



**PRECISION TOOLS
FOR PHOTOVOLTAIC PROFESSIONALS**

CONTENTS

KNIPEX harnesses passion and commitment to create high-quality tools that are specially tailored to the needs of photovoltaic professionals.

Whether for installation, maintenance, repair or optimisation – our tools will be your reliable partners for many years, ensuring the best utilization of solar energy. Not only the robustness and long service life of KNIPEX tools are legendary, but also their precision. This precision is particularly important in the field of photovoltaics. Only particularly precise cutting, stripping and crimping can get the best yields out of the sun's energy – and that, in turn, is the best advertisement for you and your company!

CUTTING

1

CABLE SHEARS

The KNIPEX cable cutter is the practical way to cut PV cables without crushing, thus ensuring weather resistance on all cable connections

PAGE 4

2

KNIPEX X-CUT®

This diagonal cutter cuts the finest wires with great precision, and even the hardest wires and nails particularly easily, thanks to the perfect coordination of cutting angle and leverage ratio

PAGE 5

3

ELECTRONIC SUPER KNIPS XL

Clean cuts without bevel are invaluable for flush-cut cable ties for securing PV cables

PAGE 6



STRIPPING

4

PRECISION WIRE STRIPPER

It couldn't be more precise: for form-fit stripping of even difficult-to-remove insulating materials from PV cables
PAGE 7

5

KNIPEX ERGOSTRIP® PV

The handy tool for stripping PV cables and multi-conductor cables
PAGE 8

6

KNIPEX PRECISTRIP16

Fast, lightweight, precise: automatic insulation stripper for finely stranded and solid wires between 0.08 and 16 mm²
PAGE. 10

7

KNIPEX NEXSTRIP®

A genuine electrician's multi-tool: with cable cutter, automatic wire stripper and crimping pliers for wire ferrules
PAGE 11

CRIMPING

8

ASSEMBLY TOOL SET

Makes MC4® complete: two assembly tools for tightening and loosening the cable housings of MC4® solar connectors
PAGE 13

9

KNIPEX PRECIFORCE

For MC4® and MC4® Evo 2 connectors – the ideal crimping pliers for newcomers to the PV industry
PAGE 14

10 11 12

CRIMP SYSTEM PLIERS

From the flexible basic model to the pre-configured special pliers for MC4® plug type connector: the systematic approach to crimping for electrical and PV applications
From p. 15

13

KNIPEX MULTICRIMP

The 3-in-1 all-rounder: just one tool with three crimping dies for MC4®/MC4® Evo 2, uninsulated cable connectors and Wire ferrule
PAGE 18

14

CRIMPING PLIERS FOR TWO-HAND OPERATION

Multi-core cables with up to 2 x 16 and 25 mm² can be easily crimped with two hands
PAGE 19

TOOL ASSORTMENTS

15

PV TOOL CASE

The KNIPEX photovoltaic cases contain all the tools required for processing MC4® connectors or optionally for other PV connectors
PAGE 20

16

MODULAR X18 ELECTRICAL TOOL BACKPACK

22 branded tools for electrical professionals, for convenient transport
PAGE 21

MORE POWERFUL TOOLS FOR PV SYSTEMS

Helpful tools for special cases on PV systems
PAGE 22



PART NO.:
95 16 165



Cutting without crushing

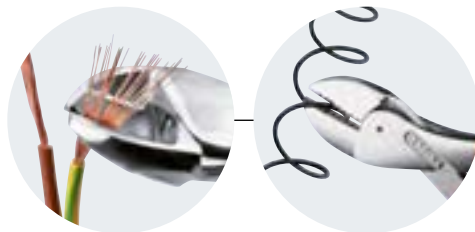
Cable Shears

Cut cables with little effort

The 95 16 165 cable cutter cuts even multi-strand copper cables up to a diameter of 15 mm with virtually no effort. The sharp cutting edges cut without crushing, which guarantees particularly precise stripping and crimping.

