

Pressing and crimping





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INFO

HUPcompact

The new HUPcompact is a handy, compact crimp tool that will be available in 4 variations:

- for end sleeves
- for insulated cable lugs and connectors
- for non insulated cable lugs and connectors
- for open brass tab connectors

Tool frame is from hardened steel with matt silver coating and clearly indicated crimp values. Ratchet system with unblocking option secures safe crimping process. Tool can fit into one hand and it is easy to crimp.

Features:

- easy achievement of high crimping force due to optimized leverage system
- sure achievement of full crimping range and depth
- metal parts made of quality steel
- precise and quality manufacturing of all elements
- possibility of crimping force regulation via eccentric axle
- safety relief
- for use in series production
- small gripping distance (suitable also for smaller hands)

Technical data:

- length: 198 mm
- width: 50 mm
- handle force: 5 kN
- life span: 50,000 crimp cycles



- **100% parallel crimp**
- **precision crimp**
- **handle force: 5 kN**
- **small compact construction**



HUPcompact „HC01”

for insulated cable lugs and connectors, 100% parallel crimp, precision crimp, handle force: 5 kN, small compact construction, life span: 50,000 crimp cycles, **oval pressing**



Art. no.	Ø	kg	PU
213090	0,1 - 6	0,578	1

HUPcompact „HC02”

for end sleeves, 100% parallel crimp, precision crimp, handle force: 5 kN, small compact construction, life span: 50,000 crimp cycles, **trapezoidal pressing**, (10 + 16 mm² wave profile/ 0.5-6 mm² trapezoidal profile)



Art. no.	Ø	kg	PU
213088	0,25 - 16	0,480	1

HUPcompact „HC03”

for non insulated cable lugs and connectors, 100% parallel crimp, precision crimp, handle force: 5 kN, small compact construction, life span: 50,000 crimp cycles, **mandrel shape pressing**



Art. no.	Ø	kg	PU
213092	0,75 - 10	0,480	1

HUPcompact „HC04”

for open brass tab connectors, 100% parallel crimp, precision crimp, handle force: 5 kN, small compact construction, life span: 50,000 crimp cycles, with locator, **roll pressing**



Art. no.	Ø	kg	PU
213094	0,5 - 6	0,490	1

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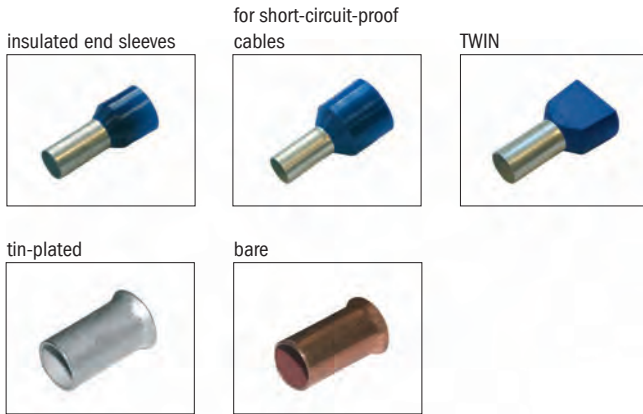
INFO

Crimping pliers for end sleeves

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

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.



Crimping pliers

for end sleeves, with cutting and stripping mechanism, matt, chrome-plated



Art. no.	TL	mm ²	kg	PU
210820	140	0,25 - 2,5	0,202	1
210824	220	0,75 - 16	0,304	1
210826	225	10 - 35	0,277	1

Crimping pliers

for end sleeves, short construction, 20% angled handy form, with locking device, with adjustable crimp pressure, **trapezoid pressing**



Art. no.	mm ²	kg	PU
211650	0,14 - 2,5	0,371	1
210841	0,25 - 6	0,380	1
211652	6 - 16	0,374	1

Crimping pliers for twin end sleeves

with locking device, with adjustable crimp pressure, chrome plated, **trapezoid pressing**



