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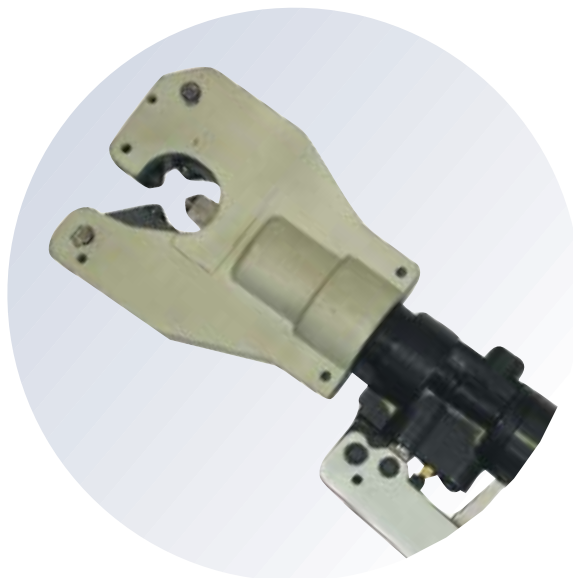
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Product news

New HAUPA hydraulic cutting tool

light and compact construction, universal tool to crimp copper terminals and connectore, no change of dies needed, mandrel shape crimping

More information on page 46



New HAUPA Tool Bags

- waterproof and dirt resistant
- cross-over joint for high toughness
- detachable, adjustable shoulder belt
- compartments
- material: extra strong 600D polyester
- colour: green, black

More information on page 169/170

4 new socket sets

tool made of chrome vanadium steel, industrial quality, GS appr., in black plastic case

- populated with 1/2" and 1/4"
- sets with 25 up to 55 parts

More information on page 145



crimp crimp range in mm²
cross section in mm²
height in mm

length in mm
lob length of blade in mm
PU packing unit in pieces

SM sectorshape multywiring (mm²)
SS sectorshape singlewiring (mm²)
th thickness in mm

tot. length total length in mm
weight in gr.
width in mm

Cutting

Cable cutters
Hydraulic cutting tools



Cutting pistol

for material of PCV and rubber, blade interchangeable, knife returns with knob-pressure



Art. No.	Ø	weight	PU
20 02 10	up to 35	550	1

Kevlar cutters

To cut Kevlar fibre on optical fibre cables, special cutting geometry, riveted joint, special blade coating



Art. No.	length	weight	PU
20 00 65	142	53	6

Electricians' scissors

with wire cutter, bright nickel-plated, plain cutting edge, straight, strong insulation



Art. No.	length	weight	PU
20 00 62	130	70	6

Allround Soft-Grip Scissors

The new allround Soft-Grip scissors with its relatively short blades and special handles are designed to fulfil the needs of the professional electrical installers. The impressive cutting performance and the tough construction make this new scissors a special tool.

- Ergonomic design (2 component)
- slipping free handle - **Soft-Grip**
- high cutting performance by low cutting force
- precision toothing
- cable stripping device
- stainless



Art. No.	length	weight	PU
20 01 55	140	62	6

crimp crimp range in mm²
cross section in mm²
height in mm

length in mm
lob length of blade in mm
PU packing unit in pieces

Electricians' scissors

with wire cutter, bright nickel-plated, bent cutting edge, angled, strong isolation



Art. No.	Ø	weight	PU
20 00 64	130	70	6

Electricians' scissors

with long handle, blunted point, plain cutting edge, strong insulation



Art. No.	length	weight	PU
20 00 66	130	70	6

Combination snips

stainless special steel, shock-proof plastic handles, one cutting edge slightly serrated, for cutting of cable, thin plate, wire, leather, cardboard, plastic



Art. No.	length	cable-Ø	weight	PU
20 00 70	140	8	55	6
20 00 72	190	10	120	6

Super cable cutters

stainless special steel



Art. No.	length	solid	flex. mm ²	weight	PU
20 00 84	180	4-5	50	115	6

Cable cutters

Cable cutter of carbon-steel, maximum cutting capacity due to special cutting-geometry



Art. No.	length	Ø	solid	flex. mm ²	weight	PU
20 01 05	215	20	25	70	325	1

SM sectorshape multywiring (mm²)
SS sectorshape singlewiring (mm²)
th thickness in mm

tot. length total length in mm
weight in gr.
width in mm

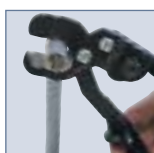
Cable cutter with a snap

The new cable-shears of HAUPA cuts cables in a non-compromising and forceful manner almost without effort and in a single-hand-operation. A patented twin-stage adjustment mechanism brings the handles of the tool to a position that is perfect for the development of the full force of the hand even while the cutting jaws are wide open. By this means, even cables with large crosssections can be cut in a forceful and fast manner with a single hand without unduly excess labour.

- Laser-cut components made of special carbon steel, oil-hardened
- CNC-ground cutting type, induction hardened for maximum cutting performance
- Screwed joint connections, re-adjustable for longer durability as well as
- an elegant and ergonomic design for optimal handling
- for telephone cable up to 26,1 mm diameter (120 mm²)
- for fine wired cable up to 18,9 mm diameter (120 mm²)



Dimension of handle without the application of the grip adjustment mechanism



Hand-force optimised through grip adjustment



First cutting phase



Grip adjustment



Second cutting phase

Art. No.	length	Ø	mm ²	weight	PU
20 10 00	230	up to 18,9	120	480	1

Cable cutter with a snap

The little brother working exactly as forceful and precise as 20 10 00 for fine wired cable up to 16,9 mm diameter (70 mm²)!



Art. No.	length	Ø	mm ²	weight	PU
20 10 02	180	up to 16,9	70	230	1

Diagonal cutters DIN 5749

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chrome plated, polished head, for soft wire and hard wire, (Standard program)



Art. No.	length	soft	hard	weight	PU
21 00 67	140	4,0	1,8	150	1
21 00 68	160	4,0	2,0	180	1

Heavy duty diagonal cutters DIN 5749

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chrome plated, polished head, for soft wire and hard wire, (Standard program)



Art. No.	length	soft	hard	weight	PU
21 01 57	180	4,0	2,7	293	1
21 01 58	200	4,2	3,0	310	1

Cable cutters

made of chrome vanadium, hardened, easier to use through joint spring, automatic release, locking device, for copper- and alu cable



Art. No.	length	Ø	weight	PU
20 00 86	170	up to 10	230	1
20 00 88	230	up to 15	485	1

Cable cutter

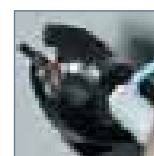
Cable cutter made of chrome vanadium steel, enormous cutting performance, reduced strain, ergonomic handle, additional stripping function in the front section, through a 180° flashover of the shank you can use the tool as a cable stripping knife. Application: for copper- and aluminium cable



Cutting



Cable stripping



Wire stripping

Art. No.	length	Ø	weight	PU
20 10 86	180	up to 10	230	1
20 10 88	240	up to 18	485	1

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Cable cutters

for cutting of flat cable, with square for rectangular cutting, housing of high quality steel, cutting blades hardened, surface gun metal finish, cutting surface of fibre glass reinforced plastic;
Working range: to 80,5 mm width for 64 wires; to 0,5 mm² cross-section



Art. No.	length	width	weight	PU
20 00 75	240	up to 80,5	350	1

Cable cutters

of special carbon-steel, maximum cutting capacity due to special cutting-geometry, deformation of the cable is impossible



first step



second step

Art. No.	length	cable-Ø	solid	flex. mm ²	weight	PU
20 01 22	200	20	25	70	310	1

Cable cutters

for copper and aluminium cable; steel-tube handles, PCV-covered



Art. No.	length	cable-Ø	Ø	weight	PU
20 00 87	500	27	150	1100	1

Cable cutters

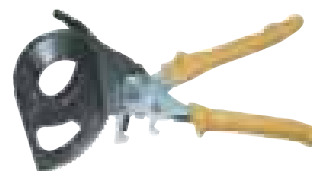
Cable cutters, ratchet action type, with spare blade, for copper and alu cable to 32mm Ø



Art. No.	length	cable-Ø	weight	PU
20 00 89	230	32	900	1

One hand cable cutters

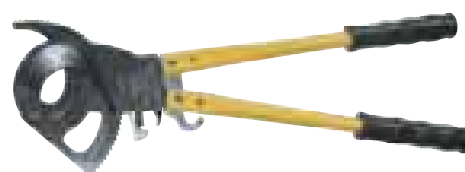
with switch gear, transmission-rate selectable between 1:25 und 1:50.
Working range: for copper cable up to 55 mm Ø and cross-section of max. 450 mm²



Art. No.	length	cable-Ø	Ø	weight	PU
20 00 78	290	55	450	1000	1

Cable cutters

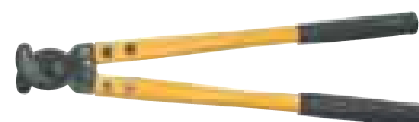
Power transmission 60 point, ratchet action type
Working range: for copper cable up to 55 mm Ø and cross-section of max. 450 mm²



Art. No.	length	cable-Ø	Ø	weight	PU
20 00 79	430	55	450	1200	1

Cable cutters

Cable cutter for copper and aluminium cable up to max. 20 mm Ø, cutting performance approx. 125 mm², (Cu-Al), anti-rust cutter made from quenched and drawn Cr-V steel, impact-resistant, coated, hardened handles, crescent-shaped, rounded cutting for a safe and precise cut, extremely stable and light.



