

Photovoltaics

Shaping the future with
solar tools from CIMCO



SICHER SEIT 1827.

Reliable tools for clean energy

Providing the right tools for
the energy transition

Having safe and reliable tools to use is essential when installing photovoltaic systems. We support the professionals who are busy working on the energy transition for all our sakes by supplying them with the very latest solar tools, which have been subjected to stringent testing and which we are constantly developing. Tools tailored to the particular challenges that arise when working on roofs. So nothing bad ever goes down up there.

We are a member of



zvei

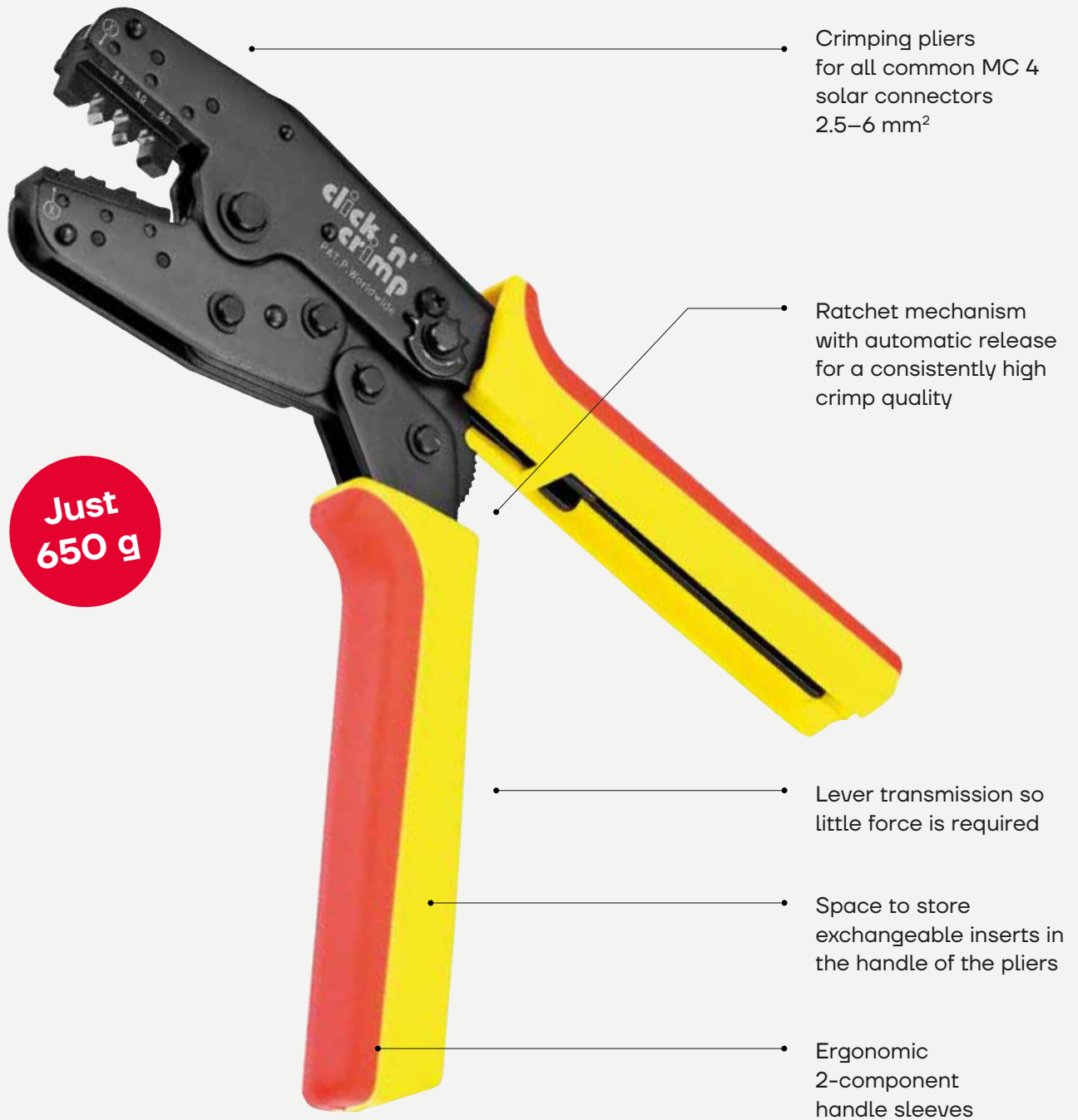
FWI





PV MC 4 click 'n' crimp

with exchangeable insert



**Just
650 g**

Crimping pliers
for all common MC 4
solar connectors
2.5–6 mm²

Ratchet mechanism
with automatic release
for a consistently high
crimp quality

Lever transmission so
little force is required

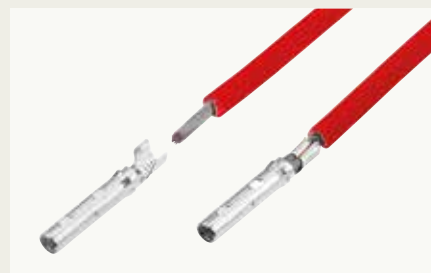
Space to store
exchangeable inserts in
the handle of the pliers

Ergonomic
2-component
handle sleeves

Item no.
10 6034



**Consistently
pristine crimp
quality**



Wave belt bag

with swivel function

HIGHLIGHT

Integrated swivel function

Stays level no matter how you move – perfect for the photovoltaics sector and working on roofs