Art. no.	mm ²	kg	PU
211676	0,5 - 6	0,576	1
211678	6 - 16	0,604	1

Crimping pliers

for end sleeves, with locking device, with adjustable crimp pressure, chrome plated, **trapezoid pressing**



Art. no.	mm ²	kg	PU
210763	0,5 - 4	0,578	1
210842	1 - 10	0,553	1
210765	6 - 16	0,582	1
211672	10 - 25	0,580	1
210768	10 - 35	0,606	1
211674	25 - 50	0,600	1

HUPcompact „HC02”

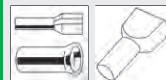
for end sleeves, 100% parallel crimp, precision crimp, handle force: 5 kN, small compact construction, life span: 50,000 crimp cycles, **trapezoid pressing**, (10 + 16 mm² wave profile/ 0.5-6 mm² trapezoidal profile)



Art. no.	∅	kg	PU
213088	0,25 - 16	0,480	1

Crimping pliers

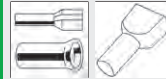
for end sleeves, precise **square pressing** profile, automatic setting to the conductor cross-section, unlockable forced lock, guarantees connections that meet DIN, high transmission and ergonomically shaped plastic handles for fatigue free working, **square pressing**.
2 grooved and 2 smooth jaws for better insertion of the sleeve.



Art. no.	mm ²	kg	PU
210804	0,08 - 10 square	0,413	1

Crimping pliers

for end sleeves, precise crimping profile, automatic setting to the conductor cross-section, unlockable forced lock, guarantees connections that meet DIN, high transmission and ergonomically shaped plastic handles for fatigue free working. **Square pressing**



Art. no.	mm ²	kg	PU
211816	0,08 - 16 square	0,413	1

Crimping pliers for end sleeves

Crimping pliers

for end sleeves, precise hexagonal crimping profile, automatic setting to the conductor cross-section, unlockable forced lock, guarantees connections that meet DIN, high transmission and ergonomically shaped plastic handles for fatigue free working, **hexagon pressing**



Art. no.	mm ²		kg	PU
211805	0,08 - 6	hexagonal	0,413	1

Crimping pliers

for end sleeves, precise crimping profile, automatic setting to the conductor crosssection, unlockable forced lock, guarantees connections that meet DIN, high transmission and ergonomically shaped plastic handles for fatigue free working, **hexagon pressing**



Art. no.	mm ²		kg	PU
211818	0,08 - 10	hexagonal	0,413	1

Front-Crimping pliers

for end sleeves, precise **square pressing** profile, automatic adjustment on wire diameter, frontal approach allows working in small areas, sidewise approach for end sleeves up to 2.5 mm², with locking device, high transmission and ergonomically formed plastic handle, **square pressing**



Art. no.	mm ²		kg	PU
210819	0,08 - 10	square	0,489	1
211810	0,08 - 16	square	0,489	1

Front-Crimping pliers

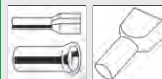
for end sleeves, automatic adjustment of crimp-profile, with locking device, with adjustable crimp pressure, **trapezoid pressing**



Art. no.	mm ²		kg	PU
210979	0,14 - 6		0,575	1
210979/B	10 - 16		0,584	1

Crimping pliers

for end sleeves, lever translated version for better transmission of force, with unlockable locking mechanism, **trapezoidal pressing**



Art. no.	mm ²		kg	PU
210788	10 - 50		0,732	1
210789	50 - 95		0,800	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.	TL	mm ²	kg	PU
210682/1	170	0,5 - 2,5	0,056	1

Quadro complete set in case

- in case:
- 1 „Quadro“-pliers incl. magazine
 - 2 spare magazines
- Box for end sleeve strips



Art. no.	TL	mm ²	kg	PU
210682	170	0,5 - 2,5	0,713	1
210682/2		Magazine for Quadro	0,020	1
210682/3		Box for end sleeves	0,010	1