Art. No.	length	cable-Ø	Ø	weight	PU
20 00 73	300	20	125	700	1
20 00 95	530	35	180	1400	1
20 00 99	780	50	500	2700	1

Cable cutters

for copper cable up to 30 mm Ø and cross section 150 mm², with patented leverage construction and transparent handles



Art. No.	length	cable-Ø	Ø	weight	PU
20 00 96	330	30	150	1050	1

crimp crimp range in mm²
cross section in mm²
height in mm
length in mm
lob length of blade in mm
PU packing unit in pieces

SM sectorshape multywiring (mm²)
SS sectorshape singlewiring (mm²)
th thickness in mm
tot. length total length in mm
weight in gr.
width in mm



Cable cutters

with leverage construction, blades of alloyed special steel, forged, replaceable, squeeze-free cutting, deformation of cable impossible
Working range: for Copper- and Alu-cable 24 mm Ø, cross-section 120 mm²
Replacement cutting head look at Art. No. 20 01 02



Art. No.	length	cable-Ø	Ø	weight	PU
20 00 76	600	24	120	1950	1

Cable cutters

with leverage construction, blades of alloyed special steel, forged, replaceable, squeeze-free cutting, deformation of cable impossible
Working range: for Copper- and Alu-cable 40 mm Ø, cross-section 400 mm²
Replacement cutting head look at Art. No. 20 01 04



Art. No.	length	cable-Ø	Ø	weight	PU
20 01 00	980	40	400	4040	1

Cable cutters

Replacement cutting heads for Art. No. 20 00 76 and 20 01 00



Art. No.	cable-Ø	Ø	weight	PU
20 01 02	24	120	355	1
20 01 04	40	400	630	1
20 01 06	24	120	355	1

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INFO

Cable cutters

These cable cutters are top-of-range products. They allow a squeeze-free cutting, also of larger cable cross sections without great efforts owing to high technic, like needle bearing transmission gear, special cutting geometry or a high improved eccentric gear. Large scale measurement of the forged toothings and bearing guarantee a long working life and low maintenance.

Front cable cutters

for Copper and Alu-cable 25 mm Ø, squeeze-free cutting, optimized lever-transmission,

Copper cable: 120 mm², multi- and fine wiring, outside – Ø 25 mm

Alu- cable: 120 mm² multi-wiring, outside – Ø 25 mm



Art. No. 20 01 24

Cutting range:	Cu/Al wire multi wiring	120 mm ²	25 mm Ø
	Cu/Al wire sector format	120 mm ²	25 mm Ø
	Cu wire fine wiring	120 mm ²	25 mm Ø
	Cu wire fine wiring or telecommunication cable		25 mm Ø
Dimension:	245 x 100 mm		
Weight:	0,9 kg		

Front cable cutters

for Copper and Alu-cable 34 mm Ø, squeeze-free cutting, optimized lever-transmission by eccentric drive system

Copper cable: 185 mm², multi- and fine wiring, outside – Ø 34 mm

Alu- cable: 185mm² multi-wiring, outside – Ø 34 mm



Art. No. 20 01 26

Cutting range:	Cu/Al wire multi wiring	185 mm ²	34 mm Ø
	Cu/Al wire sector format	185 mm ²	34 mm Ø
	Cu wire fine wiring	240 mm ²	34 mm Ø
	Cu wire fine wiring or telecommunication cable		34 mm Ø
Dimension:	330 x 135 mm		
Weight:	1,3 kg		

Front cable cutters

very easy-to-use precision one and two-hand cutter, excellent crush-free cutting quality, even with fine wires, reliable and virtually wear-free eccentric operation, revolving cutter can be unlocked in any position, cutting range to Ø 35 mm.



Art. No. 20 01 31

Cutting range:	Cu/Al wire multi wiring	240 mm ²	35 mm Ø
	Cu/Al wire sector format	240 mm ²	35 mm Ø
	Cu wire fine wiring	300 mm ²	35 mm Ø
	Cu wire fine wiring or telecommunication cable		35 mm Ø
Dimension:	330 x 135 mm		
Weight:	1,4 kg		

crimp crimp range in mm²
 cross section in mm²
 height in mm
 length in mm
 lob length of blade in mm
 PU packing unit in pieces

Front cable cutters

Easy-to-use two-hand front cable cutter with patented eccentric operation, excellent crush-free cutting quality even with larger cross sections, revolving cutter can be unlocked in any position, cutting range to Ø 55 mm



Art. No. 20 01 51

Cutting range:	Cu/Al wire multi wiring	550 mm ²	55 mm Ø
	Cu/Al wire sector format	550 mm ²	55 mm Ø
	Cu wire fine wiring	550 mm ²	55 mm Ø
	Cu wire fine wiring or telecommunication cable		55 mm Ø
Dimension:	485 x 195 mm		
Weight:	3,0 kg		

Cable cutters

Cable cutters for the lower using range:
 copper multi-wire 185 mm², outside 34 mm, fine-wire 240 mm²



Art. No. 20 01 11

Cutting range:	Cu/Al wire multi wiring	185 mm ²	34 mm Ø
	Cu/Al wire sector format	240 mm ²	34 mm Ø
	Cu wire fine wiring	240 mm ²	34 mm Ø
	Cu wire fine wiring or telecommunication cable		34 mm Ø
Dimension:	250 x 105 mm		
Weight:	0,75 kg		

Cable cutters

needle-bearing action parts, special cutting-geometry, improved eccentric drive, Working range: Cu-multiwiring up to 300 mm² Cu-sector shape up to 52 mm Ø, Cu- finewiring up to 400 mm², Al max. 52 mm Ø



Art. No. 20 01 12

Cutting range:	Cu/Al wire multi wiring	400 mm ²	52 mm Ø
	Cu/Al wire sector format	400 mm ²	52 mm Ø
	Cu wire fine wiring	450 mm ²	52 mm Ø
	Cu wire fine wiring or telecommunication cable		52 mm Ø
Dimension:	320 x 140 mm		
Weight:	1,0 kg		

SM sectorshape multiwiring (mm²)
 SS sectorshape singlewiring (mm²)
 th thickness in mm
 tot. length total length in mm
 weight in gr.
 width in mm

Cable cutters

for copper and aluminium cable, needle-bearing action parts, special cutting-geometry, improved eccentric drive, Cu-multiwiring up to 240 mm², Cu-sector shape up to 35 mm, Al-multiwiring up to 300 mm², Al-sector shape up to 35 mm



Art. No. 20 01 13

Cutting range:	Cu/Al wire multi wiring	240 mm ²	35 mm Ø
	Cu/Al wire sector format	240 mm ²	35 mm Ø
	Cu wire fine wiring	300 mm ²	35 mm Ø
	Cu wire fine wiring or telecommunication cable		35 mm Ø
Dimension:	250 x 110 mm		
Weight:	0,9 kg		

Cable cutters

This cable cutter can be used as one hand cutter as well as two hand cutter for cables over 240 mm² for copper and aluminium cable, Cu-multiwiring up to 400 mm², Cu-sector shape up to 52 mm, Al-multiwiring up to 400 mm², Al-sector shape up to 52 mm



Art. No. 20 01 14

Cutting range:	Cu/Al wire multi wiring	400 mm ²	52 mm Ø
	Cu/Al wire sector format	480 mm ²	52 mm Ø
	Cu wire fine wiring	500 mm ²	52 mm Ø
	Cu wire fine wiring or telecommunication cable		52 mm Ø
Dimension:	325 x 145 mm		
Weight:	1,2 kg		

Mechanic cable cutters

Cutting range copper and aluminium cable up to 62 mm Ø max. cross section 840 mm², optimized cutting by eccentric drive system. The needle bearing action will take a high effect on the working action. Not suitable for steel wire.



