

## Crimping

Crimping pliers for Terminals, Connectors, Modular plugs,  
Mechanical crimping tools



## INFO

### Crimping pliers for end sleeves

When crimping end sleeves a distinction is made between sleeves with and without plastic collars and between trapezoid and square crimping.

The sleeves with a plastic collar make it easier to insert individual stranded wires. The coloured marking on the wire end sleeves is used to classify the cross section.

Pliers with a square crimp ensure better contact in the terminal strip. The square crimp also facilitates alignment and assembly, as clamps can be attached to each of the surfaces.

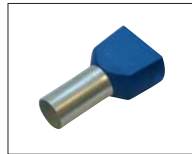
insulated end sleeves



for short-circuit-proof cables



TWIN



tin-plated



bare



### Crimping pliers

for end sleeves, dull chrome plated, **cross crimping**



Art. No.	length	crimp	weight	PU
21 08 20	140	0.25 - 2.5	120	6
21 08 24	220	0.75 - 16	200	6
21 08 26	225	10 - 35	240	6

### Crimping pliers

light construction, 20% angled handy form, with locking device, with adjustable crimp pressure, **trapezoid crimping**



Art. No.	crimp	weight	PU
21 16 50	0.14 - 2.5	355	1
21 08 41	0.25 - 6	355	1
21 16 52	6 - 16	355	1

### Crimping pliers

heavy construction, with locking device, with adjustable crimp pressure, chrome plated, **trapezoid crimping**



Art. No.	crimp	weight	PU
21 07 63	0.5 - 4	500	1
21 08 42	1 - 10	540	1
21 07 65	6 - 16	500	1
21 16 72	10 - 25	500	1
21 07 68	10 - 35	450	1
21 16 74	25 - 50	600	1

### Crimping pliers for twin end sleeves

heavy construction, with locking device, with adjustable crimp pressure, chrome plated, **trapezoid crimping**



Art. No.	crimp	weight	PU
21 16 76	2 x 0.5/2 x 0,75/2 x 1		
(for TWIN-end sleeves)	2 x 1.5/2 x 2,5/2 x 4/2 x 6	520	1
21 16 78	2 x 6		
(for TWIN-end sleeves)	2 x 10		
	2 x 16	550	1

### Crimping pliers

precise square crimping profile, automatic adjustment on wire diameter, with locking device, guaranteed DIN-crimp-connections, high transmission and ergonomically formed plastic handle, **square shape**



Art. No.	crimp	weight	PU
21 08 04	0.08 - 10.0	980	1

### Front-Crimping pliers

Crimping from 0.08 to 10 mm<sup>2</sup>, precise square crimping profile, automatic adjustment on wire diameter, frontal approach allows working in small areas, sidewise approach for end sleeves up to 2.5 mm<sup>2</sup>, with locking device, high transmission and ergonomically formed plastic handle, **square shape**

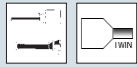


Art. No.	crimp	weight	PU
21 08 19	0.08 - 10	500	1

### Front-Crimping pliers



automatic adjustment of crimp-profile, with locking device, with adjustable crimp pressure, **trapezoid crimping**



Art. No.	crimp	weight	PU
21 09 79	0.14 - 6	500	1
21 09 79/A	2.5 - 10	500	1
21 09 79/B	10 - 16	500	1

### Quadro with magazine

Integration of four functions for precise crimping of connector sleeves from tapes, 0.5 - 2.5 mm Ø.

- Insulation stripping: 0.5 - 2.5 mm Ø
- Twisting: 0.5 - 2.5 mm Ø
- Cutting: cables and cords 0.5 - 2.5 mm Ø
- Crimping: 0.5 - 2.5 mm Ø



Art. No.	Ø mm²	length	weight	PU
21 06 82/1	0.5 - 2.5	170	217	1

### Magazine for Quadro

The quick-change connector sleeve magazine helps to speed up work



Art. No.	weight	PU
21 06 82/2	5	1

### Box for end sleeve strips

Box for end sleeve strips, for interchanging the magazine within seconds

Art. No.	weight	PU
21 06 82/3	10	1

### Quadro complete set in case

in case



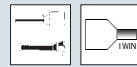
Art. No.	Contents	weight	PU
21 06 82	1 „Quadro“-plier incl. magazine 2 spare magazines Box for end sleeve strips	400	1

**A wide range of end sleeves  
can be found starting at Page 50**

### Crimping pliers



extra long handles, with locking device, **trapezoid crimping**

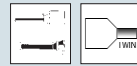


Art. No.	crimp	weight	PU
21 07 88	10 - 50	800	1
TWIN end sleeves	2 x 4 - 2 x 16		

### Crimping pliers



extra long handles, with locking device, **trapezoid crimping**

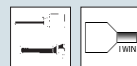


Art. No.	crimp	weight	PU
21 07 89	50 - 95	800	1

### HAUPA Pneumatic Crimpers

**Pneumatic crimpers crimp wire end sleeves quickly and without effort.**

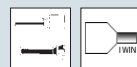
Table top versions are actuated by a foot switch, allowing the operator to use both hands. The Pneumatic Crimpers are lightweight and easy to use. The crimping mechanism is easily activated, making it perfectly suited for work in control cabinets and electrical equipment. These tools are maintenance free - they require no routine calibration - only 60 - 90 psi to allow proper operation



Art. No.	crimp	Ø mm	weight	PU
21 70 30	0.25-2.5 mm²/24-14 AWG	44 x 200	400	1
21 70 40	4-10 mm²/12-8 AWG	44 x 200	400	1

Incl. spiral hose 2 m

### HAUPA Pneumatic crimpes table top versions



Art. No.	crimp	Ø mm	weight	PU
21 70 10	0.25-2.5 mm²/24-14 AWG	140 x 200 x 70	1000	1
21 70 20	4-10 mm²/12-8 AWG	140 x 200 x 70	1000	1

Incl. spiral hose, foot switch and table clamp

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## INFO

### Crimping pliers for insulated crimp cable lugs

Insulated cable lugs and crimp cable lugs are crimped in an oval form.

The coloured marking of the wire cross section to the insulated cable lug is defined in DIN 46245, Parts 1, 2 and 3.

- Red => stands for 0.5 to 1 mm<sup>2</sup>
- Blue => stands for >1.5 to 2.5 mm<sup>2</sup>
- Yellow => stands for >2.5 to 6 mm<sup>2</sup>

As the cable lug is rolled from a metal sheet, attention should be paid to the position of the butted edge. It should be in the middle of the top profile. If it is on the side, the edge opens up and the wire is not gastight or adequately clamped.

