

# KNIPEX INNOVATIONS



KNIPEX Quality – Made in Germany

2011/12

All New Products 2012 at a glance

	No.	Description		No.	Description
	00 11 01	KNIPEX TwinKey		13 91 200	Pliers for Electrical Installation
	00 11 06 V01	Universal Key „Construction“		13 92 200	Pliers for Electrical Installation
	00 11 06 V02	Universal Key		13 96 200	Pliers for Electrical Installation
	00 11 V50	LED Magnetic Light		46 10 100	Circlip Tool, for internal and external circlips
	00 19 11 V01	Counter Display, KNIPEX TwinKey		73 02 160	X-Cut, Compact Diagonal Cutters
	00 19 19 V15 00 19 19 V16 00 19 19 V17 00 19 19 V18 00 19 19 V19 00 19 19 V20 00 19 19 V21 00 19 19 V22 00 19 19 V23	Counter Displays, 10 parts		73 05 160	X-Cut, Compact Diagonal Cutters
	00 20 09 V02	Pliers Set, Cobra® Set		73 06 160	X-Cut, Compact Diagonal Cutters
	00 20 09 V03	Pliers Set, Alligator® Set		73 71 180	KNIPEX TwinForce, High Performance Diagonal Cutter
	00 40 04	Test Support		73 72 180 73 72 180 BK	KNIPEX TwinForce, High Performance Diagonal Cutters
	13 81 200 13 81 200 SB	Pliers for Electrical Installation		83 60 010	Pipe Wrench S-Type, 1", with fast adjustment
	13 82 200 13 82 200 SB	Pliers for Electrical Installation		95 32 320	Cable Cutter, (ratchet action)
	13 86 200 13 86 200 SB	Pliers for Electrical Installation		95 36 320	Cable Cutter, (ratchet action)
				98 62 01	Flat Nose Pliers of plastic, insulating
				98 62 02	Snipe Nose Pliers of plastic, insulating
				97 49 71	Crimping Die, for solar cable connectors MC4 (Multi-Contact)
				97 49 71 1	Locator for 97 49 71 (solar cable connectors MC4)





## KNIPEX TwinForce

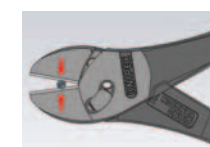
The superior High-Leverage Diagonal Cutter with patented double joint

- ideal transmission of force due to double-hinged design
- extremely easy cutting with little strain:  
**cuts again 50 % easier than the tried and tested KNIPEX high leverage diagonal cutters**
- reliably cuts all types of wire, including steel tape
- for rough or very fine cutting
- low cutting impact: gentle on hands. The tension on muscles and tendons is relieved
- for comfortable cutting, repetitive cutting or extremely hard cutting jobs
- high degree of stability and zero-backlash due to precisely milled forged-in axles
- Chrome vanadium heavy-duty steel

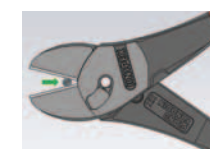


The revolutionary lever action design of KNIPEX TwinForce, patented

**NEW for diagonal cutters:** The option to reapply the tool. The KNIPEX TwinForce cuts even 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.



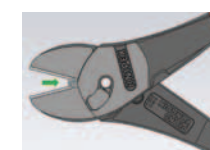
Insert the wires as close to the hinge as possible. In case of cutters with very high transmission, the width of the gap between the cutting edges close to the fulcrum may be less than the thickness of the wire. Wires may slip forward when the cutting starts.



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. Keep the cutting edge in the notches you have made in step 1.



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



You can repeat this process if necessary.

Article-No.	EAN 4003773-	Cutting capacities				
		Ø mm	Ø mm	Ø mm	Ø mm	mm
73 71 180	074762	5,5	4,6	3,2	3,0	180
73 72 180	074779	5,5	4,6	3,2	3,0	180



# Innovation 2012



## KNIPEX TwinKey



10 profiles. 2 crosses. 1 key.  
All established 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: two 4-way spider keys connected in a space-saving way using magnets
- reversible bit: 1,0 x 7 mm slot and PH 2 cross slot
- key and reversible bit joined by stable stainless steel wire
- weight-optimised zinc die-cast design
- quality surface coating



**Well thought out equipment,  
quality processing.**  
The KNIPEX TwinKey has eight arms and consists of two cross keys that are held inside each other with a magnet.