Practical

With belt clip

Weatherproof

Can withstand all weather conditions

Space saver

Numerous pockets and loops

Item no.
17 0476

↳ Always to hand

The most important tools together in a practical set.

AS A SET

Weight
1,260 g

Item no.
17 0475



SET 1

↳ Solar belt bag

| | |
|--|---------|
| • WAVE belt bag | 17 0476 |
| • PV MC 4 click 'n' crimp | 10 6034 |
| • DUOCUT cable shears | 12 0108 |
| • PV-STRIP insulation stripper | 12 0047 |
| • Photovoltaic-MC 4 unlocking tool | 18 0004 |
| • Cable ties, resistant to UV and cold | 18 1722 |

AS A SET

Weight
1,250 g

Item no.
17 0477



SET 2

↳ Solar SK belt bag

| | |
|--|---------|
| • WAVE belt bag | 17 0476 |
| • PV MC 4 click 'n' crimp | 10 6034 |
| • SOLAR wire stripper | 10 0774 |
| • Photovoltaic-MC 4 unlocking tool | 18 0004 |
| • Cable ties, resistant to UV and cold | 18 1722 |

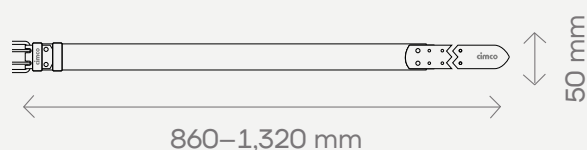
Item no.
17 0680

TIP



Tip

↳ Leather/fabric belt



Solar tools

for a reliable installation

Photovoltaic systems on roofs or in large solar arrays are becoming more and more important for powering the energy transition. To keep this process going or even speed it up, we need tradespeople with reliable tools who can build and maintain these complex systems professionally.



