



SOLAR TOOLS CATALOG

95 11 160

StepCut® Cable Shears

Cable cutting made easy

Innovative step cutting separates and cuts wire one by one. Small, light, strong, comfortable cutting without crushing and just 6 1/4" in length.

- The cutting edge gradations cut wires one after the other making cutting 40% easier than with standard cable shears of the same length
- Cuts multi-core stranded copper and aluminum cables, single and multi-stranded wire up to 1/0 AWG
- Not suitable for steel wire and hard drawn copper conductors
- Easy cutting with one-hand operation
- Adjustable bolted joint provides precise and smooth cutting
- Pinch guard prevents operators' fingers being pinched
- High-grade special tool steel; forged, oil-hardened



KNIPEX #	Packaging	Description	↔ inch	Style	Cutting Capacity ⊕ Ø inch	AWG	Handles
95 11 160	X	StepCut Cable Shears	6 1/4	single jaw	9/16	1/0	plastic dipped

78 03 140

Electronic Super Knips® XL

For cutting soft wire and plastic zip ties

Ideal for cutting zip ties used to secure PV cables during installation. The Electronic Super Knips XL delivers a clean, smooth flush cut that eliminates sharp edges.

- Precisely ground and sharp cutting edges
- Approximately 20% lighter than conventional electronics pliers
- Opening spring with built-in opening limiter
- Joint with stainless steel rivet
- Great for general purpose cutting of wire, zip ties and electrical components
- Cutting edge hardness (approx. 54 HRC) for longer life and for more durable cutting
- Precision shaped tips also cut adjacent wires from 1/64" (0.20 mm) diameter
- Extremely smooth movement for minimum operator fatigue



KNIPEX #	Packaging	Description	↔ inch	Style	Handles
78 03 140	X	Electronics Super Knips XL	5 1/2	straight	multi-component

12 12 11

Automatic Wire Stripper

Photovoltaic stripping tool

Form-fit stripping of both standard and difficult-to-remove Photovoltaic (PV) cables.

- A second pair of blades hold 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 is made of steel
- Blade is made of special tool steel, oil-hardened



12 12 11 for 1.5 / 2.5 / 4 / 6 mm²

KNIPEX #	Packaging	Description	↔ inch	Stripping Capacities mm ²	Stripping Capacities AWG	Handles
12 12 11	—	Automatic Precision Insulation Wire Stripper	7 3/4	1.5 / 2.5 / 4 / 6	16 / 14 / 12 / 10	multi-component

16 95 03 SB

KNIPEX ErgoStrip® PV

Photovoltaic stripping tool

KNIPEX ErgoStrip PV has been specially optimized 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 4 and 6 mm² (12 and 10 AWG).

- Innovative pistol grip design for easy cutting, stripping and longitudinal cutting of the sheath
- Length stop for PV cables adjustable from 1/4" – 3/4" for repetitive stripping lengths, suitable for all standard solar connectors
- Conical, slimmed down tool ends for better access in confined areas
- Wire stripping for PVC single conductors with cross sections 0.2 / 0.3 / 0.8 / 1.5 / 2.5 / 4.0 mm²
- Easy to locate stripping holes when using one of the locating ridges
- Opening spring and locking device make the tool easy to open and secure



Adjustable length stop
from 1/4" to 3/4"



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



Conical tool ends
for better accessibility
in tight spaces

97 33 03

KNIPEX MultiCrimp®

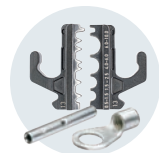
Crimping pliers with round magazine and crimping dies

The versatile 97 33 03 crimping pliers are ideal for PV systems in the KNIPEX MultiCrimp family. Includes a quick-change magazine equipped with three crimping dies for: MC4® / MC4® Evo 2, uninsulated cable connectors and wire ferrules.

