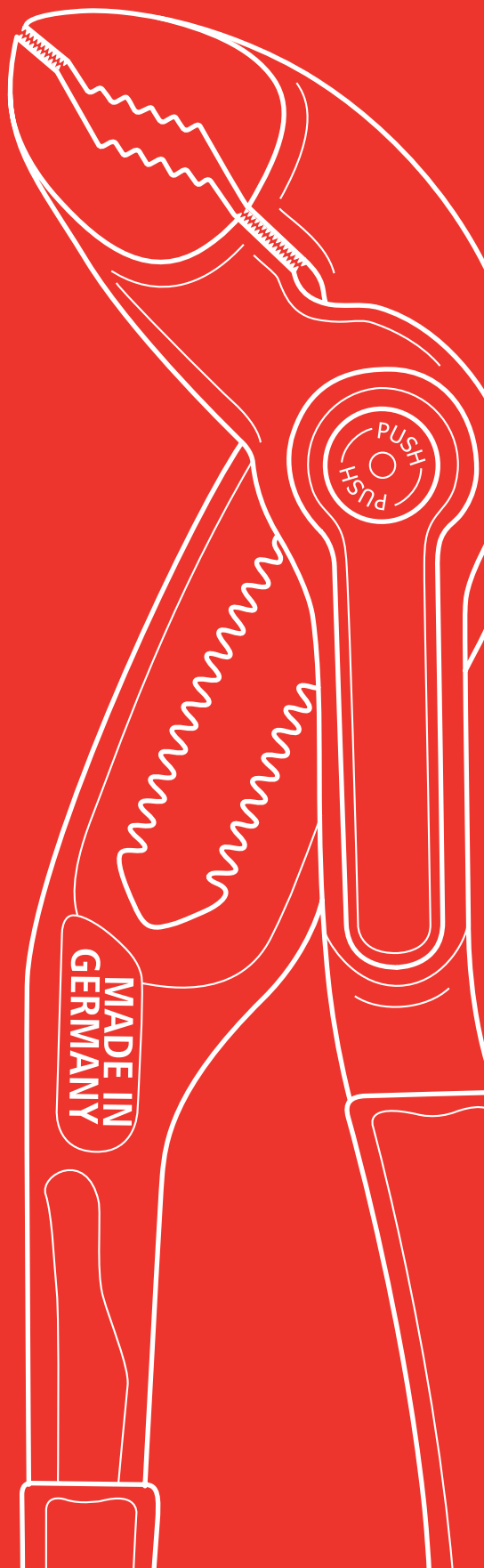
GENERAL CATALOG

KNIPEX®

Pliers

MADE IN GERMANY SINCE 1882



The pliers company

KNIPEX Quality – Made in Germany


KNIPEX
für den Mann vom Fach
1965


KNIPEX
KNIPEX
Zangen


KNIPEX
KNIPEX 01-160 VANADIN-SUPER
1974


20
49,5
30°
20,75
KNIPEX Pliers.
German craftsmanship
from design to production.
Catalogue 1985
KNIPEX


KNIPEX
Tarif des pinces et Tenailles
Septembre 1952


C·GUST·PUTSCH
ZÄNGENFABRIK
WUPPERTAL-CRONENBERG

KNIPEX –
the company behind the pliers.

For over 130 years and four generations, we have been working passionately on being the best manufacturer of pliers for our customers and users – with a clear focus, high demands and a constant flow of new ideas. Throughout the world, our brand enjoys a great deal of trust, and we aim to consistently meet and rebuild this.

Success is important to us, but is not something we look for at any price. We are guided by values, orientate our actions towards sustainability, and face up to our responsibility towards society and the natural environment in which and with which we live. We invest heavily in the efficiency of our location and the qualification of our employees, working today on the success of tomorrow and the day after that – so that we can also continue to be a strong and reliable partner in the future.

Yours, Ralf Putsch

Ralf Putsch, Managing Partner.


1
KNIPEX
CoBolt® XL


2
KNIPEX Cobra
Cobra®


3
CRIMP
12-20
14
12
Electrical Installation Pliers


4
KNIPEX
X-Cut®


5
KNIPEX
Pliers Wrench


6
KNIPEX
TwinForce®


7
KNIPEX
Bolt End Cutting Nippers


8
KNIPEX
Spring Hose Clamp Pliers

KNIPEX pliers are different: ideas for improved use and performance.

Ever better pliers – that is our guiding principle to which we devote all of our expertise and creativity. We are not satisfied with standard solutions, but rather continuously develop new and improved models that are better to work with and easier to use.

Working this way means that sometimes we find unconventional solutions to situations, which then go on to set new benchmarks in the industry: novel methods of power transmission, easier and faster handling, combining various functions in a single tool and imaginative problem solvers for special applications. These new benchmarks save our users energy and time, giving them better work results with less effort.

In addition to major innovations, we work continuously on reworking our current product models to improve their function, ergonomics and service life.

1 Compact force: CoBolt® XL – two-hand operation for maximum cutting force.

2 Easy operation: Cobra® – fast grip, precise adjustment, push-button, self-locking.

3 Multifunctional: Electrical Installation Pliers – six functions in one pair of pliers.

4 Universal cutting force: X-Cut® – the first high leverage diagonal cutter with box joint and precision cutting edges.

5 Speed and versatility: Pliers Wrench – turns, holds, bends and presses without damaging materials.

6 High performance cutting edges: TwinForce® – high strength due to unique transmission.

7 Redefined end cutting nippers: Bolt End Cutting Nippers – light, slim, cut directly on the pivot point.

8 Problem-solver: Spring Hose Clamp Pliers – the only pliers for all spring clamps; apply safely from all angles.

Step by step:
from idea to product.

A large number of steps lie between an initial idea and the finished product. We never lose sight of the fact that every new or redevelopment must represent a noticeable improvement for the user. We deploy the most up to date technologies and processes when putting our ideas into practice.

We begin by carefully establishing the requirements and selecting the best concepts. The tool is constructed on a computer and the function is simulated with the help of special software. This is followed by the first models made on a 3D printer and by milling and extensive tests on steel prototypes – working closely with experienced users. The first products manufactured using production processes are subjected to additional extensive tests – under conditions far more stringent than normal load.

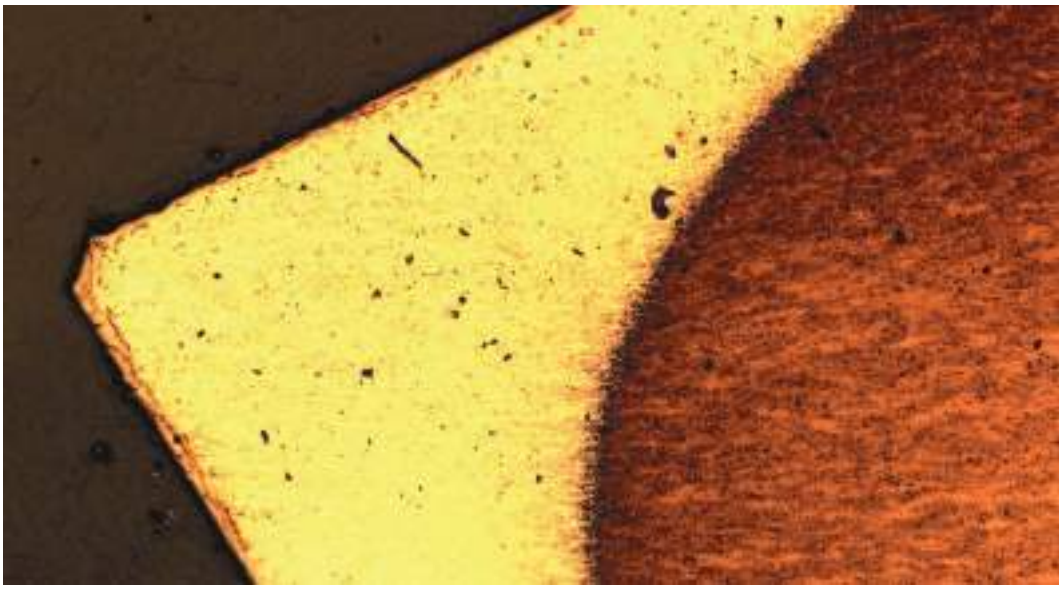
The locking mechanism on the Spring Hose Clamp Pliers permits simple and safe work, even with closed clamps. Modern CAD technology simulates the mechanism on the screen.

Filip Marovic, project manager for KNIPEX Product Development – "It can be seen repeatedly during the development cycles how important even the smallest detail can be. This is the very thing that motivates me to find creative new solutions. During the process we also take new technical possibilities in processing technology and materials into consideration."

Core qualities:
steel – and what we make from it.

You can expect a great deal more from a pair of KNIPEX pliers. This starts with the material. The many models of pliers in our range are designed for different requirements and loads. We use steel alloys that have been specially selected for the application and rolled according to our high specifications. Long lasting cutting capability when working with very hard wires, strength when working with high torque loads, and good resistance to corrosion are examples of these targets.

The respective materials are then given their specific molecular structure in a number of coordinated heat treatment steps to produce the optimal relationship between hardness and toughness. These processes allow us to achieve the high degree of reliability, durability, and service life that are the very definition of KNIPEX pliers.



Macro image of a cutter after induction hardening. The specially hardened cutting area (light) is in sharp contrast to the softer structure of the body of the pliers (dark).


KNIPEX

Alligator® Water Pump Pliers being forged by a hydraulic driven drop-forging hammer.

This is how our pliers are given their shape: hot and under high pressure.

Forging as a forming process is an old cultural technique and continues to hold fascination today. With an impact of up to five and a half tons, the yellow glowing piece of steel is pounded in the upper and lower die at a temperature of 2,282°F. This gives it its basic shape and simultaneously a well-compacted structure.

The production of the forging die in our tool making requires a great deal of experience and high precision, as this raw component will be crucial to the subsequent quality of the pliers. The contours of the forged component are milled at processing centers in the hardened and high strength die block.

Forging die for the high leverage diagonal cutters with forged-in axle.

The technology behind the pliers: machines made by KNIPEX.

Tools can only be as good as the production technology used to manufacture them. In other words, there cannot be superior products without advances in production processes.

Due to our specialization, we can focus on the technologies needed to produce high quality pliers efficiently. We have more than 400 machines built with the specialized knowledge of generations. We build many of the machines ourselves or adapt machines precisely to our high standards using components we have manufactured. We even program the software for the control and operation of the machinery ourselves.

From the product idea to the dispatch of the finished pliers to our customers: everything is done under one roof. This way we can directly influence all steps of value creation ourselves in terms of quality and efficiency, and make continuous improvements. Short distances and direct contact simplify the coordination of processes and communication between employees.

We ensure our high standards by developing our own processes and machinery.

Efficiently coordinated processes and machinery.

Over 45,000 pairs of different models of pliers leave our factory every day.

Only after several test cuts, does a pair of KNIPEX cutting pliers leave our factory.

We take it very literally: 100% reliability.

The precision of pliers is essential for their function: without accuracy there can be no reliable cutting, gripping, bending and zero backlash. The tight tolerances, which we make sure are complied with through the use of modern production technology, enable us to meet our stringent quality specifications.

We ensure compliance through strict measurements and diverse inspections – after the various production steps and at the end of the entire process. To do this we use the most up-to-date measurement technology and endurance tests – as well as the practical component test by hand.

Shape and roughness of the diagonal cutter's cutting edge are precisely measured with an optical 3D measuring system.

More than excellent pliers: what else you can expect from us.

Quality does not stop with the product. Trust, reliability and a collaborative approach define our business relationships – with consistent customer focus, good service and competent field staff. We provide advice and training, and supply you with extensive digital product data adapted to your specific requirements. Added to this are diverse possibilities for sales support.

You will not find the breadth and depth of our range with any other manufacturer worldwide – that's how we ensure that your customers can always find the tool they are looking for.

We present the breadth and depth of our range at in-house exhibitions and open house days.


KNIPEX
KNIPEX
KNIPEX
1000 V

At home in the world: locations in more than 100 countries for you.

KNIPEX is the global pliers brand. We are present in all continents, with a dense network of customers, representatives, and branches. In order to be closer to our retailers and be able to give them even better support, we are further extending our international activities all the time.

There is no substitute for direct contact, which is why we are there for you personally at more than 100 trade shows each year. With the help of the most varied media – classic and digital – we provide comprehensive information about our range and application opportunities in over 30 languages. We reach users and fans throughout the world via social media and hundreds of KNIPEX online videos.

We make up-to-date information available digitally in several languages.

The key factor: our employees.

The most important basis of our success is our employees. Their knowledge and skills, their dedication and their ideas are crucial to our efficiency and thus to our future.

As a company, we are a social community. We want to shape our culture in such a way that allows our employees to participate and create identity through their work but also as individuals. We create good conditions for our employees to develop their potential, to obtain further qualifications and to stay healthy. It is also important to us that our employees are able to successfully balance family and career.

We invest a significant amount of both expense and care in the training of young people, but also impart a wide spectrum of professional and personal skills to other employees.

Our junior staff obtain their qualifications in our own modern training workshop.


KWIPEX
KW 45

Acting responsibly – sustainable management.

As a company, we believe we share responsibility for our natural environment and the well-being of society. We interact with both in various ways. We consume resources, but take care to use them as carefully as possible, and want to make a contribution to ensuring that they are available to future generations in the same – or wherever possible – a better form.

Our ecological objectives include a continuous reduction in our energy consumption, reduction in the volumes of waste and caring for the biodiversity at our site. In addition, we participate in major climate protection projects.

Companies should also be good citizens. We support numerous institutions and organizations in the areas of education and culture. We maintain a close exchange with schools and universities, and strengthen civic engagement in our region in diverse ways.

We support the Bergische music school in the "Singpause" project which, with the help of specially trained teachers, communicates the foundations of music and pleasure by singing together in schools.


KNIPEX

High Leverage Combination Pliers
DIN ISO 5746

02

35% less effort required than with conventional combination pliers
Cutting edge hardness (approx. 63 HRC) for heavy-duty cutting

> easier work due to high leverage design
> easier cutting, powerful gripping, bending and pulling
> long cutting edges for thicker cables
> gripping zones for flat and round material for a variety of uses
> high-grade special tool steel; forged, multi stage oil-hardened

02 02 225 T BKA*
Pliers with integrated tether attachment point for tool drop protection system




02 01 180

02 02 180

02 02 225 T BKA

02 08 200 US
1000 V **ASTM**

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	mm²	lbs
02 01 180		7 1/4 180		black atramentized	polished	plastic coated	3/32 2.5	5/64 2.0	29/64 11.5	16.0	0.45
02 01 200	X	8 200					7/64 2.8	3/32 2.2	1/2 13.0	25.0	0.66
02 01 225	X	9 225					1/8 3.0	3/32 2.5	35/64 14.0	25.0	0.79
02 02 180	X	7 1/4 180		black atramentized	polished	multi-component grips	3/32 2.5	5/64 2.0	29/64 11.5	16.0	0.53
02 02 200	X	8 200					7/64 2.8	3/32 2.2	1/2 13.0	25.0	0.75
02 02 225	X	9 225					1/8 3.0	3/32 2.5	35/64 14.0	25.0	0.90
02 02 225 T BKA	X	9 225		black atramentized	polished	multi-component grips, integrated tether attachment point	1/8 3.0	3/32 2.5	35/64 14.0	25.0	0.95
02 08 200 US	X	8 200	1000 V ASTM	black atramentized	polished	insulated, multi-component grips, ASTM-tested	7/64 2.8	3/32 2.2	1/2 13.0	25.0	0.82
02 08 225 US	X	9 225					1/8 3.0	3/32 2.5	35/64 14.0	25.0	0.95

*Learn more about our tethered tool system on pages 207-211

Combination Pliers
DIN ISO 5746

03

> gripping zones for flat and round material for a variety of uses
> cutting edges for soft and hard wire
> long cutting edges for thicker cables
> cutting edge hardness (approx. 60 HRC)
> special tool steel; forged, multi stage oil-hardened

03 01 180

03 02 180

03 08 200 SBA
1000 V ASTM

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	mm²	lbs
03 01 140		5 1/2 140		black atramentized	polished	plastic coated	7/64 2.8	5/64 1.8	23/64 9.0	10.0	0.25
03 01 160		6 1/4 160					1/8 3.1	5/64 2.0	25/64 10.0	16.0	0.41
03 01 180		7 1/4 180					9/64 3.4	3/32 2.2	15/32 12.0	16.0	0.48
03 01 200	X	8 200					5/32 3.8	3/32 2.5	1/2 13.0	16.0	0.61
03 01 250		10 250					5/32 3.8	3/32 2.5	19/32 15.0	25.0	1.04
03 02 160		6 1/4 160		black atramentized	polished	multi-component grips	1/8 3.1	5/64 2.0	25/64 10.0	16.0	0.49
03 02 180		7 1/4 180					9/64 3.4	3/32 2.2	15/32 12.0	16.0	0.56
03 02 200		8 200					5/32 3.8	3/32 2.5	1/2 13.0	16.0	0.71
03 08 160 SBA	X	6 1/4 160	1000 V ASTM	black atramentized	polished	insulated, multi-component grips, ASTM-tested	1/8 3.1	5/64 2.0	25/64 10.0	16.0	0.55
03 08 200 SBA	X	8 200					5/32 3.8	3/32 2.5	1/2 13.0	16.0	0.76

Needle-Nose Combination Pliers
DIN ISO 5746

08

Small high leverage combination pliers with pointed jaws
For all common installation and repair work

Handy for use when working in confined areas due to slim head design and pointed jaws (anti-twist)

Gripping surfaces with special convex contour on one side for secure gripping of flat parts

Milled groove in the gripping area permits small parts such as nails, pins and bolts to be held and pulled

> easy cutting due to the high leverage joint
> cutting edges for soft, medium hard and hard wire
> long service life and stable tips
> high-grade special tool steel; forged, multi stage oil-hardened

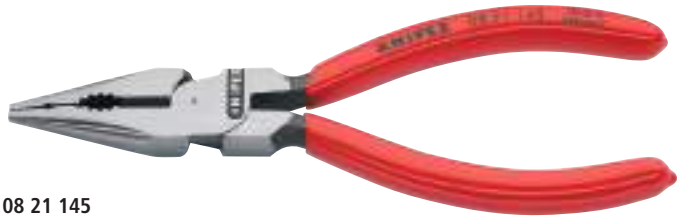
08 22 145 T BKA*
Pliers with integrated tether attachment point for tool drop protection system

Milled groove in the gripping area

Firm grip on flat material due to three-point contact

Easy cutting thanks to the high leverage joint

Anti-twist tips remain stable even under high strain



08 21 145

08 22 145

08 22 145 T BKA

08 28 145 US
1000 V ASTM

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	⊛ Ø Inch Ø mm	⊛ mm²	⚖ lbs
08 21 145	X	5 3/4 145		black atramentized	polished	plastic coated	1/8 3.0	5/64 2.0	5/16 8.0	16.0	0.26
08 22 145	X	5 3/4 145		black atramentized	polished	multi-component grips	1/8 3.0	5/64 2.0	5/16 8.0	16.0	0.32
08 22 145 T BKA	X	5 3/4 145		black atramentized	polished	multi-component grips, integrated tether attachment point	1/8 3.0	5/64 2.0	5/16 8.0	16.0	0.39
08 28 145 US	X	5 3/4 145	1000 V ASTM	black atramentized	polished	insulated, multi-component grips, ASTM-tested	1/8 3.0	5/64 2.0	5/16 8.0	16.0	0.39

*Learn more about our tethered tool system on pages 207-211

Lineman's Pliers

DIN ISO 5746 ASME B107.20

09

High transmission ratio for easy cutting.

High leverage design requires 50% less effort compared to conventional combination pliers due to an optimized transmission ratio.

- heavy-duty
- ergonomically optimized handle shape for firm contact to the hand and fatigue reducing operation
- effective cross-hatched knurled gripping zone in the jaws – for strong gripping and pulling
- serrated gripping zone below the joint for powerful leverage
- cutting edges for soft and hard wire, nails, ACSR and piano wire
- cutting edge hardness (approx. 64 HRC)
- vanadium steel, forged, multi stage oil-hardened

09 11 240 / 09 12 240 / 09 12 240 T BKA*
With fish tape puller in the joint gap; with universal crimping point below the joint

09 02 240 T BKA / 09 12 240 T BKA*
Pliers with integrated tether attachment point for tool drop protection system

Gripping zone below the joint for powerful leverage

09 01 240

09 02 240

09 02 240 T BKA

09 08 240 US
1000 V ASTM

09 11 240

09 12 240 T BKA

*Learn more about our tethered tool system on pages 207-211

09 11/12 240:
Universal crimping area below the joint

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

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

Long cutting edges for cutting flat cables

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	⚖ lbs
09 01 240	X	9 1/2 240		black atramentized	polished	plastic coated	3/16 4.6	1/8 3.0	0.96
09 02 240	X	9 1/2 240		black atramentized	polished	multi-component grips	3/16 4.6	1/8 3.0	1.01
09 02 240 T BKA	X	9 1/2 240		black atramentized	polished	multi-component grips, integrated tether attachment point	3/16 4.6	1/8 3.0	1.08
09 08 240 US	X	9 1/2 240	1000 V ASTM	black atramentized	polished	insulated, multi-component handles, ASTM-tested	3/16 4.6	1/8 3.0	1.02
09 11 240	X	9 1/2 240		black atramentized	polished	plastic coated	3/16 4.6	1/8 3.0	0.91
09 12 240	X	9 1/2 240		black atramentized	polished	multi-component grips	3/16 4.6	1/8 3.0	1.04
09 12 240 T BKA	X	9 1/2 240		black atramentized	polished	multi-component grips, integrated tether attachment point	3/16 4.6	1/8 3.0	1.07

Ear Clamp Pliers 10

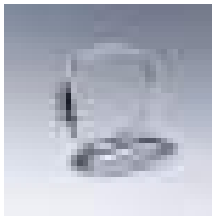
Suitable for universal use, for 1-ear and 2-ear clamps

> for the simple and reliable mounting of 1-ear and 2-ear clamps (Oetiker® system or similar)
> no damage to press points on the ear clamps
> the slim head permits good accessibility in confined areas
> versatile use for clamps on CV boots, cooler and fuel lines, air pressure systems, compressors
> durable and strong
> high-grade special tool steel; forged, oil-hardened

10 99 I220
Suitable for universal use due to the additional side jaw

10 98 I220

10 99 I220



10 98 I220

Front press jaw

Sealing the fluid hose on the connecting piece

Sealing the pneumatic hose on the quick action coupling

Sealing the hose connection on central lubrication

10 99 I220

Using the front press jaw

Sealing the pneumatic hose on the quick action coupling using the side press jaw

Using the side press jaw

Sealing the fluid hose on the connecting piece using the side press jaw

Product Number	Packaging	↔ Inch mm	Pliers	Head	Handles	⚖ lbs
10 98 I220		8 3/4 220	black atramentized	polished	plastic coated	0.78
10 99 I220		8 3/4 220	black atramentized	polished	plastic coated	0.75

Insulation Strippers

- for single, multi and fine-stranded conductors with plastic or rubber insulation max.13/64" (5.0 mm) dia., suitable up to 8 AWG wire
- easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut
- special tool steel; forged, oil-hardened

11 01 160

11 02 160

11 08 160 SBA

1000 V ASTM

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Prismatic blade

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

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Stripping capacities Ø Inch Ø mm	Stripping capacities mm²	AWG	⚖ lbs
11 01 160		6 1/4 160		black atramentized	polished	non-slip plastic coated	13/64 5.0	10.0	up to 8	0.32
11 02 160		6 1/4 160		black atramentized	polished	multi-component grips	13/64 5.0	10.0	up to 8	0.38
11 08 160 SBA	X	6 1/4 160	1000 V ASTM	black atramentized	polished	insulated, multi-component grips, ASTM tested	13/64 5.0	10.0	up to 8	0.40

Electronics Wire Stripping Shears

11
8

- for cutting and stripping solid, multi and fine-stranded conductors with a diameter up to 3/64" (18-32 AWG)
- pointed head of shears above the wire stripping hole for the accurate cutting of fine wire in confined places
- easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut
- opening spring for easy repetitive work
- special tool steel; oil-hardened

11 82 130

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm		Head	Handles	Stripping capacities Ø Inch Ø mm	Stripping capacities AWG mm²	lbs
11 82 130		5 1/4 130		polished	multi-component grips	up to 3/64 0.03-1.19	32-18 0.01-0.75	0.20

Electronics Wire Stripper

11
9

- for single, multi and fine stranded cables having a diameter up to 1/32" (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
- opening spring for easy repetitive work
- the mirror polish and fine film of oil offer effective rust protection – no circuit faults caused by peeling chrome from plated tools
- special tool steel, forged, oil-hardened

11 92 140

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm		Head	Handles	Stripping capacities AWG mm²	lbs
11 92 140		5 1/2 140		mirror polished	multi-component grips	38 - 20 0.1 - 0.8	0.22

Insulation Stripper
with replaceable blades

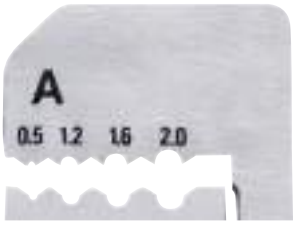
12

- leaves wire undamaged due to precision-ground blade shapes, even multi-stranded conductors are stripped gently
- during stripping, the wire is held firmly by clamping jaws
- with adjustable length stop for consistent stripping length during repetitive work
- a spring leads the stripper back to the starting position
- pliers body: aluminum
- blade: special tool steel; oil-hardened

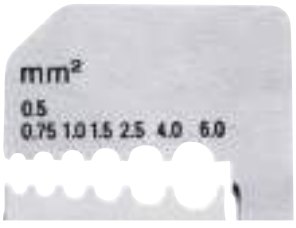
12 11 180

12 21 180

Adjustable length stop for repetitive work



12 11 180: wire cross-sections in inches



12 21 180: wire cross-sections in mm²

Product Number	Packaging	↔ Inch / mm		Pliers	Handles	Stripping capacities mm	Stripping capacities mm²	⚖ lbs
12 11 180		7 1/4 / 180		black lacquered	with plastic grips	0.5 / 1.2 / 1.6 / 2.0	-	0.80
12 21 180		7 1/4 / 180		black lacquered	with plastic grips	-	0.5-0.75 / 1.0 / 1.5 / 2.5 / 4.0 / 6.0	0.81

12 19 180	1 pair of spare blades for 12 11 180
12 29 180	1 pair of spare blades for 12 21 180

Precision Insulation Strippers
with replaceable blades

- form-fit stripping of both standard and difficult-to-remove insulating materials made of PTFE, silicone, Radox®, Kapton® and rubber including multi-layer insulations
- a second pair of blades holds the remaining insulation reliably in place
- replaceable shaped blade adapted precisely to the respective conductor diameter
- includes length stop for consistent stripping length during repetitive work
- pliers body: steel
- blade: special tool steel; oil-hardened

12 12 02
PATENTED

12 12 02 is the only Precision Installation Strippers that has the cable guide

Precise, complete clean cut of the insulation

12 12 12
PATENTED

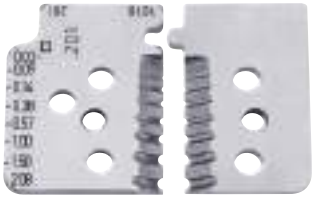
Quality stripping due to precise shape of the blades

12 12 02
The only tool with the cable guide for exact positioning of the cable in the stripping area of the blade

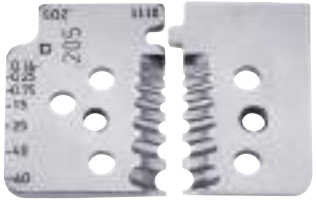
12 12 11
For solar cables; specially adapted to multi-layered and RADOX® insulations; with additional cable support for a better centering in the stripping profiles

12 12 13 / 12 12 14
For cables according to US specifications (AWG)

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



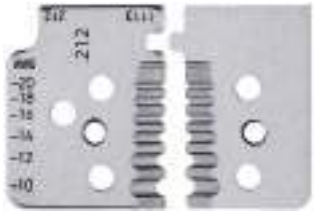
12 12 02



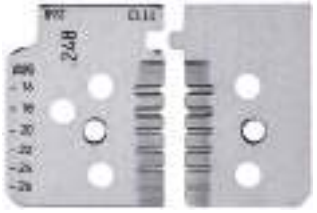
12 12 06

12 12 10

12 12 11



12 12 13 - AWG Version



12 12 14 - AWG Version

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

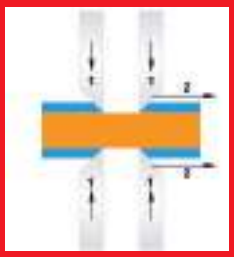
Principle of operation with shaped blades

Proper 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 insulating materials made of PTFE, Radox® and multi-layer insulations.

Precise and Reliable

Two pairs of blades (1) completely cut the insulation.

Then the blade pairs move apart, and the insulation is removed (2). The pliers opens automatically after the stripping procedure.



Product Number	Packaging	↔ Inch mm		Pliers	Handles	Stripping capacities mm²	AWG	⚖ lbs
12 12 02		7 3/4 195		burnished	multi-component grips	0.03-0.09 / 0.14 / 0.38 / 0.57 / 1.0 / 1.5 / 2.08	-	0.99
12 12 06		7 3/4 195				0.14-0.25 / 0.75 / 1.5 / 2.5 / 4.0 / 6.0	-	0.98
12 12 10		7 3/4 195				2.5 / 4.0 / 6.0 / 10.0	-	0.98
12 12 11		7 3/4 195		burnished	multi-component grips	1.5 / 2.5 / 4.0 / 6.0	-	0.99
12 12 13		7 3/4 195		burnished	multi-component grips	-	10 / 12 / 14 / 16 / 18 / 20	0.99
12 12 14		7 3/4 195				-	16 / 18 / 20 / 22 / 24 / 26	0.99

Self-Adjusting Insulation Strippers

12

- for single, multi and fine-stranded wire cables with plastic or rubber insulation; especially useful with THHN coated wire
- adapts automatically to the respective cable diameter preventing damage to the conductor
- cutting depth can be adjusted for different insulation by turning the red wheel
- includes wire cutter for copper and aluminum wires, multi-stranded up to 8 AWG (10 mm²) and single stranded up to 10 AWG (6 mm²)
- smooth operating mechanism
- replaceable blade and plastic clamping jaws
- the body is constructed of lightweight fiberglass-reinforced plastic
- blade: special tool steel; oil-hardened

12 40 200

12 40 200
For thin ribbon cables up to 10 mm width in a single pass

12 40 200: Adjustable length stop

12 40 200: Precise stripping prevents damage to the conductor

Wire cutter for multi-stranded wire cables up to 8 AWG (10 mm²)

Product Number	Packaging	↔ Inch mm		Stripping capacities mm²	AWG	Length stop Inch mm	⚖ lbs
12 40 200	X	8 200		0.03 - 10.0	32 - 8	1/8 - 11/16 3.0 - 18.0	0.45
12 50 200		8 200		2.5 - 16.0	14 - 6	-	0.44

12 49 01	1 pair of spare blades for 12 40 200
12 49 02	1 pair of spare clamping jaws for 12 40 200
12 49 03	Spare length stop for 12 40 200
12 59 01	1 pair of spare blades for 12 50 200
12 59 02	1 pair of spare clamping jaws for 12 50 200

KNIPEX MultiStrip 10
Automatic Insulation Stripper

Stripping without readjustment from 32–8 AWG
Universal blade geometry – tough and robust
Ideal grip design with excellent control
Recessed wire cutter

12 42 195

- automatic adjustment to all single-, multi and fine-stranded conductors with standard PVC insulation. Range of 32 AWG (0.03 mm²) to 8 AWG (10.0 mm²)
- no manual fine adjustment necessary
- no damage to the conductors
- steel clamping jaws with integrated cutting edges hold the cable and prevent slipping
- includes recessed wire cutter for Cu and Al conductors, stranded up to 8 AWG and single wire up to 10 AWG
- particularly smooth running mechanics and very low weight
- replaceable blades block and length stop
- handle with soft-plastic zone for a steady grip
- the body is constructed of lightweight fiberglass-reinforced plastic
- blade: special tool steel; oil-hardened
- **NOT FOR THHN CABLE**

MultiStrip

Wire cutter for multi-stranded wire cables up to 8 AWG (10 mm²)

Steel clamping jaws avoid slipping of the cable

Patented Mechanics

The incision depth of the stripping blade adjusts automatically to the diameter of the wire and to the thickness of all standard insulating materials.

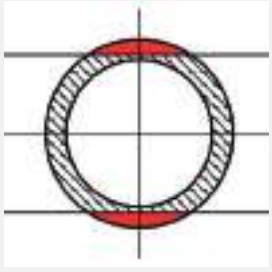
There is no need for any of the manual adjustment still necessary when other conventional pliers with a wide wire-stripping range are used.

Precise stripping from 32–8 AWG without readjustment

Mode of operation of straight cutters

An incision is made in the red area only.

Not suitable for highly-flexible or armored insulation materials or multi-layered insulation such as THHN.



Product Number	Packaging	↔ Inch mm		Stripping capacities mm²	AWG	⚖ lbs
12 42 195	X	7 1/2 190		0.03 - 10.0	32 - 8	0.31

12 49 21	Spare blades block for 12 42 195
12 49 23	Spare length stop for 12 42 195

Automatic Insulation Stripper

12 62

- compact standard tool at a favorable price for common cable diameters and insulating materials
- for single, multi and fine stranded cables of 24 AWG (0.2 mm²) up to 10 AWG (6 mm²) with standard PVC insulation
- adapts automatically to the respective cable diameter preventing damage to the conductor
- comfortable and lightweight for easy operation
- narrow head style for use in confined areas
- with wire cutter for copper and aluminum wires up to 14 AWG
- with adjustable length stop from 1/4" – 11/16" (6.0 – 18.0 mm) for stripping the same lengths during repetitive work
- the body is constructed of lightweight fiberglass-reinforced plastic
- blades: special tool steel; oil-hardened, interchangeable

12 62 180

Precise stripping from 24 AWG to 10 AWG (0.2 up to 6.0 mm²)

Wire cutter up to 14 AWG (2.5 mm²)

Stripping in confined areas

Product Number	Packaging	↔ Inch mm		Stripping capacities mm²	AWG	⚖ lbs
12 62 180	X	7 1/4 180		0.2 - 6.0	24 - 10	0.35

12 69 21	1 pair of spare blades for 12 62 180
12 69 23	Spare length stop for 12 62 180

Automatic Flat Cable Stripping Pliers

12 64

- for PVC-insulated flat cables up to a max. 15/32" (12 mm) width and 18 AWG - 14 AWG (0.75 to 2.5 mm²)
- adapts automatically to the various conductor heights which prevents damage to the conductor
- allows long stripping lengths
- replaceable blades
- smooth operating mechanism
- the body is constructed of lightweight fiberglass-reinforced plastic
- blade: special tool steel; oil-hardened

12 64 180

Product Number	Packaging	↔ Inch mm		Stripping capacities in square inch mm²	⚖ lbs
12 64 180		7 1/4 180		0.75 - 2.5	0.27

12 69 31	Spare blades for 12 64 180

Automatic Stripping Pliers

For multicore cable Ø 4.4 to Ø 7.5 mm
with irregular sheathing cross-section

12 74

For control and sensor cables / actuator cables, also for stripping flexible 3-core feed cables and extension cable

Automatic adjustment to cable diameters between 4.4 and 7.5 mm

No damage to the inner conductor or shield braid

- allows cable to pass through center of pliers for mid-line strip or stripping longer lengths
- suitable for highly flexible PUR and PVC cable sheathing and rubber leads such as H05, etc.
- long stripping lengths possible
- body: plastic, fiberglass-reinforced
- exchangeable blades: special tool steel, oil-hardened

Sectional view of an extension lead

12 74 180 SB

Required stripping length easy to read

Complex cutter design for precise and damage-free stripping of round cables

Product Number	Packaging	↔ mm	Stripping capacities Ø mm	⚖ lbs
12 74 180 SB	X	175	4.4 - 7.5	0.26
12 79 31		1 pair of spare blades for 12 74 180 SB		

Mini Wire Stripper

12 80

12 80 040 SB
For thin copper conductors dia. 36 – 26 AWG (0.12 to 0.4 mm)

12 80 100 SB
For thin copper conductors dia. 28 – 18 AWG (0.3 – 1.0 mm)

- precise stripping due to the tool's gradual adjustment to the conductor's diameter
- includes wire cutter
- adjustable length stop from 5/32" – 19/32" (4.0 – 15.0 mm)
- includes locking device
- housing: plastic, impact-resistant

12 80 100 SB

Product Number	Packaging	↔ Inch mm		Stripping capacities Ø mm	AWG	⚖ lbs
12 80 040 SB	X	4 100		0.12 - 0.4	36 - 26	0.08
12 80 100 SB	X	4 100		0.30 - 1.0	28 - 18	0.08

Electricians' Pliers 13

- the ideal 4-in-1 pliers for cable and wire work
- for gripping and bending wire
- for cutting medium and hard wire
- precision cutting edges induction hardened, cutting edge hardness (approx. 60 HRC)
- with precision stripping holes
- for crimping ferrules (end sleeves)
- vanadium steel; forged, multi-stage oil-hardened

13 02 614 T BKA*
Pliers with integrated tether attachment point for tool drop protection system


Gripping


Cutting


Stripping


Crimping 20-14 AWG (0.5 to 2.5 mm²)


13 01 160


13 01 614


13 02 160


13 02 614 T BKA

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◑ Ø Inch Ø mm	Cutting capacities ◕ Ø Inch Ø mm	Stripping capacities mm²	AWG	⚖ lbs
13 01 160	X	6 1/4 160		black atramentized	polished	non-slip plastic coated	3/32 2.5	1/16 1.6	0.5 - 0.75 / 1.5 / 2.5	-	0.24
13 02 160	X	6 1/4 160				multi-component grips	3/32 2.5	1/16 1.6			0.31
13 01 614	X	6 1/4 160		black atramentized	polished	non-slip plastic coated	3/32 2.5	1/16 1.6	-	10 / 12 / 14	0.25
13 02 614 T BKA	X	6 1/4 160				multi-component grips, integrated tether attachment point	3/32 2.5	1/16 1.6	-		0.32

*Learn more about our tethered tool system on pages 207-211

Dismantling Pliers
DIN ISO 5746

13

Multifunctional – dismantling, stripping and cutting with one pair of pliers

For time-saving dismantling and stripping of all common round and damp-proof installation cables (e.g. NYM cable)

Simplified access especially to deeply mounted flush sockets due to slim head design and optimally angled cable sheath cutter

Strip cables easily and without damage thanks to circular cutting edge with depth limit

- dismantles outer sheath of cable easily and without damage due to the circular cutting edge with depth limit
- precision wire stripping holes for 1.5 and 2.5 mm² conductors
- integrated diagonal cutters for cutting and trimming conductors, wires, small screws and nails
- cutting blades induction hardened to (approx. 61 HRC)
- 30% lighter in weight than comparable pliers
- slim head design allows for easy access into deeply mounted sockets

13 42 165

Circular cutting edge with depth limit: for easy dismantling without damaging the conductor insulation

Wire stripping holes for 1.5 and 2.5 mm² conductors

Cutting cable up to Ø 13 mm

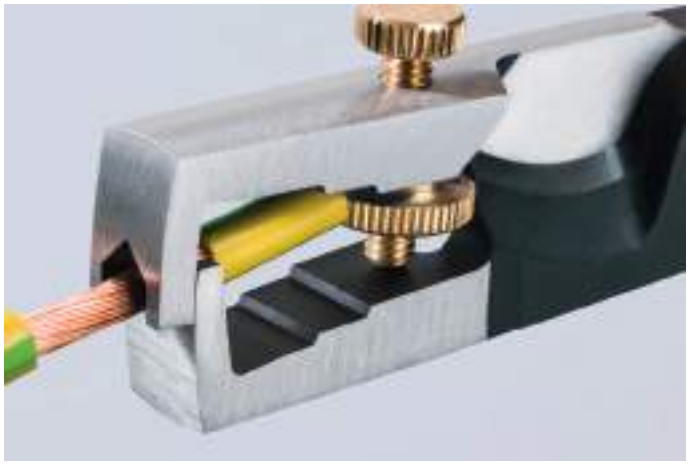
Cutting when shortening single conductors

Product Number	Packaging	Inch mm		Pliers	Head	Handles	Dismantling capacities Ø mm	Stripping capacities Ø mm²	Ø mm	Ø mm	lbs
13 42 165		6 1/2 165		black atramentized	polished	with multi-component grips	8 - 13	1.5 / 2.5	3.2	2.2	0.39

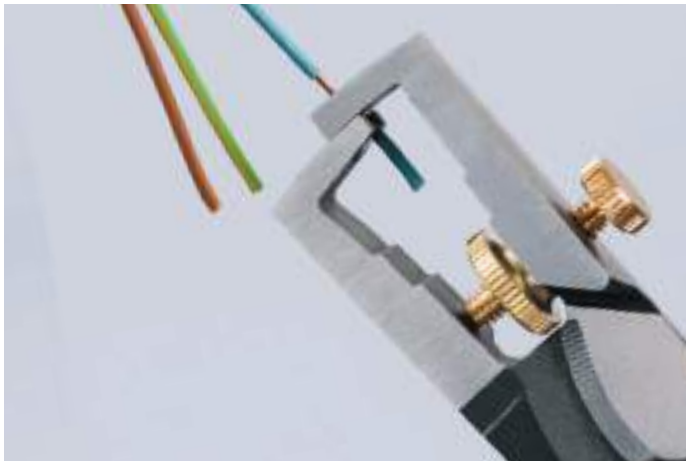
Insulation strippers with Cable Shears – two essential electrical installation tools in one pair of pliers

- integrated cable shears for clean cutting of copper and aluminum cables without crushing
- universal adjustment of the wire stripping blades with knurled screw
- slim design allows for easy access into confined areas
- for stripping single, multiple and fine stranded conductors with plastic and rubber insulation up to a max. Ø 5 mm or 10 mm² conductor cross-section
- Graduated jaw is a visual guide when stripping wire in standard lengths 7/16" (11 mm) and 5/8" (16 mm)

Induction hardened shear blade with precisely ground cutting edges for crushing-free cutting of copper cables up to 9/16" (15 mm Ø) (5 x 2.5 mm²)



Lock nut prevents any unintentional adjustment



Visual length markings (steps) provide support during repeated stripping of wire in standard lengths 7/16" (11 mm) and 5/8" (16 mm)

Product Number	Packaging	↔ Inch mm	Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Stripping capacities AWG	Stripping capacities Ø mm	lbs
13 62 180		7 1/4 180	black atramentized	polished	with multi-component grips	9/16 15	8	5.0	0.44

Installation Pliers 13

- multifunctional pliers for electrical installation with 6 functions; to grip flat and round material, for bending, deburring, cutting cable, stripping and crimping ferrules (end sleeves)
- smooth surfaces near the tips grip single conductors without damaging them; serrated gripping surfaces and pipe grip for gripping flat and round material
- clear-cut outside edge on the jaw for working on flush-mounted junction boxes and deburring feed-through holes
- stripping holes for 12 and 14 AWG (0.75 – 1.5 mm² and 2.5 mm²)
- crimp die for ferrules (end sleeves) 12 – 20 AWG (0.5 – 2.5 mm²)
- cable shears with induction hardened precision cutting edges for copper and aluminum cables up to 19/32" dia. (5 x 2.5 mm² / dia. 5 mm)
- slim dimensions for easy access in confined areas
- bolted joint: precise, zero-backlash operation of pliers
- high-grade special tool steel; forged, multi stage oil-hardened

13 82 8 T BKA*
Pliers with integrated tether attachment point for tool drop protection system

13 81 8

13 82 8

13 82 8 T BKA

13 88 8 US
1000 V ASTM

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch	Cutting capacities AWG	Stripping capacities for cross-sections AWG	Crimping capacities AWG	lbs
13 81 8	X	8 200		black atramentized	polished	non-slip plastic coated	9/16	0	12 and 14	12 - 20	0.52
13 82 8	X	8 200		black atramentized	polished	multi-component grips	9/16	0	12 and 14	12 - 20	0.59
13 82 8 T BKA	X	8 200					9/16	0	12 and 14	12 - 20	0.60
13 88 8 US	X	8 200	1000 V ASTM	black atramentized	polished	insulated, multi-component grips, ASTM-tested	9/16	0	12 and 14	12 - 20	0.60

*Learn more about our tethered tool system on pages 207-211

Wire Stripping Tweezers – Coated

15
11

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

15 11 120

Product Number	Packaging	↔ Inch mm	Stripping capacities Ø Inch Ø mm	⚖ lbs
15 11 120		4 3/4 120	1/64 0.6	0.08

15 19 005	1 pair of spare blades for 15 11 120 Ø 0.5 mm 1/64"
15 19 006	1 pair of spare blades for 15 11 120 Ø 0.6 mm 1/64"
15 19 008	1 pair of spare blades for 15 11 120 Ø 0.8 mm 1/32"
15 19 010	1 pair of spare blades for 15 11 120 Ø 1.0 mm 3/64"

Insulation Strippers

15

> for stripping thin cables
> accurate boring to match diameter of wire, precise stripping prism; non-adjustable
> includes opening spring for easy repetitive work
> chrome vanadium electric steel; forged, oil-hardened

15 51 160

Product Number	Packaging	↔ Inch mm		Head	Handles	Stripping capacities Ø Inch Ø mm	⚖ lbs
15 51 160		6 1/4 160		polished	non-slip plastic coated	1/64 0.5	0.24
15 61 160		6 1/4 160				1/64 0.6	0.24
15 81 160		6 1/4 160				1/32 0.8	0.24

Dismantling Tools

16
20

- 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-resistant

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

16 20 16 SB

16 20 165 SB

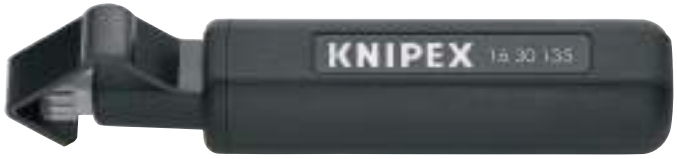
Product Number	Packaging	↔ Inch mm		Stripping capacities Ø Inch Ø mm	⚖ lbs
16 20 16 SB	X	5 1/8 130		3/16 - 5/8 4.0 - 16.0	0.17
16 20 165 SB	X	6 1/2 165		5/16 - 1 1/8 8.0 - 28.0	0.18

16 29 165	Spare blade for 16 20 16 SB / 16 20 165 SB

Dismantling Tool

16
30

- 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-resistant



16 30 135 SB


Setting the tool for circular cutting


Longitudinal cut


Spiral cutting

Product Number	Packaging	↔ Inch mm		Stripping capacities Ø Inch Ø mm	⚖ lbs
16 30 135 SB	X	5 1/4 133		1/4 - 1 1/8 6.0 - 29.0	0.22

16 39 135	Spare blade for 16 30 135 SB

Dismantling Tool

16
40

- for dismantling round cables exceeding 1" (25.0 mm) dia.
- removes all kinds of insulation layers
- suitable for longitudinal and circular cutting
- cutting depth can be adjusted up to 13/64" (5.0 mm)
- replaceable blade (both sides can be used)
- tool body: plastic, fiberglass-reinforced

16 40 150

Adjustable cutting depth

Setting the tool for longitudinal cut

Longitudinal cut

Turning the tool for circumferential cut

Circular cut

Product Number	Packaging	↔ Inch mm	Stripping capacities Ø Inch Ø mm	⚖ lbs
16 40 150	X	6 150	>1 >25	0.36

16 49 150	Spare blade for 16 40 150

Stripping Tool
for coaxial cables

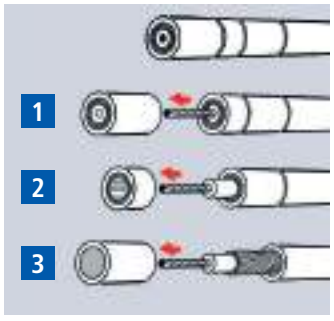
16
60

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

16 60 05 SB

3 stripping steps in one operation

Interior layers uncovered individually



Dismantling of coaxial cable in three steps

Product Number	Packaging	↔ Inch mm		Cable type	⚖ lbs
16 60 05 SB	X	4 1/8 105		RG 58, RG 59 and RG 62	0.12

Dismantling tool
for data cables

16 65

- for stripping UTP and STP data cables with diameters of 11/64" to 25/64" (4.5 to 10.0 mm)
- stripping device for 0.2 / 0.3 / 0.8 / 1.5 / 2.5 / 4.0 mm²
- double shell, folding back stripping tool
- with opening spring and locking lever
- clip for safe transport
- body: plastic, fiberglass-reinforced
- blades: special tool steel; oil-hardened, TiN-coated

16 65 125 SB

Product Number	Packaging	↔ Inch / mm		Cable type	Stripping capacities Ø Inch / Ø mm	Stripping capacities mm²	⚖ lbs
16 65 125 SB	X	5 / 125		CAT 5, CAT 6, CAT 7, Twisted-Pair (UTP/STP)	11/16 - 25/64 / 4.5 - 10.0	0.2 - 4.0	0.11

Universal Dismantling Tools

16 8

- for dismantling and stripping all common round and damp-proof installation cables between 3 x 1.5 mm² up to 5 x 2.5 mm²
- for use in conduit and distribution boxes
- double shell, folding back stripping tool
- with opening spring and locking lever
- clip for safe transport
- body: plastic, fiberglass-reinforced

16 85 125 SB
With additional blade for longitudinal cuts; telescopic blade inside; stripping device for 0.2 / 0.3 / 0.8 / 1.5 / 2.5 / 4.0 mm²; with integrated cable guide for longitudinal cut. This enables rigid insulation (e.g. halogen-free) to be stripped easily

16 80 125 SB

16 85 125 SB

Product Number	Packaging	↔ Inch / mm		Stripping capacities Ø mm	Stripping capacities mm²	Cable type	⚖ lbs
16 80 125 SB	X	5 / 125		8.0 - 13.0		round cable. e.g.: 3 x 1.5 mm² up to 5 x 2.5 mm²	0.12
16 85 125 SB	X	5 / 125		8.0 - 13.0	0.2 - 4.0	round cable. e.g.: 3 x 1.5 mm² up to 5 x 2.5 mm²	0.1

KNIPEX ErgoStrip®
Universal Dismantling Tool

16 95

For fast and precise dismantling and stripping of all common round and damp-proof installation cables (e.g. NYM cable 3 x 1.5 mm² up to 5 x 2.5 mm²), data cable and coax cable.

Innovative, ergonomic pistol grip design for easy cutting, stripping and longitudinal cutting of the sheath.

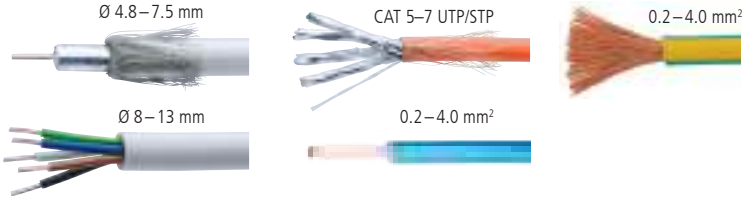
- conical, slim tool ends for better access in confined areas
- stripping holes for 0.2 / 0.3 / 0.8 / 1.5 / 2.5 / 4 mm²
- location ridges between stripping holes make for easy alignment of wire
- opening spring and locking device make the tool easy to open and secure
- easy insertion of coax and data cable
- multi-component design with a soft plastic zone for comfortable use and a secure grip
- housing: plastic, fiberglass-reinforced

16 95 01 SB
version for right-handers

PAT. PEND.

