers | Handles | | Applications | Capacity mm² | AWG | Number of crimping positions | g |
|-------------|--------------|------|--------|-----------|-----------------------------|---|--------------|-----------|------------------------------|-----|
| 97 52 04 | 025450 | 250 | MM | burnished | with non-slip plastic grips | non-insulated, open plug-type connectors | 0.1 - 2.5 | 27 - 13 | 4 | 562 |
| 97 52 05 | 025467 | 250 | MM | burnished | with non-slip plastic grips | non-insulated, open plug-type connectors | 0.5 - 6.0 | 20 - 10 | 3 | 572 |
| 97 52 06 | 025474 | 250 | MM | burnished | with non-slip plastic grips | insulated terminals and plug connectors | 0.5 - 6.0 | 20 - 10 | 3 | 565 |
| 97 52 08 | 025481 | 250 | MM | burnished | with non-slip plastic grips | End Sleeves (ferrules) | 0.25 - 6.0 | 23 - 10 | 5 | 565 |
| 97 52 09 | 025498 | 250 | MM | burnished | with non-slip plastic grips | End Sleeves (ferrules) | 10 / 16 / 25 | 7 / 5 / 3 | 3 | 571 |
| 97 52 10 | 023678 | 250 | MM | burnished | with non-slip plastic grips | Coax-, BNC- and TNC-connectors | | | 3 | 577 |
| 97 52 13 | 048084 | 250 | MM | burnished | with non-slip plastic grips | non-insulated terminals and plug connectors | 0.5 - 10.0 | 20 - 7 | 4 | 558 |
| 97 52 19 | 052142 | 250 | MM | burnished | with non-slip plastic grips | End Sleeves (ferrules) | 35 + 50 | 2 + 0 | 2 | 567 |
| 97 52 23 | 052159 | 250 | MM | burnished | with non-slip plastic grips | non-insulated terminals and plug connectors | 16 + 25 | 5 + 3 | 2 | 565 |

97 49 94 030997 Locator for 97 49 04 / 97 52 04 / 97 52 34

97 49 95 031000 Locator for 97 49 05 / 97 52 05 / 97 52 35

97
52

Crimping Pliers short design



97 52 14



- repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- crimping pressure has been set precisely (calibrated) in the factory, re-adjustable
- optimum transmission of force due to toggle lever action for fatigue-reduced operation
- good handling due to 20° angled head, low weight and short design
- Chrome vanadium electric steel in special quality, oil-hardened



97 52 14

available as accessory: locator for non-insulated open plug-type connectors

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | | | Applications | Capacity mm² | AWG | Number of crimping positions | g |
|-------------|--------------|----------------------|---|-----------|----------------------------|---|---|---|--------------|---------|------------------------------|-----|
| 97 52 14 | 026808 | 195 | W | burnished | with multi-component grips | W | W | non-insulated open plug type connectors (plug width 2.8 + 4.8 mm) | 0.10 - 1.5 | 27 - 16 | 4 | 387 |
| 97 52 20 | 026853 | 195 | W | burnished | with multi-component grips | W | W | Coax-, BNC- and TNC-connectors RG 58/59/62/71/223 | | | 3 | 380 |
| 97 59 14 | 026976 | Locator for 97 52 14 | | | | | | | | | | |

97
52

KNIPEX PreciForce® Crimping Pliers

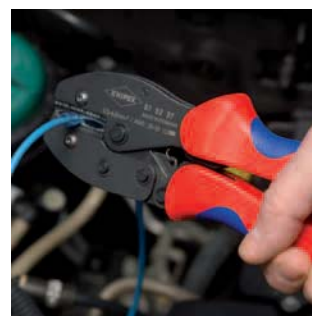


For daily crimping applications, the specialist likes crimping pliers that work precisely and reliably. In addition, they should be light, comfortable to use, robust and reasonably priced: PreciForce®.

- repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- crimping pressure has been set precisely (calibrated) in the factory, re-adjustable
- high transmission of force thanks to toggle lever action for fatigue-reduced working
- good handling thanks to favourable handle position, low weight, compact design and ergonomically shaped handles
- Chrome vanadium electric steel in special quality, oil-hardened



97 52 36



97 52 37



97 52 34



97 52 36



97 52 38



| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | | | Applications | Capacity mm ² | AWG | Number of crimping positions | Δ g |
|-------------|--------------|---------|----|-----------|----------------------------|---|--|---|-----------------------------|-------------------|------------------------------------|--------|
| 97 52 30 | 051855 | 220 | MM | burnished | with multi-component grips | ☐ | | non-insulated butt connectors | 1.5 - 4.0 6.0 + 10.0* | 15 - 11 10 + 7 | 3 2 | 477 |
| 97 52 33 | 051862 | 220 | MM | burnished | with multi-component grips | ☐ | | non-insulated terminals and plug connectors | 0.5 - 10.0 | 20 - 7 | 4 | 478 |
| 97 52 34 | 051879 | 220 | MM | burnished | with multi-component grips | ☐ | | non-insulated open plug type connectors (plug width 2.8 + 4.8 mm) | 0.1 - 2.5 | 27 - 13 | 4 | 483 |
| 97 52 35 | 051886 | 220 | MM | burnished | with multi-component grips | ☐ | | non-insulated open plug type connectors (plug width 4.8 + 6.3 mm) | 0.5 - 6.0 | 20 - 10 | 3 | 494 |
| 97 52 36 | 051893 | 220 | MM | burnished | with multi-component grips | ☐ | | insulated terminals and plug connectors | 0.5 - 6.0 | 20 - 10 | 3 | 487 |
| 97 52 37 | 063193 | 220 | MM | burnished | with multi-component grips | ☐ | | heat shrinkable sleeve connectors | 0.5 - 6.0 | 20 - 10 | 3 | 478 |
| 97 52 38 | 051909 | 220 | MM | burnished | with multi-component grips | ☐ | | End Sleeves (ferrules) | 0.25 - 6.0 | 23 - 10 | 5 | 493 |
| 97 52 50 | 051916 | 220 | MM | burnished | with multi-component grips | ☐ | | Coax-, BNC- and TNC-connectors for RG 58/174/188/316 | | | 6 | 498 |

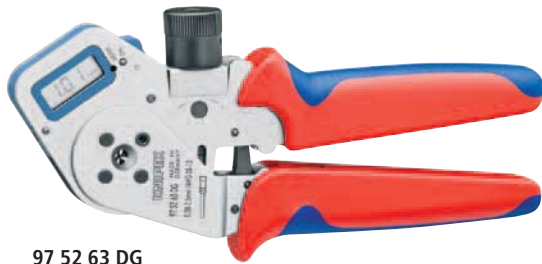
97 49 94 030997 Locator for 97 49 04 / 97 52 04 / 97 52 34

97 49 95 031000 Locator for 97 49 05 / 97 52 05 / 97 52 35

* compression joints in conformance to DIN 46267

97
52

Four-Mandrel Crimping Pliers for turned contacts



97 52 63 DG

(PATENTED)



97 52 64



97 52 65

(PATENTED)



97 52 65 DG

(PATENTED)



97 59 65 2



Turned contacts are used for particularly demanding plug-type connections, e.g. in medical industry and aeronautics. Extremely reliable crimping connections can be achieved only with pliers that work with absolute precision and maintain the required crimping depth in the 1/100 mm range.

- for crimping turned contacts
- four-mandrel crimping for top-quality crimping connections
- mandrel gauge to check the basic setting
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- optimum transmission of force due to highly effective lever action for fatigue-reduced operation
- high operation comfort thanks to handy shape
- Chrome vanadium electric steel in special quality, oil-hardened

97 52 63

fine adjustment of pressure depending on the conductor's diameter by means of adjusting wheel; pliers in the plastic case with foam insert and standard locator for precise positioning of the contacts

97 52 63 DG

fine adjustment of pressure depending on the conductor's diameter by means of adjusting wheel; with digital display of the preset crimping capacities; display reversible between mm / inch and MIL numerical values; pliers in a plastic case with foam insert and standard locator for precise positioning of the contacts

97 52 64

pressure adjustment depending on the conductor's diameter by means of adjusting wheel in 4 different positions; locator for positioning the contacts

97 52 65

fine adjustment of pressure depending on the conductor's diameter by means of adjusting wheel; locator for positioning the contacts; with table for calculating the settings; pliers in a plastic case with foam insert

97 52 65 DG

fine adjustment of pressure depending on the conductor's diameter by means of adjusting wheel; with digital display of the preset crimping capacities; display reversible between mm / inch and MIL numerical values; with table for calculating the settings; pliers in a plastic case with foam insert and standard locator for precise positioning of the contacts

97 52 65 A

fine adjustment of pressure depending on the conductor's diameter by means of adjusting wheel; with table for calculating the settings; pliers in a plastic case with foam insert

97 52 65 DG A

fine adjustment of pressure depending on the conductor's diameter by means of adjusting wheel; with digital display of the preset crimping capacities; display reversible between mm / inch and MIL numerical values; with table for calculating the settings; pliers in a plastic case with foam insert; without locator

97 59 65 2





















Universal Locator for 97 52 65 / 97 52 65 A / 97 52 65 DG / 97 52 65 DG A; Chrome vanadium electric steel in special quality, oil-hardened

- locator that is universally adjustable (in length and diameter) for the repeatable exact alignment of turned contacts in crimping pliers; can be set to all commercially available contacts in the four-mandrel crimping pliers' capacity range