Article No.	EAN 4003773-	Capacities					
		 Ø mm	 Ø mm	 Ø mm	 Ø mm	 Ø mm	 mm
00 11 01	074670	5 / 6 - 7 / 8 - 9 / 10 - 11	7 - 8 / 9 - 10 / 11 - 12	3 - 5	6	6 - 9	95



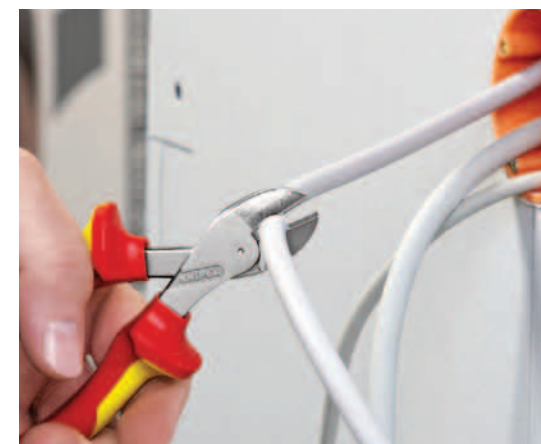
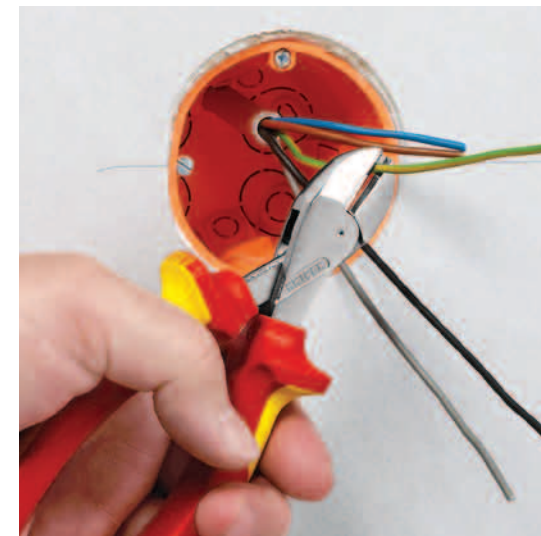


## KNIPEX X-CUT

**Compact and light.  
Powerful and precise.**

*Cuts finest strands as well as multi-core cables and piano wires.*

- box-joint design: highest stability at low weight
- doubly supported joint axis for heaviest duty
- high cutting capacity with very little effort thanks to the optimum coordination of cutting-edge angle and leverage ratio with laterally staggered pivot point
- 20 % less effort required compared to high-leverage diagonal cutters of the same length
- large opening width for thicker cables
- cuts precisely, even through fine copper wires
- compact, low-weight construction
- universally usable, in the assembly, maintenance and production
- Chrome vanadium heavy-duty steel, forged, oil-hardened



Article No.	EAN 4003773-	↔ mm		Pliers	Head	Handles	Cutting capacities					
							⊙ Ø mm	⊙ Ø mm	⊙ Ø mm	⊙ Ø mm	⊙ Ø mm	⚖ g
73 02 160	075127	160	🟢	black atramentized	polished	with multi-component grips	4,8	3,8	2,7	2,2	12	175
73 05 160	075134	160	🟢	chrome plated		with multi-component grips	4,8	3,8	2,7	2,2	12	175
73 06 160	075141	160	⚡ 1000 V 🟢	chrome plated		insulated with multi-component grips, VDE-tested	4,8	3,8	2,7	2,2	12	195



## KNIPEX Installation Pliers

The mobile task force.

- multifunctional pliers for the electrical installation; to grip flat and round material, for bending, deburring, cutting cable, stripping and crimping end sleeves (ferrules)
- 6 functions in one pair of pliers
  - smooth surfaces near the tips grip single cores 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 conductors of 0.7 - 1.5 mm<sup>2</sup> and 2.5 mm<sup>2</sup>
  - crimp die for end sleeves (ferrules) 0.5 - 2.5 mm<sup>2</sup>
  - cable shears with (induction-hardened) precision cutting edges for copper and aluminium cables up to 5 x 2.5 mm<sup>2</sup> / dia. 15 mm
- gripping, without opening the pliers completely (intelligent latching mechanism in the spring assisted version). The cutting edge remains closed and protected.
- slim dimensions for easy access
- bolted joint:
  - precise, zero backlash operation of pliers
- High-grade special tool steel, forged, oil-hardened