16 95 02 SB
version for left-handers

16 95 02 SB
ErgoStrip® L for left-handers




Stripping of NYM cable

Concealed cutting blade for stripping the outside cable sheath


Stripping single conductor wire


Stripping data cable


Stripping coax cable sheath

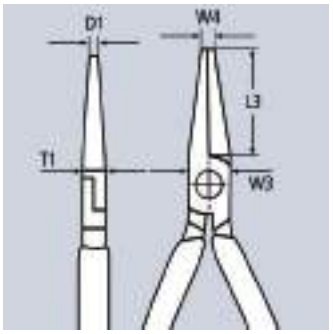

Stripping the internal portion of the coax cable

Product Number	Packaging	↔ Inch mm	Version		Wire stripping for round cable Ø mm	Wire stripping for conductors and strands mm²	Wire stripping for data cable	Wire stripping for coax cable Ø mm	⚖ lbs
16 95 01 SB	X	5 1/4 135	Right-handed		8 - 13	0.2 - 4.0	CAT 5 - 7 Twisted pair (UTP/STP)	4.8 - 7.5	0.21
16 95 02 SB	X	5 1/4 135	Left-handed		8 - 13	0.2 - 4.0	CAT 5 - 7 Twisted pair (UTP/STP)	4.8 - 7.5	0.21

Round pliers
with cutting edge
Jewelers Pliers, DIN ISO 5743

19

> for fine wire and working with jewelry
> ideal for cutting and bending work, also in electronics
> bending wire loops
> precision ground round jaws with fine, pointed tips
> cutting edges induction hardened (approx. 60 HRC)
> vanadium steel; forged, multi stage oil-hardened



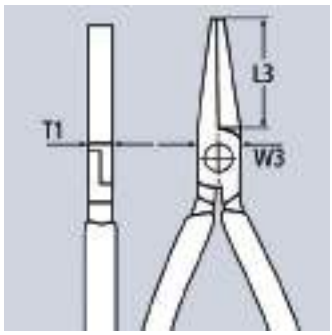
19 01 130

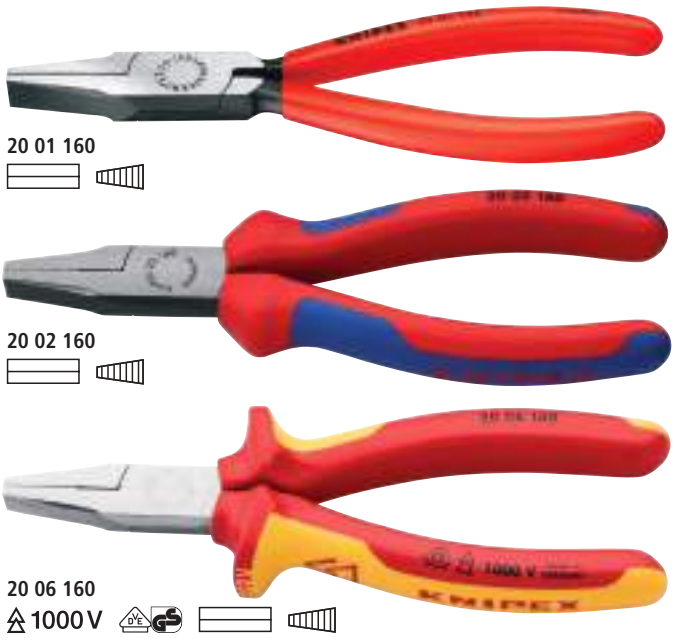
Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◑ Ø Inch Ø mm	Cutting capacities ◕ Ø Inch Ø mm	Dimensions D1 Inch mm	Dimensions L3 Inch mm	Dimensions T1 Inch mm	Dimensions W3 Inch mm	Dimensions W4 Inch mm	lbs
19 01 130		5 1/4 130		black atramentized	polished	non-slip plastic coated	3/32 2.2	1/16 1.6	3/64 1.0	1 1/4 32.0	5/16 8.0	17/32 13.5	5/64 2.0	0.16

Flat Nose Pliers
DIN ISO 5745

20

> flat, short, wide jaws
> knurled gripping surfaces
> special tool steel; forged, oil-hardened





20 01 160

20 02 160

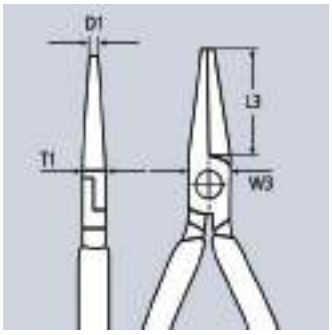
20 06 160
1000 V

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Dimensions L3 Inch mm	Dimensions W3 Inch mm	Dimensions T1 Inch mm	lbs
20 01 125		5 125		black atramentized	polished	non-slip plastic coated	1 1/16 27.0	37/64 14.5	5/16 8.0	0.18
20 01 140		5 1/2 140					1 7/64 28.0	39/64 15.5	3/8 9.5	0.24
20 01 160		6 1/4 160					1 3/16 30.0	43/64 17.0	3/8 9.5	0.32
20 01 180		7 1/4 180					1 3/8 35.0	3/4 19.0	25/64 10.0	0.41
20 02 140		6 1/4 140		black atramentized	polished	multi-component grips	1 3/32 28.0	39/64 15.5	3/8 9.5	0.30
20 02 160		6 1/4 160					1 3/16 30.0	43/64 17.0	3/8 9.5	0.38
20 06 160		6 1/2 165	1000 V	chrome plated	polished	insulated, multi-component grips, VDE-tested	1 3/16 30.0	43/64 17.0	3/8 9.5	0.41

Round Nose Pliers
DIN ISO 5745

22

> for bending wire loops
> round, short jaws; smooth ground
> smooth tips
> special tool steel; forged, oil-hardened



22 01 160

22 02 160

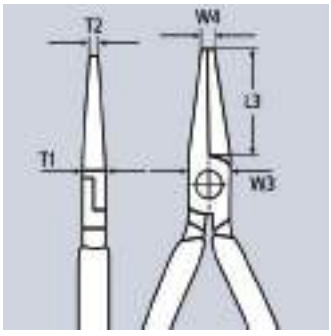
22 08 160 SBA
1000 V ASTM

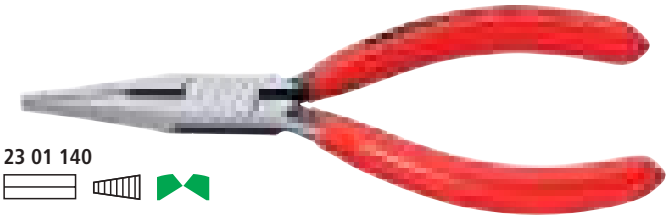
Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Dimensions L3 Inch mm	W3 Inch mm	D1 Inch mm	T1 Inch mm	lbs
22 01 125		5 125		black atramentized	polished	non-slip plastic coated	1 1/16 27.0	37/64 14.5	5/64 2.0	5/16 8.0	0.16
22 01 140		5 1/2 140					1 7/64 28.0	21/32 16.5	3/32 2.5	3/8 9.5	0.22
22 01 160	X	6 1/4 160					1 3/16 30.0	45/64 18.0	1/8 3.0	3/8 9.5	0.30
22 02 140		5 1/2 140		black atramentized	polished	multi-component grips	1 7/64 28.0	21/32 16.5	3/32 2.5	3/8 9.5	0.29
22 02 160		6 1/4 160					1 3/16 30.0	45/64 18.0	1/8 3.0	3/8 9.5	0.37
22 08 160 SBA	X	6 1/4 160	1000 V ASTM	black atramentized	polished	insulated with multi-component grips, ASTM-tested	1 3/16 30.0	45/64 18.0	1/8 3.0	3/8 9.5	0.40

Flat Nose Pliers with cutting edges
Precision Mechanics Pliers
DIN ISO 5745

23

> suitable for gripping and cutting work in fine mechanics
> flat, long and tapered jaws
> cutting edge hardness (approx. 60 HRC)
> high-grade special tool steel; forged, multi stage oil-hardened





23 01 140

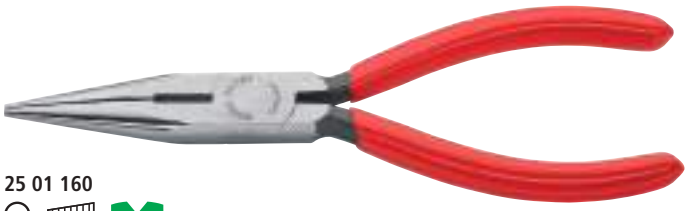
Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Dimensions T1 Inch mm	L3 Inch mm	W3 Inch mm	W4 Inch mm	T2 Inch mm	lbs
23 01 140		5 1/2 140		polished	plastic coated	3/32 2.5	1/16 1.6	9/32 7.0	1 3/8 35.0	31/64 12.5	1/8 3.0	11/64 4.5	0.17

Snipe Nose Side Cutting Pliers

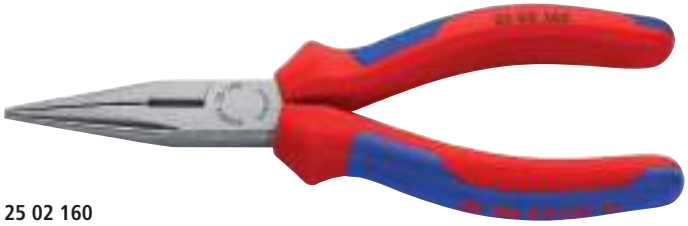
Radio Pliers, DIN ISO 5745

25

- suitable for fine gripping and cutting work
- pointed, half-round jaws
- serrated gripping surfaces
- cutting edges for soft, medium hard and hard wire
- cutting edges induction hardened, cutting edge hardness (approx. 61 HRC)
- vanadium steel; forged, multi-stage oil-hardened

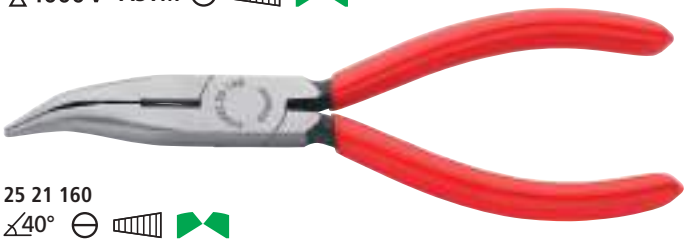


25 01 160

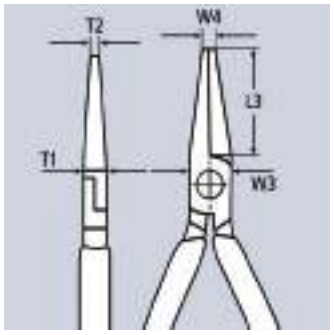


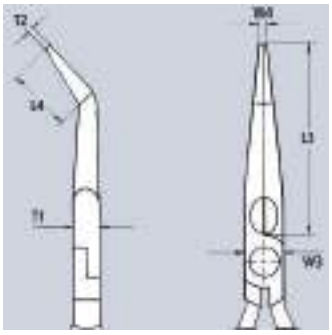
25 02 160

25 08 160 SBA
1000 V ASTM



25 21 160
40°





Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◑ Ø Inch Ø mm	Cutting capacities ◕ Ø Inch Ø mm	Dimensions L3 Inch mm	L4 Inch mm	W3 Inch mm	T1 Inch mm	W4 Inch mm	T2 Inch mm	⚖ lbs
25 01 125		5 125		black atramentized	polished	plastic coated	3/32 2.2	1/16 1.6	1 1/16 27.0	-	1/2 13.0	9/32 7.0	3/32 2.5	5/64 1.8	0.16
25 01 140		5 1/2 140					3/32 2.5	1/16 1.6	1 21/32 42.0	-	19/32 15.0	5/16 8.0	3/32 2.5	5/64 2.0	0.20
25 01 160	X	6 1/4 160					3/32 2.5	1/16 1.6	1 31/32 50.0	-	21/32 16.5	23/64 9.0	1/8 3.0	3/32 2.5	0.25
25 02 140	X	5 1/2 140		black atramentized	polished	multi-component grips	3/32 2.5	1/16 1.6	1 21/32 42.0	-	19/32 15.0	5/16 8.0	3/32 2.5	5/64 2.0	0.24
25 02 160	X	6 1/4 160					3/32 2.5	1/16 1.6	1 31/32 50.0	-	21/32 16.5	23/64 9.0	1/8 3.0	3/32 2.5	0.32
25 08 160 SBA	X	6 1/4 160	1000 V ASTM	black atramentized	polished	insulated, multi-component grips, ASTM-tested	3/32 2.5	1/16 1.6	1 31/32 50.0	-	21/32 16.5	23/64 9.0	1/8 3.0	3/32 2.5	0.34
25 21 160	X	6 1/4 160	40°	black atramentized	polished	plastic coated	3/32 2.5	1/16 1.6	1 31/32 50.0	29/32 23.0	21/32 16.5	23/64 9.0	1/8 3.0	3/32 2.5	0.25

Snipe Nose Side Cutting Pliers
Stork Beak Pliers, DIN ISO 5745

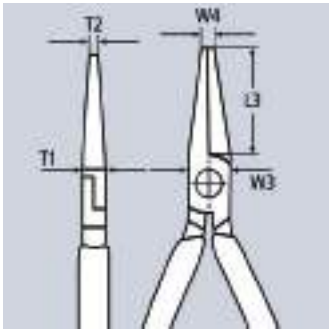
26

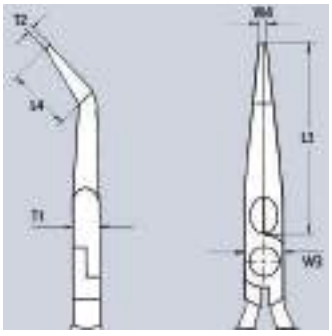
Elastic tips: stable even when twisted

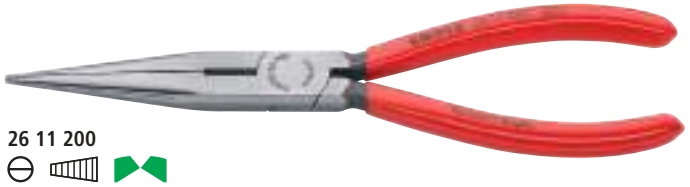
- distortion-tolerant, flexible precision tips
- half-round, long, pointed jaws
- hardened cutting edges (approx. 61 HRC) for soft, medium hard and hard wire
- vanadium steel; forged, multi-stage oil-hardened

26 11 200 S1
Integrated stripping hole in cutting blade. Strips 12 AWG wire

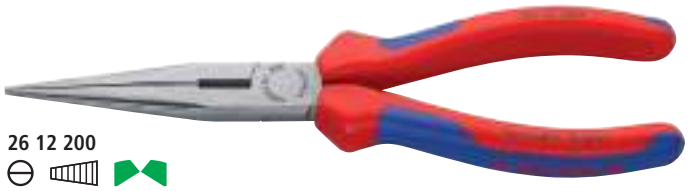
26 12 200 T BKA / 26 22 200 T BKA*
Pliers with integrated tether attachment point for tool drop protection system



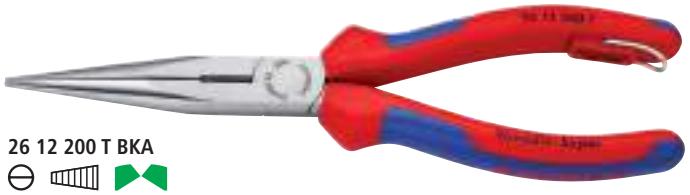




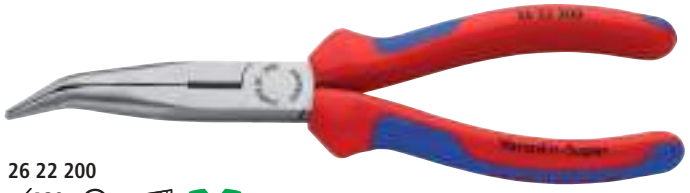
26 11 200



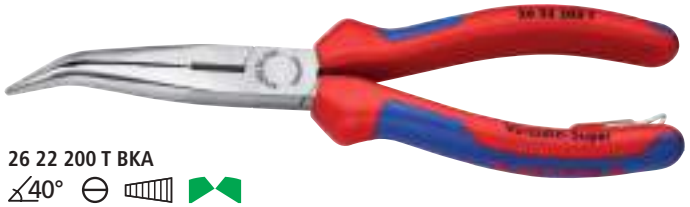
26 12 200



26 12 200 T BKA



26 22 200
40°



26 22 200 T BKA
40°

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Dimensions L3 Inch mm	L4 Inch mm	T1 Inch mm	W3 Inch mm	W4 Inch mm	T2 Inch mm	⚖ lbs
26 11 200	X	8 200		black atramentized	polished	plastic coated	1/8 3.2	3/32 2.2	2 7/8 73.0	-	3/8 9.5	45/64 18.0	1/8 3.0	3/32 2.5	0.38
26 11 200 S1	X	8 200					1/8 3.2	3/32 2.2	2 7/8 73.0	-	3/8 9.5	45/64 18.0	1/8 3.0	3/32 2.5	0.38
26 12 200	X	8 200		black atramentized	polished	multi-component grips	1/8 3.2	3/32 2.2	2 7/8 73.0	-	3/8 9.5	45/64 18.0	1/8 3.0	3/32 2.5	0.44
26 12 200 T BKA	X	8 200		black atramentized	polished	multi-component grips, integrated tether attachment point	1/8 3.2	3/32 2.2	2 7/8 73.0	-	3/8 9.5	45/64 18.0	1/8 3.0	3/32 2.5	0.45
26 21 200	X	8 200	40°	black atramentized	polished	plastic coated	1/8 3.2	3/32 2.2	2 7/8 73.0	29/32 23.0	3/8 9.5	45/64 18.0	1/8 3.0	3/32 2.5	0.38
26 22 200	X	8 200	40°	black atramentized	polished	multi-component grips	1/8 3.2	3/32 2.2	2 7/8 73.0	29/32 23.0	3/8 9.5	45/64 18.0	1/8 3.0	3/32 2.5	0.43
26 22 200 T BKA	X	8 200	40°	black atramentized	polished	multi-component grips, integrated tether attachment point	1/8 3.2	3/32 2.2	2 7/8 73.0	29/32 23.0	3/8 9.5	45/64 18.0	1/8 3.0	3/32 2.5	0.45

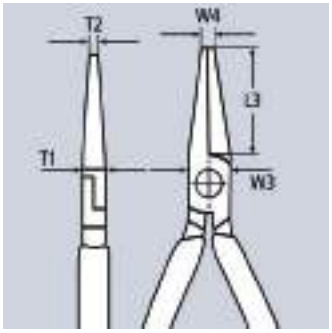
*Learn more about our tethered tool system on pages 207-211

Snipe Nose Side Cutting Pliers

Stork Beak Pliers

DIN ISO 5745 IEC 60900 DIN EN 60900

- distortion-tolerant, flexible precision tips
- half-round, long, pointed jaws
- hardened cutting edges (approx. 61 HRC) for soft, medium hard and hard wire
- vanadium steel; forged, multi-stage oil-hardened



26 18 200 US

1000 V ASTM

26 28 200 SBA

40° 1000 V ASTM

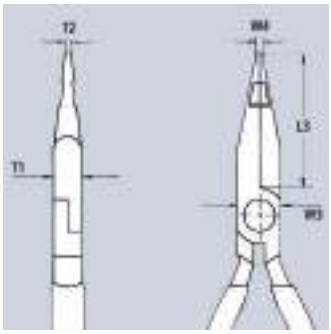
Product Number	Packaging	Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Dimensions L3 Inch mm	T1 Inch mm	W3 Inch mm	W4 Inch mm	T2 Inch mm	lbs
26 18 200 US	X	8 200	1000 V ASTM	black atramentized	polished	insulated, multi-component handles, ASTM-tested	1/8 3.2	3/32 2.2	2 7/8 73.0	3/8 9.5	45/64 18.0	1/8 3.0	3/32 2.5	0.45
26 28 200 SBA	X	8 200	40° 1000 V ASTM	black atramentized	polished	insulated, multi-component handles, ASTM-tested	1/8 3.2	3/32 2.2	2 7/8 73.0	3/8 9.5	45/64 18.0	1/8 3.0	3/32 2.5	0.46

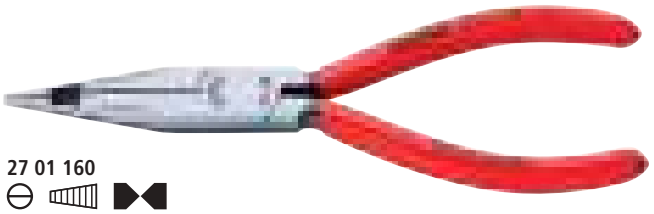
Snipe Nose Pliers with Center Cutter

Telephone Pliers
DIN ISO 5743

27

> grips and separates single wires in harnesses
> center cutter for soft wire
> half-round jaws
> serrated gripping surfaces
> chrome vanadium electric steel; forged, oil-hardened





27 01 160

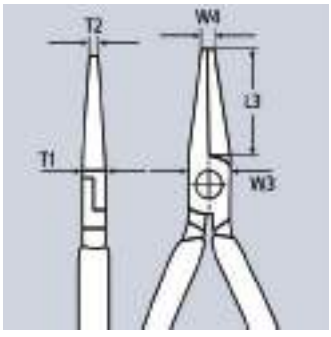
Product Number	Packaging	↔ Inch mm		Head	Handles	Dimensions L3 Inch mm	W3 Inch mm	T1 Inch mm	W4 Inch mm	T2 Inch mm	⚖ lbs
27 01 160		6 1/4 160		polished	plastic coated	1 27/32 47.0	21/32 16.5	3/8 9.5	1/8 3.0	5/64 2.0	0.27

Long Reach Needle Nose Pliers

DIN ISO 5743

28

> suitable for gripping and assembly work
> serrated gripping surfaces
> high-grade special tool steel; forged, oil-hardened



28 01 200

28 21 200

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Dimensions L3 Inch mm	W3 Inch mm	T1 Inch mm	W4 Inch mm	T2 Inch mm	⚖ lbs
28 01 200		8 200		black atramentized	polished	plastic coated	1 19/64 33.0	17/32 13.5	13/32 10.5	5/32 4.0	13/32 10.5	0.43
28 21 200		8 200		black atramentized	polished	plastic coated	1 11/32 34.0	17/32 13.5	13/32 10.5	1/8 3.0	1/8 3.0	0.41

Long Reach Needle Nose Pliers

with transverse wave

DIN ISO 9745

Long assembly pliers with wave profile

Long slim design is perfect for gripping and assembly work in hard to reach areas

Deep parts can be easily reached using the slim, half-round tips

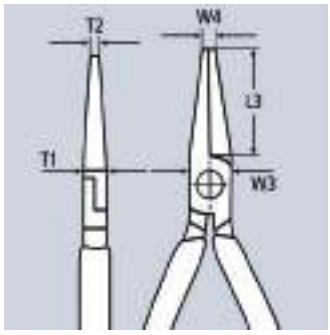
Grips up to 2 1/4"

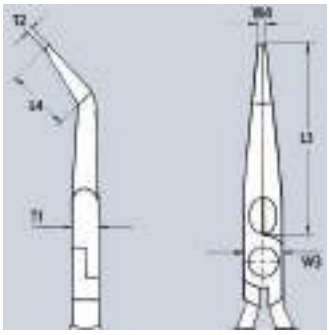
- careful yet reliable gripping, holding and guiding of small copper pipes, screws and cables as well as other round parts due to milled grooves with smooth surfaces
- four small pulling grooves in jaws will grab tightly when holding and pulling round objects
- serrated gripping area for holding on to round parts near base of jaws
- particularly suitable for work in the automotive trade and in mechanical engineering
- slim yet robust tool
- forged from special tool steel; oil-hardened and tempered

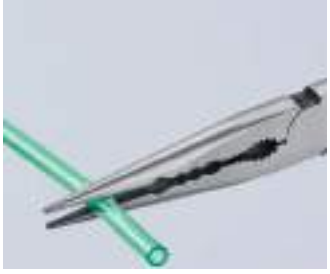
28 71 280

28 81 280

45°







Transverse wave shape gripping profile for gripping, holding and guiding

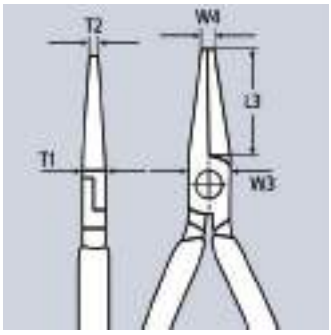
Product Number	Packaging	↔ Inch / mm		Pliers	Head	Handles	Dimensions L3 Inch / mm	L4 Inch / mm	W3 Inch / mm	T1 Inch / mm	W4 Inch / mm	T2 Inch / mm	lbs
28 71 280	X	11 / 280		black atramentized	polished	non-slip plastic coated	3 / 76.5	-	25/32 / 20.0	23/64 / 9.0	1/8 / 3.0	3/32 / 2.5	0.52
28 81 280	X	11 / 280	45°	black atramentized	polished	non-slip plastic coated	2 3/4 / 70.0	25/32 / 20.0	25/32 / 20.0	23/64 / 9.0	3/32 / 2.5	3/32 / 2.5	0.52

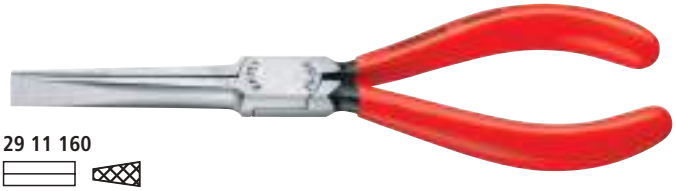
Telephone Pliers
DIN ISO 5745

29

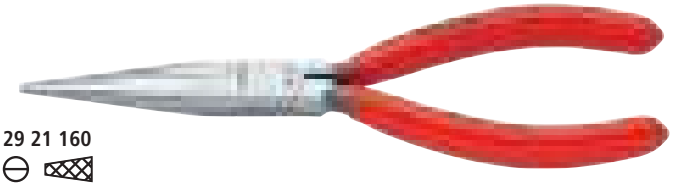
> cross-hatched gripping surfaces, knurled
> chrome vanadium electric steel; forged, oil-hardened

29 21 160
Extra slim fine tips; suitable for soldering work





29 11 160



29 21 160

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Dimensions L3 Inch mm	W3 Inch mm	T1 Inch mm	W4 Inch mm	T2 Inch mm	⚖ lbs
29 11 160		6 1/4 160		black atramentized	polished	plastic coated	2 11/64 55.0	35/64 14.0	5/16 8.0	3/32 2.5	21/64 8.5	0.23
29 21 160		6 1/4 160		black atramentized	polished	plastic coated	2 1/8 54.0	35/64 14.0	23/64 9.0	5/64 2.0	5/64 2.0	0.25

Long Nose Pliers
DIN ISO 5745

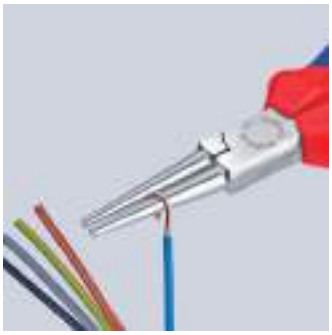
30

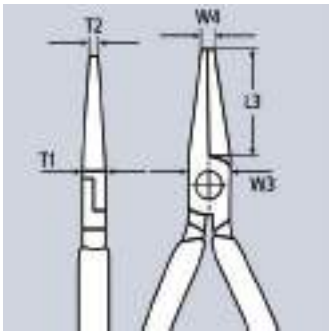
> heavy-duty gripping pliers
> different jaw styles for a wide range of applications
> chrome vanadium electric steel; forged, oil-hardened

Style 1
Long, trapezoidal jaws; serrated gripping surfaces

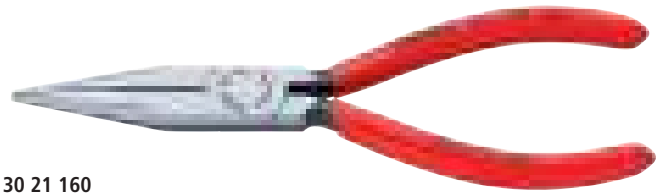
Style 2
Long, half-round jaws; serrated gripping surfaces

Style 3
Long, round jaws; smooth gripping surfaces

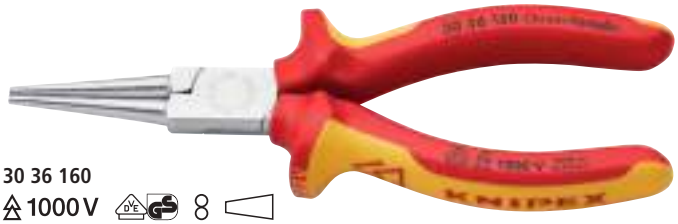




30 11 160



30 21 160



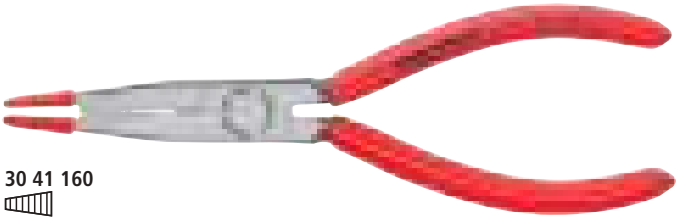
30 36 160
1000 V

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Style	Dimensions L3 Inch mm	W3 Inch mm	T1 Inch mm	W4 Inch mm	T2 Inch mm	⚖ lbs
30 11 140		5 1/2 140		black atramentized	polished	plastic coated	1	1 21/32 42.0	19/32 15.0	5/16 8.0	3/32 2.5	5/32 4.0	0.19
30 11 160		6 1/4 160					1	1 53/64 46.5	21/32 16.5	3/8 9.5	1/8 3.0	13/64 5.0	0.27
30 11 190		7 1/2 190					1	1 31/32 50.0	47/64 18.5	3/8 9.5	1/8 3.0	9/32 7.0	0.31
30 16 160		6 1/4 160	1000 V	chrome plated	chrome plated	insulated, multi-component grips, VDE-tested	1	1 53/64 46.5	21/32 16.5	3/8 9.5	1/8 3.0	13/64 5.0	0.33
30 21 140		5 1/2 140		black atramentized	polished	plastic coated	2	1 21/32 42.0	19/32 15.0	5/16 8.0	3/32 2.5	5/64 2.0	0.21
30 21 160		6 1/4 160					2	1 31/32 50.0	21/32 16.5	3/8 9.5	1/8 3.0	3/32 2.5	0.27
30 21 190		7 1/2 190					2	1 31/32 50.0	47/64 18.5	5/16 8.0	1/8 3.0	3/32 2.4	0.30
30 31 160		6 1/4 160		black atramentized	polished	plastic coated	3	1 19/32 41.0	21/32 16.5	3/8 9.5	13/64 5.0	3/32 2.5	0.24
30 36 160		6 1/4 160	1000 V	chrome plated	chrome plated	insulated, multi-component grips, VDE-tested	3	1 19/32 41.0	21/32 16.5	3/8 9.5	13/64 5.0	3/32 2.5	0.31

Halogen Bulb Exchange Pliers

30
41

> for the installation of wedge bulb lamps
> plastic coated gripping surfaces
> chrome vanadium electric steel; forged, oil-hardened



30 41 160

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	⚖ lbs
30 41 160		6 1/4 160		black atramentized	polished	plastic coated	0.29

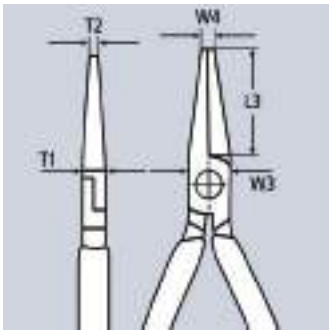
Gripping Pliers

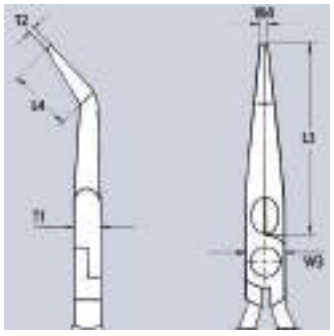
Needle Nose Pliers, DIN ISO 5743

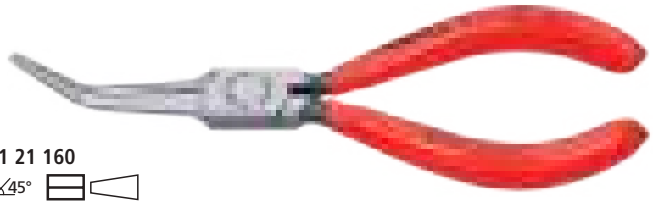
31

> precision pliers for assembly, bending and adjusting work
> with extra-long jaws: length of jaws 2 11/64" (55.0 mm)
> smooth gripping surfaces and edges
> chrome vanadium electric steel; forged, oil-hardened

31 11 160







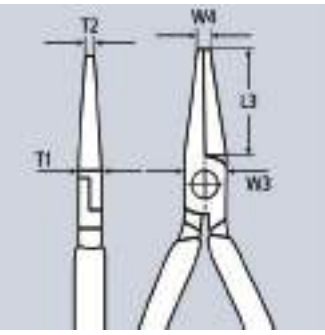
31 21 160
∡45°

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Dimensions L3 Inch mm	L4 Inch mm	W3 Inch mm	T1 Inch mm	W4 Inch mm	T2 Inch mm	⚖ lbs
31 11 160		6 1/4 160		black atramentized	polished	plastic coated	2 11/64 55.0	-	5/8 16.0	19/64 7.5	5/64 1.8	3/32 2.5	0.22
31 21 160		6 1/4 160	∡45°	black atramentized	polished	plastic coated	2 11/64 55.0	1 1/16 27.0	5/8 16.0	19/64 7.5	5/64 1.8	3/32 2.5	0.21

Relay Adjusting Pliers
DIN ISO 5743

32

> perfect for gripping small wires and bending contact and relay springs
> polished gripping surfaces
> smooth edges
> high-grade special tool steel; forged, oil-hardened



32 11 135

32 21 135

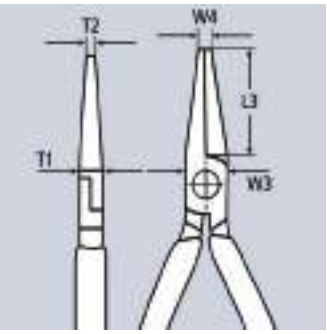
32 31 135
∡40°

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Dimensions L3 Inch mm	W3 Inch mm	T1 Inch mm	W4 Inch mm	T2 Inch mm	⚖ lbs
32 11 135		5 1/4 135		black atramentized	polished	plastic coated	1 11/32 34.0	31/64 12.5	9/32 7.0	1/16 1.4	1/16 1.5	0.17
32 21 135		5 1/4 135		black atramentized	polished	plastic coated	1 11/32 34.0	31/64 12.5	9/32 7.0	1/16 1.4	9/64 3.5	0.16
32 31 135		5 1/4 135	∡40°	black atramentized	polished	plastic coated	1 1/4 32.0	31/64 12.5	9/32 7.0	1/16 1.4	9/64 3.5	0.16

Duckbill Pliers
DIN ISO 5743

33

> duckbill shaped jaws 23/64" (9.0 mm) wide at the tip and tapering to 1/16" (1.5 mm) thickness
> smooth gripping surfaces
> chrome vanadium electric steel; forged, oil-hardened



33 01 160

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Dimensions L3 Inch mm	W3 Inch mm	T1 Inch mm	W4 Inch mm	T2 Inch mm	⚖ lbs
33 01 160	X	6 1/4 160		black atramentized	polished	plastic coated	2 11/64 55.0	19/32 15.0	19/64 7.5	1/8 3.0	23/64 9.0	0.23

The Subtle Difference

KNIPEX precision electronics pliers are made of high-quality ball bearing steel and processed with the highest degree of care. Each opening movement is gentle and even without backlash. Each work step proceeds reliably and precisely. This makes work much easier for professionals.

Which Electronics Pliers is right for you?

KNIPEX has a full line of gripping and cutting electronics pliers. They are available in a variety of jaw types, joint and head styles, bevel types and can have additional features to make working with our products simple and easy

The gripping line is available in multiple jaw types and gripping surfaces, giving you options for choosing the pliers suited for your work. The cutting line is more expansive and has multiple products lines and pliers available to find the one best fit for you.

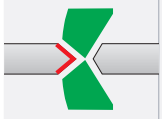
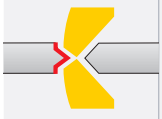
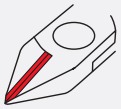
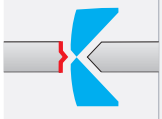
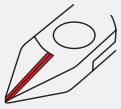
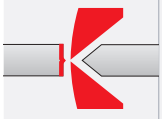
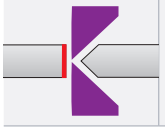
Joint Type
Box joint, bolted and rivet

Box joint	
Bolted joint	
Rivet joint	

Head Type
Oval, tapered and end cutting

Oval head	
Tapered head	
End cutting head	

Bevel/Cutting Edge Type
Semi-flush, flush and super (ultra) flush

	with bevel (outside bevel)		semi-flush
	with small bevel (outside bevel)		semi-flush
	with very small bevel (outside bevel)		semi-flush
	without bevel (outside bevel)		flush
	flush cut		ultra or super flush

Handle Type
KNIPEX has multiple handle styles available (plastic dipped, single-component, multi-component, etc.) that can be broken down into two main categories for electronic pliers - ESD or Non-ESD

Non-ESD		ESD	
Plastic Dipped		ESD	
Single-component			
Multi-component			

Joint Type
There are three joint types available: Box joint, Bolted joint and Rivet joint.

- Box joint is used in some of our most popular product lines including our water pump pliers and is proven for precision and durability with its high torsion resistance.
- Bolted joint provides the most precision and a permanently even cutting movement making it a perfect fit for repetitive type applications.
- Rivet joint offers the most economical pick of the joint types.

Head Type
There are three head styles available in our cutting pliers: Oval, Tapered and End Cutting.

- Oval style is the most durable due to the additional material close to the cutting edges.
- Tapered has a narrowed head which allows for easier access into tight places.
- End Cutting head style is best for hard-to reach areas and for working on components from above.

Bevel Type
A bevel is a slopping surface on the outer side of the cutting edge.

- A small bevel leads to an easier and more flush cut while the risk of damaging the cutting edges rises (overloading).
- A larger bevel allows hard materials to be cut without the risk of damage to the cutting edges.
- Depending on the size of the bevel, you will get either a semi-flush, flush or ultra-flush cut finish. The choice of bevel depends on the material being cut and the desired flush cut end result. A flush cutting edge is only suitable for soft materials such as copper or plastics.

Handle Type
Our four handle styles are plastic dipped, single-component, multi-component and ESD.

- ESD stands for Electrostatic Discharge. The handles themselves discharge electrostatic energy in a gradual and controlled manner to protect electrical components.
- Plastic dipped is our most basic handle and is easy to maintain and clean of oils and residues.
- Our component handles offer comfort and ease of use making them great for repetitive work where comfort is a key need.

Additional Features
Other features include lead catcher, double springs and carbide cutting edges.

ESD pliers
Semi-flush, flush and super (ultra) flush

- Electrostatic energy is discharged through the handles in a gradual and controlled manner
- ESD handles protect electrical components from electrostatic discharge
- KNIPEX ESD handles are in accordance with applicable standards
  - IEC TR 61 340-5
  - DIN EN 61 340-5
  - SP Method 2472

Precision Electronics Gripping Pliers
DIN ISO 9655

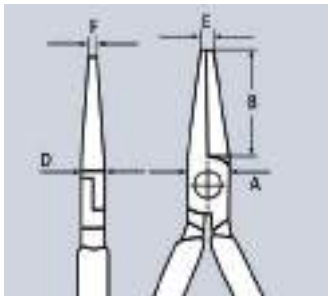
34

- for very precise assembly work, e.g. in electronics and fine mechanics
- for gripping, holding and bending
- smoothly ground gripping surfaces
- approx. 20% lighter than conventional electronics pliers
- bolted joint and carefully manufactured joint surfaces for even, low-friction movement throughout the entire opening range
- double spring for a gentle and even opening
- ergonomically optimized handles
- ball bearing chrome steel; forged, manifold oil-hardened

Style 1
Flat, wide jaws

Style 2
Half-round jaws

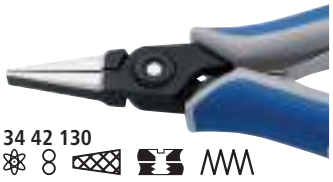
Style 3
Round, pointed jaws



34 12 130

34 22 130 ESD

34 32 130



34 42 130

34 52 130 ESD

ESD pliers (electrostatic discharge)

Electrostatic energy is discharged through the handles in a gradual and controlled manner which protects components endangered by electrostatic discharge in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

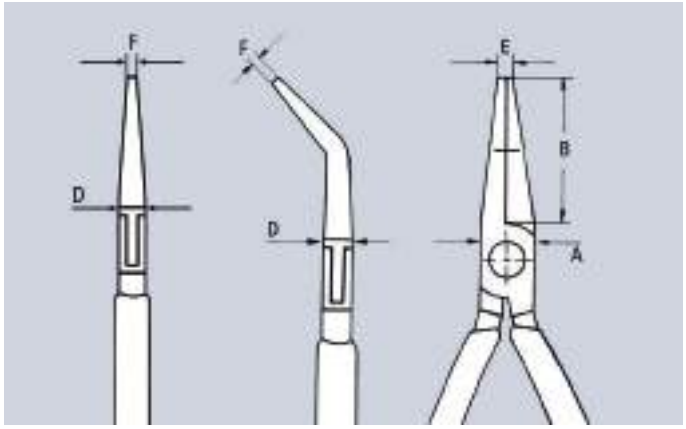
Product Number	Packaging	↔ Inch / mm		Head	Handles	Style	Dimensions A Inch / mm	B Inch / mm	D Inch / mm	E Inch / mm	F Inch / mm	⚖ lbs
34 12 130		5 1/4 / 130		polished	multi-component grips	1	7/16 / 11.2	55/64 / 21.9	1/4 / 6.5	1/16 / 1.4	9/64 / 3.5	0.14
34 12 130 ESD		5 1/4 / 130		polished	ESD multi-component grips	1	7/16 / 11.2	55/64 / 21.9	1/4 / 6.5	1/16 / 1.4	9/64 / 3.5	0.14
34 22 130		5 1/4 / 130		polished	multi-component grips	2	7/16 / 11.2	57/64 / 22.7	1/4 / 6.5	1/16 / 1.6	1/16 / 1.6	0.14
34 22 130 ESD		5 1/4 / 130		polished	ESD multi-component grips	2	7/16 / 11.2	57/64 / 22.7	1/4 / 6.5	1/16 / 1.6	1/16 / 1.6	0.14
34 32 130		5 1/4 / 130		polished	multi-component grips	3	7/16 / 11.2	15/16 / 23.7	1/4 / 6.5	5/64 / 2.0	3/64 / 1.0	0.14
34 32 130 ESD		5 1/4 / 130		polished	ESD multi-component grips	3	7/16 / 11.2	15/16 / 23.7	1/4 / 6.5	5/64 / 2.0	3/64 / 1.0	0.14
34 42 130		5 1/4 / 130		polished	multi-component grips	4	7/16 / 11.2	55/64 / 21.9	1/4 / 6.5	1/16 / 1.6	9/64 / 3.5	0.14
34 42 130 ESD		5 1/4 / 130		polished	ESD multi-component grips	4	7/16 / 11.2	55/64 / 21.9	1/4 / 6.5	1/16 / 1.6	9/64 / 3.5	0.14
34 52 130		5 1/4 / 130		polished	multi-component grips	5	7/16 / 11.2	55/64 / 21.9	1/4 / 6.5	1/16 / 1.6	1/16 / 1.6	0.14
34 52 130 ESD		5 1/4 / 130		polished	ESD multi-component grips	5	7/16 / 11.2	55/64 / 21.9	1/4 / 6.5	1/16 / 1.6	1/16 / 1.6	0.14

Sets of pliers can be found on page 203

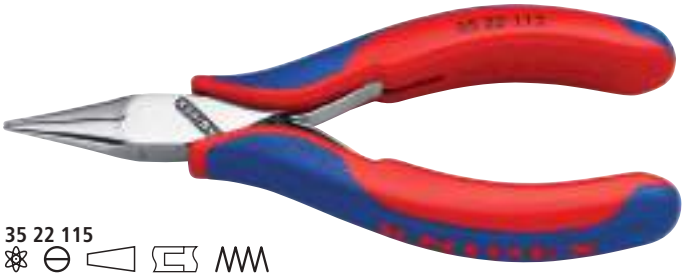
Electronics Pliers
DIN ISO 9655

35

- precision pliers for ultra fine assembly work in electronics and fine mechanics
- designed for gripping, holding and bending small components
- sturdy, zero backlash
- smooth gripping surfaces and rounded edges prevent damage to components
- low-friction double spring for gentle and even opening
- the mirror polish, together with a fine film of oil, offer effective rust protection – no circuit faults caused by peeling chrome from plated tools
- ball bearing chrome steel



35 11 115



35 22 115

35 32 115

35 42 115

35 52 145

35 62 145

35 72 145

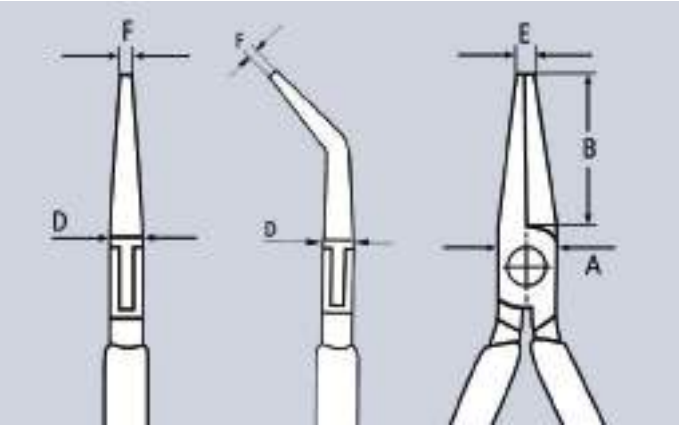
35 82 145

Product Number	Packaging	↔ Inch mm		Head	Handles	Dimensions A Inch mm	B Inch mm	D Inch mm	E Inch mm	F Inch mm	⚖ lbs
35 11 115		4 1/2 115		mirror polished	slim plastic grips	3/8 9.5	57/64 22.5	17/64 6.7	5/64 2.0	5/32 4.0	0.13
35 12 115	X	4 1/2 115		mirror polished	multi-component grips	3/8 9.5	57/64 22.5	17/64 6.7	5/64 2.0	5/32 4.0	0.16
35 21 115		4 1/2 115		mirror polished	slim plastic grips	3/8 9.5	57/64 22.5	17/64 6.7	5/64 2.0	1/16 1.5	0.13
35 22 115		4 1/2 115		mirror polished	multi-component grips	3/8 9.5	57/64 22.5	17/64 6.7	5/64 2.0	1/16 1.5	0.16
35 31 115		4 1/2 115		mirror polished	slim plastic grips	3/8 9.5	57/64 22.5	17/64 6.7	5/64 2.0	3/64 1.0	0.13
35 32 115		4 1/2 115		mirror polished	multi-component grips	3/8 9.5	57/64 22.5	17/64 6.7	5/64 2.0	3/64 1.0	0.16
35 41 115		4 1/2 115		mirror polished	single-component grips	3/8 9.5	57/64 22.5	17/64 6.7	5/64 2.0	1/16 1.5	0.16
35 42 115		4 1/2 115		mirror polished	multi-component grips	3/8 9.5	57/64 22.5	17/64 6.7	5/64 2.0	1/16 1.5	0.16
35 52 145		5 3/4 145		mirror polished	multi-component grips	15/32 12.0	1 37/64 40.0	19/64 7.5	1/16 1.5	5/32 4.0	0.23
35 62 145		5 3/4 145		mirror polished	multi-component grips	15/32 12.0	1 37/64 40.0	19/64 7.5	3/32 2.5	1/16 1.5	0.23
35 72 145		5 3/4 145		mirror polished	multi-component grips	15/32 12.0	1 37/64 40.0	19/64 7.5	3/32 2.5	3/64 1.3	0.23
35 82 145		5 3/4 145		mirror polished	multi-component grips	15/32 12.0	1 3/8 35.0	19/64 7.5	3/32 2.5	3/64 1.0	0.23

Sets of pliers can be found on page 203

Electronics Pliers ESD
DIN ISO 9655

- precision pliers for ultra fine assembly work in electronics and fine mechanics
- designed for gripping, holding and bending small components
- electrically discharging handles – dissipative
- precision box joint
- smooth gripping surfaces and rounded edges prevent damage to components
- low-friction double spring for gentle and even opening
- the mirror polish, together with a fine film of oil, offer the best possible rust protection – no circuit faults caused by peeling chrome from plated tools
- ball bearing chrome steel



ESD pliers (electrostatic discharge)

Electrostatic energy is discharged through the handles in a gradual and controlled manner which protects components endangered by electrostatic discharge in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

35 12 115 ESD

35 22 115 ESD

35 32 115 ESD

35 42 115 ESD

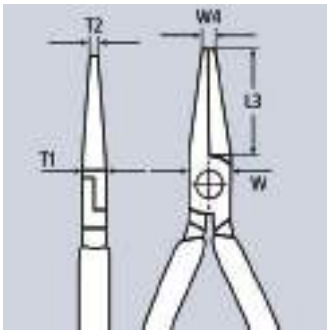
Product Number	Packaging	↔ Inch mm		Head	Handles	Dimensions A Inch mm	B Inch mm	D Inch mm	E Inch mm	F Inch mm	lbs
35 12 115 ESD		4 1/2 115		mirror polished	ESD multi-component grips	3/8 9.5	57/64 22.5	17/64 6.7	5/64 2.0	5/32 4.0	0.16
35 22 115 ESD		4 1/2 115		mirror polished	ESD multi-component grips	3/8 9.5	57/64 22.5	17/64 6.7	5/64 2.0	1/16 1.5	0.16
35 32 115 ESD		4 1/2 115		mirror polished	ESD multi-component grips	3/8 9.5	57/64 22.5	17/64 6.7	5/64 2.0	3/64 1.0	0.15
35 42 115 ESD		4 1/2 115		mirror polished	ESD multi-component grips	3/8 9.5	57/64 22.5	17/64 6.7	5/64 2.0	1/16 1.5	0.16

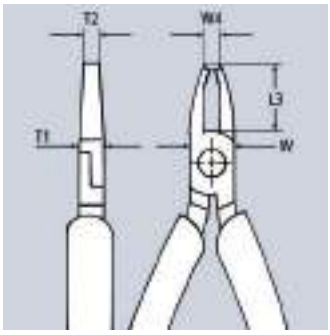
Sets of pliers can be found on page 203

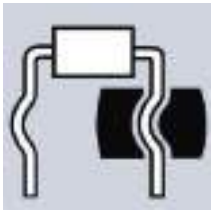
Electronics Mounting Pliers
DIN ISO 5743

36

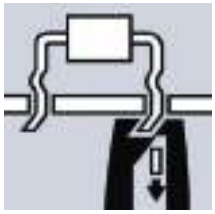
- precision pliers for very fine assembly and repair work in electronics
- for bending and cutting off wire ends on components
- precision box-joint for greater strength
- smooth gripping surfaces
- smooth edges
- low-friction double spring for gentle and even opening
- the mirror polish, together with a fine film of oil, offer the best possible rust protection - no circuit faults caused by peeling chrome from plated tools
- special tool steel, forged, oil-hardened



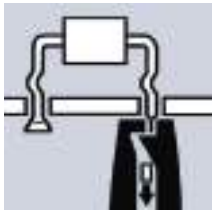




36 12 130
to bend wire in shape for the distance to the board



36 22 125
to bend and cut wire at 1/16" (1.6 mm) length below the board



36 32 125
to crunch and cut wire at 1/16" (1.6 mm) length below the board

36 12 130

36 22 125

36 32 125

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities Ø Inch Ø mm	Dimensions L3 Inch mm	W Inch mm	T1 Inch mm	W4 Inch mm	T2 Inch mm	lbs
36 12 130		5 1/4 130		mirror polished	multi-component grips	-	29/32 23.0	15/32 12.0	3/8 9.5	7/32 5.5	15/64 6.0	0.21
36 22 125		5 125		mirror polished	multi-component grips	3/64 1.2	23/32 18.25	29/64 11.5	19/64 7.5	19/64 7.5	7/64 2.6	0.21
36 32 125		5 125		mirror polished	multi-component grips	3/64 1.2	23/32 18.25	29/64 11.5	19/64 7.5	19/64 7.5	5/32 4.0	0.21

Gripping Pliers
for precision mechanics
DIN ISO 9655

37

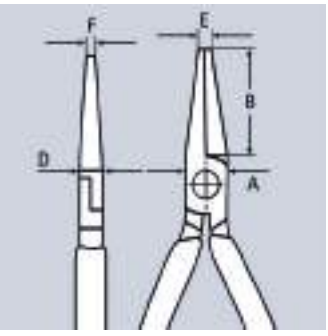
- precision pliers for ultra fine assembly work, e.g. in electronics and fine mechanics
- for gripping, holding, bending and adjusting
- smooth gripping surfaces and edges
- lap joint
- high-grade special tool steel; forged, oil-hardened

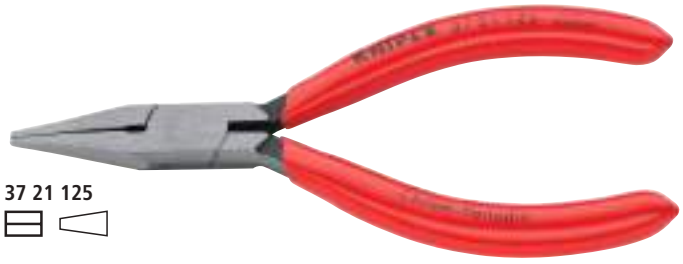
Style 1
Flat, wide jaws

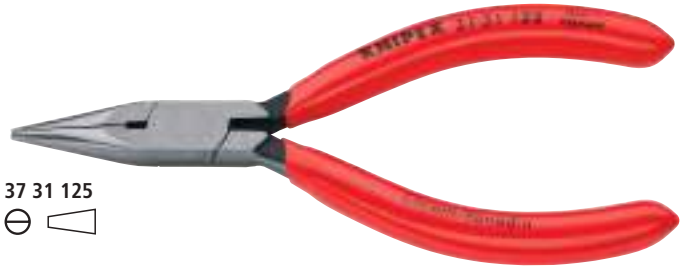
Style 2
Flat, concave and pointed jaws

Style 3
Half-round jaws

Style 4
Round, pointed jaws to bend wire loops







Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Style	Dimensions B Inch mm	A Inch mm	D Inch mm	E Inch mm	F Inch mm	lbs
37 11 125		5 125		black atramentized	polished	plastic coated	1	1 1/16 27.0	31/64 12.5	9/32 7.0	5/64 2.0	7/32 5.5	0.17
37 21 125		5 125		black atramentized	polished	plastic coated	2	1 1/16 27.0	31/64 12.5	9/32 7.0	5/64 2.0	5/64 2.0	0.16
37 31 125		5 125		black atramentized	polished	plastic coated	3	1 1/16 27.0	31/64 12.5	9/32 7.0	5/64 2.0	1/16 1.6	0.16
37 41 125		5 125		black atramentized	polished	plastic coated	4	1 1/16 27.0	37/64 14.5	5/16 8.0	5/64 2.0	3/64 1.0	0.17

Mechanics' Pliers
DIN ISO 5745

38

> high-strength jaws and tips bend and snap back into place
> cross-hatched gripping surfaces, knurled
> vanadium electric steel; forged, oil-hardened

Style 1
Long, half-round jaws; serrated gripping surfaces

Style 2
40° angled jaws

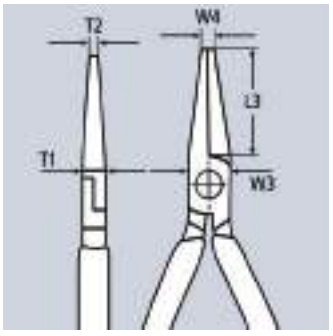
Style 3
Curved tips

Style 4
Long, trapezoidal jaws; serrated gripping surfaces

Style 5
70° angled jaws; suitable for pulling cotter pins and for hard to reach areas

Style 6
Double bent jaws

Style 7
45° angled, half-round jaws; suitable for gripping spark plugs and round components



38 11 200

38 21 200
40°

38 31 200

38 41 190

38 71 200
70°

38 81 200 A

38 81 200 B

38 91 200
45°

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Style	Dimensions L3 Inch mm	W3 Inch mm	T1 Inch mm	W4 Inch mm	T2 Inch mm	⚖ lbs
38 11 200		8 200		black atramentized	polished	plastic coated	1	2 7/8 73.0	11/16 17.5	3/8 9.5	1/8 3.0	3/32 2.5	0.40
38 21 200		8 200	40°	black atramentized	polished	plastic coated	2	2 7/8 73.0	11/16 17.5	3/8 9.5	1/8 3.0	3/32 2.5	0.39
38 31 200		8 200		black atramentized	polished	plastic coated	3	2 7/8 73.0	11/16 17.5	3/8 9.5	1/8 3.0	3/32 2.5	0.39
38 41 190		7 1/2 190		black atramentized	polished	plastic coated	4	1 31/32 50.0	45/64 18.0	5/16 8.0	5/32 4.0	5/16 8.0	0.33
38 71 200		8 200	70°	black atramentized	polished	plastic coated	5	2 7/8 73.0	11/16 17.5	3/8 9.5	1/8 3.0	5/64 2.0	0.40
38 81 200 A		8 200		black atramentized	polished	plastic coated	6	2 3/4 69.0	45/64 18.0	3/8 9.5	1/8 3.0	3/32 2.5	0.39
38 81 200 B		8 200		black atramentized	polished	plastic coated	6	2 3/64 62.0	45/64 18.0	3/8 9.5	1/8 3.0	3/32 2.5	0.39
38 91 200		8 200	45°	black atramentized	polished	plastic coated	7	2 7/8 73.0	11/16 17.5	3/8 9.5	-	3/32 2.5	0.39

Universal Grip Pliers

- tightly holds round or flat material
- heavy-duty
- adjustment screw and release lever for easy use
- one-handed operation
- high clamping pressure due to toggle lever action
- pliers body: rolled steel, high-strength
- gripping jaws: chrome vanadium electric steel; forged

40 14 250
With pivoting bottom jaw that automatically adjusts to the workpiece no matter the shape

40 04 250

40 14 250

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm		○ Inch mm	⬡ Inch mm	⚖ lbs
40 04 180		7 1/4 180		1 3/8 35	1 1/4 32	0.82
40 04 250		10 250		1 3/8 35	1 1/4 32	1.22
40 14 250		10 250		1 11/16 43	1 25/32 45	1.35

Grip Pliers

41

- tightly holds round or flat material
- heavy-duty
- adjustment screw and release lever for easy use
- one-handed operation
- high clamping pressure due to toggle lever action
- pliers body: rolled steel, high-strength
- gripping jaws: chrome vanadium electric steel; forged

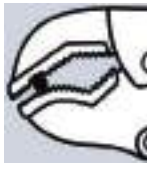
Style 0
Jaws for round workpieces, with wire cutter

Style 1
Jaws with double prism for round, section and flat material

Style 2
Straight jaws for flat material

Style 3
Long Nose Grip Pliers, narrow, long jaws

Style 4
Long Nose Grip Pliers, narrow long jaws very suitable for areas that are difficult to reach. Non-serrated gripping area for pinching off hoses



41 04 250

41 14 250

41 24 225

41 34 165

41 44 200
70°

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm		Pliers	Style	○ Inch mm	⬡ Inch mm	⚖ lbs
41 04 180		7 1/4 180		bright zinc plated	0	1 3/16 30	1 3/16 30	0.82
41 04 250		10 250			0	1 37/64 40	1 3/16 30	1.23
41 04 300		12 300			0	2 9/16 65	1 11/32 34	2.08
41 14 250		10 250		bright zinc plated	1	1 27/64 36	1 27/64 36	1.29
41 24 225		9 225		bright zinc plated	2	1 25	1 3/16 30	1.16
41 34 165		6 1/2 165		bright zinc plated	3	13/16 20	15/16 24	0.42
41 44 200		8 200	70°	bright zinc plated	4	13/16 20	1 3/16 30	0.88

Welding Grip Pliers

42

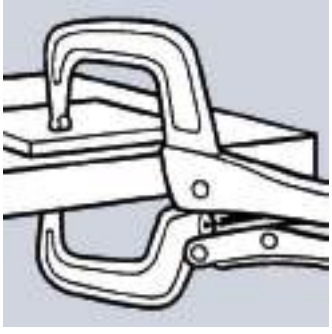
- for gripping, clamping and holding of diverse profiles
- heavy-duty
- with adjustment screw and release lever
- one-handed operation
- high clamping pressure due to toggle lever action
- pliers body: rolled steel, high-strength

42 14 280
Heat resistant malleable cast iron jaws; section or flat material items lying side by side are held securely during welding; also for section material with vertical webs up to 1" (25 mm) height

42 24 280
Heat resistant malleable cast iron jaws; round or tubular material items lying centrally side by side are held securely during welding

42 34 280
Gripping jaws made of chrome vanadium steel, drop forged; clamp cumbersome workpieces and sections with high webs up to 1 37/64" (40 mm)

42 44 280
Pivoting jaws; gripping jaws made of chrome vanadium steel, drop forged; clamp and balance bulky work components and profiles with high ridges up to 1 37/64" (40 mm)



42 14 280

42 24 280

42 34 280

42 44 280

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm	Pliers	○ Inch mm	□ Inch mm	⚖ lbs
42 14 280		11 280	bright zinc plated	1 3/16 - 2 9/16 30-65	-	2.04
42 24 280		11 280	bright zinc plated	25/64 - 2 3/4 10-70	-	2.02
42 34 280		11 280	bright zinc plated	-	3 1/2 90	1.53
42 44 280		11 280	bright zinc plated	-	3 1/2 90	1.65

Circlip Pliers
for large internal circlips

44

- for assembling snap rings into bores within the range of 4 51/64" – 16" (122-400 mm) dia.
- with locking device, can be released without completing cycle
- with replaceable tips made of tempered steel
- pliers body: rolled steel, high-strength
- tips: special tool steel; oil-hardened

Style 1
Straight tips

Style 2
90° angled tips

44 10 J6

44 20 J61

Product Number	Packaging	↔ Inch mm		Pliers	Style	Size of bore Ø Inch Ø mm	Tips Ø Inch Ø mm	⚖ lbs
44 10 J5		22 29/64 570		black powder-coated	1	4 51/64 - 12 122 - 300	9/64 3.5	3.88
44 10 J6		22 3/4 580			1	9 59/64 - 16 252 - 400	11/64 4.5	3.88
44 20 J51		23 1/4 590	90°	black powder-coated	2	4 51/64 - 12 122 - 300	9/64 3.5	4.00
44 20 J61		23 1/2 600	90°		2	9 59/64 - 16 252 - 400	11/64 4.5	4.02

44 19 J5	1 pair of spare tips for 44 10 J5
44 19 J6	1 pair of spare tips for 44 10 J6
44 29 J51	1 pair of spare tips for 44 20 J51
44 29 J61	1 pair of spare tips for 44 20 J61

Circlip Pliers
for large external circlips

46

- for assembling snap rings on shafts, ranging from 4 51/64" – 16" (122 – 400 mm) dia.
- with locking device, can be released without completing cycle
- with replaceable tips made of tempered steel
- pliers body: rolled steel; high-strength
- tips: special tool steel; oil-hardened

Style 1
Straight tips

Style 2
90° angled tips

46 10 A5

46 20 A61

Product Number	Packaging	↔ Inch mm		Pliers	Style	Size of shaft Ø Inch Ø mm	Tips Ø Inch Ø mm	⚖ lbs
46 10 A5		22 560		black powder-coated	1	4 51/64 - 12 122 - 300	9/64 3.5	3.91
46 10 A6		22 29/64 570			1	9 59/64 - 16 252 - 400	11/64 4.5	3.96
46 20 A51		22 29/64 570	90°	black powder-coated	2	4 51/64 - 12 122 - 300	9/64 3.5	4.06
46 20 A61		22 3/4 580	90°		2	9 59/64 - 16 252 - 400	11/64 4.5	4.11

46 19 A5	1 pair of spare tips for 46 10 A5
46 19 A6	1 pair of spare tips for 46 10 A6
46 29 A51	1 pair of spare tips for 46 20 A51
46 29 A61	1 pair of spare tips for 46 20 A61

Circlip Pliers
for internal circlips in bore holes

44

- for fitting snap rings into bores, ranging from 5/16" to 5 1/2" (8 – 140 mm) dia.
- solid style, forged
- non-slip, solid tips
- pliers body and tips: chrome vanadium steel; forged, oil-hardened

44 11 J2

44 21 J21
90°

44 31 J22
45°

Style 1
Straight tips

Style 2
90° angled tips

Style 3
45° angled tips

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Style	Size of bore Ø Inch Ø mm	Tips Ø Inch Ø mm	⚖ lbs
44 11 J0	X	5 1/2 140		black atramentized	polished	plastic coated	1	5/16 - 1/2 8 - 13	1/32 0.9	0.20
44 11 J1	X	5 1/2 140					1	15/32 - 1 12 - 25	3/64 1.3	0.20
44 11 J2	X	7 1/4 180					1	3/4 - 3/64 19 - 60	5/64 1.8	0.30
44 11 J3	X	9 225					1	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.43
44 11 J4	X	12 1/2 320					1	3 11/32 - 5 1/2 85 - 140	1/8 3.2	1.03
44 21 J01	X	5 1/8 130		black atramentized	polished	plastic coated	2	5/16 - 1/2 8 - 13	1/32 0.9	0.19
44 21 J11	X	5 1/8 130					2	15/32 - 1 12 - 25	3/64 1.3	0.19
44 21 J21	X	6 3/4 170	90°				2	3/4 - 2 3/64 19 - 60	5/64 1.8	0.31
44 21 J31	X	8 1/2 215					2	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.43
44 21 J41	X	12 300					2	3 11/32 - 5 1/2 85 - 140	1/8 3.2	1.02
44 31 J02	X	5 1/2 140		black atramentized	polished	plastic coated	3	5/16 - 1/2 8 - 13	1/32 0.9	0.20
44 31 J12	X	5 1/2 140					3	15/32 - 1 12 - 25	3/64 1.3	0.20
44 31 J22	X	7 180	45°				3	3/4 - 2 3/64 19 - 60	5/64 1.8	0.31
44 31 J32	X	9 225					3	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.43
44 31 J42	X	12 11/32 310					3	3 11/32 - 5 1/2 85 - 140	1/8 3.2	1.03

Circlip Pliers Sets can be found on pages 197, 199 and 200

Circlip Pliers
for external circlips on shafts

46

- for fitting snap rings on shafts, ranging from 1/8" – 5 1/2" (3 – 140 mm) dia.
- solid style, forged
- non-slip, solid tips
- pliers body and tips: chrome vanadium steel; forged, oil-hardened

46 11 A2

46 21 A21

46 31 A22

Style 1
Straight tips

Style 2
90° angled tips

Style 3
45° angled tips

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Style	Size of shaft Ø Inch Ø mm	Tips Ø Inch Ø mm	⚖ lbs
46 11 A0	X	5 1/2 140					1	1/8 - 25/64 3 - 10	1/32 0.9	0.19
46 11 A1	X	5 1/2 140					1	25/64 - 1 10 - 25	3/64 1.3	0.19
46 11 A2	X	7 1/4 180		black atramentized	polished	plastic coated	1	3/4 - 2 3/64 19 - 60	5/64 1.8	0.30
46 11 A3	X	8 1/4 210					1	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.49
46 11 A4	X	12 1/2 320					1	3 11/32 - 5 1/2 85 - 140	1/8 3.2	1.11
46 21 A01	X	5 125					2	1/8 - 25/64 3 - 10	1/32 0.9	0.19
46 21 A11	X	5 125					2	25/64 - 1 10 - 25	3/64 1.3	0.19
46 21 A21	X	6 3/4 170	90°	black atramentized	polished	plastic coated	2	3/4 - 2 3/64 19 - 60	5/64 1.8	0.29
46 21 A31	X	8 200					2	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.48
46 21 A41	X	12 300					2	3 11/32 - 5 1/2 85 - 140	1/8 3.2	1.12
46 31 A02	X	5 1/2 140					3	1/8 - 25/64 3 - 10	1/32 0.9	0.19
46 31 A12	X	5 1/2 140					3	25/64 - 1 10 - 25	3/64 1.3	0.19
46 31 A22	X	7 1/4 180	45°	black atramentized	polished	plastic coated	3	3/4 - 2 3/64 19 - 60	5/64 1.8	0.30
46 31 A32	X	8 1/4 210					3	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.47
46 31 A42	X	12 11/32 310					3	3 11/32 - 5 1/2 85 - 140	1/8 3.2	1.13

Circlip Pliers Sets can be found on pages 197, 199 and 200

Precision Circlip Pliers
for internal circlips in bore holes

48

With inserted tips for reliable work

Heavy-duty in continuous operation: up to 10 times longer service life than turned tips

- for fitting snap rings into bores, ranging from 5/16" to 5 1/2" (8 – 140 mm) dia.
- bolted joint: precise, zero-backlash operation of pliers
- pliers body: chrome vanadium electric steel; forged, oil-hardened
- inserted tips: spring steel wire, drawn

Style 1
Straight tips

Style 2
90° angled tips

48 11 J2

48 21 J21

High Precision Quality

Easy and reliable assembly: form-fitting inserted and pressed-in tips made of high-density spring steel offer a high level of protection against excessive stress and strain, e.g. when removing stuck rings. The large supporting surfaces and the position of the tips make it more difficult for the rings to fly off.