- ▶ Cuts smoothly and cleanly without crushing
- ▶ Easy cutting with one-handed operation
- ▶ Adjustable screw joint, self-locking
- ▶ Cuts copper and aluminium multi-conductor cables with fine wires up to Ø 15 mm (50 mm²)
- ▶ Not suitable for steel wire and hard drawn copper conductors
- ▶ Precision-ground, hardened cutting edges
- ▶ With pinch guard





Precisely cuts the finest wires as well as multi-stranded cables and hard piano wire

KNIPEX X-Cut®

Compact diagonal cutter, high lever transmission

The rusty nails that get in the way during roof installations pose no problem for this high leverage compact diagonal cutter. The precision tool cuts everything from the finest strands and hard wires to piano wire – thanks to the perfect coordination of cutting edge angle and transmission ratio.

- ▶ **Powerful, lightweight and universal**
- ▶ **High cutting performance with low effort** thanks to optimised coordination of cutting edge angle and transmission ratio
- ▶ **Box joint: maximum stability despite lightweight design**
- ▶ Double-bearing hinged joint for heavy, permanent loads
- ▶ Large opening width for thicker cables
- ▶ Precise cut even with fine copper strands
- ▶ Compact, weight-saving construction
- ▶ Universally applicable, in assembly, maintenance and production
- ▶ 40% less force required compared to standard diagonal cutters of the same length
- ▶ Precision cutting edges additionally induction-hardened, (cutting edge hardness approx. 62 HRC) for all wire types including piano wire





Electronic Super Knips XL

Electronics diagonal cutter, also cuts cable ties

PV cables are exposed to wind and weather and are specially designed to be very robust and weatherproof. To ensure that they can withstand their extreme requirements in the long term, they must not drag on roof tiles or foundations or move in the wind – otherwise there is a risk of conductor breakage or damage to the insulation. All cables must therefore be carefully secured. Solar installers also use strong cable ties for this securing, for example on the aluminium profiles. The Electronic Super Knips XL cuts off their protrusions flush, which minimises the risk of injury to hands during installation and maintenance.

- ▶ Ideal for shortening cable ties
- ▶ Also **suitable for ultra fine cutting work**, e.g. in electronics and precision engineering
- ▶ Ground, extremely **sharp cutting edges without bevel**
- ▶ **Shear cut** with controlled micro-cutting edge offset for long service life and ultra-precise cutting of even the thinnest wires
- ▶ Precision formed tips also cut through wires flush to a surface from $\varnothing 0.2$ mm
- ▶ Joint with stainless steel rivet
- ▶ Extremely easy movement for fatigue-free work
- ▶ With opening spring and opening limiter
- ▶ Durable and rustproof, made from INOX surgical steel
- ▶ Cutting edge hardness approx. 54 HRC



Precision Insulation Stripper

The precise one, especially for hard PV cables

The precision insulation stripper 12 12 12 is specially optimised for robust PV cables. Its customised blades for 4/6/10 mm² are precisely matched to the respective conductor cross-section making them ideal for stripping the insulation from PV cables.

- ▶ **Form-fit stripping, even of difficult-to-remove insulating materials** made of PTFE, silicone, Radox®, Kapton® and rubber; also multi-layered
- ▶ A second pair of blades reliably holds the remaining insulation in place
- ▶ Precisely matched to the respective conductor cross-section, **interchangeable customised blades**
- ▶ **With adjustable length stop** for identical stripping lengths for repetitive work
- ▶ For PV cables, specially designed for multi-layer and Radox® insulation



12 12 11 for 1.5/2.5/4/6 mm²



PART NO.:
16 95 03 SB



Convenient insertion of PV cables thanks to opening aid



Adjustable length stop from 6 - 18 mm, adjustable in 1.5 mm increments



Stripping device for single wires with cross-sections 0.2/0.3/0.8/1.5/2.5/4.0 mm²



Tapered tool ends for better accessibility in tight spaces



KNIPEX ErgoStrip® PV

Photovoltaic stripping tool

The KNIPEX ErgoStrip® has long been our most popular tool for stripping single conductors and round cables due to its versatility and ergonomic handling. The new KNIPEX ErgoStrip® PV has been specially optimised for the needs of solar installers: in addition to all standard round and moisture-resistant cables, it can also strip weather-resistant and tough PV cables between 4 and 6 mm².