#### Butted edge



#### Ring terminals



#### Fork terminals



#### Round terminals



#### Flat terminals



#### Socket sleeves (female)



#### Round sleeves



#### Round pins



#### Socket sleeves (male)



#### Butt connectors



#### Parallel connectors



#### End connectors



### Crimping pliers

light construction, 20% angled handy form, with locking device, with adjustable crimp pressure, **oval crimping**



Art. No.	crimp	weight	PU
21 08 45	0.25 - 2.5	355	1

### Crimping pliers

heavy construction, with locking device, with adjustable crimp pressure, chrome plated, **oval crimping**



Art. No.	crimp	weight	PU
21 07 61	0.5 - 6.0	500	1

### Crimping pliers

heavy construction, with locking device, extra long handles, **oval crimping**



Art. No.	crimp	weight	PU
21 08 27	10/16	450	1

### Crimping pliers

for insulated crimping terminals with wire-and bolt-cutters and wire stripper with threaded bolt-cutter, **oval crimping**



Art. No.	crimp	weight	PU
21 08 02	0.5 - 6	200	1
	stripping 0.75 - 6		

### Combi-Crimping pliers

for insulated and uninsulated tube terminals and connectors from 0.5 - 6 mm<sup>2</sup>, C 45, cutting edges induction hardened, with wire-and bolt-cutters and wire stripper with threaded bolt-cutter



Art. No.	crimp	weight	PU
21 08 08	0.5 - 6	215	1
	stripping 0.75 - 6		

## Crimping pliers for uninsulated terminals

### INFO

#### Crimping pliers for uninsulated terminals

Important when crimping uninsulated terminals and butt space connectors: Uninsulated crimping terminals are pressed together by means of so-called piercing compression. The crimp sleeve is compressed in the middle. The pressing ram should be set to the separating seam of the sleeve.

Crimping terminals  
Ring type



Crimping terminals  
Fork type



Crimping terminals  
Pin type



Crimping terminals  
Butt connectors



Crimping terminals  
Parallel connectors



#### Crimping pliers

light construction, 20% angled handy form, with locking device, with adjustable crimp pressure, **mandrel shape crimping**



Art. No.	crimp	weight	PU
21 07 78	0.25 - 2.5	345	1
21 07 79	1.25 - 6	345	1

#### Crimping pliers

heavy construction, with locking device, with adjustable crimp pressure, chrome plated, **mandrel shape crimping**



Art. No.	crimp	weight	PU
21 07 64	1.5 - 10	450	1

#### Crimping pliers

Crimp-grip-pliers, one hand use, with cutting device, **mandrel shape crimping**



Art. No.	crimp	weight	PU
21 08 10	0.1 - 10	490	1

#### Crimping pliers

with locking device, with pressed handles, **mandrel shape crimping**



Art. No.	crimp	weight	PU
21 07 72	1-2.5-4 to 6-10	600	1
21 07 74	1 to 2-6-10-16	600	1

#### Crimping pliers

with forced interlock, with long legs for greater level transmission and force transfer, with piercing press, terminals to DIN 46234, connectors to DIN 46341, **mandrel shape crimping**



Art. No.	crimp	weight	PU
21 07 99	0.5 - 16	600	1

A wide range of terminals  
can be found starting at Page 74

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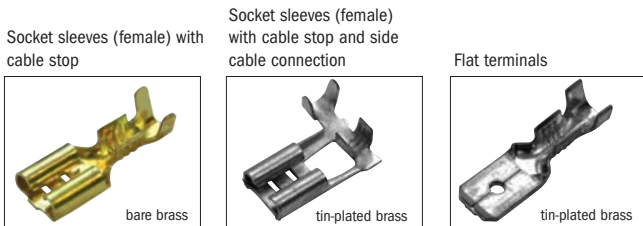
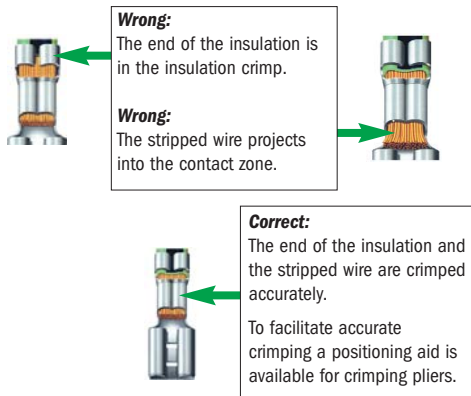
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## INFO

### Crimping pliers for uninsulated open brass cable lugs

We distinguish between wire crimps and insulation crimps. The end of the wire should be flush with the wire crimp or extend beyond it no further than 1 mm, so that the plug function is not affected. The insulation end must not project into the wire crimp, however it must also not lie just half beneath the insulation crimp. Only in this way can a standard-compliant crimp be ensured. In a good crimp the wire must be deformed. In this case one talks of a "gastight crimp". To ensure precise crimping of open plug-in connections, locators can be attached to the pliers.



- Precision-ground crimp profiles => clean crimp
- 20% angled format => easy to use
- Adjustable crimping pressure => Wear compensation via adjusting screw
- Forced block, unblockable => guaranteed DIN-compliant crimped connection
- Ergonomically formed plastic handles => low fatigue work



### Crimping pliers

light construction, 20% angled handy form, with locking device, with adjustable crimp pressure, 211664/66/68 with Locator, **roll crimping**



Art. No.	crimp		weight	PU
21 07 77	0.5 - 1.5		450	1
21 16 64	0.5 - 2.5	with Locator (4.8/6.3 mm)	470	1
21 16 66	0.1 - 1.0	with Locator (2.8 mm)	470	1
21 16 68	0.14 - 1.5	with Locator (4.8 mm)	470	1

### Crimping pliers

heavy construction, with locking device, with adjustable crimp pressure, chrome plated, **roll crimping**



Art. No.	crimp		weight	PU
21 16 82	0.14 - 2.5		500	1
21 07 62	0.25 - 6.0		500	1
21 16 84	Locator 6.3 mm (positioning help)		20	1
21 16 86	Locator 4.8 and 2.8 mm (positioning help)		20	1

### Crimping pliers

heavy construction, with locking device, with adjustable crimp pressure, chrome plated, **roll crimping**



Art. No.	crimp	weight	PU
21 07 85	0.5 - 1.0	500	1
21 07 86	1.5 - 2.5	500	1

### Crimp-Grip pliers

with final-point for processing of uninsulated terminals blades of 0.05 - 6 mm<sup>2</sup>, one way process for contact- and isolation-crimping, with cable cutter and wire stripping device for wire up to 6 mm<sup>2</sup>, **roll crimping**



Art. No.	crimp	weight	PU
21 08 33	0.5 - 6	500	1

**A wide range of terminals can be found starting at Page 68**

## Crimping pliers for coaxial connections

### Crimping pliers for coax-connections



light construction, 20% angled handy form, with locking device, with adjustable crimp pressure, **hexagon crimping**



Art. No.	crimp	weight	PU
21 08 49	RG 58-59-62-71	535	1

### Crimping pliers for coax-connections



heavy construction, with locking device, with adjustable crimp pressure, chrome plated, **hexagon crimping**



Art. No.	crimp	weight	PU
21 07 67	RG 58-59-62-6	500	1
21 16 80	RG 55-58-59-62	450	1

## INFO

### Crimping pliers for contacts and connectors

**D-Sub plugs** are open plug-in connectors that are connected with the wire via a rolling crimp. D-Sub plugs are used in modern office and communication technology.