Standard locator



| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | | | Applications | Capacity mm ² | AWG | Number of crimping positions | g |
|---------------|--------------|---|---|---------------|----------------------------|---|---|---|--------------------------|---------|------------------------------|-----|
| 97 52 63 | 050148 | 180 |  | nickel plated | with multi-component grips |  |  | turned contacts | 0.08 - 2.5 | 28 - 13 | 1 | 388 |
| 97 52 63 DG | 063209 | 195 |  | nickel plated | with multi-component grips |  |  | turned contacts | 0.08 - 2.5 | 28 - 13 | 1 | 388 |
| 97 52 64 | 044093 | 180 |  | nickel plated | with multi-component grips |  |  | turned contacts | 0.08 - 2.5 | 28 - 13 | 1 | 424 |
| 97 52 65 | 045236 | 230 |  | nickel plated | with multi-component grips |  |  | turned contacts (Harting; Ilme; Phoenix; Amphenol; Walther; HTS; Contact; Weidmüller) | 0.14 - 6.0 | 25 - 10 | 1 | 676 |
| 97 52 65 DG | 063216 | 250 |  | nickel plated | with multi-component grips |  |  | turned contacts (Harting; Ilme; Phoenix; Amphenol; Walther; HTS; Contact; Weidmüller) | 0.14 - 6.0 | 25 - 10 | 1 | 633 |
| 97 52 65 A | 071594 | 250 |  | nickel plated | with multi-component grips |  |  | turned contacts (Harting; Ilme; Phoenix; Amphenol; Walther; HTS; Contact; Weidmüller) | 0.14 - 6.0 | 25 - 10 | 1 | 604 |
| 97 52 65 DG A | 071990 | 250 |  | nickel plated | with multi-component grips |  |  | turned contacts (Harting; Ilme; Phoenix; Amphenol; Walther; HTS; Contact; Weidmüller) | 0.14 - 6.0 | 25 - 10 | 1 | 633 |
| 97 59 65 2 | 071600 | Universal Locator for 97 52 65 / 97 52 65 A / 97 52 65 DG / 97 52 65 DG A | | | | | | | | | | |

97
53

Self-Adjusting Crimping Pliers for end sleeves (ferrules) with lateral access

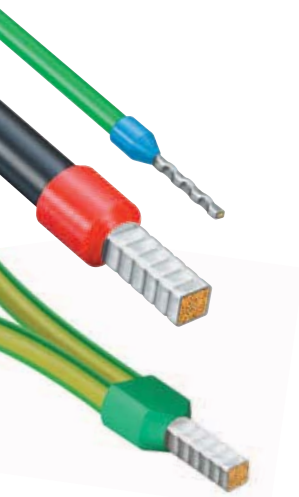
(PATENTED)



97 53 04



97 53 14



Compact crimping pliers for end sleeves (ferrules) with two great advantages for the user:

- Automatic self-adjustment to the end sleeve (ferrule) used: this allows the specialist to work with less strain and enables secure, reliable and quick crimping.
- Extensive range of applications: square crimping 0.08 to 10.0 mm², hexagon crimping 0.08 to 6.0 mm²

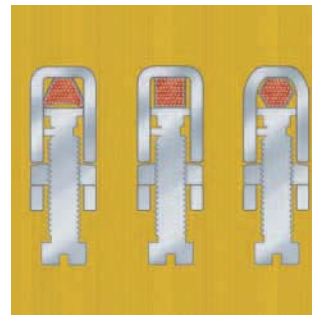
- for crimping end sleeves (ferrules) according to DIN 46228 parts 1 + 4
- self-adjusting adaptation to the desired end sleeve (ferrule) size: no wrong crimps caused by using the wrong die
- fits all twin ferrules within the application range
- lateral access of the end sleeves (ferrules) into the tool
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- these tools have been set precisely (calibrated) in the factory, re-adjustable
- optimum transmission of force due to toggle lever action for fatigue-reduced operation
- high operation comfort thanks to handy shape and low weight
- Chrome vanadium electric steel in special quality, oil-hardened

97 53 04

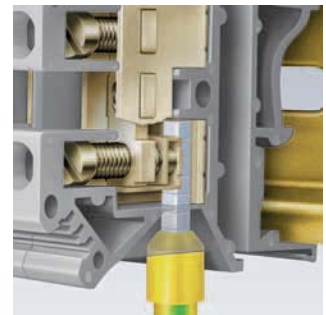
square crimping for optimum contact areas in the clamp connection

97 53 14

hexagonal crimping for optimum positioning in confined areas



The square crimping allows better contact. The hexagonal crimping comes very close to the space-saving round shape. Compared with the square crimp, it has the same cross-section and can make optimum contact in narrow round terminal connectors. With both crimping shapes the often tricky feeding into the terminal connection is no longer necessary.



Square-crimped end sleeves (ferrules) always ensure good contact surfaces in the clamped connection

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | | | Applications | Capacity mm ² | AWG | Number of crimping positions | ⚖ g |
|-------------|--------------|------|---|-----------|----------------------------|---|--|------------------------|--------------------------|---------|------------------------------|-----|
| 97 53 04 | 028017 | 180 | ⌵ | burnished | with multi-component grips | ☒ | | End Sleeves (ferrules) | 0.08 - 10 | 28 - 7 | 1 | 405 |
| 97 53 14 | 041474 | 180 | ⌵ | burnished | with multi-component grips | ☒ | | End Sleeves (ferrules) | 0.08 - 6.0 | 28 - 10 | 1 | 404 |

97
53

Self-Adjusting Crimping Pliers for end sleeves (ferrules) with front loading

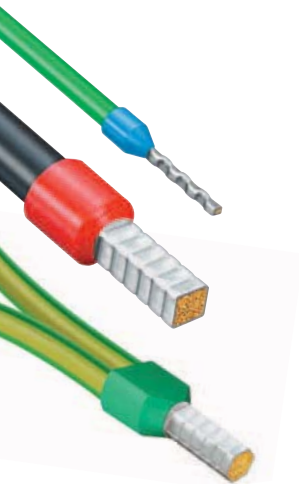
PATENTED



97 53 08



97 53 09



The crimping pliers for end sleeves (ferrules) with three great advantages for the user:

- Automatic self-adjustment to the end sleeve (ferrule) used: This allows the specialist to work with less strain and enables secure, reliable and quick crimping.
- Range of applications also for large cross-sections: square crimping 0.08 to 10.0 + 16.0 mm²
- Front loading: very helpful under difficult working conditions in confined spaces.

- for crimping end sleeves (ferrules) according to DIN 46228 parts 1 + 4
- self-adjusting adaptation to the desired end sleeve (ferrule) size: no wrong crimps caused by using the wrong die
- fits all twin-ferrules within the application range
- front loading of the end sleeves (ferrules) into the tool
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- crimping pressure has been set precisely (calibrated) in the factory, re-adjustable
- optimum transmission of force due to toggle lever action for fatigue-reduced operation
- high operation comfort thanks to handy shape and low weight
- Chrome vanadium electric steel in special quality, oil-hardened

97 53 08

crimping from 0.08 - 10.0 mm² in one profile; end sleeves (ferrules) up to 2.5 mm² can also be loaded parallelly from the side

97 53 09

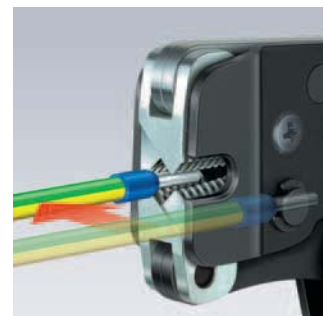
crimping from 0.08 - 10.0 and 16.0 mm² in one profile; with selector lever for setting the crimping area either to 0.08 - 10 mm² or 16 mm²



Square crimping



Front loading of end sleeves (ferrules) e.g. in switchboards



97 53 08: lateral loading of end sleeves (ferrules) up to 2.5 mm² parallelly from the side e.g. in confined areas

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | | | Applications | Capacity mm ² | AWG | Number of crimping positions | △ g |
|-------------|--------------|------|----|-----------|----------------------------|---|--|------------------------|--------------------------|------------|------------------------------|-----|
| 97 53 08 | 040187 | 190 | MM | burnished | with multi-component grips | ☒ | | End Sleeves (ferrules) | 0.08 - 10 | 28 - 7 | 1 | 477 |
| 97 53 09 | 044550 | 190 | MM | burnished | with multi-component grips | ☒ | | End Sleeves (ferrules) | 0.08 - 10 + 16 | 28 - 7 + 5 | 1 | 486 |

97
54

Crimping Pliers for micro plugs

parallel crimping



97 54 24



- parallel crimping performance to satisfy the particularly high standards of small connectors
- repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- fixed locator for D-Sub micro plugs for an exact positioning of connector and cable
- crimping pressure has been set precisely (calibrated) in the factory, re-adjustable
- optimum transmission of force due to toggle lever for fatigue-reduced operation
- crimping pliers for other mini plugs as e.g. HD 22, Modu IV, Micro Timer, MQS, ... on request
- Chrome vanadium electric steel in special quality, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | Pliers | Handles | | Applications | Capacity mm ² | AWG | Number of crimping positions | g |
|-------------|--------------|------|--------|-----------|----------------------------|------------------------|--------------------------|---------|------------------------------|-----|
| 97 54 24 | 060215 | 190 | MM | burnished | with multi-component grips | D Sub; HD 20; HDE plug | 0.03 - 0.56 | 32 - 20 | 3 | 305 |

97
6

Crimping Pliers for end sleeves (ferrules)



97 62 145 A



97 68 145 A



- for crimping end sleeves (ferrules) according to DIN 46228 parts 1 + 4 in the range from 0.25 up to 2.5 mm²
- crimping in marked trapezoidal dies for reliable connections between the sleeve and the conductor
- Vanadium electric steel; forged, oil-hardened

| Article No. | EAN 4003773- | ↔ mm | Head | Handles | | Capacity mm ² | AWG | Number of crimping positions | g |
|-------------|--------------|------|----------|--|--|--------------------------|---------|------------------------------|-----|
| 97 61 145 A | 035558 | 145 | polished | plastic coated | | 0.25 - 2.5 | 23 - 13 | 6 | 140 |
| 97 61 145 F | 043980 | 145 | MM | polished | | 0.25 - 2.5 | 23 - 13 | 6 | 140 |
| 97 62 145 A | 060154 | 145 | polished | with multi-component grips | | 0.25 - 2.5 | 23 - 13 | 6 | 170 |
| 97 68 145 A | 071754 | 145 | | insulated with multi-component grips, VDE-tested | | 0.25 - 2.5 | 23 - 13 | 6 | 175 |

97
7

Crimping Pliers for end sleeves (ferrules)