Art. No. 20 01 15

Cutting range:	Cu/Al wire multi wiring	750 mm ²	62 mm Ø
	Cu/Al wire sector format	750 mm ²	62 mm Ø
	Cu wire fine wiring	750 mm ²	62 mm Ø
	Cu wire fine wiring or telecommunication cable		62 mm Ø
Dimension:	410 x 160 mm		
Weight:	2,0 kg		

Special cable cutters

for computer- and telephone cable up to 75 mm Ø, high cutting performance because of special cutting blade design. Easy to use because of needle bearing mechanic, not suitable for steel wire and heavy wire conductors of power cable



Art. No. 20 01 16

Cutting range:	Cu wire fine wiring	300 mm ²	75 mm Ø
	Cu wire fine wiring or telecommunication cable		75 mm Ø
Dimension:	370 x 175 mm		
Weight:	1,5 kg		

Hand cable cutters

for copper and aluminium cable up to 52 mm Ø



Art. No. 20 01 17

Cutting range:	Cu/Al wire multi wiring	400 mm ²	52 mm Ø
	Cu/Al wire sector format	400 mm ²	52 mm Ø
	Cu wire fine wiring	400 mm ²	52 mm Ø
	Cu wire fine wiring or telecommunication cable		52 mm Ø
Dimension:	280 x 120 mm		
Weight:	0,73 kg		

Special cable cutters

Cu-multiwiring up to 1000 mm², Cu-sector shape up to 80 mm outside-Ø, CU fine wiring up to 1000 mm², Alu up to max. 80 mm outside-Ø, **also suitable for cables with steel sheet jacket and soft steel wire reinforcement, ST 52** with cog cleaning device, integrated in handle



Art. No. 20 01 19

Cutting range:	Cu/Al wire multi wiring	1000 mm ²	80 mm Ø
	Cu/Al wire sector format	1000 mm ²	80 mm Ø
	Cu wire fine wiring	1000 mm ²	80 mm Ø
	Cu wire fine wiring or telecommunication cable	1000 mm ²	80 mm Ø
Dimension:	610 x 190 mm		
Weight:	3,0 kg		

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Hydraulic cutter

guillotine type cutter, adjustable 180° headstock, with carrying bag



Art. No.	length	Ø	weight	PU
21 64 00	380	max. 20	2800	1

Hydraulic cutter

guillotine type cutter, adjustable 180° headstock, with carrying bag



Art. No.	length	Ø	weight	PU
21 64 02	580	max. 40	5300	1

Hydraulic cutter

guillotine type cutter, adjustable 180° headstock, with carrying bag



Art. No.	length	Ø	weight	PU
21 64 04	690	max. 85	7000	1

Hydraulic cable cutter

Cutting head 180°revolvable, manual return, light and compact design, in black plastic case, for aluminium and **steel cable**, max. 1800 N/mm²



Art. No.	length	Ø	weight	PU
21 64 01	385	max. 18	2800	1

Hydraulic cutting headstock

with quick hydraulic connector and bag, for copper or aluminium cables diameter max. 40 mm

cutting headstock for pump Art. No. 21 63 46 and 21 63 50



Art. No.	w-range	Ø	weight	PU
21 64 06	Cu- and Al-cable	max. 40	1500	1

crimp crimp range in mm² length in mm
cross section in mm² lob length of blade in mm
height in mm PU packing unit in pieces

Hydraulic cutting headstock

for copper or aluminium cables diameter max. 85 mm

cutting headstock for pump Art. No. 21 63 46 and 21 63 50



Art. No.	w-range	Ø	weight	PU
21 64 08	Cu- and Al-cable	85	1500	1

Hydraulic cutting headstock

with quick hydraulic connector and bag, for copper or aluminium cables diameter max. 110 mm

cutting headstock for pump Art. No. 21 63 46 and 21 63 50

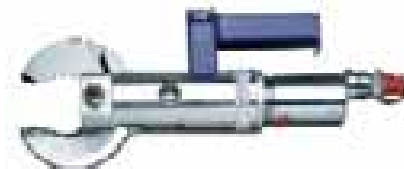


Art. No.	w-range	Ø	weight	PU
21 64 10	Cu- and Al-cable	max. 110	1500	1

Hydraulic cutting headstock

with quick hydraulic connector and bag, for copper or aluminium cables diameter max. 50 mm

cutting headstock for pump Art. No. 21 63 48 and 21 63 52



Art. No.	w-range	Ø	weight	PU
21 64 12	Cu- and Al-cable	max. 50	1500	1

Hydraulic cutting headstock

with quick hydraulic connector and bag, for copper or aluminium cables diameter max. 100 mm

cutting headstock for pump Art. No. 21 63 48 and 21 63 52



Art. No.	w-range	Ø	weight	PU
21 64 14	Cu- and Al-cable	max. 100	1500	1

SM sectorshape multywiring (mm²) tot. length total length in mm
SS sectorshape singlewiring (mm²) weight in gr.
th thickness in mm width in mm

Pneumatic foot pump

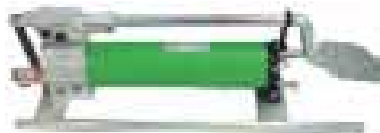
automatic valves for two operation speeds, maximum pressure 700 bar, valve releases automatically when the connection is completed, returning of the dies by push button on the upper part of the press, **with 2 meter hose** (length of hose can be changed on request)



Art. No.	working pressure	weight	PU
21 63 46	max. 700 bar	1300	1

Hydraulic foot pump

material: aluminium alloy, light design, twin-cam pump, automatic switching from closing (ca. 25 ccm/Hub) to working feed rate (ca. 2,5 ccm/Hub), security valve, max. working pressure 700 bar (+ 10/- 30 bar)
without hose



Art. No.	length	width	working pressure	weight	PU
21 63 48	680	205	700 bar	1200	1

Hydraulic high-pressure hose

with steel and quick-socket-connection to **foot pump Art. No. 21 63 48**



Art. No.	length (m)	weight	PU
21 62 38	2	2500	1
21 62 40	3	3000	1
21 62 42	4	5000	1
21 62 44	5	6000	1

Elektro-hydraulic pump

with electric foot switch, completely self-acting, also the release of the dies at the end of the operation, 2 m high pressure tube and hydraulic connectors, for industrial use, where a high level of production is needed, 220 volt



Art. No.	working pressure	weight	PU
21 63 50	max. 700 bar	47000	1

Elektro-hydraulic pump

electric foot switch, completely self-acting, also the release of the dies at the end of the operation, 2 m high pressure tube and hydraulic connectors, for industrial uses, where a high level of production is needed, 220 volt, with foot switch control, pump in a practical, resistant case for working outside



Art. No.	working pressure	weight	PU
21 63 52	700 bar	41000	1



Stripping

Cable strippers, Wire stripping pliers



INFO

Cable strippers

For quick and simple stripping of the outer protective sheath.

Applications:

Work in distribution boards

PCV round cable / moist atmosphere cable / blade for segment and flat cable

NY 4 - 16 mm² - NY 5 - 16 mm² - coaxial and blade round cable

Cable strippers „Kabifix“

for lengthwise and circular cutting, for sheath splitting and stripping of the following kinds of cable: NY 4 - 16 mm² - NY 5 - 16 mm², coaxial cables and round bell wire, also for cutting of Isoflex and PCV tubes with diameters up to 25 mm Ø



Art. No.	cable-Ø	weight	PU
20 00 22	4 - 16	200	2
20 00 24	spare blades	10	5

Cable strippers "Kabifix LWL"

for optic fibre from 6 – 25 mm², for round and longitudinal cuts, inner adjusting screw for setting the cutting depth, replaceable blade, handy ergonomic format.



Art. No.	cable-Ø	weight	PU
20 00 23	6 - 25	200	1

Cable stripping knives

with hook blade for stripping of all kinds of commonly used cable, for splitting sheath and stripping conductors, with automatic change of cutting operation from lengthwise to circular cutting, with slipping free 2 component handle



Art. No.	cable-Ø	weight	PU
20 00 31	8 - 28	100	6

Cable stripping knives

with hook blade, for splitting sheath and stripping conductors, with automatic change of cutting operation from lengthwise to circular cutting, with slipping free 2 component handle



Art. No.	cable-Ø	weight	PU
20 00 38	4 - 16	90	6
20 00 40	8 - 28	95	6
20 00 42	28 - 35	125	6
20 00 44	35 - 50	135	6
20 00 46	spare blades	2	10

crimp crimp range in mm ²	length in mm
cross section in mm ²	lob length of blade in mm
height in mm	PU packing unit in pieces

Strippers

for damproom cable (NYM) 3 x 1,5 - 5 x 1,5 mm², 8 - 13 mm outside-Ø



Art. No.	cable-Ø	weight	PU
20 00 36	8 - 13	80	6

Universal strippers

radial cutting and stripping (up to 20 cm) in one go, practical stripping-off conductors 0,2 - 4,0 mm², with insulation device for conductor and strand from 0,2 - 0,3 - 0,8 mm Ø and 1,5 - 2,5 - 4,0 mm²



Art. No.	cable-Ø	weight	PU
20 00 43	0,2 - 4,0	50	1

Flatcable strippers

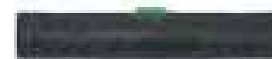
for fast and precise stripping of flat and oval cable, with stripping device for single wires 0,8 - 1,5 - 2,5 mm²



Art. No.	cable-Ø	weight	PU
20 00 37	0,8 - 1,5 - 2,5	80	6

Strippers „Coaxi“

for coaxial cable, 1 end for outside, 1 end for inside insulation



Art. No.	cable-Ø	weight	PU
20 00 35	4,8 - 7,5	80	6

Cable stripper for short-circuit proof lines

Special cable stripper to remove insulation/sheath in short-circuit proof lines (NSFGAFÖU). For the first time the integrated stopper and the optimised properties and design of the cutter allow safe and simple cable stripping of difficult insulation – saves time without damaging the wire



Art. No.	cable-Ø	weight	PU
20 06 30	1,5	80	1
20 06 32	2,5/4,0/6,0	80	1
20 06 34	10,0/16,0	80	1

SM sectorshape multywiring (mm ²)	tot. length . . . total length in mm
SS sectorshape singlewiring (mm ²)	weight in gr.
th thickness in mm	width in mm

PC-Strip

specially constructed for stripping-off computer- and control-cable
Stripping-off: 5,5 - 15,0 mm Ø, cover of PCV-insulated cable
Stripping-off: insulation of conductors with 6 - 26 AWG/4,0 - 0,22 mm²
Suitable for computer- and control cable, telecom cable, system datacable as well as others