**Rolled contacts** are open plug-in connectors that are connected with the wire via a rolling crimp. It is important to choose the correct plug for the cross section of the wire. No single wire may project from the crimp.

**Twisted contacts** are used to connect computer interfaces, power and control wires in multi-pole plug-in connections and flexible assembly lines in the automotive industry.

### Crimping pliers



light construction, for twisted contacts, 20% angled handy form, with locking device, with adjustable crimp pressure, **square crimping**

twisted contacts



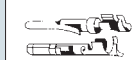
Art. No.	crimp	weight	PU
21 16 56	0.14 - 4	350	1
21 16 58	1.5 - 6	350	1

### Crimping pliers



light construction, for rolled contacts, 20% angled handy form, with locking device, with adjustable crimp pressure, **roll crimping**

rolled contacts



Art. No.	crimp	weight	PU
21 16 60	0.14 - 1.5	350	1

### Crimping pliers



light construction, for D-Sub-connectors, 20% angled handy form, with locking device, with adjustable crimp pressure, **roll crimping**

D-Sub-connectors



Art. No.	crimp	weight	PU
21 16 62	0.08 - 0.5	320	1

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# INFO

## Crimping pliers for modular plugs

Stripping and crimping in one step. The following distinctions can be made between Western plugs:

- 4pole plug for telephone, power supply,
- 6pole plug for fax and telephone connection,
- 8pole plug for ISDN and PC connections

### Crimping pliers for modular plugs

for unshielded modular plugs, inexpensive, lightweight tool for the casual usage, with cable cutter and stripper



Art. No.	crimp	length	weight	PU
21 08 67	4pole plug, RJ10, 4P4C, RJ14, 4P2C	190	230	1
21 08 65	6pole plug, 6P/RJ12, RJ11, 6P2C	190	230	1
21 08 69	8pole plug, RJ45, 8P8C	190	230	1

### Crimping pliers for modular plugs

for unshielded modular plugs, with cable cutter and stripper, light construction (6p, 8p, 6DEC, 4p)



Art. No.	crimp	length	weight	PU
21 30 50	4, 6, 8pole plug, 6 DEC RJ10, RJ11, RJ12, RJ14, RJ45	200	300	1

### Crimping pliers for modular plugs

for unshielded modular plugs, with cable cutter and stripper. Exactly crimp process through parallel crimping, even crimping quality by means of safety catch



Art. No.	crimp	length	weight	PU
21 08 57	6 and 8pole plug RJ11, RJ12, RJ45	200	530	1

### Crimping pliers for modular plugs

for unshielded modular plugs 4-,6- and 8pole plug, 6DEC, heavy construction, with linear stroke and locking device, with cable cutter and stripper. Exactly crimp process through parallel crimping, even crimping quality by means of safety catch



Art. No.	crimp	length	weight	PU
21 08 71	4, 6, 8pole plug, 6DEC RJ10, RJ11, RJ12, RJ14, RJ45	200	530	1

### Crimping pliers for modular plugs

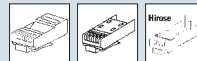
for unshielded modular plug, with linear stroke and locking device



Art. No.	crimp	weight	PU
21 09 71	4pole plug	300	1
21 09 73	6pole plug	400	1
21 09 81	8pole plug	300	1

### Crimping pliers for modular plugs

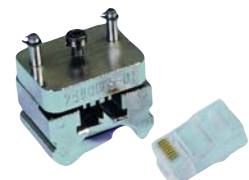
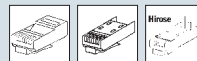
Semi-professional crimping pliers for shielded and unshielded Western plugs, with replaceable crimping dies, easy to use, light on the arms due to optimum leverage, optimum crimping, pliers body made of hardened quality steel, quick and simple replacement of crimping dies, adjustable crimping pressure and depth, application area for small and medium series, 50.000 working processes guaranteed



Art. No.	weight	PU
21 30 00	460	1

### Dies

for crimping pliers 21 30 00



Art. No.	crimp	weight	PU
21 30 02	4pole plug, unshielded	70	1 pair
21 30 04	6pole plug, unshielded	70	1 pair
21 30 06	6DEC, unshielded	70	1 pair
21 30 08	8pole plug, unshielded	70	1 pair
21 30 10	10pole plug, unshielded	70	1 pair
21 30 12	8pole plug, shielded	70	1 pair
21 30 14	10pole plug, shielded	70	1 pair

### Reference list for western plugs on the Internet:

#### Short to medium runs

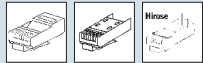
[http://www.haupa.com/documents/html/d/katalog/ruk/crimp/datenblatt/refereznlste\\_westernstecker\\_k.htm](http://www.haupa.com/documents/html/d/katalog/ruk/crimp/datenblatt/refereznlste_westernstecker_k.htm)

#### Medium to large runs

[http://www.haupa.com/documents/html/d/katalog/ruk/crimp/datenblatt/refereznlste\\_westernstecker\\_g.htm](http://www.haupa.com/documents/html/d/katalog/ruk/crimp/datenblatt/refereznlste_westernstecker_g.htm)

### Crimping pliers for modular plugs

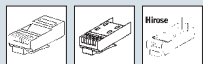
Professional crimping pliers for screened and unshielded Western plugs, with replaceable crimping dies, easy to use, light on the arms due to optimum leverage, optimum crimping, pliers body made of hardened quality steel, quick and simple replacement of crimping dies, adjustable crimping pressure and depth, application area **for medium to large series**, 50.000 working processes guaranteed



Art. No.	weight	PU
21 30 20	550	1

### Manual crimping tool for modular plugs

Professional manual crimping tool for screened and unshielded Western plugs, with replaceable steel press dies, easy to use, light on the arms due to optimum leverage, optimum crimping, made of hardened quality steel, quick and simple replacement of crimping dies, adjustable crimping pressure and depth, application area for medium to large series, can be mounted on bench



Art. No.	weight	PU
21 30 70	3860	1
21 30 72	Mounting plate	385

### Dies

for crimping pliers 21 30 20 and handpress 21 30 70



Art. No.	crimp	weight	PU
21 30 22	8pole plug, shielded	100	1 pair
21 30 24	10pole plug, shielded	100	1 pair
21 30 26	4-pollig, ungeschirmt	100	1 pair
21 30 28	6pole plug, unshielded	100	1 pair
21 30 30	6DEC, unshielded	100	1 pair
21 30 32	8pole plug, unshielded	100	1 pair
21 30 34	10pole plug, unshielded	100	1 pair
21 30 36	8pole plug, CAT 5, unshielded	100	1 pair
21 30 38	6pole plug, shielded	100	1 pair
21 30 40	8pole plug, „Steward connector“, shielded	100	1 pair
<i>Dies for connector</i>	21 30 42 for Ø 3.7 mm	100	1 pair
	21 30 44 for Ø 4.5 mm	100	1 pair
	21 30 46 for Ø 5.2 mm	100	1 pair
	21 30 48 for Ø 6.0 mm	100	1 pair