- Just one tool for the most common crimping applications
- Crimping dies change quickly and easily without any additional tools
- For PV cables, grounding conductors and the wiring to the meter cabinet
- Consistently high crimping quality due to precision dies and forced locking mechanism (unlockable)
- Round magazine: plastic, fiberglass-reinforced
- *Crimping dies 97 49 XX of the crimping system pliers 97 43 200 are not compatible with the KNIPEX MultiCrimp 97 33 01/02/03*



Crimping die 97 39 08: Crimps insulated and uninsulated wire ferrules from 0.25 – 6 mm²



Crimping die 97 39 13: Crimps connections for uninsulated cable connectors from 0.5 – 10 mm²



Crimping die 97 39 42: Crimps connectors for PV conductors for MC4 and MC4 Evo 2 connectors for 4 and 6 mm² (12 and 10 AWG)



Additional dies are available
97 39 05/06/09

KNIPEX #	Packaging	Description	↔ inch	Handles
97 33 03	—	MultiCrimp PV Crimping Pliers	9 1/4	multi-component
97 33 LE	—	MultiCrimp Crimping Pliers with empty magazine (no dies included)	9 1/4	multi-component

97 52 42

KNIPEX PreciForce®

Crimping pliers for MC4 / MC4 Evo 2

- Repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- Crimping pressure is set precisely (calibrated) at the factory
- Capacity – 4 and 6 mm² (12 and 10 AWG)
- Chrome vanadium electric steel
- Crimping die is not exchangeable



KNIPEX #	Description	↔ inch	Crimp Style	Capacity		Handles
				mm ²	AWG	
97 52 42	PreciForce Crimping Pliers for MC4 / MC4 Evo 2	8 1/2	F crimp	4 / 6	12 / 10	multi-component

97 52 42 6

KNIPEX PreciForce

One tool cuts, strips and crimps 6 mm² (10 AWG) PV Cable for MC4 / MC4 Evo 2

- Repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- Crimping pressure is set precisely (calibrated) at the factory
- Capacity – 6 mm² (10 AWG)
- Chrome vanadium electric steel
- Crimping die is not exchangeable



KNIPEX #	Description	↔ inch	Crimp Style	Capacity		Handles
				mm ²	AWG	
97 52 42 6	PreciForce Crimping Pliers for MC4 / MC4 Evo 2	8 1/2	F crimp	6	10	multi-component

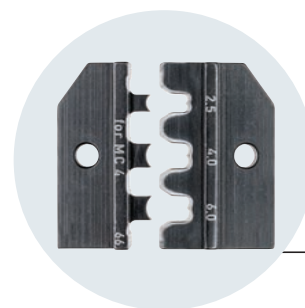
97 43 66

Crimp System Pliers

Perfect for MC4 / MC4 Evo 2

- Crimp system pliers with crimping capacity for MC4 / MC4 Evo 2 connectors 2.5, 4 and 6 mm² (14, 12 and 10 AWG)
- Parallel crimping die movement
- Repetitive, high crimping quality with precision dies and integral lock (self-releasing mechanism)
- For one and two-handed operation
- Includes crimping die 97 49 66
- Additional locators sold separately (97 49 66 1 for MC4 and 97 49 66 1 EVO for MC4 Evo 2)

See full specs and capabilities in the chart on page 10



Includes crimping die for MC4 / MC4 Evo 2 plug type connectors in 2.5, 4 and 6 mm² (14, 12 and 10 AWG)



**FOR MC4 / MC4
EVO 2 CONNECTORS**
2.5, 4 and 6 mm²
(14, 12, 10 AWG)



97 43 66 EVO Crimp System Pliers

Perfect for MC4 Evo 2

- Crimp system pliers with crimping capacity for MC4 Evo 2 connectors 4, 6 and 10 mm² (12, 10 and 8 AWG)
- Parallel crimping die movement
- Repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- Includes a MC4 Evo 2 locator for precise positioning

See full specs and capabilities in the chart on page 10



**FOR MC4 EVO 2
CONNECTORS**
4, 6, 10 mm²
(12, 10, 8 AWG)

Crimping die and locator
pre-assembled
for precise positioning

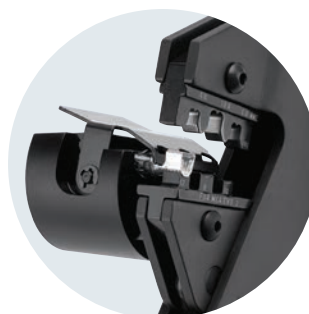


97 43 200 A Crimp System Pliers

For interchangeable crimping dies and locators

- Crimp system pliers – crimping dies and locators sold separately
- Just one tool for almost 1,000 crimping applications
- Parallel crimping die movement
- Repetitive, high crimping quality with 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