Art. No.	weight	PU
20 00 39	100	6

Strippers "Coaxi"

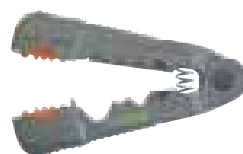
for coaxial cable, RG -58, RG-59/62, RG-6 and 6QS, with 3 interchangeable and adjustable knives, cut-distance 8 and 4 mm



Art. No.	weight	PU
20 00 69	60	1

Optical fibre stripper

Universal tool, optical fibre cable stripper, 2, 8, 5,0 and 8,0 mm, precision cutter for the actual glass fibre, inner insulation stripper 0,254 mm and 0,32 mm



Art. No.	cable-Ø	weight	PU
20 00 67	2,8/5,0/8,0	120	1

Strippers for UTP-/STP-data cable

Universal tool for cutting and stripping- off of radial- and flat- cable, shielded and unshielded cables, adjustable cutting depth. Interchangeable blades, for cable from 3,5 to 9 mm Ø



Art. No.	cable-Ø	weight	PU
20 00 68	3,5 - 9	120	1

Precision stripper PWS Plus

Areas of application: Data processing equipment, control device production, telecommunication, 3 integrated functions:
• precise stripping from AWG 30 (0,25 mm diameter) to AWG 20 (0,8 mm diam.)
• adjustable straight dog up to 15 mm
• wire cutter up to 0,80 mm diameter (CU cable)



Art. No.	cable-Ø	weight	PU
20 00 33	0,25 - 0,80	50	1

Precision stripper

Light and handy precision stripping tool for removing the sleeve from wires and stranded wires in the areas of electronics, computer technology, telecommunication, model construction, adjustable for 6 different wire diameters, with adjustable length stopper.



Art. No.	w-range	weight	PU
20 06 00	0,12/0,16/0,20/0,25/0,30/0,40	26	1
20 06 02	0,25/0,30/0,40/0,50/0,60/0,80	26	1
20 06 04	0,30/0,40/0,50/0,60/0,80/1,00	26	1

Precision stripper

Light and handy precision stripping tool to remove the sleeve from optic fibres (wires) in the application areas of electronics and telecommunication, for 0.18 mm diameter.



Art. No.	cable-Ø	weight	PU
20 06 22	0,18	26	1

Sensor Tool LSA Plus

Standard tool for all data, information and telecommunication cabling with cutting device, hook and blade
Wire diameter: 0,35 - 0,9 mm
Strands diameter: 0,7 - 2,6 mm



Art. No.	cable-Ø	weight	PU
30 03 20	0,35 - 0,9	70	1

Sensor Tool LSA

Standard tool for all data, information and telecommunication cabling with cutting device, hook and blade
Wire diameter: 0,35 - 0,9 mm
Strands diameter: 0,7 - 2,6 mm



Art. No.	cable-Ø	weight	PU
30 03 22	0,35 - 0,9	70	1

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INFO

Wire strippers

A distinction is made between the following processing tools.

Manually adjustable cable strippers

Are set manually to the stripping diameter by feel. Because of this there is a high danger of damaging the wire (HAUPA Article no. 210644+210643).

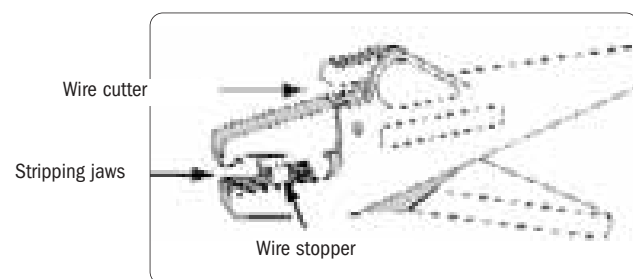
Automatic or self-adjusting cable strippers

For quick and easy cutting and stripping. These tools adjust themselves automatically to the required cable diameter or insulation thickness. It is not possible to damage the wire or the insulation. A length stopper makes repetitive stripping a simple matter.

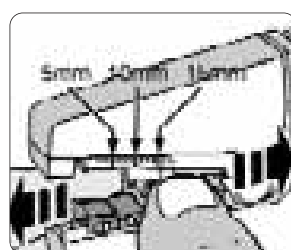
(HAUPA Article no. 211930+210683+ 210690).

Micro precision cable strippers

These are used where fine wires have to be stripped: Data technology, network technology, control technology, telecommunication, electronics, model construction. (HAUPA Article no. 200033+200069+200039+200068).



Squeeze wire stopper from both sides



Set the required stripping length

Set the stripping length



Feed wire to the wire stopper with pliers.



Squeeze pliers handles, pliers close automatically



Stripping slide returns.



Release handles, pliers open automatically.

crimp crimp range in mm²
cross section in mm²
height in mm

length in mm
lob length of blade in mm
PU packing unit in pieces

Wire stripping pliers

for stripping of flexible cords and solid copper conductors. Automatic adjustment on the desired cross section. Damage of copper conductor completely eliminated. After stripping the wire stripper immediately returns to working position.



Art. No.	cable-Ø	length	weight	PU
21 06 80	0,2 - 6	170	180	2
21 06 88	spare blades		5	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.	cable-Ø	length	weight	PU
21 06 82/1	0,5 - 2,5	170	217	1

Quadro complete set in case

in case



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

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

SM sectorshape multywiring (mm²)
SS sectorshape singlewiring (mm²)
th thickness in mm

tot. length total length in mm
weight in gr.
width in mm

Wire stripping pliers DIN 7168

alloyed carbon steel C 45, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chrome plated, polished head (Standard program)



Art. No.	length	mm ²	weight	PU
21 06 44	160	0,6 - 10	170	1

Cable stripper, manual

for copper cables, comfortable handles, multi-function tool incl. cable cutter, precise stripping due to formed blades



Art. No.	length	mm ²	weight	PU
21 06 20	175	0,5/0,75/1,0/1,3/1,5/2,0/2,5	205	1
21 06 22	175	0,5/0,6/0,75/1,0/1,3/1,5	205	1
21 06 24	175	0,25/0,32/0,4/0,5/0,6/0,75	205	1

Cable stripper, manual optical fibre

Cable stripper for glass fibre cable, adjustable cutting depth, multi-function tool, especially for stripping and cutting wires, especially suitable for cutting back optical fibre (outer jacket and buffer), with handle lock.



Art. No.	length	Ø	weight	PU
20 00 57	150	0,18	185	1

Cable stripper, automatic

No wire damage, even fine wires are stripped according to standard, replaceable blade made from special steel, robust metal body, a pressure spring returns the pliers to their original position, suitable for fibre optics, rubber and silicon insulated cables



Art. No.	length	Ø	weight	PU
21 06 91	165	0,5 - 2	341	1
21 06 92	165	1 - 4	341	1

Automatic stripping tongs HAUPA-Special

For fast and precise stripping - even in areas difficult to access. for 0.50 to 6 mm² copper wires, easy handling because conductors can be inserted laterally, setting to cross-section not required, integrated side-cutting pliers for copper wires with 2.8 mm maximum diameter, adjustable straight dog

Areas of application:
Electrotechnics industry, electrical engineering, automotive industry



Art. No.	length	Ø	weight	PU
21 06 81	170	0,5 - 4	75	1

Super wire stripper

Automatic adjustment for conductor diameter, working range: 0,5 bis 4 mm², cutting capacity to 2,0 mm²



Art. No.	length	Ø	weight	PU
21 06 83	170	0,5 - 4	75	1

Wire stripper „High Strip“

suitable for all common stranded and solid conductors from 0,5 - 0,75 - 1,5 - 2,5 - 4 mm², for conductors with hard to strip insulations such as rubber, silicon, PCV, THHN, TWHN, PMMA and lighting wave conductor with PE-cover



Art. No.	Ø	weight	PU
21 06 84	0,5 - 0,75 - 1,5 - 2,5 - 4	100	1

Wire stripper

for wires up to 6 - 16 mm², automatic adjustment to the cross section



Art. No.	Ø	weight	PU
21 06 85	6 - 16	120	1

Flat cable pliers

automatic insulation tool for PCV- insulated flat cable up to max. 12 mm, width suitable for flat cable up to 2,50mm², automatic adjustment to the cross section



Art. No.	Ø	weight	PU
21 06 86	0,75 - 2,5	120	1

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Automatic cable stripper

for stripping of fine-wiring and solid conductors with PCV-insulation as well as 4-6-8 pole telephone- or computer cables, automatic adjustment to the cross section, cutting capacity up to 6 mm²



Art. No.	length	Ø	weight	PU
21 06 90	200	0,03 - 6	180	1

Automatic cable stripper

to strip fine wires and solid wires with PCV insulation
0.08 – 2.5 mm², the maximum adjustable stripping length is 15 mm,
automatic adjustment to the cross section, cutting capacity up to 6 mm²



Art. No.	length	Ø	weight	PU
21 19 28	160	0,08 - 2,5	80	1

Automatic cable stripper

Insulation stripping: 0,08 mm² (AWG 28) up to 6,0 mm² (AWG 10),
PCV-insulated wire and cable
Cutting: 6,0 mm² (AWG 10) standard, 4,0 mm² (AWG 12) copper conductors,
cutting capacity up to 6 mm²



Art. No.	length	Ø	weight	PU
21 19 30	205	0,08 - 6	190	1

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.