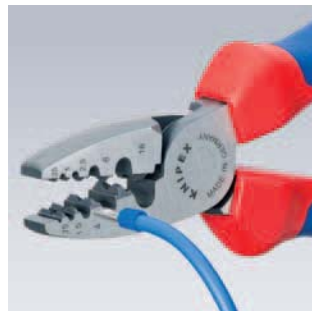
97 71 180



97 72 180



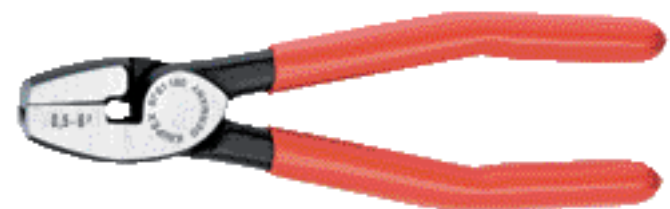
- for crimping end sleeves (ferrules) according to DIN 46228 parts 1 + 4 from 0.25 to 16 mm²
- crimping in marked half-round dies for reliable connections between the sleeve and the conductor
- 9 particularly deep dies with conical side faces
- Special tool steel, forged, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | Head | Handles | | Applications | Capacity mm ² | AWG | Number of crimping positions | g |
|-------------|--------------|------|----------|----------------------------|--|------------------------|--------------------------|--------|------------------------------|-----|
| 97 71 180 | 040668 | 180 | polished | plastic coated | | End Sleeves (ferrules) | 0.25 - 16.0 | 23 - 5 | 9 | 240 |
| 97 72 180 | 060185 | 180 | polished | with multi-component grips | | End Sleeves (ferrules) | 0.25 - 16.0 | 23 - 5 | 9 | 283 |

97
8

Crimping Pliers for end sleeves (ferrules) with front loading



97 81 180



- for crimping end sleeves (ferrules) according to DIN 46228 parts 1 + 4 in the range 0.5 to 6.0 mm²
- ideal for work in confined areas, e.g. in narrow and deep switch boxes
- Special tool steel, forged, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | Head | Handles | | Applications | Capacity mm ² | AWG | Number of crimping positions | g |
|-------------|--------------|------|----------|----------------|--|------------------------|--------------------------|---------|------------------------------|-----|
| 97 81 180 | 019794 | 180 | polished | plastic coated | | End Sleeves (ferrules) | 0.5 - 6.0 | 20 - 10 | 1 | 227 |

CRIMP ASSORTMENTS

97
90

Crimp Assortments for cable connectors



- in a TANOS MINI-systainer® (solid plastic box)
- two stackable plastic inserts with 6 trays each for connectors
- with an assortment of standard cable connectors



97 90 00



97 90 01



97 90 21



97 90 22

97 90 00

with Crimp Grip Pliers 97 00 215 A

97 90 01

with Crimping Pliers 97 32 225

97 90 21

with Crimping Pliers "PreciForce"
97 52 36 (for insulated terminals and
plug connectors)

97 90 22

with Self-Adapting Universal Insulation
Stripper "Multistrip 10" 12 42 195;
with Crimping Pliers "PreciForce"
97 52 36 (for insulated terminals and
plug connectors)



| Article No. | EAN 4003773- | Pliers | | Cable Connectors | Units | Cable mm ² | △ g |
|-------------|-----------------|--|---|--|-------|--------------------------|--------|
| 97 90 00 | 025375 | 97 00 215 A  |  | Female Sockets 6.0 x 0.8 mm ² | 25 | 0.5 - 1.0 | 1391 |
| | | | | Female Sockets 6.0 x 0.5 mm ² | 25 | 1.5 - 2.5 | |
| | | | | Female Sockets 8.0 x 0.8 mm ² | 25 | 1.5 - 2.5 | |
| | | | | Round Sockets 4.0 mm Ø | 25 | 0.5 - 1.0 | |
| | | | | Round Pin Plugs 4.0 mm Ø | 25 | 1.5 - 2.5 | |
| | | | | Cable Connectors, eye type 4.0 mm Ø | 25 | 0.5 - 1.0 | |
| 97 90 01 | 025382 | 97 32 225  |  | Cable Connectors, eye type 4.0 mm Ø | 25 | 1.5 - 2.5 | 1123 |
| | | | | Cable Connectors, eye type 5.0 mm Ø | 25 | 1.5 - 2.5 | |
| | | | | Cable Connectors, eye type 5.0 mm Ø | 25 | 4.0 - 6.0 | |
| | | | | Cable Connectors, eye type 6.0 mm Ø | 25 | 4.0 - 6.0 | |
| | | | | Insulated Butt Connectors | 25 | 0.5 - 1.0 | |
| | | | | Insulated Butt Connectors | 25 | 1.5 - 2.5 | |
| 97 90 21 | 062134 | 97 52 36  |  | Female Sockets 6.0 x 0.8 mm ² | 25 | 0.5 - 1.0 | 1416 |
| | | | | Female Sockets 6.0 x 0.5 mm ² | 25 | 1.5 - 2.5 | |
| | | | | Cable Connectors, eye type 4.0 mm Ø | 25 | 0.5 - 1.0 | |
| | | | | Cable Connectors, eye type 5.0 mm Ø | 25 | 0.5 - 1.0 | |
| | | | | Cable Connectors, eye type 5.0 mm Ø | 20 | 4.0 - 6.0 | |
| | | | | Cable Connectors, eye type 4.0 mm Ø | 25 | 1.5 - 2.5 | |
| 97 90 22 | 062141 | 97 52 36  |  | Cable Connectors, eye type 5.0 mm Ø | 25 | 1.5 - 2.5 | 1527 |
| | | | | Cable Connectors, eye type 6.0 mm Ø | 25 | 1.5 - 2.5 | |
| | | | | Cable Connectors, eye type 8.0 mm Ø | 20 | 4.0 - 6.0 | |
| | | | | Insulated Butt Connectors | 25 | 0.5 - 1.0 | |
| | | | | Insulated Butt Connectors | 25 | 1.5 - 2.5 | |
| | | | | Insulated Butt Connectors | 20 | 4.0 - 6.0 | |

97
90

Crimp Assortments for end sleeves (ferrules)



- in a TANOS MINI-systainer® (solid plastic box)
- two stackable plastic inserts with 6 trays each for connectors
- with an assortment of standard cable connectors



97 90 05



97 90 06



97 90 09



97 90 10



97 90 12



97 90 23



97 90 24

97 90 05
with Crimping Pliers for end sleeves
97 71 180; end sleeves (ferrules)
without collar

97 90 06
with Crimping Pliers for end sleeves
97 71 180; End Sleeves (ferrules)
with collar

97 90 09
with Self-Adjusting Crimping Pliers for
End Sleeves (ferrules) 97 53 04

97 90 10
with Self-Adjusting Insulation Stripper
12 40 200; with Self-Adjusting
Crimping Pliers for End Sleeves
(ferrules) 97 53 04

97 90 12
with Self-Adjusting Insulation Stripper
12 40 200; with Self-Adjusting
Crimping Pliers for End Sleeves
(ferrules) 97 53 08

97 90 23
with Crimping Pliers "PreciForce" for
End Sleeves (ferrules) 97 52 38

97 90 24
with Self-Adapting Universal Insulation
Stripper "Multistrip 10" 12 42 195;
with Self-Adjusting Crimping Pliers for
End Sleeves (ferrules) 97 53 08



Several boxes can be connected with
each other

| Article No. | EAN 4003773- | Pliers | | 200 x mm ² | 150 x mm ² | 100 x mm ² | 75 x mm ² | 50 x mm ² | 40 x mm ² | ⚖ g |
|-------------|-----------------|----------------------|--|------------------------------------|--------------------------|--------------------------|-------------------------|-------------------------|-------------------------|--------|
| 97 90 05 | 025535 | 97 71 180 | | 0.5 / 0.75 / 1.0 / 1.5 / 2.5 | 4.0 / 6.0 | | | 10.0 / 16.0 | | 930 |
| 97 90 06 | 025542 | 97 71 180 | | 0.5 / 0.75 / 1.0 / 1.5 | 2.5 | | 4.0 / 6.0 | 10.0 | 16.0 | 1000 |
| 97 90 09 | 028574 | 97 53 04 | | 0.5 / 0.75 / 1.0 / 1.5 / 2.5 | | 4.0 / 6.0 | | 10.0 | | 1420 |
| 97 90 10 | 046202 | 97 53 04 / 12 40 200 | | 0.5 / 0.75 / 1.0 / 1.5 / 2.5 | | 4.0 / 6.0 | | 10.0 | | 1353 |
| 97 90 12 | 048916 | 97 53 08 / 12 40 200 | | 0.5 / 0.75 / 1.0 / 1.5 / 2.5 | | 4.0 / 6.0 | | 10.0 | | 1427 |
| 97 90 23 | 062158 | 97 52 38 | | 0.5 / 0.75 / 1.0 / 1.5 / 2.5 | | 4.0 / 6.0 | | | | 1226 |
| 97 90 24 | 062394 | 97 53 08 / 12 42 195 | | 0.5 / 0.75 / 1.0 / 1.5 / 2.5 | | 4.0 / 6.0 | | 10.0 | | 1348 |

97
91

Tool Case for Photovoltaics



97 91 01

- with tools for photovoltaics
- without crimping dies – for individual equipment – please order separately (see ref. 97 49 ...)
- with service tools (hexagonal key) for the change of crimping dies
- shock-resistant plastic case
- foam insert with recesses for tools, crimping dies and locators
- external dimensions (W x H x D): 345 x 80 x 280 mm

| Article No. | EAN 4003773- | | | Units | g |
|-------------|-----------------|---|----------|-------|------|
| 97 91 01 | 070351 | Tool Case for Photovoltaics | | | 1964 |
| | | 12 12 11 Precision Insulation Stripper with shaped blades | /// | 1 | |
| | | 95 16 165 Cable Shears | ⚡ 1000 V | 1 | |
| | | 97 43 200 Crimp System Pliers | /// | 1 | |

not included (please order separately):

| | | |
|-------------|--------|---|
| 97 49 62 | 063179 | Crimping dies for solar cable connectors (Huber + Suhner) |
| 97 49 63 | 066675 | Crimping dies for solar cable connectors (Huber + Suhner) |
| 97 49 65 | 066682 | Crimping dies for solar cable connectors MC3 (Multi-Contact) |
| 97 49 65 1 | 066729 | Locator for 97 49 65 (solar cable connectors MC3) |
| 97 49 65 2 | 072010 | Mounting Tool for MC3 connectors |
| 97 49 66 | 066699 | Crimping dies for solar cable connectors MC4 (Multi-Contact) |
| 97 49 66 1 | 066736 | Locator for 97 49 66 (solar cable connectors MC4) |
| 97 49 66 4 | 072096 | Crimping dies for solar cable connectors MC4 (Multi-Contact) cutting - stripping - crimping |
| 97 49 66 6 | 072102 | Crimping dies for solar cable connectors MC4 (Multi-Contact) cutting - stripping - crimping |
| 97 49 67 | 066705 | Crimping dies for solar cable connectors SunCon (Hirschmann) |
| 97 49 68 | 066712 | Crimping dies for solar cable connectors Solarlok (Tyco) |
| 97 49 68 1 | 066743 | Locator for 97 49 68 solar cable connectors (Solarlok) |
| 97 49 69 1 | 072119 | Crimping dies for solar cable connectors gesis® PST 40 (Wieland) |
| 97 49 69 2 | 072126 | Crimping dies for solar cable connectors gesis® PST 40 (Wieland) |
| 97 49 69 11 | 072133 | Locator for 97 49 69 1 and 97 49 69 2 |
| 97 49 59 | 073734 | Crimping dies for solar cable connectors Helios H4 (Amphenol) |