See chart for PV dies for this tool on page 10



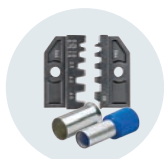
Numerous locators for precise positioning



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



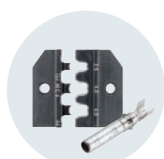
Crimps practically everything



wire ferrules



cable terminals and connectors



MC4 / MC4 Evo 2

Greater crimping precision with KNIPEX



Product finder for MC4 / MC4 Evo 2 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 KNIPEX PreciForce, KNIPEX MultiCrimp and the Crimp System Pliers with all dies and locators.

	KNIPEX #	Interchangeable Crimping Die	Crimping Die	Locator	Capacities		 Stäubli MC4	 Stäubli MC4 Evo 2
					mm ²	AWG	MC4	MC4 Evo 2
	97 52 42	n/a	n/a	n/a	4 / 6	12 / 10	✓	✓
	97 52 42 6	n/a	n/a	n/a	6	10	✓	✓
	97 33 03*		 97 39 42	n/a	4 / 6	12 / 10	✓	✓
	97 33 LE (no dies included)		Uses dies from 97 39 xx series	n/a	4 / 6	12 / 10	✓	✓
when using crimping die 97 39 42								
	97 43 66		 97 49 66	Without locator	2.5 / 4 / 6	14 / 12 / 10	✓	✓
				 97 49 66 1**			✓	
				 97 49 66 1 EVO**				✓
	97 43 66 EVO		 97 49 71	Locator included Not sold separately	4 / 6 / 10	12 / 10 / 8		✓
	97 43 200 A (tool only)		 97 49 66†	Without locator	2.5 / 4 / 6	14 / 12 / 10	✓	✓
				 97 49 66 1**			✓	
				 97 49 66 1 EVO**				✓
			 97 49 71†	Without locator	MC4 4 / 6 / 10 MC4 Evo 2 4 / 6	MC4 12 / 10 / 8 MC4 Evo 2 12 / 10	✓	✓
				 97 49 71 1**			✓	only 4 / 6 12 / 10

*Includes 2 additional dies for electrical applications; 97 39 08 and 97 39 13

**Locators sold separately

†Die sold separately

97 49 66 2 SBA 2-Piece Assembly Tool Set

For PV plug type MC4 connectors

- For installation, maintenance or replacement of individual cables, this set is the quick and convenient way to close and reopen MC4 housings
- Tightens the housing screw connector and unlocks the plug connection
- Not suitable for MC4 Evo 2



97 49 66 3 SBA Assembly Tool

For MC4 / MC4 Evo 2 PV Connectors

- For installation, maintenance or replacement of individual cables, this set is the quick and convenient way to close and reopen MC4 / MC4 Evo 2 housings
- Tightens the housing screw connector and unlocks the plug connection
- Set of two assembly tools with integrated magnets ensure that the two halves are held firmly together in a compact design
- Integrated tether attachment point for use with KNIPEX Tethered Tools System



9K 00 80 190 US 4-Piece Solar Tool Set

Innovative set for your solar needs

- **97 49 66 3 SBA** - Assembly Tool for MC4 / MC4 Evo 2 – quick and convenient way to close and reopen MC4 / MC4 Evo 2 housings
- **16 95 03 SB** - KNIPEX ErgoStrip PV – strips weather-resistant and tough PV cables 4 and 6 mm² and all standard round and moisture-resistant cables
- **95 11 160** - 6 1/4" StepCut Cable Shears – innovative step cutting, separates and cuts wire one by one
- **97 52 42** - 8 1/2" KNIPEX PreciForce Crimping Pliers – for MC4 and MC4 Evo2 connectors





