

SOLAR TOOLS CATALOG

CUTTING

KNIPEX

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

KNIPEX®

78 03 150 / 78 61 150 / 78 09 LE
Slim Knips

Compact storage, always ready

Manage zip ties without changing tools – convenient tightening, flush cutting and wider blade opening for cutting.

- Unique slim design is able to reach into tighter areas compared to current 78 series
- Asymmetrical handle design allows user to grip with just a finger and thumb for better control when cutting in hard to reach areas
- For cutting **stranded wire only** up to 12 AWG and plastic zip ties up to 1/4" wide
- Blue slide lock keeps the tool secure when not in use
- To provide tension on zip ties, open handles and slide the lock forward to engage the handle stop preventing the blades from closing completely
- Opening spring with built-in opening limiter for comfortable and repetitive use
- Integrated tether attachment point for tool drop protection system



KNIPEX #	Packaging	Description	↔ inch
78 03 150 SBA	X	INOX Stainless Steel Slim Knips	6
78 03 150 V01 SBA	X	INOX Stainless Steel Slim Knips with Tool Holster	6 1/4
78 61 150 SBA	X	Burnished Slim Knips	6
78 61 150 V01 SBA	X	Burnished Slim Knips with Tool Holster	6 1/4
78 09 LE	X	Tool Holster empty	4

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
- Precision shaped tips also cut adjacent wires from 1/64" (0.20 mm) diameter



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 mm²	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

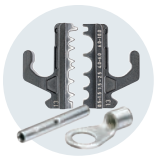
The versatile 97 33 03 crimping pliers are ideal for PV systems in the KNIPEX MultiCrimp family. Includes a quick-change magazine equipped with three crimping dies for: MC4® / MC4® Evo 2, uninsulated cable connectors and wire ferrules.



- 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 mm²	Capacity AWG	Handles
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



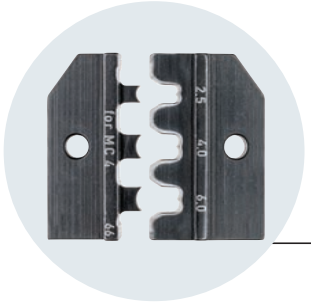
KNIPEX #	Description	↔ inch	Crimp Style	Capacity mm²	Capacity AWG	Handles
97 52 42 6	PreciForce Crimping Pliers for MC4 / MC4 Evo 2	8 1/2	F crimp	6	10	multi-component

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)

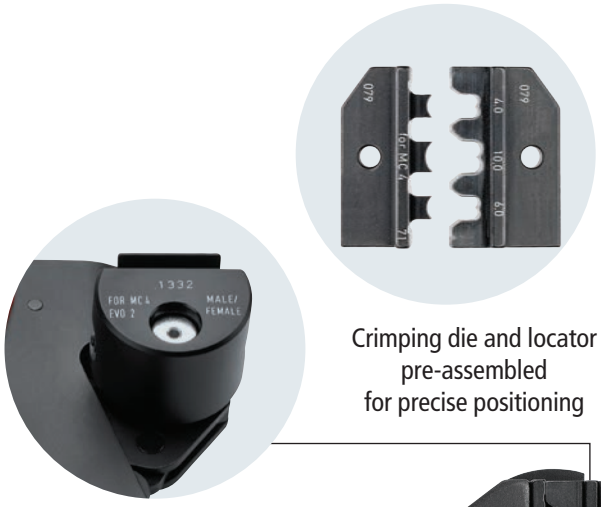


97 43 66 EVO
Crimp System Pliers

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



Crimping die and locator pre-assembled for precise positioning



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

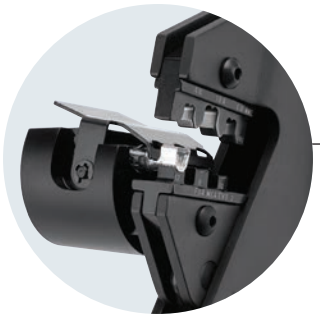


97 43 200 A
Crimp System Pliers

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



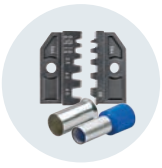
Numerous locators for precise positioning





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	Stäubli
					mm²	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







SET

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
 ∡40°	**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

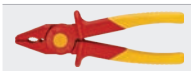
Screwdrivers

	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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KTLPRS0826
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