97
91

Tool Case for Photovoltaics, MC3
(Multi-Contact)

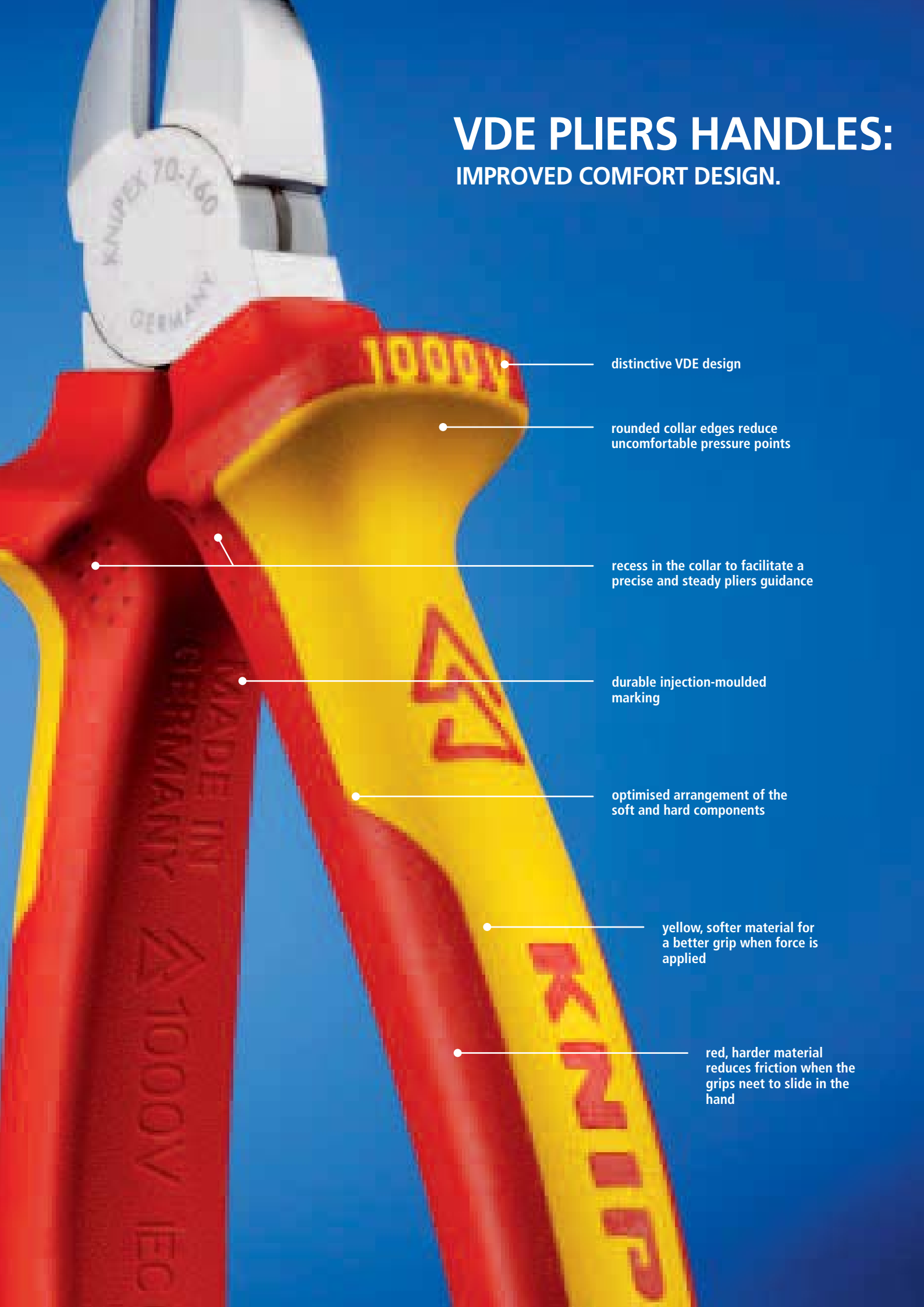
- the complete tool set to install MC3 connectors
- shock-resistant plastic case
- foam insert with recesses for the tools, crimping dies and locators
- with four empty plastic boxes for consumables for individual equipping
- dimensions, exterior (W x H x D): 360 x 105 x 300 mm



97 91 02

| Article No. | EAN | | | | Units | g |
|-------------|----------------|--|--|--|-------|------|
| 97 91 02 | 4003773-074083 | Tool Case for Photovoltaics, MC3 (Multi-Contact) | | | | 3280 |
| | 12 12 11 | Precision Insulation Stripper with shaped blades | | | 1 | |
| | 95 16 165 | Cable Shears | | | 1 | |
| | 97 43 200 | Crimp System Pliers | | | 1 | |
| | 97 49 65 | Crimping dies for solar cable connectors MC3 (Multi-Contact) | | | 1 | |
| | 97 49 65 1 | Locator for 97 49 65 (solar cable connectors MC3) | | | 1 | |
| | 97 49 65 2 | Mounting Tool for MC3 connectors | | | 1 | |
| 97 91 02 LE | 074090 | Tool Case for Photovoltaics, MC3 (Multi-Contact) empty | | | | |

VDE PLIERS HANDLES: IMPROVED COMFORT DESIGN.



distinctive VDE design

rounded collar edges reduce uncomfortable pressure points

recess in the collar to facilitate a precise and steady pliers guidance

durable injection-moulded marking

optimised arrangement of the soft and hard components

yellow, softer material for a better grip when force is applied

red, harder material reduces friction when the grips need to slide in the hand

INSULATED TOOLS

Work on electrical installations is subject to the special protection tasks of authorities and insurance companies. This resulted in the creation of diverse national and international safety standards (e.g. in Germany the VDE 0105 and BGR A3, internationally EN 50110 or IEC 60364). Only a qualified electrician who respects and follows these regulations is permitted to carry out work on electrical installations (including live working). He has to use special tools for this particular work that have been specifically made for this kind of work and have been thoroughly tested.

KNIPEX insulated tools are made of high-quality materials, which have been manufactured and tested in conformance with the regulations of national and international standards. If the prescribed method for working on electrical installations (see above), are observed, these tools offer the greatest possible protection even when it is necessary to work live up to AC 1000 V (alternating current) and DC 1500 V (direct current).

Since 1987 the IEC 60900 has specified worldwide requirements for tools for live working, while DIN EN 60900 made these mandatory for the EU countries as from 1995. Tests on KNIPEX tools which bear the special mark **1000V** include subjecting them to routine tests with 10,000 volts to check their dielectric strength. This gives the user a considerable buffer of additional protection even if work on electrical installations needs to be performed live.

The mark **1000V** identifies KNIPEX insulated tools as being suitable for live working. The specified standard also shows the requirements our claim can be measured against. The manufacturer name KNIPEX on the insulation indicates that we accept responsibility for the correctness of this information. The **GS** marks prove: The observation of these requirements is monitored not only by the KNIPEX quality assurance team but also e.g. by VDE (Association of German Electricians).

Because the purchase of insulated hand tools is a matter of trust.



Type examination, manufacturing inspections and stock monitoring by the neutral VDE testing centre.

COVER INSULATION (VERSION 6)

KNIPEX pliers with the two-colour multi-component handle cover insulation meet the requirements of VDE 0682 Part 201 and corresponding international standards (e.g. EN 60900 or IEC 60900). This claim is confirmed by the VDE/GS mark awarded by an obligatorily neutral inspection body.



The slip guard is designed so that the hand cannot slip unintentionally on conductive metal parts on the head of the pliers.

DIPPED INSULATION (VERSION 7)

Other hand tools such as open ended spanners/ single ended box wrenches, socket wrenches, ratchets etc. are insulated at KNIPEX using a plastic dipping method. These also meet all requirements of the VDE standard and corresponding international standards (such as IEC 60900 or DIN EN 60900). To round off this range, KNIPEX also insulates pliers in a dipping process to adapt these tools concerning appearance and production method to the other dipped insulated tools. These pliers also bear the VDE/GS mark.



The firmly bonded double dipped insulation is made of insulating material which is free of harmful substances and more than 1 mm thick at each point.

Extra thick insulation at the ends of the handles. This prevents cracks following an impact.

Always comply with the currently valid regulations and observe the SAFETY INSTRUCTIONS given below:

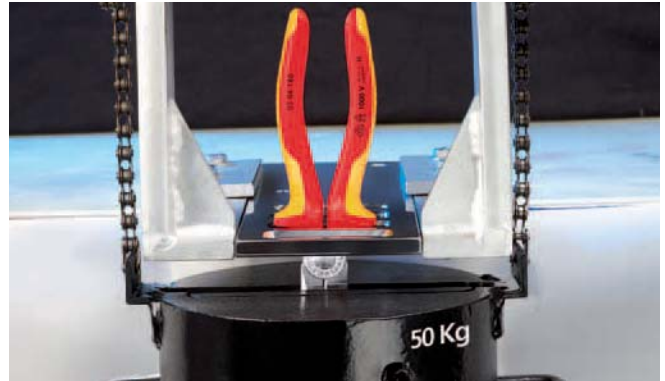
- Insulated tools must be transported in a manner that will prevent any damage to the insulation.
- Check before every use whether the insulation is damaged in any way, defective tools must be discarded.
- Always keep your insulated tools clean and dry.
- Wear protective goggles when working with cutting nippers or working overhead.
- Always wear goggles or a facial mask when working on live equipment.
- Make sure the workplace is clean and orderly, particularly when you are working on live installations.
- Wear protective clothing and use SAFETY equipment (e.g. insulating gloves, insulating mats, protective covers) especially in confined working spaces.
- Use only a tool with suitable dimensions. That will prevent slipping on the workpiece and unintentional contact with non-insulated parts.
- Make sure that detached parts or cut-off ends of conductors do not fall onto live parts.