MORE TOOLS FOR FOR SOLAR INSTALLERS

Cobra® Water Pump Pliers

	KNIPEX #	Packaging	↔ inch	Handles
	87 00 100	X	4	texturized
	87 01 180	X	7 1/4	non-slip plastic
	87 01 250	X	10	non-slip plastic

Pliers Wrenches

	KNIPEX #	Packaging	↔ inch	Handles
	86 04 100	X	4	texturized
	86 01 180	X	7 1/4	non-slip plastic
	86 03 180	X	7 1/4	plastic dipped

TwinGrip Pliers

	KNIPEX #	Packaging	↔ inch	Handles
	82 02 200	X	7 1/4	KNIPEXTEND comfort handles

Long Nose Pliers

	KNIPEX #	Packaging	↔ inch	Handles
	26 11 200	X	8	plastic dipped
	26 12 200	X	8	KNIPEXTEND comfort handles
	26 26 200	X	8	1000V insulated, VDE

High Leverage Lineman's Pliers

	KNIPEX #	Packaging	↔ inch	Handles
	09 01 240	X	9 1/2	plastic dipped

Forged Wire Strippers

	KNIPEX #	Packaging	↔ inch	Handles
	13 71 8	X	8	plastic dipped
	13 72 8	X	8	KNIPEXTEND comfort handles
	13 78 8 SBA	X	8	1000V insulated, ASTM

High Leverage Diagonal Cutters

	KNIPEX #	Packaging	↔ inch	Handles
	74 01 180	X	7 1/4	plastic dipped
	74 01 200	X	8	plastic dipped

StepCut Cable Shears

	KNIPEX #	Packaging	↔ inch	Handles
	95 11 160	X	6 1/4	plastic dipped
	95 18 160 US	X	6 1/4	1000V insulated, ASTM
	95 12 225	X	9	KNIPEXTEND comfort handles
	95 18 225 US	X	9	1000V insulated, ASTM



MORE TOOLS FOR FOR SOLAR INSTALLERS

Shears

	KNIPEX #	Packaging	↔ inch	Handles
	95 05 20 US	—	6 1/4	multi-component, fiberglass reinforced plastic
	95 05 155 SBA	X	6 1/4	multi-component, fiberglass reinforced plastic

Screwdrivers

	KNIPEX #	Tip Type	Handles
	98 20 25	⊖	1000V insulated, VDE
	98 24 02	⊕	1000V insulated, VDE

CutiX Universal Snap Knife

	KNIPEX #	Packaging	↔ inch	Housing
	90 10 165 BKA	X	6 1/2	magnesium

Flat Nose Plastic Pliers

	KNIPEX #	Packaging	↔ inch	Handles
	98 62 01	X	7	1000V insulated, VDE

Knives

	KNIPEX #	Packaging	↔ inch	Handles
	98 55	X	7 1/2	1000V insulated, VDE
	16 20 50 SB	X	7 3/4 (open)	multi-component

Long Nose Plastic Pliers

	KNIPEX #	Packaging	↔ inch	Handles
	98 62 02	X	8 3/4	1000V insulated, VDE

ComStrip Wire Stripper

	KNIPEX #	Packaging	↔ inch	Handles
	12 62 180	X	7 1/4	plastic





Meet KNIPEX

KNIPEX concentrates its efforts on being the best pliers manufacturer in terms of quality, innovation and efficiency and its pliers satisfy the highest expectations in terms of performance, ergonomics and service life.



- > Made in Germany since 1882
- > One of the largest manufacturers worldwide of professional pliers
- > 4th Generation, family-owned
- > Over 1,500 styles & sizes of pliers
- > Serving the automotive, electrical, HVAC, plumbing, construction, cycling, aviation, solar industries and more
- > High-quality steel, German engineering, continuous innovation

Cutting Symbols



Cu + Al multi-conductor cable, solid and multi-stranded

KNIPEXTEND

TetheredTool Clips

ColorCoded Clips



Scan QR code for more information



For more information and warnings on our 1000V Insulated Tools visit <https://www.knipex-tools.com/insulated>

Packaging column denotes when a tool is available in retail packaging that can be hung on a hook.
Please note that some tools may require a suffix to order the packaged model.

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