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Pneumatic crimpers

HAUPA Pneumatic Crimpers

for end sleeves, 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. Incl. spiral hose 2 m



Video 217010-40



Art. no.	TL	mm ²	kg	PU
217030	200	0,25 - 2,5	0,720	1
217040	200	4 - 10	0,739	1

HAUPA Pneumatic crimpers table top versions

for end sleeves, table top versions are actuated by a foot switch, allowing the operator to use both hands. Incl. spiral hose, foot switch and table clamp



Art. no.	TL	mm ²	kg	PU
217010	200	0,25 - 2,5	5,000	1
217020	200	4 - 10	5,000	1



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MADE IN GERMANY

2 0804

Crimping pliers for insulated crimp cable lugs

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 mm²
- Blue => stands for >1.5 to 2.5 mm²
- Yellow => stands for >2.5 to 6 mm²

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



Shrinkable connectors



Round terminals



Flat terminals



Socket sleeves (female)



Round sleeves



Round pins



Socket sleeves (male)



Butt connectors



Parallel connectors



End connectors



Crimping pliers

for insulated crimp cable lugs, short construction, 20% angled handy form, with locking device, with adjustable crimp pressure, **oval pressing**



Art. no.	mm ²	kg	PU
210845	0,08 - 2,5	0,343	1

Crimping pliers

for insulated crimp cable lugs, with locking device, with adjustable crimp pressure, chrome plated, **oval pressing**



Art. no.	mm ²	kg	PU
210761	0,5 - 6	0,566	1

Crimping pliers

for shrink connectors, with locking device, with adjustable crimp pressure, chrome plated, **oval pressing**



Art. no.	mm ²	kg	PU
211695	0,5 - 10	0,566	1

HUPcompact „HC01“

for insulated cable lugs and connectors, 100% parallel crimp, precision crimp, handle force: 5 kN, small compact construction, life span: 50,000 crimp cycles, **oval pressing**



Art. no.	∅	kg	PU
213090	0,1 - 6	0,578	1

Crimping pliers

for insulated crimp cable lugs, lever translated version for better transmission of force, with unlockable locking mechanism, **oval pressing**



Art. no.	mm ²	kg	PU
210827	10 - 16	0,472	1

Crimping pliers

for insulated crimp cable lugs with wire-and bolt-cutters and wire stripper with threaded bolt-cutter, **oval pressing**



Art. no.	mm ²	kg	PU
210802	0,5 - 6	0,178	1

Combi-Crimping pliers

for insulated and uninsulated crimp cable lugs and connectors from 0.5 - 6 mm², C 45, cutting edges induction hardened, with wire-and bolt-cutters and wire stripper with threaded bolt-cutter, **oval pressing**



Art. no.	mm ²	kg	PU
210808	0,75 - 6	0,198	1

Crimping pliers for uninsulated crimp cable lugs

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 thorn 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

for non insulated crimp cable lugs, short construction, 20% angled handy form, with locking device, with adjustable crimp pressure, **mandrel shape pressing**



Art. no.	mm ²	kg	PU
210778	0,25 - 2,5	0,363	1
210779	1,25 - 6	0,366	1

Crimping pliers

for non insulated crimp cable lugs, with locking device, with adjustable crimp pressure, chrome plated, **mandrel shape pressing**



Art. no.	mm ²	kg	PU
210764	1,5 - 10	0,565	1

HUPcompact „HC03“

for non insulated cable lugs and connectors, 100% parallel crimp, precision crimp, handle force: 5 kN, small compact construction, life span: 50,000 crimp cycles, **mandrel shape pressing**



Art. no.	Ø	kg	PU
213092	0,75 - 10	0,480	1

Crimping pliers

for non insulated crimp cable lugs, lever translated version for better transmission of force, with mandrel pressing, for standard tubular cable lugs and connectors. Particularly well suited to nickel tubular cable lugs and connectors