KNIPEX INSULATED TOOLS – 100 % TESTED, ONE BY ONE



Testing dielectric strength

Each KNIPEX **1000 V** insulated tool has been tested individually. This individual testing is done with a test voltage of AC 10,000 volts. This test load, which is 10 times as high as the maximum permitted voltage during work, inspires the user to trust a reliable insulation when live working.



Testing the adhesion of the insulating coating

The adhesion of the insulation coating is tested after storage of 168 hours at 70°C. In case of pliers a tensile load of 500 N is applied. The insulating material must remain firmly bonded to the basic tool.



Testing low temperature impact strength

The tools are cooled down to -25°C. The insulation material must retain the toughness necessary to ensure that it does not break when hit or knocked.



Testing burning behaviour

KNIPEX uses only flame-resistant and self-extinguishing plastics for insulation.



Testing electrical insulation

After submersion in water for 24 hours, the tools are tested with AC 10,000 V for 3 minutes including measuring of the leakage current. The reading of the leakage current must stay below the limits defined in the standards.



Testing indentation resistance

The insulation heated to 70°C must prove under standardised test conditions that the warm plastic has sufficient mechanical strength to resist expected loads.

01

Combination Pliers Chrome Vanadium

DIN ISO 5746 IEC 60900 DIN EN 60900



01 06 190

1000 V

- for heaviest duty
- with gripping zones for flat and round material, suitable for versatile use
- with cutting edges for soft, hard and piano wire
- long cutting edges for thicker cables
- cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC
- particularly wear resistant gripping jaws; hardness of the gripping jaws approx. 53 HRC
- Chrome vanadium heavy-duty steel, forged, oil-hardened

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Cutting capacities | | | | g |
|-------------|--------------|---------|--------|---------------|--|--------------------|------|------|-----------------|-----|
| | | | | | | Ø mm | Ø mm | Ø mm | mm ² | |
| 01 06 160 | 040729 | 160 | 1000 V | chrome plated | insulated with multi-component grips, VDE-tested | 2.0 | 1.5 | 10.0 | 16.0 | 220 |
| 01 06 190 | 040415 | 190 | | | | 2.5 | 2.0 | 13.0 | 25.0 | 320 |

02

High Leverage Combination Pliers

DIN ISO 5746 IEC 60900 DIN EN 60900



02 06 180

1000 V

- 35 % saving in power due to improved lever action compared with conventional combination pliers
- easier work due to optimised leverage
- with cutting edges (hardness approx. 63 HRC) for soft and hard wire and piano wire
- long cutting edges for thicker cables
- with gripping zones for flat and round material, suitable for versatile use
- High-grade special tool steel, forged, oil-hardened



02 07 225

1000 V

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Cutting capacities | | | | g |
|-------------|--------------|---------|--------|---------------|--|--------------------|------|------|-----------------|-----|
| | | | | | | Ø mm | Ø mm | Ø mm | mm ² | |
| 02 06 180 | 010012 | 180 | 1000 V | chrome plated | insulated with multi-component grips, VDE-tested | 2.5 | 2.0 | 11.5 | 16.0 | 247 |
| 02 06 200 | 010029 | 200 | | | | 2.8 | 2.2 | 13.0 | 25.0 | 343 |
| 02 06 225 | 010036 | 225 | | | | 3.0 | 2.5 | 14.0 | 25.0 | 401 |
| 02 07 200 | 022299 | 200 | 1000 V | chrome plated | with dipped insulation, VDE-tested | 2.8 | 2.2 | 13.0 | 25.0 | 380 |
| 02 07 225 | 022305 | 225 | | | | 3.0 | 2.5 | 14.0 | 25.0 | 486 |

03

Combination Pliers

DIN ISO 5746 IEC 60900 DIN EN 60900



03 06 180

1000 V



03 07 200

1000 V

- with gripping zones for flat and round material, suitable for versatile use
- with cutting edges for soft and hard wire
- long cutting edges for thicker cables
- cutting edges additionally induction hardened, cutting edge hardness approx. 60 HRC
- Special tool steel, forged, oil-hardened

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Cutting capacities | | | | g |
|-------------|--------------|---------|--------|---------------|--|--------------------|------|------|------|-----|
| | | | | | | Ø mm | Ø mm | Ø mm | mm² | |
| 03 06 160 | 021902 | 160 | | chrome plated | insulated with multi-component grips, VDE-tested | 3.1 | 2.0 | 10.0 | 16.0 | 228 |
| 03 06 180 | 021926 | 180 | 1000 V | | | 3.4 | 2.2 | 12.0 | 16.0 | 264 |
| 03 06 200 | 033776 | 200 | | | | 3.8 | 2.5 | 13.0 | 16.0 | 326 |
| 03 07 160 | 015307 | 160 | | chrome plated | with dipped insulation, VDE-tested | 3.1 | 2.0 | 10.0 | 16.0 | 254 |
| 03 07 180 | 015314 | 180 | | | | 3.4 | 2.2 | 12.0 | 16.0 | 285 |
| 03 07 200 | 015321 | 200 | 1000 V | | | 3.8 | 2.5 | 13.0 | 16.0 | 339 |
| 03 07 250 | 015345 | 250 | | | | 3.8 | 2.5 | 15.0 | 25.0 | 597 |

11

Insulation Strippers

IEC 60900 DIN EN 60900



11 06 160

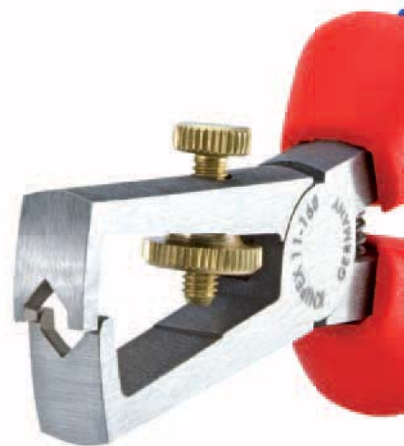
1000 V



11 07 160

1000 V

- for single, multiple and fine stranded conductors with plastic or rubber insulation max. 5.0 mm dia. or resp. 10.0 mm² cable cross section
- easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut
- Special tool steel, forged, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Stripping capacities Ø mm | Stripping capacities mm² | AWG | g |
|-------------|--------------|---------|--------|---------------|--|------------------------------|-----------------------------|-----|-----|
| | | | | | | | | | |
| 11 06 160 | 021933 | 160 | 1000 V | chrome plated | insulated with multi-component grips, VDE-tested | 5.0 | 10.0 | 7 | 166 |
| 11 07 160 | 015499 | 160 | 1000 V | chrome plated | with dipped insulation, VDE-tested | 5.0 | 10.0 | 7 | 180 |
| 11 17 160 | 015505 | 160 | 1000 V | chrome plated | with dipped insulation, VDE-tested | 5.0 | 10.0 | 7 | 181 |

14 Diagonal Insulation Stripper

IEC 60900 DIN EN 60900



14 26 160
1000 V

- the essential pliers for electrical installation work
- precision stripping holes for single (solid) conductors of 1.5 and 2.5 mm²
- induction hardened precision blades for soft wire up to 4.0 mm dia., cutting edge hardness approx. 60 HRC
- Vanadium electric steel; forged, oil-hardened

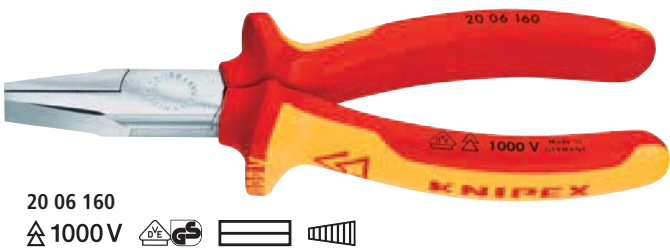


Multi-functional: cutting and stripping

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Stripping capacities mm ² | AWG | Cutting capacities | | g |
|-------------|--------------|------|--------|---------------|--|--------------------------------------|---------|--------------------|------|-----|
| | | | | | | | | Ø mm | Ø mm | |
| 14 26 160 | 040279 | 160 | 1000 V | chrome plated | insulated with multi-component grips, VDE-tested | 1.5 + 2.5 | 15 + 13 | 2.5 | 1.5 | 216 |

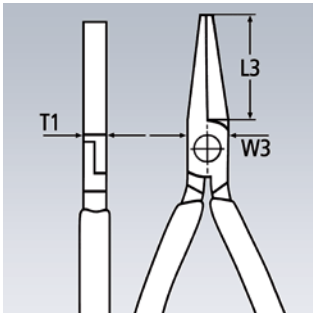
20 Flat Nose Pliers

DIN ISO 5745 IEC 60900 DIN EN 60900



20 06 160
1000 V

- short, flat jaws
- serrated gripping surfaces
- Chrome vanadium electric steel, forged, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Dimensions | | | g |
|-------------|--------------|------|--------|---------------|--|------------|-------|-------|-----|
| | | | | | | L3 mm | W3 mm | T1 mm | |
| 20 06 160 | 033783 | 160 | 1000 V | chrome plated | insulated with multi-component grips, VDE-tested | 30.0 | 17.0 | 9.5 | 176 |

22

Round Nose Pliers

DIN ISO 5745 IEC 60900 DIN EN 60900



22 06 160

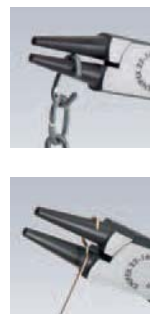
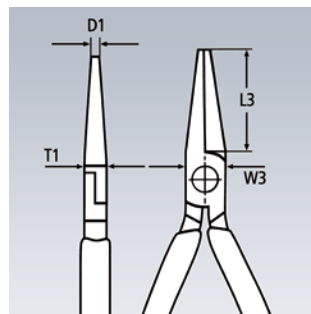
1000 V 1000 V 8