Precision and durability

High-density spring steel with a score-free surface is used for the tips. This increases the tips' resistance to dynamic and static strain. The tips are 30% more stable than conventional pliers when subjected to one-off overloading while still allowing good accessibility during assembly. Subjected to dynamic strain, the tips' resistance capacity is up to 10 times greater! The tips on the precision circlip pliers are non-detachable!

Sturdy, inserted tips: made from high-density spring steel

Tight fit through compression

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Style	Size of bore Ø Inch Ø mm	Tips Ø Inch Ø mm	⚖ lbs
48 11 J0	X	5 1/2 140		grey atramentized	non-slip plastic coated	1	5/16 - 1/2 8 - 13	1/32 0.9	0.23
48 11 J1	X	5 1/2 140				1	15/32 - 1 12 - 25	3/64 1.3	0.23
48 11 J2	X	7 1/4 180				1	3/4 - 2 3/64 19 - 60	5/64 1.8	0.39
48 11 J3	X	9 225				1	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.59
48 11 J4	X	12 1/2 320				1	3 11/32 - 5 1/2 85 - 140	1/8 3.2	1.24
48 21 J01	X	5 1/8 130		grey atramentized	non-slip plastic coated	2	5/16 - 1/2 8 - 13	1/32 0.9	0.23
48 21 J11	X	5 1/8 130				2	15/32 - 1 12 - 25	3/64 1.3	0.23
48 21 J21	X	6 1/2 165	90°			2	3/4 - 2 3/64 19 - 60	5/64 1.8	0.39
48 21 J31	X	8 1/4 210				2	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.59
48 21 J41	X	12 305				2	3 11/32 - 5 1/2 85 - 140	1/8 3.2	1.24

Precision Circlip Pliers Sets can be found on pages 197, 199 and 200

NEW

NOW with overstretching limiter

For all circlips with a diameter of 5/16" – 3 15/16"

> overexpansion limiter with screw stop prevents overexpansion of circlips

> adjustment using Allen Wrench

Style 3
Straight tips with overstretching limiter
(adjustable using end stop)

Style 4
90° angled tips with overstretching limiter
(adjustable using end stop)

48 31 J2

48 41 J21

KNIPEX Precision Circlip Pliers with overexpansion guard

For the standardized fitting of circlips in the industrial serial production. Particularly manufacturers of sensitive, safety-relevant components (e.g. brakes or gears) highly appreciate the compliance of DIN 471 and 472. The mounting of circlip rings in this case requires pliers with an overexpansion guard or a cone. KNIPEX Circlip Pliers with overexpansion guard meet the requirements and offer a superior durability.

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Style	Size of bore Ø Inch Ø mm	Tips Ø Inch Ø mm	⚖ lbs
48 31 J0		5 1/2 140		grey atramentized	non-slip plastic coated	3	5/16 - 1/2 8 - 13	1/32 0.9	0.23
48 31 J1		5 1/2 140				3	15/32 - 1 12 - 25	3/64 1.3	0.23
48 31 J2		7 1/4 180				3	3/4 - 2 3/64 19 - 60	5/64 1.8	0.39
48 31 J3		9 225				3	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.59
48 41 J01		5 1/8 130		grey atramentized	non-slip plastic coated	4	5/16 - 1/2 8 - 13	1/32 0.9	0.23
48 41 J11		5 1/8 130				4	15/32 - 1 12 - 25	3/64 1.3	0.23
48 41 J21		6 1/2 165				4	3/4 - 2 3/64 19 - 60	5/64 1.8	0.39
48 41 J31		8 1/4 210				4	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.59

Precision Circlip Pliers
to assemble external circlips on shafts

With inserted tips for reliable work

Heavy-duty in continuous operation: up to 10 times longer service life compared to turned tips

- for fitting snap rings on shafts, ranging from 1/8" – 5 1/2" (3 – 140 mm) dia.
- large contact faces on the tips: no distortion of circlips, easy fitting
- bolted joint: precise, zero-backlash operation of pliers
- internal opening spring, protected and captive
- pliers body: chrome vanadium electric steel; forged, oil-hardened
- inserted tips: spring steel wire, drawn

Style 1
Straight tips

Style 2
90° angled tips

49 11 A2

49 21 A21

High Precision Quality

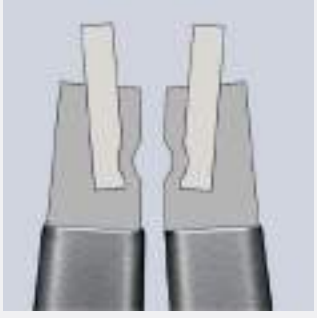
Easy and reliable assembly: form-fitting inserted and pressed-in tips made of high-density spring steel offer a high level of protection against excessive stress and strain, e.g. when removing stuck rings. The large supporting surfaces and the position of the tips make it more difficult for the rings to fly off.

Spring inside the joint: the spring is protected inside the precision bolted joint. It does not hinder work and cannot get dirty or lost

Circlips are held securely: large contact faces and the position of the tips make it difficult for the circlip to fly off

Precision and durability
High-density spring steel with a score-free surface is used for the tips. This increases the tips' resistance to dynamic and static strain. The tips are 30% more stable than conventional pliers when subjected to one-off overloading while still allowing good accessibility during assembly. Subjected to dynamic strain, the tips' resistance capacity is up to 10 times greater! The tips on the precision circlip pliers are non-detachable!

Sturdy, inserted tips: made from high-density spring steel



Tight fit through compression

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Style	Size of shaft Ø Inch Ø mm	Tips Ø Inch Ø mm	⚖ lbs
49 11 A0	X	5 1/2 140		grey atramentized	non-slip plastic coated	1	1/8 - 25/64 3 - 10	1/32 0.9	0.22
49 11 A1	X	5 1/2 140				1	25/64 - 1 10 - 25	3/64 1.3	0.22
49 11 A2	X	7 1/4 180				1	3/4 - 2 3/64 19 - 60	5/64 1.8	0.38
49 11 A3	X	9 225				1	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.60
49 11 A4	X	12 5/8 320				1	3 11/32 - 5 1/2 85 - 140	1/8 3.2	1.32
49 21 A01	X	5 1/8 130		grey atramentized	non-slip plastic coated	2	1/8 - 25/64 3 - 10	1/32 0.9	0.22
49 21 A11	X	5 1/8 130				2	25/64 - 1 10 - 25	3/64 1.3	0.22
49 21 A21	X	6 1/2 165				2	3/4 - 2 3/64 19 - 60	5/64 1.8	0.38
49 21 A31	X	8 1/4 210				2	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.60
49 21 A41	X	12 305				2	3 11/32 - 5 1/2 85 - 140	1/8 3.2	1.32

Precision Circlip Pliers Sets can be found on pages 197, 199 and 200

NEW

NOW with overstretching limiter
For all circlips with a diameter of 5/16" – 3 15/16"

> overexpansion limiter with screw stop prevents overexpansion of circlips

> adjustment using Allen Wrench

Style 3
Straight tips with overexpansion limiter (adjustable using end stop)

Style 4
90° angled tips with overexpansion limiter (adjustable using end stop)

Style 3 / style 4: with adjustable restricted opening

49 31 A0

49 31 A2

KNIPEX Precision Circlip Pliers with overexpansion guard
For the standardized fitting of circlips in the industrial serial production. Particularly manufacturers of sensitive, safety-relevant components (e.g. brakes or gears) highly appreciate the compliance of DIN 471 and 472. The mounting of circlip rings in this case requires pliers with an overexpansion guard or a cone. KNIPEX Circlip Pliers with overexpansion guard meet the requirements and offer a superior durability.

49 41 A11

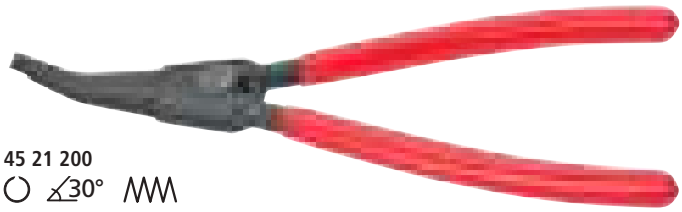
Product Number	Packaging	↔ Inch mm		Pliers	Handles	Style	Size of shaft Ø Inch Ø mm	Tips Ø Inch Ø mm	⚖ lbs
49 31 A0		5 1/2 140		grey atramentized	non-slip plastic coated	3	1/8 - 25/64 3 - 10	1/32 0.9	0.23
49 31 A1		5 1/2 140				3	25/64 - 1 10 - 25	3/64 1.3	0.22
49 31 A2		7 1/4 180				3	3/4 - 2 3/64 19 - 60	5/64 1.8	0.38
49 31 A3		9 225				3	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.60
49 41 A01		5 1/8 130	90°	grey atramentized	non-slip plastic coated	4	1/8 - 25/64 3 - 10	1/32 0.9	0.23
49 41 A11		5 1/8 130				4	25/64 - 1 10 - 25	3/64 1.3	0.22
49 41 A21		6 1/2 165				4	3/4 - 2 3/64 19 - 60	5/64 1.8	0.38
49 41 A31		8 1/4 210				4	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.60

Special Retaining Ring Pliers
for retaining rings on shafts
DIN ISO 5743

45

- for fitting horseshoe-shaped spring retaining rings and circlips without grip holes
- for shaft retaining devices
- with opening spring
- chrome vanadium electric steel; forged, oil-hardened

45 10 170



45 21 200

45 10 170
For retaining rings with a minimum ring split gap of 9/64" (3.6 mm)

45 21 200
Angled jaws with centering hole; for snap rings larger than 15/32" (12.0 mm) dia., e. g. for securing drive shaft in the gearbox of a motor vehicle; minimum ring split gap of the rings 3/32" (2.2 mm)

45 10 170

45 21 200

45 21 200

Product Number	Packaging	↔ Inch mm		Pliers	Handles	⚖ lbs
45 10 170		6 3/4 170		burnished	burnished	0.34
45 21 200		8 200	30°	burnished	plastic coated	0.41

Circlip Pliers
for grip rings on shafts
DIN ISO 5743

46

- for fitting grip rings on shafts ranging from 1/16" – 1 3/16" (1.5 – 30 mm) dia.
- includes opening spring for easy repetitive work
- solid style, forged
- non-slip, solid tips
- pliers body and tips: chrome vanadium steel; forged, oil-hardened

46 11 G0

46 11 G0
Adjustable stop screw to prevent overstretching, for rings from 1/16" - 1 5/32" (1.5 - 4.0 mm) dia.

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Size of shaft Ø Inch Ø mm	Tips Ø Inch Ø mm	⚖ lbs
46 11 G0		5 1/2 140		black atramentized	polished	non-slip plastic coated	1/16 - 5/32 1.5 - 4.0	1/32 0.9	0.19
46 11 G1		5 1/2 140		black atramentized	polished	non-slip plastic coated	5/32 - 9/32 4.0 - 7.0	3/64 1.3	0.19
46 11 G2		5 1/2 140					13/64 - 1/2 5.0 - 13.0	5/64 1.8	0.19
46 11 G3		5 1/2 140					35/64 - 45/64 14.0 - 18.0	3/32 2.3	0.19
46 11 G4		7 1/4 180					25/32 - 1 3/16 20.0 - 30.0	1/8 3.2	0.30

Circlip Tool
for internal and external circlips

46

- universal usage for large circlips with nominal diameters of 16" – 39 3/8" (400 – 1000 mm)
- reliable opening and closing of the circlips and holding by self-locking precision spindle drive
- for fitting and removing circlips in one operation
- circlips are securely held due to short, direct attachment
- replaceable tips with 15/64" (6 mm) and 23/64" (9 mm) diameters, for perfect adaption to the actuation bores in the circlips
- optional operation with hexagonal key, ratchet wrench or cordless screwdriver
- areas of application e.g. wind turbines, tidal power stations, generator construction, hydropower stations, large machine construction (rolling mills, presses), shipbuilding, aerospace – wherever very high forces and torques are transmitted with large shafts and bearings
- tip material: chrome vanadium electric steel

46 10 100

Manually operable

Machine operable

Replaceable inserts for internal and external circlips

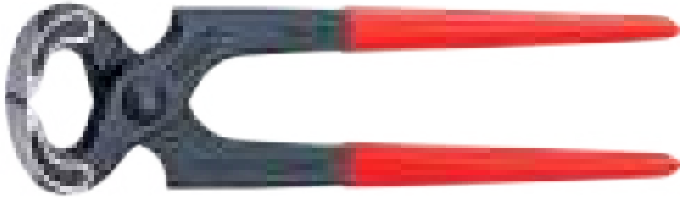
Product Number	Packaging		Size of bore Ø Inch Ø mm	Size of shaft Ø Inch Ø mm	⚖ lbs
46 10 100	Plastic case with foam insert		16 - 39 3/8 400 - 1000	16 - 39 3/8 400 - 1000	4.75

Carpenters' Pincers
DIN ISO 9243

50

- heavy-duty
- preferred by tradespeople
- wear-resistant
- cutting edge hardness (approx. 60 HRC)
- special tool steel; forged, oil-hardened

50 00 210



50 01 225

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◑ Ø Inch Ø mm	⚖ lbs
50 00 160		6 1/4 160		black atramentized	polished	black atramentized	5/64 1.8	0.49
50 00 180		7 180					5/64 2.0	0.70
50 00 210		8 1/4 210					3/32 2.2	0.94
50 00 250		10 250					3/32 2.2	1.27
50 00 300		12 300					3/32 2.4	1.87
50 01 160		6 1/4 160		black atramentized	polished	plastic coated	5/64 1.8	0.53
50 01 180		7 1/4 180					5/64 2.0	0.73
50 01 210		8 1/4 210					3/32 2.2	0.98
50 01 225		9 225					3/32 2.2	1.34
50 01 250		10 250					3/32 2.2	1.29
50 01 300		12 300					3/32 2.4	1.99

Carpenters' Pincers
DIN ISO 9243

51

> with striking face for driving in nails
> cutting edge hardness (approx. 60 HRC)
> special tool steel; forged, multi stage oil-hardened

51 01 210

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	⚖ lbs
51 01 210		8 1/4 210		black atramentized	polished	plastic coated	1.00

Farriers' Pincers
Break-off Pliers for vehicle bodywork
DIN ISO 5743

55

> the ideal pliers for the farrier
> with small head and reversing groove
> suitable for dismantling work in vehicle body workshops
> cutting edge hardness (approx. 59 HRC)
> special tool steel; forged, multi stage oil-hardened

55 00 300

Product Number	Packaging	↔ Inch mm		Pliers	Head	Head width Inch mm	⚖ lbs
55 00 300		12 300		black atramentized	polished	25/32 20.0	1.73

Concreters' Nippers

(tower pincers, steel fixers' nippers)
DIN ISO 9242

99 0

- to twist and cut wire in one operation: fast, reliable and economical
- precision and long service life make these the most widely purchased concreters´ nippers in the world
- induction hardened cutting edges, cutting edge hardness (approx. 61 HRC)
- high-grade special tool steel; forged, multi stage oil-hardened

99 00 220 K12
With 15/32" (12 mm) head, particularly suitable for tile paving work

99 00 200

99 00 280

99 00 300

99 00 220 K12

99 01 220

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◑ Ø Inch Ø mm	Cutting capacities ◕ Ø Inch Ø mm	⚖ lbs
99 00 200		8 200		black atramentized	polished		5/64 1.8	1/16 1.4	0.51
99 00 220		8 3/4 220					3/32 2.4	1/16 1.6	0.69
99 00 220 K12		8 3/4 220		black atramentized	polished		3/32 2.4	1/16 1.6	0.69
99 00 250	X	10 250		black atramentized	polished		3/32 2.4	1/16 1.6	0.88
99 00 280		11 280					7/64 2.8	5/64 1.8	1.00
99 00 300		12 300					1/8 3.1	5/64 1.8	1.12
99 01 200	X	8 200		black atramentized	polished	plastic coated	5/64 1.8	1/16 1.4	0.55
99 01 220	X	8 3/4 220					3/32 2.4	1/16 1.6	0.74
99 01 250	X	10 250					3/32 2.4	1/16 1.6	0.95
99 01 280		11 280					7/64 2.8	5/64 1.8	1.10
99 01 300		12 300					1/8 3.1	5/64 1.8	1.21

High Leverage Concreters' Nippers

with high lever transmission
DIN ISO 9242

99
1

25% less effort required compared to conventional concreters' nippers of the same size

Extra-slim form for tying deep mounted steel rods

- for use when working with concrete steel and binding wire
- twists and cuts wire in one operation
- high leverage joint minimizes strain when working with thick binding wires
- high leverage design reduces strain on tendons and muscles
- cutting edge hardness (approx. 61 HRC)
- high-grade special tool steel; forged, multi stage oil-hardened

99 10 250

99 10 300

99 11 300

99 14 250

99 14 300

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◑ Ø Inch Ø mm	Cutting capacities ◕ Ø Inch Ø mm	Head width Inch mm	⚖ lbs
99 10 250		10 250		black atramentized	polished	-	1/8 3.3	5/64 1.8	1 25.0	0.77
99 10 300	X	12 300					5/32 3.8	5/64 2.0	1 25.0	1.11
99 11 250		10 250		black atramentized	polished	plastic coated	1/8 3.3	5/64 1.8	1 25.0	0.77
99 11 300		12 300					5/32 3.8	5/64 2.0	1 25.0	1.18
99 14 250		10 250		bright zinc plated	-	-	1/8 3.3	5/64 1.8	1 25.0	0.77
99 14 300		12 300					5/32 3.8	5/64 2.0	1 25.0	1.10

Bolt End Cutting Nippers
high lever transmission
DIN ISO 5743

61

Powerful, compact, comfortable

- features a greater cutting capacity and requires less effort than conventional end cutting nippers
- cuts nails, small bolts and all wires including piano wire
- exceptional cutting capacity due to high leverage joint
- cutting edge hardness (approx. 64 HRC)
- vanadium steel; forged, multi stage oil-hardened

61 02 200
Slim two-color multi-component sleeves for better handling and easier transport; large contact surface on the handles for better allotment of pressure and more comfort at work

61 01 200
5°

61 02 200
5°

High cutting performance: also for piano wire

Perfect for working with fencing

Almost flush cutting of bolts, nails, etc.

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	● Ø Inch Ø mm	⚖ lbs
61 01 200	X	8 200	5°	black atramentized	polished	plastic coated	3/64 - 15/64 1.0 - 6.0	5/32 4.0	9/64 3.5	1/8 3.0	0.96
61 02 200		8 200	5°	black atramentized	polished	slim multi-component grips	3/64 - 15/64 1.0 - 6.0	5/32 4.0	9/64 3.5	1/8 3.0	1.03

High Leverage End Cutting Nippers
DIN ISO 5748

67

- cutting edges for soft, hard and piano wire
- high cutting capacity with minimal effort due to optimum coordination of cutting edge angle and transmission ratio
- cutting edge hardness (approx. 64 HRC)
- chrome vanadium heavy-duty steel; forged, multi stage oil-hardened

67 01 200

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	● Ø Inch Ø mm	⚖ lbs
67 01 140		5 1/2 140		black atramentized	polished	plastic coated	5/32 4.0	1/8 3.1	5/64 2.0	1/16 1.5	0.34
67 01 160		6 1/4 160					11/64 4.5	9/16 3.4	3/32 2.5	5/64 2.0	0.52
67 01 200	X	8 200					13/64 5.0	5/32 3.8	1/8 3.0	3/32 2.5	0.70

End Cutting Nippers 68

Head shape provides optimized movement when tightening steel mesh knots during reinforced concrete work

- cutting edges for soft and hard wire
- also suitable for twisting and cutting binding wire
- cutting edges are induction hardened; cutting edge hardness (approx. 61 HRC)
- high-grade special tool steel; forged, multi stage oil-hardened

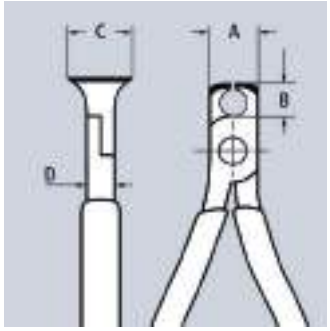
68 01 180

68 01 280

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	⚖ lbs
68 01 160		6 1/4 160		black atramentized	polished	plastic coated	5/32 4.0	7/64 2.8	3/32 2.3	0.45
68 01 180		7 1/4 180					5/32 4.0	1/8 3.2	3/32 2.5	0.66
68 01 200	X	8 200					5/32 4.0	9/64 3.5	7/64 2.8	0.74
68 01 280	X	11 280					11/64 4.5	5/32 4.0	1/8 3.2	1.03

End Cutting Nippers 69

for mechanics
DIN ISO 5748



- cutting edges for soft, hard and piano wire; also suitable for thin copper wires
- lap joint
- cutting edge hardness (approx. 64 HRC)
- chrome vanadium heavy-duty steel; forged, multi stage oil-hardened

69 01 130

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	● Ø Inch Ø mm	Dimensions A Inch mm	B Inch mm	D Inch mm	C Inch mm	⚖ lbs
69 01 130		5 1/8 130		black atramentized	polished	plastic coated	1/64 - 5/64 0.4 - 2.0	3/64 1.3	3/64 1.0	1/32 0.8	5/8 16	19/64 7.5	25/64 10	25/32 20	0.25
69 03 130		5 1/8 130		chrome plated	chrome	plastic coated	1/64 - 5/64 0.4 - 2.0	3/64 1.3	3/64 1.0	1/32 0.8	5/8 16	19/64 7.5	25/64 10	25/32 20	0.25

CoBolt®

Exceptional cutting performance

- induction hardened edges cut soft, hard and piano wire
- cuts material like bolts, nails, rivets, etc. up to 1/4" (6.0 mm) dia.
- exceptional cutting performance with minimum effort because of new lever action design
- cutting edge hardness (approx. 64 HRC)
- chrome vanadium heavy-duty steel; forged, multi stage oil-hardened

60 % less effort required

compared to conventional high leverage diagonal cutters.
The lever-action mechanism ensures an extremely favorable lever ratio with very little friction. The cutting force is about 20 times higher than the handforce applied.

Micro-structured cutting edges allow easy cutting of large cross-sections

Gripping surface below the joint for gripping and pulling wires with a diameter from 3/64" (1 mm)

71 12 200
Opening spring and locking device are integrated in the handles for comfortable work and protected transport

71 02 200 T BKA*
Pliers with tether attachment point for tool drop protection system

Micro-structured cutting edges allow easy cutting of large cross-sections

With gripping surface below the joint for gripping and pulling wires with a diameter from 3/64"

Opening spring and locking device are integrated in the handles for comfortable work and protected transport

71 01 160: High cutting force with a length of just 6 1/4" – ideal for small hands

71 01 160

71 01 200

71 02 200

71 12 200

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	● Ø Inch Ø mm	⚖ lbs
71 01 160	X	6 1/4 160		black atramentized	plastic coated	13/64 5.3	11/64 4.4	1/8 3.2	1/8 3.0	0.43
71 01 200	X	8 200		black atramentized	plastic coated	1/4 6.0	13/64 5.2	5/32 4.0	9/64 3.6	0.74
71 02 200	X	8 200		black atramentized	slim multi-component grips	1/4 6.0	13/64 5.2	5/32 4.0	9/64 3.6	0.81
71 02 200 T BKA	X	8 200		black atramentized	slim multi-component grips, integrated tether attachment point	1/4 6.0	13/64 5.2	5/32 4.0	9/64 3.6	0.83
71 12 200	X	8 200		black atramentized	slim multi-component grips	1/4 6.0	13/64 5.2	5/32 4.0	9/64 3.6	0.84

*Learn more about our tethered tool system on pages 207-211

The recess in the blade allows easier cutting of thicker wires, e.g. for anchor bolts in false ceilings

Gripping surface below the joint for gripping and pulling wires with a diameter from 3/64" (1 mm)

71 32 200 / 71 32 200 T BKA*
Opening spring and locking device are integrated in the handles for comfortable work and protected transport

71 32 200 T BKA*
Pliers with tether attachment point for tool drop protection system

71 31 200

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	lbs
71 31 200	X	8 200		black atramentized	plastic coated	1/4 6.0	13/64 5.2	5/32 4.0	9/64 3.6	0.73
71 32 200		8 200		black atramentized	slim multi-component grips	1/4 6.0	13/64 5.2	5/32 4.0	9/64 3.6	0.82
71 32 200 T BKA	X	8 200		black atramentized	slim multi-component grips, integrated tether attachment point	1/4 6.0	13/64 5.2	5/32 4.0	9/64 3.6	0.84

20° angled head with single-sided joint bar and diagonal cutting edge for flush cutting; with space for gripping

71 22 200 / 71 22 200 T BKA*
Opening spring and locking device are integrated in the handles for comfortable work and protected transport

71 22 200 T BKA*
Pliers with tether attachment point for tool drop protection system

71 41 200
The recess in the blade allows easier cutting of thicker wires, e.g. for anchor bolts in false ceilings

71 21 200
∠20°

71 22 200
∠20°

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	lbs
71 21 200	X	8 200	∠20°	black atramentized	plastic coated	1/4 6.0	13/64 5.2	5/32 4.0	9/64 3.6	0.73
71 22 200	X	8 200	∠20°	black atramentized	slim multi-component grips	1/4 6.0	13/64 5.2	5/32 4.0	9/64 3.6	0.82
71 22 200 T BKA	X	8 200	∠20°	black atramentized	slim multi-component grips, integrated tether attachment point	1/4 6.0	13/64 5.2	5/32 4.0	9/64 3.6	0.83
71 41 200	X	8 200	∠20°	black atramentized	plastic coated	1/4 6.0	13/64 5.2	5/32 4.0	9/64 3.6	0.73

KNIPEX CoBolt® XL
Compact Bolt Cutter

71

The compact bolt cutters from KNIPEX are now available with longer handles for one and two-handed operation.

Up to a 40-fold increase of manual force

For powerful cutting of larger diameters as well as very hard materials

Two-handed operation for maximum cutting force

- 60% less effort required compared to high leverage diagonal cutters of the same size
- 40-fold increase of manual force due to special joint design
- gripping surface below the joint for gripping and pulling wires with a diameter from 3/64" (1 mm)
- induction hardened precision blades: cutting edge hardness (approx. 64 HRC)
- chrome vanadium heavy-duty steel; forged, multi stage oil-hardened

71 01 250
Straight blades

71 31 250
Blades with notch for easier cutting of larger diameters due to a better leverage close to the fulcrum

71 01 250

71 31 250

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Cutting capacities ◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	● Ø Inch Ø mm	⚖ lbs
71 01 250	X	10 250		black atramentized	plastic coated	7/32 5.6	5/32 4.0	5/32 3.8	1.03
71 31 250	X	10 250		black atramentized	plastic coated	1/4 6.0	11/64 4.3	11/64 4.2	1.03

KNIPEX CoBolt® "Fencing"
Compact Bolt Cutter

71

- the CoBolt® with reduced cutting edge hardness to allow more pressure on the sides of the cutting edges (e.g. for making fences)
- with precision cutting edges for soft and hard wire
- cutting capacity: max. Ø 5/32" for hard wire (up to 1900 n/mm² / 48 HRC)
- cuts material like bolts, nails, rivets, etc. up to 13/64" (5.2 mm) dia.
- exceptional cutting performance with minimum effort because of new lever action design
- induction hardened cutting edges (approx. 62 HRC)
- chrome vanadium heavy-duty steel; forged, oil-hardened

71 31 200 R
The recess in the blade allows easier cutting of thicker wires, e.g. for false ceilings

71 01 200 R

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	⚖ lbs
71 01 200 R	X	8 200		black atramentized	plastic coated	15/64 6.0	13/64 5.2	5/32 4.0	0.74
71 31 200 R	X	8 200		black atramentized	plastic coated	15/64 6.0	13/64 5.2	5/32 4.0	0.74

Bolt Cutters

71
72

- cutting capacity of steel up to 48 HRC
- robust cutting edges with a hardness of (approx. 62 HRC)
- forged-on stopper with comfortable shock absorber
- good access due to very flat construction of head and joint area
- ergonomically angled handles to minimize effort
- sturdy, two-color dual component handles won't slip
- precise adjustment (12 positions) by cam bolt
- high cutting performance with minimum effort due to optimum coordination of the cutting edge angle and transmission ratio
- bolted cutter head, replaceable
- blade: chrome vanadium heavy-duty steel; forged, multi stage oil-hardened
- joint: special tool steel; forged
- handle: steel tube, powder-coated

Forged-on stopper with absorbing inserts: cushions the cutting stroke

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities 19 HRC Ø Inch Ø mm	40 HRC Ø Inch Ø mm	48 HRC Ø Inch Ø mm	lbs
71 72 460		18 1/4 460		grey atramentized	multi-component grips	5 /16 8	15/64 6	13/64 5	4.59
71 72 610		24 610		grey atramentized	multi-component grips	23/64 9	5 /16 8	9/32 7	5.57
71 72 760		30 760		grey atramentized	multi-component grips	7/16 11	23/64 9	5 /16 8	9.40
71 72 910		35 3/4 910		grey atramentized	multi-component grips	1/2 13	25/64 10	23/64 9	10.91

71 79 460	Spare cutter head for 71 72 460 complete with screws
71 79 610	Spare cutter head for 71 72 610 complete with screws
71 79 760	Spare cutter head for 71 72 760 complete with screws
71 79 910	Spare cutter head for 71 72 910 complete with screws

Concrete Mesh Cutter

71
82

The special shape of the mesh cutter head, 71 82 950, enable it to cut structural steel that is lying down flat

- cutting capacity of steel up to 48 HRC hardness
- robust cutting edges are induction hardened, cutting edge hardness (approx. 62 HRC)
- forged-in stopper with comfortable shock-absorber
- good access due to very flat construction of head and joint area
- ergonomically angled handles to minimize effort
- sturdy non-slip two-color dual component handle sleeves
- precise adjustment (12 positions) by eccentric bolt
- high cutting performance with minimum effort due to optimum coordination of the cutting edge angle and transmission ratio
- bolted cutter head, replaceable
- blade: chrome vanadium heavy-duty steel; forged, multi stage oil-hardened
- joint: special tool steel, forged
- handle: steel tube, powder-coated

71 82 950

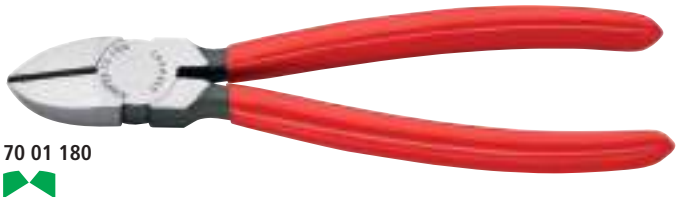
Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities 19 HRC Ø Inch Ø mm	40 HRC Ø Inch Ø mm	48 HRC Ø Inch Ø mm	lbs
71 82 950		41 13/32 950		grey atramentized	multi-component grips	7/16 11	23/64 9	15/64 6	8.95
71 89 950	Spare cutter head for 71 82 950 complete with screws								

Diagonal Cutters
DIN ISO 5749

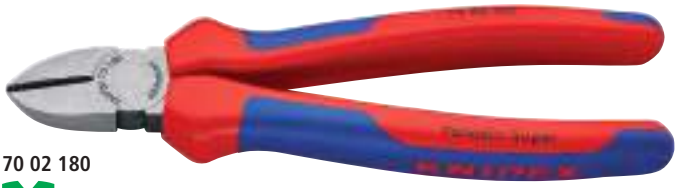
70

> the essential cutting tool for all-around 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, even at the cutting edge tips
> induction hardened cutting edges (approx. 62 HRC)
> narrow head style for use in confined areas
> vanadium steel; forged, multi stage oil-hardened

Clean cutting of thin copper wires, also at the cutting edge tips



70 01 180



70 02 180

70 08 180 SBA
1000 V ASTM

70 11 110

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	⚖ lbs
70 01 110		4 1/4 110		black atramentized	polished3	plastic coated	1/8 3.0	5/64 2.0	3/64 1.2	0.18
70 01 125		5 125					1/8 3.0	3/32 2.3	1/16 1.5	0.18
70 01 140		5 1/2 140					5/32 4.0	3/32 2.5	5/64 1.8	0.28
70 01 180		7 1/4 180					5/32 4.0	1/8 3.0	3/32 2.5	0.44
70 02 125		5 125		black atramentized	polished	multi-component grips	1/8 3.0	3/32 2.3	1/16 1.5	0.26
70 02 140		5 1/2 140					5/32 4.0	3/32 2.5	5/64 1.8	0.35
70 02 180		7 1/4 180					5/32 4.0	1/8 3.0	3/32 2.5	0.57
70 08 180 SBA	X	7 1/4 180	1000 V ASTM	black atramentized	polished	insulated, multi-component handles, ASTM-tested	5/32 4.0	1/8 3.0	3/32 2.5	0.58
70 11 110		4 1/4 110		black atramentized	polished	plastic coated	1/8 3.0	5/64 2.0	3/64 1.2	0.20

Diagonal Cutters
DIN ISO 5749

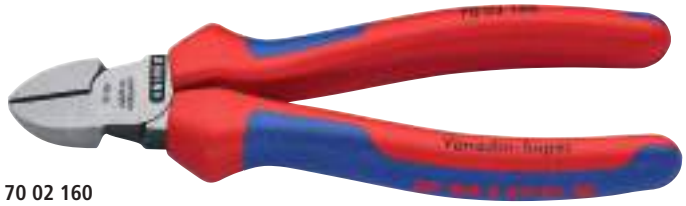
The next generation of the KNIPEX classic, with even better features

20% higher cutting force than the previous model, plus longer cutting edges

High cutting force due to optimum cutting geometry and transmission ratio

- strong precision rivet for even movement and long service life
- induction hardened cutting edges (approx. 62 HRC)
- narrow head with long cutting edges: good access in confined areas
- long tool life and high loading capacity
- the essential diagonal cutters for diverse use
- vanadium steel; forged, multi stage oil-hardened in multiple steps

70 01 160



70 02 160

70 08 160
1000 V ASTM

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	⚖ lbs
70 01 160	X	6 1/4 160		black atramentized	polished	plastic coated	5/32 4.0	1/8 3.0	5/64 2.0	0.40
70 02 160		6 1/4 160		black atramentized	polished	multi-component grips	5/32 4.0	1/8 3.0	5/64 2.0	0.47
70 08 160 SBA	X	6 1/4 160	1000 V ASTM	black atramentized	polished	insulated, multi-component handles, ASTM-tested	5/32 4.0	1/8 3.2	5/64 2.0	0.49
70 26 160		6 1/4 160	1000 V	chrome plated	chrome plated	insulated multi-component grips, VDE-tested	5/32 4.0	1/8 3.0	5/64 2.0	0.51

Flush Cutting Diagonal Pliers for Plastics

DIN ISO 5743

72

> provides a fully flush cut when cutting tie-wraps, plastic and soft metals
> for nearly flush cutting of molded plastic components from sprues
> includes opening spring for easy repetitive work
> vanadium electric steel; forged, oil-hardened

72 01 160
With elongated cutting edges; improved transmission ratio for 25% better cutting performance

72 01 160

72 02 125

72 11 160 ∡45°

72 21 160 ∡85°

Product Number	Packaging	↔ Inch mm		Head	Handles	⚖ lbs
72 01 140		5 1/2 140		polished	plastic coated	0.28
72 01 160	X	6 1/4 160				0.39
72 01 180		7 1/4 180				0.43
72 02 125		5 125		polished	multi-component grips	0.24
72 11 160	X	6 1/4 160	∡45°	polished	plastic coated	0.38
72 21 160		6 1/4 160	∡85°	polished	plastic coated	0.39

Diagonal Cutter for fiber optics

DIN ISO 5743

72 51

> specially developed for cutting fiber optics (glass fiber cables)
> with elongated cutting edges
> cutting edges induction hardened
> includes opening spring for easy repetitive work
> vanadium steel; forged, multi stage oil-hardened

72 51 160

Product Number	Packaging	↔ Inch mm		Head	Handles	⚖ lbs
72 51 160		6 1/4 160		polished	plastic coated	0.38

High Leverage Flush Cutter for soft metal and plastic

72

For easy flush cutting of plastic components and soft metal

- less effort for cutting thicker workpieces due to high leverage design
- space for hands and flush cutting due to 20° angled head with joint bar on one side
- opening spring and locking device are integrated in the handles
- precision cutting edges, induction hardened (approx. 59 HRC) for soft materials
- chrome vanadium electric steel, forged, multi stage oil-hardened

Materials are cut flush due to the almost bevel-free precision cutting edge

View: Back of pliers

Copper busbars are cut cleanly and flush

Ideal for the flush cutting of plastic sprues with large diameters

Product Number	Packaging	↔ Inch mm		Pliers	Handles	◔ Ø Inch Ø mm	⚖ lbs
72 62 200	X	8 200	∡20°	black atramentized	with slim multi-component grips	1/4 6.0	0.83


KNIPEX

KNIPEX X-Cut®

Compact Diagonal Cutters, high lever transmission
DIN ISO 5749

Powerful, light and universal

Cuts fine strands as well as multi-stranded cables and piano wires

- box-joint design: high stability and lightweight
- high cutting performance with minimum effort due to optimum coordination of the cutting edge angle and transmission ratio
- large opening width for thicker cables
- cuts all wires precisely, even fine copper wires
- compact, low weight construction
- double supported joint axis for heavy-duty work
- universal usage in the assembly, maintenance and production
- chrome vanadium heavy-duty steel; forged, multi stage oil-hardened

Box-joint design: high stability and lightweight

73 02 160

73 06 160

1000 V

X-Cut®

40 % less effort required

compared with standard diagonal cutters of the same length.
With double mounted hinged joint.

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	lbs
73 02 160	X	6 1/4 160		black atramentized	polished	multi-component grips	3/16 4.8	5/32 3.8	7/64 2.7	3/32 2.2	15/32 12.0	0.39
73 06 160		6 1/4 160	1000 V	chrome plated	chrome plated	insulated, multi-component grips, VDE-tested	3/16 4.8	5/32 3.8	7/64 2.7	3/32 2.2	15/32 12.0	0.41

KNIPEX TwinForce®

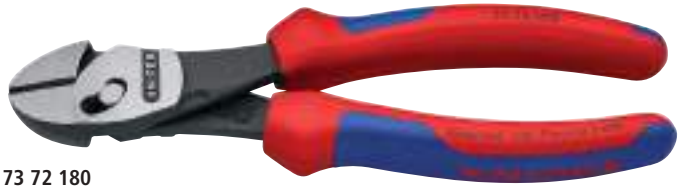
High Leverage Diagonal Cutter
DIN ISO 5749

73

Superior high leverage diagonal cutter with patented double joint

- ideal transmission of force due to double-hinged design
- reliably cuts all types of wire, including steel tape
- for rough or very fine cutting
- for comfortable cutting, repetitive cutting or extremely hard cutting jobs
- high degree of stability and zero backlash due to precisely milled forged-in axle
- chrome vanadium heavy-duty steel; forged, oil-hardened

73 71 180



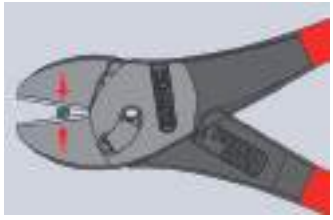
73 72 180

NEW for diagonal cutters:

The option to reapply the tool. The KNIPEX TwinForce® cuts even 5/32" (4 mm) thick wire without great effort when reapplied two or three times. Conventional high leverage diagonal cutters either cannot cut these diameters or only with very great effort.

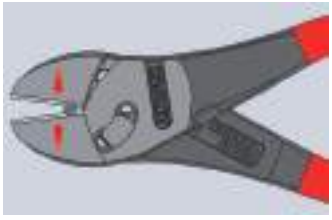
Extremely easy cutting with little strain:

cuts 50% easier than KNIPEX high leverage diagonal cutters of the same size

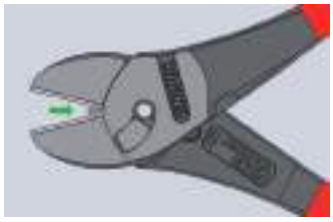


Insert the wires as close to the hinge as possible. In case of cutters with very high transmission, the width of the gap between the cutting edges close to the fulcrum may be less than the thickness of the wire. Wires may slip forward when the cutting starts.

Continue cutting in the same location along the wire. Now cutting is much easier because the wire remains in place closer to the fulcrum.



First make a notch in the wire using the KNIPEX TwinForce® until the required hand force increases considerably. Now open the pliers and slide the wire backwards towards the joint.



You can repeat this process if necessary.

TwinForce®

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	● Ø Inch Ø mm	⚖ lbs
73 71 180	X	7 1/4 180		black atramentized	polished	plastic coated	7/32 5.5	3/16 4.6	1/8 3.2	1/8 3.0	0.56
73 72 180 BK	X	7 1/4 180		black atramentized	polished	multi-component grips	7/32 5.5	3/16 4.6	1/8 3.2	1/8 3.0	0.62

High Leverage Diagonal Cutters
DIN ISO 5749

74

- forged-on axle for heavy-duty work
- for very tough, continuous use
- high cutting performance with minimum effort due to optimum coordination of the cutting edge angle and transmission ratio
- precision cutting edges induction hardened (approx. 64 HRC) cut several types of wire including piano wire
- chrome vanadium heavy-duty steel; forged, multi stage oil-hardened

Style 1
With opening spring; can be activated if required

Style 2
Angled head offers clearance for gripping

10" Length (250 mm)
Suitable for copper conductors up to 16 mm² and aluminum conductors up to 35 mm²

74 02 200 T BKA / 74 02 250 T BKA / 74 22 200 T BKA / 74 22 250 T BKA*
Pliers with integrated tether attachment point for tool drop protection system

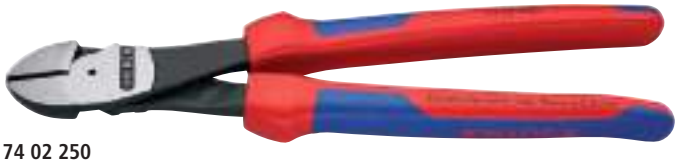
20% less effort required

compared to conventional diagonal cutters of the same length. With forged-on joint axle.

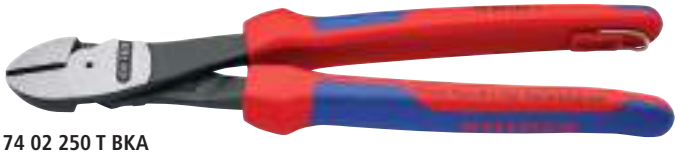
74 12: Opening spring in deactivated position

74 12: Activated opening spring by pressing down with your thumb

74 01 200



74 02 250



74 02 250 T BKA

74 08 200 US
1000 V ASTM

74 12 180

74 21 200
12°

With integrated forged joint axle
for very tough, continuous use

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Style	Cutting capacities ◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	● Ø Inch Ø mm	⚖ lbs
74 01 140		5 1/2 140		black atramentized	polished	plastic coated	-	1/8 3.1	5/64 2.0	1/16 1.5	0.29
74 01 160	X	6 1/4 160					-	9/64 3.4	3/32 2.5	5/64 2.0	0.42
74 01 180	X	7 1/4 180					-	5/32 3.8	7/64 2.7	3/32 2.2	0.53
74 01 200	X	8 200					-	11/64 4.2	1/8 3.0	3/32 2.5	0.58
74 01 250	X	10 250					-	3/16 4.6	9/64 3.5	1/8 3.0	0.90
74 02 140		5 1/2 140		black atramentized	polished	multi-component grips	-	1/8 3.1	5/64 2.0	1/16 1.5	0.35
74 02 160		6 1/4 160					-	9/64 3.4	3/32 2.5	5/64 2.0	0.49
74 02 180		7 1/4 180					-	5/32 3.8	7/64 2.7	3/32 2.2	0.60
74 02 200	X	8 200					-	11/64 4.2	1/8 3.0	3/32 2.5	0.66
74 02 200 T BKA	X	8 200		black atramentized	polished	multi-component grips, integrated tether attachment point	-	11/64 4.2	1/8 3.0	3/32 2.5	0.67
74 02 250	X	10 250		black atramentized	polished	multi-component grips	-	3/16 4.6	9/64 3.5	1/8 3.0	1.00
74 02 250 T BKA	X	10 250		black atramentized	polished	multi-component grips, integrated tether attachment point	-	3/16 4.6	9/64 3.5	1/8 3.0	1.01
74 08 200 US	X	8 200	1000 V ASTM	black atramentized	polished	insulated, multi-component handles, ASTM-tested	-	11/64 4.2	1/8 3.0	3/32 2.5	0.68
74 08 250 US	X	10 250	1000 V ASTM				-	3/16 4.6	9/64 3.5	1/8 3.0	1.04
74 12 160		6 1/4 160		black atramentized	polished	multi-component grips	1	9/64 3.4	3/32 2.5	5/64 2.0	0.48
74 12 180		7 1/4 180					1	5/32 3.8	7/64 2.7	3/32 2.2	0.60
74 21 180		7 1/4 180		black atramentized	polished	plastic coated	2	5/32 3.8	7/64 2.7	3/32 2.2	0.52
74 21 200	X	8 200	12°				2	11/64 4.2	1/8 3.0	3/32 2.5	0.59
74 21 250	X	10 250	12°				2	3/16 4.6	9/64 3.5	1/8 3.0	0.89
74 22 200	X	8 200	12°	black atramentized	polished	multi-component grips	2	11/64 4.2	1/8 3.0	3/32 2.5	0.67
74 22 200 T BKA	X	8 200	12°	black atramentized	polished	multi-component grips, integrated tether attachment point	2	11/64 4.2	1/8 3.0	3/32 2.5	0.68
74 22 250	X	10 250	12°	black atramentized	polished	multi-component grips	2	3/16 4.6	9/64 3.5	1/8 3.0	1.00
74 22 250 T BKA	X	10 250	12°	black atramentized	polished	multi-component grips, integrated tether attachment point	2	3/16 4.6	9/64 3.5	1/8 3.0	1.01

*Learn more about our tethered tool system on pages 207-211

High Leverage Center Cutters
DIN ISO 5743

74
91

Cutting edges in the center of the cutter head

- forged-on axle for heavy-duty cutting
- precision cutting edges for soft, hard and piano wire
- cuts thick wires with less effort than other diagonal cutters of the same length
- cutting edges are in the center of the cutter head
- high cutting performance with minimum effort due to optimum coordination of the cutting edge angle and transmission ratio
- cutting edge hardness (approx. 64 HRC)
- chrome vanadium heavy-duty steel; forged, multi stage oil-hardened

74 91 250

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	lbs
74 91 250	X	10 250		black atramentized	polished	plastic coated	13/64 5.0	13/64 5.0	5/32 3.8	9/64 3.5	0.87

Diagonal Cutters
for electromechanics
DIN ISO 5749

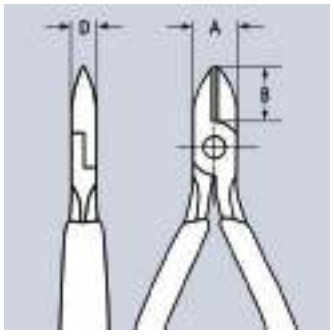
76

- with sharp, precisely aligned cutting edges for soft, hard wire and piano wire
- cutting edge hardness (approx. 63 HRC)
- lap joint
- vanadium steel; forged, multi stage oil-hardened in multiple steps

76 12 125
Low-friction double spring for gentle and even opening

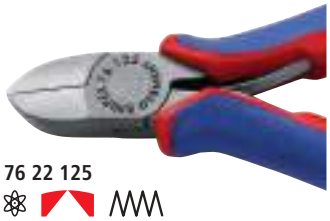
76 22 125
Without bevel for flush cutting of soft wires;
low-friction double spring for gentle and even opening

76 81 125
Particularly tapered head with small bevel for work in confined areas (cable harnesses, multi-stranded wires)



76 01 125

76 12 125



76 22 125

76 81 125

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Dimensions A Inch mm	B Inch mm	D Inch mm	lbs
76 01 125		5 125		black atramentized	polished	plastic coated	1/64 - 1/8 0.4 - 3.0	3/32 2.3	1/16 1.5	1/32 0.6	37/64 14.5	5/8 16.0	23/64 9.0	0.20
76 12 125		5 125		black atramentized	polished	multi-component grips	1/64 - 3/32 0.4 - 2.5	5/64 1.8	3/64 1.0	1/32 0.6	37/64 14.5	5/8 16.0	23/64 9.0	0.25
76 22 125		5 125		black atramentized	polished	multi-component grips	1/64 - 3/32 0.4 - 2.5	-	-	-	37/64 14.5	5/8 16.0	23/64 9.0	0.24
76 81 125		5 125		black atramentized	polished	plastic coated	1/64 - 1/16 0.4 - 1.7	3/64 1.3	1/32 0.8	-	37/64 14.5	5/8 16.0	23/64 9.0	0.19

Electronics Oblique Cutting Nippers
DIN ISO 9654

62 12

- cutting edges for soft and medium hard wire
- without bevel; for flush cutting
- cutting edge hardness (approx. 60 HRC)
- low-friction double spring for gentle and even opening
- precision box-joint
- the polish and a fine film of oil offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- ball bearing steel

62 12 120

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities ◔ Ø Inch Ø mm	Cutting capacities ◑ Ø Inch Ø mm	Dimensions A Inch mm	Dimensions B Inch mm	Dimensions D Inch mm	Dimensions C Inch mm	⚖ lbs
62 12 120		4 3/4 120		polished	multi-component grips	1/64 - 3/64 0.3 - 1.0	1/32 0.7	7/16 11	25/64 10	19/64 7.5	43/64 17	0.21

Electronics End Cutting Nippers
DIN ISO 9654

64

- precision pliers for ultra fine cutting work, e.g. in electronics and fine mechanics
- precision box-joint
- low-friction double spring for gentle and even opening
- the mirror polish and fine film of oil offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- cutting edge hardness (at least 60 HRC)
- ball bearing steel, laser-hardened cutting edges

Style 0
End Cutter, with bevel

Style 2
End Cutter, mini-blade with small bevel

Style 3
Oblique End Cutter, short head, with small bevel, 15° angle

Style 4
Oblique End Cutter, short head, with small bevel, 27° angle

Style 5
Oblique End Cutter, short head, without bevel, for flush cutting, 27° angle

Style 6
Oblique End Cutter, mini-blade with small bevel, 65° angle, made of special tool steel, forged, oil-hardened

Style 7
Oblique End Cutter, mini-blade with small bevel, head with recess, 35° angle, made of special tool steel, forged, oil-hardened