Ni



Art. no.	mm ²	kg	PU
210772	1-2,5-4 > 6-10	0,478	1
210774	1 > 2-6-10-16	0,503	1

Crimping pliers

for non insulated crimp cable lugs, lever translated version for better transmission of force, with mandrel pressing, for standard tubular cable lugs and connectors



Art. no.	mm ²	kg	PU
210799	0,5 - 16	0,903	1

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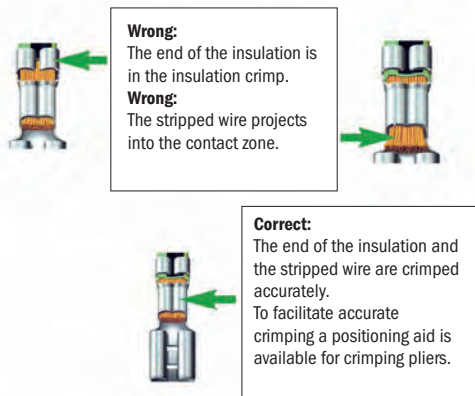
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Crimping pliers for uninsulated open brass cable lugs

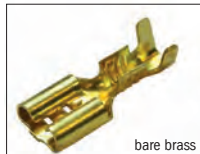
INFO

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".



Socket sleeves (female) with cable stop



Socket sleeves (female) with cable stop and side cable connection



Flat terminals



Precision-ground crimp profiles => clean crimp

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

for open brass cable lugs, short construction, 20% angled handy form, with locking device, with adjustable crimp pressure, **roll pressing**



Art. no.	mm ²	kg	PU
210777	0,5 - 1,5	0,366	1

Crimping pliers

for open brass cable lugs, with locking device, with adjustable crimp pressure, chrome plated, **roll pressing**



Art. no.	mm ²	kg	PU
211682	0,5 - 2,5	0,568	1
210762	0,5 - 6	0,575	1

Crimping pliers

for open brass cable lugs, with locking device, with adjustable crimp pressure, chrome plated, **roll pressing**



Art. no.	mm ²	kg	PU
210785	0,05 - 1	0,537	1
210786	1,5 - 2,5	0,535	1

HUPcompact „HC04"

for open brass tab connectors, 100% parallel crimp, precision crimp, handle force: 5 kN, small compact construction, life span: 50,000 crimp cycles, with locator, **roll pressing**



Art. no.	Ø	kg	PU
213094	0,5 - 6	0,490	1

Crimping pliers for coaxial connections

Crimping pliers

for coax-connections, short construction, 20% angled handy form, with locking device, with adjustable crimp pressure, **hexagon pressing**



Art. no.	crimp	kg	PU
210849	RG 55-58-59-62	0,303	1

Crimping pliers

for coax-connections, with locking device, with adjustable crimp pressure, chrome plated, **hexagon pressing**



Art. no.	crimp	kg	PU
210767	RG 55-58-59-62	0,567	1
211680	RG 55-58-59-62-5-6	0,578	1

Crimping pliers HUPstar Coax

for coaxial connectors. Crimp pliers for industrial users, revolving precision impression dies with parallel feed, changeable dies.

Pressing star 213082/E

Coax:

Hexagon crimp, BNC, TNC, SNB, SNC, SMS, SMA, MCX, 1.07 to 10.9 mm



Art. no.	TL	kg	PU
213082	230	0,650	1
213082/E	dies	0,160	1

Crimping pliers for contacts and connectors

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

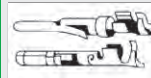
short construction, for twisted contacts, 20% angled handy form, with locking device, with adjustable crimp pressure, **square pressing**



Art. no.	crimp	kg	PU
211656	0,14-4	0,367	1
211658	1,5-6	0,372	1

Crimping pliers

short construction, for rolled contacts, 20% angled handy form, with locking device