More dies on request

### Crimping pliers für “Hirose” modular plugs

Professional crimping pliers for screened **Hirose modular plugs**, for 5.7 mm diameter cable, short design, **complete crimping in one step**, easy to use, light on the arms due to optimum leverage, optimum crimping, body of the pliers made of hardened quality steel



Art. No.	cable-Ø	weight	PU
21 30 51	5.7	550	1

### Crimping pliers für “Hirose” modular plugs

Professional crimping pliers for screened **Hirose modular plugs**, for 6.4 mm diameter cable, short design, **complete crimping in one step**, easy to use, light on the arms due to optimum leverage, optimum crimping, body of the pliers made of hardened quality steel



Art. No.	cable-Ø	weight	PU
21 30 52	6.4	550	1

### Crimping pliers for “Sentinel” modular plugs

Professional crimping pliers for screened **Sentinel modular plugs**, for 5.5 mm diameter cable, short design, **complete crimping in one step**, easy to use, light on the arms due to optimum leverage, optimum crimping, body of the pliers made of hardened quality steel



Art. No.	cable-Ø	weight	PU
21 30 54	5.5	550	1

### Network range

Case with insert. With tools for cable stripping, cutting, crimping and applying to strips, sockets or fields.

Content:

- 1 crimping pliers for Western plugs (213050)
- 1 wire stripper for UTP/STP data cable (200068)
- 1 Sensor input tool LSA for UTP and STP cable (300322)



Art. No.	weight	PU
30 00 33	1200	1

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## HAUPA Elektrik Crimper

The Electric crimper is an ideal device to securely crimp wires and cable terminals such as:

- insulated cable lugs to 6 mm<sup>2</sup>/10 AWG
- Tubular cable lugs, solderl. terminals to 10 mm<sup>2</sup>/8 AWG
- Flat tab terminals to 6 mm<sup>2</sup>/10 AWG
- Wire end sleeves to 50 mm<sup>2</sup>/1 AWG

**The Electric Crimper can be operated in one of two modes:**

**Mode 1:** controls the entire crimp process by pressing down the pedal switch.

**Mode 2:** allows the user to fix the terminal on the cable by actuating the foot switch once. To finish the crimping process, he presses down the foot switch once again. Mode 2 is used for more complex terminals.

The onset of compression force can be adjusted for each new terminal to satisfy crimp integrity. That way, damage to dies and terminals can be minimised.

Simply press a button to select the opening for each die. Since some female terminals are more difficult to crimp, a moveable locator can be utilised to ensure proper crimping. Various standard dies are available, as well as dies designed to customer specifications.

### Technical Data Art. No. 21 70 50:

Dimensions (w x h x d):  
140 x 220 x 320 mm

Weight:  
10 kg

Weight of foot pedal:  
1.2 kg

Max. press capacity:  
10 kN

Pressing time:  
1 s

Counter:  
6-digit LCD display

Mains connection:  
230 V/50 Hz (120 V/60 Hz)

Power consumption:  
160 VA



with foot pedal



Art. No.	weight	PU
21 70 50	10000	1

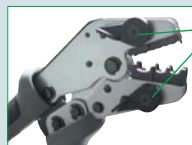
### Dies for Elektro Crimper 21 70 50

21 70 52	Rolled contacts 0.14-1/1,5/2.5/4 mm <sup>2</sup>
21 70 56	Rolled contacts 0.1-1.5 mm <sup>2</sup>
21 70 58	Rolled crimp contacts 0.1-1.5 mm <sup>2</sup>
21 70 60	Rolled crimp contacts 0.5-6 mm <sup>2</sup>
21 70 62	End sleeves 0.25-6 mm <sup>2</sup>
21 70 64	Insolated terminals 0.5-6 mm <sup>2</sup> symetric
21 70 66	Insolated terminals 0.5-6 mm <sup>2</sup> asymmetric
21 70 68	Tube terminals 0.34-2.5 mm <sup>2</sup>
21 70 70	Tube terminals "super flex" 4-10 mm <sup>2</sup>
21 70 72	Tube terminals "standard" 4-10 mm <sup>2</sup>
21 70 74	Crimping terminals 4-10 mm <sup>2</sup>
21 70 76	Crimping terminals 0.5-10 mm <sup>2</sup>
21 70 78	Protection cover to 21 70 56, 21 70 60
21 70 80	Protection cover to 21 70 70, 21 70 72, 21 70 74, 21 70 76
21 70 82	Protection cover to 21 70 68
21 70 84	Protection cover to 21 70 62
21 70 86	Protection cover to 21 70 64, 21 70 66
21 70 88	Locator to 21 70 60, socket sleeves 6.3 mm
21 70 90	Locator to 21 70 56, 21 70 58, 21 70 60, socket sleeves 4.8 mm
21 70 92	Locator to 21 70 56, socket sleeves (female) 2.8 x 5 mm
21 70 94	Locator to 21 70 56, socket sleeves (female) 2.8 x 6 mm
21 70 96	Locator to 21 70 60, socket (male) 6.3 mm
21 70 98	Locator to 21 70 60, socket (male) 6.3 mm HN

## Innovative crimping tool with rapid change system for the expert - tools for almost all crimping applications

### Product specifications

- fast change system (Patent pending)
- easy changing of crimp dies by means of thumb screws
- easy interlock
- Nickel plated surface
- no big strength required
- with ratchet and built-in safety release, guarantees proper electrical connection
- adjustable crimp pressure
- Pliers body from 3 mm, specially compensated, hardened sheet steel
- ergonomic 2 component handle with soft synthetic material insert



**Change of crimping dies**

- Fast change system (Patent pending)
- **without** thumb screws
- **without** tools
- functions with almost all crimping dies

**Application**

- Single hand operation with expenditure energy through low gear transmission ratio
- **also** two hand operation possible



### Crimpsset HAUPA Multi

The set contains the HAUPA Crimping plier Multi (21 19 62) as well as 4 usual dies. The pliers with the applications are packed in a handy synthetic material suitcase which protects against loss, pollution and damages of the tools.