Crimping pliers

for end sleeves from 0,25 - 2,5 mm², dull chrome plated, **cross crimping**



Art. No.	length	crimp	weight	PU
21 08 20	140	0,25 - 2,5	120	1

Crimping pliers

for end sleeves from 0,75 - 16 mm², dull chrome plated, **cross crimping**



Art. No.	length	crimp	weight	PU
21 08 24	220	0,75 - 16	200	1

Crimping pliers

for end sleeves from 10 - 35 mm², dull chrome plated, **cross crimping**



Art. No.	length	crimp	weight	PU
21 08 26	225	10 - 35	240	1

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	4 - 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

crimp crimp range in mm²
 cross section in mm²
 height in mm

length in mm
 lob length of blade in mm
 PU packing unit in pieces

SM sectorshape multywiring (mm²)
 SS sectorshape singlewiring (mm²)
 th thickness in mm

tot. length total length in mm
 weight in gr.
 width in mm

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 00	0,08 - 6,0	980	1
21 08 04	0,75 - 10	980	1

Front-Crimping pliers

Crimping from 0,08 to 6 mm², adjustable to 10 mm², 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 mm², with locking device, high transmission and ergonomically formed plastic handle, **square shape**



Art. No.	crimp	weight	PU
21 08 19	0,08 - 6 and 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

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

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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 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



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	0,08 - 0,25	355	1
	0,25 - 1,5		
	1,5 - 2,5		

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

Crimp-Crip pliers, one hand use, with cutting device, **oval crimping**



Art. No.	crimp	weight	PU
21 08 14	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	1,5 - 6	200	1

Combi-Crimping pliers

for insulated and uninsulated tube terminals and connectors from 1,5 - 6 mm², C 45, cutting edges induction hardened, with wire-and bolt-cutters and wire stripper with threaded bolt-cutter, **oval crimping**



Art. No.	crimp	weight	PU
21 08 08	1,5 - 6	215	1

Crimping pliers for uninsulated terminals

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 locking device, extra long handles, **mandrel shape crimping**



Art. No.	crimp	weight	PU
21 07 99	0,5 - 16	600	1

Crimping pliers

for **uninsulated crimping terminals** with wire-and bolt-cutters and wire stripper with threaded bolt-cutter



Art. No.	length	crimp	stripping mm²	weight	PU
21 08 06	210	1,5 - 6	0,75 - 6	205	6

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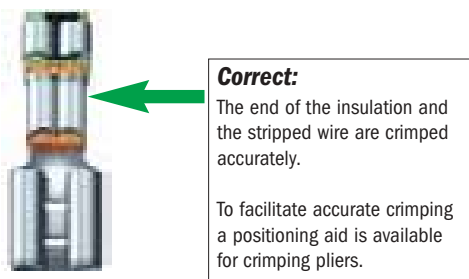
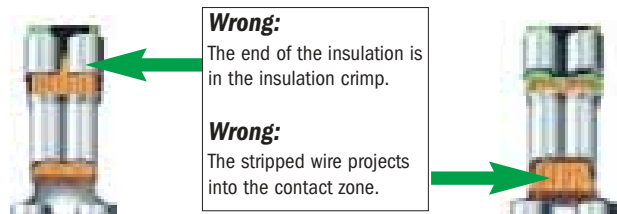
INFO

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.



crimp crimp range in mm²
cross section in mm²
height in mm

length in mm
lob length of blade in mm
PU packing unit in pieces

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	0,5 - 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, for **uninsulated push-on females 90° flag-type**, 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

one hand use, with cutting device, **roll crimping**



Art. No.	crimp		weight	PU
21 08 23	0,14 - 1		315	1

Crimp-Grip pliers

with final-point for processing of uninsulated terminals blades of 0,05 - 6 mm², one way process for contact- and isolation-crimping, with cable cutter and wire stripping device for wire up to 6 mm², **roll crimping**



Art. No.	crimp		weight	PU
21 08 33	0,5 - 6		500	1

SM sectorshape multywiring (mm²)
SS sectorshape singlewiring (mm²)
th thickness in mm

tot. length total length in mm
weight in gr.
width in mm

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**

LI



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**

LI



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 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

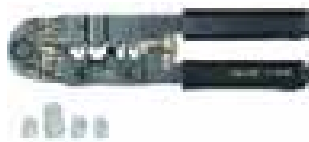
for unshielded modular plugs, inexpensive, lightweight tool for the casual usage, with cable cutter and stripper



Art. No.	crimp	weight	PU
21 08 67	4pole plug, RJ10, 4P4C, RJ14, 4P2C	535	1
21 08 65	6pole plug, 6P/RJ12, RJ11, 6P2C	535	1
21 08 69	8pole plug, RJ45, 8P8C	535	1

Crimping pliers for modular plugs

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



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

Crimping pliers for modular plugs

for unshielded modular plugs, with cable cutter and stripper



Art. No.	crimp	weight	PU
21 08 57	6- and 8pole plug RJ11, RJ12, RJ45	535	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



Art. No.	crimp	weight	PU
21 08 71	4-, 6-, 8pole plug, 6DEC RJ10, RJ11, RJ12, RJ14, RJ45	500	1

crimp crimp range in mm²
cross section . . in mm²
height in mm
length in mm
lob length of blade in mm
PU packing unit in pieces

Crimp-Crimping pliers

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.



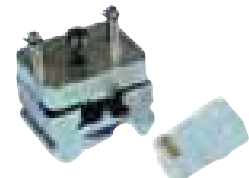
without dies



Art. No.	weight	PU
21 30 00	460	1

Dies

for crimping pliers 21 30 00

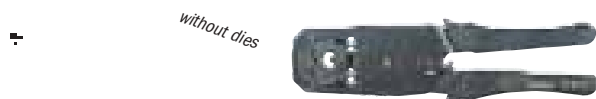


Art. No.	crimp	weight	PU
21 30 02	4pole plug, unshielded	70	1 pair
21 30 04	6pole plug, unshielded	70	1 pair
21 30 06	6DEC, unshielded	70	1 pair
21 30 08	8pole plug, unshielded	70	1 pair
21 30 10	10pole plug, unshielded	70	1 pair
21 30 12	8pole plug, shielded	70	1 pair
21 30 14	10pole plug, shielded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

SM sectorshape multywiring (mm²)
SS sectorshape singlewiring (mm²)
th thickness in mm
tot. length total length in mm
weight in gr.
width in mm

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.



Art. No.	weight	PU
21 30 20	550	1

Manual crimping tool for Western plugs

Professional manual crimping tool for screened and unscreened 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	4pole plug, unshielded	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, „stewart connector“ shielded	100	1 pair
Dies for connector			
21 30 42	für Ø 3,7 mm	100	1 pair
21 30 44	für Ø 4,5 mm	100	1 pair
21 30 46	für Ø 5,2 mm	100	1 pair
21 30 48	für Ø 6,0 mm	100	1 pair

Tool case

for crimping pliers and dies, plastic case, black

Art. No.	weight	PU
21 30 60	550	1

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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...Technology that connects

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

crimp crimp range in mm²
 cross section . . . in mm²
 height in mm
 length in mm
 lob length of blade in mm
 PU packing unit in pieces

Crimping and cutting products for optical fibre cable

214000

MOSFET optical fibre cable 2.3 mm cutting tool to cut optical fibre (POF), with cutting device for cutting to length, integrated stripping unit for the outer jacket, cutting device for precise cutting of the core, no subsequent polishing required, incl. 10 replacement blades

214002

MOSFET crimping tool to process MOSFET connectors, linear operating mode from 4 sides, precise formation of the crimp stamp, integrated contact positioning, integrated contact determiner, with positioner for fibre-optical waveguide designed for AMP plugs

214004

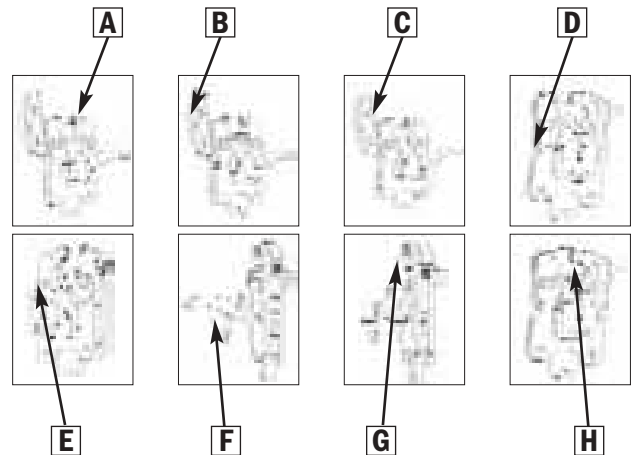
Basic body for 214000 + 214002, tool-less fast-change system, ergonomically formed soft handle, short handle design