Style 1 / 64 11 115
End Cutter, without bevel

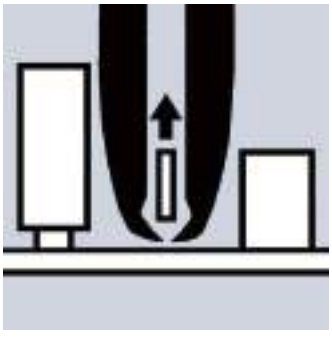
64 02 115
90°

64 12 115
90°

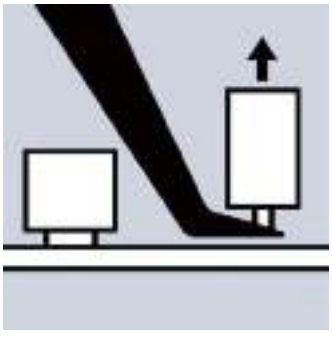
64 22 115
90°

64 32 120
15°

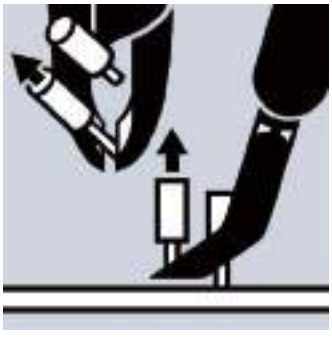
64 72 120
35°



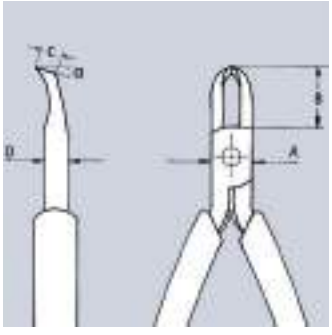
64 22 115



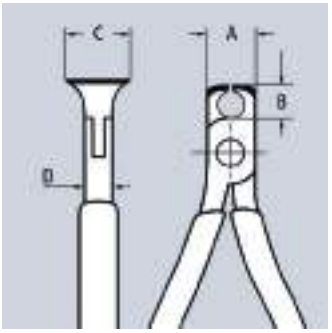
64 62 120



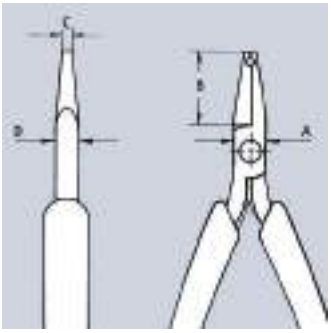
64 72 120



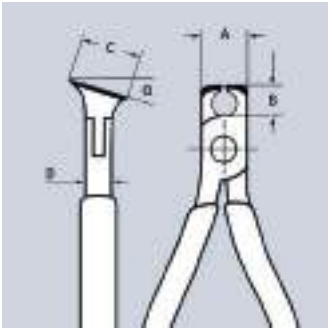
64 72 120



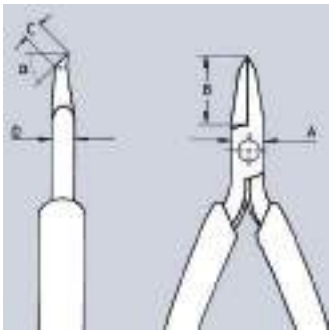
64 01/02/11/12



64 22 115



64 32/42/52



64 62 120

64 42 115

64 52 115

64 62 120

Product Number	Packaging	↔ Inch mm		Head	Handles	Style	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	Dimensions A Inch mm	B Inch mm	C Inch mm	D Inch mm	⚖ lbs
64 01 115		4 1/2 115	∠90°	mirror polished	plastic coated	0	5/64 2.0	3/64 1.0	1/64 0.5	7/16 11.0	15/64 6.0	5/8 16.0	19/64 7.5	0.17
64 02 115		4 1/2 115	∠90°	mirror polished	multi-component grips	0	5/64 2.0	3/64 1.0	1/64 0.5	7/16 11.0	15/64 6.0	5/8 16.0	19/64 7.5	0.21
64 11 115		4 1/2 115	∠90°	mirror polished	plastic coated	1	1/16 1.4	1/32 0.8	-	7/16 11.0	15/64 6.0	5/8 16.0	9/32 7.0	0.16
64 12 115		4 1/2 115	∠90°	mirror polished	multi-component grips	1	1/16 1.4	1/32 0.8	-	7/16 11.0	15/64 6.0	5/8 16.0	9/32 7.0	0.21
64 22 115		4 1/2 115	∠90°	mirror polished	multi-component grips	2	1/32 0.8	-	-	25/64 10.0	51/64 20.2	1/8 3.0	15/64 6.0	0.14
64 32 120		4 3/4 120	∠15°	mirror polished	multi-component grips	3	1/16 1.5	3/64 1.0	1/64 0.5	7/16 11.0	25/64 10.0	43/64 17.0	9/32 7.0	0.20
64 42 115		4 1/2 115	∠27°	mirror polished	multi-component grips	4	1/16 1.5	3/64 1.0	1/64 0.5	13/32 10.5	25/64 10.0	15/32 12.0	9/32 7.0	0.15
64 52 115		4 1/2 115	∠27°	mirror polished	multi-component grips	5	3/64 1.3	-	-	13/32 10.5	25/64 10.0	15/32 12.0	9/32 7.0	0.15
64 62 120		4 3/4 120	∠65°	mirror polished	multi-component grips	6	1/64 0.5	-	-	3/8 9.5	47/64 18.5	13/64 5.0	15/64 6.0	0.15
64 72 120		4 3/4 120	∠35°	mirror polished	multi-component grips	7	1/16 1.5	-	-	15/32 12.0	13/64 5.1	13/64 5.0	9/32 7.0	0.21

Electronics End Cutting Nippers ESD
DIN ISO 9654

64

- precision pliers for ultra fine cutting work, e.g. in electronics and fine mechanics
- electrically discharging handles – dissipative
- precision box-joint
- low-friction double spring for gentle and even opening
- the mirror polish and a fine film of oil offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- cutting edge hardness (at least 60 HRC)
- with two-color dual component handles, black/grey
- ball bearing chrome steel

Style 1
End Cutter, with small bevel

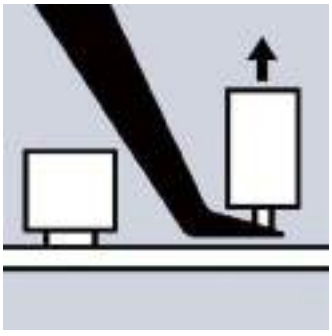
Style 3
Oblique End Cutter, short head, with small bevel, 15° angle

Style 6
Oblique End Cutter, mini-blade with small bevel, 65° angle

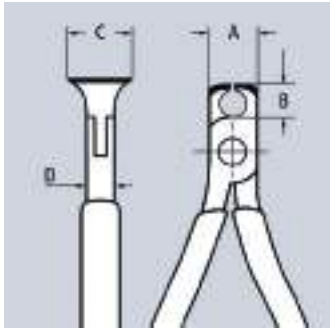
64 12 115 ESD

64 32 120 ESD

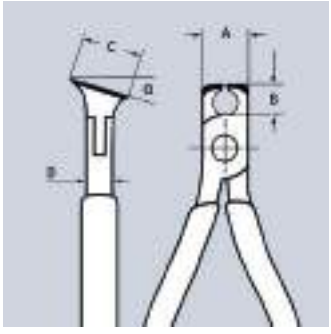
64 62 120 ESD



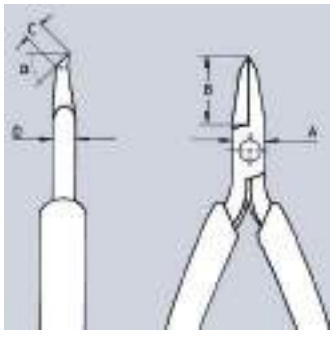
64 62 120 ESD



64 12 115 ESD



64 32 120 ESD



64 62 120 ESD

ESD Pliers (electrostatic discharge)

Electrostatic energy is discharged through the handles in a gradual and controlled manner which protects components endangered by electrostatic discharge in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

Product Number	Packaging	↔ Inch mm		Head	Handles	Style	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Dimensions A Inch mm	B Inch mm	C Inch mm	D Inch mm	lbs
64 02 115 ESD		4 1/2 115	90°	mirror polished	ESD multi-component grips	0	5/64 2.0	3/64 1.0	1/64 0.5	7/16 11.0	15/64 6.0	5/8 16.0	19/64 7.5	0.21
64 12 115 ESD		4 1/2 115	90°	mirror polished	ESD multi-component grips	1	1/16 1.5	3/64 1.0	1/64 0.5	7/16 11.0	15/64 6.0	5/8 16.0	9/32 7.0	0.21
64 32 120 ESD		4 3/4 120	15°	mirror polished	ESD multi-component grips	3	1/16 1.5	3/64 1.0	1/64 0.5	7/16 11.0	25/64 10.0	43/64 17.0	9/32 7.0	0.20
64 62 120 ESD		4 3/4 120	65°	mirror polished	ESD multi-component grips	6	1/64 0.5	-	-	3/8 9.5	47/64 18.5	13/64 5.0	15/64 6.0	0.15

Electronics Diagonal Cutters
DIN ISO 9654

75

> bolted joint for high precision and stress tolerance
> for ultra fine cutting work, e.g. in electronics and fine mechanics
> sharp, ground cutting edges for soft, hard wire and piano wire
> cutting edge hardness (approx. 64 HRC)
> low-friction double spring for gentle and even opening
> high-grade special tool steel; forged, multi stage oil-hardened

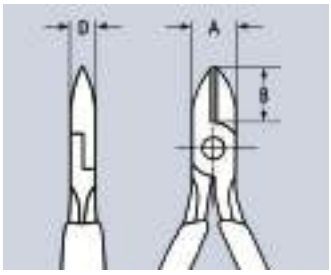
Style 0
With bevel

Style 1
With bevel and lead catcher, no uncontrolled loss of cut wire ends

Style 2
With small bevel

Style 3
Particularly narrow head, with bevel

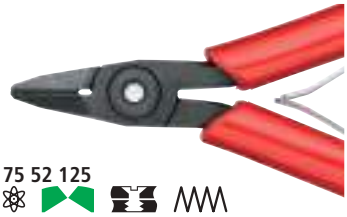
Bolted joint



75 02 125

75 12 125

75 22 125



75 52 125

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm		Style	Pliers	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	● Ø Inch Ø mm	Dimensions A Inch mm	B Inch mm	D Inch mm	⚖ lbs
75 02 125		5 125		0	burnished	plastic grips	1/64 - 3/64 0.2 - 1.3	3/64 1.0	1/32 0.6	1/64 0.4	13/32 10.5	35/64 14	1/4 6.5	0.18
75 12 125		5 125		1	burnished	plastic grips	1/64 - 3/64 0.2 - 1.3	3/64 1.0	1/32 0.6	1/64 0.4	13/32 10.5	35/64 14	1/4 6.5	0.18
75 22 125		5 125		2	burnished	plastic grips	1/64 - 3/64 0.2 - 1.3	1/32 0.9	1/64 0.4	1/64 0.3	13/32 10.5	35/64 14	1/4 6.5	0.18
75 52 125		5 125		3	burnished	plastic grips	1/64 - 1/32 0.2 - 0.8	1/64 0.5	1/64 0.3	-	13/32 10.5	35/64 14	1/4 6.5	0.18

Electronics Diagonal Cutters
DIN ISO 9654

77

- for fine cutting work in electronics and fine mechanics
- sturdy, zero backlash box-joint
- low-friction double spring for gentle and even opening
- mirror polish, with a fine film of oil, offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- cutting edges induction hardened (approx. 60 HRC)
- ball bearing steel

77 01 115 / 77 02 130 / 77 01 130
Round head, with bevel; cutting edge hardness approx. 62 HRC

77 02 115 / 77 22 130
Round head, with small bevel; cutting edge hardness approx. 60 HRC

77 12 115
Round head, with bevel and lead catcher – no uncontrolled loss of cut wire ends; cutting edge hardness approx. 62 HRC

77 21 115
Pointed head, without bevel; cutting edge hardness approx. 57 HRC

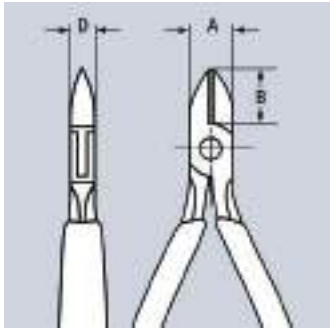
77 22 115
Round head, without bevel; cutting edge hardness approx. 57 HRC

77 32 115
Pointed head, with small bevel; cutting edge hardness approx. 60 HRC

77 42 115 / 77 42 130
Pointed head, without bevel; cutting edge hardness approx. 57 HRC

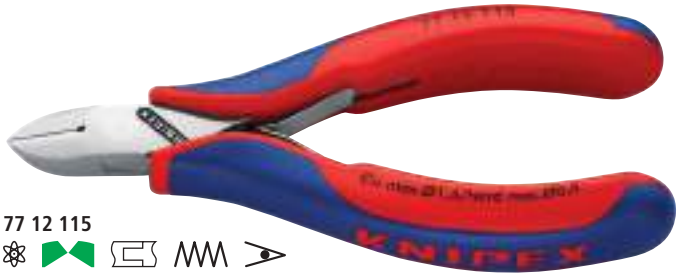
77 52 115
Pointed, flat head, with small bevel; cutting edge hardness approx. 60 HRC

77 72 115
Pointed mini-head, with small bevel; cutting edge hardness approx. 60 HRC

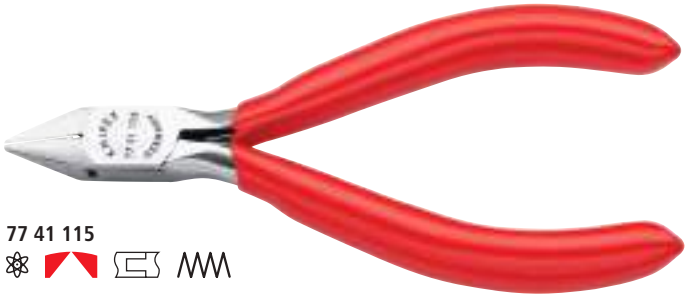


77 01 115

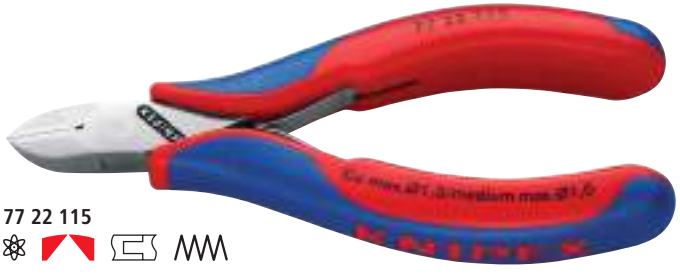
77 02 115



77 12 115



77 41 115



77 22 115

77 32 115

77 52 115

77 42 115

77 72 115

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Dimensions A Inch mm	B Inch mm	D Inch mm	lbs
77 01 115		4 1/2 115		mirror polished	plastic coated	1/64 - 1/16 0.3 - 1.6	3/64 1.2	1/64 0.3	7/16 11.0	35/64 14.0	19/64 7.5	0.15
77 01 130		5 1/4 130		mirror polished	plastic coated	1/64 - 5/64 0.3 - 2.0	1/16 1.5	1/32 0.8	19/32 15.0	23/32 18.3	3/8 9.5	0.24
77 02 115		4 1/2 115		mirror polished	multi-component grips	1/64 - 1/16 0.3 - 1.6	3/64 1.2	1/64 0.3	7/16 11.0	35/64 14.0	19/64 7.5	0.18
77 02 130		5 1/4 130		mirror polished	multi-component grips	1/64 - 5/64 0.3 - 2.0	1/16 1.5	1/32 0.8	19/32 15.0	23/32 18.3	3/8 9.5	0.30
77 11 115		4 1/2 115		mirror polished	single-component grips	1/64 - 1/16 0.3 - 1.6	3/64 1.2	1/64 0.3	7/16 11.0	35/64 14.0	19/64 7.5	0.18
77 12 115		4 1/2 115		mirror polished	multi-component grips	1/64 - 1/16 0.3 - 1.6	3/64 1.2	1/64 0.3	35/64 14.0	7/16 11.0	19/64 7.5	0.18
77 21 115 N		4 1/2 115		mirror polished	single-component grips	1/64 - 3/64 0.3 - 1.3	3/64 1.0	-	7/16 11.0	33/64	9/32 7.0	0.11
77 21 130		5 1/4 130		mirror polished	single-component grips	1/64 - 1/16 0.3 - 1.6	3/64 1.2	-	19/32 15.0	23/32 18.3	3/8 9.5	0.30
77 22 115		4 1/2 115		mirror polished	multi-component grips	1/64 - 3/64 0.3 - 1.3	3/64 1.0	-	7/16 11.0	35/64 14.0	9/32 7.0	0.18
77 22 130		5 1/4 130		mirror polished	multi-component grips	1/64 - 5/64 0.3 - 2.0	1/16 1.5	-	19/32 15.0	23/32 18.3	23/64 9.0	0.27
77 32 115		4 1/2 115		mirror polished	multi-component grips	1/64 - 3/64 0.3 - 1.3	3/64 1.0	1/64 0.5	7/16 11.0	35/64 14.0	19/64 7.5	0.18
77 41 115		4 1/2 115		mirror polished	plastic coated	1/64 - 3/64 0.3 - 1.3	1/32 0.8	-	35/64 14.0	1/2 13.0	19/64 7.5	0.18
77 42 115		4 1/2 115		mirror polished	multi-component grips	1/64 - 3/64 0.3 - 1.3	1/32 0.8	-	7/16 11.0	35/64 14.0	19/64 7.5	0.18
77 42 130		5 1/4 130				1/64 - 1/16 0.3 - 1.6	3/64 1.3	-	19/32 15.0	23/32 18.3	3/8 9.5	0.18
77 52 115		4 1/2 115		mirror polished	multi-component grips	1/64 - 3/64 0.3 - 1.0	1/32 0.8	1/64 0.5	7/16 11.0	35/64 14.0	19/64 7.5	0.17
77 72 115		4 1/2 115		mirror polished	multi-component grips	1/64 - 1/32 0.3 - 0.8	-	-	3/8 9.5	13/32 10.5	15/64 6.0	0.15

Sets of pliers can be found on page 203

Electronics Diagonal Cutters ESD

DIN ISO 9654

77

- for fine cutting work in electronics and fine mechanics
- electrically discharging handles – dissipative
- sturdy, zero backlash box-joint
- low-friction double spring for gentle and even opening
- the mirror polish with a fine film of oil, offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- induction hardened cutting edges (approx. 60 HRC)
- ball bearing steel

77 02 115 ESD
Round head, with small bevel; cutting edge hardness approx. 60 HRC

77 12 115 ESD
Round head, with bevel and lead catcher - no uncontrolled loss of cut wire ends; cutting edge hardness approx. 62 HRC

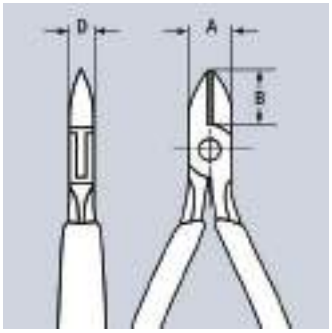
77 22 115 ESD
Round head, without bevel; cutting edge hardness approx. 57 HRC

77 32 115 ESD
Pointed head, with small bevel; cutting edge hardness approx. 60 HRC

77 42 115 ESD
Pointed head, without bevel; cutting edge hardness approx. 57 HRC

77 52 115 ESD
Pointed, flat head, with small bevel; cutting edge hardness approx. 60 HRC

77 72 115 ESD
Pointed mini-head, with small bevel; cutting edge hardness approx. 60 HRC



ESD Pliers (electrostatic discharge)

Electrostatic energy is discharged through the handles in a gradual and controlled manner which protects components endangered by electrostatic discharge in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

77 02 115 ESD

77 12 115 ESD

77 22 115 ESD

77 32 115 ESD

77 42 115 ESD

77 52 115 ESD

77 72 115 ESD

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	Dimensions A Inch mm	B Inch mm	D Inch mm	lbs
77 02 115 ESD		4 1/2 115		mirror polished	ESD multi-component grips	1/64 - 1/16 0.3 - 1.6	3/64 1.2	1/64 0.3	7/16 11.0	35/64 14.0	19/64 7.5	0.16
77 12 115 ESD		4 1/2 115		mirror polished	ESD multi-component grips	1/64 - 1/16 0.3 - 1.6	3/64 1.2	1/32 0.6	7/16 11.0	35/64 14.0	19/64 7.5	0.18
77 22 115 ESD		4 1/2 115		mirror polished	ESD multi-component grips	1/64 - 3/64 0.3 - 1.3	3/64 1.0	-	7/16 11.0	35/64 14.0	19/64 7.5	0.15
77 32 115 ESD		4 1/2 115		mirror polished	ESD multi-component grips	1/64 - 3/64 0.3 - 1.3	3/64 1.0	1/64 0.5	7/16 11.0	35/64 14.0	19/64 7.5	0.17
77 42 115 ESD		4 1/2 115		mirror polished	ESD multi-component grips	1/64 - 3/64 0.3 - 1.3	1/32 0.8	-	7/16 11.0	35/64 14.0	19/64 7.5	0.17
77 52 115 ESD		4 1/2 115		mirror polished	ESD multi-component grips	1/64 - 3/64 0.3 - 1.0	1/32 0.8	1/64 0.5	7/16 11.0	35/64 14.0	19/64 7.5	0.17
77 72 115 ESD		4 1/2 115		mirror polished	ESD multi-component grips	1/64 - 1/32 0.3 - 0.8	-	-	7/16 11.0	35/64 14.0	19/64 7.5	0.15

Sets of pliers can be found on page 203

Electronics Diagonal Cutters

with inserted carbide metal cutting edges
DIN ISO 9654

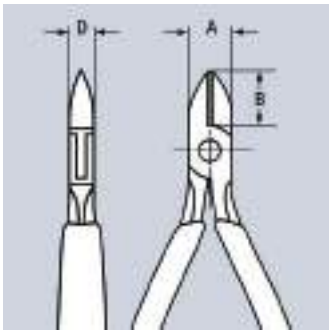
77 H

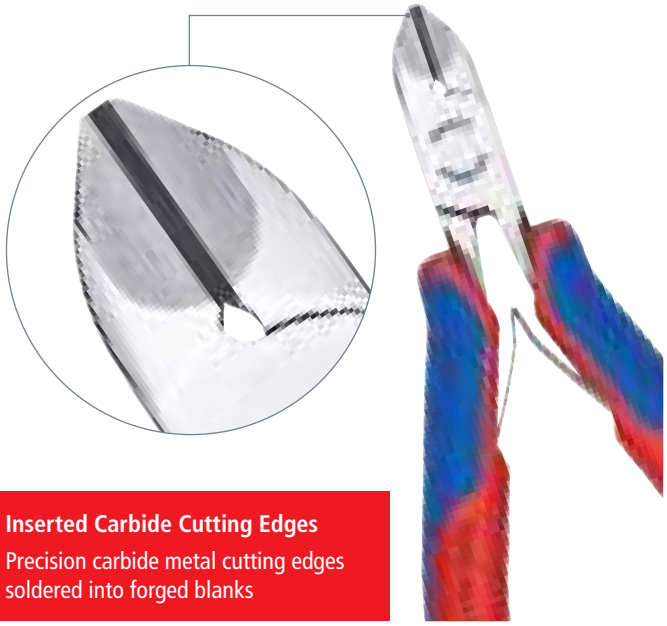
- for extreme demands on cutting pliers caused by hard or tough materials, e.g. piano, nickel, tungsten and diode wire, which are used more frequently in the electronics and aerospace industries
- precision carbide metal cutting edges soldered into forged blanks
- sturdy, zero backlash box-joint
- hardness of the carbide cutting edges (approx. 80 – 83 HRC)
- pliers with carbide metal cutting edges have a substantially longer service life than with conventional cutting edges
- constantly reliable cutting results due to the avoidance of cutter deformations
- high cost savings due to longer service life of the pliers

77 32 120 H
Pointed head with chamfer; with small bevel

77 02 120 H

77 32 120 H





Inserted Carbide Cutting Edges
Precision carbide metal cutting edges soldered into forged blanks

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	● Ø Inch Ø mm	Dimensions A Inch mm	B Inch mm	D Inch mm	⚖ lbs
77 02 120 H		4 3/4 120		mirror polished	multi-component grips	5/64 2.0	3/64 1.0	1/32 0.6	1/64 0.2	7/16 11	9/16 14.3	19/64 7.5	0.19
77 02 135 H		5 1/4 135				5/64 2.0	1/16 1.6	3/64 1.2	1/32 0.8	19/32 15	45/64 18	3/8 9.5	0.26
77 32 120 H		4 3/4 120		mirror polished	multi-component grips	1/16 1.6	1/32 0.6	1/64 0.2	1/64 0.2	7/16 11	9/16 14.3	19/64 7.5	0.17

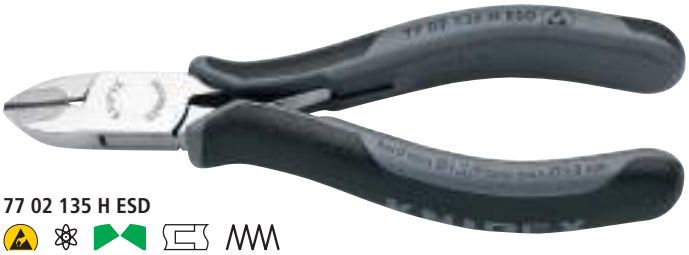
Electronics Diagonal Cutters ESD

with inserted carbide metal cutting edges
DIN ISO 9654

77 H

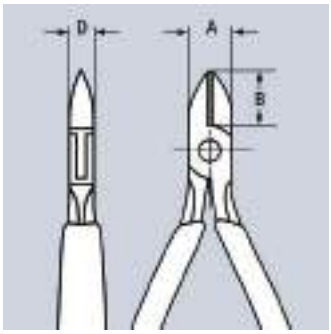
- for extreme demands on cutting pliers caused by hard or tough materials, e.g. piano, nickel, tungsten and diode wire, which are used more frequently in the electronics and aerospace industries
- precision carbide metal cutting edges soldered into forged blanks
- sturdy, zero backlash box-joint
- hardness of the carbide cutting edges (approx. 80 – 83 HRC)
- pliers with carbide metal cutting edges have a substantially longer service life than those with conventional cutting edges
- constantly reliable cutting results due to the avoidance of cutter deformations
- high cost savings due to longer service life of the pliers
- electrically discharging handles – dissipative (ESD version only)

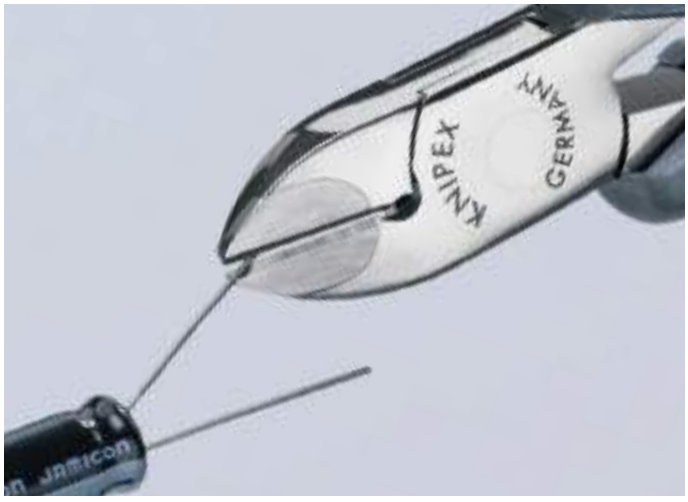
77 02 120 H ESD



77 02 135 H ESD

77 32 120 H ESD
Pointed head with chamfer; with small bevel





ESD Pliers (electrostatic discharge)

Electrostatic energy is discharged through the handles in a gradual and controlled manner which protects components endangered by electrostatic discharge in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	● Ø Inch Ø mm	Dimensions A Inch mm	B Inch mm	D Inch mm	lbs
77 02 120 H ESD		4 3/4 120		mirror polished	ESD multi-component grips	5/64 2.0	3/64 1.0	1/32 0.6	1/64 0.2	7/16 11.0	9/16 14.3	19/64 7.5	0.19
77 02 135 H ESD		5 1/4 135				5/64 2.0	1/16 1.6	3/64 1.2	1/32 0.8	19/32 15.0	45/64 18.0	3/8 9.5	0.26
77 32 120 H ESD		4 3/4 120		mirror polished	ESD multi-component grips	1/16 1.6	1/32 0.6	1/64 0.2	1/64 0.2	7/16 11.0	9/16 14.3	19/64 7.5	0.17

Electronic Super Knips®
DIN ISO 9654

78

- precision pliers for ultra fine cutting work in electronics and fine mechanics
- ground, very sharp cutting edges without bevel for flush cutting
- precision shaped tips cut wires resting on a board from 1/64" (0.2 mm) dia.
- joint with stainless steel rivet
- extremely smooth movement for minimum operator fatigue
- includes opening spring for easy repetitive work

78 03 125 / 78 23 125
Cutting edge hardness approx. 54 HRC; INOX – stainless steel

78 13 125
With lead catcher – no uncontrolled loss of cut wire ends; cutting edge hardness approx. 54 HRC; INOX – stainless steel

78 31 125
With narrow head; cutting edge hardness approx. 60 HRC; special tool steel, burnished

78 41 125
With lead catcher – no uncontrolled loss of cut wire ends; with narrow head; cutting edge hardness approx. 60 HRC; special tool steel, burnished

78 61 125
Suitable for cutting glass fiber cables (fiber optics); cutting edge hardness approx. 64 HRC; special tool steel, multi stage oil-hardened

78 71 125
With lead catcher – no uncontrolled loss of cut wire ends; cutting edge hardness approx. 64 HRC; special tool steel, burnished

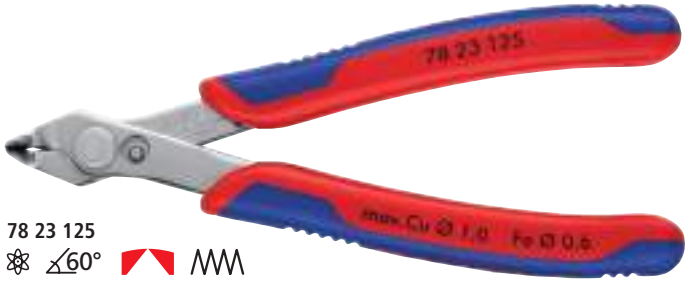
Models for hard wire

78 81 125
Precision ground cutting edges with very small bevel suitable for hard wire; cutting edge hardness approx. 64 HRC; special tool steel, burnished

78 91 125
Precision ground cutting edges with very small bevel suitable for hard wire; with lead catcher – no uncontrolled loss of cut wire ends; cutting edge hardness approx. 64 HRC; special tool steel, burnished

78 03 125

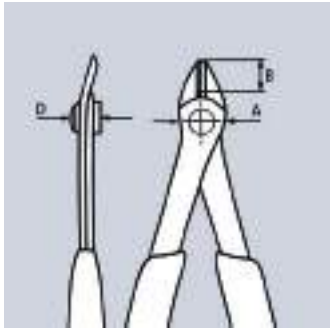
78 13 125

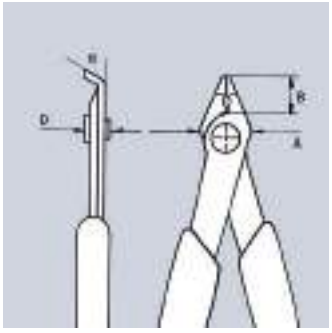


78 23 125

78 31 125

78 41 125





78 61 125

78 71 125

78 81 125

78 91 125

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Dimensions A Inch mm	B Inch mm	D Inch mm	lbs
78 03 125		5 125			polished	multi-component grips	1/64 - 1/16 0.2 - 1.6	3/64 1.0	-	17/32 13.5	23/64 9.0	19/64 7.5	0.13
78 13 125		5 125			polished	multi-component grips	1/64 - 1/16 0.2 - 1.6	3/64 1.0	-	17/32 13.5	23/64 9.0	19/64 7.5	0.14
78 23 125	X	5 125	∡60°		polished	multi-component grips	1/64 - 3/64 0.2 - 1.0	1/64 0.2	-	17/32 13.5	7/32 5.5	19/64 7.5	0.12
78 31 125		5 125		burnished		multi-component grips	1/64 - 3/64 0.2 - 1.0	-	-	17/32 13.5	23/64 9.0	19/64 7.5	0.13
78 41 125		5 125		burnished		multi-component grips	1/64 - 3/64 0.2 - 1.0	-	-	17/32 13.5	23/64 9.0	19/64 7.5	0.14
78 61 125	X	5 125		burnished		multi-component grips	1/64 - 1/16 0.2 - 1.6	3/64 1.2	-	17/32 13.5	23/64 9.0	19/64 7.5	0.13
78 71 125		5 125		burnished		multi-component grips	1/64 - 1/16 0.2 - 1.6	3/64 1.2	-	17/32 13.5	23/64 9.0	19/64 7.5	0.14
78 81 125		5 125		burnished		multi-component grips	5/64 - 1/16 1.2 - 1.6	3/64 1.2	1/64 0.2	17/32 13.5	23/64 9.0	19/64 7.5	0.14
78 91 125		5 125		burnished		multi-component grips	5/64 - 1/16 1.2 - 1.6	3/64 1.2	1/64 0.2	17/32 13.5	23/64 9.0	19/64 7.5	0.14

Electronic Super Knips®
DIN ISO 9654

78

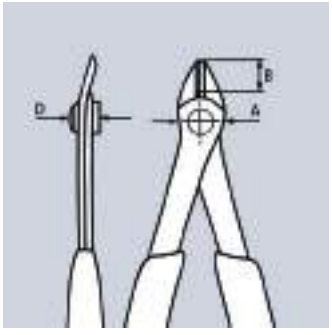
- precision pliers for ultra fine cutting work in electronics and fine mechanics
- electrically discharging handles – dissipative (ESD versions only)
- ground, very sharp cutting edges without bevel for flush cutting
- precision shaped tips cut wires resting on a board from 1/64" (0.2 mm) dia.
- joint with stainless steel rivet
- extremely smooth movement for minimum operator fatigue
- includes opening spring for easy repetitive work

78 03 125 ESD
Cutting edge hardness approx. 54 HRC; INOX – stainless steel

78 13 125 ESD
With lead catcher – no uncontrolled loss of cut wire ends; cutting edge hardness approx. 54 HRC; INOX – stainless steel

78 61 125 ESD
Cutting edge hardness approx. 64 HRC; special tool steel, burnished

78 71 125 ESD
With lead catcher – no uncontrolled loss of cut wire ends; cutting edge hardness approx. 64 HRC; special tool steel, burnished



ESD Pliers (electrostatic discharge)

Electrostatic energy is discharged through the handles in a gradual and controlled manner which protects components endangered by electrostatic discharge in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

78 03 125 ESD

78 13 125 ESD

78 61 125 ESD

78 71 125 ESD

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Dimensions A Inch mm	B Inch mm	D Inch mm	lbs
78 03 125 ESD		5 125		polished	ESD multi-component grips	1/64 - 1/16 0.2 - 1.6	3/64 1.0	17/32 13.5	23/64 9.0	19/64 7.5	0.13
78 13 125 ESD		5 125		polished	ESD multi-component grips	1/64 - 1/16 0.2 - 1.6	3/64 1.0	17/32 13.5	23/64 9.0	19/64 7.5	0.14
78 61 125 ESD		5 125		burnished	ESD multi-component grips	1/64 - 1/16 0.2 - 1.6	3/64 1.2	17/32 13.5	23/64 9.0	19/64 7.5	0.12
78 71 125 ESD		5 125		burnished	ESD multi-component grips	1/64 - 1/16 0.2 - 1.6	3/64 1.2	17/32 13.5	23/64 9.0	19/64 7.5	0.14

Now available in a 5 1/2" version. The added 1/2" length is for greater stability and cutting performance.

- precision ground cutting edges without bevel for flush cutting the finest of wires e.g. in electronics and precision engineering
- precisely shaped tips also cut adjacent wires from 1/64" (0.20 mm) diameter
- opening spring and opening limiter user-friendly handle width
- extremely smooth movement for minimum operator fatigue

78 03 140 / 78 03 140 ESD
Durable and stainless, made from INOX surgical steel, cutting edges hardened to 54 HRC

78 61 140 / 78 61 140 ESD
Heavy-duty, made from burnished special tool steel, cutting edges induction hardened (approx. 64 HRC)

78 03 140 ESD / 78 61 140 ESD
Allows electrostatic energy to discharge through the handles protecting components from electrostatic discharge

78 03 140

78 61 140 ESD

5 1/2" (140 mm) length: stronger and extremely versatile

For flush cutting, e.g. to shorten cable ties

Shear cut blade design for precise cutting

Product Number	Packaging	↔ Inch mm		Head	Handles	◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	A Inch mm	B Inch mm	D Inch mm	⚖ lbs
78 03 140		5 1/2 140		polished	multi-component grips	1/64 - 1/8 0.2 - 2.1	1/16 1.2	39/64 15.5	31/64 12.5	23/64 13.5	0.17
78 03 140 ESD		5 1/2 140		polished	ESD multi-component grips	1/64 - 1/8 0.2 - 2.1	1/16 1.2	39/64 15.5	31/64 12.5	23/64 13.5	0.17
78 61 140		5 1/2 140			multi-component grips	1/64 - 1/8 0.2 - 2.1	1/16 1.2	39/64 15.5	31/64 12.5	23/64 13.5	0.17
78 61 140 ESD		5 1/2 140			ESD multi-component grips	1/64 - 1/8 0.2 - 2.1	1/16 1.2	39/64 15.5	31/64 12.5	23/64 13.5	0.17

Precision Electronics Diagonal Cutters
DIN ISO 9654

- precision pliers for ultra fine cutting work in electronics and fine mechanics
- very precisely ground and sharp cutting edges with very small bevels for precise cutting work on small electronic components
- cutting edge hardness (approx. 64 HRC)
- approx. 20% lighter than conventional electronics pliers
- bolted joint with carefully manufactured joint surfaces for even, low-friction movement throughout the entire opening range
- double spring for a gentle and even opening
- ergonomically optimized handle covers
- ball bearing chrome steel; forged, multi stage oil-hardened

79 02 120
Mini-head

79 02 125
Round head

79 12 125
Specifically for cutting through hard wire and piano wire

79 22 120
Mini-head

79 22 125
Round head

79 32 125
Pointed head

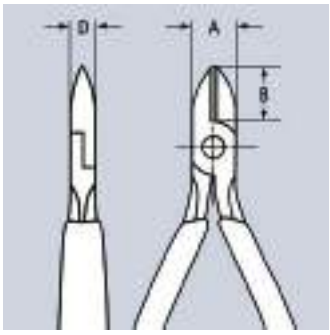
79 42 125
Pointed head

79 52 125
Pointed head; with lead catcher – no uncontrolled loss of cut wire ends

79 62 125
Pointed head; with lead catcher – no uncontrolled loss of cut wire ends

Cut with
79 42 125
(without bevel)

Cut with
79 42 125 Z
(flush cut)



The Subtle Difference

KNIPEX precision electronics pliers are made of high-quality ball bearing steel and processed with the highest degree of care. Each opening movement is gentle and even without backlash. Each work step proceeds reliably and precisely. This makes work much easier for professionals.

79 02 120

79 02 125

79 22 120

79 22 125

79 32 125

Sets of pliers can be found on page 203

79 42 125

79 42 125 Z

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities ◔ Ø Inch Ø mm	◑ Ø Inch Ø mm	◕ Ø Inch Ø mm	● Ø Inch Ø mm	Dimensions A Inch mm	B Inch mm	D Inch mm	⚖ lbs
79 02 120		4 3/4 120		burnished	polished	multi-component grips	1/64 - 1/16 0.2 - 1.4	3/64 1.0	1/64 0.2	-	23/64 9.0	1/4 6.5	1/4 6.5	0.13
79 02 125		5 125		burnished	polished	multi-component grips	1/64 - 5/64 0.2 - 1.2	3/64 1.3	1/32 0.7	-	7/16 11.0	25/64 10.0	1/4 6.5	0.13
79 12 125		5 125		burnished	polished	multi-component grips	1/64 - 5/64 0.3 - 1.2	3/64 1.3	3/64 1.0	1/64 0.2	7/16 11.0	25/64 10.0	1/4 6.5	0.13
79 22 120		4 3/4 120		burnished	polished	multi-component grips	1/64 - 3/64 0.1 - 1.3	1/32 0.8	-	-	23/64 9.0	1/4 6.5	1/4 6.5	0.13
79 22 125		5 125		burnished	polished	multi-component grips	1/64 - 5/64 0.1 - 1.2	3/64 1.0	-	-	7/16 11.0	25/64 10.0	1/4 6.5	0.13
79 32 125		5 125		burnished	polished	multi-component grips	1/64 - 1/16 0.2 - 1.5	3/64 1.1	1/64 0.2	-	7/16 11.0	7/16 11.0	1/4 6.5	0.13
79 42 125		5 125		burnished	polished	multi-component grips	1/64 - 1/16 0.1 - 1.5	1/32 0.8	-	-	7/16 11.0	7/16 11.0	1/4 6.5	0.13
79 42 125 Z		5 125		burnished	polished	multi-component grips	up to 1/64 up to 0.2	-	-	-	7/16 11.0	7/16 11.0	1/4 6.5	0.13
79 52 125		5 125		burnished	polished	multi-component grips	1/64 - 1/16 0.2 - 1.7	1/32 0.9	1/64 0.5	-	7/16 11.0	7/16 11.0	1/4 6.5	0.13
79 62 125		5 125		burnished	polished	multi-component grips	1/64 - 1/16 0.1 - 1.7	1/32 0.8	-	-	7/16 11.0	7/16 11.0	1/4 6.5	0.13

Precision Electronics Diagonal Cutters ESD

DIN ISO 9654

Electrically discharging handles – dissipative

- precision pliers for ultra fine cutting work in electronics and fine mechanics
- very precisely ground and sharp cutting edges with very small bevels for precise cutting work on small electronic components
- cutting edge hardness (approx. 64 HRC)
- approx. 20% lighter than conventional electronics pliers
- bolted joint with particularly carefully manufactured joint surfaces for even, low-friction movement throughout the entire opening range
- double spring for a gentle and even opening
- ergonomically optimized handle covers
- ball bearing chrome steel; forged, multi stage oil-hardened

79 02 120 ESD
Mini-head

79 02 125 ESD
Round head

79 12 125 ESD
Specifically for cutting through hard wire and piano wire

79 22 120 ESD
Mini-head

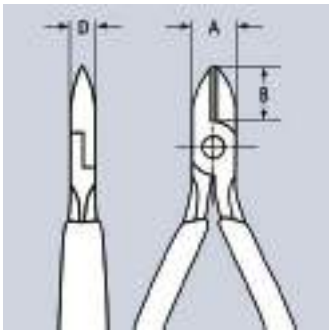
79 22 125 ESD
Round head

79 32 125 ESD
Pointed head

79 42 125 ESD
Pointed head

79 52 125 ESD
Pointed head; with lead catcher – no uncontrolled loss of cut wire ends

79 62 125 ESD
Pointed head; with lead catcher – no uncontrolled loss of cut wire ends



Sets of pliers can be found on page 203

79 02 120 ESD

79 02 125 ESD

79 22 120 ESD

79 22 125 ESD

79 32 125 ESD

79 42 125 ESD

ESD Pliers (electrostatic discharge)

Electrostatic energy is discharged through the handles in a gradual and controlled manner which protects components endangered by electrostatic discharge in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Dimensions A Inch mm	B Inch mm	D Inch mm	lbs
79 02 120 ESD		4 3/4 120		burnished	polished	ESD multi-component grips	1/64 - 1/16 0.2 - 1.4	3/64 1.0	1/32 0.6	-	23/64 9.0	1/4 6.5	1/4 6.5	0.13
79 02 125 ESD		5 125		burnished	polished	ESD multi-component grips	1/64 - 5/64 0.2 - 2.0	3/64 1.3	1/32 0.7	-	7/16 11.0	25/64 10.0	1/4 6.5	0.13
79 12 125 ESD		5 125		burnished	polished	ESD multi-component grips	1/64 - 5/64 0.3 - 2.0	3/64 1.3	3/64 1.0	1/64 0.2	7/16 11.0	25/64 10.0	1/4 6.5	0.13
79 22 120 ESD		4 3/4 120		burnished	polished	ESD multi-component grips	1/64 - 3/64 0.1 - 1.3	1/32 0.8	-	-	23/64 9.0	1/4 6.5	1/4 6.5	0.13
79 22 125 ESD		5 125		burnished	polished	ESD multi-component grips	1/64 - 5/64 0.1 - 2.0	3/64 1.0	-	-	7/16 11.0	25/64 10.0	1/4 6.5	0.13
79 32 125 ESD		5 125		burnished	polished	ESD multi-component grips	1/64 - 1/16 0.2 - 1.5	3/64 1.1	1/64 0.2	-	7/16 11.0	7/16 11.0	1/4 6.5	0.13
79 42 125 ESD		5 125		burnished	polished	ESD multi-component grips	1/64 - 1/16 0.1 - 1.5	1/32 0.8	-	-	7/16 11.0	7/16 11.0	1/4 6.5	0.13
79 42 125 Z ESD		5 125		burnished	polished	ESD multi-component grips	up to 1/64 up to 0.2	-	-	-	7/16 11.0	7/16 11.0	1/4 6.5	0.13
79 52 125 ESD		5 125		burnished	polished	ESD multi-component grips	1/64 - 1/16 0.2 - 1.7	1/32 0.9	1/64 0.5	-	7/16 11.0	7/16 11.0	1/4 6.5	0.13
79 62 125 ESD		5 125		burnished	polished	ESD multi-component grips	1/64 - 1/16 0.1 - 1.7	1/32 0.8	-	-	7/16 11.0	7/16 11.0	1/4 6.5	0.13

For pipes, and connectors up to 3 5/32" (80 mm) diameter
Fine push-button adjustment for the perfect fit on different sized workpieces

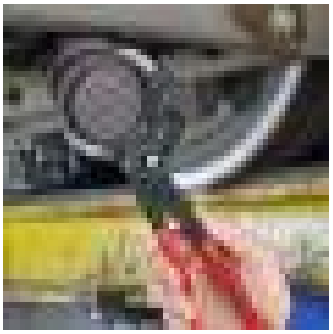
- ideal for tightening and loosening screw connections, plastic pipe fittings and round nuts
- soft jaw version is an ideal tool for cannon plugs in aviation and electrical connections in high performance automotive, truck and trailer applications
- for gentle loosening of hoses on nozzles
- 25 adjustment positions
- robust, heavy-duty box-joint design
- ergonomic handle geometry
- chrome vanadium electric steel; forged, oil-hardened

81 01 250
With serrated gripping jaws; up to 3 5/32" (80 mm) dia.

81 11 250
With exchangeable plastic jaws for sensitive surfaces; up to 3" (75 mm) dia.

81 01 250

81 11 250



Product Number	Packaging	↔ Inch / mm		Pliers	Handles	Capacity Ø Inch / Ø mm	Adjustment positions	⚖ lbs
81 01 250	X	10 / 250		black atramentized	non-slip plastic coated	1 - 3 5/32 / 25 - 80	25	0.76
81 11 250	X	10 / 250		black atramentized	non-slip plastic coated	3/8 - 3 / 10 - 75	25	0.76

81 19 250	1 pair of plastic jaws for 81 11 250

Pipe Wrenches 90°
DIN 5234

83 1

- Swedish pattern
- 90° angled jaws
- jaws with offset teeth in opposite directions for a strong grip
- induction hardened teeth for long life
- i-beam handle design
- captive adjusting nut
- red powder-coated, jaws bright ground
- chrome vanadium electric steel; forged, multi stage oil-hardened

83 10 015
90°

Product Number	Packaging	↔ Inch mm		Pliers	○ Ø Inch Ø mm	Inch	lbs
83 10 010		12 1/4 310			1 21/32 42	1	1.74
83 10 015		16 1/2 420			2 3/64 60	1 1/2	3.08
83 10 020		22 560	90°	red powder-coated	2 3/4 70	2	5.37
83 10 030		25 1/2 650			4 3/8 110	3	7.44
83 10 040		29 1/2 750			5 1/8 130	4	10.56

Pipe Wrenches 45°
DIN 5234

83 2

- Swedish pattern
- 45° angled jaws
- jaws with offset teeth in opposite directions for a strong grip
- induction hardened teeth for long life
- i-beam handle design
- captive adjusting nut
- red powder-coated, jaws bright ground
- chrome vanadium electric steel; forged, multi stage oil-hardened

83 20 015
45°

Product Number	Packaging	↔ Inch mm		Pliers	○ Ø Inch Ø mm	Inch	lbs
83 20 010		12 1/2 320			1 21/32 42	1	1.74
83 20 015		17 430	45°	red powder-coated	2 3/64 60	1 1/2	3.13
83 20 020		22 1/2 570			2 3/4 70	2	5.5

Pipe Wrenches S-Type
DIN 5234

83
3

- slim, s-type jaw
- jaws with offset teeth in opposite directions for a strong grip
- induction hardened teeth for long life
- three-point gripping on pipes, self-locking
- i-beam handle design
- captive adjusting nut
- red powder-coated, jaws bright ground
- chrome vanadium electric steel; forged, multi stage oil-hardened

83 30 015

Product Number	Packaging	↔ Inch mm		Pliers	○ Ø Inch Ø mm	Inch	lbs
83 30 005		9 1/2 245		red powder-coated	1 3/8 35	1/2	1.04
83 30 010		12 1/2 320			1 21/32 42	1	1.86
83 30 015		16 1/2 420			2 3/64 60	1 1/2	3.31
83 30 020		21 1/4 540			2 3/4 70	2	5.68
83 30 030		26 3/4 680			4 3/4 120	3	9.33

Pipe Wrenches S-Type
with rapid adjustment

83
6

- time-saving, precise adjustment of the opening width at the press of a button directly on the workpiece
- less effort required due to self-locking action
- no unintentional shifting of the pliers
- pinch guard prevents operators´ fingers being pinched
- maximum load capacity due to completely hardened handles
- high-wear resistance due to the induction hardened teeth
- chrome vanadium electric steel; forged, multi stage oil-hardened

83 60 010

83 61 010

Product Number	Packaging	↔ Inch mm		Pliers	Handles	○ Ø Inch Ø mm	Inch	lbs
83 60 010		13 330		red powder-coated	-	1 21/32 42	1	1.96
83 60 015		16 1/2 420				2 3/64 60	1 1/2	3.30
83 61 010		13 330		grey powder-coated	plastic coated	1 21/32 42	1	2.11
83 61 015		16 1/2 420				2 3/64 60	1 1/2	3.24
83 61 020		22 560				2 3/4 70	2	5.47

Cycle Pliers
DIN ISO 5743

84

> for very narrow screw connections
> special tool steel; forged, oil-hardened

84 11 200
Straight head

84 21 200
20° angled head

84 11 200

84 21 200
20°

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Recess Ø Inch Ø mm	Head thickness Inch mm	lbs
84 11 200		8 200		black atramentized	polished	plastic coated	15/64 / 25/64 6 / 10	9/64 3.5	0.39
84 21 200		8 200	20°	black atramentized	polished	plastic coated	15/64 / 25/64 6 / 10	9/64 3.5	0.40

KNIPEX SmartGrip®
Water Pump Pliers with automatic adjustment
DIN ISO 8976

85

> ideal for frequent changeovers to workpieces of different sizes
> automatic adjustment for one-hand operation both for right-handed and left-handed use
> good access to the workpiece due to the slim dimensions in the head and joint area and flush joint bolt
> self-locking on pipes and nuts: no slipping off the workpiece and low handforce 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
> pinch guard prevents operators´ fingers being pinched
> locking lever for space saving transport with reliable closed handles
> chrome vanadium electric steel; forged, multi stage oil-hardened

85 01 250 US

Adjustment to the workpiece is automatic with the KNIPEX SmartGrip®! Just grip the pliers handles and squeeze – it's that easy!

Product Number	Packaging	↔ Inch mm	Pliers	Head	Handles	Ø Inch Ø mm	Inch mm	lbs
85 01 250 US		10 250	grey atramentized	polished	non-slip plastic coated	1 1/4 32	1 13/32 36	0.82

Spring Hose Clamp Pliers

85
51

Removing spring hose clamps has never been easier. These Hose Clamp Pliers have rotatable tips, making them maneuverable from different angles and easier to use in confined areas.

7 1/4" version is perfect for smaller engines up to 2"

10" version can be used on a variety of clamps up to 2 3/4"

- rotatable tips for securely gripping the clamps in all positions
- jaw inserts can also be rotated under load
- extremely good leverage which allows clamps to be opened and moved easily without great effort
- slim head design, narrow head width, and rotatable grip inserts make this an ideal tool especially in confined areas
- detach hoses gently using the serrated jaw behind the tips
- chrome vanadium electric steel; forged, oil-hardened

85 51 180 A

85 51 250 A

A single pair of pliers for various sizes of clamps up to 2 3/4" diameter. Rotating jaw inserts enable them to adapt to any position while still guaranteeing that clamps are securely positioned in the pliers.

APPLICATION AREAS CARS/TRUCKS
Air suction, cooling, charge air, water return, thermostat, fuel, heating

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Gripping capacity Ø Inch	Adjustment positions	⚖ lbs
85 51 180 A	X	7 1/4 180		grey atramentized	non-slip plastic coated	2	15	0.39
85 51 250 A	X	10 250				2 3/4	25	0.75

85 59 250 A	Spare part grip insert assortment for 85 51 180 A / 85 51 250 A / 85 51 250 AF

Spring Hose Clamp Pliers
with locking device

85 51

The locking device keeps the clamp open and stays locked in position without the need to grip and hold onto the pliers until the user is ready to move the clamp.

One-hand release

- rotatable tips for securely gripping the clamps in all positions
- jaw inserts can also be rotated under load
- extremely good leverage which allows clamps to be opened and moved easily without great effort
- slim head design, narrow head width, and rotatable grip inserts make this an ideal tool especially in confined areas
- detach hoses gently using the serrated jaw behind the tips
- chrome vanadium electric steel; forged, oil-hardened

85 51 250 AF

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Gripping capacity Ø Inch	Adjustment positions	⚖ lbs
85 51 250 AF	X	10 250		grey atramentized	non-slip plastic coated	2 3/4	19	0.77

85 59 250 A	Spare part grip insert assortment for 85 51 250 A / 85 51 250 AF

Hose Clamp Pliers
for Click Clamps

85 51

Opening and closing Click Clamps does not require a special skill; it requires a special tool. No need to replace the OEM clamp with a screw clamp, these pliers will not harm the clamps they're compressing, allowing them to be reused over and over again.

- rotating tips for reliably gripping of clamps in any position
- high leverage allows clamps to be opened and closed again comfortably and easily without a great deal of effort
- for easy working on fuel hoses, vacuum pipes with suction nozzles and many other applications
- detach hoses gently using the serrated jaw behind the tips
- slim head design, narrow head width, and rotatable grip inserts make this an ideal tool especially in confined areas
- chrome vanadium electric steel; forged, oil-hardened

85 51 180 C

85 51 250 C

Hose clamp without limit stop

Hose clamp with limit stop

Serrated gripping jaws for easy loosening of tight hoses

Rotating tips

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Diameter Ø inch Ø mm	Adjustment positions	⚖ lbs
85 51 180 C	X	7 1/4 180		grey atramentized	non-slip plastic coated	1 3/4 45	12	0.38
85 51 250 C	X	10 250				2 3/4 70	15	0.75

85 59 250 C	Spare part grip insert assortment for 85 51 180 C / 85 51 250 C

Pliers Wrenches

Pliers and a wrench in a single tool

DIN ISO 5743

86

Replaces a full set of inch and metric open end wrenches

Smooth jaws for damage free installation of plated fittings – working directly on chrome!

- adjustable tightening tool
- excellent for gripping, holding, pressing and bending applications
- zero backlash jaw surface pressure prevents damage to edges of sensitive components
- adjustment at the touch of a button directly on the workpiece
- parallel jaws allow infinitely variable gripping of all widths to the specified maximum size
- reliable catching of the hinge bolt: no unintentional shifting
- the action of the jaws allows bolted connections to be tightened and released quickly using the ratchet principle
- lever transmission greater than 10 - 1 for strong gripping power
- chrome vanadium electric steel; forged, oil-hardened

Length 5"
Mini pliers wrench for precision mechanics; particularly suitable for working on small bolted connections; very good access in very confined spaces

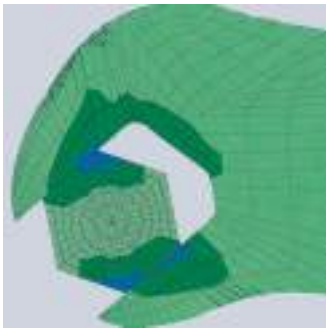
Length 6"
Ideal multipurpose wrench in pocket size; indispensable companion in emergency tool kit

Length 7 1/4"
With narrow gripping jaws – for fastening/loosening situations requiring a slim tool

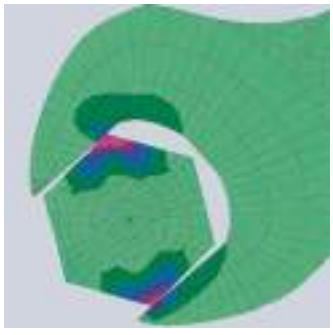
Length 10"
NOW with 2" capacity, lightweight, thinner head and adjustment scale for presetting the adjustment point

86 05 180 T BKA / 86 05 250 T BKA*
Pliers with integrated tether attachment point for tool drop protection system

86 43 250 US
15° angled pliers handle provides space for counter screw connections or bolted fittings on surfaces



Pliers wrench: zero backlash contact pressure, no damage to edges



Conventional open end wrench: edge pressure causes surface damage on edges of nuts and bolts

10" Version: opening width lasered onto the pliers head (metric on the front and imperial on the back)

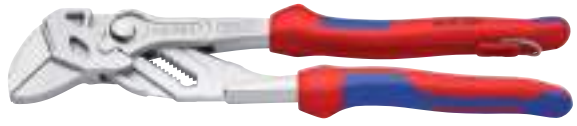
Fast adjustment by pushing a button

86 03 125

86 03 150

86 03 180

86 05 250

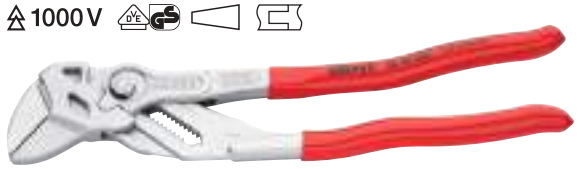


86 05 250 T

86 03 300

86 01 250

86 06 250 US
1000 V



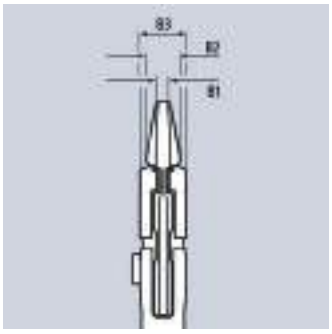
86 43 250 US
15°

Working on plated fittings without damaging the surface

Replaces a full set of inch and metric open end wrenches

Ideal for bending work

Opening width lasered onto the pliers head (metric on the front and imperial on the back)



The smooth jaws grip all parallel surfaces in the capacity range with a high degree of pressure if necessary and open up almost unlimited application possibilities for the pliers wrench: e.g. for tightening locknuts, exerting pressure to activate the adhesive power of contact adhesives, edge breaking in tile work, snapping cable ties, utilization as a small vice.