22 07 160

1000 V 1000 V 8

- for bending wire loops
- precision ground, short, round jaws
- smooth tips
- Chrome vanadium electric steel, forged, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Dimensions | | | | g |
|-------------|--------------|------|-----------------|---------------|--|------------|-------|-------|-------|-----|
| | | | | | | L3 mm | W3 mm | D1 mm | T1 mm | |
| 22 06 160 | 033790 | 160 | 1000 V 1000 V 8 | chrome plated | insulated with multi-component grips, VDE-tested | 30.0 | 18.0 | 3.0 | 9.5 | 175 |
| 22 07 160 | 015901 | 160 | 1000 V 1000 V 8 | chrome plated | with dipped insulation, VDE-tested | 30.0 | 18.0 | 3.0 | 9.5 | 196 |

25

Snipe Nose Side Cutting Pliers

(Radio Pliers)

DIN ISO 5745 IEC 60900 DIN EN 60900



25 06 160

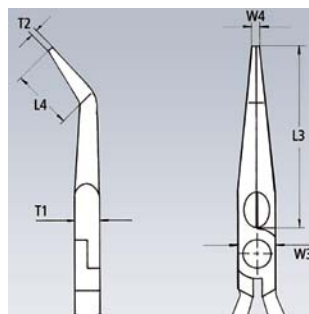
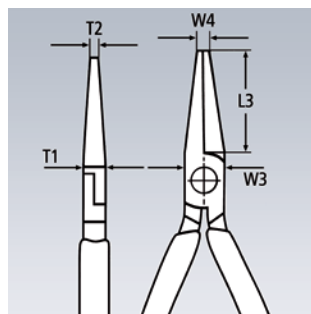
1000 V 1000 V 8



25 26 160

1000 V 1000 V 40° 8

- suitable for finer gripping and cutting work
- pointed, half-round jaws
- serrated gripping surfaces
- with cutting edges for medium hard and hard wire
- cutting edges additionally induction hardened, cutting edge hardness approx. 61 HRC
- Vanadium electric steel; forged, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Cutting capacities | | Dimensions | | | | | | g |
|-------------|--------------|------|---------------------|---------------|--|--------------------|------|------------|-------|-------|-------|-------|-------|-----|
| | | | | | | Ø mm | Ø mm | L3 mm | L4 mm | W3 mm | T1 mm | W4 mm | T2 mm | |
| 25 06 160 | 033806 | 160 | 1000 V 1000 V 8 | chrome plated | insulated with multi-component grips, VDE-tested | 2.5 | 1.6 | 50.0 | | 16.5 | 9.0 | 3.0 | 2.5 | 146 |
| 25 26 160 | 052111 | 160 | 1000 V 1000 V 40° 8 | chrome plated | insulated with multi-component grips, VDE-tested | 2.5 | 1.6 | 50.0 | 23.0 | 16.5 | 9.0 | 3.0 | 2.5 | 144 |

26

Snipe Nose Side Cutting Pliers

(Stork Beak Pliers)

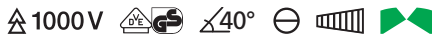
DIN ISO 5745 IEC 60900 DIN EN 60900



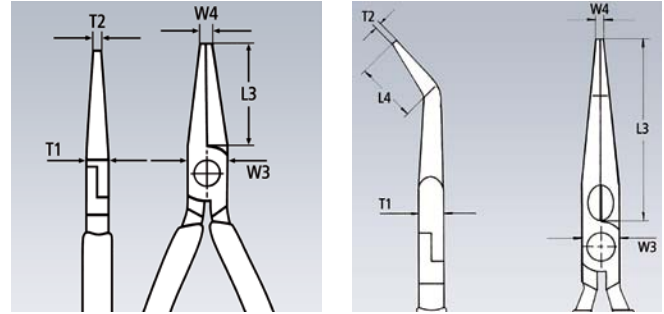
26 16 200



26 27 200



- high loadable, elastic precision points
- half-round, long jaws
- serrated gripping surfaces
- with cutting edges for medium hard wire max. dia. 3.2 mm and hard wire max. dia. 2.2 mm
- cutting edges additionally induction hardened, cutting edge hardness approx. 61 HRC
- Vanadium electric steel; forged, oil-hardened



| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Cutting capacities | | L3 mm | L4 mm | Dimensions | | | | g |
|-------------|--------------|---------|--|---------------|--|--------------------|------|----------|----------|------------|----------|----------|----------|-----|
| | | | | | | Ø mm | Ø mm | | | T1 mm | W3 mm | W4 mm | T2 mm | |
| 26 16 200 | 022831 | 200 | | chrome plated | insulated with multi-component grips, VDE-tested | 3.2 | 2.2 | 73.0 | | 9.5 | 17.5 | 3.0 | 2.5 | 206 |
| 26 17 200 | 016069 | 200 | | chrome plated | with dipped insulation, VDE-tested | 3.2 | 2.2 | 73.0 | | 9.5 | 17.5 | 3.0 | 2.5 | 212 |
| 26 26 200 | 022855 | 200 | | chrome plated | insulated with multi-component grips, VDE-tested | 3.2 | 2.2 | 73.0 | 23.0 | 9.5 | 17.5 | 3.0 | 2.5 | 204 |
| 26 27 200 | 016090 | 200 | | chrome plated | with dipped insulation, VDE-tested | 3.2 | 2.2 | 73.0 | 23.0 | 9.5 | 17.5 | 3.0 | 2.5 | 220 |

30

Long Nose Pliers

DIN ISO 5745 IEC 60900 DIN EN 60900



30 16 160



30 36 160

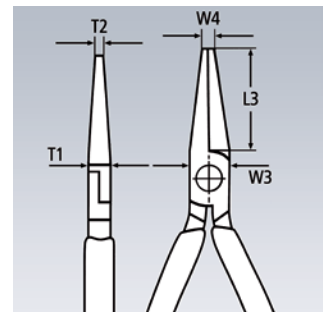


- heavy duty and wear resisting
- different jaw styles
- Chrome vanadium electric steel, forged, oil-hardened

Style 1

long, trapezoidal jaws;
knurled gripping surfaces

Style 3

long, round jaws;
smooth gripping surfaces


| Article No. | EAN 4003773- | ↔ mm | | Style | Pliers | Handles | Dimensions | | | | | g |
|-------------|--------------|---------|--|-------|---------------|--|------------|----------|----------|----------|----------|-----|
| | | | | | | | L3 mm | W3 mm | T1 mm | W4 mm | T2 mm | |
| 30 16 160 | 001904 | 160 | | 1 | chrome plated | insulated with multi-component grips, VDE-tested | 46.5 | 16.5 | 9.5 | 3.0 | 5.0 | 150 |
| 30 36 160 | 002123 | 160 | | 3 | chrome plated | insulated with multi-component grips, VDE-tested | 41.0 | 16.5 | 9.5 | 5.0 | 2.5 | 141 |

70

Diagonal Cutters

DIN ISO 5749 IEC 60900 DIN EN 60900



70 06 160

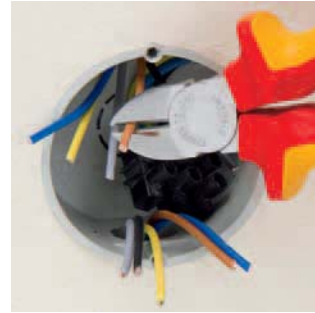
1000 V



70 07 160

1000 V

- the indispensable diagonal cutter for all-round use
- high quality material and precise workmanship for long service life
- precision cutting edges for soft and hard wire
- clean cutting of thin copper wires, also at the cutting-edge tips
- precision cutting edges additionally induction hardened, cutting edge hardness approx. 62 HRC
- narrow head style for use in confined areas
- Vanadium electric steel; forged, oil-hardened



Slim head style and precise cut at blade tips: Advantageous when working in confined areas

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Cutting capacities | | | |
|-------------|--------------|------|--------|---------------|--|--------------------|------|------|-----|
| | | | | | | Ø mm | Ø mm | Ø mm | g |
| 70 06 125 | 018124 | 125 | | | | 3.0 | 2.3 | 1.5 | 121 |
| 70 06 140 | 040293 | 140 | | | | 4.0 | 2.5 | 1.8 | 160 |
| 70 06 160 | 021995 | 160 | 1000 V | chrome plated | insulated with multi-component grips, VDE-tested | 4.0 | 2.8 | 2.0 | 216 |
| 70 06 180 | 033813 | 180 | | | | 4.0 | 3.0 | 2.5 | 254 |
| 70 07 160 | 018155 | 160 | | | | 4.0 | 2.8 | 2.0 | 227 |
| 70 07 180 | 018179 | 180 | 1000 V | chrome plated | with dipped insulation, VDE-tested | 4.0 | 3.0 | 2.5 | 269 |
| 70 26 160 | 018223 | 160 | 1000 V | chrome plated | insulated with multi-component grips, VDE-tested | 4.0 | 2.8 | 1.8 | 216 |

74

High Leverage Diagonal Cutters

DIN ISO 5749 IEC 60900 DIN EN 60900



74 06 200

1000 V



74 07 200

1000 V

20 % less effort required compared to conventional diagonal cutters of the same length.
With integrated forged joint axle.