214006

Range of cutting tools
 incl. case and article
 no. 21 40 00/02/04



Operating instructions 21 40 00



	Blade change	Cutting to length	Cable stripping	Cutting
1	Pull socket pins (A)	Place cable in length cutting station (D)	Open clamping lever (E)	Insert new blade
2	Open blade retaining clip (B) to stopper	Close tool	Insert cable in stripper station (F) until it sits flush with the back of the tool	Insert optical fibre into cutting station (H) until insulation touches clamping jaw
3	Change blade (C)	Slowly remove cable	Close tool	Close tool slowly
4	Close blade retaining clip	Open tool	Open slowly and disengage	Remove cable while tool is closed
5	Insert socket pins (A)	—	Move clamping lever in the direction of the tool (G)	Open tool
6	—	—	Remove optical fibre	—
7	—	—	Open tool	—

Art. No.	weight	PU
21 40 06	890	1

SM sectorshape multywiring (mm²)
 SS sectorshape singlewiring (mm²)
 th thickness in mm
 tot. length . . . total length in mm
 weight in gr.
 width in mm

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

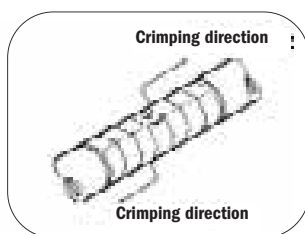
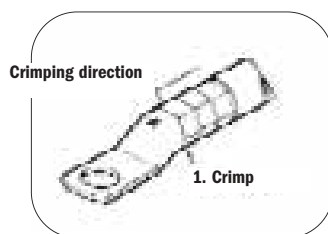
Before notching, the cable must be stripped according to the insertion length (+10% due to change in length of the crimping sleeve).

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)



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

simple using, with puncher and adjustable screw, for different sections, handle PCV-coated, **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 05K	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 locking device, with extra long handles, **mandrel shape crimping**



Art. No.	crimp	weight	PU
21 08 30	0,75 - 16	600	1

Crimping pliers

for uninsulated tube terminals and connectors, with built-in rotatable profile disk, **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 mm²



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 mm²



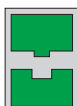
Oval crimp

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 mm²



Trapezoid crimp

for crimping wire-end sleeves and twin wire-end sleeves.
Applications: 0,14 - 185 mm²



Square crimp

for crimping wire-end sleeves and twin wire-end sleeves.
Applications : 0,14 - 6 mm²



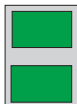
WM crimp

for crimping tube terminals "standard"
Applications : 10 - 400 mm²



Rounding

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



Cutting dies

Crimping pliers

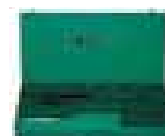
C-form crimping head 360° adjustable, with interchangeable dies



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
210856/K	metal box	2100 1

Dies for crimping pliers 21 08 56

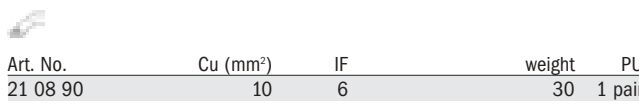
for tube terminals and connectors „standard-range“, hexagon crimping



Art. No.	Cu (mm ²)	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 ²)	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

crimp crimp range in mm²
cross section . . in mm²
height in mm

length in mm
lob length of blade in mm
PU packing unit in pieces

SM sectorshape multywiring (mm²)
SS sectorshape singlewiring (mm²)
th thickness in mm

tot. length . . . total length in mm
weight in gr.
width in mm

Dies for crimping pliers 21 08 56

for aluminium cable lugs, hexagon crimping



Art. No.	Al (mm²)	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.	(mm²)	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 (for 3- and 4-sectorwires)

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.	(mm²)	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.	(mm²)	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.	(mm²)	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 terminal, mandrel shape crimping



Art. No.	(mm²)	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

Tip

You will find a wide range of cable lugs and wire-end sleeves from page 55 onwards.



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



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

Product-specific features

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

Metal box

for storing of crimping pliers and dies



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

crimp crimp range in mm²
cross section . . . in mm²
height in mm

length in mm
lob length of blade in mm
PU packing unit in pieces

SM sectorshape multywiring (mm²)
SS sectorshape singlewiring (mm²)
th thickness in mm

tot. length . . . total length in mm
weight in gr.
width in mm

Crimping dies for 21 50 00

The crimping dies for these crimping pliers are available in the following formats.



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.



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.



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.



Trapezoid crimp

for crimping wire-end sleeves and twin wire-end sleeves.



WM crimp

for crimping tube terminals „standard“

Crimping dies

for crimping terminals and connectors, standard range, WM crimping



Art. No.	Al (mm ²)	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



21 50 14-22



21 50 24

Art. No.	(mm ²)		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 ²)	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 ²)	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

Tip

You will find a wide range of cable lugs and wire-end sleeves from page 55 onwards.

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.

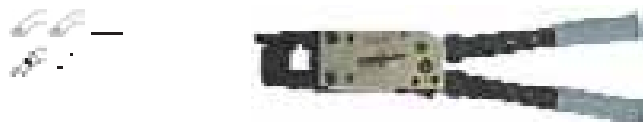


Product-specific features

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

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



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

Metal box

for storing of crimping pliers and dies



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

crimp crimp range in mm ²	length in mm
cross section . . in mm ²	lob length of blade in mm
height in mm	PU packing unit in pieces

SM sectorshape multywiring (mm ²)	tot. length . . . total length in mm
SS sectorshape singlewiring (mm ²)	weight in gr.
th thickness in mm	width in mm

Crimping dies for 21 51 00

The crimping dies for these crimping pliers are available in the following formats.



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.



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.



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.



Trapezoid crimp

for crimping wire-end sleeves and twin wire-end sleeves.



WM crimp

for crimping tube terminals "standard"



Rounding

for sectorwires 90° and 120°

Crimping dies for 21 51 00

for crimping terminals and connectors, standard range, WM crimping



Art. No.	(mm ²)	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



Art. No.	(mm ²)	weight	PU
21 51 14	6 - 70	350	1
21 51 16	10/16/25/35	350	1
21 51 18	16/25/35/50	350	1
21 51 20	6/50	400	1
21 51 22	70	400	1

Please order the top and bottom tools separately.



Crimping dies for 21 51 00

for insulated crimping terminals, oval crimping



Art. No.	(mm ²)	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 ²)	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 ²)	weight	PU
21 51 58	6	150	1 pair
21 51 60	10	150	1 pair
21 51 62	16	150	1 pair
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

Tip

You will find a wide range of cable lugs and wire-end sleeves from page 55 onwards.

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...Technology that connects

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.



Product-specific features

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

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



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		4600	1

crimp crimp range in mm²
cross section in mm²
height in mm
length in mm
lob length of blade in mm
PU packing unit in pieces

SM sectorshape multywiring (mm²)
SS sectorshape singlewiring (mm²)
th thickness in mm
tot. length total length in mm
weight in gr.
width in mm

Crimping dies for 21 52 00

The crimping dies for these crimping pliers are available in the following formats.



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.



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.



Trapezoid crimp

for crimping wire-end sleeves and twin wire-end sleeves.



WM crimp

for crimping tube terminals "standard"

Crimping dies for 21 52 00

for crimping terminals and connectors, standard range, WM crimping



Art. No.	(mm ²)	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



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

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 ²)	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
21 52 66	150	200	1 pair
21 52 68	185	200	1 pair

Tip

You will find a wide range of cable lugs and wire-end sleeves from page 55 onwards.

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



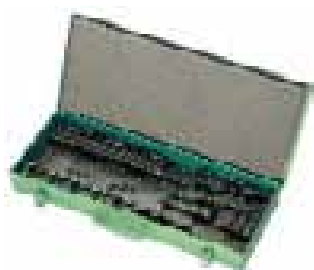
Art. No.	crimp	weight	PU
21 53 00	10 - 400	4800	1

Product-specific features

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

Metal box

for storing of crimping pliers and dies



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

crimp crimp range in mm²
cross section . . . in mm²
height in mm

length in mm
lob length of blade in mm
PU packing unit in pieces

SM sectorshape multywiring (mm²)
SS sectorshape singlewiring (mm²)
th thickness in mm

tot. length . . . total length in mm
weight in gr.
width in mm

Crimping dies for 21 53 00

The crimping dies for these crimping pliers are available in the following formats.



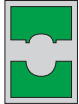
Hexagonal crimp

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.



WM crimp

for crimping tube terminals "standard"



Rounding

for sectorwires 90° and 120°

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



Crimping dies for 21 53 00

for crimping terminals and connectors, standard range, WM crimping



Art. No.	(mm²)	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

Tip

You will find a wide range of cable lugs and wire-end sleeves from page 55 onwards.



Hydraulic crimping tools

Crimping without effort
Universal use
Low maintenance



INFO

Hydraulic crimping tools

These hydraulic crimping tools are produced from high-quality materials and distinguish themselves by a perfect processing of the connectors.

All crimping dies usable in these models are right-angled. They consist of two, in the external dimensions to identical parts, so that they can be used either in the butt or the head. The crimping dies are compatible with all crimping tools of this construction form.

The working heads are around 180 ° swivelling for the relieved adaptation to the executive operation.

The crimping tools must never be used without the crimping dies. This could cause serious damage.

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.