- ▶ For fast and precise stripping of 4 and 6 mm² PV cables (e.g. H1Z2Z2-K) and all standard round and moisture-resistant cables (e.g. 3x1.5 mm² to 5x2.5 mm² NYM cables)
- ▶ Length stop for PV cables: Adjustable from 6 - 18 mm for reproducible stripping lengths, suitable for all standard PV connectors
- ▶ The innovative, ergonomic pistol grip design ensures easy cutting, stripping and longitudinal cutting of the sheathing
- ▶ Simplified insertion of individual conductors for stripping thanks to positioning bars
- ▶ Multi-component design with soft plastic zone for comfortable handling and secure grip

ALSO AVAILABLE AS A SET

00 31 31 V01: For the installation and maintenance of PV systems with KNIPEX ErgoStrip® PV and KNIPEX PreciForce



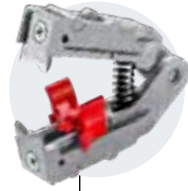
97 52 42 KNIPEX PreciForce:
For installing PV systems with
MC4® and MC4® Evo 2-connectors



16 95 03 SB
KNIPEX ErgoStrip® PV:
for fast and precise
cable stripping



PART NO.:
12 52 195

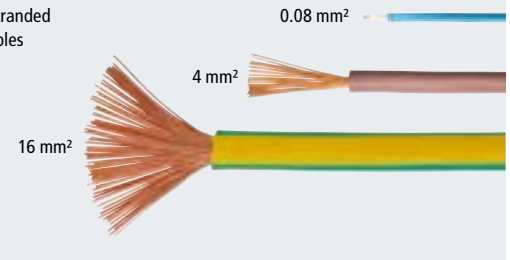


Optionally available: Blade unit
(12 49 32) designed for very hard
halogen-free cables from 4–16 mm²



With a tether attachment point, suitable
for KNIPEX Tethered Tools accessories

Stripping finely stranded
to solid round cables



KNIPEX PreciStrip16

Automatic insulation stripper up to 16 mm²

Automatically strips insulation from all standard wires – and thanks to an innovative fine adjustment, it also grips where other automatic devices would fail. The KNIPEX PreciStrip16 strips fine, flexible and solid cables quickly and precisely. The pliers can be easily adjusted to special materials or temperature conditions using the dial. Precise stripping of insulation is ensured through the parabolic stripping blades.

- ▶ **Simple, precise stripping** of finely stranded to solid round cables in the broad capacity range from 0.08 to 16 mm² with just one tool
- ▶ **Good grip thanks to half-round metal retaining jaws** with comb profile; precise cut thanks to parabolic stripping blades
- ▶ **An automatic system regulates the cutting depth** of the stripping blades; the zero point of this automatic system can be adjusted in fine increments for special operating conditions (insulation material, temperature)
- ▶ With adjustable length stop for precise, repetitive work
- ▶ Inscription area for customisation
- ▶ Easily replaceable blade cassette
- ▶ With upper cable cutter for copper and aluminium wires, finely stranded wires up to 16 mm² (AWG 6) and solid wires up to 6 mm² (AWG 10)
- ▶ Not suitable for stripping PV cables

Multi-tool for cutting,
stripping and crimping



KNIPEX NexStrip®

Electrician's multi-tool

Frequent tool changes slow you down - the KNIPEX NexStrip® saves you time. The electrician's multi-tool reliably helps with most cable work in the home, on electronic devices or in the motorhome – for example on the off-grid PV system on the vehicle roof.







