- with forged-in axle for heaviest duty
- suitable for all types of wire including piano wire
- high cutting performance with minimum effort due to optimum coordination of the cutting edge angle, transmission ratio and ergonomic handle shape
- precision cutting edges additionally induction-hardened, cutting edge hardness approx. 64 HRC
- Chrome vanadium heavy-duty steel, forged, oil-hardened

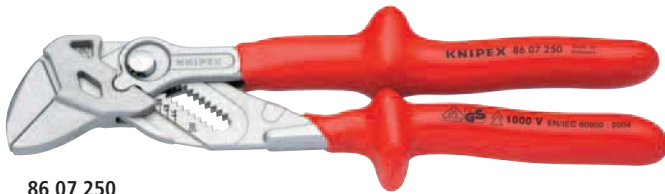
| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Cutting capacities | | | |
|-------------|--------------|------|--------|---------------|--|--------------------|------|------|-----|
| | | | | | | Ø mm | Ø mm | Ø mm | g |
| 74 06 160 | 040705 | 160 | | | | 3.4 | 2.5 | 2.0 | 215 |
| 74 06 180 | 022985 | 180 | | | | 3.8 | 2.7 | 2.2 | 280 |
| 74 06 200 | 033820 | 200 | 1000 V | chrome plated | insulated with multi-component grips, VDE-tested | 4.2 | 3.0 | 2.5 | 308 |
| 74 06 250 | 041955 | 250 | | | | 4.6 | 3.5 | 3.0 | 453 |
| 74 07 200 | 018414 | 200 | | | | 4.2 | 3.0 | 2.5 | 328 |
| 74 07 250 | 018421 | 250 | 1000 V | chrome plated | with dipped insulation, VDE-tested | 4.6 | 3.5 | 3.0 | 510 |

86
07

Pliers Wrench insulated

IEC 60900 DIN EN 60900

PATENTED



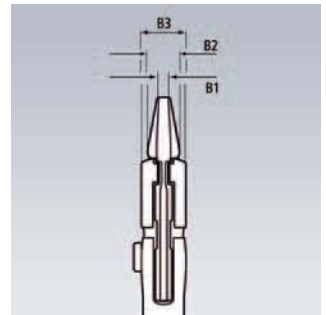
86 07 250

1000 V

- pliers and wrench in a single tool
- also excellent for gripping, holding, pressing and bending workpieces
- zero backlash jaw pressure prevents damage to edges of sensitive and soft nuts (Cu)
- with scale for presetting the opening width apart from the workpiece
- no unintentional shift of the gripping jaws and no slipping of the joint
- parallel jaws allow infinitely variable gripping of all widths to the specified maximum size
- the action of the jaws allows quick tightening and release of bolted connections using the ratchet principle
- lever transmission greater than 10 – 1 for strong gripping power
- Chrome vanadium electric steel, forged, oil-hardened



Scale for setting the opening width, apart from the workpiece



| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Inch | mm | Adjustment positions | Dimensions | | | g |
|-------------|--------------|---------|--------|---------------|------------------------------------|-------|----|----------------------|------------|-------|-------|-----|
| | | | | | | | | | B1 mm | B2 mm | B3 mm | |
| 86 07 250 | 065067 | 250 | 1000 V | nickel plated | with dipped insulation, VDE-tested | 1 3/4 | 46 | 17 | 8.0 | 8 | 14 | 615 |

88

KNIPEX Alligator® Water Pump Pliers

DIN ISO 8976 IEC 60900 DIN EN 60900



88 06 250

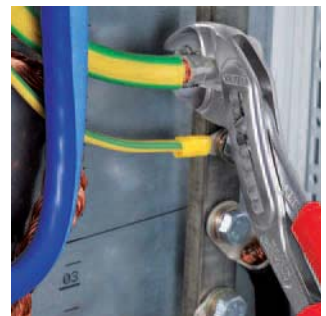
1000 V



88 07 250

1000 V

- box-joint design: high stability because of double guide
- self-locking on pipes and nuts: no slipping on the workpiece and low hand force required
- guard prevents operators' fingers being pinched
- favourable lever action: optimum transmission of force
- gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and stable gripping
- Chrome vanadium electric steel, forged, oil-hardened



Length 250 mm

more output and comfort compared to conventional water pump pliers of the same length: 9-notch adjustment positioning for 30 % more gripping capacity; good access to the workpiece due to slim size in the head and joint area

| Article No. | EAN 4003773- | ↔ mm | | Pliers | Handles | Ø Inch | Ø mm | mm | Adjustment positions | g |
|-------------|--------------|---------|--------|---------------|--|--------|------|----|----------------------|-----|
| | | | | | | | | | | |
| 88 06 250 | 039303 | 250 | 1000 V | chrome plated | insulated with multi-component grips, VDE-tested | 2 | 50 | 46 | 9 | 374 |
| 88 07 250 | 019343 | 250 | 1000 V | chrome plated | with dipped insulation, VDE-tested | 2 | 50 | 46 | 9 | 420 |
| 88 07 300 | 022350 | 300 | 1000 V | chrome plated | with dipped insulation, VDE-tested | 2 3/4 | 70 | 60 | 9 | 661 |

87
26

KNIPEX Cobra® VDE

Hightech Water Pump Pliers, insulated

DIN ISO 8976 IEC 60900 DIN EN 60900

w



87 26 250
1000 V



Quick setting without using a push-button



Just push the pliers handle to adjust!

The adjustment procedure to adapt to the workpiece is easy and reliable with the KNIPEX Cobra® VDE: place the upper gripping jaw of the opened pliers on the workpiece, push pliers handle to close, done!

- adjustment by shifting one jaw directly on to the workpiece: fast, reliable and comfortable handling
- opening at the touch of a button off the workpiece
- fine adjustment to fit very different workpiece sizes with a comfortable handle position
- good access to the workpiece due to slim size in the head and joint area
- self-locking on pipes and nuts: no slipping on the workpiece and low hand force required
- gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and reliable gripping
- box-joint design: high stability because of double guide
- guard prevents operators' fingers being pinched
- Chrome vanadium electric steel, forged, oil-hardened

1000 V

| Article No. | EAN | ↔ mm | | Pliers | Handles | Ø Inch | Ø mm | mm | Adjustment positions | g |
|-------------|--------|---------|--------|---------------|--|--------|------|----|----------------------|-----|
| 87 26 250 | 071495 | 250 | 1000 V | chrome plated | insulated with multi-component grips, VDE-tested | 2 | 50 | 46 | 24 | 340 |



92

Precision Tweezers

IEC 60900 DIN EN 60900



92 27 61

1000 V



92 27 62

1000 V



92 37 64

1000 V



92 67 63

1000 V

- tested according IEC 60900 : 2004
- with dipped insulation
- nickel plated
- Spring steel, high-strength

92 27 61

for ultra fine mounting work; extra fine tips; straight pattern; gripping surfaces matt finished for optimum grip

92 27 62

straight pattern; gripping surfaces with fine transverse serration

92 37 64

angled tips; gripping surfaces with fine transverse serration

92 67 63

straight pattern; serrated gripping surfaces

| Article No. | EAN 4003773- | ↔ mm | | Finish | g |
|-------------|--------------|------|--------|------------------------|----|
| 92 27 61 | 054757 | 130 | 1000 V | with dipped insulation | 32 |
| 92 27 62 | 054764 | 150 | 1000 V | with dipped insulation | 35 |
| 92 37 64 | 054856 | 150 | 1000 V | with dipped insulation | 34 |
| 92 67 63 | 054931 | 145 | 1000 V | with dipped insulation | 43 |

95

Cable Shears

IEC 60900 DIN EN 60900



95 06 230

1000 V

- for cutting copper and aluminium cables
- not suitable for steel wire and hard drawn copper conductors
- precision ground, hardened blades
- no crushing, slight deformation of the cable only
- guard prevents operators' fingers being pinched
- adjustable bolted joint
- Shears body: surgical steel, stainless, vacuum-hardened
- Handles: plastic, impact-proof

95 06 230

for copper single conductors up to 16 mm², multiple stranded wires up to 50 mm², fine stranded up to 70 mm² and aluminium conductors multiple stranded wires up to 70 mm²; easy cutting with one-hand operation due to high transmission ratio; stainless – special grade – steel, oil-hardened and tempered

| Article No. | EAN 4003773- | ↔ mm | | Head | Handles | Cutting capacities | AWG | g |
|-------------|--------------|------|--------|----------|-------------------------------|--------------------|-----------------|---------|
| | | | | | | Ø mm | mm ² | |
| 95 06 230 | 006305 | 230 | 1000 V | polished | plastic insulated, VDE-tested | 16 | 50 | 1/0 274 |

95
1

Cable Shears

IEC 60900 DIN EN 60900



95 16 165

1000 V



95 26 165

1000 V

- for cutting copper and aluminium single conductors as well as multiple stranded cables
- not suitable for steel wire and hard drawn copper conductors
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- easy cutting with one-hand operation
- guard prevents operators' fingers being pinched
- adjustable bolted joint, self-retaining screw
- High-grade special tool steel, forged, oil-hardened

Style 2

internal opening spring, protected and captive



Cut performed with a Diagonal Cutter: high effort required, inaccurate cut, considerable deforming and crushing of the cable



Cut effected with a Cable Shear: easy, clean cut without any deformation of the cable



| Article No. | EAN 4003773- | ↔ mm | | Tool | Handles | Cutting capacities | | AWG | g |
|-------------|-----------------|---------|--------|---------------|--|--------------------|-----------------|-----|-----|
| | | | | | | Ø mm | mm ² | | |
| 95 16 165 | 039648 | 165 | 1000 V | chrome plated | insulated with multi-component grips, VDE-tested | 15 | 50 | 1/0 | 262 |
| 95 26 165 | 069980 | 165 | 1000 V | chrome plated | insulated with multi-component grips, VDE-tested | 15 | 50 | 1/0 | 275 |

95
1

Cable Shears with twin cutting edge

IEC 60900 DIN EN 60900

PATENTED



95 16 200

⚠ 1000 V    



95 17 200

⚠ 1000 V    











- for cutting copper and aluminium cables
- not suitable for steel wire and hard drawn copper conductors
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- easy cutting with one-hand operation
- initial and final cut (upper and lower blade) allows cables of up to 20 mm dia. to be cut
- low hand force required due to favourable lever ratio and new blade geometry
- guard prevents operators' fingers being pinched
- adjustable bolted joint, self-retaining screw
- High-grade special tool steel, forged, oil-hardened



Initial cut: using the front cutting edge to cut the insulating sheath on larger cable diameters leaves an ergonomic handle opening width.