Extent of supply 21 55 86



1 Crimping tool, 1 loading charger, 2 batteries, carrying belt, in black metal suitcase

without dies - please, order separately

Cordless crimping tools

Crimping head 180 ° swivelling, with fast opening, manual return flow after perfect pressure, in black metal suitcase, 1 loading charger, 2 batteries, carrying belt, **without dies**



Art. No. 21 55 86

Pressure:	55 kN
Crimping range:	DIN cable lugs
	standard copper
	aluminium
Crimping time:	6 sec.
Charging time for batteries:	1 h
Battery voltage:	12 V
Battery capacity:	2 Ah
Working pressure:	600 bar
Dimension:	330 x 230 mm
Weight:	3,4 kg
Weight Set:	8,0 kg

Hydraulic hand pliers

Crimping head 180 ° swivelling, manual return flow after perfect pressure, light and compact construction, in black metal suitcase, **without dies**



Art. No. 21 57 55

Pressure:	55 kN
Crimping range:	DIN cable lugs
	standard copper
	aluminium
Dimension:	350 x 120 mm
Weight:	2,4 kg
Weight Set:	4,6 kg

Hydraulic crimping headstock

H-crimping head, with fast opening, for crimping tool 21 55 86 and 21 57 55 and compatible with hydraulic pumps on page 53



Art. No. 21 57 60

Pressure:	55 kN
Crimping range:	DIN cable lugs:
	standard copper
	aluminium
Working pressure:	max. 700 bar
Dimension:	185 x 75 mm
Weight:	1,5 kg

Crimping dies for 21 55 86

The crimping dies for these crimping pliers are available in the following formats.



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.



Rounding

for sectorwires 90° and 120°

Crimping dies for 21 55 86

aluminium DIN, hexagon crimping



Art. No.	Al	IF	weight	PU
21 55 36/A	25	12	100	1 pair
21 55 38/A	35	14	100	1 pair
21 55 40/A	50	16	100	1 pair
21 55 42/A	70	18	100	1 pair
21 55 44/A	95/120	22	100	1 pair
21 55 46/A	150	25	100	1 pair

Crimping dies for 21 55 86

for rounding of square conductors

Art. No.	SM	SE	weight	PU
21 55 58/A	25	35	100	1 pair
21 55 60/A	35	50	100	1 pair
21 55 62/A	50	70	100	1 pair
21 55 64/A	70	95	100	1 pair
21 55 66/A	95	120	100	1 pair
21 55 68/A	120	150	100	1 pair
21 55 70/A	150	185	100	1 pair
21 55 72/A	185	240	100	1 pair

Crimping dies for 21 55 86

for copper connectors, hexagon crimping



Art. No.	Cu	weight	PU
21 55 10/A	10/185	100	1 pair
21 55 12/A	16/150	100	1 pair
21 55 14/A	25/120	100	1 pair
21 55 16/A	35/95	100	1 pair
21 55 18/A	50/70	100	1 pair
21 55 20/A	6	100	1 pair
21 55 21/A	240	100	1 pair

Crimping dies for 21 55 86

copper DIN, hexagon crimping



Art. No.	Cu	IF	weight	PU
21 55 22/A	10/120	6/20	100	1 pair
21 55 24/A	25/95	10/18	100	1 pair
21 55 26/A	35/50	12/14	100	1 pair
21 55 28/A	16/70	8/16	100	1 pair
21 55 30/A	6/150	5/22	100	1 pair
21 55 32/A	185	25	100	1 pair

Tip

You will find a wide range of cable lugs and wire-end sleeves from page 55 onwards.



Hydraulic hand pliers

crimp head 360° revolving, manual return flow after perfect pressure, light and compact construction, universal tool for crimping Cu cable lugs and connectors, broad application spectrum, **no change of dies needed, mandrel shape crimping**



Art. No. 21 66 60

Pressure:	60 kN
Crimping range:	standard copper: 16 - 300 mm ²
	connectors standard: 16 - 120 mm ²
	standard copper fine wiring: 16 - 300 mm ²
	connectors standard fine wiring: 16 - 120 mm ²
Max. diameter cable:	32 mm
Dimension:	560 mm
Weight:	5,0 kg



Product-specific features

can be used anywhere
minimum strength required
broad application spectrum
light and compact construction
no crimping dies needed

Hydraulic hand pliers

H-crimping head, 180° revolving, for changeable crimping dies according DIN 48083 BI 4, twin piston pump with automatic change for two different speeds (high and low pressure) and maximum pressure valve, **without dies**



Art. No. 21 58 00

Pressure:	50 kN
Crimping range:	DIN cable lugs: 185 mm ²
	standard copper 240 mm ²
	aluminium 150 mm ²
Dimension:	370 x 120 mm
Weight:	2,0 kg

Transport case

for Hydraulic hand pliers 21 58 00



Art. No.		weight	PU
21 58 02	metal box	1500	1

Crimping dies for 21 58 00

The crimping dies for these crimping pliers are available in the following formats.



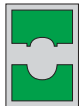
Hexagonal crimp

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.



Trapezoid crimp

for crimping wire-end sleeves and twin wire-end sleeves.



Rounding

for sectorwires 90° and 120°

Crimping dies for 21 58 00

for rounding of square conductors

Art. No.	SM	SE	weight	PU
21 55 58	25	35	100	1 pair
21 55 60	35	50	100	1 pair
21 55 62	50	70	100	1 pair
21 55 64	70	95	100	1 pair
21 55 66	95	120	100	1 pair
21 55 68	120	150	100	1 pair
21 55 70	150	185	100	1 pair
21 55 72	185	240	100	1 pair

Crimping dies for 21 58 00

for end sleeves, trapezoid crimping

Art. No.	(mm ²)	weight	PU
21 55 74	16	200	1 pair
21 55 76	25	200	1 pair
21 55 78	35	200	1 pair
21 55 80	50	200	1 pair
21 55 82	70	200	1 pair
21 55 84	95	200	1 pair

Crimping dies standard for 21 58 00

copper standard, hexagon crimping

Art. No.	Cu	weight	PU
21 58 52	10/16	100	1 pair
21 58 54	25/35	100	1 pair
21 58 56	50/70	100	1 pair
21 58 58	95/120	100	1 pair
21 58 59	150	100	1 pair
21 58 60	185	100	1 pair
21 58 61	240	100	1 pair

Crimping dies DIN for 21 58 00

aluminium and copper, hexagon crimping

Art. No.	IF	Cu	Al	weight	PU
21 58 62	6/8	10/16	-	100	1 pair
21 58 64	10/12	25/35	16/25	100	1 pair
21 58 66	14/16	50/70	35/50	100	1 pair
21 58 68	18/20	95/120	70	100	1 pair
21 58 69	22	150	95/120	100	1 pair
21 58 70	25	185	150	100	1 pair
21 58 72	28	-	185	100	1 pair

Tip

You will find a wide range of cable lugs and wire-end sleeves from page 55 onwards.

INFO

Hydraulic crimping tools

Hydraulic crimping tools are made from high quality materials and are characterised by perfect processing of the connectors.

All the crimping dies used in these models are semi-circular, regardless of the type of crimping. They consist of two connectable parts with identical outer dimensions, so that they can be placed either in the piston or the head. The procedure for inserting the crimping dies is identical for assembly of both the piston and the head. The dies are fed into the guide to the stopper at the blocking pin. The pin is then retracted using the unblocking button and the die is fed in further to the point where it is held by the pin. To remove the dies, in both cases the respective unblocking button must be pressed. The crimping dies are compatible with all crimping tools of this type.

The working heads can be turned 180° to allow the respective operation to be executed.

The crimping tools must never be used without the crimping dies. This could cause serious damage.

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.

Cordless crimping tools

Crimping head 180° swivelling, with fast opening, manual return flow after perfect pressure, in black metal suitcase, 1 loading charger, 2 batteries, carrying belt, **without dies**



Art. No. 21 66 00

Pressure:	120 kN	
Crimping range:	DIN cable lugs:	240 mm²
	standard copper	300 mm²
	aluminium	185 mm²
	type C	120 mm²
	connectors	150 mm²
Crimping time:	10 sec.	
Charging time for batteries:	1 h	
Battery voltage:	12 V	
Battery capacity:	2 Ah	
Working pressure:	700 bar	
Dimension:	400 x 270 mm	
Weight:	7,0 kg	
Weight Set:	13,6 kg	

crimp crimp range in mm²
 cross section in mm²
 height in mm
 length in mm
 lob length of blade in mm
 PU packing unit in pieces

Extent of supply 21 66 00



1 Crimping tool, 1 loading charger, 2 batteries, carrying belt, in black metal suitcase

without dies - please, order separately

Hydraulic hand pliers

Crimping head 180° swivelling, manual return flow after perfect pressure, light and compact construction, in black metal suitcase, **without dies**



Art. No. 21 61 24

Pressure:	120 kN	
Crimping range:	DIN cable lugs:	240 mm ²
	standard copper	300 mm ²
	aluminium	185 mm ²
	type C	120 mm ²
	connectors	150 mm ²
Dimension:	620 x 150 mm	
Weight:	5,6 kg	
Weight Set:	10,2 kg	

Hydraulic crimping headstock

C-crimping head, with fast opening, for crimping tool 21 66 00 and 21 61 24 and compatible with hydraulic pumps on page 53



Art. No. 21 60 04

Pressure:	120 kN	
Crimping range:	DIN cable lugs:	240 mm ²
	standard copper	300 mm ²
	aluminium	185 mm ²
	type C	120 mm ²
	connectors	150 mm ²
Working pressure	max. 700 bar	
Dimension:	185 x 75 mm	
Weight:	1,5 kg	