Length stop 8.5 and 15 mm, for connecting common PV plugs



Clean and reliable cutting of fine-stranded conductors



Precise, fine, 5-fold adjustment (can even strip the multi-layered insulation on solar cables)

↳ Perfectly equipped

The most important insulation stripping tools at a glance

Item no.
10 0774



Ergonomic, automatic

↳ Automatic wire stripper

- For all common solar cables, 1.5–6 mm²
- Precise, fine, 5-fold adjustment (can even strip the multi-layered insulation on solar cables)
- Optical length measurement from 8 to 24 mm, 5/16" to 1"
- Integrated diagonal pliers for cables up to max. 3 mm ø

NEW

Item no.
12 0047



Compact, manual, small

↳ PV-Strip insulation stripper

- For PV cables, power cables and safety cables from 2.5 to 6 mm²
- Length stop 8.5 and 15 mm, for connecting common PV plugs
- No need to adjust the blades to the cut depth
- With fixing clip

Item no.
12 0108



Versatile

↳ 1,000 V VDE DUOCUT cable shears

- Cable shears for copper and aluminium cables
- Large blade for sheathed cables up to max. 10 mm ø
- Small blade for individual wires up to max. 4 mm ø
- VDE/GS approved, according to IEC 60900 and VDE 0682/Part 201
- Longitudinal cut possible



Cables fastened on metal edges

for a professional solution

Item no.
18 1825



Can be turned 90° and used in that position

↳ **Clip-in cable tie with fixing clip**

- Clamping range 1–3 mm, bundle diameter 4–45 mm
- Cable tie can be inserted in the clip in the longitudinal or transverse direction
- 4.6 x 200 mm
- Material: PA 6.6, UV-stabilised
- PU: 100 pieces
- Colour: black

TIPS



Weather-resistant for flexible use



Fasten quickly and without the need for tools



Cables not damaged on sharp edges



Reliable connections made to last ↳ Photovoltaic connector system

- Compatible with the MC 4 market standard and fits all common solar cables from 2.5 to 6 mm²
- Consists of a plug and socket connection system incl. plastic housing

Technical data

| | |
|---|---|
| Temperature range: | -40°C/+85°C |
| Current carrying capacity: | 30 A (4 mm ² , 6 mm ²) |
| Contact resistance of connector system: | 5 mΩ |
| Ø of connector contact: | 4 mm |
| Contact material: | Copper, silver-plated |
| Voltage range: | 1,000 V |
| Insulation material: | PC/PA |
| Protection class: | IP 67 |
| Safety class: | II |
| Certification: | TÜV |

| Version | PU | Item no. |
|-------------------|-----|----------|
| Male + female set | 1 | 18 8010 |
| Male + female set | 10 | 18 8000 |
| Male + female set | 100 | 18 0000 |
| Male | 1 | 18 0001 |
| Female | 1 | 18 0002 |



Matching product:
Unlocking tool

See page 18

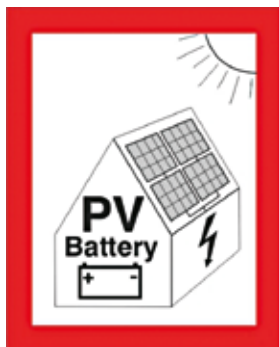


Avoid risks caused by weather ↳ Cable ties, UV-resistant

- UV-resistant cable ties made from PA 6.6 with a service life up to ten times longer than standard
- Resistant to cold down to -40°C, ideal for use outdoors, e.g. when installing photovoltaics
- Self-extinguishing, flammability class UL 94 V-2
- Temperature resistance from -40°C to +85°C
- PU: 100 pieces

| W x L mm | Cable harness Ø | Minimal tensile strength N | Item no. |
|-----------|-----------------|----------------------------|----------|
| 3.5 x 140 | 3-36 | 150 | 18 1720 |
| 4.5 x 200 | 3-51 | 220 | 18 1722 |
| 4.5 x 280 | 5-76 | 220 | 18 1723 |
| 4.5 x 360 | 5-101 | 220 | 18 1724 |
| 7.5 x 360 | 5-101 | 460 | 18 1726 |

Plugs + accessories



1

Version

1 Indicates a PV system with battery storage

2 Indicates a PV system



2

Item no.