Final cut: after cutting the sheath in the front profile the cut is finished through the metal part of the cable in the rear profile. Initial cut in the front profile, final cut in the rear profile - to keep it as easy as possible.

| Article No. | EAN 4003773- | ↔ mm | | Ttool | Handles | Cutting capacities | | AWG | ⚖ g |
|-------------|-----------------|---------|--|---------------|--|--|---|-----|--------|
| | | | | | |  Ø mm |  mm² | | |
| 95 16 200 | 026761 | 200 | ⚠ 1000 V     | chrome plated | insulated with multi-component grips, VDE-tested | 20 | 70 | 2/0 | 340 |
| 95 17 200 | 026952 | 200 | ⚠ 1000 V     | chrome plated | with dipped insulation, VDE-tested | 20 | 70 | 2/0 | 360 |

95
1

Cable Shears

IEC 60900 DIN EN 60900



95 17 500

1000 V

- for cutting copper and aluminium single conductors as well as multiple stranded cables
- not suitable for steel wire and wire ropes
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- less effort required due to favourable lever ratio and optimised cutting-edge geometry
- short design, length only 500 mm
- low weight
- guard prevents operators' fingers being pinched
- adjustable bolted joint
- Cutter head: Vanadium electric steel, forged, oil-hardened
- Handles: aluminium tube, high-strength



Large cutting capacity:
max. 27 mm dia. / 150 mm²

| Article No. | EAN 4003773- | ↔ mm | | Head | Handles | Cutting capacities | | AWG | g |
|-------------|-----------------|---------|--------|----------|------------------------------------|--------------------|-----------------|-----|------|
| | | | | | | Ø mm | mm ² | | |
| 95 17 500 | 026785 | 500 | 1000 V | polished | with dipped insulation, VDE-tested | 27 | 150 | 5/0 | 1477 |

95
2

Cable Shears

IEC 60900 DIN EN 60900



95 27 600

1000 V

- for cutting copper and aluminium single conductors as well as multiple stranded cables
- not suitable for steel wire and wire ropes
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- favourable transmission ratio due to double lever
- favourable lever ratio due to toggle lever
- guard prevents operators' fingers being pinched
- adjustable bolted joint
- bolted cutter head, replaceable
- Blade head: high-grade chrome vanadium electric steel, forged, oil-hardened
- Handles: steel tube

| Article No. | EAN 4003773- | ↔ mm | | Head | Handles | Cutting capacities | | AWG | g |
|-------------|-----------------|---------|--------|----------|------------------------------------|--------------------|-----------------|-----|------|
| | | | | | | Ø mm | mm ² | | |
| 95 27 600 | 021797 | 600 | 1000 V | polished | with dipped insulation, VDE-tested | 27 | 150 | 5/0 | 2301 |

95 29 600 021803 Spare cutter head for 95 21 600 / 95 27 600

95
3

Cable Cutters ratchet action

IEC 60900 DIN EN 60900

(PATENTED)



95 36 280

1000V

- for cutting copper and aluminium single conductors as well as multiple stranded cables
- not suitable for steel wire and wire ropes
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- one-hand operation using ratchet principle
- little hand force required due to very high transmission ratio
- two-stage ratchet drive for easy cutting
- simple handling as a result of low weight and compact design – can be used even in confined areas
- guard prevents operators' fingers being pinched
- High-grade special tool steel, forged, oil-hardened

95 36 280

suitable for aluminium sector cable up to 4 x 150 mm²


Ratchet principle and two-stage ratchet drive for easier cutting

| Article No. | EAN 4003773- | ↔ mm | | Tool | Handles | Cutting capacities | | MCM | g |
|-------------|--------------|---|-------|-----------------|--|--------------------|-----------------|-----|-----|
| | | | | | | Ø mm | mm ² | | |
| 95 36 250 | 026884 | 250 | 1000V | black lacquered | insulated with multi-component grips, VDE-tested | 32 | 240 | 500 | 652 |
| 95 36 280 | 026891 | 280 | 1000V | black lacquered | insulated with multi-component grips, VDE-tested | 52 | 380 | 750 | 835 |
| 95 39 250 | 022244 | Movable spare blade for 95 31 250 / 95 36 250 | | | | | | | |
| 95 39 280 | 025283 | Movable spare blade for 95 31 280 / 95 36 280 | | | | | | | |

95
7

Wire Rope and ACSR-Cable Cutter

IEC 60900 DIN EN 60900



95 77 600

1000V

- for wire ropes and steel rods, copper and aluminium cables
- suitable for cutting overhead line cables with strain relief wire (ACSR cables)
- angular cutting blades allow cutting of single rope wire
- optimum transmission ratio for high cutting performance
- bolted cutter head, replaceable
- high-strength aluminium handles
- low weight
- Cutter head: high-grade special tool steel, oil-hardened
- Handles: aluminium, high-strength



| Article No. | EAN 4003773- | ↔ mm | | Head | Handles | Cutting capacities | | | AWG | g |
|-------------|--------------|---|-------|----------|------------------------|--------------------|------|------|-----|------|
| | | | | | | mm ² | Ø mm | Ø mm | | |
| 95 77 600 | 025313 | 600 | 1000V | polished | with dipped insulation | 150 | 14.0 | 9.0 | 5/0 | 2359 |
| 95 79 600 | 025337 | Spare cutter head for 95 71 600 / 95 77 600 | | | | | | | | |

97
68

Crimping Pliers for end sleeves (ferrules)

IEC 60900 DIN EN 60900







97 68 145 A

 1000 V



- for crimping end sleeves (ferrules) according DIN 46228 parts 1 + 4 in an area of application from 0.25 up to 2.5 mm²
- crimping in marked trapezoidal dies for reliable connections between the sleeve and the conductor
- Vanadium electric steel; forged, oil-hardened

| Article No. | EAN 4003773- | ↔ mm | | | | Head | Handles | Capacity mm² | AWG | Number of crimping positions | ⚖ g |
|-------------|-----------------|---------|--|---|---|----------|---|-----------------|---------|------------------------------------|--------|
| 97 68 145 A | 071754 | 145 |  1000 V  |  |  | polished | insulated with multi-component grips, VDE-tested | 0.25 - 2.5 | 23 - 13 | 6 | 175 |

98
5

Cable Knives

IEC 60900 DIN EN 60900



98 52
1000 V



98 54
1000 V

- ergonomically improved handle shape with comfortable slip guard
- particularly confident grip thanks to slip-proof soft components
- thumb recess and "finger hook" at the end of the handle ensure a good transmission of force when the blade is pulled
- solid, fixed straight blade
- transparent protective cap
- Blade: special tool steel, oil-hardened

98 54
back of the blade plastic coated to avoid short circuits

| Article No. | EAN 4003773- | ↔ mm | | Handle | Blade length mm | g |
|-------------|--------------|------|--------|---|-----------------|----|
| 98 52 | 035565 | 180 | 1000 V | insulating multi-component handle, VDE-tested | 50 | 67 |
| 98 54 | 026563 | 180 | 1000 V | insulating multi-component handle, VDE-tested | 50 | 68 |

98
5

Dismantling Knives

IEC 60900 DIN EN 60900



98 53 03
1000 V



98 53 13
1000 V



98 55
1000 V

- ergonomically improved handle shape with comfortable slip guard
- particularly confident grip thanks to slip-proof soft components
- thumb recess and "finger hook" at the end of the handle ensure a good transmission of force when the blade is pulled
- transparent protective cap

98 53 03
solid, fixed hook blade; suitable for round cables;
Blade: special tool steel, oil-hardened

98 53 13
narrow, fixed hook blade, sickle shaped; suitable for sector cables;
Blade: special tool steel, oil-hardened

98 55
solid, fixed hook blade, sickle shaped; with guide shoe at the blade point;
no damage of the conductor insulation;
Blade: surgical steel, stainless, vacuum-hardened

| Article No. | EAN 4003773- | ↔ mm | | Handle | Blade length mm | Radius mm | g |
|-------------|--------------|------|--------|---|-----------------|-----------|----|
| 98 53 03 | 026549 | 155 | 1000 V | insulating multi-component handle, VDE-tested | 28 | 7 | 64 |
| 98 53 13 | 026556 | 180 | 1000 V | insulating multi-component handle, VDE-tested | 50 | 40 | 64 |
| 98 55 | 022558 | 155 | 1000 V | insulating multi-component handle, VDE-tested | 38 | 23.5 | 68 |

98
5

Cable Knife with replaceable blade

IEC 60900 DIN EN 60900



98 56

1000 V

- straight blade with special sharpening; replaceable
- with hinged blade guard, integrated in the handle, captive
- back of the blade plastic coated to avoid short circuits
- ergonomically shaped insulating handle
- Blade: surgical steel, stainless, vacuum hardened

| Article No. | EAN 4003773- | ↔ mm | | Blade length mm | g |
|-------------|--------------|-----------------------|--------|-----------------|----|
| 98 56 | 026570 | 185 | 1000 V | 50 | 64 |
| 98 56 09 | 030829 | Spare blade for 98 56 | | | |

98
60

Voltage tester with load application

DUSPOL® compact

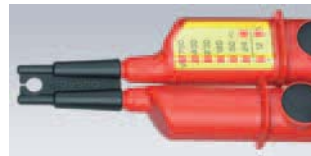
DIN VDE 0682-401 IEC 61243-3 EN 61243-3



98 60 04

1000 V

- overvoltage category: CAT IV 500 V, III 690 V
- LED display shows direct and alternating current levels 12, 24, 50, 120, 230, 400 and 750 V
- polarity test with direct voltage
- intentional RCCB tripping
- protection class: IP 64 (dust-proof and splash-proof)



| Article No. | EAN 4003773- | ↔ mm | | g |
|-------------|--------------|------|--------|-----|
| 98 60 04 | 051961 | 1400 | 1000 V | 188 |

98
6

Flat Nose Pliers of plastic, insulating

IEC 60900 DIN EN 60900 ASTM F1505



98 62 01

1000 V

- the insulating construction reduces risk of short circuits
- for meter installation and meter blocking
- Plastic material, fibreglass reinforced

| Article No. | EAN 4003773- | ↔ mm | | g |
|-------------|--------------|------|--------|-----|
| 98 62 01 | 073956 | 180 | 1000 V | 130 |

98
6

Snipe Nose Pliers of plastic, insulating

IEC 60900 DIN EN 60900 ASTM F1505



98 62 02

1000 V

- the insulating construction reduces risk of short circuits
- Plastic material, fibreglass reinforced

| Article No. | EAN 4003773- | ↔ mm | | g |
|-------------|--------------|------|--------|-----|
| 98 62 02 | 073963 | 220 | 1000 V | 140 |