Art. no.	crimp	kg	PU
211660	0,5-1,5	0,370	1

Crimping pliers

short construction, for D-Sub-connectors, 20% angled handy form, with locking device



Art. no.	crimp	kg	PU
211662	0,08-0,5	0,365	1



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Crimping pliers for Photovoltaik

INFO

Photovoltaik

The photovoltaic energy conversion is carried out with the assistance of solar cells that are connected in order to form solar modules in photovoltaic plants. The generated electricity can be stored on site in accumulators or fed into the power network. If the energy is fed into the public power network then the direct current generated by the solar cells will be converted by a converter into alternating current. In order to constantly make energy available, the energy must be stored.



Crimping pliers



with locking device, with adjustable crimp pressure, chrome plated square crimp (MC 3), roll crimp (MC 4)



Art. no.	mm ²		kg	PU
211657	2,5 - 6	MC3	0,560	1
211659	2,5 - 6	MC4	0,560	1

Crimpset „MULTI Photovoltaik“



Innovative crimping tool with rapid change system - one tool for almost all crimping applications

Contents of set: Crimping plier Multi (211962)
Crimping dies for „Multi - Contact“ connectors MC3
2,5 + 4 + 6 mm², AWG 13/11/10
Crimping dies for „Multi - Contact“ connectors MC4
2,5 + 4 + 6 mm², AWG 13/11/10

Other advantages:

- Screw less fast change system for crimping dies
- Single hand operation with expenditure energy
- With ratchet and built-in safety release, guarantees proper electrical connection
- Adjustable crimp pressure
- Chrome plated tool frame
- Additional purchase of other crimping dies possible
- Handy box protects pliers and dies



Art. no.	width	height	depth	kg	PU
212005	260	40	200	1,150	1

Crimping pliers HUPstar Photovoltaic



for photovoltaic connectors. Crimp pliers for industrial users, revolving precision impression dies with parallel feed, changeable dies.

Pressing star 213084/E

Photovoltaics:

Amphenol Helios H4: 2.5 / 2.5 / 6, Multi-Contact MC3: 2.5 / 2.5 / 6
Multi-Contact MC4: 2.5 / 2.5 / 6, Tyco Solarlok: 1.5 / 1.5 / 4.6



Art. no.	TL	mm ²	kg	PU	
213084	230	1,5 - 6	0,650	1	
213084/E		dies	1,5 - 6	0,160	1

HAUPA Crimp System for Photovoltaics



Crimp System Pliers for Photovoltaics

The basic hardware of the carrying case consists of:

- one pair of pliers, chromium-plated without crimping pliers insert
- one allen wrench (A/F 2.5 mm) • one open-jawed wrench (A/F 7)
- 2 pieces spare screws (M4 x 10/M4 x 16 mm)

Specifications:

- Special crimping pliers for crimping solar contacts of almost all types of connector systems
- Guaranteed exact, solder-free, electric connections
- Parallel closing of the crimping dies
- 30 % reduction of hand force through optimized leverage
- Forced latching for reliable crimping, releasable
- Crimp pressure adjustable
- Long lever arm allowing single-hand and two-hand control
- Easy change of the crimping pliers inserts, Locator fitting option for the determination of the connector position
- Several crimping positions in one crimp die assembly
- Design: chromium-plated with black plastic handle
- Material: specially heat-treated special steel



Art. no.	mm ²	kg	PU
212200	6	0,998	1

Crimp inserts for "Huber & Suhner" contacts

212206	2,5 + 4 mm ² , AWG 13/11	1
212208	4 + 6 mm ² , AWG 13/11	1

Crimp inserts for "multi-contact" contacts

212210	MC3, 2,5 + 4 + 6 mm ² , AWG 13/11/10	1
212212	MC3, Locator	1

Crimp inserts for "multi-contact" contacts

212214	MC4, 2,5 + 4 + 6 mm ² , AWG 13/11/10	1
212216	MC4, Locator	1

Crimp insert for "Hirschmann" contacts

212218	2,5 + 4 + 6 mm ² , AWG 13/11/10	1
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Crimp insert for "Tyco" contacts