### Smooth gripping surface

for a non-damaging gripping and flattening, round-shaping (form wire loops)

### Serrated gripping surface, flattened

for a more powerful yet gentle gripping

### Clear-cut outside edge

for deburring and widening holes

### Pipe grip

for gripping round parts and cables

### Universal crimp die

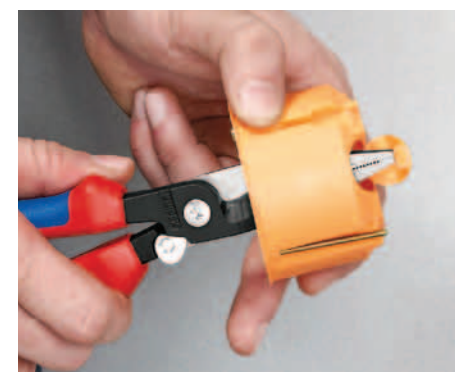
for end sleeves (ferrules) from 0.5 to 2.5 mm<sup>2</sup>

### Stripping

for copper conductors from 0.7 to 1.5 and 2.5 mm<sup>2</sup>

### Shear blade

for cutting copper cables up to Ø 15 mm (5 x 2.5 mm<sup>2</sup>)







## KNIPEX Cable Cutter

Sturdy. Easy to use. Stable.  
Innovative ratchet-drive.  
For cable up to 60 mm diameter.

- easy handling due to low weight (800 g) and compact construction (320 mm length) – usable in confined areas also
- cutting through copper and aluminium cables with diameters of up to 60 mm in one-hand and two-hand operation
- hardened cutting edges, precisely ground, cut smoothly and neatly without crushing
- for cutting copper and aluminium single conductors as well as multiple stranded cables (not suitable for steel wire and wire ropes)
- innovative three-stage ratchet-drive with high leverage for easy cutting in one-hand and two-hand operation
- fixed handle with support area for putting down the pliers when cutting
- High-grade special tool steel, forged, oil-hardened



First manual ratchet-action cable cutter for one-hand and two-hand operation for cutting through copper and aluminium cables with diameters of up to 60 mm!

Article No.	EAN 4003773-	↔ mm		Tool	Handles	Cutting capacities		MCM	g
						Ø mm	mm <sup>2</sup>		
95 32 320	075172	320	⊕/MM	burnished	with multi-component grips	60	600	1200	800
95 36 320	075189	320	⚡ 1000 V ⊕/MM	burnished	insulated with multi-component grips, VDE-tested	60	600	1200	800





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2012

   1000 V

## Flat Nose and Snipe Nose Pliers of plastic, insulating



IEC 60900 DIN EN 60900 ASTM F1505

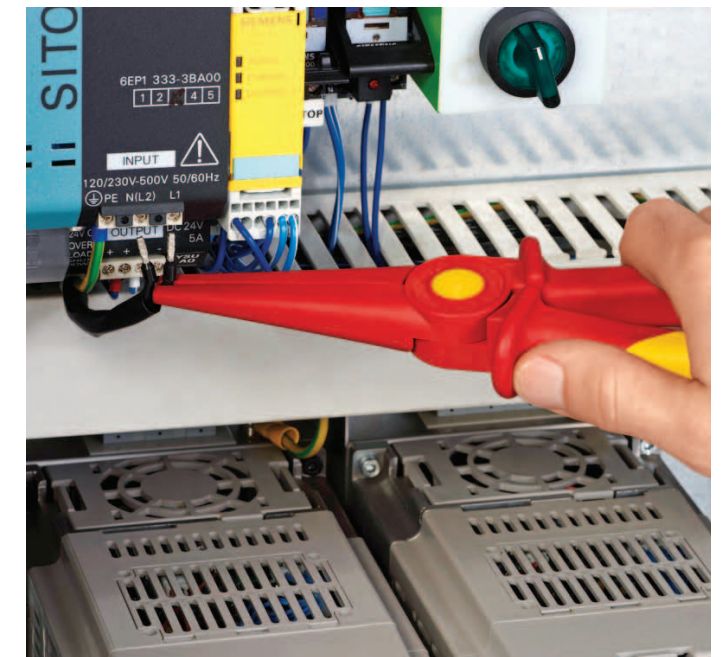
- fully insulating to reduce risk of short circuit
- for meter assembly and meter blocking
- made of fibreglass reinforced plastic
- handles with soft plastic zone for better grip

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 either and they are fully spark-free. They are also excellent for use in chemically aggressive environments.