- ▶ **Safe cutting** thanks to non-slip handles; particularly comfortable handling thanks to the ergonomic two-component handle
- ▶ **Precise stripping:** automatic size adjustment with length stop for precise, repetitive work
- ▶ **Perfect crimping:** crimps wire ferrules evenly, flexibly and quickly; the ratchet mechanism guarantees the required contact pressure
- ▶ Fast, **precise square crimping** of individual wire ferrules according to DIN 46228 Parts 1+4, self-adjusting between 0.25–4 mm² / 2 x 2.5 mm² – allows quick switching between various sizes
- ▶ Stripping with fine adjustment – for optimum adaptation to special materials or temperature conditions for flexible and solid conductors between 0.03 - 10 mm² (AWG 32–8)
- ▶ Durable and robust: high-quality housing made of glass fibre-reinforced plastic
- ▶ Clean cut of copper and aluminium conductors, finely stranded up to 10 mm², solid up to 6 mm²
- ▶ Not suitable for stripping PV cables

With a tether attachment point, suitable
for KNIPEX Tethered Tools accessories







Greater crimping precision with KNIPEX!

Product finder for photovoltaic connectors

When it comes to PV cables, KNIPEX offers a wide range of crimping pliers to suit every need. This overview shows the capacities and features of the entry-level model KNIPEX PreciForce, the versatile professional tool KNIPEX MultiCrimp and the high-end system pliers with all inserts and locators for PV crimp contacts.

Variant	Article no.	Interchangeable crimping die	Crimping die	Locator	Crimp profile	Capacities mm ²
 KNIPEX PreciForce p. 14	97 52 42					4/6
 KNIPEX MultiCrimp p. 18	97 33 03		 97 39 42			4/6
 Crimp system pliers p. 16	97 43 66		 97 49 66	 97 49 66 1*		2.5/4/6
 Crimp system pliers p. 17	97 43 66 EVO		 97 49 71			4/6/10
 Crimp system pliers p. 15	97 43 200 A		 97 49 57*	 97 49 57 1*		4/6/10
			 97 49 58*	 97 49 58 1*		2.5/4/6
				 97 49 58 2*		
			 97 49 59*	 97 49 59 1*		2.5/4/6/10
			 97 49 66*	 97 49 66 1*		2.5/4/6
				 97 49 66 1 EVO*		
			 97 49 66 4*			4
			 97 49 66 6*			6
			 97 49 71*	 97 49 71 1*		MC4®: 4/6/10 MC4® Evo 2: 4/6

* Crimping dies and locators not included in the scope of delivery | ¹ S & F = stamped and formed contact | ² CF = turned contact (cold formed)

 Stäubli	 Stäubli	 Amphenol®	 Amphenol®	 Amphenol®	 Amphenol®
MC4®	MC4® Evo 2	H4™ S&F¹	H4™ CF²	H4 Plus™ S&F¹	H4 Plus™ CF²
✓	✓				
✓	✓				
✓	✓				
✓					
	✓				
			✓		✓
			✓		✓
		✓		✓	
		✓			
			✓	✓	
			✓		
✓	✓				
✓					
	✓				
✓	✓				
✓	✓				
✓	✓				
✓					



The optional locators make it easier to guide the contacts during the crimping process.



Assembly Tool Set

For PV plug type connector MC4®

For installation, maintenance or replacement of individual cables, this set is the quick and convenient way to close and reopen MC4® housings.

- ▶ Set of two installation tools
- ▶ For tightening cable glands on MC4® PV connectors
- ▶ For loosening the lock on MC4® housings (even when the locking sleeve is fitted)
- ▶ Not suitable for MC4® Evo 2





For excellent crimping results:
fast, precise crimping



The crimping dies for 4 and 6 mm² crimp the standard MC4® – and the even more robust MC4® Evo 2 plug type connectors

KNIPEX PreciForce

Crimping pliers for MC4® / MC4® Evo 2

The KNIPEX PreciForce 97 52 42 is our entry-level model for MC4®- and MC4® Evo 2 connectors in 4 and 6 mm². It is the ideal addition to an existing set of crimping tools for processing DC conductors on PV systems – and therefore perfect for small systems on detached houses, industrial roofs or off-grid systems.