Product Number	Packaging	↔ Inch mm		Pliers	Handles	⬡↕ Inch mm	Adjustment positions	Dimensions B1 Inch mm	Dimensions B2 Inch mm	Dimensions B3 Inch mm	⚖ lbs
86 01 250	X	10 250		black atramentized	non-slip plastic coating	2 52	19	5/16 8.0	5/16 8.0	35/64 14.0	1.00
86 02 250	X	10 250		black atramentized	multi-component grips	2 52	19	5/16 8.0	5/16 8.0	35/64 14.0	1.03
86 03 125	X	5 125		chrome plated	plastic coated	7/8 23	11	1/8 3.0	13/64 5.0	3/8 9.5	0.23
86 03 150	X	6 150				1 27	14	3/16 4.7	9/32 7.0	13/32 10.5	0.39
86 03 180	X	7 1/4 180				1 3/8 35	13	13/64 5.0	5/16 8.0	15/32 12.0	0.56
86 03 250	X	10 250				2 52	19	5/16 8.0	5/16 8.0	35/64 14.0	1.18
86 03 300	X	12 300				2 3/8 60	22	3/8 9.5	3/8 9.5	19/32 15.0	1.61
86 05 150		6 150		chrome plated	multi-component grips	1 27	14	3/16 4.7	9/32 7.0	13/32 10.5	0.43
86 05 180	X	7 1/4 180			multi-component grips	1 3/8 35	13	13/64 5.0	5/16 8.0	15/32 12.0	0.61
86 05 180 T BKA	X	7 1/4 180			multi-component grips, integrated tether attachment point	1 3/8 35	13	13/64 5.0	5/16 8.0	15/32 12.0	0.66
86 05 250	X	10 250			slim multi-component grips	2 52	19	5/16 8.0	5/16 8.0	35/64 14.0	1.26
86 05 250 T BKA	X	10 250			multi-component grips, integrated tether attachment point	2 52	19	5/16 8.0	5/16 8.0	35/64 14.0	1.35
86 06 250 US	X	10 250	1000 V	chrome plated	insulated with multi-component grips, VDE-tested	2 52	19	5/16 8.0	5/16 8.0	35/64 14.0	1.14
86 43 250 US	X	10 250	15°	chrome plated	plastic coated	1 3/4 46	19	5/16 8.0	5/16 8.0	35/64 14.0	1.19

*Learn more about our tethered tool system on pages 207-211

Pliers Wrench XL

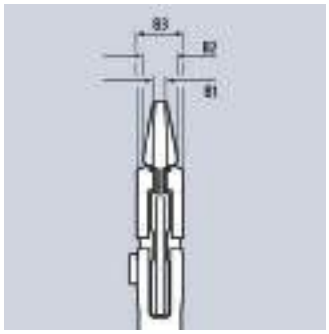
Pliers and a wrench in a single tool
DIN ISO 5743

86 03

86 03 400 US

The unique installation tool now in 16" (400 mm) length
For opening widths up to 3 3/8" (85 mm)

- excellent for gripping, holding, pressing and bending applications
- optimized adjustment to the workpiece with hand-friendly position of grips
- reliable catching of the hinge bolt: no unintentional shifting
- lever transmission greater than 10 – 1 for strong gripping power
- adjustable tightening tool
- replaces diverse, expensive, large open end wrenches up to 3 3/8"
- parallel jaws allow infinitely variable gripping of all widths to the specified maximum size
- smooth jaws, for gentle installation of quality union joints made from brass, red brass or stainless steel
- zero backlash jaw surface pressure prevents damage to edges of sensitive components
- the action of the jaws allows bolted connections to be tightened and released quickly using the ratchet principle
- adjustment at the touch of a button directly on the workpiece
- chrome vanadium electric steel; forged, oil-hardened



Open end wrenches with fixed opening widths are expensive, especially when used for large union joints.
The KNIPEX Pliers Wrench XL, with its' adjustable jaw opening up to AF 3 3/8" (85 mm), offers enormous savings potential.

Product Number	Packaging	↔ Inch / mm	Pliers	Handles	⬡ Inch / mm	Adjustment positions	Dimensions B1 Inch / mm	Dimensions B2 Inch / mm	Dimensions B3 Inch / mm	⚖ lbs
86 03 400 US		16 / 400	chrome plated	plastic coated	3 3/8 / 85	25	31/64 / 12.5	5/8 / 16	25/32 / 20	3.22

adjustable tightening tool – replaces diverse, expensive, large open end wrenches

parallel jaws give a more solid grip; its design allows flexible adjustment up to a maximum size of 3 3/8"

smooth jaws, for damage free installation of quality union joints made from brass, red brass, stainless steel or chrome plated material

zero backlash jaw pressure prevents damage to edges of sensitive components

the ratchet type principle allows quick and easy tightening and release of bolted connections

push-button for adjustment on the workpiece


KNIPEX
MADE IN GERMANY

KNIPEX Cobra®

High-Tech Water Pump Pliers
DIN ISO 8976

87 0

Cobra®

- adjustment at the touch of a button directly on the workpiece
- fine adjustment for optimum adaptation to different size workpieces and a comfortable gripping position
- self-locking on pipes and nuts: no slipping off the workpiece and low handforce 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
- reliable catching of the hinge bolt: no unintentional shifting
- pinch guard prevents operators´ fingers being pinched
- chrome vanadium electric steel; forged, multi stage oil-hardened

87 02 250 / 87 02 250 T BKA
With slim, two-color multi-component sleeves for better handling and easier transport

87 02 180 T BKA / 87 02 250 T BKA / 87 02 300 T BKA*
Pliers with integrated tether attachment point for tool drop protection system

Fine adjustment by pushing a button: fast and comfortable

Fast and firm adjustment directly on the workpiece

Square

Hex

Round

Flat

KNIPEX Cobra® – the High-Tech Water Pump Pliers

No more time-consuming test-adjusting of the correct opening size. Just position the upper jaw to the workpiece, push button and slide close the lower jaw, ingeniously simple.

87 01 125

87 01 150

87 01 180

87 01 250

87 01 300

87 02 250

87 02 250 T BKA






Teeth set against the direction of rotation have a self-clamping effect and prevent slipping off the workpiece

The Original Push-Button Pliers

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	○ Ø Inch Ø mm	⬡ Inch mm	Adjustment positions	⚖ lbs
87 01 125	X	5 125		grey atramentized	polished	non-slip plastic coated	1 1/16 27	1 1/16 27	13	0.19
87 01 150	X	6 150		grey atramentized	polished	non-slip plastic coated	1 1/4 32	1 3/16 30	11	0.32
87 01 180	X	7 1/4 180		grey atramentized	polished	non-slip plastic coated	1 1/2 42	1 27/64 36	18	0.40
87 01 250	X	10 250		grey atramentized	polished	non-slip plastic coated	2 50	1 3/4 46	25	0.74
87 01 300	X	12 300		grey atramentized	polished	non-slip plastic coated	2 3/4 70	2 3/64 60	30	1.22
87 02 180	X	7 1/4 180		grey atramentized	polished	multi-component grips	1 1/2 42	1 27/64 36	18	0.43
87 02 180 T BKA	X	7 1/4 180		grey atramentized	polished	multi-component grips, integrated tether attachment point	1 1/2 42	1 27/64 36	18	0.48
87 02 250	X	10 250		grey atramentized	polished	slim multi-component grips	2 50	1 3/4 46	25	0.81
87 02 250 T BKA	X	10 250		grey atramentized	polished	slim multi-component grips, integrated tether attachment point	2 50	1 3/4 46	25	0.81
87 02 300	X	12 300		grey atramentized	polished	multi-component grips	2 3/4 70	2 3/64 60	30	1.33
87 02 300 T BKA	X	12 300		grey atramentized	polished	multi-component grips, integrated tether attachment point	2 3/4 70	2 3/64 60	30	1.40

*Learn more about our tethered tool system on pages 207-211

KNIPEX Cobra® XL/XXL

Pipe Wrenches and High-Tech Water Pump Pliers

DIN ISO 5743

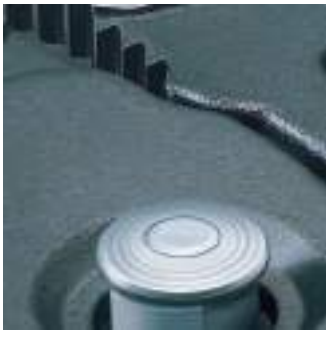
87 0

- greater gripping capacity and lighter weight than comparable pipe gripping wrenches
- fast push-button adjustment directly on the workpiece, no unintentional slipping of the joint
- fine adjustment for optimum adaptation to different size workpieces and a comfortable gripping position
- self-locking on pipes and nuts: no slipping off the workpiece and low handforce 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
- pinch guard prevents operators´ fingers being pinched
- chrome vanadium electric steel; forged, multi stage oil-hardened

Cobra®

The KNIPEX Cobra® XL and XXL offer the power and comfort of water pump pliers while being lighter in weight and having a greater gripping capacity than comparable pipe wrenches. The Cobra® XL can grip a 3 1/2" pipe coupling and weighs 50% less than 2" pipe wrenches, which have a much lower gripping capacity. With its compact length of 16" (400 mm), the Cobra XL is perfect for the plumber's toolbox.

The Cobra® XXL with its capacity of up to 4 1/2" only weighs as much a 2" pipe wrench. It's 22" size makes it the biggest pliers around!



Fine adjustment by pushing a button: fast and comfortable

Fast and firm adjustment directly on the workpiece

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Ø Inch Ø mm	Inch mm	Adjustment positions	lbs
87 01 400 US	X	16 400		grey atramentized	polished	plastic coated	3 1/2 90	3 3/4 95	27	2.62
87 01 560 US	X	22 560		grey atramentized	polished	plastic coated	4 1/2 115	4 3/4 120	20	6.06

KNIPEX Cobra®...matic

High-Tech Water Pump Pliers
DIN ISO 8976

87 1

87 11 250

All features of the KNIPEX Cobra® 87 01 250 along with these special features:

> automatic adjustment at the touch of a button directly on the workpiece
> the securely positioned spring ensures that the pliers close automatically once the push-button is activated (one-hand operation!)
> chrome vanadium electric steel; forged, multi stage oil-hardened

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	○ Ø Inch Ø mm	⬡ Inch mm	Adjustment positions	⚖ lbs
87 11 250	X	10 250		grey atramentized	polished	non-slip plastic coated	2 50	1 13/16 46	25	0.75
87 19 250	Spare spring for 87 11 250									

KNIPEX Cobra® QuickSet

High-Tech Water Pump Pliers
DIN ISO 8976

87 2

87 21 250

87 21 300

87 22 250

Fully open, push, grab!
Fast adjustment on the workpiece by sliding the pliers handle

> combines the proven, reliable locking of the hinge bolt with an additional push function which makes it easier to work in very confined and inaccessible areas
> adjustment directly on the workpiece by sliding the pliers handle
> reliable locking of the hinge bolt with the first workload. The gripping width of the pliers is then fixed and can only be adjusted by pressing the button
> the pliers stay locked in place and can only be readjusted by pressing the button and resetting
> chrome vanadium electric steel; forged, multi stage oil-hardened

Press the button – open pliers completely

Position top jaw and simply slide and close pliers

The push-button stays locked in place once the handles are squeezed

Proven Cobra® functions

> self-locking on pipes and nuts: no slipping off the workpiece and low handforce required
> fine adjustment for optimum adaptation to different size workpieces and a comfortable handle width

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	○ Ø Inch Ø mm	⬡ Inch mm	Adjustment positions	⚖ lbs
87 21 250	X	10 250		grey atramentized	polished	non-slip plastic coated	2 50	1 3/4 46	25	0.74
87 21 300	X	12 300					2 3/4 70	2 3/64 60	25	1.20
87 22 250	X	10 250		grey atramentized	polished	slim multi-component grips	2 50	1 3/4 46	25	0.81

KNIPEX Cobra® Insulated

High-Tech Water Pump Pliers, Insulated

DIN ISO 8976 IEC 60900 DIN EN 60900

87 26

- adjustment by shifting the jaw directly on to the workpiece: fast, secure and comfortable handling
- opening at the touch of a button apart from the workpiece
- fine adjustment for optimum adaptation to different workpiece sizes and comfortable gripping position
- good access to the workpiece due to slim size in the head and joint area
- self-locking on pipes and nuts: no slipping off the workpiece and low handforce 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
- pinch guard prevents operators´ fingers being pinched
- chrome vanadium electric steel; forged, multi stage oil-hardened

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

87 28 250 US

1000 V ASTM

Quick adjustment to the workpiece without using a push-button

Just push the pliers handle to adjust

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	○ Ø Inch Ø mm	⬡ Inch mm	Adjustment positions	⚖ lbs
87 28 250 US	X	10 250	1000 V ASTM	grey atramentized	polished	insulated multi-component grips, ASTM-tested	2 50	1 3/4 46	24	0.88

KNIPEX Raptor™ Pliers

DIN ISO 5743

87 4

- for inch and metric nuts and screws with widths across flats from 3/8" - 1 1/4" (10 - 32 mm); self-locking in the range from 11/16" (17 mm): no slipping off the workpiece
- reliable and tight gripping of rounded, rusty or overly painted nuts and screws
- ideal for work on vehicle brake systems
- quick tightening of nuts and bolts using ratchet action
- adjustment at the touch of a button directly on the workpiece, one-hand operation
- fine adjustment for optimum adaptation to different size workpieces and a comfortable gripping position
- box-joint design: high stability because of double guide
- reliable catching of the hinge bolt: no unintentional shifting
- favorable lever action: optimum transmission of force
- pinch guard prevents operators´ fingers being pinched
- replaces a set of wrenches, ideal for tightening locknuts
- chrome vanadium electric steel; forged, multi stage oil-hardened

87 41 250

The Raptor Pliers combines the convenience of the comfortable push-button adjustment on the workpiece and the function of an all-purpose tightening tool. Jaw gripping with zero backlash prevents slipping on the bolt head or rounding edges.

Even rusty or thick coated bolted connections which have no surfaces capable of being gripped reliably by a conventional wrench can be managed by the exceptionally powerful closing gripping jaws of this wrench.

Grips rusted nuts with rounded edges

Self-locking: no slipping off workpieces; less effort required

Raptor™ Pliers as the second spanner for tightening locknuts

Fine adjustment by pushing a button: fast and comfortable

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	⬡ Inch mm	Adjustment positions	⚖ lbs
87 41 250	X	10 250		grey atramentized	polished	non-slip plastic coated	3/8 - 1 1/4 10 - 32	15	0.72

KNIPEX Cobra® ES

High-Tech Water Pump Pliers, extra-slim
DIN ISO 8976

87 5

Fine adjustment by pushing a button: fast and comfortable

Slim head and joint area (compared to conventional water pump pliers)

Optimum access to the workpiece. Ideal for service and maintenance, equipment repair, automotive and general industry

Grips nuts up to 1 3/8" (34 mm) across flats

- ideal for service and maintenance, equipment repair, automotive and general industry
- long, narrow jaws
- good access to the workpiece due to very slim construction of head and joint area
- grips flat material due to three-point rest
- adjustment at the touch of a button directly on the workpiece
- fine adjustment for optimum adaptation to different size workpieces and a comfortable gripping position
- self-locking on pipes and nuts: no slipping off the workpiece and low handforce required
- box-joint design: high stability because of double guide
- reliable catching of the hinge bolt: no unintentional shifting
- favorable lever action: optimum transmission of force
- pinch guard prevents operators´ fingers being pinched
- chrome vanadium electric steel; forged, multi stage oil-hardened

87 51 250

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	○ Ø Inch Ø mm	⬡ Inch mm	Max. parallel opening width Inch mm	Max. gripping depth Inch mm	Adjustment positions	⚖ lbs
87 51 250	X	10 250		grey atramentized	polished	non-slip plastic coated	1 1/4 32	1 3/8 34	1 1/2 37	1 5/8 42	19	0.72

KNIPEX Alligator®

Water Pump Pliers

DIN ISO 8976

88

More output and comfort compared to conventional water pump pliers of the same length: offers 9 adjustment positions for 30% more gripping capacity

- good access to the workpiece due to slim size in the head and joint area
- self-locking on pipes and nuts: no slipping off the workpiece and low handforce 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
- robust construction; particularly suitable for outdoor work
- pinch guard prevents operators´ fingers being pinched
- chrome vanadium electric steel; forged, multi stage oil-hardened

88 02 250 / 88 02 250 T BKA
Slim, two-color multi-component sleeves for better handling and easier transport

88 02 250 T BKA / 88 02 300 T BKA*
Pliers with integrated tether attachment point for tool drop protection system

Self-clamping on pipes and nuts: no slipping off the workpiece. Less handforce is required since handles do not need to be squeezed. Simply put pressure on the upper handle for a powerful grip.

88 01 180

88 01 250

88 02 250

88 02 250 T BKA

88 07 300
1000 V

88 08 250 US
1000 V ASTM

Alligator®

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	○ Ø Inch Ø mm	⬡ Inch mm	Adjustment positions	⚖ lbs
88 01 180	X	7 1/4 180		black atramentized	polished	non-slip plastic coated	1 1/2 42	1 27/64 36	9	0.40
88 01 250	X	10 250					2 50	1 13/16 46	9	0.75
88 01 300	X	12 300					2 3/4 70	2 3/64 60	9	1.19
88 02 180	X	7 1/4 180		black atramentized	polished	multi-component grips	1 1/2 42	1 27/64 36	9	0.47
88 02 250	X	10 250		black atramentized	polished	slim multi-component grips	2 50	1 13/16 46	9	0.83
88 02 250 T BKA	X	10 250		black atramentized	polished	slim multi-component grips, integrated tether attachment point	2 50	1 13/16 46	9	0.88
88 02 300	X	12 300		black atramentized	polished	multi-component grips	2 3/4 70	2 3/64 60	9	1.30
88 02 300 T BKA	X	12 300		black atramentized	polished	multi-component grips, integrated tether attachment point	2 3/4 70	2 3/64 60	9	1.39
88 07 300		12 300	1000 V	chrome plated	polished	plastic dipped insulated, VDE-tested	2 3/4 70	2 3/64 60	9	1.46
88 08 250 US	X	10 250	1000 V ASTM	black atramentized	polished	insulated, multi-component handles, ASTM-tested	1 31/32 50	1 13/16 46	9	0.87

*Learn more about our tethered tool system on pages 207-211

KNIPEX Alligator® XL

Pipe Wrench and Water Pump Pliers

DIN ISO 5743

88

The classic model in 16" (400 mm) length

Robust construction; particularly suitable for outdoor work

- good access to the workpiece due to slim size in the head and joint area
- pinch guard prevents operators´ fingers being pinched
- gripping surfaces with special hardened teeth, teeth hardness (approx. 61 HRC): low wear and reliable gripping
- self-locking on pipes and nuts: no slipping off the workpiece and low handforce required
- box-joint design: high stability because of double guide
- robust adjustment mechanism, dirt resistant, easy to clean; particularly suitable for outdoor work
- 11-notch adjustment positioning with optimized adjustment to the workpiece and user-friendly handle position
- gripping capacity up to 3 1/2"
- chrome vanadium electric steel; forged, multi stage oil-hardened

88 01 400

The KNIPEX Alligator® XL offers the performance and comfort of a water pump pliers while being 50% lighter in weight and having a greater gripping capacity (3 1/2") than comparable pipe wrenches.

With their handy length of 16" there is a place for KNIPEX Alligator® XL in every tool box.

Robust pliers for very hard applications

gripping surfaces with special hardened teeth, teeth hardness (approx. 61 HRC): low wear and stable gripping

self-locking on pipes and nuts: no slipping off the workpiece and low handforce required

box-joint design: high stability because of the double guide

robust adjustment mechanism, dirt resistant, easy to clean; particularly suitable for outdoor work

11-notch adjustment for optimized adjustment to the workpiece and a comfortable handle position

Product Number	Packaging	↔ Inch / mm		Pliers	Head	Handles	○ Ø Inch / Ø mm	⬡ Inch / mm	Adjustment positions	⚖ lbs
88 01 400	X	16 / 400		black atramentized	polished	non-slip plastic coated	3 1/2 / 90	3 3/4 / 95	11	2.62


KNIPEX

Water Pump Pliers
Slip joint
DIN ISO 8976

89

89 01 250

- easy, convenient engagement in 5 different positions
- tongue and groove slip joint, self-locking on pipes and nuts
- pinch guard prevents operators´ fingers being pinched
- gripping surfaces with special hardened teeth, teeth hardness (approx. 62 HRC): low wear for secure grip
- chrome vanadium electric steel; forged, multi stage oil-hardened

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	○ Ø Inch Ø mm	⬡ Inch mm	⚖ lbs
89 01 250		10 250		black atramentized	polished	non-slip plastic coated	1 5/16 34	1 27/64 36	0.75

Mini Water Pump Pliers
Slip joint
DIN ISO 8976

90

90 01 125

- easy, convenient engagement in 4 different positions
- tongue and groove slip joint
- all strain removed from the joint screw, hence no wear on the pivot
- chrome vanadium electric steel; forged, oil-hardened

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	○ Ø Inch Ø mm	⬡ Inch mm	⚖ lbs
90 01 125		5 125		black atramentized	polished	non-slip plastic coated	11/16 17	35/64 14	0.23

Pipe Cutter
for flexible pipes and flexible hoses

90 20

90 20 185

- for cutting thin walled pipes (conduit plastic pipes) and flexible hoses with fabric reinforcement of plastic and rubber up to 1" (25 mm) exterior dia. (not suitable for cutting cables)
- with opening spring and locking lever
- tool body: plastic, fiberglass-reinforced
- blades: special tool steel, oil-hardened, interchangeable

With replaceable blade

Product Number	Packaging	↔ Inch mm		Handles	Cutting capacities Ø Inch Ø mm	⚖ lbs
90 20 185		7 1/4 185		tough fiberglass reinforced plastic	1 25	0.40

90 29 185	Spare blade for 90 20 185

Pipe Cutter
for composite pipes and protective tubes

90 25

Composite pipes of 1/2" – 1" (12 – 25 mm) dia. are cut cleanly and without deformation

Clean cut of corrugated conduit 3/4" – 1 3/8" (18 – 35 mm) dia.

- for cutting composite pipes with a diameter of 1/2" – 1" (12 - 25 mm) and for cutting corrugated conduit pipes with a diameter of 3/4" – 1 3/8" (18 - 35 mm)
- a calibration arbor can be fitted for Geberit composite pipes with 29/64" and 38/64" (11.5 and 15.0 mm) dia.
- tool body: high-grade chrome vanadium electric steel, oil-hardened
- blades: special tool steel, oil-hardened, interchangeable

90 25 20

PATENTED

Product Number	Packaging	↔ Inch / mm		Tool	Handles	Cutting capacities composite pipes Ø Inch / Ø mm	Cutting capacities protective pipes Ø Inch / Ø mm	Blade length Inch / mm	lbs
90 25 20		8 1/4 / 210		galvanized	multi-component grips	1/2 - 1 / 12 - 25	3/4 - 1 3/8 / 18 - 35	1 / 25	0.73

90 29 01	Spare blade for 90 25 20
90 29 02	1 pair of spare blades for 90 25 20
90 29 15	Calibration arbor for 90 25 20

Pipe Cutter
for plastic conduit pipes (electrical installation work)

94 10

- for clean cutting of plastic pipes (e.g. plastic clad pipes) with a 15/64" – 1 3/8" (6-35 mm) dia.
- not suitable for cutting cables
- blade is replaceable and can be retracted in any position
- low force requirement due to special blade geometry and optimum transmission
- minimum operator fatigue due to ergonomic handle design and ratchet blade feed in stages
- housing: die-cast aluminum, red lacquered
- blade: special tool steel; oil-hardened

94 10 185

Product Number	Packaging	↔ Inch / mm		Body	Cutting capacities Ø Inch / Ø mm	Cutting edge length Inch / mm	lbs
94 10 185		7 1/4 / 185		die-cast aluminum body, red lacquered	15/64 - 1 3/8 / 6.0 - 35.0	1 3/8 / 35	1.29

94 19 185	Spare blade for 94 10 185
94 19 185 02	Torsion spring for 94 10 185

Pipe Cutter
for composite and plastic pipes

90 25

- for cutting thick walled plastic and composite pipes from 1 – 1 37/64" (26 - 40 mm) dia.
- cuts pipes according to the ratchet principle in several strokes
- self-adapting pipe support positions pipes of various diameters correctly for a rectangular cut
- tool body: high-grade chrome vanadium electric steel, oil-hardened
- blades: special tool steel, oil-hardened, interchangeable

Clean cut of thick-walled plastic and composite pipes

Not suitable for thin-walled conduit pipes. Please use article number 90 20 185 for these

90 25 40
PATENTED

Product Number	Packaging	↔ Inch mm		tool	Handles	Cutting capacities Ø Inch Ø mm	Cutting edge length Inch mm	⚖ lbs
90 25 40		8 1/4 210		galvanized	multi-component grips	1 - 1 37/64 26 - 40	1 37/64 40	1.10

90 29 40	Spare blade for 90 25 40

Punch Lock Riveters

90 4

- to join metal section sheets used in dry walling with a lock seam
- for U- and C-shaped sections with max 3/64" (5/64 x 1/64) metal (1.2 mm; 2 x 0.6 mm)
- minimal handforce required due to optimum lever transmission
- pliers body: special tool steel, rolled, oil-hardened

Setting the pliers for connection of two metal section sheets

The punching tool is pressed through the metal section sheets

90 42 250
For one-hand operation

90 42 250

90 42 340

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Max. Capacity Inch mm	⚖ lbs
90 42 250		10 250		burnished	multi-component grips	3/64 (5/64 x 1/64) 1.2 (2 x 0.6)	1.49
90 42 340		13 25/64 340		burnished	multi-component grips	3/64 (5/64 x 1/64) 1.2 (2 x 0.6)	1.96

90 49 340	Spare punch for 90 42 340
90 49 340 M	Spare die for 90 42 340

Sheet Metal Nibbler

90 55

Notching and chip breaking in a single pass

Notching without chip breaking

- for cutting iron, copper or aluminum plate up to max. 3/64" (1.2 mm) thickness, plastic up to max. 5/64" (2.0 mm) thickness
- materials are cut without deformation
- clean cut edges
- with chip breaker
- easy handling
- cutting width: 7/64" (2.7 mm)
- tool body: special tool steel, rolled, oil-hardened
- blades: special tool steel, oil-hardened, interchangeable

90 55 280

WARNING: This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm		Tool	Handles	⚖ lbs
90 55 280		11 280		nickel plated	multi-component grips	1.02
90 59 280	Spare blade for 90 55 280					

Notching Pliers

90 61

- special pliers for notching out recesses in plastic ledges and plastic casing boxes for electric and sanitary installation
- notches can be enlarged by initial and final cut
- clean cut edges
- easy handling
- with opening spring, opening limiter and locking lever
- pliers body: special tool steel, rolled, oil-hardened

90 61 20

PATENTED

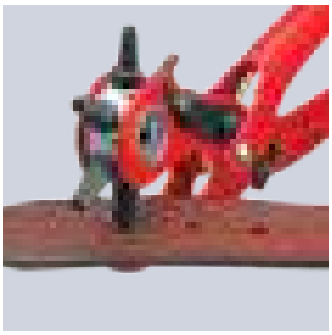
The KNIPEX Notching Pliers produce the most common notches in plastic ledges and cable ducts in a simple, fast and clean way. No time-consuming sawing out or nibbling and no additional work required.

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Capacity	⚖ lbs
90 61 16		10 250		burnished	plastic grips	5/8 x 1 1/4 Inch 16 x 32 mm	0.89
90 61 20		10 250				25/32 x 1 9/64 Inch 20 x 29 mm	0.91

Revolving Punch Pliers

90 7

> for punching holes in leather, textiles and plastic material
> with six rotating punches: 5/64", 3/32", 1/8", 9/64", 5/32", 13/64" (2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 5.0 mm) dia.
> with opening spring and locking lever
> powder-coated for reliable protection against rust
> pliers body and punches: special tool steel, oil-hardened



Interchangeable punches

90 70 220

Product Number	Packaging	↔ Inch mm		Pliers	Finish	⚖ lbs
90 70 220	X	8 3/4 220		red powder-coated	powder-coated	0.55

Tile Nibbling Pincer

Parrot beak pincer

91 0

> enlarges holes in tiles and forms tile edges
> special tool steel; forged, oil-hardened

91 00 200

Product Number	Packaging	↔ Inch mm	Pliers	Head	⚖ lbs
91 00 200		8 200	black atramentized	polished	0.35

Tile Breaking Pliers

91

Work without cutting-off machine, particularly for fine strips.
For less mess, dust, noise and effort.

For the precise cutting (breaking) of tiles and porcelain stoneware after scoring with a tile cutter

Ideal for long and thick tiles

> parallel jaws evenly distribute force that is 10x your strength
> a precise cut of floor or wall tiles after scoring with a tile cutter
> replaceable plastic positioning jaw tilts for a clean break line and optimum protection of the tiles against damage
> chrome vanadium electric steel, forged, oil-hardened

91 13 250

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Adjustment positions	⚖ lbs
91 13 250		10 250		chrome plated	plastic coated	17	1.29

91 19 250 01	Spare jaw for 91 13 250

Glass Breaking Pincer

DIN ISO 5743

91 3

> for breaking glass on a scored line
> special tool steel; forged, oil-hardened

91 31 180

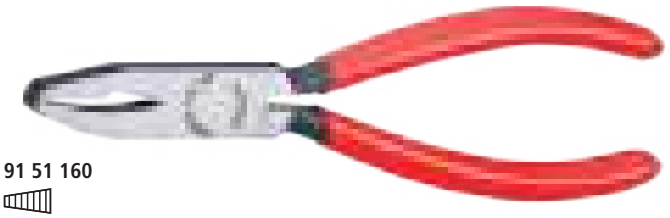
Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Jaw width Inch mm	⚖ lbs
91 31 180		7 1/4 180		black atramentized	polished	plastic coated	15/16 24	0.52

Glass Nibbling Pincers
DIN ISO 5743

91

> for breaking off narrow strips of glass to a scored line
> for finishing off glass edges to required profile
> special tool steel; forged, oil-hardened

91 71 160
Narrow version, with opening spring



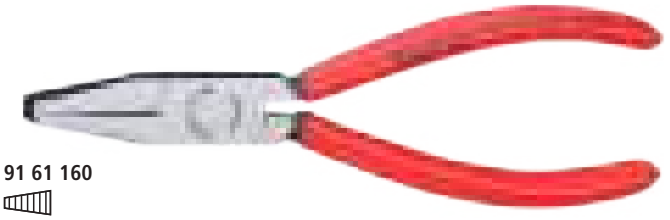
91 51 160

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Jaw width Inch mm	⚖ lbs
91 51 160		6 1/4 160		black atramentized	polished	plastic coated	3/8 9.5	0.33
91 71 160		6 1/4 160		black atramentized	polished	plastic coated	5/32 4.0	0.31

Flat Nose Grozing Pliers
DIN ISO 5743

91 6

> with soft gripping jaws
> for trimming glass edges, e. g. when making leaded glass windows
> special tool steel; forged, oil-hardened



91 61 160

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Jaw width Inch mm	⚖ lbs
91 61 160		6 1/4 160		black atramentized	polished	plastic coated	3/8 9.5	0.31

Hog Ring Pliers

91 92

> for the professional replacement of automotive upholstery to the seat frame compatible with all popular upholstery rings or hog rings
> recessed groove located in the jaws securely hold the hog rings in the proper position before they are crimped
> closing spring holds the pliers closed which allows for the ring to be securely positioned before being compressed
> high transmission ratio allows for easy compression of the hog rings
> multi-component grips for added hand comfort
> durable and strong
> special tool steel; forged, oil-hardened

Reliable use for repairs to car seats, e.g. to renew seat cover, replace sensor or seat heating mats

91 92 180

Product Number	Packaging	↔ Inch mm	Pliers	Handles	⚖ lbs
91 92 180		7 1/4 185	mirror-polished	multi-component grips	0.43

> smooth gripping surfaces
> non-reflective matte finish

92 02 53
For SMD-technology*; angled tips, width approx. 3/64" (1 mm); gripping surfaces matte finish for optimum grip; Chrome nickel steel: stainless, anti-magnetic (18/10), very popular electronics quality

92 02 54
For SMD-technology*; angled tips, width approx. 3/64" (1 mm) dia.; with integrated profile for reliable gripping of cylindrical components of approx. 1/32" (0.6 mm) dia.; gripping surfaces matte finished for optimum grip; Chrome nickel steel: stainless, anti-magnetic (18/10), very popular electronics quality

92 02 55
Gripping jaws 9/64" (3.5 mm) wide, for cylindrical components of 1/8" (0.8 mm) dia.; serrated handles; stainless, anti-magnetic and acid-proof

92 12 52
Bent tips; extra strong tips; stainless, anti-magnetic

92 02 53
45°

92 02 54
45°

92 02 55

92 12 52
85°

Product Number	Packaging	↔ Inch mm		Finish	⚖ lbs
92 02 53		4 3/4 120	45°	stainless, anti-magnetic	0.04
92 02 54		4 3/4 120	45°	stainless, anti-magnetic	0.03
92 02 55		4 1/2 115		stainless, anti-magnetic, acid-proof	0.04
92 12 52		4 3/4 120	85°	stainless, anti-magnetic	0.04

* SMD-Technology: technique for soldering surface mounted components on printed circuit boards without using holes

Precision Tweezers ESD

- chrome nickel steel: stainless, anti-magnetic (18/10), very popular electronics quality
- ESD coating: non-reflective black, with a surface resistance of approx. 10^5 Ohm
- tips non-reflective brushed
- gripping surfaces matte finish for optimum grip

92 08 78 ESD
For SMD-technology*; bent tips; smooth gripping surfaces

92 08 79 ESD
Shaped to grip horizontal cylindrical components of 3/64" (1 mm) dia.; Smooth gripping surfaces; serrated handles

92 28 69 ESD
Straight tips; strong tip; smooth gripping surfaces

92 28 70 ESD
Straight tips; fine tip; smooth gripping surfaces

92 28 71 ESD
Needle-pointed tips; straight tips; smooth gripping surfaces

92 28 72 ESD
Solid; long tips; straight tips; smooth gripping surfaces

92 38 75 ESD
Sickle-shaped tips; smooth gripping surfaces

92 58 74 ESD
Round tips, approx. 5/64" (2 mm) wide; straight tips; smooth gripping surfaces

92 78 77 ESD
Round tips, approx. 9/64" (3.5 mm) wide; straight tips; serrated gripping surfaces; serrated handles

92 88 73 ESD
Rectangular tips, approx. 1/32" (0.9 mm) wide; gripping surfaces with fine transverse serration

92 08 78 ESD

92 08 79 ESD

92 28 69 ESD

92 28 70 ESD

92 28 71 ESD

92 28 72 ESD

92 38 75 ESD

92 58 74 ESD

92 78 77 ESD

92 88 74 ESD

Product Number	Packaging	↔ Inch mm		Finish	⚖ lbs
92 08 78 ESD		4 3/4 120	∠45°	stainless, anti-magnetic, electrically dissipative	0.04
92 08 79 ESD		4 3/4 120		stainless, anti-magnetic, electrically dissipative	0.04
92 28 69 ESD		5 1/8 130		stainless, anti-magnetic, electrically dissipative	0.04
92 28 70 ESD		4 1/4 110		stainless, anti-magnetic, electrically dissipative	0.03
92 28 71 ESD		4 1/4 110		stainless, anti-magnetic, electrically dissipative	0.04
92 28 72 ESD		5 1/4 135		stainless, anti-magnetic, electrically dissipative	0.05
92 38 75 ESD		4 3/4 120	∠45°	stainless, anti-magnetic, electrically dissipative	0.04
92 58 74 ESD		4 3/4 120		stainless, anti-magnetic, electrically dissipative	0.04
92 78 77 ESD		5 3/4 145		stainless, anti-magnetic, electrically dissipative	0.06
92 88 73 ESD		5 1/8 130		stainless, anti-magnetic, electrically dissipative	0.04

* SMD-Technology: technique for soldering surface mounted components on printed circuit boards without using holes

Precision Tweezers
with pointed shape

92

> for fine mounting work
> straight tips
> smooth gripping surfaces
> particularly slim tips

92 22 04
Non-reflective matte finish; gripping surfaces matte finish for optimum grip; Chrome nickel steel: stainless, anti-magnetic (18/10), very popular electronics quality

92 22 06
Non-reflective matte finish; gripping surfaces matte finish for optimum grip; Chrome nickel steel: stainless, anti-magnetic (18/10), very popular electronics quality

92 22 07
Non-reflective matte finish; stainless, anti-magnetic and acid-proof

92 23 05
TITANIUM; electrically conductive; lightweight; non-reflective matte finish; stainless, anti-magnetic and acid-proof

92 24 01
Mirror finish nickel plated and polished

92 22 04

92 22 06

92 22 07

92 23 05

92 24 01

Product Number	Packaging	↔ Inch mm		Finish	⚖ lbs
92 22 04		5 1/8 130		stainless, anti-magnetic	0.04
92 22 06		4 3/4 120		stainless, anti-magnetic	0.04
92 22 07		4 1/2 115		stainless, anti-magnetic, acid-proof	0.03
92 23 05		4 3/4 120		TITANIUM, anti-magnetic, acid-proof, stainless	0.02
92 24 01		4 3/4 120		chrome plated	0.04

Precision Tweezers
with needle-pointed shape

92

> for ultra fine mounting work
> extra fine tips
> smooth gripping surfaces
> stainless, anti-magnetic
> non-reflective matte finish

92 22 12
Straight tips

92 22 13
Solid; straight tips; stainless, anti-magnetic and acid-proof

92 32 29
Sickle-shaped tips; Chrome nickel steel: stainless, anti-magnetic (18/10), very popular electronics quality; gripping surfaces matte finish for optimum grip

92 34 28
Bent tips

92 22 12

92 22 13

92 32 29
45°

92 34 28
45°

Product Number	Packaging	↔ Inch mm		Finish	⚖ lbs
92 22 12		4 105		stainless, anti-magnetic	0.03
92 22 13		4 3/4 120		stainless, anti-magnetic, acid-proof	0.06
92 32 29		4 3/4 120	45°	stainless, anti-magnetic	0.04
92 34 28		4 105	45°	stainless, anti-magnetic	0.03

Precision Tweezers
with dowel pin, pointed shape

92

- universal application
- narrow tips
- gripping surfaces with fine transverse serration
- serrated handles

92 22 35
Straight tips; non-reflective matte finish; stainless, anti-magnetic and acid-proof

92 24 34
Straight tips; chrome plated

92 34 36
Bent tips; chrome plated

92 34 37
Bent tips; black non-reflective lacquered

92 22 35

92 24 34

92 34 36
45°

92 34 37
45°

Product Number	Packaging	↔ Inch mm		Finish	lbs
92 22 35		6 155		stainless, anti-magnetic, acid-proof	0.05
92 24 34		6 155		chrome plated	0.05
92 34 36		6 155	45°	chrome plated	0.05
92 34 37		6 155	45°	black lacquered	0.05

Precision Tweezers Insulated
IEC 60900 DIN EN 60900

92

- insulated and tested according to IEC 60900 : ASTM F1505
- plastic dipped insulated
- nickel plated
- spring steel, high-strength

92 27 61
For ultra fine mounting work; extra fine tips; straight tips; gripping surfaces matte finish for optimum grip

92 27 62
Straight tips; gripping surfaces with fine transverse serration

92 37 64
Bent tips; gripping surfaces with fine transverse serration

92 67 63
Straight tips; serrated gripping surfaces

92 27 61
1000 V

92 27 62
1000 V

92 37 64
1000 V 45°

92 67 63
1000 V

Product Number	Packaging	↔ Inch mm		Finish	lbs
92 27 61		5 1/8 130	1000 V	plastic dipped insulated, VDE-tested	0.07
92 27 62		6 150	1000 V	plastic dipped insulated, VDE-tested	0.08
92 37 64		6 150	1000 V 45°	plastic dipped insulated, VDE-tested	0.08
92 67 63		5 3/4 145	1000 V	plastic dipped insulated, VDE-tested	0.10

Precision Tweezers
with blunt shape

92

> universal application
> straight tips
> wide, round tips
> serrated handles

92 44 42
Jewelers tweezer; round tips, approx. 5/64" (2 mm) wide; gripping jaws with fine cross-hatched serration (cross cut); nickel plated

92 64 43
Round tips, approx. 1/8" (3 mm) wide; gripping surfaces with fine transverse serration; chrome plated

92 64 44
Round tips, approx. 9/64" (3.5 mm) wide; gripping surfaces with fine transverse serration; chrome plated

92 70 46
Round tips, approx. 9/64" (3.5 mm) wide; gripping surfaces with fine transverse serration; black non-reflective lacquered

92 72 45
Round tips, approx. 9/64" (3.5 mm) wide; serrated gripping surfaces; non-reflective matte finish; stainless, anti-magnetic and acid-proof

92 44 42

92 64 43

92 64 44

92 70 46

92 72 45

Product Number	Packaging	↔ Inch mm		Finish	⚖ lbs
92 44 42		5 1/2 140		nickel plated	0.05
92 64 43		4 3/4 120		chrome plated	0.04
92 64 44		5 3/4 145		chrome plated	0.06
92 70 46		5 3/4 145		black lacquered	0.06
92 72 45		5 3/4 145		stainless, anti-magnetic, acid-proof	0.06

Precision Tweezers
round slim shape

92

> round tips, approx. 5/64" (2 mm) wide
> smooth gripping surfaces
> chrome nickel steel: stainless, anti-magnetic and acid-proof

92 52 23

Product Number	Packaging	↔ Inch mm		Finish	⚖ lbs
92 52 23		4 3/4 120		stainless, anti-magnetic, acid-proof	0.04

Plastic Tweezers 92

> trapezoid shaped tips, approx. 9/64" (3.5 mm) wide
> serrated gripping surfaces
> serrated handles
> tweezers body: solid plastic, temperature-resistant up to 266° F

92 69 84

Product Number	Packaging	↔ Inch mm		Finish	⚖ lbs
92 69 84		5 1/4 130		plastic	0.02

Precision Tweezers
rectangular blunt 92

> mounting tweezer
> rectangular tips, approx. 1/32" (0.9 mm) wide
> gripping surfaces with fine transverse serration
> chrome plated
> spring steel, high-strength

92 84 18

Product Number	Packaging	↔ Inch mm		Finish	⚖ lbs
92 84 18		5 125		chrome plated	0.04

Crossover Tweezers 92

> for holding small parts without finger pressure
> for efficient clamping
> chrome plated
> spring steel, high-strength

92 94 91
Trapezoid shaped, straight tips; gripping surfaces with fine transverse serration; serrated handles

92 95 89
Narrow, straight tips; gripping surfaces with fine transverse serration; handles with plastic attachment

92 95 90
Narrow, bent tips; gripping surfaces with fine transverse serration; handles with plastic attachment

92 94 91

92 95 89

92 95 90

Product Number	Packaging	↔ Inch mm		Finish	⚖ lbs
92 94 91		6 1/4 160		chrome plated	0.08
92 95 89		6 1/4 160		chrome plated	0.07
92 95 90		6 1/4 160	∠45°	chrome plated	0.07

Cutter
for ribbon cable

94 15

- for crush-free cutting of ribbon cable up to 2 13/64" (56 mm) width
- exchangeable cutting base with fence angle for rectangular cuts
- with opening spring and locking lever
- tool body: tool steel, rolled, oil-hardened
- blade: standard trapezoidal blade, replaceable

94 15 215

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm		Tool	Handles	Blade length Inch mm	⚖ lbs
94 15 215		8 1/2 215		chrome plated	plastic coated	2 13/64 56	0.76

94 19 215	10 spare blades for 94 15 215 / 94 35 215

Mitre Shears
for plastic and rubber sections

94 3

- for crush-free cutting of plastic, rubber and soft timber sections; also for ribbon cable up to 2 13/64" (56 mm) width
- exchangeable cutting base with fence angle for 45°-cuts and markings for 60°-, 75°-, and 90°-cuts
- with opening spring and locking lever
- tool body: special tool steel, rolled, oil-hardened
- blade: standard trapezoid shaped blade, replaceable

94 35 215

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm		Tool	Handles	Blade length Inch mm	⚖ lbs
94 35 215		8 1/2 215		chrome plated	plastic coated	2 13/64 56	0.86

94 19 215	10 spare blades for 94 15 215 / 94 35 215

Vinyl Shears
for cable ducts

95 02

> for cutting and shortening cable ducts and for plastic material up to 5/32" (4.0 mm) thickness
> special lever transmission
> very effective blade geometry
> tool body: high-grade chrome vanadium electric steel, oil-hardened
> blade: special tool steel;oil-hardened

95 02 21
PATENTED

95 02 21: Blade length 4 1/4" (110 mm) for cutting wide cable ducts

Product Number	Packaging	↔ Inch / mm		Tool	Handles	Cutting capacities Inch / mm	Blade length Inch / mm	⚖ lbs
95 02 21		11 / 275		burnished	multi-component grips	5/32 / 4.0	4 1/4 / 110	1.47

Anvil Shears
for cutting soft material such as rubber and leather

94

> includes opening spring and locking device
> cutting capacity for round material up to 1" (25 mm)
> cuts flat material up to 1.50" (40 mm) max. width
> tool body constructed of rolled and oil-hardened tool steel

94 55 200

Part Number	↔ inch	↔ mm	Pliers	Handles	Cutting Capacity	⚖ lbs
94 55 200	8	200	chrome plated	plastic coated	soft material - rubber, leather and hoses	0.64
95 59 200 01	Spare blade for 94 55 200					

Shears
for KEVLAR® fibers

95 03

- only for cutting fibers of KEVLAR® in optical fiber cables, not recommended for other materials
- precision ground blades with serration prevent the fibers from slipping and guarantees a clean cut
- riveted precision joint, for low-friction movement and smooth and even cutting of the thin KEVLAR® fibers
- hard chrome plated, ground surface
- shears body: chrome vanadium electric steel, oil-hardened
- user-friendly handles: plastic, impact-resistant

95 03 160 SB

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

Product Number	Packaging	↔ Inch mm	Shears	Handles	⚖ lbs
95 03 160 SB		6 1/4 160	chrome plated	plastic coated	0.15

Combination Shears

95 05

- for cutting cardboard, plastics, aluminum, brass and copper foils
- not suitable for steel wire or iron sheets
- precision ground, hardened blades
- with opening spring and locking device
- pinch guard prevents operators´ fingers being pinched
- adjustable bolted joint
- shears body: surgical steel, stainless, air-hardened
- handles: plastic, impact-resistant

95 05 185
Angled shape – for easy execution of long cuts;
ergonomically shaped plastic handles

95 05 140

95 05 185
∠40°

95 05 190

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm		Head	Handles	⚖ lbs
95 05 140		5 1/2 140		polished	plastic coated	0.15
95 05 185		7 1/4 185	∠40°	polished	plastic coated	0.25
95 05 190		7 1/2 190		polished	plastic coated	0.26

Electricians' Shears 95

Precision ground blades with fine serration for a clean, non-slip cut
Cutting edge with integrated cable cutter
With plastic belt case

- universal shears for electricians
- handles with multi-component grips, fiberglass-reinforced
- cutting edges made from stainless steel, hardness of cutting edges 56 HRC

95 05 10 SB
With crimp area for end sleeves (ferrules) up to 6.0 mm²

95 05 155 SBA

95 05 10 SB

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm	Head	Handles	Capacity mm²	⚖ lbs
95 05 155 SBA	X	6 1/8 155	polished	multi-component grips, fiberglass-reinforced	-	0.24
95 05 10 SB	X	6 1/4 160	polished	multi-component grips, fiberglass-reinforced	6.0	0.31

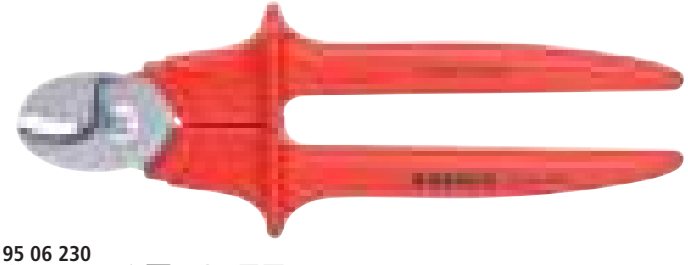
Cable Shears 95

- not suitable for steel wire and hard drawn copper conductors
- precision ground, hardened blades
- no crushing, slight deformation of the cable only
- pinch guard prevents operators´ fingers being pinched
- adjustable bolted joint
- shears body: surgical steel, stainless, vacuum-hardened
- handles: plastic, impact-resistant

95 05 165
Cuts cables up to 25/64" diameter (10 mm, 24 mm²); with opening spring and locking device; blades made of stainless steel; oil-hardened and tempered

95 06 230
For copper conductors single wire up to 5/8" (16 mm²), stranded up to 1/0 AWG (50 mm²), fine stranded up to 2/0 (70 mm²) and aluminum conductors multi wire up to 70 mm²; easy cutting with one-hand operation due to high transmission ratio; stainless – surgical grade – steel, oil-hardened and tempered

95 05 165



95 06 230 1000 V

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities Ø Inch Ø mm	Cutting capacities mm²	AWG	⚖ lbs
95 05 165		6 1/2 165		polished	plastic coated	25/64 10	24	6	0.25
95 06 230		9 1/4 230	1000 V	polished	plastic insulated, VDE-tested	5/8 16	50	solid - 1/0 stranded - 2/0	0.60

Cable Shears

95

- for cutting copper and aluminum cables, single and multi-stranded wire
- 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
- pinch guard prevents operators´ fingers being pinched
- adjustable bolted joint, self-locking
- high-grade special tool steel; forged, oil-hardened

Style 2
Internal opening spring, protected and captive

Style 4
Multifunctional tool for working on NYM cable from 3 x 1.5 mm² to 5 x 2.5 mm² (cutting, stripping insulation); universal stripping area for both solid conductor cross-sections; reliable alignment of the cable in the stripping area due to V-shaped blade geometry

95 12 165 T BKA*
Pliers with integrated tether attachment point for tool drop protection system

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

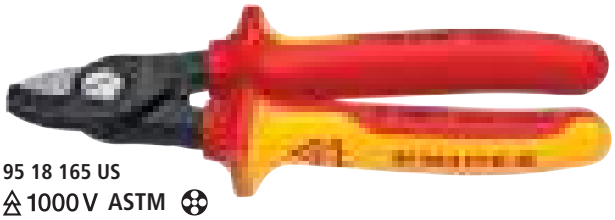
Cut performed with a Cable Shear: easy, clean cut without any deformation of the cable

The locking device keeps shears with spring inside the joint closed

95 11 165

95 12 165

95 12 165 T BKA



95 18 165 US
1000 V ASTM

95 21 165

95 41 165

Product Number	Packaging	↔ Inch mm		Tool	Handles	Style	Cutting capacities Ø Inch Ø mm	Cutting capacities mm²	AWG	lbs
95 11 165	X	6 1/2 165		burnished	plastic coated	1	19/32 15	50	1/0	0.49
95 12 165	X	6 1/2 165		burnished	multi-component grips	1	19/32 15	50	1/0	0.55
95 12 165 T BKA	X	6 1/2 165		burnished	multi-component grips, integrated tether attachment point	1	19/32 15	50	1/0	0.56
95 18 165 US	X	6 1/2 165	1000 V ASTM	burnished	insulated, multi-component grips, ASTM-tested	1	19/32 15	50	1/0	0.58
95 21 165	X	6 1/2 165		burnished	plastic coated	2	19/32 15	50	1/0	0.50
95 22 165		6 1/2 165		burnished	multi-component grips	2	19/32 15	50	1/0	0.56
95 41 165		6 1/2 165		burnished	plastic coated	4	15/32 12	35	1/0	0.49

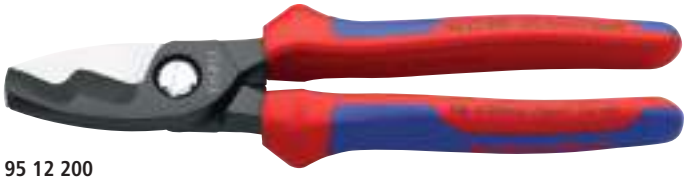
*Learn more about our tethered tool system on pages 207-211

Cable Shears
with twin cutting edge

95
1

- for cutting copper and aluminum 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 25/32" (20 mm) dia. can be cut in one-hand operation
- less effort required due to favorable lever ratio and optimized cutting-edge geometry
- pinch guard prevents operators´ fingers being pinched
- adjustable bolted joint, self-locking
- high-grade special tool steel; forged, oil-hardened

95 11 200
PATENTED



95 12 200
PATENTED

95 18 200 SBA
1000 V ASTM PATENTED

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 conductors are cut in the rear area.

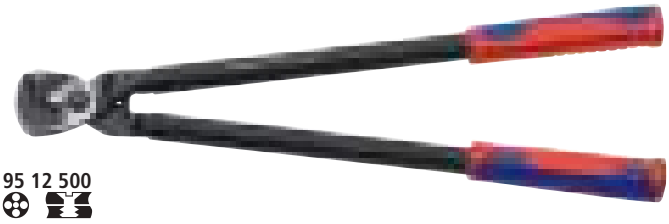
The twin cutting edge allows a comfortable handle position in all cutting situations inside the specified cutting capacity.

Product Number	Packaging	↔ Inch mm		Tool	Handles	Cutting capacities Ø Inch Ø mm	mm²	AWG	lbs
95 11 200	X	8 200		burnished	plastic coated	25/32 20	70	2/0	0.65
95 12 200	X	8 200		burnished	multi-component grips	25/32 20	70	2/0	0.74
95 18 200 SBA	X	8 200	1000 V ASTM	burnished	insulated, multi-component grips, ASTM-tested	25/32 20	70	2/0	0.75

Cable Shears 95

Short design, length only 20" (500 mm)
Lightweight, high leverage

- for cutting copper and aluminum cables, single and multi-stranded wire
- 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 favorable lever ratio and special blade geometry
- pinch guard prevents operators´ fingers being pinched
- adjustable bolted joint
- cutter head: vanadium electric steel, forged, oil-hardened
- handle shank: aluminum tube, high-strength



95 12 500

95 17 500
1000 V

Large cutting capacity: max. 1 1/16" (27 mm) dia. / 150 mm²

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities Ø Inch Ø mm	mm²	AWG	lbs
95 12 500		20 500		polished	multi-component grips	1 1/16 27	150	5/0	2.49
95 17 500		20 500	1000 V	polished	plastic dipped insulated, VDE-tested	1 1/16 27	150	5/0	3.26

Cable Shears 95

- for cutting copper and aluminum cables, single and multi-stranded wire
- not suitable for steel wire and wire ropes
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- favorable lever ratio due to toggle lever
- pinch guard prevents operators´ fingers being pinched
- adjustable bolted joint
- bolted cutter head, replaceable
- blade head: high-grade chrome vanadium electric steel, forged, oil-hardened
- handle: steel tube

95 27 600
1000 V

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities Ø Inch Ø mm	mm²	AWG	lbs
95 27 600		23 1/2 600	1000 V	polished	plastic dipped insulated, VDE-tested	1 1/16 27	150	5/0	5.08

95 29 600	Spare cutter head for 95 27 600

Cable Cutters
with ratchet action

95
3

- for cutting copper and aluminum cables, single and multi-stranded wire
- 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
- minimal handforce required due to very high transmission ratio
- two-stage ratchet drive for easy cutting
- simple handling as a result of lightweight and compact design – can be used even in confined areas
- pinch guard prevents operators´ fingers being pinched
- high-grade special tool steel; forged, oil-hardened

95 31 250 SBA

95 31 280: Large cutting capacity: max. 2" (52 mm) dia. / 380 mm²

Ratchet principle and two-stage ratchet drive for easier cutting

95 31 280 SBA

95 31 250/280: Fixed handle with support area as an aid to position the pliers when cutting

95 36 250 SBA

1000 V

Product Number	Packaging	↔ Inch mm		Tool	Handles	Cutting capacities Ø Inch Ø mm	mm²	MCM	lbs
95 31 250 SBA	X	10 250		black lacquered	multi-component grips	1 1/4 32	240	500	1.49
95 31 280 SBA	X	11 280		black lacquered	multi-component grips	2 3/64 52	380	750	1.70
95 36 250 SBA	X	10 250	1000 V	black lacquered	insulated, multi-component grips, VDE-tested	1 1/4 32	240	500	1.24
95 36 280 SBA	X	11 280	1000 V	black lacquered	insulated, multi-component grips, VDE-tested	2 3/64 52	380	750	1.64

95 39 250	Movable spare blade for 95 31 250 / 95 36 250
95 39 280	Movable spare blade for 95 31 280 / 95 36 280

Cable Shears
with ratchet action and telescopic handles

95
32

Cable shears with adjustable telescopic handles allow angular positioning

- for cable diameters up to 1 1/2" (38 mm), handles can be positioned at an angle to set the optimum handle width, great for work in confined areas
- comfortable work due to ratchet action and lightweight
- heavy-duty telescopic handles made of oval aluminum tubing; extendable up to 30" (770 mm) for maximum leverage on large cable diameters; retractable down to 22" (570 mm) for minimum space requirements during transport
- replaceable cutting head
- extensive cutting range up to 1 1/2" (38 mm) dia. or 550 MCM (280 mm²) in copper and aluminum cables
- easier, neater cut due to optimized cutting edge geometry
- adjustable bolted joint
- cutting head: special quality, high-grade tool steel, oil-hardened
- handles: high-strength oval aluminum tubing

95 32 038

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

Setting of a favorable handle width

Thorough cut of the cable by repeat cutting and opening actions

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

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities Ø Inch Ø mm	mm²	MCM	lbs
95 32 038		22 7/16 570		burnished	multi-component grips	1 1/2 38	280	550	4.49

Cable Cutters
with ratchet action and telescopic handles

95 32

- for copper and aluminum cables, single and multi-stranded wire – also with hard rubber, plastic sheet metal sheath
- not suitable for steel wire and wire ropes
- minimal handforce required for cutting due to optimum transmission ratio
- high cutting capacity due to two-handed operation and ratchet action
- the blade can be opened in any cutting position
- adjust the handle length to adapt to each individual job and move it to the shorter length for easy transport
- blade: special-quality high-grade tool steel, oil-hardened
- handles: high-strength oval aluminum tubing

95 32 060
Tool length: 23 5/8" - 31 1/2" (600 - 800 mm)

95 32 100
Tool length: 25 1/2" - 33 7/8" (650 - 850 mm)

95 32 060

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities Ø Inch Ø mm	mm²	MCM	lbs
95 32 060		23 5/8 - 31 1/2 600 - 800		burnished	multi-component grips	2 3/64 60	740	1400	8.47
95 32 100		25 1/2 - 33 7/8 650 - 850 mm				3 15/16 100	960	1900	10.98

95 39 720	Movable spare blade for 95 32 060
95 39 870	Movable spare blade for 95 32 100

Cable Cutters (ratchet action)

for steel wire armored cable (SWA-Cable)

95

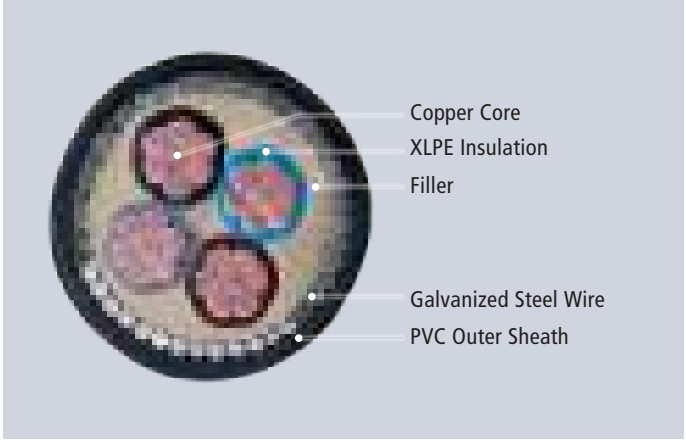
Cuts through steel wire armored cable with a diameter of up to 45 mm / 380 mm² (e.g. 4 x 95 mm²) using one or two-handed operation

- simple handling due to lightweight (1.82 lbs) and compact design (315 mm length) – can also be used in confined areas
- precision ground blades and induction hardened cutting edges cut smoothly and neatly without crushing
- innovative high leverage three-stage ratchet-drive
- flange on the handle can be used as a support surface when cutting larger diameters
- high-grade special tool steel, forged, oil-hardened
- not suitable for cutting ACSR cable and wire rope!