Other advantages of HAUPA Multi set:

- One plier for different crimping profiles
- Enormous place and weight saving
- Additional purchase of other 22 crimping dies possible
- Handy box protects pliers and dies
- Dimension: 260 x 200 x 40 mm (w x d x h)
- Weight set: 1150 g

### Contents HAUPA Multi set:

- crimping plier **MULTI**
- 4 dies for:
  - insulated terminals **0.5 - 6 mm<sup>2</sup>**,
  - insulated and un-insulated end sleeves **0.5 - 16 mm<sup>2</sup>**,
  - uninsulated terminals **0.5 - 10 mm<sup>2</sup>**,
  - BNC and TNC coaxial connectors **RG 58-59-62-71**



Art. No.	weight	PU
21 19 60	1150	1

### More possibilities of dies - please, order separately

for end sleeves/socket	Art. No.
End sleeves 16 - 35 mm <sup>2</sup>	21 19 64
Sockets 0.5 - 2.5 mm <sup>2</sup>	21 19 65
<b>for coaxial connectors</b>	
Coax, Thimnet, Mini-UHF, BNC/TNC RG 58, RG 174	21 19 90
Coax, BNC/TNC RG 174, RG 179, small coaxial connectors	21 19 91
SMA, SMB, Mini-59, Mini-UHF, BNC/TNC RG 6, RG 6 Quad	21 19 92
Coax, CATV "F" Typ, BNC/TNC RG 6, RG 6 Quad	21 19 93
N-Typ RG 8, RG 11	21 19 94
Coax, N-Typ RG 8, RG 11, RG 213, RG 216	21 19 95
<b>for Fibre Optic connectors</b>	
Fibre Optic, SMA Typ	21 19 96
Fibre Optic, SMA, SMB, SFR, ST, SC Typ	21 19 97
<b>for unshielded modular plugs</b>	
RJ 45 - 8P8K, Steward Connectors, 22-24 AWG	21 19 68
RJ 11, RJ 12 - 6P6K, Steward Connectors, 22-24 AWG	21 19 69
Telephone 4P4K, AMP+Steward Connectors, 22-24 AWG	21 19 70
RJ 45 - 8P8K, AMP, 22-24 AWG	21 19 71
RJ 11, RJ 12 - 6P6K, AMP, 22-24 AWG	21 19 72
RJ 11, DEC MMJ - 6P6K, AMP, 22-24 AWG	21 19 73
RJ 50 - 10P10K, AMP, 22-24 AWG	21 19 74
<b>for shielded modular plugs</b>	
RJ 45 - 8P8K, short, Steward Connectors, STP 22-24 AWG	21 19 80
RJ 45 - 8P8K, long, Hirose, STP 22-24 AWG	21 19 81
RJ 45 - 8P8K, short, Hirose, STP 22-24 AWG	21 19 82
RJ 45 - 8P8K, Molex, for Ø 5.0 mm, STP 22-24 AWG	21 19 83
RJ 45 - 8P8K, AMP, Molex, for Ø 6.0 mm, STP 22-24 AWG	21 19 85

## INFO

### Crimping pliers for uninsulated tubular cable lugs and connectors

#### 1. Choosing the connector

To achieve a standard-compliant connection it is necessary to choose the correct connector for the application and the right cable cross section.

#### 2. Stripping

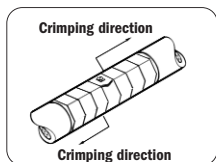
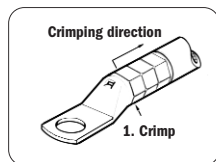
Before notching, the cable must be stripped according to the insertion length (+10% due to change in length of the crimping sleeve).

#### 3. Cleaning

The ends of the wire must be cleaned thoroughly to remove all traces of dirt and oxidation before being assembled.

#### 4. Assembly

Insert the cable into the cable lug or connector to its full insertion length. Crimp the cable lug or connector with the correct tool, taking account of the crimping direction (see figure).



Tube terminals



DIN crimping terminals



Butt connectors, DIN



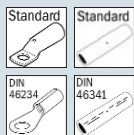
with inspection hole



Matching terminals can be found starting at Page 72

#### Crimping pliers

with forced interlock, legs punched and extended for greater lever transmission / force transfer, for standard tube terminals and connectors, mandrel shape crimping. Particularly suitable for nickel pipe cable shoes and connectors



Art. No.	crimp	weight	PU
21 07 72	1-2.5-4 to 6-10	600	1
21 07 74	1 to 2-6-10-16	600	1

#### Crimping pliers

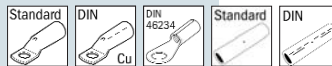
with punch and adjustable screw for different cross-sections, for standard tube terminams and connectors, **mandrel shape crimping**



Art. No.	crimp	weight	PU
21 07 91	10 - 120	3300	1

#### Crimping pliers

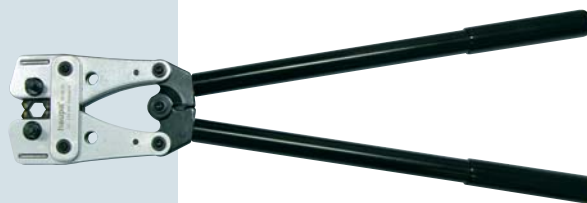
with built-in rotatable profile disk, **hexagon crimping**



Art. No.	crimp	weight	PU
21 08 05	6 - 50 Standard	1300	1
21 08 05 K	6 - 50 DIN	1300	1

#### Crimping pliers

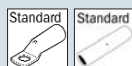
with built-in rotatable profile disk, **hexagon crimping**



Art. No.	crimp	weight	PU
21 08 50	10 - 120 Standard	3780	1
21 08 53	10 - 120 DIN	3780	1

#### Crimping pliers

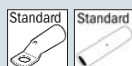
with forced interlock and extended legs for greater lever transmission and force transmission, for standard tube terminals and connectors, **mandrel shape crimping**



Art. No.	crimp	weight	PU
21 08 30	0.75 - 16	600	1

#### Crimping pliers

for uninsulated "Standard" tube terminals/connectors and tube terminals for fine-wire cables, with integrated rotatable profile disc, **mandrel shape crimping**



Art. No.	crimp	weight	PU
21 08 34	6-10-16-25-35-50 *	2800	1
21 08 36	50-70-90-120	4800	1
21 08 38	120-150-185-240	5200	1
21 08 40	185-240-300-400	5200	1

\* without extensions

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## INFO

### Technical indication to the different crimping formats

The following crimping formats are generally available.