- ▶ For installing PV systems with **MC4® and MC4® Evo 2 connectors**
- ▶ **Improved crimp geometry** for high conductivity
- ▶ For installations on residential and industrial buildings or on off-grid systems such as motorhomes
- ▶ Crimping pressure is **precisely set** (calibrated) at the factory
- ▶ High crimp force thanks to efficient lever transmission
- ▶ Good handling thanks to the comfortable grip position and light weight
- ▶ Compact design and ergonomically shaped handles
- ▶ Crimping die is not interchangeable



Consistently high crimp quality thanks to **positive lock** (can be unlocked)



MC4® MC4® Evo 2



Crimp System Pliers

The best in class. A genuine allrounder!

KNIPEX crimp system pliers 97 43 XX are one of the best and most flexible crimping pliers in the world! Basic version 97 43 200 A comes without a crimping die, but can be customised with numerous quick-change dies from the optional 97 49 series to meet practically all cable assembly needs. Thanks to the almost parallel crimping movement, it crimps all types of connectors as perfectly as technically possible. If even greater precision is required, the optionally available locators allow for optimum alignment of the connectors and sleeves, ensuring the best possible conductivity.

KNIPEX offers pre-configured versions with crimping dies for MC4® and MC4® Evo 2 connectors ex works especially for the needs of solar installers. Like all system crimping pliers, these variants can also be used to crimp other PV connectors and all standard insulated and non-insulated connectors – wire ferrules, cable terminals, optical fibre connectors and coaxial cables – with the appropriate crimping dies. When fitted with crimping dies from the accessories range, the KNIPEX system crimping pliers can crimp over 1,000 connector sizes and types; for details, see www.knipex.com



The parallel crimping movement of the system pliers ensures that the wire strands are arranged without gaps.

For all connectors
97 43 200 A



For MC4/MC4® EVO 2
up to 6 mm²
97 43 66



For MC4® EVO 2
up to 10 mm²
97 43 66 EVO



10

PART NO.:
97 43 200 A



The crimping die and locator can be fitted and changed in just a few seconds using a hex key



Numerous locators for precise positioning

Crimp System Pliers

For interchangeable crimping dies

- ▶ Just one tool for practically all PV connectors and many other common connector types
- ▶ Almost parallel crimping movement
- ▶ Consistently high crimp quality thanks to precision inserts and positive lock (can be unlocked)
- ▶ Crimping pressure is **precisely set** (calibrated) at the factory
- ▶ **Force is amplified** through lever transmission for low-fatigue working
- ▶ Crimping dies for special applications that go beyond the range offered, on request

THE FLEXIBLE
BASIC MODEL
FOR CUSTOMISED
EQUIPMENT

FOR MC4®/MC4®
EVO 2 CONNECTORS
up to 6 mm²

Perfect for MC4® ex works

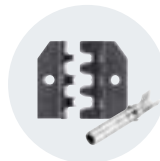
- ▶ Strong and powerful like the 97 43 200 A
- ▶ Also compatible with all 97 49 XX series crimping dies and contact receptacles
- ▶ Especially for photovoltaic installations with MC4® plug type connectors



Crimps practically everything: from wire ferrules...



... including cable terminals and connectors...



... through to special connectors such as MC4®.



Locator 97 49 66 1
for MC4® connector
optionally available



Includes crimping die
for MC4® and MC4® Evo 2 plug
type connectors in 2.5 mm²,
4 mm² and 6 mm²



Crimping die and locator pre-assembled
for precise positioning – for maximum conductivity

Perfect for MC4® Evo 2 ex works

Solar installers are increasingly turning to MC4® Evo 2 connectors when facing particularly stringent requirements and harsher environments. They are mechanically even more stable, more temperature-resistant and have a higher approved rated voltage than normal MC4® connectors.