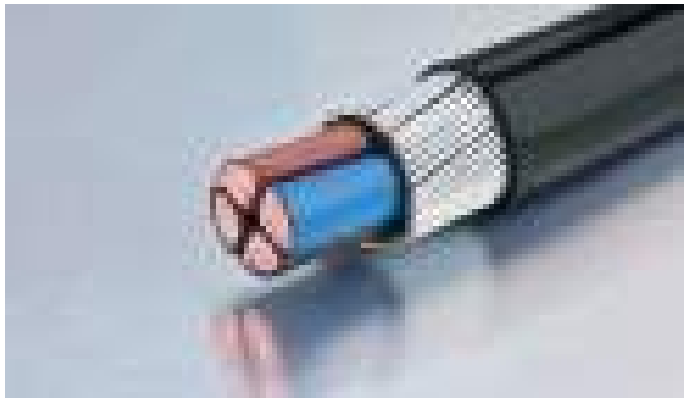
Precision milled and induction hardened cutting edge

95 36 315 A

1000 V



Cross-section of a steel wire armored cable

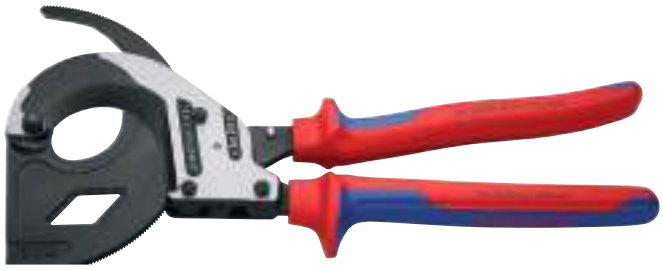


Product Number	↔ Inch mm		Tool	Handles	Cutting capacity Ø mm	Cutting capacity mm²	MCM	lbs
95 32 315 A	12 13/32 315		black lacquered	multi-component grips	45	380	750	1.80
95 36 315 A	12 13/32 315	1000 V	black lacquered	insulated multi-component grips, VDE-tested	45	380	750	1.80

95 39 315 A 01	Pivot cutter repair kit
95 39 315 A 02	Fixed cutter repair kit

Sturdy, easy to use and stable
Innovative ratchet drive

> Manual ratchet-action cable cutter for one-hand and two-handed operation for cutting copper and aluminum cables with diameters of up to 2 23/64" (60 mm)
> easy handling due to light weights (1.82 lbs) and compact construction (12 1/2" / 320 mm length) – suitable for use in confined areas
> cuts through copper and aluminum cables with diameters of up to 2 23/64" (60 mm) in one-hand and two-handed operation
> hardened cutting edges, precisely ground, cut smoothly and neatly without crushing
> for cutting copper and aluminum single conductors as well as multi-stranded cables (not suitable for steel wire and wire ropes)
> innovative 3-stage ratchet-drive with high leverage for easy cutting in one-hand and two-handed operation
> flange on the handle can be used as a support surface when cutting larger diameters
> high-grade special tool steel; forged, oil-hardened



95 32 320

The innovative three gear drive permits three operating modes

> Fast working with full lift of handles and one-hand operation when cutting through insulation material

> Powerfully sliding the sickle knife forward when cutting through the stranded conductor with two hands through use of the central lifting area (handle opening of between 1/3 and 2/3 of total range)

> Powerfully pushing the sickle knife forward with one hand to cut through the stranded conductor through use of the first third of the handle lift with one or two hands

First manual ratchet-action cable cutter for one-hand and two-handed operation for cutting copper and aluminum cables with diameters of up to 2 23/64" (60 mm)!

Product Number	Packaging	↔ Inch / mm		Tool	Head	Handles	Cutting capacities Ø Inch / Ø mm	Cutting capacities mm²	MCM	lbs
95 32 320		12 1/2 / 320		black atramentized	polished	multi-component grips	2 3/64 / 60	600	1200	1.82
95 36 320		12 1/2 / 320	1000 V	black atramentized	polished	insulated, multi-component grips, VDE-tested	2 3/64 / 60	600	1200	1.83

95 39 320 01	Pivot cutter repair kit for 95 32 320 and 95 36 320
95 39 320 02	Fixed cutter repair kit for 95 32 320 and 95 36 320

ACSR Cable Cutter
with ratchet action for cables with a steel core

95 3

Handy, compact and sturdy
Extremely robust design

> cuts ACSR 795 kcmil and AAC up to 1 ¼" (32 mm)
> cutters with precision cut and induction hardened cutting edges
> two-stage ratchet drive for easy cutting
> less physical effort due to very high transmission ratio
> fixed handle with support area for laying down the pliers when cutting
> locking mechanism for transporting with safely closed handles
> high-grade special tool steel; forged, multi stage oil-hardened

Enormous power with a weight of just 2.87 lbs (1300 g)

95 32 340 SR US

Product Number	Packaging	↔ Inch mm		Tool	Handles	Cutting capacities: AAC (All Aluminum Conductor) Ø Inch Ø mm	Cutting capacities: ACSR (Aluminum Conductor Steel Reinforced) kcmil	lbs
95 32 340 SR US	X	13 25/64 340		burnished	multi-component grips	1 1/4 32	795	2.87

Bowden Cable Cutter

95 6

> for Bowden cables and soft wire rope up to 1/8" (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
> minimal handforce required due to very high transmission ratio
> with opening spring and locking lever
> induction hardened cutting edges
> high-grade special tool steel; forged, multi stage oil-hardened

95 61 150 US

Product Number	Packaging	↔ Inch mm		Shears	Head	Handles	Cutting capacities Ø Inch Ø mm	lbs
95 61 150 US	X	6 150		black atramentized	polished	plastic coated	1/8 3	0.48

Wire Rope Shears
forged

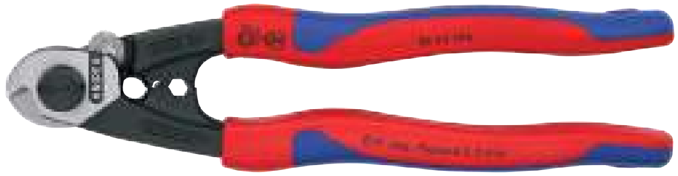
Double function: clean cutting, precise crimping

> with two crimping dies for end caps on Bowden cable sheaths and ferrules for wire rope
> comfortable work due to slim design and internal opening spring
> bolted joint for precise blade guidance, readjustable
> high leverage for reduced effort
> cutting edge hardness (approx. 64 HRC)
> chrome vanadium heavy-duty steel; forged, manifold oil-hardened


Crimping of the ferrules onto the traction cable

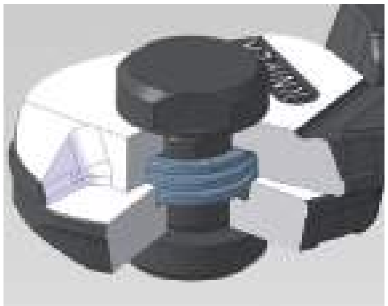

Crimping of the end caps on the Bowden cable sheath


95 61 190


95 62 190

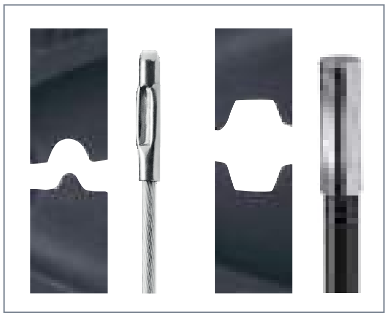
95 62 190 T BKA*
Pliers with integrated tether attachment point for tool drop protection system

Precise guidance through a bolted joint


Internal opening spring

> Cuts all wire ropes without splaying, including those that are extremely strong
> Not for electrical end ferrules

Transport lock and opening limiter


Crimp profiles

Product Number	Packaging	Inch / mm		Head	Handles	Cutting capacities Ø Inch / Ø mm	Ø Inch / Ø mm	Ø Inch / Ø mm	Ø Inch / Ø mm	lbs
95 61 190	X	7 1/2 / 190		polished	plastic coated	9/32 / 7.0	13/64 / 5.0	5/32 / 4.0	3/32 / 2.5	0.69
95 62 190	X	7 1/2 / 190		burnished	multi-component grips	9/32 / 7.0	13/64 / 5.0	5/32 / 4.0	3/32 / 2.5	0.69
95 62 190 T BKA	X	7 1/2 / 190		burnished	multi-component grips, integrated tether attachment point	9/32 / 7.0	13/64 / 5.0	5/32 / 4.0	3/32 / 2.5	0.83

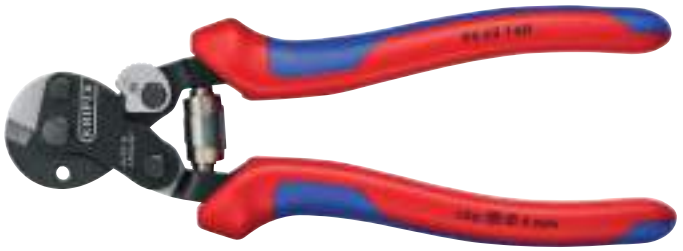
*Learn more about our tethered tool system on pages 207-211

Wire Rope Cutter

95

Compact size, lightweight, high performance level
High transmission joint design makes cutting 20 % easier
Box joint design for greater stability

- for cutting high-strength wire ropes up to up to 5/32" (4 mm) and cable 3/16" (6 mm)
- at just 6 1/4" (160 mm) length this tool is considerably more powerful than many larger wire rope cutters
- included thumb lock and opening spring
- ball bearing steel for a long service life
- induction hardened cutting edges
- cuts cleanly and evenly without wire ends splaying or fanning out



95 62 160

Product Number	Packaging	↔ Inch mm		Head	Handles	Ø Inch Ø mm	Ø Inch Ø mm	lbs
95 62 160	X	6 1/4 160		polished	multi-component grips	3/16 6.0	5/32 4.0	0.38

Cable Cutters for Wire Rope and ACSR

95

- for ACSR, wire ropes, steel rods, copper and aluminum cables
- suitable for cutting overhead cables with strain relief wire
- angular cutting blades prevent fanning out
- optimum transmission ratio for high cutting performance
- bolted cutter head, replaceable
- lightweight
- cutter head: high-grade special tool steel, multi stage oil-hardened
- handles: aluminum, high-strength

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

95 71 600

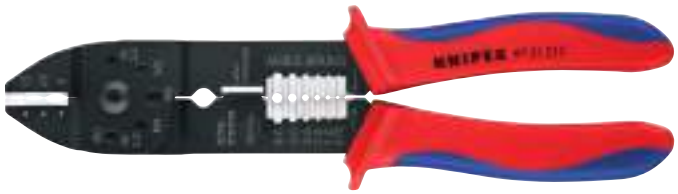
95 77 600
1000 V

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

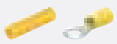
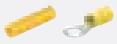
Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities mm²	Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	AWG	lbs
95 71 445		17 1/2 445		polished	plastic grips	95	25/64 10	9/32 7	-	3/0	2.39
95 71 600		23 5/8 600		polished	plastic grips	150	35/64 14	23/64 9	-	5/0	3.84
95 77 600		23 5/8 600	1000 V	polished	plastic dipped insulated, VDE-tested	150	35/64 14	23/64 9	-	5/0	5.02
95 81 600		23 5/8 600		polished	plastic grips	150	5/8 16	25/64 10	11/64 4.5	5/0	4.97

95 79 445	Spare cutter head for 95 71 445
95 79 600	Spare cutter head for 95 71 600 / 95 77 600
95 89 600	Spare cutter head for 95 81 600

- 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 7/64", 1/8", 9/64", 5/32" and 13/64" (M2.6, M3, M3.5, M4 and M5)
- bolted joint for higher stability and smooth movement
- special steel; high-strength



97 21 215

Product Number	Packaging	↔ Inch mm			Pliers	Handles	Applications	Capacity mm²	Number of crimping positions	⚖ lbs
97 21 215		9 1/4 235			black lacquered	multi-component grips	Insulated terminals + cable connectors	0.75 - 6.0	3	0.63
97 21 215 B		9 230			black lacquered	multi-component grips	Non-insulated open plug-type connectors (plug width 6.3 mm)	0.5 - 2.5	3	0.63
97 21 215 C		9 230			black lacquered	multi-component grips	Non-insulated terminals + cable connectors	0.5 - 6.0	3	0.63
97 21 215 SB	X	9 1/4 235			black lacquered	multi-component grips	Insulated terminals + cable connectors	0.75 - 6.0	3	0.63
97 22 240		9 1/2 240			black lacquered	multi-component grips	Insulated terminals + cable connectors	0.75 - 6.0	3	0.67
							Non-insulated open plug-type connectors (plug width 6.3 mm)	0.5 - 2.5		


1.5
2.5
6
M2.6
M3
ISO
M
3.5
M4
M5
DRAHT
SCHNEIDER
ABISOLIERUNG
ZÜND-
STECKER
KNIPEX
6.0
4.0
2.5
1.5
1.0
0.75

KNIPEX MultiCrimp®
Crimping Pliers with quick changer magazine

97 33

- just one tool for the most common crimping applications
- crimping dies change quickly and easily without any additional tool
- secure and protected storage of the interchangeable dies in a round magazine
- comfortable, powerful crimping pliers
- 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, fiberglass-reinforced

1. Changing position: service lever opens out for parallel jaw positioning

2. Changing the crimp die: unlock the magazine position, take the crimp dies out of the pliers

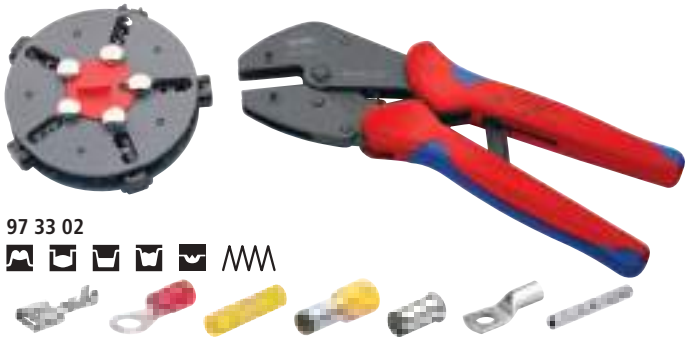
3. Fold in the service lever and press the pliers – ready for use again

97 33 01

97 33 01
Crimping Pliers with round magazine and three interchangeable crimping dies for:

- non-insulated open plug-type connectors (4.8 + 6.3 mm width) from 1/64-15/64" (0.5 - 6.0 mm²)
- insulated terminals, plug connectors and butt connectors from 1/64-15/64" (0.5 - 6.0 mm²)
- insulated and non-insulated ferrules (end sleeves) from 1/64-15/64" (0.25 - 6 mm²)

Now also for insulated and non-insulated end sleeves (ferrules) 10, 16, 25 mm²
Universal indent crimping die for non-insulated connectors



97 33 02

97 33 02
Crimping Pliers with round magazine and five interchangeable dies for;

- non-insulated open plug-type connectors (plug width 4.8 + 6.3 mm) from 1/64-15/64" (0.5 - 6.0 mm²)
- insulated terminals, plug connectors and butt connectors from 1/64-15/64" (0.5 - 6.0 mm²)
- - insulated and non-insulated ferrules (end sleeves) from 1/64-15/64" (0.25 - 6 mm²)
- insulated and non-insulated ferrules (end sleeves) with 10 / 16 / 25 mm² and for non-insulated crimp terminals
- tube and compression cable lugs in accordance with DIN 46234 and DIN 46235
- non-insulated crimp, butt and press connectors in accordance with DIN 46341 and DIN 46267

Compact and lightweight crimping pliers for connectors.
One tool does the job of five.

Magazine for crimp dies can be carried on a belt

Clearly visible marking on the crimping dies with pictograms

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm				Applications	Capacity mm²	⚖ lbs
97 33 01		10 250				Non-insulated open plug-type connectors (plug width 4.8 + 6.3 mm)	0.5 - 6.0	1.33
		-				Insulated terminals, plug connectors and butt connectors	0.5 - 6.0	-
		-				Insulated and non-insulated end sleeves (ferrules)	0.25 - 0.75 / 1 - 1.5 / 2.5 / 4 / 6	-
97 33 02		10 250				Non-insulated open plug-type connectors (plug width 4.8 + 6.3 mm)	0.5 - 6.0	1.92
		-				Insulated terminals. plug connectors and butt connectors	0.5 - 6.0	-
		-				Insulated and non-insulated end sleeves (ferrules)	0.25 - 0.75 / 1 - 1.5 / 2.5 / 4 / 6	-
		-				Insulated and non-insulated end sleeves (ferrules)	10 / 16 / 25	-
		-				Non-insulated crimp terminals, tube and compression cable lugs in accordance with DIN 46234 and DIN 46235 and non-insulated crimp, butt and press connectors in accordance with DIN 46341 and DIN 46267	0.5 - 10.0	-

Crimp System Pliers
for exchangeable crimping dies

97 43

- just one tool for almost 1,000 crimping applications
- 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
- optimum transmission of force due to lever action for fatigue-reduced operation
- comfortable handle design
- different locators for precise positioning of the connectors
- additional crimp dies available upon request
- chrome vanadium electric steel in special quality; oil-hardened

97 43 200 with crimping dies 97 49 06 for insulated terminals, plug connectors and butt connectors

97 43 200 with crimping dies 97 49 09 for ferrules (end sleeves)

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

97 43 200

97 43 200 A

97 43 200
In a plastic case; foam insert with recesses for crimping dies and locators; with service tool (hexagonal 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

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm			Pliers	Handles	Applications	Capacity mm²	Number of crimping positions	lbs
97 43 05		8 200			burnished	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	3	1.33
97 43 06		8 200			burnished	multi-component grips	Crimp System Pliers for insulated terminals and plug connectors	0.5 - 6.0	3	1.35
97 43 200		8 200	-		burnished	multi-component grips	See crimp die profile table	-	-	1.25
97 43 200 A		8 200	-		burnished	multi-component grips	See crimp die profile table	-	-	1.26

Product Number	Packaging			Applications	Cable type	Capacity mm²	Capacity SW mm Inch mm	Sleeves Ø Inch Ø mm	Number of crimping positions	⚖ lbs
97 49 04				Non-insulated open plug-type connectors (plug width 2.8 + 4.8 mm)	-	0.1 - 2.5	-	-	4	0.09
97 49 05				Non-insulated open plug-type connectors (plug width 4.8 + 6.3 mm)	-	0.5 - 6.0	-	-	3	0.10
97 49 06				Insulated terminals, plug connectors + butt connectors	-	0.5 - 6.0	-	-	3	0.10
97 49 08				Insulated and non-insulated ferrules (end sleeves)	-	0.25 - 6.0	-	-	5	0.11
97 49 09				Insulated and non-insulated ferrules (end sleeves)	-	10 / 16 / 25	-	-	3	0.11
97 49 15				Lug connectors and non-insulated open plug-type connectors (plug width 6.3 mm)	-	1.25-2.5 + 3.0-6.0	-	-	2 + 1	0.12
97 49 16				Insulated terminals + cable connectors	-	10.0 - 16.0	-	-	2	0.10
97 49 18				Twin ferrules (end sleeves) for two flexible conductors	-	2x6 / 2x10 / 2x16	-	-	3	0.11
97 49 19				Insulated and non-insulated ferrules (end sleeves)	-	35 - 50	-	-	2	0.10
97 49 20				F-connectors for TV and satellite connections	-	-	9/32; 21/64; 5/16 7.0; 8.4; 8.1	19/64; 3/8; 3/8 7.7; 9.5; 9.5	3	0.11
97 49 23				Non-insulated terminals + cable connections	-	16 + 25	-	-	2	0.10
97 49 24				D Sub; HD 20; HDE plug	-	0.03 - 0.56	-	-	3	0.09
97 49 30				Non-insulated crimp connectors in accordance with DIN 46267	-	1.5 - 4.0	-	-	3	0.08
97 49 35				Spark plug connectors and distributors	-	1	-	-	5	0.12
97 49 40				Coax connectors RG 58, 59, 62, 71, 223	RG 58, 59, 62, 71, 223	--	7/32; 1/4; 1/16 5.4; 6.48; 1.72	1/4; 19/64; 5/64 6.4; 7.6; 2.1	3	0.13
97 49 44				Rolled contacts	-	0.14 - 1.5	-	-	3	0.10

Product Number	Packaging			Applications	Cable type	Capacity mm²	Capacity SW mm Inch mm	Sleeves Ø Inch Ø mm	Number of crimping positions	lbs
97 49 50				Coax connectors/ car phone RG 58, 74, 188, 316	RG 58, 174, 188, 316	-	1/8; 11/64; 7/32; 1/16; 3/64; 1/32 3.25; 4.52; 5.4; 1.72; 1.07; 0.72	5/32; 7/32; 1/4; 5/64; 3/64; 1/32 3.9; 5.4; 6.4; 2.1; 1.3; 0.95	6	0.11
97 49 54				Modular plugs	-	0.5 - 2.5	-	-	4	0.11
97 49 60				Turned contacts (HTS + Harting)	-	0.14 - 4.0	-	-	4	0.12
97 49 62				Solar connectors (Huber + Suhner)	-	2.5 + 4.0	-	-	3	0.09
97 49 64				ABS connectors in motor vehicles	-	1.0 - 6.0	-	-	2	0.11
97 49 69 1				Solar cable connectors gesis® solar PST 40 (Wieland)	-	1.5 - 2.5	-	-	2	0.10
97 49 69 2				Solar cable connectors gesis® solar PST 40 (Wieland)	-	4.0 - 10.0	-	-	3	0.10
97 49 70				Western plugs	-	4,6,8-poles RJ 10 / 11 / 12 / 45	-	-	3	0.11
97 49 74				Unshielded plugs	-	4,6,8-poles RJ 10 / 11 / 12 / 45	-	-	3	0.10
97 49 76				Shielded Stewart plugs	-	-	-	-	2	0.11
97 49 81				Fiber optic connectors, e.g. Harting	-	-	1/8; 3/16; 1/4 3.0; 4.95; 6.5	9/64; 15/64; 19/64 3.5; 6.0; 7.5	3	0.12
97 49 82				Fiber optic connectors, e.g. Telegärtner	-	-	1/8; 9/64; 11/64 3.25; 3.65; 4.52	9/64; 5/32; 7/32 3.6; 4.0; 5.4	3	0.11
97 49 83				Fiber optic connectors, e.g. FSMA-;ST-; SC- + STSC-/K-connectors	-	-	9/64; 11/64; 13/64 3.65; 4.2; 5.0	11/64; 7/32; 15/64 4.3; 5.4; 6.0	3	0.11
97 49 84				Fiber optic connectors, e.g. Huber/Suhner	-	-	5/32; 11/64; 3/16 3.8; 4.3; 4.95	11/16; 13/64; 15/64 4.5; 5.2; 6.0	3	0.11
97 49 87				Fiber optic connectors, e.g. FSMA-;ST- and MIC-connectors	-	-	11/32 8.7	3/8 9.5	1	0.10

97 49 90	Locator for 97 49 60 (HTS+Harting)
97 49 93	Locator for 97 49 24 (D-Sub-plugs)
97 49 94	Locator for 97 49 04
97 49 95	Locator for 97 49 05

Special profiles available upon request

Locators
for crimping pliers and profiles

97

97 59 65 2
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 turned contacts in the four-mandrel crimping pliers' capacity range.

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

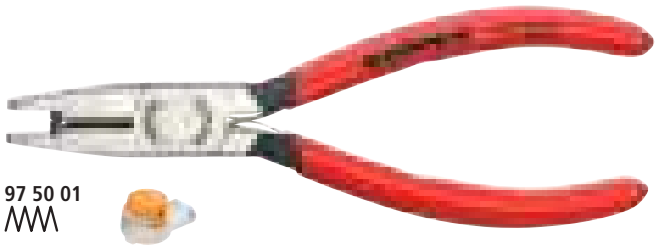
97 59 65 2

Product Number	Packaging	Applications	lbs
97 49 65 1		Locator for 97 49 65 (solar connectors MC 3)	0.19
97 49 66 1		Locator for 97 49 66 (solar connectors MC 4)	0.16
97 49 68 1		Locator for 97 49 68 (solar connectors Solarlok)	0.16
97 59 65 2		Universal Locator for 97 52 65 / 97 52 65 DG	0.35

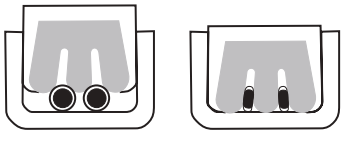
Crimping Pliers
with side cutter for Scotchlok™ connectors

97
50

- for crimping plastic-insulated telecommunication or signal cables using the U-contact principle in single Scotchlok connectors
- no stripping necessary, U-shaped elements make the connection
- induction hardened cutting edges
- includes opening spring for easy repetitive work
- vanadium electric steel; forged, oil-hardened



97 50 01



Before After

Scotchlok™ is a registered trademark for 3M

Product Number	Packaging	↔ Inch mm	Type of Connector		Head	Handles	Applications	Capacity Ø Inch Ø mm	lbs
97 50 01		6 1/8 155			polished	plastic coated	Scotchlok single connector	1/64 - 3/64 0.4 - 1.1	0.31

Crimping Pliers for Western plugs

- professional tool for cutting and stripping unshielded ribbon telephone cables
- for crimping 6- and 8-pole Western plugs type RJ 11/12 (3/8" / 9.65 mm width) and type RJ 45 (15/32" / 11.68 mm width)
- exact crimping process due to parallel crimping
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- length cutter and dismantling knife for ribbon cables 1/4" and 1/2" (6 and 12 mm) length
- additional stripping device for round cables
- chrome vanadium electric steel in special quality; oil-hardened
- 97 51 12 is 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)

97 51 10

97 51 12

Product Number	Packaging	↔ Inch mm	Type of Connector		Pliers	Handles	Capacity	Number of crimping positions	⚖ lbs
97 51 10		7 1/2 190			burnished	multi-component grips	RJ 11/12 (6-poles) 3/8" (9.65 mm) RJ 45 (8-poles) 15/32" (11.68 mm)	2	0.67
97 51 12		8 200			burnished	multi-component grips	RJ 10 (4-poles) 7.65 mm RJ 11/12 (6-poles) 3/8" (9.65 mm) RJ 45 (8-poles) 15/32" (11.68 mm)	3	1.18

97 59 06	4 spare blades for 97 51 10
97 59 12	Spare set of blades for 97 51 12


KNIPEX
97 52 36
MADE IN GERMANY

Crimping Pliers
for two-handed operation

97 52

- for solder-free electrical connections
- the 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
- two-handed operation for easy crimping of large conductor diameters
- easy handling as a result of well-balanced center of gravity, angled head and ergonomically shaped handles
- chrome vanadium electric steel in special quality; oil-hardened

First step: place the connector into the correct crimping position. Squeeze handles slightly to secure connector inside die

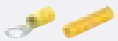
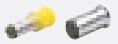
Second step: insert wire into connector and squeeze handles to complete crimp

Third step: handles are long enough for two-handed operation. Handles will release automatically when the crimp is complete

97 52 04

97 52 06

97 52 10

Product Number	↔ Inch mm			Pliers	Handles	Applications	Capacity mm²	AWG	Number of crimping positions	lbs
97 52 04	10 250			burnished	non-slip plastic grips	Non-insulated open plug-type connectors (plug width 2.8 + 4.8 mm)	0.1 - 2.5	26 - 14	4	1.24
97 52 05	10 250			burnished	non-slip plastic grips	Non-insulated open plug-type connectors (plug width 4.8 + 6.3 mm)	0.5 - 6.0	22 - 8	3	1.26
97 52 06	10 250			burnished	non-slip plastic grips	Insulated terminals. plug connectors + butt connectors	0.5 - 6.0	22 - 8	3	1.25
97 52 08	10 250			burnished	non-slip plastic grips	Insulated and non-insulated ferrules (end sleeves)	0.25 - 6.0	24 - 8	5	1.25
97 52 09	10 250			burnished	non-slip plastic grips	Insulated and non-insulated ferrules (end sleeves)	10 / 16 / 25	8 / 6 / 4	3	1.26
97 52 10	10 250			burnished	non-slip plastic grips	COAX-. BNC- and TNC-connectors	-	-	3	1.27
97 52 13	10 250			burnished	non-slip plastic grips	Non-insulated crimp terminals, tube and compression cable lugs in accordance with DIN 46234 and DIN 46235 and non-insulated crimp, butt and press connectors in accordance with DIN 46341 and DIN 46267	0.5 - 10.0	22 - 8	4	1.23
97 52 19	10 250			burnished	non-slip plastic grips	Insulated and non-insulated ferrules (end sleeves)	35 - 50	2 and 0 (1/0)	2	1.25
97 52 23	10 250			burnished	non-slip plastic grips	Non-insulated terminals + cable connectors	16 + 25	6 and 4	2	1.25

Crimping Pliers
with short design

97 52

97 59 14
> Locator for non-insulated open plug-type connectors

- repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- crimping pressure has been set precisely (calibrated) in the factory
- optimum transmission of force due to toggle lever for fatigue-reduced operation
- 20° angled head, lightweight and compact design
- chrome vanadium electric steel in special quality; oil-hardened

97 52 14

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm			Pliers	Handles	Applications	Capacity mm²	AWG	Number of crimping positions	lbs
97 52 14		7 1/2 195			burnished	multi-component grips	Non-insulated open plug- type con-nectors (plug width 2.8 + 4.8 mm)	0.10 - 1.5	26 - 16	4	0.85
97 52 20		7 1/2 195			burnished	multi-component grips	COAX-, BNC- and TNC-connectors RG 58/59/62/71/223	-	-	3	0.84

97 59 14	Locator for 97 52 14 short design

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
- optimum transmission of force due to toggle lever for fatigue-reduced operation
- good handling due to favorable handle position, low weight, short design and ergonomically shaped handles
- chrome vanadium electric steel in special quality; oil-hardened

97 52 37

97 52 30

97 52 33

97 52 34

97 52 36

97 52 38

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	↔ Inch mm			Pliers	Handles	Applications	Capacity mm²	AWG	Number of crimping positions	lbs
97 52 30	8 3/4 220			burnished	multi-component grips	Non-insulated crimp connectors in accordance with DIN 46267	1.5 - 4.0	16 - 12	3	1.06
97 52 33	8 3/4 220			burnished	multi-component grips	Non-insulated crimp terminals, tube and compression cable lugs in accordance with DIN 46234 and DIN 46235 and non-insulated crimp, butt and press connectors in accordance with DIN 46341 and DIN 46267	0.5 - 10.0	22 - 8	4	1.06
97 52 34	8 3/4 220			burnished	multi-component grips	Non-insulated open plug-type connectors (plug width 2.8 + 4.8 mm)	0.1 - 2.5	26 - 14	4	1.07
97 52 35	8 3/4 220			burnished	multi-component grips	Non-insulated open plug-type connectors (plug width 4.8 + 6.3 mm)	0.5 - 6.0	22 - 10	3	1.08
97 52 36	8 3/4 220			burnished	multi-component grips	Insulated terminals, plug connectors + butt connectors	0.5 - 6.0	22 - 10	3	1.08
97 52 37	8 3/4 220			burnished	multi-component grips	Heat shrinkable sleeve connectors	0.5 - 6.0	22 - 10	3	1.05
97 52 38	8 3/4 220			burnished	multi-component grips	Insulated and non-insulated ferrules (end sleeves)	0.25 - 6.0	24 - 10	5	1.09
97 52 50	8 3/4 220			burnished	multi-component grips	COAX-, BNC- and TNC-connectors for RG 58/174/188/316	-	-	6	1.10

Four-Mandrel Crimping Pliers
for turned contacts

97
52

- 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 due to ergonomic shape
- chrome vanadium electric steel in special quality; oil-hardened

97 52 63 DG
Crimping capacity can be adjusted in increments of .0004" (0.01 mm); with digital display of the preset crimping capacities; adjustment in mm, inches or comparable selection positions according to MIL; packaged in a plastic case with foam insert and locator for holding 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

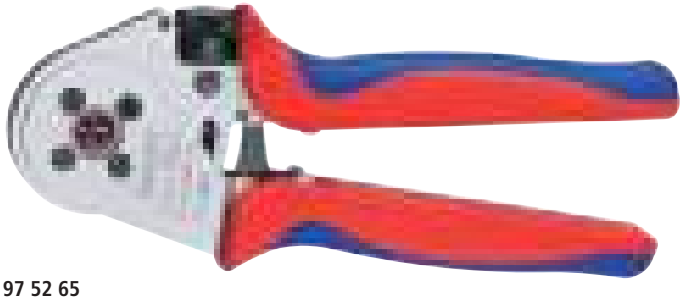
97 52 65 DG
Crimping capacity can be adjusted in increments of .0004" (0.01 mm); with digital display of the preset crimping capacities; adjustment in mm, inches or comparable selection positions according to MIL; with table for calculating the settings; packaged in a plastic case with foam insert and locator for holding the contacts

Turned contacts are used for particularly demanding plug-type connections, e.g. in medical industry and aviation. 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. KNIPEX has all of the tools you need to get these jobs done.

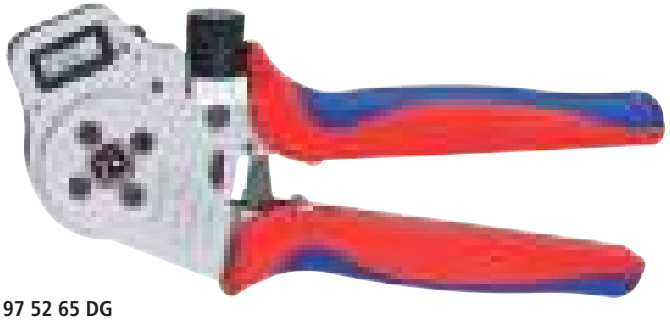
97 59 65 2
Universal Locator

97 52 63 DG
PATENTED

97 52 64



97 52 65
PATENTED



97 52 65 DG
PATENTED

Standard locator

Multifunctional digital indication, adjustment in mm, inches or comparable selection positions according to MIL

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm			Pliers	Handles	Applications	Capacity mm²	AWG	⚖ lbs
97 52 63 DG	X	7 1/2 195		PATENTED	chrome plated	multi-component grips	Turned contacts	0.08 - 2.5	28 - 13	1.89
97 52 64	X	7 1/4 180			chrome plated	multi-component grips	Turned contacts	0.08 - 2.5	28 - 13	0.94
97 52 65	X	9 1/4 235		PATENTED	chrome plated	multi-component grips	Turned contacts (Harting; Ilme; Phoenix; Amphenol; Walther; HTS; Contact; Weidmüller)	0.14 - 6.0	25 - 10	1.5
97 52 65 DG	X	10 250		PATENTED	chrome plated	multi-component grips	Turned contacts (Harting; Ilme; Phoenix; Amphenol; Walther; HTS; Contact; Weidmüller)	0.14 - 6.0	25 - 10	2.8

97 59 65 2	Universal Locator for 97 52 65 / 97 52 65 DG

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

97 53

Narrow handle width and improved ergonomics

- for crimping ferrules (end sleeves) according to DIN 46228 parts 1 + 4
- self-adjustment to the size of ferrules (end sleeves) required
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- crimping pressure has been set precisely (calibrated) in the factory
- optimum transmission of force due to toggle lever for fatigue-reduced operation
- high operation comfort due to hand shape and low weight
- chrome vanadium electric steel in special quality; oil-hardened

97 53 04

97 53 04
Square compression for ferrules (end sleeves) up to 6 AWG; square compression for ideal contact surfaces in the clamp connection; particularly suitable for all twin ferrules (end sleeves) up to 2 x 6 mm² or 2 x AWG 8

97 53 14

97 53 14
Expanded capacity of hexagonal crimping up to 1 AWG; hexagonal compression for confined connection dimensions; particularly suitable for all twin ferrules (end sleeves) up to 2 x 4 mm² or 2 x AWG 10

Crimping capacity can be switched over simply from 8 AWG (10 mm²) to 6 AWG (16 mm²)

Square compression

Hexagonal compression

The small crimping pliers for ferrules (end sleeves) with two major advantages for the user:
- Automatic adjustment to the end sleeves, making work easier for the professional and offers reliable and fast crimping
- Expanded range of applications

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

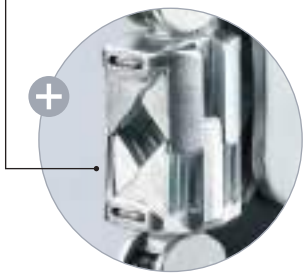
Product Number	Packaging	↔ Inch mm			Pliers	Handles	Applications	Capacity mm²	AWG	Number of crimping positions	lbs
97 53 04		7 1/4 180			burnished	multi-component grips	Ferrules (end sleeves)	0.08 - 10 and 16	28 - 8 and 6	1	0.94
97 53 14		7 1/4 180			burnished	multi-component grips	Ferrules (end sleeves)	0.08 - 10.0	28 - 8	1	0.90

KNIPEX Twistor16

Self-adjusting crimping pliers for end sleeves (ferrules) with rotating crimp head

97 53

97 53 18



Crimp head can be rotated 360°

Crimp head can be freely rotated 360°, with 8 locking positions

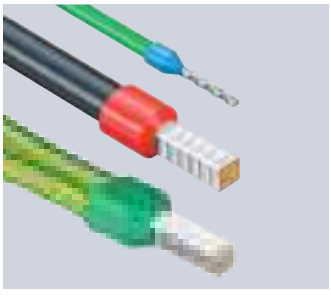
Square crimp profile, high capacity range of 26 to 6 AWG (0.14 to 16 mm²)

End sleeves (ferrules) can be crimped from almost any working position

- crimping pliers adjust automatically to different diameters
- crimp opening is accessible from both sides, extra-long end sleeves can be fed in
- crimping of twin end sleeves (ferrules) up to 2 x 6 mm² possible
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- light and handy tool, manual force reinforced by toggle lever mechanism
- chrome vanadium electric steel in special quality; oil-hardened

Crimp head can be rotated 360° for optimal accessibility, even in confined spaces

Twin end sleeves (ferrules) up to 2 x 6 mm² can be crimped without adjustment



Crimp end sleeves (ferrules) fully automatically within the capacity range of 26 to 6 AWG (0.14 to 16 mm)

Uniquely flexible: connectors can be inserted in the rotatable crimp head from almost any position

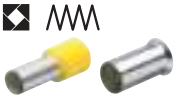
Product Number	Packaging	↔ Inch mm	Capacity mm²	AWG	Number of crimping positions	⚖ lbs
97 53 18		8 200	0.14 - 16	26 - 6	1	1.05

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

97 53

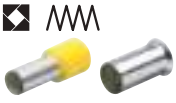
- for crimping ferrules (end sleeves) according to DIN 46228 parts 1 + 4
- self-adjusting adaptation to the desired wire ferrule (end sleeves) size: no crimping faults caused by using the wrong die
- front-loading of the ferrules (end sleeves) into the tool
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- crimping pressure has been set precisely (calibrated) in the factory
- optimum transmission of force due to toggle lever for fatigue-reduced operation
- high operation comfort due to handle shape and low weight
- chrome vanadium electric steel in special quality; oil-hardened

97 53 08



97 53 08
Crimping from 28 - 8 AWG (0.08 - 10.0 mm²) in one profile; wire ferrules (end sleeves) up to 14 AWG (2.5 mm²) can also be loaded parallel from the side; particularly suitable for all twin ferrules (end sleeves) up to 2 x 4 mm² or 2 x AWG 10

97 53 09

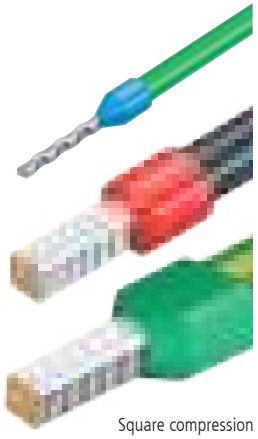


97 53 09
Crimping from 28 - 8 and 6 AWG (0.08 - 10.0 and 16.0 mm²) in one profile; with selector lever for setting the crimping area either to 28 - 8 and 6 AWG (0.08 - 10 mm² or 16 mm²); particularly suitable for all twin ferrules (end sleeves) up to 2 x 6 mm² or 2 x AWG 8

Square crimping

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

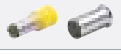
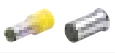
97 53 08: Lateral loading of ferrules (end sleeves) up to 14 AWG (2.5 mm²) parallel from the side e.g. in confined areas



Square compression

The crimping pliers for wire ferrules (end sleeves) with three great advantages for the user:
> Automatic self-adjustment to the wire ferrules (end sleeves): This allowing the professional to work with less strain and enables secure, reliable and quick crimping
> Range of applications for large cross-sections: crimping 28 - 8 and 6 AWG (0.08 to 10.0 + 16.0 mm²)
> Front-loading: very helpful under difficult working conditions in confined spaces

WARNING: This product can expose you to chemicals including Diisononyl Phthalate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm			Pliers	Handles	Applications	Capacity mm²	AWG	Number of crimping positions	⚖ lbs
97 53 08	X	7 1/2 190			burnished	multi-component grips	Ferrules (end sleeves)	0.08 - 10	28 - 8	1	1.05
97 53 09		7 1/2 190			burnished	multi-component grips	Ferrules (end sleeves)	0.08 - 10 and 16	28 - 8 and 6	1	1.07

Crimping Pliers
for wire ferrules (end sleeves)

97 6

- for crimping wire ferrules (end sleeves) according to DIN 46228 parts 1 and 4 in an area of application from 24 - 14 AWG (0.25 up to 2.5 mm²)
- crimping in marked trapezoidal dies for tight connections between the sleeve and the conductor
- vanadium electric steel; forged, oil-hardened

97 62 145 A

97 68 145 A

1000 V

Product Number	Packaging	↔ Inch mm			Head	Handles	Capacity mm²	AWG	Number of crimping positions	lbs
97 61 145 A		5 3/4 145			polished	plastic coated	0.25 - 2.5	24 - 14	4	0.31
97 61 145 F		5 3/4 145			polished	plastic coated	0.25 - 2.5	24 - 14	4	0.31
97 62 145 A		5 3/4 145			polished	multi-component grips	0.25 - 2.5	24 - 14	4	0.38
97 68 145 A		5 3/4 145		1000 V	polished	insulated, multi-component grips, VDE-tested	0.25 - 2.5	24 - 14	4	0.41

Crimping Pliers
for wire ferrules (end sleeves)

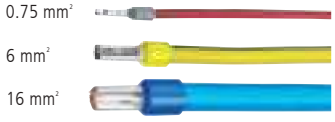
97 7

Easy crimping due to optimized transmission ratio
Light and slim design

- for crimping wire ferrules (end sleeves) according to DIN 46228 parts 1 and 4 from 5 to 23 AWG (0.25 to 16 mm²)
- crimping in marked half-round dies for secure connections between the sleeve and the conductor
- high-grade special tool steel; forged, oil-hardened

97 71 180

97 72 180



Product Number	Packaging	↔ Inch mm			Head	Handles	Applications	Capacity mm²	AWG	Number of crimping positions	lbs
97 71 180		7 1/4 180			polished	plastic coated	ferrules (end sleeves)	0.25 - 16.0	24 - 6	9	0.45
97 72 180		7 1/4 180			polished	multi-component grips	ferrules (end sleeves)	0.25 - 16.0	24 - 6	9	0.53

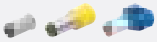
Crimping Pliers

with front loading mechanism for wire ferrules (end sleeves)

97
8

- for crimping ferrules (end sleeves) according to DIN 46228 parts 1 + 4 in the range 0.5 to 6 mm²
- ideal for work in confined areas, e.g. in narrow and deep switch boxes
- special tool steel; forged, oil-hardened

97 81 180

Product Number	Packaging	↔ Inch mm			Head	Handles	Applications	Capacity mm²	AWG	Number of crimping positions	⚖ lbs
97 81 180		7 1/4 180		✓	polished	plastic coated	ferrules (end sleeves)	0.5 - 6.0	24 - 0	1	0.45

Crimp Assortments
for ferrules (end sleeves)

97 90

- in a TANOS MINI-systainer® (solid plastic box)
- T-Loc fastener for one-hand operation: open or close the systainer® with one turn and connect to a second systainer®
- opening when connected: fast and simple access to content without disconnecting
- two stackable plastic inserts with 6 trays each for connectors
- with an assortment of ferrules (end sleeves) with collar

97 90 05
With Crimping Pliers for ferrules 97 71 180

97 90 06
With Crimping Pliers for ferrules 97 71 180

97 90 09
With Self-Adjusting Crimping Pliers for ferrules (end sleeves) 97 53 04

97 90 10
With Self-Adjusting Insulation Strippers 12 40 200; with Self-Adjusting Crimping Pliers for ferrules (end sleeves) 97 53 04

97 90 12
With Self-Adjusting Insulation Strippers 12 40 200; with Self-Adjusting Crimping Pliers for ferrules (end sleeves) 97 53 08

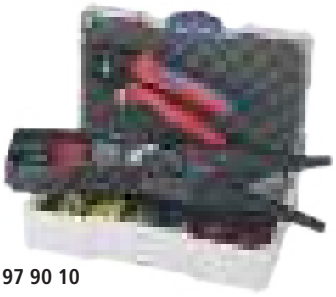
97 90 23
With Crimping Pliers "PreciForce®" for ferrules (end sleeves) 97 52 38

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


97 90 05


97 90 06


97 90 09


97 90 10


97 90 12


97 90 23


97 90 24

Product Number	Packaging	Pliers		Quantity 200 x mm²	150 x mm²	100 x mm²	75 x mm²	50 x mm²	40 x mm²	Units	⚖ lbs
97 90 05	X	Crimping assortment for ferrules (end sleeves)		0.5 / 0.75 / 1 / 1.5 / 2.5	4 / 6	-	-	10 / 16	-	1	2.05
97 90 06	X	97 71 180 Crimping Pliers for ferrules (end sleeves)		0.5 / 0.75 / 1 / 1.5	2.5	-	4 / 6	10	16	1	2.21
97 90 09	X	97 53 04 Self-Adjusting Crimping Pliers for ferrules (end sleeves)		0.5 / 0.75 / 1 / 1.5 / 2.5	-	4 / 6	-	10	-	1	3.13
97 90 10	X	97 53 04 Self-Adjusting Insulation Strippers 12 40 200 Self-Adjusting Crimping Pliers for ferrules (end sleeves)		0.5 / 0.75 / 1 / 1.5 / 2.5	-	4 / 6	-	10	-	1	2.98
97 90 12	X	97 53 08 Self-Adjusting Insulation Strippers 12 40 200 Self-Adjusting Crimping Pliers for ferrules (end sleeves)		0.5 / 0.75 / 1 / 1.5 / 2.5	-	4 / 6	-	10	-	1	3.15
97 90 23	X	97 52 38 Crimping Pliers "PreciForce®" for ferrules (end sleeves)		0.5 / 0.75 / 1 / 1.5 / 2.5	-	4 / 6	-		-	1	2.70
97 90 24	X	97 53 08 Self-Adapting Universal Insulation Stripper "Multistrip 10" 12 42 195 Self-Adjusting Crimping Pliers for ferrules (end sleeves)		0.5 / 0.75 / 1 / 1.5 / 2.5	-	4 / 6	-	10	-	1	2.97

Tool case
for photovoltaics

97
91

- with tools for photovoltaics
- without crimp dies – for individual equipment – please order separately (see ref. 97 49 ..)
- with service tool (Allen key) for changing crimp dies
- shock-resistant plastic case
- foam insert with recesses for tools, crimp dies and locators
- ext. dimension (W x H x D):
  13 37/64 x 3 5/32 x 11" (345 x 80 x 280 mm)

97 91 01

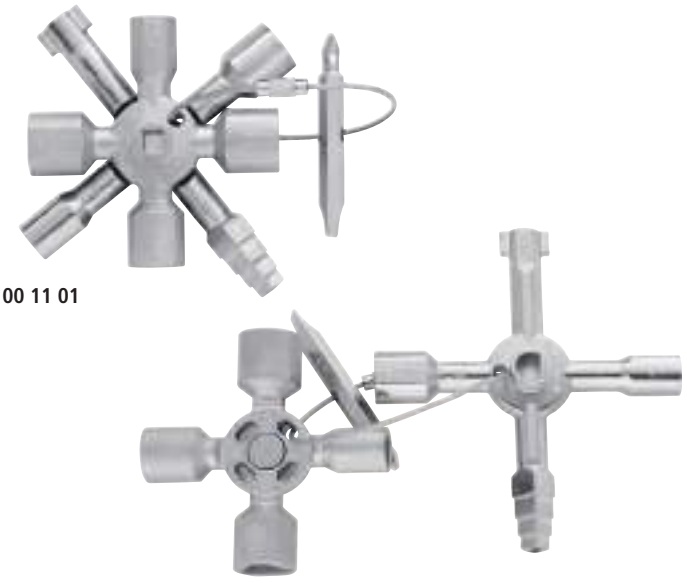
Product Number	Packaging			Description	Units	lbs
97 91 01	X	-	-	Tool case for photovoltaics	-	4.33
			12 12 11	Precision Insulation Stripper, with shaped blades	1	-
		1000 V	95 16 165	Cable Shears	1	-
			97 43 200	Crimp System Pliers, for exchangeable crimp profiles	1	-

97 49 62	Crimp Profile for solar cable connectors (Huber + Suhner)
97 49 63	Crimp Profile for solar cable connectors (Huber + Suhner)
97 49 65	Crimp Profile for solar cable connectors MC 3 (Multi-Contact)
97 49 65 1	Locator for 97 49 65 (solar connectors MC 3)
97 49 66	Crimp Profile for solar cable connectors MC 4 (Multi-Contact)
97 49 66 1	Locator for 97 49 66 (solar connectors MC 4)
97 49 67	Crimp Profile for solar cable connectors SunCon (Hirschmann)
97 49 68	Crimp Profile for turned solar cable connectors (Tyco)
97 49 68 1	Locator for 97 49 68 (solar connectors Solarlok)
97 49 69 1	Crimp Profile for solar cable connectors gesis® solar PST 40 (Wieland)
97 49 69 2	Crimp Profile for solar cable connectors gesis® solar PST 40 (Wieland)

10 Profiles, 2 crosses, 1 key
For all common locking systems

- multifunctional key for the actuation of locking systems from the areas of facilities engineering (heating and sanitation, air conditioning, electro technology), gas and water supply and shut-off systems
- 8-arm version: 2, 4-way wheel wrenches connected in a space-saving way using magnets
- reversible bit: slot 3/64 x 9/32" (1.0 x 7 mm) and PH2 cross slot
- key and reversible bit joined by stable stainless steel wire
- quality surface coating
- lightweight-optimized zinc die-cast design

TwinKey®



00 11 01

⚠ **WARNING:** This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm	Inch mm	Inch mm	Inch mm	Inch mm	Inch mm	lbs
00 11 01	X	3 3/4 95	13/64, 15/64 - 9/32, 5/16 - 23/64, 25/64 - 7/16 5 / 6 - 7 / 8 - 9 / 10 - 11	9/32 - 5/16, 23/64 - 25/64, 7/16 - 15/32 7 - 8 / 9 - 10 / 11 - 12	1/8 - 13/64 3 - 5	15/64 6	15/64 - 23/64 6 - 9	0.33

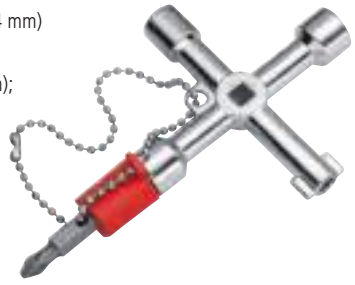
Control Cabinet Keys
for all standard cabinets and shut-off systems

00 11

- for control cabinets and shut-off systems in the supply of gas, water and electricity
- for technical installations in buildings, e.g. air conditioning and ventilation systems, shut-off valves, main switchboards, etc.
- with bit insert: slot 3/64 x 9/32" (1.0 x 7 mm) and cross recess PH2
- with adapter for 1/4" bits on securing chain
- additional bit adapter for 1/4" bits in one arm
- zinc die-casting

00 11 02
Short execution, total length 1 3/4" (44 mm)

00 11 03
Long execution, total length 3" (76 mm); additional square of 13/64" (5 mm)



00 11 03

Product Number	Packaging	↔ Inch mm	Inch mm	Inch mm	Inch mm	lbs
00 11 02	X	1 3/4 44	15/64, 5/16 6 / 8	23/64 9	1/8 - 13/64 3 - 5	0.11
00 11 03	X	3 76	13/64, 15/64, 5/16 5 / 6 / 8	23/64 9	1/8 - 13/64 3 - 5	0.17

Profi-Key
for all standard shut-off systems

00 11

- key for heating, air conditioning, sanitary and building engineering, e.g. for door and window handles or for air bleeding heaters
- with bit insert: slot 3/64 x 9/32" (1.0 x 7 mm) and cross recess PH2
- with adapter for 1/4" bits on securing chain
- additional bit adapter for 1/4" bits in one arm
- total length: 3 1/2" (90 mm)
- zinc die-casting

00 11 04

Product Number	Packaging	↔ Inch mm	Inch mm	Inch mm	Inch mm	lbs
00 11 04	X	3 1/2 90	13/64, 9/32, 5/16 5 / 7 / 8	23/64 - 25/64 9 - 10	15/64, 9/32, 5/16, 23/64 6 / 7 / 8 / 9	0.16

Universal Key
for all standard cabinets and shut-off systems

00 11

- for locking systems in electrical engineering, the supply of gas and water, air conditioning and ventilation systems, industry, technical installations in buildings, etc.
- 9 different die-cast zinc key profiles in 1 tool
- with detachable chain and snap hook
- total length: 3 1/2" (90 mm)
- zinc die-casting

00 11 06

Product Number	Packaging	↔ Inch mm	Inch mm	Inch mm	Inch mm	Inch mm	lbs
00 11 06	X	3 1/2 90	13/64, 15/64, 9/32 - 5/16, 23/64 -25/64 5 / 6 / 7 - 8 / 9 - 10	9/32, 5/16 - 23/64, 25/64 - 7/16 7 / 8-9 / 10 - 11	1/8 - 13/64 3 - 5	15/64 6	0.47

Universal Key "Construction"
for all standard cabinets and shut-off systems

00 11

- for locking systems in electrical engineering, the supply of gas and water, air conditioning and ventilation systems, industry, technical installations in buildings, etc.
- 9 different die-cast zinc key profiles in 1 tool
- "construction" version with plug-in, magnetically held support: catch for locks with profile cylinder hole and male square in steps
- with bit adapter for 1/4" bits with magnet
- with detachable chain and snap hook
- total length: 6 1/4" (160 mm)
- zinc die-casting

00 11 06 V01

Product Number	Packaging	↔ Inch mm	Inch mm	Inch mm	Inch mm	Inch mm	Inch mm	lbs
00 11 06 V01	X	6 1/4 160	13/64, 15/64, 9/32 - 5/16, 23/64 -25/64 5 / 6 / 7 - 8 / 9 - 10	9/32, 5/16 - 23/64, 25/64 - 7/16 7 / 8 - 9 / 10 - 11	1/8 - 13/64 3 - 5	15/64 6	15/64, 9/32, 5/16, 23/64, 25/64 6 / 7 / 8 / 9 / 10	0.56

Magnetic LED Lamp

00 11

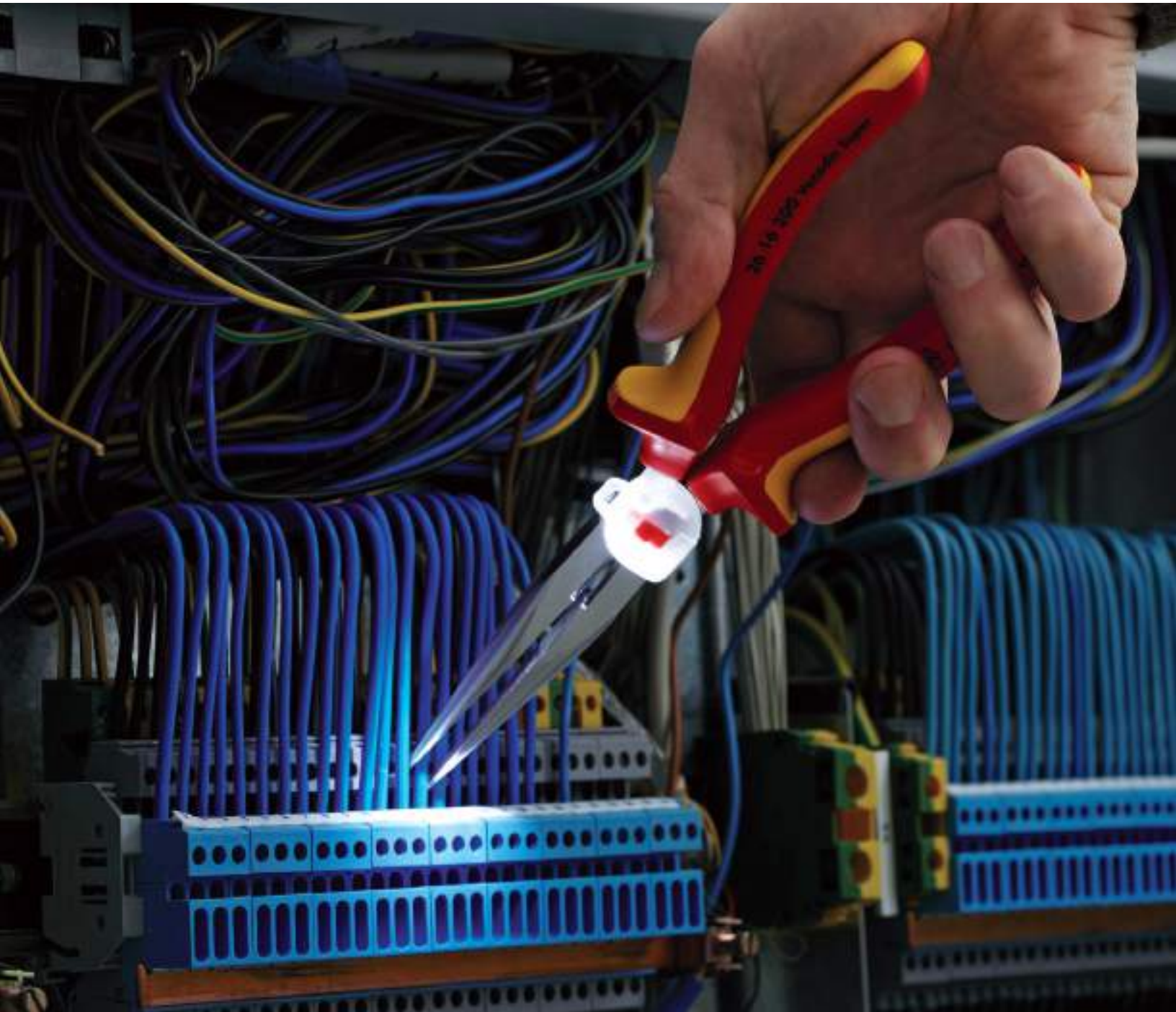
Strong. Bright. Compact.