18 2798

18 2799

For protecting workers in the event of fire

↳ Fire safety notices

- Film, self-adhesive, W 105 x H 148 mm
- White/Signal red (RAL 3001)
- DIN 4066, VDE AR 2100-712

PV systems on the top or side of buildings are not always identifiable at first glance. Current-carrying parts can be fatal to workers in the event of a fire.

Information signs on PV systems in accordance with DIN 4066 make people safer and should be attached in an easily visible and safe location near to the main access area.



Version

2023

Item no.

18 2701

For efficient operation

↳ PV inspection sticker

- “Geprüft PV-Anlage nach VDE” (PV system tested acc. to VDE)
- Standard film, yellow
- Diameter: 30 mm
- Book of 108 labels

How often does a PV system need to be maintained?

It is recommended to have a photovoltaic system maintained regularly by a specialist company.

The general operating condition should be continuously monitored remotely.

A periodic inspection should be conducted every one to four years, depending on the location, structural conditions or effects of the weather (see DIN VDE 0105-100 and DIN EN 62446-1 (VDE 0126-23-1).

Insurance companies frequently stipulate in their terms and conditions that annual visual inspections and other periodic inspections must be carried out.

Item no.
21 1563



Rubberised housing + protective cover
↳ **Digital tape measure FVP-30**

- Measurement range up to 30 m, accuracy 2 mm/m
- LCD, backlit
- Distance measurement, planimetry, volume measurement or indirect measurement
- Memory, auto-off
- Laser class II

Item no.
11 1438



Including load connection
↳ **AC/DC voltage tester**
1,000 V AC/1,500 V DC, with FI/RCD trigger and LED/LCD display

- Resistance measurement (1 to 1,999 Ω)
- Single-pole, phase sequence and continuity test
- Automatic polarity detection
- Frequency range 40–400 Hz
- CAT III 1,000 V, CAT IV 600 V
- TÜV/GS

AS A SET



Item no.
10 4041

The basics for every electrician
↳ **VDE universal electrician set**

| | |
|--|---------|
| Diagonal pliers, 160 mm | 10 0574 |
| Slot-head screwdriver 3.0 x 0.5 x 100 | 11 7702 |
| Slot-head screwdriver 4.0 x 0.8 x 100 | 11 7704 |
| Special screwdriver with combination profile PZ FL 1 | 11 7751 |
| Special screwdriver with combination profile PZ FL 2 | 11 7752 |
| Tool case | 17 0625 |

The universal crimping tool
for various applications.

click 'n' crimp System



click 'n' crimp sets

↳ With crimping profile inserts

SET 1 Electrical engineering

Crimping profile inserts:

10 6010, 10 6011, 10 6012

Item no.
10 6000

SET 2 Automotive

Crimping profile inserts:

10 6010, 10 6011, 10 6013

Item no.
10 6002

SET 3 Data network technology

Crimping profile inserts:

10 6015, 10 6017, 10 6019

Item no.
10 6009

SET 4 Solar technology

Crimping profile inserts:

10 6010, 10 6027, 10 6028

Item no.
10 6052

- ✓ Exchangeable inserts available
- ✓ Inserts changed without needing tools
- ✓ Space for up to 2 inserts in the handle of the pliers

↳ click 'n' crimp crimping profile inserts

| | Designation | | Cross section | Item no. | |
|------------|---|---|---|--|-------------------------------|
| IS | Insulated connectors (red/blue/yellow) |  |  | 0.5–6 mm ² | 10 6010 |
| R | Tubular cable lugs |  |  | 0.5–10 mm ² | 10 6011 |
| Q | Crimping cable lugs |  |  | 0.5–10 mm ² | 10 6011 |
| AE | Wire end ferrules |  |  | 0.5–10 mm ² 16–35 mm ² 25 and 50 mm ² | 10 6012 10 6014 10 6071 |
| PV | PV photovoltaics |  |  | MC 3 cross section: 2.5–6 mm ² MC 4 cross section: 2.5–6 mm ² | 10 6027 10 6028 |
| FL | Uninsulated blade terminals |  |  | 0.5–6 mm ² | 10 6013 |
| BNC | BNC/TNC coax |  |  | RG58, RG59, RG62AU, RG174 | 10 6015 |
| NW | Network |  |  | RJ11, RJ12 (SS, AMP) RJ45 (SS, AMP) RJ45 (CAT5) | 10 6016 10 6017 10 6019 |