Article No.	EAN 4003773-	↔ mm		Tool	Handles	g
98 62 01	073956	180		Flat Nose Pliers of plastic, fibreglass reinforced	with soft plastic zone	120
98 62 02	073963	220		Snipe Nose Pliers of plastic, fibreglass reinforced	with soft plastic zone	130







## 1" Pipe Wrench S-Type with fast adjustment Art.-No. 83 60 010

- 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 handles
- high wear resistance due to the additionally hardened teeth

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2012

## Circlip Tool

for internal and external circlips  
(Art.-No. 46 10 100)

- universally usable for large circlips with nominal diameters of 400 - 1000 mm
- reliable opening and closing of the circlips and holding by self-lockig precision spindle drive
- for fitting and removing circlips in one operation
- circlips are securely held thanks to short, direct attachment
- replaceable tips with 6-mm and 9-mm diameters, for perfect adaptation to the actuation bores in the circlips
- optional operation with hexagonal key, ratchet wrench or cordless screwdriver
- areas of application are wherever very high forces and torques are transmitted with large shafts and bearings, e.g.
  - wind turbines
  - tidal power stations
  - generator construction
  - hydropower stations
  - large machine construction (rolling mills, presses)
  - shipbuilding
  - aerospace



manually operable



machine operable



replaceable inserts for internal and external circlips



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2012







**LED Magnetic Light**  
**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
- Art.-No. 00 11 V50

Innovation  
2012

**All New Products 2011 at a glance**

	No.	Description
	00 19 19 V01	Counter displays, 10 parts
	–	
	00 19 19 V13	
	00 19 72 LE	Belt Pouch, for two pliers
	00 19 73 LE	Tool Pouch, for up to eight tools
	00 20 09 V01	Bestseller Set
	00 20 10	Power Set
	00 20 11	Assembly Set
	00 20 12	Electro Set
	00 20 13	VDE Tool Set with 3 WERA screw drivers
	00 20 72 V01	KNIPEX Minis in belt pouch, with 87 01 125 and 86 03 150
	12 12 12	Precision Insulation Stripper, with shaped blades
	12 19 12	Set of spare blades for 12 12 12
	12 64 180	Automatic Insulation Stripper for flat cable
	30 41 160	Halogen Bulb Exchange Pliers
	87 01 125 SB	KNIPEX Cobra®, Hightech Water Pump Pliers
	87 02 180 SB	
	87 02 250 SB	
	87 02 300 SB	
	87 03 125	

	No.	Description
	87 26 250 SB	KNIPEX Cobra® VDE Hightech Water Pump Pliers, insulated
	95 39 038	Spare cutter head for 95 32 038
	97 49 59	Crimping Dies, for solar cable connectors Helios H4 (Amphenol)
	97 49 59 1	Locator for 97 49 59
	97 49 66 2	Set of Mounting Tools for solar cable connectors MC4
	97 49 66 4	Crimping Dies, for solar cable connectors MC4 – cutting – stripping – crimping
	97 49 66 6	
	97 49 69 1	Crimping Dies, for solar cable connectors (Wieland)
	97 49 69 11	Locator, for 97 49 69 1 and 97 49 69 2
	97 49 69 2	Crimping Dies, for solar cable connectors (Wieland)
	97 91 02	Tool Case for Photovoltaics, MC3
	97 91 02 LE	Tool Case for Photovoltaics, empty
	98 30	T-Handle Drive, with driving square 3/8"
	98 33 25	Torque Wrench, with driving square 3/8", reversible
	98 53 03	Dismantling Knife
	98 53 13	Dismantling Knife



# KNIPEX Wire rope cutter

Dashing, sharp and ready

## Clean cutting, precise crimping.

A detailed examination of the wire rope cutters shows a design with useful double function. The special pliers cut wire ropes cleanly (including piano wire) without fanning out, and crimp ferrules onto wire ropes. The same applies for Bowden cables. Sleeve and traction are shortened cleanly and the cap is crimped onto the sleeves.