- for illuminating dark working areas
- attachment to tool by means of strong magnets
- very compact dimensions
- approx. 24 hours of lighting, with 2 replaceable button cells (CR1220)
- snap hook fastening
- impact-resistant plastic housing

00 11 V50

WARNING: This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	⚖ lbs
00 11 V50	X	0.02



Tool Roll
11 parts

00 19

> for telecommunications and electrical engineers
> tool roll made of hard-wearing polyester fabric
> with sturdy, adjustable snap closure
> contains 8 pliers and 3 screwdrivers
> pliers with chrome plated heads and two-color multi-component grips
> screwdrivers VDE tested according to DIN EN/IEC 60900 1000V

00 19 41

Product Number	Packaging			Set contents	Units	lbs
00 19 41		-	Tool Roll 11 parts		-	3.57
			03 05 160	Combination Pliers	1	-
			11 05 160	Insulation Stripper	1	-
			25 05 160	Snipe Nose Side Cutting Pliers, (Radio Pliers)	1	-
			30 15 160	Long Nose Pliers	1	-
			30 35 160		1	-
			31 15 160	Flat Nose Pliers, (Needle Nose Pliers)	1	-
			67 05 140	High Leverage End Cutting Nippers	1	-
			70 05 140	Diagonal Cutter	1	-
		1000 V	98 20 25	Screwdrivers for slotted screws	1	-
		1000 V	98 20 40		1	-
		1000 V	98 24 01	Screwdriver for cross recessed screws, Phillips®	1	-

Family Sets
5-piece

00 19

> tool roll made of hard-wearing polyester fabric
> with hook and loop fastener

00 19 55 S4

00 19 55 S5

Product Number	Packaging			Set contents	Units	lbs
00 19 55 S4		-	Set of Pliers Wrenches		-	4.54
			86 03 125	Pliers Wrench, Pliers and Wrench in a single tool	1	-
			86 03 150		1	-
			86 03 180		1	-
			86 03 250		1	-
			86 03 300		1	-
00 19 55 S5		-	Set of Cobra Water Pump Pliers		-	3.45
			87 01 125	The original push-button pliers	1	-
			87 01 150		1	-
			87 01 180		1	-
			87 01 250		1	-
			87 01 300		1	-

> tool roll made of hard-wearing polyester fabric
> with sturdy, adjustable snap closure

00 19 56
4 common Circlip Pliers for internal and external circlips

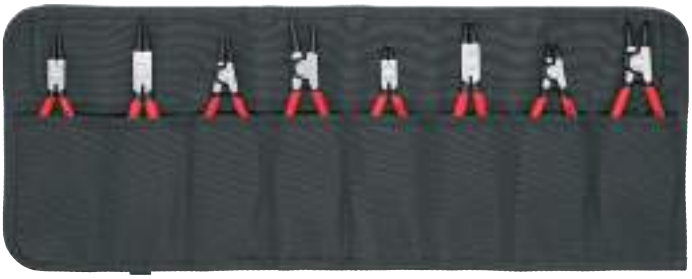
00 19 57
4 common Precision Circlip Pliers for highest requirements

00 19 58 V01
8 common Circlip Pliers for internal and external circlips

00 19 58 V02
8 common Precision Circlip Pliers for highest requirements

00 19 56

00 19 57



00 19 58 V01

00 19 57

Product Number	Packaging			Set contents	Units	lbs
00 19 56	X	-	Set of Circlip Pliers	-	-	1.58
			44 11 J2	Circlip Pliers, for internal circlips in bore holes	1	-
		90°	44 21 J21		1	-
			46 11 A2	Circlip Pliers, to assemble external circlips on shafts	1	-
		90°	46 21 A21		1	-
00 19 57	X	-	Set of Precision Circlip Pliers	-	-	1.62
			48 11 J1	Precision Circlip Pliers, for internal circlips in bore holes	1	-
			48 11 J2		1	-
			49 11 A1	Precision Circlip Pliers, to assemble external circlips on shafts	1	-
			49 11 A2		1	-
00 19 58 V01	X	-	Set of Circlip Pliers	-	-	1.48
			44 11 J1	Circlip Pliers, for internal circlips in bore holes	1	-
			44 11 J2		1	-
		90°	44 21 J11		1	-
		90°	44 21 J21		1	-
			46 11 A1	Circlip Pliers, to assemble external circlips on shafts	1	-
			46 11 A2		1	-
		90°	46 21 A11		1	-
		90°	46 21 A21		1	-
00 19 58 V02	X	-	Set of Precision Circlip Pliers	-	-	1.47
			48 11 J1	Circlip Pliers, for internal circlips in bore holes	1	-
			48 11 J2		1	-
		90°	48 21 J11		1	-
		90°	48 21 J21		1	-
			49 11 A1	Circlip Pliers, to assemble external circlips on shafts	1	-
			49 11 A2		1	-
		90°	49 21 A11		1	-
		90°	49 21 A21		1	-
00 19 56 LE	Empty tool roll					

Belt pouch
empty

00 19

> made of hard-wearing polyester fabric
> for two pliers up to 6" (150 mm) length
> with hook and loop fastener
> with elastic side
> with practical belt loop

00 19 72 LE

Product Number	Packaging	Width Inch mm	Height Inch mm	Depth Inch mm	lbs
00 19 72 LE	X	2 9/16 65	6 7/64 155	1 25	0.17

Tool Pouch
empty

00 19

> made of hard-wearing polyester fabric and leather
> with pockets for up to 8 tools
> tool loops made of leather, riveted
> with snap hook

00 19 73 LE

Product Number	Packaging	Width Inch mm	Height Inch mm	Depth Inch mm	lbs
00 19 73 LE	X	6 3/4 170	9 1/4 235	3 75	0.45

Pliers Sets
in a foam tray

00
20

- packaged in a foam tray for workbenches and tool trolleys
- clearly organized storage of tools
- precisely sized recesses for holding the pliers
- foam insert dimensions (L x W x H):
  13 3/16 x 6 1/2 x 1 19/64" (335 x 165 x 33 mm)
- material: two-color, closed pore foam

00 20 01 V02
6 Circlip Pliers in a foam tray

00 20 01 V15

00 20 01 V16

00 20 01 V17
4 pliers in a foam tray

00 20 01 V02

00 20 01 V15

00 20 01 V17

00 20 01 V16

Product Number	Packaging			Set contents	Units	lbs
00 20 01 V02	X	-	Circlip Pliers Set six precision circlip pliers in a foam tray		-	2.02
			48 11 J1	Precision Circlip Pliers, for internal circlips in bore holes	1	-
			48 11 J2		1	-
		90°	48 21 J21		1	-
			49 11 A1	Precision Circlip Pliers, for external circlips on shafts	1	-
			49 11 A2		1	-
		90°	49 21 A21		1	-
00 20 01 V15	X	-	Pliers Set "Basic" four pliers in a foam tray		-	2.47
			03 02 180	Combination Pliers	1	-
			26 12 200	Snipe Nose Side Cutting Pliers, (Stork Beak Pliers)	1	-
			74 02 180	High Leverage Diagonal Cutter	1	-
			87 01 250	KNIPEX Cobra, High-Tech Water Pump Pliers	1	-
00 20 01 V16	X	-	Pliers Set "Automotive" four pliers in a foam tray		1	1.87
			08 21 145	Needle-Nose Combination Pliers	1	-
			74 01 180	High Leverage Diagonal Cutter	1	-
			28 71 280	Long Reach Needle Nose Pliers, with transverse profiles	1	-
		45°	28 81 280	Long Reach Needle Nose Pliers, with transverse profiles	1	-
00 20 01 V17	X	-	Pliers Set "Basic" four pliers in a foam tray		-	2.41
			03 05 180	Combination Pliers	1	-
			26 15 200	Snipe Nose Side Cutting Pliers, (Stork Beak Pliers)	1	-
			74 05 180	High Leverage Diagonal Cutter	1	-
			87 05 250	KNIPEX Cobra®, High-Tech Water Pump Pliers	1	-

Precision Circlip Pliers Sets

00
20

> contains the most common Precision Circlip Pliers
> form-fitted inserted and pressed-in tips made of high density spring steel
> up to 10 times longer service life compared to turned tips
> internal design for fitting internal circlips in bore holes
> external design for fitting circlips on shafts

00 20 03 SB
4 parts
00 20 04 SB
8 parts

00 20 03 SB

00 20 04 SB

Product Number	Packaging			Set contents	Units	lbs
00 20 03 SB	X	-	Precision Circlip Pliers Set	-	-	1.51
			48 11 J1	Precision Circlip Pliers, for internal circlips in bore holes	1	-
			48 11 J2		1	-
			49 11 A1	Precision Circlip Pliers, to assemble external circlips on shafts	1	-
			49 11 A2		1	-
00 20 04 SB	X	-	Precision Circlip Pliers Set	-	-	2.81
			48 11 J1	Precision Circlip Pliers, for internal circlips in bore holes	1	-
			48 11 J2		1	-
			49 11 A1	Precision Circlip Pliers, to assemble external circlips on shafts	1	-
			49 11 A2		1	-
			48 21 J11	Precision Circlip Pliers, for internal circlips in bore holes	1	-
			48 21 J21		1	-
			49 21 A11	Precision Circlip Pliers, to assemble external circlips on shafts	1	-
			49 21 A21		1	-

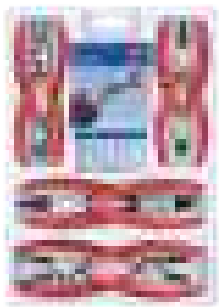
Circlip Pliers Sets

00
20

> contains the most common internal and external Circlip Pliers
> internal design for fitting internal circlips in bore holes
> external design for fitting circlips on shafts

00 20 03 V02
4 parts
00 20 04 V01
8 parts

00 20 03 V02



00 20 04 V01

Product Number	Packaging			Set contents	Units	lbs
00 20 03 V02	X	-	Set of Circlip Pliers	-	-	0.99
			44 11 J1	Circlip Pliers, for internal circlips in bore holes	1	-
			44 11 J2		1	-
			46 11 A1	Circlip Pliers, to assemble external circlips on shafts	1	-
			46 11 A2		1	-
00 20 04 V01	X	-	Set of Circlip Pliers	-	-	1.96
			44 11 J1	Circlip Pliers, for internal circlips in bore holes	1	-
			44 11 J2		1	-
			44 21 J11		1	-
			44 21 J21		1	-
			46 11 A1	Circlip Pliers, to assemble external circlips on shafts	1	-
			46 11 A2		1	-
			46 21 A11		1	-
			46 21 A21		1	-

> popular pliers sets in durable plastic packaging

00 20 05 US

00 20 06 US1

00 20 07 US1

00 20 08 US1

00 20 08 US2

00 20 06 US2

Product Number	Packaging			Set contents	Units	lbs
00 20 05 US	X	-	Set of High Leverage Diagonal Cutters	-	-	2.15
			74 01 160	High Leverage Diagonal Cutter	1	-
			74 01 250		1	-
		12°	74 21 200		1	-
00 20 06 US1	X	-	Cobra® Water Pump Pliers Set	-	-	2.69
			87 01 180	KNIPEX Cobra® High-Tech Water Pump Pliers	0	-
			87 01 250		0	-
			87 01 300		0	-
00 20 06 US2	X	-	Pliers Wrench Set	-	-	3.64
			86 03 180	Pliers Wrench	1	-
			86 03 250		1	-
			86 03 300		1	-
00 20 07 US1	X	-	Alligator® Water Pump Pliers Set	-	-	2.65
			88 01 180	KNIPEX Alligator® Water Pump Pliers	1	-
			88 01 250		1	-
			88 01 300		1	-
00 20 08 US1	X	-	Universal Pliers Set w/Alligator®	-	-	2.15
			26 11 200	Chain Nose Side Cutting Pliers, (stork beak pliers)	1	-
		12°	74 21 200	High Leverage Diagonal Cutter	1	-
			88 01 250	KNIPEX Alligator® Water Pump Pliers	1	-
00 20 08 US2	X	-	Universal Pliers Set w/Cobra®	-	-	2.15
			26 11 200	Chain Nose Side Cutting Pliers, (stork beak pliers)	1	-
		12°	74 21 200	High Leverage Diagonal Cutter	1	-
			87 01 250	KNIPEX Cobra® High-Tech Water Pump Pliers	1	-

> tools in plastic deep-drawn packaging with transparent lid
> attractive sales packaging
> dimensions (W x H x D):
6 3/4" x 15" x 1 1/2"

00 20 09 V01
Pliers with polished heads; handles with non-slip plastic coating or with two-color multi-component grips

00 20 10
Pliers with polished heads and plastic coated handles

00 20 11
Pliers with two-color multi-component handles

00 20 09 V01

00 20 10

00 20 11

Product Number	Packaging			Set contents	Units	lbs
00 20 09 V01	X	-	Bestseller Pack	-	-	2.09
			03 02 180	Combination Pliers	1	-
			70 02 160	Diagonal Cutter	1	-
			87 01 250	KNIPEX Cobra® High-Tech Water Pump Pliers	1	-
00 20 10	X	-	Power Pack	-	-	2.18
			02 01 180	High Leverage Combination Pliers	1	-
			74 01 160	High Leverage Diagonal Cutter	1	-
			87 01 250	KNIPEX Cobra® High-Tech Water Pump Pliers	1	-
00 20 11	X	-	Assembly Pack	-	-	1.79
			03 02 180	Combination Pliers	1	-
			26 12 200	Chain Nose Side Cutting Pliers (stork beak pliers)	1	-
			70 02 160	Diagonal Cutter	1	-

Electronics Pliers Sets
for working on electronic components

00
20

00 20 16
7 parts, contains 6 electronics pliers and one pair of precision tweezers; case made of hard-wearing polyester fabric, pliers are held by elastic band, zippered

00 20 16 P
6 parts, contains 6 precision electronics pliers; case made of hard-wearing polyester fabric, pliers are held by elastic band, zippered

00 20 16 P ESD
6 parts, contains 6 ESD precision electronics pliers, electrically discharging version; case made of hard-wearing polyester fabric, pliers are held by elastic band, zippered

00 20 17
6 parts, contains 6 ESD electronics pliers, electrically discharging version; case made of hard-wearing polyester fabric, pliers are held by elastic band, zippered

00 20 18
8 parts, contains 2 electronics pliers and 6 electronics screwdrivers; practical storage box, shock-resistant plastic, with foam insert

00 20 18 ESD
8 parts, contains 2 ESD electronics pliers and 6 electronics screwdrivers, electrically discharging version; practical storage box, shock-resistant plastic, with foam insert

00 20 16

00 20 16 P ESD

00 20 16 P

00 20 17

00 20 18

00 20 18 ESD

ESD Pliers (electrostatic discharge)

Electrostatic energy is discharged through the handles in a gradual and controlled manner which protects components endangered by electrostatic discharge in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

Product Number	Packaging	Set contents	lbs
00 20 16		35 12 115 / 35 22 115 / 35 32 115 / 64 32 120 / 77 02 115 / 77 42 115 / 92 34 36	1.59
00 20 16 P		34 12 130 / 34 22 130 / 34 32 130 / 79 02 120 / 79 02 125 / 79 42 125	1.27
00 20 16 P ESD		34 12 130 ESD / 34 22 130 ESD / 34 32 130 ESD / 79 02 120 ESD / 79 02 125 ESD / 79 42 125 ESD	1.29
00 20 17		35 12 115 ESD / 35 22 115 ESD / 35 42 115 ESD / 64 32 120 ESD / 77 02 115 ESD / 77 32 115 ESD	1.53
00 20 18		35 22 115 / 77 02 115 / screw drivers 0.4 x 2.5 / 0.5 x 3.0 / 0.6 x 3.5 / 0.8 x 4.0 / PH0 / PH1	1.01
00 20 18 ESD		35 22 115 ESD / 77 02 115 ESD / screw drivers 0.4 x 2.5 / 0.5 x 3.0 / 0.6 x 3.5 / 0.8 x 4.0 / PH0 / PH1	1.03

Mini Pliers Sets
in belt tool pouch

00 20

- small tools that can be carried easily on any job
- belt tool pouch can carry 2 tools up to 6" long
- tool bag made of tough polyester fabric, with hook and loop fastening and belt loop
- attractive cardboard packaging for merchandising
- dimensions (W x H x D):
  2 3/4 x 6 11/16 x 2" (70 x 170 x 50 mm)

00 20 72 V02

00 20 72 V01

Product Number	Packaging			Set contents	Units	lbs
00 20 72 V01	X	-	Mini pliers set in belt tool pouch	-	-	0.77
			86 03 150	Mini Pliers Wrench	1	-
			87 01 125	KNIPEX Cobra® High-Tech Water Pump Pliers	1	-
00 20 72 V02	X	-	Mini pliers set in belt tool pouch	-	-	0.86
			74 01 160	High Leverage Diagonal Cutter	1	-
			87 01 150	KNIPEX Cobra® High-Tech Water Pump Pliers	1	-

00 19 72 LE	Belt pouch for two pairs of pliers, empty

Pliers Sets
2-Piece

00 31

- perfect starter sets with our most popular pump pliers
- 7 1/4" and 10" sizes
- the Cobra Pliers set offers a push-button adjustment that stays set in place until you change it.
- the Alligator Pliers set offers easy adjustment with 9 positions to find the perfect position

00 31 V01 US

00 31 20 V02

Product Number	Packaging			Set contents	Units	lbs
00 31 V01 US	X	-	Cobra® Water Pump Pliers Set	-	-	1.15
			87 01 180	KNIPEX Cobra® High-Tech Water Pump Pliers	1	-
			87 01 250	KNIPEX Cobra® High-Tech Water Pump Pliers	1	-
00 31 20 V02	X	-	Alligator® Water Pump Pliers Set	-	-	1.18
			88 01 180	KNIPEX Alligator® Water Pump Pliers	1	-
			88 01 250	KNIPEX Alligator® Water Pump Pliers	1	-

Tool Case "BIG Twin Move"

with integrated rollers and telescopic handle
empty

00 21

- heavy-duty ABS material, black
- all-round aluminum frame mounted sturdy center board, each side contains multi-purpose push-in facilities by elastic loops and 12 small pockets
- pull-out handle embedded in the base and two integrated smooth in-line skater runners
- 66 pound (30 kg) maximum load
- can be opened on one or both sides (V form); base tray and cover can be partially or fully opened independently of each other; stands securely in all opening positions; the special runners are gentle on the floor and ensure stability
- lockable
- removable document compartment and removable tool panel with 13 tool pouches
- base tray height 2 23/64" (60 mm), can be subdivided by flexible inserts; tool panel as cover plate with 13 tool pouches

00 21 41 LE

Product Number	Packaging	Dimension external (internal) width Inch mm	Dimension external (internal) height Inch mm	Dimension external (internal) depth Inch mm	lbs
00 21 41 LE		20 (18 7/8, 17 1/2) 510 (480/445)	10 5/8 (4 9/64) 270 (105)	16 9/64 (14 9/16, 13) 410 (370/330)	18.96


KNIPEX
Vanadium-Supet

Effective protection against accidents caused by falling tools. The tether attachment is on the multi-component handles.

The tether attachment point for the range with multi-component handles

Tools can fall down anytime you are using them from a high height, for example; when using them on cherry pickers, scaffolding, ladders and by industrial climbers working with wire rope hoists.

KNIPEX offers a wide range of pliers and accessories that can reliably prevent the KNIPEX pliers from falling down.

There is a very stable tether attachment on the inside of the handles which is welded onto the handle for attaching the tether or adapter strap. The lug enables the equipment to be attached and put down quickly. The sophisticated elements from our KNIPEX Tethered Tools Program offers several individual variations for connection and use.

Tether attachment: dynamic load capacity for a max. fall height of 10 ft / 3 m by a tool from the KNIPEX TT range.

Please read all warnings on product packaging carefully

> Do not use on live circuits. Always switch off power.
> Always wear approved eye protection.
> NO PPE = No Personal Protective Equipment.
> Only for latching tools from the KNIPEX Tethered Tools range, connected and combined in accordance with this description.
> Tether extends to length of around 5 feet (1.5 m) rig to avoid contact with objects below.
> Do not use around moving or rotating equipment.
> Will not support human weight.
> Inspect for wear before each use. Do not use if evidence of wear.

TETHERED TOOLS

The Tool Drop Protection System

for tools with tether attachment

- Versatile application potential ranging from building construction to industrial climbers
- Reliably prevents the tool from falling down, and can protect against serious injuries, damage to property or loss

Tether

00 50

> wide working radius: flexible tether for user-friendly work
> variable fastening options: with strap made of a flat belt sewn to one end and a cord and cord stopper sewn into the other end
> suitable for all KNIPEX pliers with tether attachment

Adapter Straps

00 50

> diverse options for fastening in combination with the carabiner and the tether
> permits fast, safeguarded switching from the fastener on the tool bag to the tether and from one tool to another
> suitable for all KNIPEX pliers with tether attachment

Carabiners

00 50

> with screw lock to prevent accidental opening
> strong and light aluminum design weighing just 1 ounce
> for connecting adapter strap and tether or to attach these to a fixed point

00 50 04 T BKA: The complete tethering system set

The tether made of gathered fabric tape expands to a length of approx. 5' (1.5 m) when under strain

When tightened, the screw lock prevents inadvertent opening of the carabiner

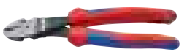
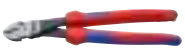
The adapter strap provides the flexible connection between tool and the reliable tether point

Read all warnings before using

Pliers with tether attachment point

Complete range

Pliers range with tether attachment point for a tool tether

	Product Number	Description
	02 02 225 T BKA black atramentized; head polished	High Leverage Combination Pliers, requires 35% less effort than conventional combination pliers
	08 22 145 T BKA black atramentized; head polished	Needle-Nose Combination Pliers, slim head for use in inaccessible work areas
	09 02 240 T BKA black atramentized; head polished	Lineman´s Pliers, ultra-high leverage design for 25% easier cutting power
	09 12 240 T BKA black atramentized; head polished	09 12 240 T BKA: with a universal terminal crimper and a fish tape puller on the backside
	13 02 614 T BKA black atramentized; head polished	Electrician's Pliers, ideal for cable work, gripping and bending wire or even cutting medium hard and hard wire
	13 82 8 T BKA black atramentized; head polished	Electrical Installation Pliers, multifunctional 6-in-1 pliers for electrical installation; cutting, stripping, crimping, gripping, bending and deburring
	26 12 200 T BKA black atramentized; head polished	Long Nose Pliers w/Cutter, elastic precision tips will not deform or bend and will spring back into place
	26 22 200 T BKA black atramentized; head polished	26 22 200 T BKA: with 40° angled tips for hard to reach spaces
	71 02 200 T BKA black atramentized	KNIPEX CoBolt® Compact Bolt Cutters, particularly high cutting performance with little physical effort
	71 22 200 T BKA black atramentized	71 22 200 T BKA: 20° angled head with single-sided joint bar and diagonal cutting edge for almost flush cutting
	71 32 200 T BKA black atramentized	71 32 200 T BKA: notch in the blade for cutting thicker wire
	74 02 200 T BKA black atramentized; head polished	High Leverage Diagonal Cutters, high cutting performance with minimum effort. Available in 8" and 10" lengths
	74 02 250 T BKA black atramentized; head polished	
	74 22 200 T BKA black atramentized; head polished	12° angled head in a 8" length
	74 22 250 T BKA black atramentized; head polished	12° angled head in a 10" length

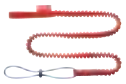
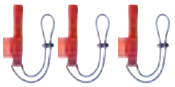
Pliers range with tether attachment point for a tool tether

	Product Number	Description
	86 05 180 T BKA chrome plated	Pliers Wrenches, pliers and a wrench in a single tool, for damage free installation of plated fittings; Available in 7 1/4" and 10" lengths
	86 05 250 T BKA chrome plated	
	87 02 180 T BKA grey atramentized; head polished	KNIPEX Cobra® High-tech Water Pump Pliers, grips any shaped object – round, square, hex or flat. Push-button adjustment means that once the capacity is set, it stays set. Available in 7 1/4", 10" and 12" lengths
	87 02 250 T BKA grey atramentized; head polished	
	87 02 300 T BKA grey atramentized; head polished	
	88 02 250 T BKA black atramentized; head polished	KNIPEX Alligator® Water Pump Pliers, self-locking on pipes and nuts – no slipping off the workpiece, box-joint design for high stability. Available in 10" and 12" lengths
	88 02 300 T BKA black atramentized; head polished	
	95 12 165 T BKA burnished	Cable Shears, precision ground, hardened blades: clean and smooth cut without crushing and deformation
	95 62 190 T BKA head polished	Wire Rope Cutter, special blade geometry prevents the wire rope from fanning out

VDE Pliers range with tether attachment point for a tool tether

	Product Number	Description
	26 16 200 T N chrome plated	Snipe Nose Side Cutting Pliers, (Stork Beak Pliers), extremely durable, elastic precision tips; half-round, long, pointed jaws 26 16 200 T: straight 26 26 200 T: bent
	26 26 200 T N chrome plated	
	70 06 160 T N chrome plated	Diagonal Cutter, slim head for use in inaccessible work areas; available with fall protection in a compact length of 160 mm and a robust 180 mm length
	70 06 180 T N chrome plated	
	74 06 200 T N chrome plated	High Leverage Diagonal Cutters, high cutting performance with minimum effort; Available with fall protection in lengths of 200 mm and 250 mm
	74 06 250 T N chrome plated	
	87 26 250 T N chrome plated	KNIPEX Cobra® VDE, High-Tech Water Pump Pliers, push the button for adjustment on the workpiece and nuts
	95 16 165 T N chrome plated	Cable Shears, precision ground, hardened blades: clean and smooth cut without crushing and deformation

Drop protection system for tools with tether attachment point

	Product Number	Description
	00 50 01 T BK N	1 x Tether Wide working radius: the tether made of gathered fabric tape expands to a length of approx. 1.5 m when under strain
	00 50 02 T BK N	3 x Adapter straps Flexible connection between tool and the reliable tether point
	00 50 03 T BK N	2 x Carabiner When tightened, the screw lock prevents inadvertent opening of the carabiner
	00 50 04 T BK N	Tethering System Set For diverse options for attaching KNIPEX pliers using the tether attachment (1 x Tether, 3 x Adapter straps, 2 x Carabiner)

Testing dielectric strength, subjecting each pair of pliers to a load of 10,000 V AC.

Insulated tools are a matter of trust

Professionals trust their tools. This trust is vital when working on electrical installations. In this case, the electrician holding the pliers is also holding his life in his hands. Our insulated tools therefore not only meet statutory requirements, but also offer the greatest possible safety, reliability and performance.

Testing the adhesion of the insulating coating at 500 N.

Pressure test at 70°C.

Low temperature impact test.

Testing the electrical insulating properties.

Regulated by standards

Only trained professionals are allowed to work on live installations. Such work is subject to strict occupational health and safety standards such as the German DIN VDE 0105, the international EN 50110 and IEC 60364 and the USA NFPA 70E. In each case they must deploy special tools that have been specifically manufactured and tested for this work. Tools used in live work must meet the requirements determined by DIN EN / IEC 60900 and NFPA 70E. KNIPEX tools which bear the special mark **1000 V** are approved for work up to 1000 V AC.

Guaranteed individually checked

Every insulated tool undergoes, one by one, a dielectric strength at 10,000 V AC before we sell it. This means that work in the area up to 1,000 V AC has a safety buffer of ten times the permitted maximum limit. Other procedures check the reliability of the insulation towards heat, cold, tensile and impact force. In addition to the KNIPEX quality assurance team, external institutes and test centers such as the VDE guarantee that all insulated criteria have been satisfied. We stand by this responsibility with our name on the insulation of KNIPEX tools.

Strong beneath the insulation

The insulation provides safety when handling electrical installations, but the mechanical properties of the basic tool, such as cutting performance, precision and stability remain the other key-factor for a reliable function of insulated tools.

With our insulated pliers, users can depend on the quality and durability of products from KNIPEX production. For assembly tools insulated by us, we use basic tools from tried and tested suppliers whose quality we subject to regular, stringent checks. The expert can rely on this double dependability of tool and insulation.

Always comply with the current 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.

High Leverage Combination Pliers
DIN ISO 5746 IEC 60900 DIN EN 60900

02

35% less effort required than with conventional combination pliers
Cutting edge hardness (approx. 63 HRC) for heavy-duty cutting

> easier work due to high leverage design
> easier cutting, powerful gripping, bending and pulling
> long cutting edges for thicker cables
> gripping zones for flat and round material for a variety of uses
> high-grade special tool steel; forged, multi stage oil-hardened

02 08 200 US
1000 V ASTM

02 08 225 US
1000 V ASTM

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	mm²	lbs
02 08 200 US	X	8 200	1000 V ASTM	black atramentized	polished	insulated, multi-component grips, ASTM-tested	7/64 2.8	3/32 2.2	1/2 13.0	25.0	0.82
02 08 225 US	X	9 225					1/8 3.0	3/32 2.5	35/64 14.0	25.0	0.95

Combination Pliers
DIN ISO 5746 IEC 60900 DIN EN 60900

03

> gripping zones for flat and round material for a variety of uses
> cutting edges for soft and hard wire
> long cutting edges for thicker cables
> cutting edge hardness (approx. 60 HRC)
> special tool steel; forged, multi stage oil-hardened

03 08 160 SBA
1000 V ASTM

03 08 200 SBA
1000 V ASTM

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	mm²	lbs
03 08 160 SBA	X	6 1/4 160	1000 V ASTM	black atramentized	polished	insulated, multi-component grips, ASTM-tested	1/8 3.1	5/64 2.0	25/64 10.0	16.0	0.55
03 08 200 SBA	X	8 200					5/32 3.8	3/32 2.5	1/2 13.0	16.0	0.76

Needle-Nose Combination Pliers
DIN ISO 5746

08

Small high leverage combination pliers with pointed jaw
For all common installation and repair work

Handy for use when working in confined areas due to slim head design and pointed jaws (anti-twist)

> easy cutting due to the high leverage joint
> cutting edges for soft, medium hard and hard wire
> long service life and stable tips
> high-grade special tool steel; forged, multi stage oil-hardened

08 28 145 US
1000 V ASTM

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	mm²	lbs
08 28 145 US	X	5 3/4 145	1000 V ASTM	black atramentized	polished	insulated, multi-component grips, VDE-tested	1/8 3.0	5/64 2.0	5/16 8.0	16.0	0.39

Lineman's Pliers
DIN ISO 5746 IEC 60900 DIN EN 60900

09

> effective cross-hatched knurled gripping zone in the jaws – for strong gripping and pulling
> cutting edges for soft and hard wire, nails, ACSR and piano wire
> cutting edge hardness (approx. 64 HRC)
> vanadium steel, forged, multi stage oil-hard

09 08 240 US
1000 V ASTM

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	lbs
09 08 240 US	X	9 1/2 240	1000 V ASTM	black atramentized	polished	insulated, multi-component handles, ASTM-tested	3/16 4.6	1/8 3.0	1.02

Insulation Strippers
IEC 60900 DIN EN 60900

11

> for single, multi and fine-stranded conductors with plastic or rubber insulation max. 13/64" (5.0 mm) dia., suitable for 8 AWG wire
> easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut
> special tool steel; forged, oil-hardened

11 08 160 SBA
1000 V ASTM

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Stripping capacities Ø Inch Ø mm	Stripping capacities mm²	AWG	lbs
11 08 160 SBA	X	6 1/4 160	1000 V ASTM	black atramentized	polished	insulated, multi-component grips, ASTM-tested	13/64 5.0	10.0	up to 8	0.40

Installation Pliers 13

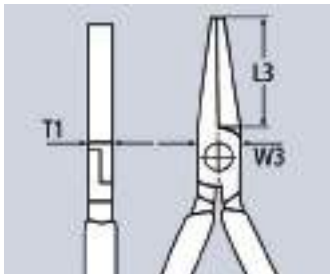
> to grip flat and round material, for bending, deburring, cutting cable,
> smooth surfaces near the tips grip single conductors without damaging them; serrated gripping surfaces and pipe grip for gripping flat and round material
> clear-cut outside edge on the jaw for working on flush-mounted junction boxes and deburring feed-through holes
> cable shears with induction hardened precision cutting edges
> slim dimensions for easy access in confined areas
> bolted joint: precise, zero-backlash operation of pliers
> high-grade special tool steel; forged, multi stage oil-hardened

13 88 8 US
1000 V ASTM

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch	Cutting capacities AWG	Stripping capacities for cross-sections AWG	Crimping capacities AWG	lbs
13 88 8 US	X	8 200	1000 V ASTM	black atramentized	polished	insulated, multi-component grips, ASTM-tested	9/16	0	12 and 14	12 - 20	0.60

Flat Nose Pliers 20
DIN ISO 5745 IEC 60900 DIN EN 60900

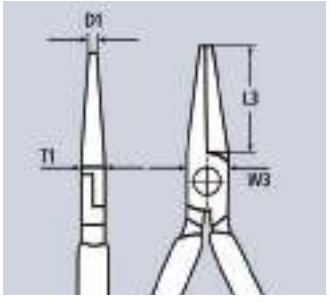
> flat, short, wide jaws
> serrated gripping surfaces
> chrome vanadium electric steel; forged, oil-hardened



20 06 160
1000 V

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Dimensions L3 Inch mm	Dimensions W3 Inch mm	Dimensions T1 Inch mm	lbs
20 06 160		6 1/2 165	1000 V	chrome plated	insulated, multi-component grips, VDE-tested	1 3/16 30.0	43/64 17.0	3/8 9.5	0.41

Round Nose Pliers 22
DIN ISO 5745 IEC 60900 DIN EN 60900



> for bending wire loops
> round, short jaws; smooth ground
> smooth tips
> special tool steel; forged, oil-hardened

22 08 160 SBA
1000 V ASTM

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Dimensions L3 Inch mm	Dimensions W3 Inch mm	Dimensions D1 Inch mm	Dimensions T1 Inch mm	lbs
22 08 160 SBA	X	6 1/4 160	1000 V ASTM	black atramentized	polished	insulated with multi-component grips, ASTM-tested	1 3/16 30.0	45/64 18.0	1/8 3.0	3/8 9.5	0.40

Snipe Nose Side Cutting Pliers

Radio Pliers, DIN ISO 5745 IEC 60900 DIN EN 60900

25

> suitable for fine gripping and cutting work
> pointed, half-round jaws
> serrated gripping surfaces
> cutting edges for soft, medium hard and hard wire
> induction hardened cutting edges, cutting edge hardness (approx. 61 HRC)
> vanadium steel; forged, multi stage oil-hardened

25 08 160 SBA

1000 V ASTM

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm		Dimensions L3 Inch mm	W3 Inch mm	T1 Inch mm	W4 Inch mm	T2 Inch mm	lbs
25 08 160 SBA	X	6 1/4 160	1000 V ASTM	black atramentized	polished	insulated, multi-component grips, ASTM-tested	3/32 2.5	1/16 1.6	1 31/32 50.0	21/32 16.5	23/64 9.0	1/8 3.0	3/32 2.5	0.34

Snipe Nose Side Cutting Pliers

Stork Beak Pliers

DIN ISO 5745 IEC 60900 DIN EN 60900

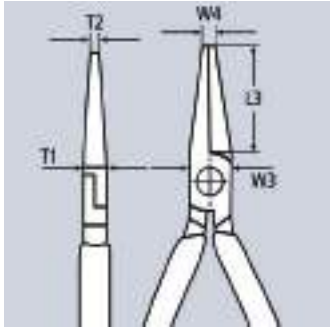
26

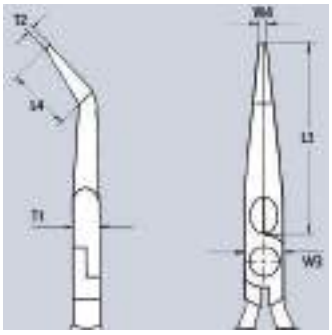
Elastic tips: stable even when twisted

> distortion-tolerant, flexible precision tips
> half-round, long, pointed jaws
> with hardened cutting edges (approx. 61 HRC) for soft, medium hard and hard wire
> vanadium steel; forged, multi-stage oil-hardened

26 18 200 US

1000 V ASTM





26 28 200 SBA

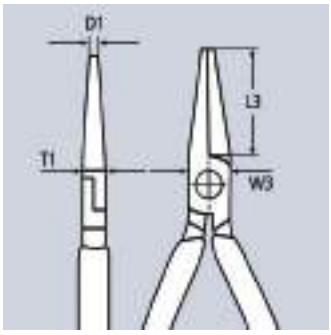
1000 V ASTM 40°

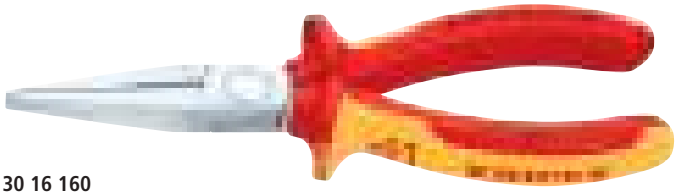
Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm		Dimensions L3 Inch mm	T1 Inch mm	W3 Inch mm	W4 Inch mm	T2 Inch mm	lbs
26 18 200 US	X	8 200	1000 V ASTM	black atramentized	polished	insulated, multi-component grips, ASTM-tested	1/8 3.2	3/32 2.2	2 7/8 73.0	3/8 9.5	45/64 18.0	1/8 3.0	3/32 2.5	0.45
26 28 200 SBA	X	8 200	1000 V ASTM 40°	black atramentized	polished	insulated, multi-component grips, ASTM-tested	1/8 3.2	3/32 2.2	2 7/8 73.0	3/8 9.5	45/64 18.0	1/8 3.0	3/32 2.5	0.46

Long Nose Pliers
DIN ISO 5745 IEC 60900 DIN EN 60900

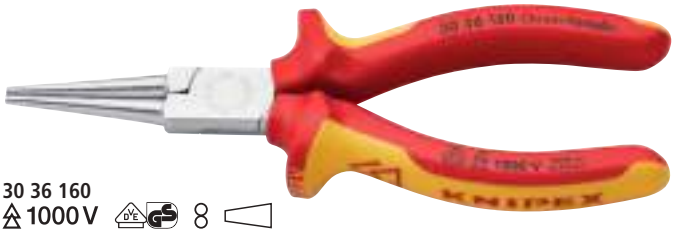
30

> heavy-duty and hard-wearing gripping pliers
> different jaw styles for a wide range of applications
> chrome vanadium electric steel; forged, oil-hardened





30 16 160
1000 V



30 36 160
1000 V

Style 1
Long, trapezoidal jaws; serrated gripping surfaces

Style 3
Long, round jaws; smooth gripping surfaces

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Style	Dimensions L3 Inch mm	W3 Inch mm	T1 Inch mm	W4 Inch mm	T2 Inch mm	lbs
30 16 160		6 1/4 160	1000 V	chrome plated	insulated, multi-component grips, VDE-tested	1	1 53/64 46.5	21/32 16.5	3/8 9.5	1/8 3.0	13/64 5.0	0.33
30 36 160		6 1/4 160	1000 V	chrome plated	insulated, multi-component grips, VDE-tested	3	1 19/32 41.0	21/32 16.5	3/8 9.5	13/64 5.0	3/32 2.5	0.31

Diagonal Cutters
DIN ISO 5749 IEC 60900 DIN EN 60900

70

> essential cutting tool for all-around 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 even at the cutting edge tips
> induction hardened cutting edges (approx. 62 HRC)
> narrow head style for use in confined areas
> vanadium steel; forged, multi stage oil-hardened
> 70 26 160 has a strong precision rivet for smooth movement and 20% higher cutting force

Slim head style and precise cutting capability are perfect for working in confined areas

70 08 180 SBA
1000 V ASTM

70 26 160
With elongated cutting edge
1000 V

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	lbs
70 08 160 SBA	X	6 1/4 160	1000 V ASTM	black atramentized	polished	insulated, multi-component handles, ASTM-tested	5/32 4.0	1/8 3.2	5/64 2.0	0.49
70 08 180 SBA	X	7 1/4 180					5/32 4.0	1/8 3.0	3/32 2.5	0.58
70 26 160		6 1/4 160	1000 V	chrome plated		insulated, multi-component grips, VDE-tested	5/32 4.0	1/8 3.0	5/64 2.0	0.51

KNIPEX X-Cut®
Compact Diagonal Cutter
IEC 60900 DIN EN 60900

73

Powerful, light and universal

Cuts fine strands as well as multi-stranded cables and piano wires

> box-joint design: highest stability with low weight
> high cutting performance with minimum effort due to optimum coordination of the cutting edge angle and transmission ratio
> large opening width for thicker cables
> cuts all wires precisely, even fine copper wires
> double supported joint axis for heavy-duty work
> compact, lightweight construction
> universal usage in the assembly, maintenance and production
> chrome vanadium heavy-duty steel; forged, multi stage oil-hardened

73 06 160
1000 V

X-Cut®

40% less effort required
compared with standard diagonal cutters of the same length with double mounted hinged joint.

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	lbs
73 06 160		6 1/4 160	1000 V	chrome plated	insulated, multi-component grips, VDE-tested	3/16 4.8	5/32 3.8	7/64 2.7	3/32 2.2	15/32 12.0	0.41

High Leverage Diagonal Cutters
DIN ISO 5749 IEC 60900 DIN EN 60900

74

> forged-on axle for heavy-duty work
> for very tough, continuous use
> high cutting performance with minimum effort due to optimum coordination of the cutting edge angle and transmission ratio
> precision cutting edges induction hardened (approx. 64 HRC) cuts several types of wire including piano wire
> chrome vanadium heavy-duty steel; forged, multi stage oil-hardened

78 08 250 SBA
The 10" long diagonal cutter is suitable for copper conductors up to 16 mm² and aluminum conductors up to 35 mm²

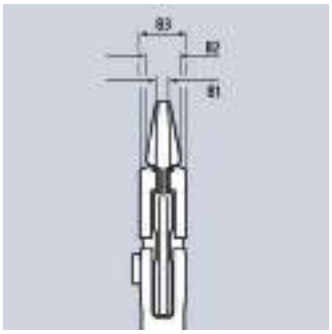
74 08 200 US
1000 V ASTM

20% less effort required
compared to conventional diagonal cutters of the same length, with forged-on joint axle.

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Cutting capacities Ø Inch Ø mm	Ø Inch Ø mm	Ø Inch Ø mm	lbs
74 08 200 US	X	8 200	1000 V ASTM	black atramentized	polished	insulated, multi-component handles, ASTM-tested	11/64 4.2	1/8 3.0	3/32 2.5	0.68
74 08 250 US	X	10 250					3/16 4.6	9/64 3.5	1/8 3.0	1.04

Pliers Wrench
insulated
IEC 60900 DIN EN 60900

86 07



Scale for setting the opening width off the workpiece (metric on the front and imperial on the back)

- pliers and a wrench in a single tool
- excellent for gripping, holding, pressing and bending applications
- zero backlash jaw surface pressure prevents damage to edges of sensitive components
- opening width lasered onto the pliers head for setting before putting the tool on the workpiece
- adjustment at the touch of a button directly on the workpiece
- parallel jaws allow infinitely variable gripping of all widths to the specified maximum size
- the action of the jaws allows bolted connections to be tightened and released quickly using the ratchet principle
- lever transmission greater than 10 - 1 for strong gripping power
- chrome vanadium electric steel; forged, oil-hardened

86 06 250 US
1000 V

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Inch mm	Adjustment positions	Dimensions B1 Inch mm	B2 Inch mm	B3 Inch mm	lbs
86 06 250 US	X	10 250	1000 V	chrome plated	Insulated, multi-component grips, VDE-tested	2 52	19	5/16 8	5 /16 8	35/64 14	1.14

KNIPEX Alligator®
Water Pump Pliers
DIN ISO 8976 IEC 60900 DIN EN 60900

88

More output and comfort compared to conventional water pump pliers of the same length: offers 9 adjustment positions for 30% more gripping capacity

- good access to the workpiece due to slim size in the head and joint area
- self-locking on pipes and nuts: no slipping off the workpiece and low handforce 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
- pinch guard prevents operators´ fingers being pinched
- chrome vanadium electric steel; forged, multi stage oil-hardened

88 07 300
1000 V

88 08 250 US
1000 V ASTM

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Ø Inch Ø mm	Inch mm	Adjustment positions	lbs
88 07 300	X	12 300	1000 V	chrome plated	chrome plated	plastic dipped insulated, VDE-tested	2 3/4 70	2 3/64 60	9	1.46
88 08 250 US	X	10 250	1000 V ASTM	black atramentized	polished	insulated, multi-component handles, ASTM-tested	1 31/32 50	1 13/16 46	9	0.87

KNIPEX Cobra®

High-Tech Water Pump Pliers, insulated

DIN ISO 8976 IEC 60900 DIN EN 60900

87
26

- adjustment by shifting the jaw directly on to the workpiece: fast, secure and comfortable handling
- opening at the touch of a button apart from the workpiece
- fine adjustment for optimum adaptation to different workpiece sizes and comfortable gripping position
- good access to the workpiece due to slim size in the head and joint area
- self-locking on pipes and nuts: no slipping off the workpiece and low handforce 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
- pinch guard prevents operators´ fingers being pinched
- chrome vanadium electric steel; forged, multi stage oil-hardened

87 28 250 US

1000 V ASTM

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

Quick adjustment to the workpiece without using a push-button

Just push the pliers handle to adjust

Product Number	Packaging	↔ Inch mm		Pliers	Head	Handles	Ø Inch	Ø Inch Ø mm	Inch mm	Adjustment positions	lbs
87 28 250 US	X	10 250	1000 V ASTM	grey atramentized	polished	insulated, multi-component grips, ASTM-tested	2	1 31/32 50	1 13/16 46	24	0.88

Precision Tweezers
IEC 60900 DIN EN 60900

92

> insulated and tested according to IEC 60900
> plastic dipped insulated
> chrome plated
> spring steel, high-strength

92 27 61
For ultra fine mounting work; extra fine tips; straight tips; gripping surfaces matte finish for optimum grip

92 27 62
Straight tips; gripping surfaces with fine transverse serration

92 37 64
Bent tips; gripping surfaces with fine transverse serration

92 67 63
Straight tips; serrated gripping surfaces

92 27 61
1000 V

92 27 62
1000 V

92 37 64
1000 V 45°

92 67 63
1000 V

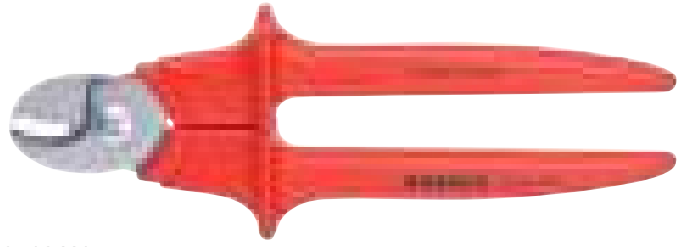
Product Number	Packaging	↔ Inch mm		Finish	⚖ lbs
92 27 61		5 1/8 130	1000 V	plastic dipped insulated, VDE-tested	0.07
92 27 62		6 150	1000 V	plastic dipped insulated, VDE-tested	0.08
92 37 64		6 150	1000 V 45°	plastic dipped insulated, VDE-tested	0.08
92 67 63		5 3/4 145	1000 V	plastic dipped insulated, VDE-tested	0.10

Cable Shears
IEC 60900 DIN EN 60900

95
0

> for cutting copper and aluminum cables
> not suitable for steel wire and hard drawn copper conductors
> precision ground, hardened blades
> no crushing, slight deformation of the cable only
> with pinch guard and slip guard
> adjustable bolted joint
> shears body: surgical steel, stainless, vacuum-hardened
> handles: plastic, impact-resistant

95 06 230
For copper conductors single wire up to 5/8" (16 mm²), multi-stranded wire up to 1/0 AWG (50 mm²), fine stranded up to 70 mm² and aluminum conductors multi-stranded wire up to 70 mm²; Easy cutting with one-hand operation due to high transmission ratio; stainless – surgical grade – steel; oil-hardened and tempered



95 06 230
1000 V

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities Ø Inch Ø mm	Cutting capacities mm²	AWG	⚖ lbs
95 06 230		9 1/4 230	1000 V	polished	plastic insulated, VDE-tested	5/8 16	50	Solid - 1/0 Stranded - 2/0	0.60

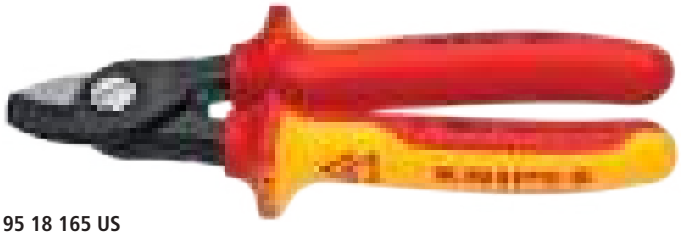
Cable Shears
IEC 60900 DIN EN 60900

95 1

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

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

- for cutting copper and aluminum cables, single and multi-stranded wires
- 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
- pinch guard prevents operators´ fingers being pinched
- adjustable bolted joint, self-locking
- high-grade special tool steel; forged, oil-hardened



95 18 165 US
1000 V ASTM

Product Number	Packaging	↔ Inch mm		Tool	Handles	Cutting capacities Ø Inch Ø mm	Cutting capacities mm²	AWG	lbs
95 18 165 US	X	6 1/2 165	1000 V ASTM	burnished	insulated, multi-component grips, ASTM-tested	19/32 15	50	1/0	0.58

Cable Shears
with twin cutting edge
IEC 60900 DIN EN 60900

95 1

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 conductors are cut in the rear area.

- for cutting copper and aluminum 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
- 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 25/32" (20 mm) dia. can be cut in one-hand operation
- less effort required due to favorable lever ratio and special blade geometry
- pinch guard prevents operators´ fingers being pinched
- adjustable bolted joint, self-locking
- high-grade special tool steel; forged, oil-hardened

95 18 200 SBA
1000 V ASTM PATENTED

Product Number	Packaging	↔ Inch mm		Tool	Handles	Cutting capacities Ø Inch Ø mm	Cutting capacities mm²	AWG	lbs
95 18 200 SBA	X	8 200	1000 V ASTM	burnished	insulated, multi-component grips, ASTM-tested	25/32 20	70	2/0	0.75

Cable Shears
IEC 60900 DIN EN 60900

95 1

Large cutting capacity: max. 1 1/16" (27 mm) dia./150 m²

Short design, length only 20" (500 mm)
Lightweight, high leverage

> insulated and tested according to IEC 60900 and ASTM F1505
> for cutting copper and aluminum cables, single and multi-stranded wires
> 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 favorable lever ratio and optimized cutting edge geometry
> pinch guard prevents operators´ fingers being pinched
> adjustable bolted joint
> cutter head: vanadium electric steel; forged, oil-hardened
> handle shank: aluminum tube, high-strength

95 17 500
1000 V

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities Ø Inch Ø mm	mm²	AWG	lbs
95 17 500		20 500	1000 V	burnished	plastic dipped insulated, VDE-tested	1 1/16 27	150	5/0	3.26

Cable Shears
IEC 60900 DIN EN 60900

95 2

> for cutting copper and aluminum cables, single and multi-stranded wires
> not suitable for steel wire and wire ropes
> precision ground, hardened blades
> clean and smooth cut without crushing and deformation
> favorable lever ratio due to toggle lever
> pinch guard prevents operators´ fingers being pinched
> adjustable bolted joint
> bolted cutter head, replaceable
> blade head: high-grade chrome vanadium electric steel; forged, oil-hardened
> handle: steel tube

95 27 600
1000 V

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities Ø Inch Ø mm	mm²	AWG	lbs
95 27 600		23 1/2 600	1000 V	polished	plastic dipped insulated, VDE-tested	1 1/16 27	150	5/0	5.08
95 29 600	Spare cutter head for 95 27 600								

Cable Cutters

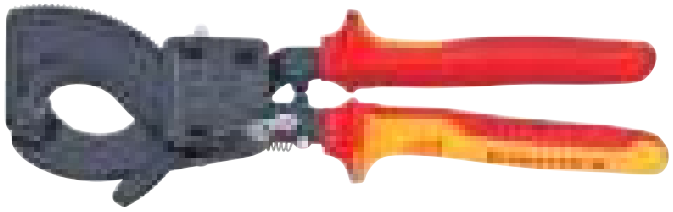
with ratchet action

IEC 60900 DIN EN 60900

95
3

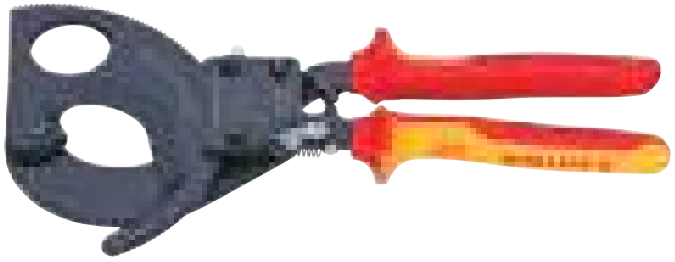
- for cutting copper and aluminum cables, single and multi-stranded wires
- not suitable for steel wire and wire ropes
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- one-hand operation using ratchet principle
- minimal handforce required due to very high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

Ratchet principle and two-stage ratchet drive for easier cutting



95 36 250 SBA

1000 V



95 36 280 SBA

1000 V

Product Number	Packaging	↔ Inch mm		Tool	Handles	Cutting capacities Ø Inch Ø mm	mm²	MCM	lbs
95 36 250 SBA	X	10 250	1000 V	black lacquered	insulated, multi-component grips, VDE-tested	1 1/4 32	240	500	1.24
95 36 280 SBA	X	11 280	1000 V	black lacquered	insulated, multi-component grips, VDE-tested	2 3/64 52	380	750	1.64

Cable Cutter

ratchet principle, 3-stage
IEC 60900 DIN EN 60900

95
3

Sturdy. Easy to use.
Innovative ratchet-drive.