The larger connectors, especially for 10 mm² conductors, can only be crimped with the 97 43 66 Evo version of the crimp system pliers. It has an increased jaw opening width specifically for this purpose and is fitted ex works with a special Evo 2 crimping die and locator for 4/6/10 mm² conductors. Like normal crimp system pliers, this special version can also be fitted with all crimping dies and locators from the optional 97 49 series.

- ▶ **Specially modified system clamp:** optimised for MC4® Evo 2 connectors up to 10 mm²
- ▶ **Professional standard for large PV installations**
- ▶ For one- and two-hand operation
- ▶ Fitting optional locator 97 49 71 1 also allows PV connectors from the MC4® series to be crimped

**FOR MC4®
EVO 2 CONNECTORS**
up to 10 mm²



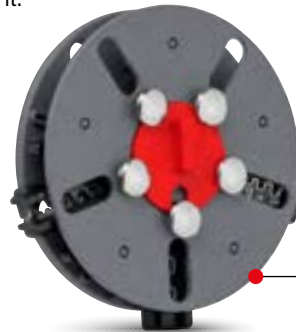
PART NO.:
97 33 03

KNIPEX MultiCrimp

Crimping pliers with changer magazine

The versatile 97 33 03 crimping pliers are the specialist for PV systems in the KNIPEX MultiCrimp family. Supplied ex works with a quick-changer magazine equipped with three crimping dies: for MC4®/MC4® Evo 2, uninsulated cable connectors and wire ferrules. Naturally with all the advantages of the entire family: quick change of crimping dies for all common crimp connectors, professional quality of the tool itself and the crimp connections made with it.

- ▶ Universal, powerful crimping pliers with the best features for photovoltaic systems
- ▶ Only one tool with three crimping dies for MC4®/MC4® Evo 2, uninsulated cable connectors and wire ferrules
- ▶ Quick and easy change of crimping dies without additional tools
- ▶ Safe and secure storage of the interchangeable dies in a round magazine for up to five crimping dies
- ▶ For PV cables, earthing conductors* and cabling to the meter cabinet



Expandable with optional crimping dies 97 39 05/06/09



Crimping die 97 39 08:
Crimps AC wires from the inverter to the meter cabinet – with crimping die 97 39 08 for insulated and uninsulated wire ferrules in 0.25–6 mm²



Crimping die 97 39 13:
Crimps connections for earthing cables, for example, for uninsulated cable connectors in 0.5–10 mm²



Crimping die 97 39 42:
Crimps connectors for PV conductors for MC4® and MC4® Evo 2 connectors in 4 and 6 mm²

**FOR TWIN WIRE
FERRULES**
in 2x6/2x10/
2x16 mm²



**FOR UNINSULATED
CABLE TERMINALS
AND CONNECTORS,**
16 and 25 mm²



Crimping Pliers

Also suitable for two-hand operation

High-cross-section conductors are required for potential equalisation, even for smaller systems in private homes. The connectors required here need to be crimped with a correspondingly high force, which is why KNIPEX provides crimping pliers specially designed for two-hand operation.

Two models for the most common connection variants are available here:

97 52 18 crimps twin wire ferrules 2x6/2x10/2x16 mm²

97 52 23 crimps uninsulated cable terminals and 16 and 25 mm² cable connectors

- ▶ **Up to 30% reduced manual force** compared to standard commercial crimping pliers due to lever transmission
- ▶ **Consistently high crimp quality** thanks to precision inserts and positive lock (can be unlocked)
- ▶ Crimping pressure is precisely set (calibrated) at the factory
- ▶ Two-hand operation for easy crimping of large wire cross-sections
- ▶ Good handling thanks to balanced centre of gravity, angled head and ergonomically shaped handles
- ▶ Crimping die is not interchangeable