## Many applications.

Users therefore need only one tool to get to steady results in a convenient and effort-saving way – in industry, agriculture, on vehicles, motorcycles, bicycles, as well as in every case where wires are tightened, e.g. in interior finish



# Precise stripping of conductors up to 10 mm² cross section.

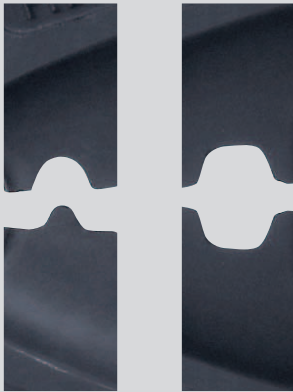
Renewable energies are an integral part of an holistic energy concept and are evolving to be an important factor in the economy. Photo-voltaics in particular indicates constant growth rates, which represents an important business sector for the electrical trade.

## KNIPEX Precision Insulation Stripper.

Modern PV systems are highly-complex electrotechnical systems and they work very efficient. The solar panels are connected via solar cabling with conductor cross sections of 4 mm², 6 mm² or 10 mm². The precision insulation stripper 12 12 12 from KNIPEX is particularly adapted to the large cable cross sections and the specific insulations.

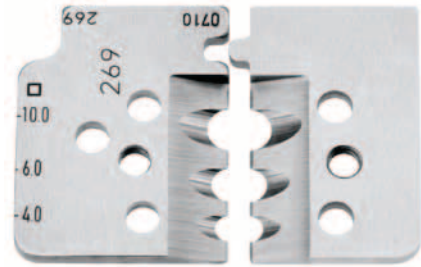
## Precise and reliable.

For exact insulation stripping, two precisely shaped blades cut the insulation to a complete extent. Then the blade pairs move outwards, so that the tough insulations, sometimes also multi-layered, are removed complete and reliable and without any damage to the conductor. The pliers release the cable automatically after the stripping procedure.



Wire rope cutter with dual function: clean cutting, precise crimping.

- cuts all wire ropes, including high-strength wires (piano wire) cleanly and without fanning out
- with two crimping dies for end caps on Bowden cable sheaths and end ferrules for traction cable
- comfortable work thanks to handy, slim design and internal opening spring
- bolted joint for precise blade guidance, adjustable
- high transmission ratio for easier cutting
- Chrome-vanadium electric steel, forged, oil-hardened



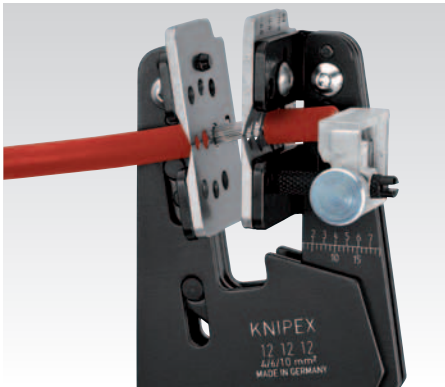
Shaped blades for precise stripping of cross sections up to 10 mm²



Positive stripping thanks to precise shape of the blades



Precise cutting of the insulation to a complete extent



Automatic removal of the insulation




## KNIPEX Insulated Tools – a matter of trust

The purchase of insulated hand tools is a matter of trust. KNIPEX offers special tools which are designed, manufactured and tested specifically for live working.

KNIPEX insulated tools are made of high-quality materials, which have been manufactured and tested in conformance with the regulations of national and international standards.

KNIPEX tools that are marked with the **1000V** have to pass several standardised tests, among those test for dielectric strength, applying 10,000 V. For the user this guarantees a very high level of extra-protection