> insulated and tested according to IEC 60900 and ASTM F1505
> easy handling due to lightweight (1.82 lbs) and compact construction 12 1/2" (320 mm) length – usable in confined areas
> cuts through copper and aluminum cables with diameters of up to 2 23/64" (60 mm) in one-hand and two-handed operations
> hardened cutting edges, precisely ground, cut smoothly and neatly without crushing
> for cutting copper and aluminum single conductors as well as multi-stranded cables (not suitable for steel wire and wire ropes)
> innovative 3-stage ratchet-drive with high leverage for easy cutting in one-hand and two-handed operation
> fixed handle with support area for laying down the pliers when cutting
> high-grade special tool steel; forged, oil-hardened

95 36 320

1000 V

Product Number	Packaging	↔ Inch mm		Tool	Handles	Cutting capacities Ø Inch Ø mm	mm²	MCM	lbs
95 36 320		12 1/2 320	1000 V	black atramentized	insulated, multi-component grips, VDE-tested	2 3/64 60	600	1200	1.83

95 39 320 01	Pivot cutter repair kit for 95 36 320
95 39 320 02	Fixed cutter repair kit for 95 36 320

Cable Cutters for Wire Rope and ACSR

IEC 60900 DIN EN 60900

95 7

- for ACSR, wire ropes, steel rods, copper and aluminum cables
- suitable for cutting overhead line cables with strain relief wire
- angular cutting blades prevent fanning out
- optimum transmission ratio for high cutting performance
- bolted cutter head, replaceable
- lightweight
- cutter head: high-grade special tool steel, multi stage oil-hardened
- handles: aluminum, high-strength

95 77 600

1000 V

Product Number	Packaging	↔ Inch mm		Head	Handles	Cutting capacities mm²	Ø Inch Ø mm	Ø Inch Ø mm	AWG	lbs
95 77 600		23 5/8 600	1000 V	polished	plastic dipped insulated	150	35/64 14	23/64 9	5/0	5.02
95 79 600	Spare cutter head for 95 77 600									

Crimping Pliers

for wire ferrules (end sleeves)

IEC 60900 DIN EN 60900

97 68

- for crimping wire end ferrules according to DIN 46228 parts 1 and 4 in an area of application from 24 - 14 AWG (0.25 up to 2.5 mm²)
- crimping in marked trapezoidal dies for tight connections between the sleeve and the conductor
- vanadium electric steel; forged, oil-hardened

97 68 145 A

1000 V

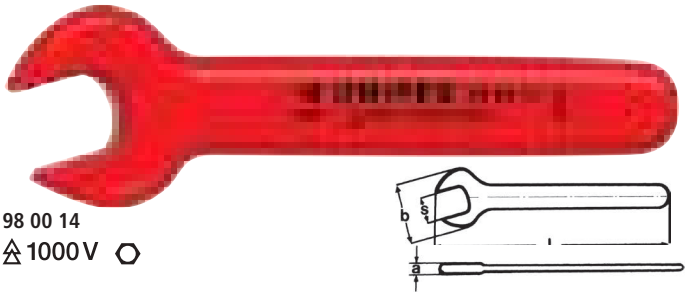
Product Number	Packaging	↔ Inch mm			Head	Handles	Capacity mm²	AWG	Number of crimping positions	lbs
97 68 145 A		5 3/4 145		1000 V	polished	insulated, multi-component grips, VDE-tested	0.25 - 2.5	24 - 14	4	0.41

Open End Wrenches

IEC 60900 DIN EN 60900

98
0

> jaw 15° angled
> chrome plated
> chrome vanadium steel; forged, oil-hardened



Metric Versions

Product Number	Packaging		Length l max. Inch mm	Width across flats S Inch mm	Head width b max. Inch mm	Head thickness a max. Inch mm	lbs
98 00 07		1000 V	4 1/8 105.0	7.0	25/32 20.0	5/32 4.0	0.06
98 00 08			4 1/8 105.0	8.0	55/64 22.0	5/32 4.0	0.07
98 00 09			4 1/8 105.0	9.0	15/16 24.0	5/32 4.0	0.08
98 00 10			4 1/8 105.0	10.0	1 1/16 27.0	13/64 5.0	0.11
98 00 11			4 3/4 120.0	11.0	1 3/16 30.0	7/32 5.5	0.12
98 00 12			5 125.0	12.0	1 1/4 32.0	7/32 5.5	0.15
98 00 13			5 1/8 130.0	13.0	1 11/32 34.0	1/4 6.5	0.15
98 00 14			5 1/4 135.0	14.0	1 3/8 35.0	1/4 6.5	0.14
98 00 15			5 3/4 145.0	15.0	1 29/64 37.0	9/32 7.0	0.20
98 00 16			6 7/64 155.0	16.0	1 1/2 38.0	9/32 7.0	0.25
98 00 17			6 7/64 155.0	17.0	1 21/32 42.0	5/16 8.0	0.26
98 00 18			6 1/4 160.0	18.0	1 3/4 44.0	5/16 8.0	0.33
98 00 19			6 1/2 165.0	19.0	1 27/32 47.0	23/64 9.0	0.31
98 00 22			7 1/2 190.0	22.0	2 3/64 52.0	23/64 9.0	0.48
98 00 24			8 1/4 210.0	24.0	2 13/64 56.0	23/64 9.0	0.54
98 00 27			8 1/2 215.0	27.0	2 31/64 63.0	23/64 9.0	0.70

Imperial Versions

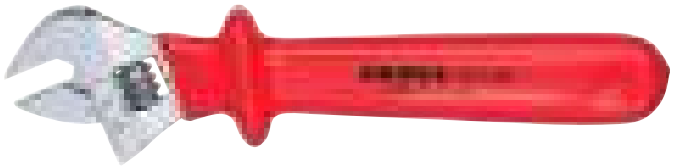
Product Number	Packaging		Length l max. Inch mm	Width across flats S Inch mm	Head width b max. Inch mm	Head thickness a max. Inch mm	lbs
98 00 3/4"		1000 V	7 1/2 190.5	3/4	1 27/32 47.0	23/64 9.0	0.34
98 00 3/8"			4 1/4 108.0	3/8	1 1/16 27.0	13/64 5.0	0.09
98 00 5/16"			4 1/4 108.0	5/16	55/64 22.0	5/32 4.0	0.09
98 00 5/8"			6 1/2 165.1	5/8	1 1/2 38.0	9/32 7.0	0.26
98 00 7/16"			4 3/4 120.7	7/16	1 3/16 30.0	7/32 5.5	0.11
98 00 9/16"			6 152.4	9/16	1 3/8 35.0	1/4 6.5	0.21
98 00 1/2"			5 1/2 139.7	1/2	1 11/32 34.0	1/4 6.5	0.18
98 00 1/4"			4 1/4 108.0	1/4	25/32 20.0	5/32 4.0	0.08

Adjustable Wrench

IEC 60900 DIN EN 60900

98
07

> parallel smooth gripping jaws
> adjustable gripping width
> with scaling for presetting the width apart from the workpiece
> chrome vanadium steel



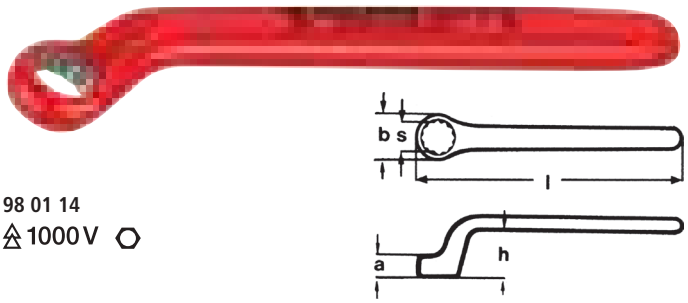
98 07 250
1000 V 22°

Product Number	Packaging	↔ Inch mm		Tool	Handle	Inch mm	Jaw width Inch mm	Head width Inch mm	Width Inch mm	Depth Inch mm	lbs
98 07 250		10 1/4 260	1000 V 22°	chrome plated	plastic dipped insulated, VDE-tested	1 3/16 30	5/16 8.0	5/8 16.0	2 7/8 73.0	25/32 20.0	1.2

Box Wrenches
IEC 60900 DIN EN 60900

98 0

> cranked
> chrome plated
> chrome vanadium steel; forged, oil-hardened



98 01 14
1000 V

Metric Versions

Product Number	Packaging		Length l max. Inch mm	Width across flats S Inch mm	Head width b max. Inch mm	Head thickness a max. Inch mm	Depth of crank h max. Inch mm	lbs
98 01 07			6 150.0	7.0	15/32 12.0	9/32 7.0	45/64 18.0	0.13
98 01 08			6 7/64 155.0	8.0	35/64 14.0	9/32 7.0	3/4 19.0	0.13
98 01 09			6 1/2 165.0	9.0	39/64 15.5	5/16 8.0	3/4 19.0	0.17
98 01 10			6 1/4 160.0	10.0	43/64 17.0	23/64 9.0	25/32 20.0	0.17
98 01 11			6 1/2 165.0	11.0	47/64 18.5	25/64 10.0	53/64 21.0	0.19
98 01 12			7 1/4 185.0	12.0	47/64 18.5	25/64 10.0	29/32 23.0	0.24
98 01 13			7 1/4 185.0	13.0	53/64 21.5	7/16 11.0	29/32 23.0	0.25
98 01 14		1000 V	7 1/2 195.0	14.0	29/32 23.0	15/32 12.0	15/16 24.0	0.30
98 01 15			8 200.0	15.0	15/16 24.0	15/32 12.0	15/16 24.0	0.34
98 01 16			8 200.0	16.0	1 1/32 26.0	15/32 12.0	1 1/32 26.0	0.38
98 01 17			8 205.0	17.0	1 1/16 27.0	1/2 13.0	1 1/32 26.0	0.38
98 01 18			8 1/4 210.0	18.0	1 9/64 29.0	1/2 13.0	1 7/64 28.0	0.53
98 01 19			8 3/4 225.0	19.0	1 3/16 30.0	35/64 14.0	1 7/64 28.0	0.54
98 01 22			8 3/4 225.0	22.0	1 3/8 35.0	19/32 15.0	1 3/16 30.0	0.61

Imperial Versions

Product Number	Packaging		Length l max. Inch mm	Width across flats S Inch mm	Head width b max. Inch mm	Head thickness a max. Inch mm	Depth of crank h max. Inch mm	lbs
98 01 1 1/16"			10 7/16 265.0	1 1/16	1 1/2 38.0	5/8 16.0	1 3/16 30.0	1.21
98 01 11/16"			8 205.0	11/16	1 1/16 27.0	1/2 13.0	1 1/32 26.0	0.41
98 01 3/4"			8 3/4 225.0	3/4	1 3/16 30.0	35/64 14.0	1 7/64 28.0	0.55
98 01 5/16"		1000 V	6 7/64 155.0	5/16	35/64 14.0	9/32 7.0	3/4 19.0	0.15
98 01 5/8"			8 200.0	5/8	1 1/32 26.0	15/32 12.0	1 1/32 26.0	0.45
98 01 7/8"			8 3/4 225.0	7/8	1 3/8 35.0	19/32 15.0	1 3/16 30.0	0.70
98 01 9/16"			7 1/2 195.0	9/16	29/32 23.0	15/32 12.0	15/16 24.0	0.36

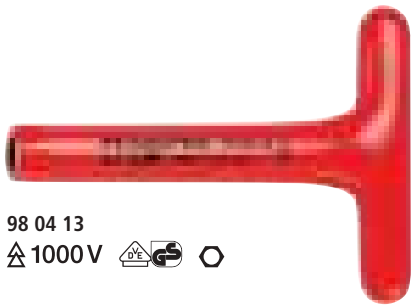
Nut Drivers

with T-Handle

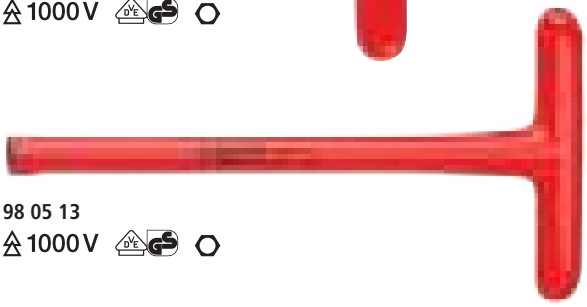
IEC 60900 DIN EN 60900

98
0

> special tool steel, oil-hardened



98 04 13
1000 V



98 05 13
1000 V

Product Number	Packaging	↔ Inch mm		Width across flats S mm	Handle length Inch mm	Head dia. Inch mm	⚖ lbs
98 04 10		8 200		10.0	6 7/64 155	3/4 19.5	0.80
98 04 13		8 200		13.0	6 7/64 155	59/64 23.5	0.81
98 04 17		8 200	1000 V	17.0	6 7/64 155	1 1/8 28.5	1.06
98 04 19		8 200		19.0	6 7/64 155	1 7/32 31.0	1.31
98 04 22		8 200		22.0	6 7/64 155	1 23/64 34.5	1.42
98 05 13		12 300		13.0	6 7/64 155	59/64 23.5	0.94
98 05 17		12 300	1000 V	17.0	6 7/64 155	1 1/8 28.5	1.24
98 05 19		12 300		19.0	6 7/64 155	1 7/32 31.0	1.56

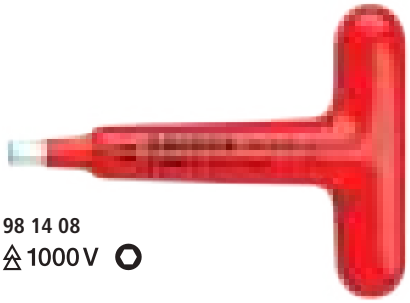
Screwdrivers for Hexagon Socket Screws

with T-Handle

IEC 60900 DIN EN 60900

98
1

> special tool steel, oil-hardened



98 14 08
1000 V

98 15 08
1000 V

S

Product Number	Packaging	↔ Inch mm		Width across flats S mm	Length of non-insulated blade ± 2 Inch mm	T-Handle width Inch mm	⚖ lbs
98 14 05		4 3/4 120		5.0	23/64 9.0	3 1/2 90.0	0.49
98 14 06		4 3/4 120	1000 V	6.0	25/64 10.0	3 1/2 90.0	0.46
98 14 08		4 3/4 120		8.0	7/16 11.0	3 1/2 90.0	0.63
98 15 05		10 250		5.0	23/64 9.0	3 1/2 90.0	0.80
98 15 06		10 250	1000 V	6.0	25/64 10.0	3 1/2 90.0	1.00
98 15 08		10 250		8.0	7/16 11.0	3 1/2 90.0	0.79

T-handle

with driving square 3/8" or 1/2"

IEC 60900 DIN EN 60900

98
40

> for use with sockets
> for quick, easy and secure locking of attached sockets
> chrome plated
> high-grade special tool steel; forged, oil-hardened

98 40
1000 V 1/2"

Product Number	Packaging	↔ Inch mm		Handle length Inch mm	Square drive Inch	⚖ lbs
98 30		8 200	1000 V 3/8	6 1/2 165	3/8	0.91
98 40		8 200	1000 V 1/2	6 1/2 165	1/2	1.34

Reversible Ratchets

with driving square 3/8" or 1/2"
IEC 60900 DIN EN 60900

98

> for use with sockets
> reversible for clockwise and counterclockwise directions
> extremely smooth action
> for quick, easy and secure locking of attached sockets
> chrome vanadium steel; forged

98 31
1000 V 3/8"

Product Number	Packaging	↔ Inch mm		Square drive Inch	⚖ lbs
98 31		7 1/2 190	1000 V 3/8"	3/8	0.71
98 41		10 7/16 265	1000 V 1/2"	1/2	1.38

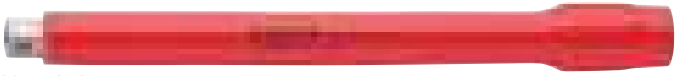
Extension Bars

with internal and external driving square 3/8" or 1/2"
IEC 60900 DIN EN 60900

98

> for use with sockets
> with internal and external square
> for quick, easy and secure locking of attached sockets
> chrome vanadium steel, forged

98 35 125
1000 V 3/8" 3/8



98 45 250
1000 V 1/2" 1/2

Product Number	Packaging	↔ Inch mm		Square drive Inch	⚖ lbs
98 35 125		5 125	1000 V 3/8" 3/8	3/8	0.33
98 35 250		10 250		3/8	0.62
98 45 125		5 125	1000 V 1/2" 1/2	1/2	0.57
98 45 250		10 250		1/2	1.08

Hexagon Sockets
for hexagonal screws

for internal square 3/8" or 1/2"

IEC 60900 DIN EN 60900

98

> for metric hexagonal head screws
> chrome plated
> chrome vanadium steel

98 37 17

1000 V

98 47 17

1000 V

Product Number	Packaging	↔ Inch mm		Width across flats S Inch mm	dia. of effective tool side d max. Inch mm	Square drive Inch	⚖ lbs
98 37 10		1 21/32 42	1000 V	25/64 10.0	47/64 18.7	3/8	0.07
98 37 11		1 21/32 43		7/16 11.0	25/32 20.0	3/8	0.08
98 37 12		1 3/4 44		15/32 12.0	53/64 21.2	3/8	0.09
98 37 13		1 49/64 45		1/2 13.0	57/64 22.5	3/8	0.09
98 37 14		1 13/16 46		35/64 14.0	15/16 23.7	3/8	0.10
98 37 16		1 13/16 46		5/8 16.0	1 1/32 26.2	3/8	0.12
98 37 17		1 13/16 46		43/64 17.0	1 5/64 27.5	3/8	0.12
98 37 19		1 59/64 49		3/4 19.0	1 3/16 30.0	3/8	0.14
98 47 10		2 1/8 54	1000 V	25/64 10.0	3/4 19.5	1/2	0.14
98 47 11		2 1/8 54		7/16 11.0	13/16 20.7	1/2	0.15
98 47 12		2 11/64 55		15/32 12.0	29/32 23.0	1/2	0.14
98 47 13		2 11/64 55		1/2 13.0	29/32 23.2	1/2	0.15
98 47 14		2 11/64 55		35/64 14.0	31/32 24.5	1/2	0.16
98 47 16		2 11/64 55		5/8 16.0	1 1/16 26.9	1/2	0.19
98 47 17		2 11/64 55		43/64 17.0	1 7/64 28.2	1/2	0.18
98 47 18		2 11/64 55		45/64 18.0	1 9/64 29.0	1/2	0.19
98 47 19		2 1/8 54		3/4 19.0	1 13/64 30.7	1/2	0.22
98 47 22		2 9/32 58		55/64 22.0	1 23/64 34.5	1/2	0.28
98 47 24		2 13/32 61		15/16 24.0	1 29/64 37.0	1/2	0.34
98 47 27		2 31/64 63		1 1/16 27.0	1 19/32 41.0	1/2	0.42

Sockets
for internal square 3/8" or 1/2"
IEC 60900 DIN EN 60900

98

> 12 points of contact
> for imperial hexagonal head screws
> chrome plated
> chrome vanadium steel

98 47 1/2"
1000 V

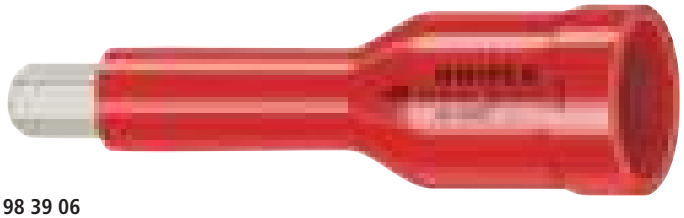
Product Number	Packaging	Inch mm		Width across flats S Inch	dia. of effective tool side d max. Inch	Square drive Inch	lbs
98 37 1/2"		1 49/64 45		1/2	57/64	3/8	0.09
98 37 3/4"		1 59/64 49		3/4	1 3/16	3/8	0.14
98 37 3/8"		1 21/32 42		3/8	47/64	3/8	0.07
98 37 5/16"		1 21/32 42	1000 V	5/16	5/8	3/8	0.07
98 37 5/8"		1 13/16 46		5/8	1 1/32	3/8	0.11
98 37 7/16"		1 11/16 43		7/16	25/32	3/8	0.08
98 37 9/16"		1 27/32 47		9/16	15/16	3/8	0.09
98 47 1"		2 13/32 61		1	1 19/32	1/2	0.38
98 47 1/2"		2 11/64 55		1/2	29/32	1/2	0.15
98 47 11/16"		2 11/64 55		11/16	1 7/64	1/2	0.18
98 47 3/4"		2 11/64 55	1000 V	3/4	1 13/64	1/2	0.19
98 47 5/8"		2 11/64 55		5/8	1 1/16	1/2	0.19
98 47 7/8"		2 9/32 58		7/8	1 23/64	1/2	0.26
98 47 9/16"		2 11/64 55		9/16	31/32	1/2	0.16

Hexagon Sockets
for hexagon socket screws

for internal square 3/8" or 1/2"
DIN 7422 IEC 60900 DIN EN 60900

98

> for metric internal hexagonal socket screws
> chrome plated
> special tool steel



98 39 06
1000 V

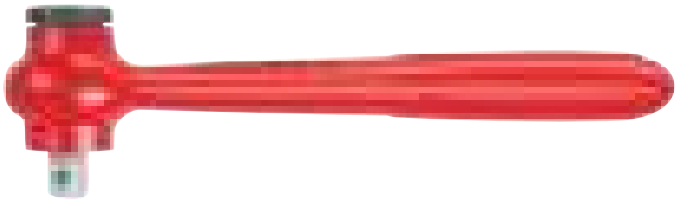
Product Number	Packaging	↔ Inch mm		Width across flats S mm	Length of non-insulated blade ± 2 Inch mm	Square drive Inch	lbs
98 39 05		3 75	1000 V	5.0	23/64 9	3/8	0.12
98 39 06		3 75	1000 V	6.0	25/64 10	3/8	0.15
98 39 08		3 75	1000 V	8.0	7/16 11	3/8	0.20
98 49 05		3 75	1000 V	5.0	23/64 9	1/2	0.16
98 49 06		3 75	1000 V	6.0	25/64 10	1/2	0.18
98 49 08		3 75	1000 V	8.0	7/16 11	1/2	0.21

Reversible Ratchet

with driving square 1/2"
ISO 3315 IEC 60900 DIN EN 60900

98
4

> reversible for clockwise and counterclockwise directions
> very reliable coupling of sockets with bolt-activated locking system
> chrome vanadium steel



98 42
1000 V

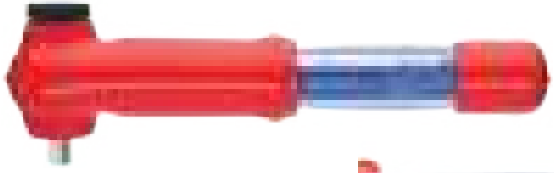
Product Number	Packaging	↔ Inch mm		Square drive Inch	lbs
98 42		10 1/2 265	1000 V	1/2	1.27

Torque Wrench

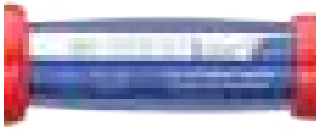
with driving square, reversible
IEC 60900 DIN EN 60900 DIN EN ISO 6789

98

> reversible for tightening of left handed threads
> lockable torque adjustment
> very reliable coupling of sockets with bolt-activated locking system
> transparent insulated scale range
> calibration certificate included
> chrome vanadium steel



98 43 50
1000 V



Transparent insulated scale range

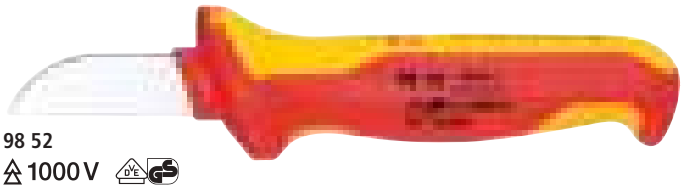
Product Number	Packaging	↔ Inch mm		Range of application	Square drive Inch	lbs
98 33 25		11 27/64 290	1000 V	5 - 25 Nm	3/8	2.17
98 33 50		15 385	1000 V	5 - 50 Nm	3/8	2.71
98 43 50		15 385	1000 V	5 - 50 Nm	1/2	2.71

Cable Knives
IEC 60900 DIN EN 60900

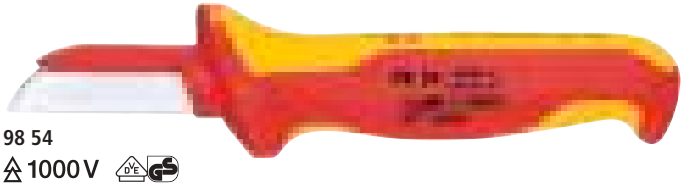
98
5

> ergonomically improved handle shape with comfortable slip guard
> secure grip due 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 is plastic coated to avoid short circuit



98 52
1000 V



98 54
1000 V

Product Number	Packaging	↔ Inch mm		Handle	Blade length Inch mm	⚖ lbs
98 52		7 1/2 190	1000 V	insulated multi-component handle, VDE-tested	1 31/32 50	0.18
98 54	X	7 1/2 190	1000 V	insulated multi-component handle, VDE-tested	1 31/32 50	0.18

Dismantling Knives
IEC 60900 DIN EN 60900

98
5

> ergonomically improved handle shape with comfortable slip guard
> secure grip due 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, air-hardened

98 53 03
1000 V

98 53 13
1000 V

98 55
1000 V

Guide shoe 98 55

Product Number	Packaging	↔ Inch mm		Handle	Blade length Inch mm	Radius Inch mm	⚖ lbs
98 53 03		6 3/4 170	1000 V	insulated multi-component handle, VDE-tested	1 7/64 28	9/32 7	0.14
98 53 13		7 1/2 190	1000 V	insulated multi-component handle, VDE-tested	1 31/32 50	1 37/64 40	0.14
98 55	X	7 1/4 180	1000 V	insulated multi-component handle, VDE-tested	1 1/2 38	59/64 23.5	0.15

Cable Knife
with replaceable blade
IEC 60900 DIN EN 60900

98 5

> straight blade with special grinding; replaceable
> with hinged blade guard, integrated in the handle, captive
> back of the blade is plastic coated to avoid short circuit
> ergonomically shaped safety handle
> blade: surgical steel, stainless, air-hardened

98 56
1000 V

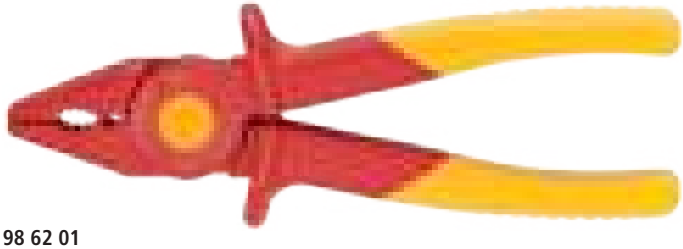
Product Number	Packaging	↔ Inch mm		Blade length Inch mm	lbs
98 56		7 1/2 190	1000 V	1 31/32 50	0.14

98 56 09	Spare Blade for 98 56

Flat Nose Pliers of plastic
insulating
IEC 60900 DIN EN 60900 ASTM F1505

98 6

> full insulation reduces risk of short circuit
> for meter assembly and meter blocking
> class C; range of use up to -40°C/-40°F
> plastic material, fiberglass-reinforced
> handles with soft plastic zone for a better grip



98 62 01
1000 V

Product Number	Packaging	↔ Inch mm		lbs
98 62 01		7 1/4 180	1000 V	0.26

KNIPEX presents high-quality and sturdy plastic pliers featuring protection against bridging for working on live parts up to AC 1000V and DC 1500V.

These solid plastic pliers do not act on magnetic fields and are fully spark free. They are also excellent for use in chemically aggressive environments.

Snipe Nose Pliers of plastic
insulating
IEC 60900 DIN EN 60900 ASTM F1505

98 6

> full insulation reduces risk of short circuit
> class C; range of use up to -40°C/-40°F
> plastic material, fiberglass-reinforced
> handles with soft plastic zone for a better grip

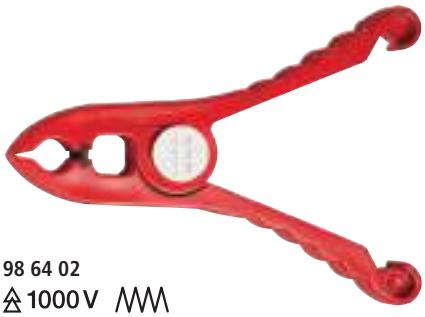
98 62 02
1000 V

Product Number	Packaging	↔ Inch mm		lbs
98 62 02		8 3/4 220	1000 V	0.32

Insulating Plastic Clamp
DIN VDE 0680-1

98 6

> for holding insulating mats in place
> with integrated spring
> full insulation reduces risk of short circuit
> solid plastic, fiberglass-reinforced



98 64 02
1000 V

Product Number	Packaging	↔ Inch mm		Clamping capacity Inch mm	lbs
98 64 02		6 150	1000 V	19/32 15	0.13

Plastic Slip-On Caps
conical
DIN VDE 0680-1

98 6

> to cover bare live cable ends max. 25/64" (10 mm) dia.
> plastic

98 65 01
1000 V

Product Number	Packaging	↔ Inch mm		Conductor key	lbs
98 65 01		3 5/32 80	1000 V	1	0.02
98 65 02		3 5/32 80		2	0.02
98 65 03		3 5/32 80		3	0.02

Self-Clamping Slip-On Caps
DIN VDE 0680-1

98 6

> to cover bare live cable ends
> plastic

98 65 30
1000 V

Product Number	Packaging	↔ Inch mm		Inside dia. Inch mm	lbs
98 65 10		3 5/32 80	1000 V	25/64 10	0.02
98 65 20		3 15/16 100		25/32 20	0.07
98 65 30		4 1/4 110		1 3/16 30	0.12

Insulating Mats
from rubber
DIN EN / IEC 61112

98
6

> for added protection when working live or close to live parts

98 67 05
1000 V

Product Number	Packaging		Dimensions Inch mm	Thickness Inch mm	lbs
98 67 05		1000 V	20 x 20 500 x 500	3/64 1.0	0.66
98 67 10			39 3/8 x 39 3/8 1000 x 1000	3/64 1.0	2.65

PUK® Junior Hacksaw
IEC 60900 DIN EN 60900

98
90

> saw blade for metal and wood with 25 teeth per inch, exchangeable

98 90
1000 V

Product Number	Packaging	↔ Inch mm		Saw blade length Inch mm	lbs
98 90		9 1/2 240	1000 V	6 150	0.41

Compact Tool Case

17 parts

with insulated tools for working on electrical installations

IEC 60900 DIN EN 60900

98
6

> shock-resistant plastic case
> containing a range of insulated KNIPEX tools for work on electrical installations
> foam inserts with recesses for the tools
> fixable partition wall
> ext. dimensions (W x H x D): 14 11/64" x 4 21/64 x 12 13/64" (360 x 110 x 310 mm)

98 99 11
1000 V

Product Number	Packaging			Set contents	Units	lbs
98 99 11	X		Compact Tool Case 17 parts		-	8.73
		1000 V	03 07 200	Combination Pliers	1	-
		1000 V	70 07 160	Diagonal Cutter	1	-
			98 20 35		1	-
		1000 V	98 20 40	Screwdrivers for slotted screws	1	-
			98 20 55		1	-
		1000 V	98 24 00	Screwdriver for cross recessed screws, Phillips®	1	-
		1000 V	98 42	Reversible Ratchet, with driving square 1/2"	1	-
		1000 V	98 45 125	Extension Bar, with internal/external square 1/2"	1	-
			98 45 250		1	-
			98 47 10		1	-
			98 47 11		1	-
			98 47 12		1	-
		1000 V	98 47 13	Hexagon Socket for hexagonal screws, with internal square 1/2"	1	-
			98 47 14		1	-
			98 47 17		1	-
			98 47 19		1	-
		1000 V	98 52	Cable Knife	1	-

Safety Compact Tool Case

10 parts

IEC 60900 DIN EN 60900

- shock-resistant plastic case
- foam insert with precise recesses for holding the pliers
- equipped with a range of custom insulated KNIPEX tools for work on electrical systems
- all tools 100% tested and meet ASTM F1505 and IEC 60900 requirements
- ext. dimensions (W x H x D): 14 31/32 x 3 11/32 x 10 15/64" (380 x 85 x 260 mm)
- int. dimensions (W x H x D): 13 3/16 x 2 3/4 x 93/64" (335 x 70 x 230 mm)

98 99 11 S3
1000 V

98 99 11 S4
1000 V

98 99 11 S5
1000 V

98 99 11 S6
1000 V

Product Number	Packaging			Set contents	Units	lbs
98 99 11 S3	X	-	Safety compact tool case with insulated tools (3/8") for working on electrical systems	-	-	3.64
		1000 V	98 31	Reversible Ratchet, with external square 3/8"	1	-
		1000 V	98 35 125	Extension Bar, with internal/external square 3/8"	1	-
			98 35 250		1	-
		1000 V	98 37 1/2"	12-Point Socket, with internal square 3/8"	1	-
			98 37 3/4"		1	-
			98 37 3/8"		1	-
			98 37 5/16"		1	-
			98 37 5/8"		1	-
			98 37 7/16"		1	-
			98 37 9/16"		1	-
98 99 11 S4	X	-	Safety compact tool case with insulated tools (3/8") for working on electrical systems	-	-	3.64
		1000 V	98 31	Reversible Ratchet, with external square 3/8"	1	-
		1000 V	98 35 125	Extension Bar, with internal/external square 3/8"	1	-
			98 35 250		1	-
		1000 V	98 37 10	Hexagon socket for hexagonal screws, with internal square 3/8"	1	-
			98 37 11		1	-
			98 37 12		1	-
			98 37 13		1	-
			98 37 14		1	-
			98 37 17		1	-
			98 37 19		1	-
98 99 11 S5	X	-	Safety compact tool case with insulated tools (1/2") for working on electrical systems	-	-	5.62
		1000 V	98 41	Reversible Ratchet, with driving square 1/2"	1	-
		1000 V	98 45 125	Extension Bar, with internal/external square 1/2"	1	-
			98 45 250		1	-
		1000 V	98 47 1"	12-Point Socket, with internal square 1/2"	1	-
			98 47 1/2"		1	-
			98 47 11/16"		1	-
			98 47 3/4"		1	-
			98 47 5/8"		1	-
			98 47 7/8"		1	-
			98 47 9/16"		1	-
98 99 11 S6	X	-	Safety compact tool case with insulated tools (1/2") for working on electrical systems	-	-	5.62
		1000 V	98 41	Reversible Ratchet, with driving square 1/2"	1	-
		1000 V	98 45 125	Extension Bar, with internal/external square 1/2"	1	-
			98 45 250		1	-
		1000 V	98 47 13	Hexagon socket for hexagonal screws, with internal square 1/2"	1	-
			98 47 14		1	-
			98 47 17		1	-
			98 47 19		1	-
			98 47 22		1	-
			98 47 24		1	-
			98 47 27		1	-

Standard Tool Case

26 parts

with insulated tools for working on electrical installations

IEC 60900 DIN EN 60900

> containing a range of insulated KNIPEX tools for work on electrical installations
> shock-resistant plastic case
> foam inserts with recesses for the tools
> fixable partition wall
> ext. dimensions (W x H x D):
17 21/64 x 4 1/8 x 15 5/32" (440 x 105 x 385 mm)

98 99 12
1000 V

Product Number	Packaging			Set contents	Units	lbs
98 99 12	X	-	Standard Tool Case 26 parts		-	12.20
		1000 V	03 07 200	Combination Pliers	1	-
		1000 V	70 07 160	Diagonal Cutter	1	-
			98 00 10		1	-
			98 00 11		1	-
			98 00 12		1	-
		1000 V	98 00 13	Open End Wrench	1	-
			98 00 14		1	-
			98 00 17		1	-
			98 00 19		1	-
		1000 V	98 53 03	Dismantling Knife for round cables	1	-
			98 20 25		1	-
			98 20 35		1	-
		1000 V	98 20 40	Screwdrivers for slotted screws	1	-
			98 20 55		1	-
			98 24 00		1	-
		1000 V	98 24 01	Screwdriver for cross recessed screws, Phillips®	1	-
			98 24 02		1	-
		1000 V	98 40	T-Handle Drive, with driving square 1/2"	1	-
			98 47 10		1	-
			98 47 11		1	-
			98 47 12		1	-
		1000 V	98 47 13	Hexagon Socket for hexagonal screws, with internal square 1/2"	1	-
			98 47 14		1	-
			98 47 17		1	-
			98 47 19		1	-
		1000 V	98 52	Cable Knife	1	-

Tool Roll
15 parts
IEC 60900 DIN EN 60900

98 9

> tool roll made of hard-wearing polyester fabric
> with sturdy, adjustable snap-closure
> containing a range of insulated KNIPEX tools for work on electrical installations

Product Number	Packaging			Set contents	Units	lbs
98 99 13	X	-	Tool Roll 15 parts		-	5.41
		1000 V	03 07 200	Combination Pliers	1	-
		1000 V	11 07 160	Diagonal Cutter	1	-
		1000 V	26 17 200	Snipe Nose Side Cutting Pliers, (Stork Beak Pliers)	1	-
		1000 V	70 07 160	Diagonal Cutter	1	-
		1000 V	95 17 200	Cable Shears, with twin cutting edge	1	-
		1000 V	98 00 10	Open End Wrench	1	-
			98 00 13		1	-
			98 00 14		1	-
			98 00 17		1	-
			98 00 19		1	-
		1000 V	98 20 25	Screwdrivers for slotted screws	1	-
			98 20 40		1	-
			98 20 55		1	-
			98 20 65		1	-
		1000 V	98 52	Cable Knife	1	-

Safety Tool Rolls
8 parts

98 99

> plastic tool roll
> equipped with open end wrenches for work on electrical systems
> all tools 100% tested and meet ASTM F1505 and IEC 60900 requirements
> dimensions, rolled out (W x H x D): 16 9/64 x 63/64 x 11 13/32" (410 x 25 x 290 mm)
> dimensions, rolled up (W x H x D): 2 61/64 x 2 61/64 x 11 13/32" (75 x 75 x 290 mm)

Product Number	Packaging			Set contents	Units	lbs
98 99 13 S4		-	Safety Toll Roll 8 parts	-	-	1.71
		1000 V	98 00 1/4"	Open End Wrench	1	-
			98 00 5/16"		1	-
			98 00 3/8"		1	-
			98 00 7/16"		1	-
			98 00 1/2"		1	-
			98 00 9/16"		1	-
			98 00 5/8"		1	-
			98 00 3/4"		1	-
98 99 13 S5			Safety Toll Roll 8 parts		-	2.54
		1000 V	98 00 24	Open End Wrench	1	-
			98 00 22		1	-
			98 00 19		1	-
			98 00 17		1	-
			98 00 14		1	-
			98 00 13		1	-
			98 00 10		1	-
			98 00 08		1	-

98 99 14

> hard-wearing case made of ABS material, red; containing a range of KNIPEX tools for work on electrical installations, tested according to IEC 60900, as well as additional protective covers, clamps and gloves
> sturdy aluminum frame with D-shape rings for belt and fix, sturdy center board with multipurpose push-in facilities by elastic loops and 12 small pockets
> comfortable handle and mounting device for a "trolley" embedded in the bottom (available for ordering ref. 00 21 40 T)
> metal hinges
> 66 pounds (30 kg) maximum load
> can be opened on one or both sides; bottom tray and cover can be opened independently
> stands securely in any opening position due to lid-holders and hinge mechanisms on both sides, that register in a position of 45° and 90°
> 3-digit lock and 2 clamp-locks for fixation of the cover
> removable document compartment and removable tool board, with 13 push-in compartments on one side
> 2 tilting locks to fix the bottom
> base tray height 2 9/32" (58 mm), can be subdivided by flexible inserts; cover plate with 6 large push-in compartments, can be fixed by push-button
> ext. dimensions (W x H x D):
19 19/64 x 10 3/64 x 16 9/64" (490 x 220 x 410 mm)
int. dimensions (W x H x D):
17 33/64 x (4 1/8 + 4 1/8) 13 25/32" (445 x (105 + 105) x 350 mm)

00 21 40 T

> telescopic handle for rolling transport
> applicable for cases: 00 21 40 LE Tool Case "BIG Twin" and 98 99 14 Universal Tool Case
> height adjustable handle with catch
> integrated mechanism for fixation to the case, for rapid assembly and removal
> with 2 smooth running rolls
> dimensions: 60 x 245 x 400 (1,000) mm (extended)

98 99 14
1000 V

00 21 40 T

Product Number	Packaging			Set contents	Units	⚖ lbs
98 99 14	X	-	Universal Tool Case 46 parts	-	-	35.83
			70 07 160	Diagonal Cutter	1	-
		1000 V	88 07 250	Alligator® Water Pump Pliers	1	-
			98 00 10	Open End Wrenches	1	-
			98 00 13		1	-
			98 00 14		1	-
			98 00 17		1	-
			98 00 19		1	-
		1000 V	98 00 22		1	-
			98 01 10	Box Wrenches	1	-
			98 01 13		1	-
			98 01 14		1	-
			98 01 17		1	-
			98 01 19		1	-
			98 01 22		1	-
		1000 V	98 67 05	Insulating Mat, from rubber	3	-
		1000 V ½"	98 40	T-Handle Drive, with driving square 1/2"	1	-
			98 42	Reversible Ratchet, with driving square 1/2"	1	-
		1000 V ½"	98 45 125	Extension Bar, with internal/external square 1/2"	1	-
			98 45 250		1	-
			98 47 10	Hexagon socket for hexagonal screws, with internal square 1/2"	1	-
			98 47 11		1	-
			98 47 12		1	-
			98 47 13		1	-
		1000 V ½"	98 47 14		1	-
			98 47 17		1	-
			98 47 19		1	-
			98 47 22		1	-
			98 47 24		1	-
		1000 V	98 52	Cable Knife	1	-
			98 53 03	Dismantling Knife for round cables	1	-
		1000 V	98 64 02	Insulating Plastic Clamp, from plastic	6	-
		1000 V	98 65 40	Electricians' Gloves	1	-
98 99 14 LE			Universal Tool Case empty	-	-	290.5 8235
00 21 40 T			Trolley for rolling case transport	-	-	42.3 1200

9K 98 98 20 US

9K 98 98 21 US

9K 98 98 22 US

9K 98 98 25 US

9K 98 98 26 US

Product Number	Packaging			Set contents	Units	lbs
9K 98 98 20 US		1000 V	5 Pc Automotive Pliers /Screwdriver Tool Set-1,000V	-	-	2.90
			74 08 250 US	10" High Leverage Diagonal Cutters-1,000V Insulated	1	-
			88 08 250 US	10" Alligator® Pliers-1,000V Insulated	1	-
			9T 53704	MAXXPRO 1,000V Insulated 4" Slotted 5/32" Tip	1	-
			9T 53706	MAXXPRO 1,000V Insulated 6" Slotted 1/4" Tip	1	-
			9T 53712	MAXXPRO 1,000V Insulated 4" Phillips #2	1	-
9K 98 98 21 US		1000 V	5 Pc Pliers/Screwdriver Tool Set-1,000V Insulated		-	2.62
			74 08 200 US	8" High Leverage Diagonal Cutters-1,000V Insulated	1	-
			02 08 225 US	9" High Leverage Combination Pliers-1,000V Insulated	1	-
			9T 53705	MAXXPRO 1,000V Insulated 5" Slotted 7/32" Tip	1	-
			9T 53712	MAXXPRO 1,000V Insulated 4" Phillips #2	1	-
			9T 54812	MAXXPRO 1,000V Insulated 5" Square #2	1	-
9K 98 98 22 US		1000 V	5 Pc Pliers/Screwdriver Tool Set-1,000V Insulated	-	-	4.35
			74 08 250 US	10" High Leverage Diagonal Cutters-1,000V Insulated	1	-
			09 08 240 US	9-1/4" High Leverage Lineman New England Head-1,000V Insulated	1	-
			9T 53705	MAXXPRO 1,000V Insulated 5" Slotted 7/32" Tip	1	-
			9T 53712	MAXXPRO 1,000V Insulated 4" Phillips #2	1	-
			9T 54812	MAXXPRO 1,000V Insulated 5" Square #2	1	-
9K 98 98 25 US		1000 V	7 Pc Pliers/Screwdriver Tool Set-1,000V, Nylon Pouch	-	-	4.35
			74 08 200 US	8" High Leverage Diagonal Cutters-1,000V Insulated	1	-
			88 08 250 US	10" Alligator® Pliers-1,000V Insulated	1	-
			26 18 200 US	8" Long Nose Pliers w/ Cutter-1,000V Insulated	1	-
			02 08 225 US	9" High Leverage Combination Pliers-1,000V Insulated	1	-
			9T 53705	MAXXPRO 1,000V Insulated 5" Slotted 7/32" Tip	1	-
			9T 53712	MAXXPRO 1,000V Insulated 4" Phillips #2	1	-
			9T 54812	MAXXPRO 1,000V Insulated 5" Square #2	1	-
9K 98 98 26 US		1000 V	7 Pc Pliers/Screwdriver Tool Set-1,000V, Nylon Pouch	-	-	4.45
			09 08 240 US	9-1/4" High Leverage Lineman New England Head-1,000V Insulated	1	-
			26 18 200 US	8" Long Nose Pliers w/ Cutter-1,000V Insulated	1	-
			88 08 250 US	10" Alligator® Pliers-1,000V Insulated	1	-
			74 08 250 US	10" High Leverage Diagonal Cutters-1,000V Insulated	1	-
			9T 53705	MAXXPRO 1,000V Insulated 5" Slotted 7/32" Tip	1	-
			9T 53712	MAXXPRO 1,000V Insulated 4" Phillips #2	1	-
			9T 54812	MAXXPRO 1,000V Insulated 5" Square #2	1	-

9K 98 98 27 US

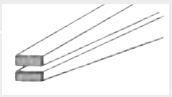
9K 98 98 30 US

9K 98 98 31 US

Product Number	Packaging			Set contents	Units	lbs
9K 98 98 27 US			7 Pc Pliers/Screwdriver Tool Set-1,000V, Nylon Pouch	-	-	4.33
			26 18 200 US	10" High Leverage Diagonal Cutters-1,000V Insulated	1	-
			74 08 200 US	10" Alligator® Pliers-1,000V Insulated	1	-
			02 08 225 US	MAXXPRO 1,000V Insulated 4" Slotted 5/32" Tip	1	-
		1000 V	88 08 250 US	MAXXPRO 1,000V Insulated 6" Slotted 1/4" Tip	1	-
			9T 53704	MAXXPRO 1,000V Insulated 4" Phillips #2	1	-
			9T 53706	MAXXPRO 1,000V Insulated 6" Slotted 1/4" Tip	1	-
			9T 53712	MAXXPRO 1,000V Insulated 4" Phillips #2	1	-
9K 98 98 30 US			10 Pc Pliers/Screwdriver Tool Set-1,000V, Hard Case	-	-	6.54
			02 08 225 US	9" High Leverage Combination Pliers-1,000V Insulated	1	-
			74 08 200 US	8" High Leverage Diagonal Cutters-1,000V Insulated	1	-
			95 18 165 US	6-1/2" Cable Shears-1,000V Insulated	1	-
			26 18 200 US	8" Long Nose Pliers w/ Cutter-1,000V Insulated	1	-
		1000 V	88 08 250 US	10" Alligator® Pliers-1,000V Insulated	1	-
			9T 53704	MAXXPRO 1,000V Insulated 4" Slotted 5/32" Tip	1	-
			9T 53706	MAXXPRO 1,000V Insulated 6" Slotted 1/4" Tip	1	-
			9T 53711	MAXXPRO 1,000V Insulated 3-1/4 Phillips #1	1	-
			9T 53712	MAXXPRO 1,000V Insulated 4" Phillips #2	1	-
			9T 54812	MAXXPRO 1,000V Insulated 5" Square #2	1	-
9K 98 98 31 US			10 Pc Pliers/Screwdriver Tool Set-1,000V, Hard Case	-	-	6.90
			02 08 225 US	10" High Leverage Diagonal Cutters-1,000V Insulated	1	-
			74 08 200 US	6-1/4" Cable Shears-1,000V Insulated	1	-
			95 18 165 US	9-1/4" High Leverage Lineman New England Head-1,000V Insulated	1	-
		1000 V	26 18 200 US	8" Long Nose Pliers w/ Cutter-1,000V Insulated	1	-
			88 08 250 US	10" Alligator® Pliers-1,000V Insulated	1	-
			9T 53704	MAXXPRO 1,000V Insulated 4" Slotted 5/32" Tip	1	-
			9T 53706	MAXXPRO 1,000V Insulated 6" Slotted 1/4" Tip	1	-
			9T 53711	MAXXPRO 1,000V Insulated 3-1/4 Phillips #1	1	-
			9T 53712	MAXXPRO 1,000V Insulated 4" Phillips #2	1	-
			9T 54812	MAXXPRO 1,000V Insulated 5" Square #2	1	-

BASIC SHAPES OF THE JAWS

flat jaws



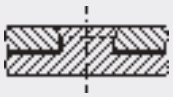
half-round jaws

round jaws

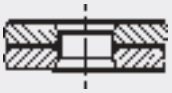
Cutting Pliers
for cutting or nipping (diagonal, centre and end cutters, carpenters' pincers, etc.)

Gripping Pliers
(flat-, long-nose and water pump pliers, etc.)

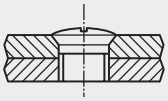
JOINT CONNECTIONS



Forged-in joint axle
The rivet is part of one handle (forged from one piece)
> high stability for highest strain
> long service life



Joint with inserted rivet
A proven, sturdy and precise rivet connection for all standard pliers.



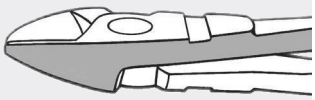
Bolted joint
For particularly demanding requirements in terms of precision and smooth operation, e.g. in circlip pliers and cable shears (even the finest multi-stranded conductors have to be cut cleanly).

Combined Pliers
for cutting and gripping (combination, stork beak and radio pliers, etc.)

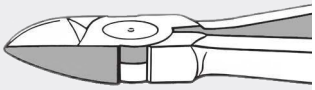
Special Pliers
for special applications, e.g. notching or punching different types of materials (sheet-metal nibbler, tile nibbling pincers, etc.)

TYPES OF JOINTS

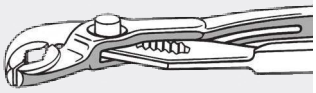
Lap joint
The two pliers halves lie on top of each other but are not milled out.

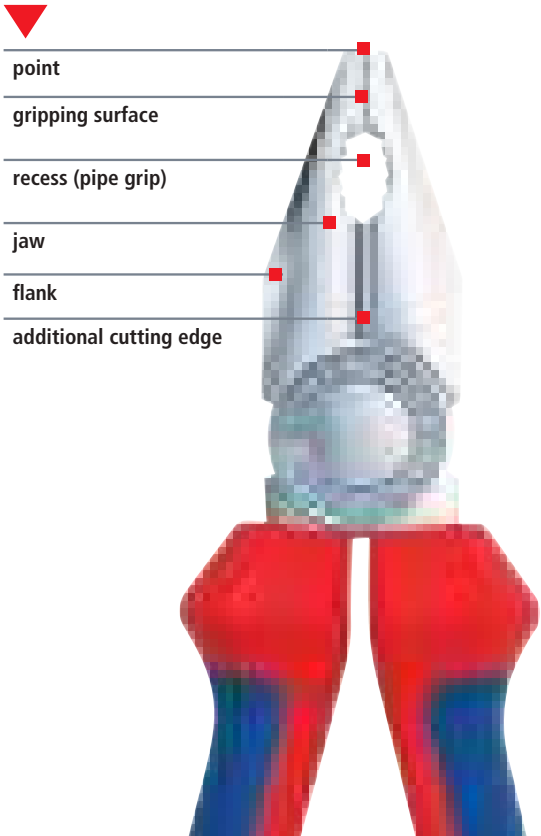


Single joint
Half the thickness in each pliers handle is milled away in the joint area so that both handles can be laid into each other.



Box joint
One handle on the pliers is slit. The other handle is pushed through this slot. This joint connection can withstand a high level of load and strain because the joint bolt is supported on both sides and the inside handle is guided on both sides.





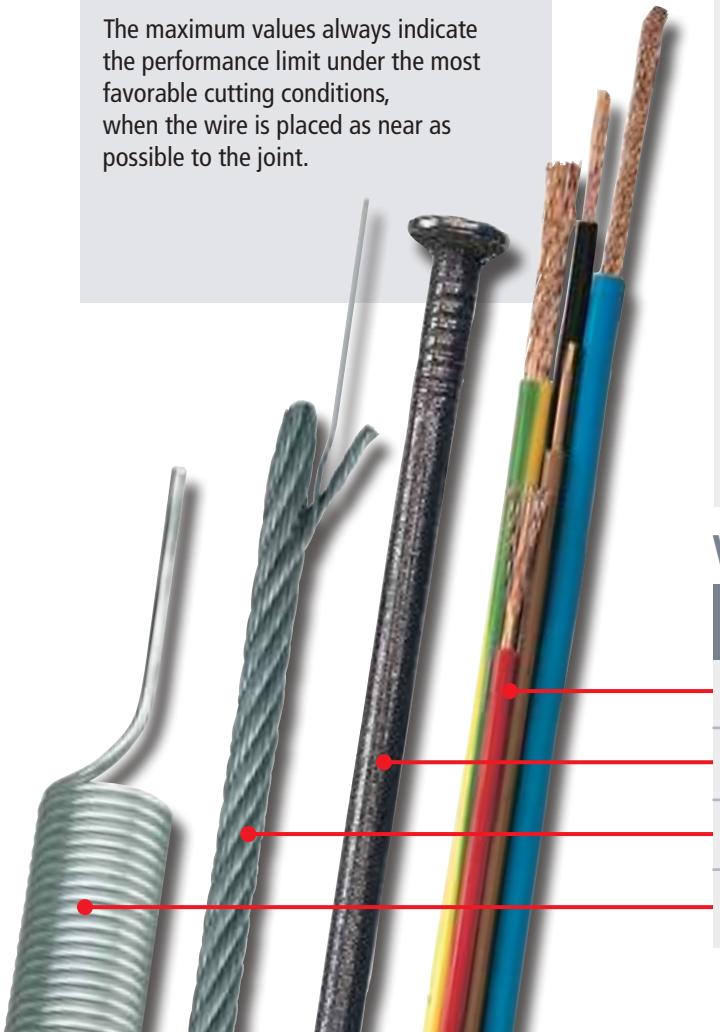
Safety instructions

- Each tool should only be used for its specified purpose.
- When using cutting pliers: beware of wire ends flying off. Wear protective goggles and – if needed – gloves. Be aware of bystanders!
- Only handles marked with the symbol ⩓1000 V are insulating.

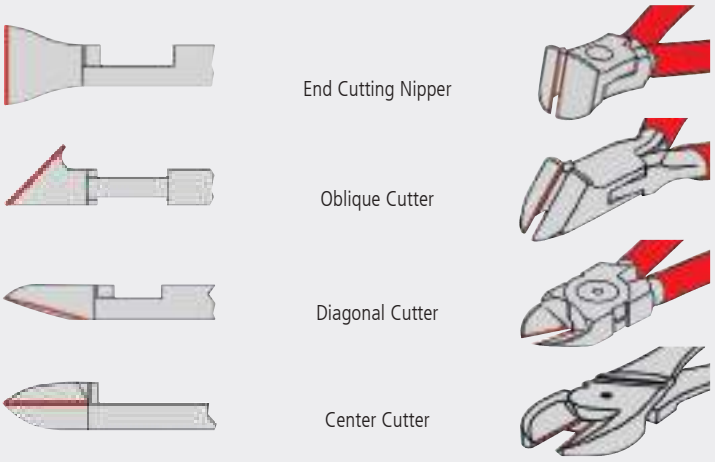
Care Tips

A drop of oil on polished surfaces and in the joint will keep the tool in good working order and will increase the service life of your pliers.

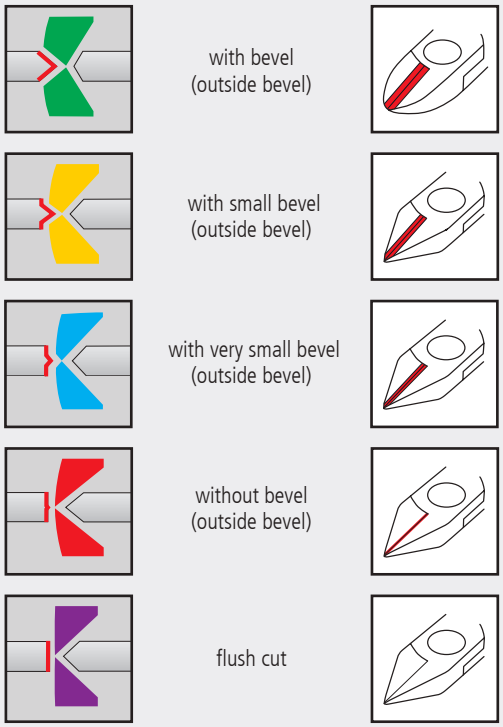
The maximum values always indicate the performance limit under the most favorable cutting conditions, when the wire is placed as near as possible to the joint.



Direction and position of cutting edges



Cutting edge shapes



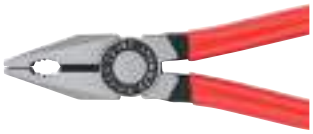
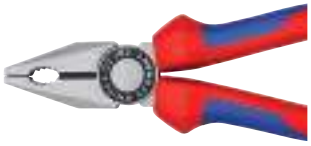
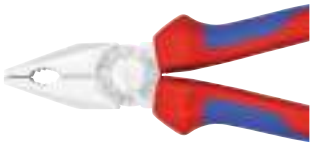
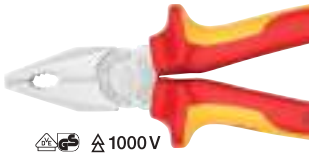
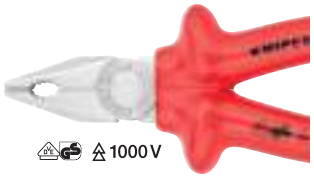
WIRE CLASSES

	Material examples	Type of wire	Tensile strength N/mm²	Tensile strength kp/mm²
◔	Copper, plastics	soft	220	22
◑	Nail, wire pin	medium-hard	750	75
◕	Wire rope strand, steel wire	hard	1800	180
●	Spring steel wire	piano wire	2300	230

STRUCTURE OF THE ARTICLE NUMBER

Basic model e.g.: Combination Pliers	Style e.g.: straight	Finish e.g.: head polished, handles plastic coated	Length e.g.: 180 mm
03	0	1	180

HEAD / HANDLES

0	Pliers black atramentized, head polished	
1	Head polished, handles plastic coated	
2	Head polished, handles with multi-component grips	
3	Pliers chrome plated, handles plastic coated	
4	Pliers chrome plated	
5	Pliers chrome plated, handles with multi-component grips	
6	Pliers chrome plated, handles insulated with multi-component grips VDE-tested DIN EN/IEC 60900	
7	Pliers chrome plated, handles with dipped insulation, VDE tested DIN EN/IEC 60900	
8	Pliers head polished, handles with multi-component grips; ASTM-tested	

SYMBOLS

	flat jaws
	half-round jaws
	round jaws
	flat and pointed jaws
	box joint
	bolted joint
	smooth gripping surfaces
	serrated gripping surfaces
	cross-hatched, knurled gripping surfaces
	with opening spring

	with lead catcher
	angle

	centre cutter
	cutting edges with bevel
	cutting edges with small bevel
	cutting edges with very small bevel
	cutting edges without bevel
	for flush cut of soft materials

	electrostatic discharging, dissipative
	electronics
	VDE tested, also in conformance to GPSG (Equipment and Product Safety Act)
1000 V	insulated according to IEC 60900 and ASTM F1505, usable up to 1000 V AC/1500 V DC
1000 V	insulated according to DIN VDE 0680/1, suitable for the application up to 1000 V AC / 1500 V DC
CE	conforms to a European directive
	mechanically tested in accordance with the equipment and product safety act
	WEEE marking (Waste Electrical and Electronic Equipment Directive)

	weight
	length

	soft wire
	medium hard wire
	hard wire
	piano wire
	Cu + Al multi-conductor cable, solid and multi-stranded
	wire rope
Fe	iron
	ribbon cable
	steel wire armoured cable (SWA)

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