Steel cable ties

for extreme demands

Ideal for use where extreme demands must be met, e.g. in machine and vehicle construction, signalling systems, shipbuilding, mining, the food and chemicals industries, power plants, subways, buildings, switch cabinets, on oil rigs



Unshakeable strength guaranteed.

↳ **Stainless steel cable ties***

- Cable ties made from AISI 316 stainless steel (DIN 1.4401), with ball lock
- Resistant to corrosion and radiation, anti-magnetic
- Resistant to aggressive chemicals
- Steel thickness:
0.26 mm (width 4.6/7.9 mm)
0.32 mm (width 12 mm)
- Black version:
Coated with polyester, UV-stabilised and halogen-free
- Temperature resistance:
-80°C to +538°C (natural)
-80°C to +538/150°C (black, steel/polyester)
- Certification: UL, DNV, LR



Versions*

| Width mm | Length mm | Max. cable harness ø | Minimal tensile strength N | PU | Item no. (uncoated) | Item no. (coated black) |
|----------|-----------|----------------------|----------------------------|-----|---------------------|-------------------------|
| 4.6 | 100 | 20 | 550 | 100 | 18 6000 | 18 6100 |
| | 125 | 27 | | 100 | 18 6001 | 18 6101 |
| | 150 | 44 | | 100 | 18 6002 | 18 6102 |
| | 200 | 50 | | 100 | 18 6003 | 18 6103 |
| | 290 | 75 | | 100 | 18 6004 | 18 6104 |
| | 360 | 102 | | 100 | 18 6005 | 18 6105 |
| | 520 | 152 | | 25 | 18 6006 | 18 6106 |
| 7.9 | 200 | 50 | 1,200 | 100 | 18 6010 | 18 6110 |
| | 290 | 75 | | 100 | 18 6011 | 18 6111 |
| | 360 | 102 | | 100 | 18 6012 | 18 6112 |
| | 520 | 152 | | 25 | 18 6013 | 18 6113 |
| | 680 | 203 | | 50 | 18 6014 | 18 6114 |
| | 840 | 254 | | 25 | 18 6015 | 18 6115 |
| | 1,000 | 318 | | 25 | 18 6016 | 18 6116 |
| 12.0 | 290 | 75 | 2,200 | 25 | 18 6020 | 18 6120 |
| | 360 | 102 | | 25 | 18 6021 | 18 6121 |
| | 520 | 152 | | 25 | 18 6022 | 18 6122 |
| | 680 | 203 | | 25 | 18 6023 | 18 6123 |
| | 840 | 254 | | 25 | 18 6024 | 18 6124 |
| | 1,000 | 318 | | 25 | 18 6025 | 18 6125 |

* Other versions are available in the CIMCO range.



Top quality

↳ **“Skinny Soft” work gloves**

- Nylon gloves with knitted cuff + PU coating
- Part-coated on palm and fingertips
- Very close-fitting
- Colour: grey

| Size | PU | Item no. |
|--------|----|----------|
| 8/M | 1 | 14 1248 |
| 9/L | 1 | 14 1260 |
| 10/XL | 1 | 14 1261 |
| 11/XXL | 1 | 14 1262 |

Item no.
18 0004



For releasing plug connections

↳ **MC 4 photovoltaics unlocking tool**

Unlocking tool for releasing the plug connection of photovoltaic connectors.



For an extra-strong grip
and dextrous working.

Skinny Soft



Sicher seit 1827.



cimco

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