212220	Tyco 1,5 + 2,5 + 4 + 6 mm ²	1
212222	Locator for Tyco	1

Dies for Solar contacts Amphenol

212226	2,5 + 4 mm ² , AWG 13/11	1
212228	2,5 + 4 mm ² , AWG 13/11	1

Crimping pliers for modular plugs

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



Art. no.	crimp	kg	PU
210867	RJ10 4(4), RJ14	0,218	1
210865	RJ11 6(4), RJ12 6(4)	0,220	1
210869	RJ45	0,233	1

Crimping pliers for modular plugs

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



Art. no.	crimp	kg	PU
213050	RJ11 6(4), RJ12 6(4), RJ45, RJ10 4(4), RJ14	0,300	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	kg	PU
210857	RJ11, RJ12 6(4), RJ45	0,471	1

Crimping pliers for modular plugs

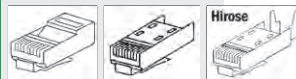
for unshielded modular plugs 4-,6- and 8pole plug, 6DEC, heavy construction, with linear stroke and locking device, with cable cutter and stripper. Exactly crimp process through parallel crimping, even crimping quality by means of safety catch



Art. no.	crimp	kg	PU
210871	RJ11 6(4), RJ12 6(4), RJ45, RJ10 4(4), RJ14	0,520	1

Crimping pliers for modular plugs

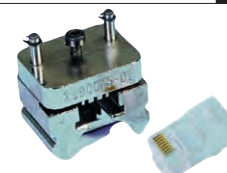
Semi-professional crimping pliers for shielded and unshielded Western plugs, with replaceable crimping dies, easy to use, light on the arms due to optimum leverage, optimum crimping, pliers body made of hardened quality steel, quick and simple replacement of crimping dies, adjustable crimping pressure and depth, application area for small and medium series, 50.000 working processes guaranteed, without dies



Art. no.	kg	PU
213000	0,420	1

Dies

for crimping pliers 213000



Art. no.	crimp	kg	PU
213002	RJ10 4(4)	0,082	1
213004	RJ11 6(4), RJ12 6(4)	0,081	1
213006	6DEC	0,080	1
213008	RJ45	0,076	1
213010	RJ50	0,074	1
213012	8pole, shielded	0,076	1
213014	10pole plug, shielded	0,071	1

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Crimping pliers for modular plugs



Professional crimping pliers for screened and unscreened 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, without dies



Art. no.	kg	PU
213020	0,474	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)

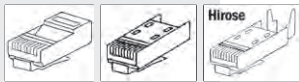


Art. no.	kg	PU
300033	0,700	1

Dies



for crimping pliers 213020



Art. no.	crimp	kg	PU
213022	8pole, shielded	0,103	1
213024	10pole, shielded	0,102	1
213026	RJ10 4(4)	0,096	1
213028	RJ11 6(4), RJ12 6(4)	0,093	1
213030	6DEC	0,091	1
213032	RJ45	0,106	1
213034	RJ50	0,102	1
213036	8pole, CAT 5	0,106	1
213038	6pole, shielded	0,106	1
213040	8pole, shielded	0,113	1
213042	Ø 3,7 mm	0,030	1
213044	Ø 4,5 mm	0,030	1
213046	Ø 5,2 mm	0,030	1
213048	Ø 6,0 mm	0,030	1



213000



213020

Reference list for western plugs on the Internet:

Short to medium runs

http://www.haupa.com/documents/html/d/katalog/ruk/crimp/datenblatt/referenzliste_westernstecker_k.htm

Medium to large runs

http://www.haupa.com/documents/html/d/katalog/ruk/crimp/datenblatt/referenzliste_westernstecker_g.htm