**Hexagonal crimp**  
for crimping "normal design" Cu tubular cable lugs and connectors tubular cable lugs for switchgear connections, crimp cable lugs and connectors DIN 46235 / DIN 46267, Al crimp cable lugs and connectors. Applications: 6 - 1000 mm<sup>2</sup>

**Mandrel shape crimp**  
for crimping "normal design" Cu tubular cable lugs and connectors, tubular cable lugs for switchgear connections, crimp cable lugs DIN 46234 and pin cable lugs for fine wires, nickel tubular cable lugs and connectors. Applications: 0.75 - 400 mm<sup>2</sup>

**Oval crimp**  
for crimping double crimp cable lugs, C clamps, insulated tubular cable lugs and connectors, insulated pin cable lugs, crimp cable connectors DIN 48217, crimp dead end binding, insulated cable connections. Applications: 0.1 - 185 mm<sup>2</sup>

**Trapezoid crimp**  
for crimping wire-end sleeves and twin wire-end sleeves. Applications: 0.14 - 185 mm<sup>2</sup>

**Square crimp**  
for crimping wire-end sleeves and twin wire-end sleeves. Applications: 0.14 - 6 mm<sup>2</sup>

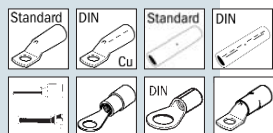
**WM crimp**  
for crimping tube terminals "standard"  
Applications: 10 - 400 mm<sup>2</sup>

**Rounding**  
for sectorwires 90° and 120°  
Applications: 10 sm - 300 sm, 35 se - 300 se

**Cutting dies**

### Crimping pliers

C-form crimping head 360° adjustable, with interchangeable dies



Art. No.	crimp	weight	PU
21 08 56	6 - 185	2500	1

### Metal box for crimping pliers 21 08 56

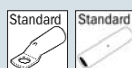
for storing of crimping pliers and crimping dies



Art. No.	weight	PU
21 08 56/K	2100	1

### Dies for crimping pliers 21 08 56

for tube terminals and connectors „standard-range“, hexagon crimping



Art. No.	Cu (mm <sup>2</sup> )	weight	PU
21 08 60	6	30	1 pair
21 08 62	10	35	1 pair
21 08 64	16	35	1 pair
21 08 66	25	40	1 pair
21 08 68	3	45	1 pair
21 08 70	50	50	1 pair
21 08 72	70	50	1 pair
21 08 74	95	50	1 pair
21 08 76	120	55	1 pair
21 08 78	150	55	1 pair
21 08 80	185	55	1 pair

### Dies for crimping pliers 21 08 56

for crimp cable lugs and connectors DIN, hexagon crimping



Art. No.	Cu (mm <sup>2</sup> )	IF	weight	PU
21 08 90	10	6	30	1 pair
21 08 92	16	8	35	1 pair
21 08 94	25	10	35	1 pair
21 08 96	35	12	45	1 pair
21 08 98	50	14	50	1 pair
21 09 00	70	16	50	1 pair
21 09 02	95	18	55	1 pair
21 09 04	120	20	55	1 pair
21 09 06	150	22	55	1 pair

### Dies for crimping pliers 21 08 56

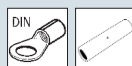
for aluminium cable lugs, hexagon crimping



Art. No.	Al (mm <sup>2</sup> )	IF	weight	PU
21 09 10	16/25	10/12	100	1 pair
21 09 14	35	14	100	1 pair
21 09 16	50	16	115	1 pair
21 09 18	70	18	120	1 pair
21 09 20	95/120	22	125	1 pair
21 09 24	150	25	130	1 pair
21 09 26	185	28	140	1 pair

### Dies for crimping pliers 21 08 56

for crimping terminals, mandrel shape crimping



Art. No.	(mm <sup>2</sup> )	weight	PU
21 09 30	10	50	1 pair
21 09 32	16	80	1 pair
21 09 34	25	100	1 pair
21 09 36	35	100	1 pair
21 09 38	50	200	1 pair
21 09 40	70	200	1 pair
21 09 42	95	250	1 pair

## Dies for crimping pliers 21 08 56

for rounding of square AL- and Cu-conductors



Art. No.	Round of square	SE	SM	CS	weight	PU
21 09 44	19.5	-	10	4.1	180	1 pair
21 09 46	19.5	-	16	5.1	180	1 pair
21 09 48	19.5	35	25	6.3	200	1 pair
21 09 50	19.5	50	35	7.5	200	1 pair
21 09 52	19.5	70	50	9	200	1 pair
21 09 60	19.5	95	70	10.5	225	1 pair
21 09 62	19.5	120	95	12.5	225	1 pair
21 09 64	19.5	150	120	14	230	1 pair
21 09 66	19.5	185	150	15.7	235	1 pair
21 09 68	19.5	240	185	17.5	245	1 pair

## Dies for crimping pliers 21 08 56

for end sleeves, trapezoid crimping



Art. No.	(mm <sup>2</sup> )	weight	PU
21 11 62	10	150	1 pair
21 11 63	16	150	1 pair
21 11 64	25	200	1 pair
21 11 65	35	200	1 pair
21 11 66	50	200	1 pair
21 11 67	70	225	1 pair
21 11 68	95	225	1 pair

## Dies for crimping pliers 21 08 56

for C-sleeves, oval crimping



Art. No.	(mm <sup>2</sup> )	weight	PU
21 11 69	16	50	1 pair
21 11 70	25	50	1 pair
21 11 71	35	50	1 pair
21 11 72	50	50	1 pair

## Dies for crimping pliers 21 08 56

Cutting dies



Art. No.	Ø	weight	PU
21 11 93	18	60	1 pair

## Dies for crimping pliers 21 08 56

for insulated terminals and connectors, oval crimping



Art. No.	(mm <sup>2</sup> )	weight	PU
21 11 74	10	50	1 pair
21 11 75	16	50	1 pair
21 11 76	25	50	1 pair
21 11 77	35	80	1 pair
21 11 78	50	80	1 pair
21 11 79	70	80	1 pair
21 11 80	95	100	1 pair

## Dies for crimping pliers 21 08 56

for insulated crimping terminals, mandrel shape crimping



Art. No.	(mm <sup>2</sup> )	weight	PU
21 11 81	10	50	1 pair
21 11 82	16	50	1 pair
21 11 83	25	50	1 pair
21 11 84	35	80	1 pair
21 11 85	50	80	1 pair

A wide range of end sleeves and terminals can be found starting at Page 50

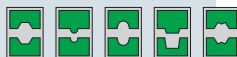
## INFO

### Mechanical crimping pliers for tubular cable lugs and connectors

Mechanical crimping tool characterised by its compact design. It is possible to make crimps even in confined working conditions, where conventional large tools cannot be used. The mature construction of the drive has proven its reliability many times over in practice. In this manual crimping tool very little wear can be seen even after many years of use, this is decisive for the reliable repetition of the required crimping depth. After all, today's highly stressed crimped connections only comply with safety regulations when the required electrical and mechanical values are achieved over long periods. Another safety aspect is that the crimping tool can only be detached from the crimped lug when the required crimping depth has been reached. By turning the wheel on the handle in an anti-clockwise direction the crimping inset can be set in position on the lug. Only then does the actual crimping process begin with the one-hand lever. The quality of the crimped connection is dependent on the choice of cable lug, the crimp inset and the correct choice of cable cross section.