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

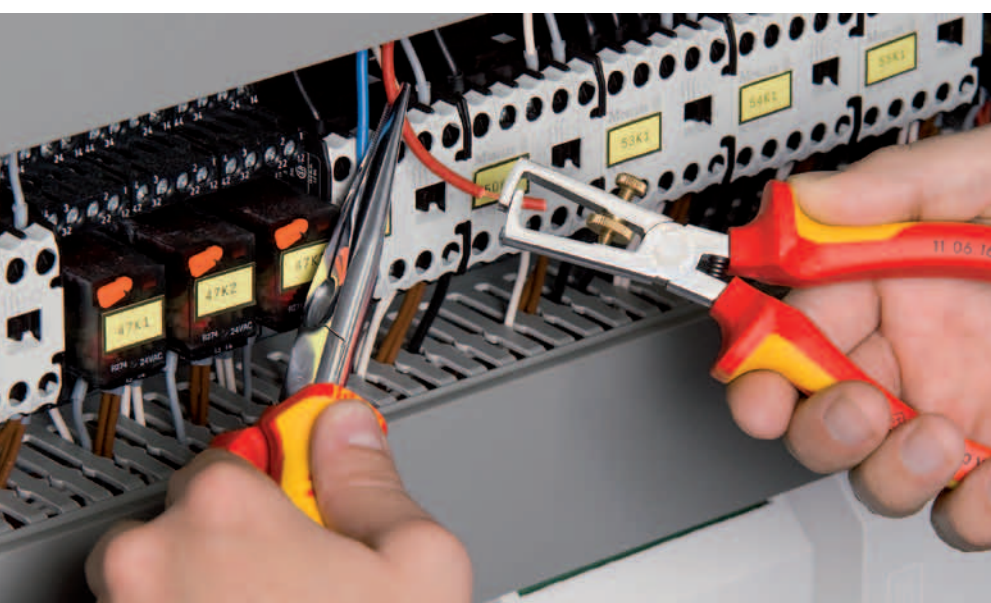
Because the purchase of insulated hand tools is a matter of trust.



## KNIPEX Tool Case for Photovoltaics.

High demands in terms of results require the use of high-quality special tools. These must be adapted precisely to suit the systems of various manufacturers. As these systems are not compatible with each other, each type of connector requires a set of individual crimping dies. The assortment is completed by locators to support quick, easy and precise work.

The solar tool case 97 91 02, with lockable partition wall, contains the tool combination that solar power workers require for the connection of MC3 (Multi-Contact) plug connector systems.



Cable knives with insulating multi-component grip, VDE-tested.



### VDE insulated Cable Shears – Art. No. 95 16 165

- for cutting copper and aluminium cables, single and multiple wire
- clean and smooth cut without crushing and deformation
- easy cutting with one-hand operation
- adjustable bolted joint, self-retaining screw

### Precision Insulation Stripper, with shaped blades – Art. No. 12 12 11

- form-fit stripping; also multi-layered insulations
- a second pair of blades securely holds the remaining insulation
- shaped blades, adapted to the cross-section of the conductor
- with adjustable length stop for use when the stripping lengths are the same in repetitive work
- with additional cable support facilitating the alignment of multi-layered insulated conductors in the stripping holes

### Crimp System Pliers for exchangeable crimping dies – Art. No. 97 43 200 A

- one tool for almost 1,000 crimp applications
- almost parallel crimping performance
- repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)

### Crimping Dies for solar cable connectors MC3 – Art. No. 97 49 65

### Locator for 97 49 65 MC3 solar cable connectors – Art. No. 97 49 65 1

### Mounting Tool for MC3 solar cable connectors – Art. No. 97 49 65 2

- for easy and quick assembly of MC3 solar cable connectors
- for mounting solar spouds for connectors from 2.5 to 10.0 mm<sup>2</sup>
- three mandrels (2.5/4.0; 6.0; 10.0 mm<sup>2</sup>) for mounting spouds integrated in the removable grip



Mutable and with high sales power.

The development of KNIPEX sales promotion measures is oriented to the requirements of the trade.

The new display 00 19 19 can be variably equipped, is compact, rugged and simple to set up.

- all-around colour design, with neutral header
- small size, minimum space required on the point of sales
- Dimensions, set up (W x H x D): 225 x 435 x 225 mm