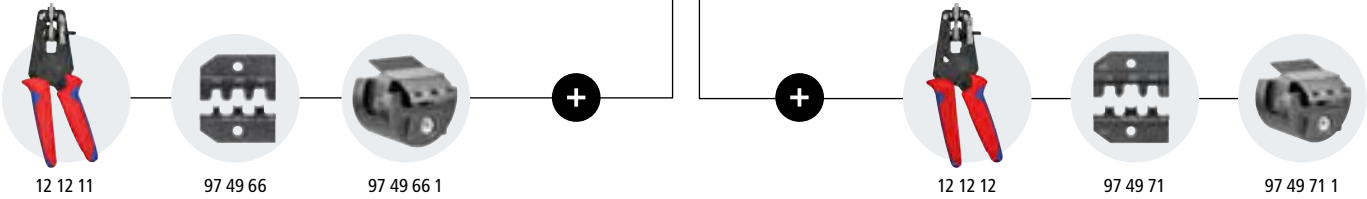
15

PART NO.:
97 91 04 V01

PART NO.:
97 91 04 V02



PV Tool Case
for MC4® connector



97 91 04 V01: for MC4® up to 6 mm²
Complete crimping set: with cable cutter, precision insulation stripper for PV cables, crimping pliers for MC4® plug type connectors in 2.5/4.0/6.0 mm² and assembly tools for the demands of MC4® connector housings.

97 91 04 V02: for MC4® up to 10 mm²
Like the V01, the V02 is also complete, but is intended for larger cables with cross-sections of 4/6/10 mm² – and therefore also for higher-current PV systems.

Bonus: The impact-resistant plastic case is lined with foam for safe tool transport, with precisely tailored recesses for holding tools, crimping dies and locators. The tool set in the case can be extended with additional PV crimping dies, see table on page 12.

Tool Backpack

Modular X18 Electric



The MOLLE straps extend the capacity of the KNIPEX Modular X18



Customised crimping die assembly

PART NO.: **97 91 01** (for 2.5/4/6 mm²)

The same as **97 91 04 V01**, but **without crimping dies and locators**; for customised assembly with crimping dies and locators, see the table on p. 12.

PART NO.: **97 91 03** (for 4/6/10 mm²)

The same as **97 91 04 V02**, but **without crimping dies and locators**; for customised assembly with crimping dies and locators, see the table on p. 12.

The Modular X18 Electric tool backpack comes with 22 high-quality branded tools for all electric professionals ex works and also offers plenty of room for the specific needs of solar installers. No matter what photovoltaic challenge lies ahead and whether you're working on the roof or in the great outdoors, the Modular X18 Electric is the perfect choice for carrying your tools comfortably on your back and with your hands free. Available unequipped as 00 21 50 LE.



High-quality branded tools from



EVEN MORE POWERFUL HELP FOR SOLAR INSTALLERS



PLIERS WRENCHES

PART NO.:

86 03 180

When cordless tools can't be used, the pliers wrench uses the ratchet principle on all connections up to a width across flats of 40.



SNIPE NOSE SIDE CUTTING PLIERS (STORK BEAK PLIERS)

PART NO.:

26 16 200

The "stork beak pliers" also grip hard-to-reach workpieces where other tools have no chance.



PLASTIC GRIPPING PLIERS

PART NO.:

98 62 01

When working in the vicinity of live systems, the all-plastic gripping pliers minimise the risk of short circuits.



KNIPEX TwinGrip

PART NO.:

82 02 200

Slim and grips strongly with the front: even worn screws and bolts can be loosened in hard-to-reach places.



SNIPE NOSE SIDE CUTTING PLIERS (STORK BEAK PLIERS)

PART NO.:

26 26 200

Reaching around the corner: like the 26 16 200, but with tips bent by 40°.



SNIPE NOSE PLIERS MADE OF PLASTIC

PART NO.:

98 62 02

Same as 98 62 01, but can also be used in tight spaces, for example deep inside electrical cabinets.

DID YOU KNOW?

Since 2011, **KNIPEX** has been relying on self-generated electricity from our own photovoltaic systems.

Discover more about us and many other KNIPEX tools in different variants, lengths and surfaces at www.knipex.com





www.knipex.com



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