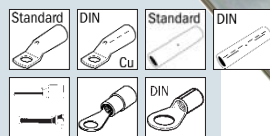
#### Crimping pliers

one hand precise tool, with ratchet and built-in-force-blocking device, crimping pressure 20 kN, interchangeable dies, easy to remove from the crimped lug by opening the crimping head, special small design for working in small areas



#### Product-specific features

- outstanding manageability
- compact construction
- precision drive
- fast forward feed
- can be used anywhere



Art. No.	crimp	weight	PU
21 50 00	6 - 50	1200	1

#### Metal box

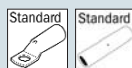
for storing of crimping pliers and dies



Art. No.	metal box	weight	PU
21 50 02		4600	1

#### Crimping dies

for crimping terminals and connectors, standard range, WM crimping



Art. No.	Al (mm <sup>2</sup> )	weight	PU
21 50 04	10	100	1 pair
21 50 06	16	120	1 pair
21 50 08	25	180	1 pair
21 50 10	35	200	1 pair
21 50 12	50	250	1 pair

#### Crimping dies

noninsulated crimping terminals, mandrel shape crimping, DIN 46234



21 50 14-22  
21 50 24



Art. No.	(mm <sup>2</sup> )	weight	PU
21 50 14	6 upper tools	20	1
21 50 16	10 upper tools	20	1
21 50 18	16 upper tools	20	1
21 50 20	25 upper tools	20	1
21 50 22	35 upper tools	20	1
21 50 24	6 - 35 lower tools	20	1

#### Crimping dies

for insulated crimping terminals, oval crimping



Art. No.	(mm <sup>2</sup> )	weight	PU
21 50 26	10	100	1 pair
21 50 28	16	100	1 pair

#### Crimping dies

for crimping terminals DIN, hexagon shape



Art. No.	Cu	Al	IF	weight	PU
21 50 30	6	-	5	100	1 pair
21 50 32	10	-	6	100	1 pair
21 50 34	16	-	8	100	1 pair
21 50 36	25	16	10	150	1 pair
21 50 38	35	25	12	150	1 pair
21 50 40	50	35	14	150	1 pair

#### Crimping dies

for end sleeves, trapezoid crimping



Art. No.	(mm <sup>2</sup> )	weight	PU
21 50 42	6	150	1 pair
21 50 44	10	150	1 pair
21 50 46	16	150	1 pair
21 50 48	25	200	1 pair
21 50 50	35	200	1 pair

**A wide range of end sleeves and terminals can be found starting at Page 50**

# INFO

## Mechanical crimping pliers for tubular cable lugs and connectors

These mechanical manual crimping pliers are modern, high performance tools. They can be used anywhere in the wide range of solder-free connection technology thanks to a comprehensive range of crimping dies.

Crimping stroke and pressure (to approx. 5.5 t) are created by several hand lever movements. The manual force required is low due to the high efficiency of the system. The press and the connecting parts can only be separated from one another when the crimp is complete. This drive system ensures that the required crimping depth is always achieved. The hinged cover guarantees comfortable handling of the press, even in awkward-to-reach positions such as in control cabinets.

By turning the fast forward feed lever to place the crimp inset on the cable lug, the number of manual lever movements is considerably reduced and rational work is guaranteed.

Only then does the actual crimping process begin with the hand lever. When the required crimping depth has been reached the press releases pressure spontaneously and the hinged cover can be opened to remove the connector.

The crimping process can be interrupted if an error has been made in the choice of the inset, cable lug or cable. To do this swing the hand lever completely out, depress the ratchet and turn the forward feed lever backwards.

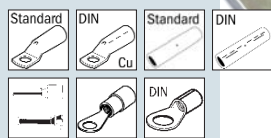
### Crimping pliers

precise tool with ratchet and built-in-force-locking device, crimping pressure 50 kN, interchangeable dies, easy to remove from the crimped lug by opening the crimping head



#### Product-specific features

- can be used anywhere
- minimum strength required
- broad application spectrum
- precision drive
- rational use



Art. No.	crimp	weight	PU
21 51 00	6 - 120	2100	1

### Metal box

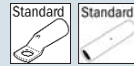
for storing of crimping pliers and dies



Art. No.	weight	PU
21 51 02	metal box	4600 1

### Crimping dies for 21 51 00

for crimping terminals and connectors, standard range, WM crimping



Art. No.	(mm <sup>2</sup> )	weight	PU
21 51 04	10/70	350	1 pair
21 51 06	16/35	350	1 pair
21 51 08	25/50	350	1 pair
21 51 10	95	400	1 pair
21 51 12	120	400	1 pair

### Crimping dies for 21 51 00

for uninsulated crimping terminals, for up to four diameter, mandrel shape crimping, DIN 46234 + DIN 46341



Please order the top and bottom tools separately.



Art. No.	(mm <sup>2</sup> )	weight	PU
21 51 14	6 - 70	mark	350 1
21 51 16	10/16/25/35	quadruple die	350 1
21 51 18	16/25/35/50	quadruple die	350 1
21 51 20	6/50	double die	400 1
21 51 22	70	single die	400 1

### Crimping dies for 21 51 00

for insulated crimping terminals, oval crimping



Art. No.	(mm <sup>2</sup> )	weight	PU
21 51 24	10	100	1 pair
21 51 26	16	100	1 pair
21 51 28	25	100	1 pair
21 51 30	35	100	1 pair

### Crimping dies for 21 51 00

for crimping terminals DIN, hexagonal crimping



Art. No.	Cu	Al	IF	weight	PU
21 51 42	10/70	- /50	6/16	100	1 pair
21 51 44	16/35	- /25	8/12	100	1 pair
21 51 46	25/50	16/35	10/14	100	1 pair
21 51 48	95	70	18	100	1 pair
21 51 50	120	-	20	100	1 pair

### Crimping dies for 21 51 00

for rounding of square copper and aluminium



Art. No.	(mm <sup>2</sup> )	weight	PU
21 51 52	25/35	250	1 pair
21 51 54	35/50	250	1 pair
21 51 56	70/95	250	1 pair

### Crimping dies for 21 51 00

for end sleeves, trapezoid crimping



Art. No.	(mm <sup>2</sup> )	weight	PU
21 51 64	25	200	1 pair
21 51 66	35	200	1 pair
21 51 68	50	250	1 pair
21 51 70	70	250	1 pair
21 51 72	95	250	1 pair

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## INFO

### Mechanical crimping pliers for tubular cable lugs and connectors

In this hand press the crimping stroke is produced by a number of hand lever movements. The transport ratchet starts the eccentric wheel moving and con-rods convert the eccentric turning motion into a straight-line stroke of the guide that runs in grooves.

The bottom crimping inset is placed in the guide. It sits on an adjustment plate that is screwed on to the guide. This plate compensates for all the tolerances resulting from the manufacturing process or wear and tear.

By turning the wheel on the handle in an anti-clockwise direction the crimping inset can be transported directly to the installation on the connecting part. Only then does the actual crimping process begin with the hand lever. When the required crimping depth has been reached the press releases the pressure spontaneously and the hinged cover can be opened to remove the connector.

The crimping process can be interrupted if an error has been made in the classification of the inset, cable lug or cable. To do this swing the hand lever completely out, depress the ratchet and turn the forward feed lever backwards.

The quality of the crimped connection is dependent on the choice of cable lug, the crimp inset and the correct choice of cable cross section.