Artikel-No.	EAN 4003773-	Contents		g
00 19 19 V01	073147	10 x Art. 68 01 200	End Cutting Nippers 200 mm	3790
00 19 19 V02	073154	10 x Art. 87 01 250	KNIPEX Cobra® Hightech Water Pump Pliers 250 mm	3740
00 19 19 V03	073161	10 x Art. 88 01 180	KNIPEX Alligator® Water Pump Pliers 180 mm	2400
00 19 19 V04	073178	10 x Art. 88 01 250	KNIPEX Alligator® Water Pump Pliers 250 mm	3790
00 19 19 V08	073215	5 x Art. 86 03 180 / 5 x Art. 86 03 250	Pliers Wrenches 180 mm / 250 mm	4550
00 19 19 V09	073222	5 x Art. 87 01 180 / 5 x Art. 87 01 250	KNIPEX Cobra® Hightech Water Pump Pliers 180 mm / 250 mm	3020
00 19 19 V10	073239	5 x Art. 87 01 250 / 5 x Art. 87 01 300	KNIPEX Cobra® Hightech Water Pump Pliers 250 mm / 300 mm	5070
00 19 19 V11	073246	5 x Art. 88 01 250 / 5 x Art. 88 01 300	KNIPEX Alligator® Water Pump Pliers 250 mm / 300 mm	4750
00 19 19 V12	073253	5 x Art. 99 00 250 / 5 x Art. 99 00 280	Concretors' Nippers 250 mm / 280 mm	4550
00 19 19 V13	073789	10 x Art. 71 01 200	KNIPEX CoBolt® Compact Bolt Cutters 200 mm	3950
00 19 19 V15	074540	10 x Art. 88 01 300	KNIPEX Alligator® Water Pump Pliers 300 mm	6355
00 19 19 V16	074557	10 x Art. 87 01 180	KNIPEX Cobra® Hightech Water Pump Pliers 180 mm	2945
00 19 19 V17	074564	10 x Art. 87 01 300	KNIPEX Cobra® Hightech Water Pump Pliers 300 mm	6545
00 19 19 V18	074687	10 x Art. 99 00 220	Concretors' Nippers 220 mm	3150
00 19 19 V19	074694	10 x Art. 99 00 250	Concretors' Nippers 250 mm	4600
00 19 19 V20	074700	10 x Art. 99 00 280	Concretors' Nippers 280 mm	5800
00 19 19 V21	074717	10 x Art. 99 14 250	High Leverage Concretors' Nippers 250 mm	4750
00 19 19 V22	074861	5 x Art. 88 01 180 / 5 x Art. 88 01 250	KNIPEX Alligator® Water Pump Pliers 180 mm / 250 mm	3035
00 19 19 V23	074878	5 x Art. 88 01 180 / 5 x Art. 88 01 300	KNIPEX Alligator® Water Pump Pliers 180 mm / 300 mm	4475



KNIPEX Pliers-Sets
















- attractive sales packaging with Euro standard perforation
- material: sturdy cardboard packaging, printed
- tools in a plastic deep-drawn tray with transparent lid



00 20 09 V01

00 20 09 V02

00 20 09 V03

Artikel-No.	EAN 4003773-				Capacities										Adjustment positions	Quantity		
					mm	Ø mm	Ø mm	Ø mm	Ø mm	mm²	Ø Zoll							
00 20 09 V01	073994	Bestseller-Set															950	
		03 02 180	Combination Pliers	180		3,4	2,2	12	16					1				
		70 02 160	Diagonal Cutter	160	4,0	2,8	2,0							1				
		87 01 250	KNIPEX Cobra®	250						2	50	46	25	1				
00 20 09 V02	074793	Cobra®-Set															1.220	
		87 01 180	KNIPEX Cobra®	180						1 1/2	42	36	18	1				
		87 01 250		250						2	50	46	25	1				
		87 01 300		300						2 3/4	70	60	30	1				
00 20 09 V03	074809	Alligator®-Set															1.195	
		88 01 180	KNIPEX Alligator®	180						1 1/2	42	36	9	1				
		88 01 250		250						2	50	46	9	1				
		88 01 300		300						2 3/4	70	60	9	1				





#### Display for presentation of screw drivers

- 4 hooks for screw drivers
- capacity: 6 - 8 screw drivers / hook
- sturdy wire rack
- dimensions: 270 x 120 x 200 mm

#### Display for presentation of Bolt Cutters and Concrete Mesh Cutters

- for up to 6 Bolt Cutters or Concrete Mesh Cutters
- dimensions: approx. 500 x 350 x 150 mm
- 6 x tubular sleeves welded on the base plate
- powder coated in brilliant silver
- weight: 8 kg



#### Display for presentation of new products or promotions

- for 6 - 12 pairs of pliers with a length of 160 mm - 200 mm
- stable metal body with interchangeable foam insert
- product offer cards with descriptive texts that can be easily swapped
- small size, minimum space required at the point of sales



#### Money tray for presentation of new products or promotions

- high quality presentation of a single pliers with a length of 160 mm - 200 mm
- sturdy plastic body with lockable acrylic glass cover
- the shop assistant may take the tool out for demonstration
- product offer cards with descriptive texts that can be easily swapped



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