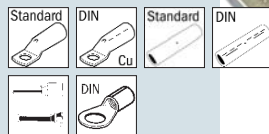
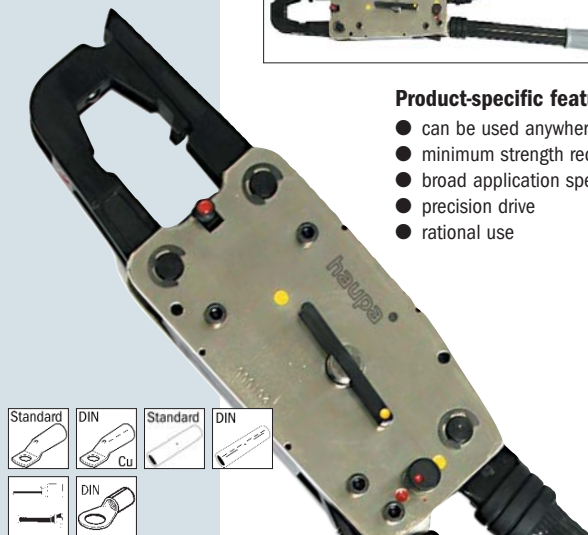
#### Crimping pliers

precise tool with ratchet and built-in-force-locking device, interchangeable dies, easy to remove from the crimped lug by opening the crimping head



#### Product-specific features

- can be used anywhere
- minimum strength required
- broad application spectrum
- precision drive
- rational use



Art. No.	crimp	weight	PU
21 52 00	10 - 240	4500	1

#### Metal box

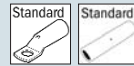
for storing of crimping pliers and dies



Art. No.	metal box	weight	PU
21 52 02		3700	1

#### Crimping dies for 21 52 00

for crimping terminals and connectors, standard range, WM crimping



Art. No.	(mm <sup>2</sup> )	weight	PU
21 52 04	10/25	100	1 pair
21 52 06	16/35	100	1 pair
21 52 08	50	100	1 pair
21 52 10	70	100	1 pair
21 52 12	95	100	1 pair
21 52 01	120	100	1 pair
21 52 03	150	100	1 pair
21 52 05	185	100	1 pair
21 52 07	240	100	1 pair

#### Crimping dies for 21 52 00

for uninsulated crimping terminals, mandrel shape crimping, DIN 46234 + DIN 46341



Art. No.	(mm <sup>2</sup> )	weight	PU
21 52 14	10 - 70	mark	100 1
21 52 16	95 - 150	mark	100 1
21 52 18	10/70	double die	100 1
21 52 20	16/35	double die	100 1
21 52 22	25/50	double die	100 1
21 52 24	95	single die	100 1
21 52 26	120	single die	100 1
21 52 28	150	single die	100 1

#### Crimping dies for 21 52 00

for crimping terminals DIN, hexagon crimping



Art. No.	Cu	Al	IF	weight	PU
21 52 30	10	-	6	200	1 pair
21 52 32	16	-	8	200	1 pair
21 52 34	25	16	10	200	1 pair
21 52 36	35	25	12	200	1 pair
21 52 38	50	35	14	200	1 pair
21 52 40	70	50	16	200	1 pair
21 52 42	95	70	18	200	1 pair
21 52 44	120	-	20	200	1 pair
21 52 46	150	95/120	22	220	1 pair
21 52 48	185	150	25	220	1 pair
21 52 50	240	185	28	220	1 pair

#### Crimping dies for 21 52 00

for end sleeves, trapezoid crimping



Art. No.	(mm <sup>2</sup> )	weight	PU
21 52 52	16	150	1 pair
21 52 54	25	150	1 pair
21 52 56	35	150	1 pair
21 52 58	50	150	1 pair
21 52 60	70	200	1 pair
21 52 62	95	200	1 pair
21 52 64	120	200	1 pair

# INFO

## Mechanical crimping pliers for tubular cable lugs and connectors

This mechanical hand press is a modern high performance tool. Its eccentric drive has been tried and tested in extreme temperatures and in day-to-day use. When handled properly this tool is very low maintenance.

Crimps can also be made in larger cable cross sections without much effort on the part of the user, because the outer notches of the eccentric drive only move one notch at a time through the hand lever movement. In other words, the required pressure is also created from a specific number of individual strokes.

The device is characterised by its manageability although it reaches the enormous pressure of 100 kN.

The press and the connecting parts can only be separated from one another when the crimp is complete. This drive system ensures that the required crimping depth is always achieved.

Thus the reliability of crimped connections that is demanded today more than ever before is guaranteed.

### Crimping pliers

precise tool with ratchet and built-in-force-locking device, crimping pressure 100 kN, interchangeable dies, easy to remove from the crimped lug by opening the crimping head



#### Product-specific features

- can be used anywhere
- minimum strength required
- broad application spectrum
- precision drive
- rational use
- high crimping pressure of 100 kN



Art. No.	crimp	weight	PU
21 53 00	10 - 400	4800	1

### Metal box

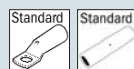
for storing of crimping pliers and dies



Art. No.	metal box	weight	PU
21 53 66		1200	1

### Crimping dies for 21 53 00

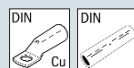
for crimping terminals and connectors, standard range, WM crimping



Art. No.	(mm <sup>2</sup> )	weight	PU
21 53 02	10/25	200	1 pair
21 53 04	16/35	200	1 pair
21 53 06	50	200	1 pair
21 53 08	70	200	1 pair
21 53 10	95	200	1 pair
21 53 12	120	200	1 pair
21 53 14	150	200	1 pair
21 53 16	185	200	1 pair
21 53 18	240	200	1 pair
21 53 20	300	200	1 pair
21 53 22	400	200	1 pair

### Crimping dies for 21 53 00

for crimping terminals DIN and AL-terminals, hexagon crimping



Art. No.	Cu	Al	IF	weight	PU
21 53 24	10	-	6	200	1 pair
21 53 26	16	-	8	200	1 pair
21 53 28	25	16	10	200	1 pair
21 53 30	35	25	12	200	1 pair
21 53 32	50	35	14	200	1 pair
21 53 34	70	50	16	200	1 pair
21 53 36	95	70	18	200	1 pair
21 53 38	120	-	20	200	1 pair
21 53 40	150	95/120	22	200	1 pair
21 53 42	185	150	25	200	1 pair

### Crimping dies for 21 53 00

for rounding of square copper and aluminium



Art. No.	Cu	Al	weight	PU
21 53 48	25	35	200	1 pair
21 53 50	35	50	200	1 pair
21 53 52	50	70	200	1 pair
21 53 54	70	95	200	1 pair
21 53 56	95	120	200	1 pair
21 53 58	120	150	200	1 pair
21 53 60	150	185	200	1 pair
21 53 62	185	240	200	1 pair
21 53 64	240	300	200	1 pair

**A wide range of end sleeves and terminals  
can be found starting at Page 50**

**haupa®**

**...convincing solutions**