SM sectorshape multywiring (mm²)
 SS sectorshape singlewiring (mm²)
 th thickness in mm
 tot. length total length in mm
 weight in gr.
 width in mm

Crimping dies

Crimping dies for 21 66 00

copper standard, hexagon crimping



Art. No.	Cu	weight	PU
21 60 08	10	200	1 pair
21 60 10	16	200	1 pair
21 60 12	25	200	1 pair
21 60 14	35	200	1 pair
21 60 16	50	200	1 pair
21 60 18	70	200	1 pair
21 60 20	95	200	1 pair
21 60 22	120	200	1 pair
21 60 24	150	200	1 pair
21 60 26	185	200	1 pair
21 60 28	240	200	1 pair
21 60 30	300	200	1 pair

Crimping dies DIN for 21 66 00

für copper and aluminium, hexagon crimping



Art. No.	IF	Cu	Al	weight	PU
21 60 36	6	10	—	200	1 pair
21 60 38	8	16	—	200	1 pair
21 60 40	10	25	—	200	1 pair
21 60 42	12	35	16/25	200	1 pair
21 60 44	14	50	35	200	1 pair
21 60 46	16	70	50	200	1 pair
21 60 48	18	95	70	200	1 pair
21 60 50	20	120	—	200	1 pair
21 60 52	22	150	95/125	200	1 pair
21 60 54	25	185	150	200	1 pair
21 60 56	28	240	185	200	1 pair

Crimping dies for 21 66 00

for rounding of square conductors



Art. No.	(mm ²)	weight	PU
21 60 88	50	300	1 pair
21 60 90	70	300	1 pair
21 60 92	95	300	1 pair
21 60 94	120	300	1 pair
21 60 96	150	300	1 pair
21 60 98	185	300	1 pair
21 61 00	240	300	1 pair

Crimping dies for 21 66 00

for end sleeves, trapezoid crimping



Art. No.	Cu (mm ²)	weight	PU
21 61 12	50	200	1 pair
21 61 14	70	200	1 pair
21 61 16	95	200	1 pair
21 61 18	120	200	1 pair
21 61 20	150	200	1 pair

Crimping dies for 21 66 00

for insulated tube terminals, oval crimping



Art. No.	Cu (mm ²)	weight	PU
21 61 26	10	200	1 pair
21 61 28	16	200	1 pair
21 61 30	25	200	1 pair
21 61 32	35	200	1 pair
21 61 34	50	200	1 pair
21 61 36	70	200	1 pair
21 61 38	95	200	1 pair
21 61 40	120	200	1 pair
21 61 42	150	200	1 pair
21 61 44	185	200	1 pair
21 61 46	240	200	1 pair
21 61 47	300	200	1 pair

Crimping dies for 21 66 00

C-connectors, oval crimping



Art. No.	Cu (mm ²)	weight	PU
21 61 48	16/25	200	1 pair
21 61 50	35	200	1 pair
21 61 52	50/70	200	1 pair
21 61 54	95	200	1 pair
21 61 56	120	200	1 pair

Tip

You will find a wide range of cable lugs and wire-end sleeves from page 55 onwards.

haupa

...Technology that connects

INFO

Hydraulic crimping tools

Hydraulic crimping tools are made from high quality materials and are characterised by perfect processing of the connectors.

All the crimping dies used in these models are semi-circular, regardless of the type of crimping. They consist of two connectable parts with identical outer dimensions, so that they can be placed either in the piston or the head. The dies are fed into the guide to the stopper at the blocking pin. The pin is then retracted using the unblocking button and the die is fed in further to the point where it is held by the pin. To remove the dies, in both cases the unblocking button must be pressed. The crimping dies are compatible with all crimping tools of this type. When the crimping has been completed successfully the top part of the crimping head can be removed to allow large diameter cables to be removed easily.

The working heads can be turned 180° to allow the respective operation to be executed.

The crimping tools must never be used without the crimping dies. This could cause serious damage.

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.

Cordless crimping tools

Crimping head 180° swivelling, with fast opening, manual return flow after perfect pressure, in black metal suitcase, 1 loading charger, 2 batteries, carrying belt, **without dies**



Art. No. 21 65 00

Pressure:	120 kN
Crimping range:	DIN cable lugs: 240 mm ²
	standard copper 300 mm ²
	aluminium 185 mm ²
	type C 120 mm ²
	connectors 300 mm ²
Crimping time:	10 sec.
Charging time for batteries:	1 h
Battery voltage:	12 V
Battery capacity:	2 Ah
Working pressure:	700 bar
Dimension:	410 x 270 mm
Weight:	6,9 kg
Weight Set:	11,5 kg

crimp crimp range in mm²
 cross section in mm²
 height in mm

length in mm
 lob length of blade in mm
 PU packing unit in pieces

Extent of supply 21 65 00



1 Crimping tool, 1 loading charger, 2 batteries, carrying belt, in black metal suitcase

without dies - please, order separately

Hydraulic hand pliers

Crimping head 180° swivelling, manual return flow after perfect pressure, in black metal suitcase, **without dies**



Art. No. 21 59 46

Pressure:	120 kN
Crimping range:	DIN cable lugs: 240 mm ²
	standard copper 300 mm ²
	aluminium 185 mm ²
	type C 120 mm ²
	connectors 300 mm ²
Dimension:	620 x 150 mm
Weight:	4,9 kg
Weight Set:	9,5 kg

Hydraulic crimping headstock

H-crimping head, with fast opening, for crimping tool 21 65 00 and 21 59 46 and compatible with all hydraulic pumps on page 53



Art. No. 21 59 80

Pressure:	120 kN
Crimping range:	DIN cable lugs: 240 mm ²
	standard copper 300 mm ²
	aluminium 185 mm ²
	type C 120 mm ²
	connectors 300 mm ²
Working pressure:	max. 700 bar
Dimension:	185 x 75 mm
Weight:	1,5 kg

SM sectorshape multywiring (mm²)
 SS sectorshape singlewiring (mm²)
 th thickness in mm

tot. length ... total length in mm
 weight in gr.
 width in mm

Crimping dies

Crimping dies for 21 65 00

copper standard, hexagon crimping



Art. No.	Cu	weight	PU
21 60 08	10	200	1 pair
21 60 10	16	200	1 pair
21 60 12	25	200	1 pair
21 60 14	35	200	1 pair
21 60 16	50	200	1 pair
21 60 18	70	200	1 pair
21 60 20	95	200	1 pair
21 60 22	120	200	1 pair
21 60 24	150	200	1 pair
21 60 26	185	200	1 pair
21 60 28	240	200	1 pair
21 60 30	300	200	1 pair

Crimping dies DIN for 21 65 00

für copper and aluminium, hexagon crimping



Art. No.	IF	Cu	Al	weight	PU
21 60 36	6	10	—	200	1 pair
21 60 38	8	16	—	200	1 pair
21 60 40	10	25	—	200	1 pair
21 60 42	12	35	16/25	200	1 pair
21 60 44	14	50	35	200	1 pair
21 60 46	16	70	50	200	1 pair
21 60 48	18	95	70	200	1 pair
21 60 50	20	120	—	200	1 pair
21 60 52	22	150	95/120	200	1 pair
21 60 54	25	185	150	200	1 pair
21 60 56	28	240	185	200	1 pair

Crimping dies for 21 65 00

for rounding of square conductors



Art. No.	(mm ²)	weight	PU
21 60 88	50	300	1 pair
21 60 90	70	300	1 pair
21 60 92	95	300	1 pair
21 60 94	120	300	1 pair
21 60 96	150	300	1 pair
21 60 98	185	300	1 pair
21 61 00	240	300	1 pair

Crimping dies for 21 65 00

for end sleeves, trapezoid crimping



Art. No.	Cu (mm ²)	weight	PU
21 61 12	50	200	1 pair
21 61 14	70	200	1 pair
21 61 16	95	200	1 pair
21 61 18	120	200	1 pair
21 61 20	150	200	1 pair

Crimping dies for 21 65 00

for insulated tube terminals, oval crimping



Art. No.	Cu (mm ²)	weight	PU
21 61 26	10	200	1 pair
21 61 28	16	200	1 pair
21 61 30	25	200	1 pair
21 61 32	35	200	1 pair
21 61 34	50	200	1 pair
21 61 36	70	200	1 pair
21 61 38	95	200	1 pair
21 61 40	120	200	1 pair
21 61 42	150	200	1 pair
21 61 44	185	200	1 pair
21 61 46	240	200	1 pair
21 61 47	300	200	1 pair

Crimping dies for 21 65 00

C-connectors, oval crimping



Art. No.	Cu (mm ²)	weight	PU
21 61 48	16/25	200	1 pair
21 61 50	35	200	1 pair
21 61 52	50/70	200	1 pair
21 61 54	95	200	1 pair
21 61 56	120	200	1 pair

Tip

You will find a wide range of cable lugs and wire-end sleeves from page 55 onwards.

haupa

...Technology that connects

Hydraulic crimping headstock

for uninsulated terminals 95 - 630 mm², pressure 250 kN, for crimping dies hexagon shape according to DIN 48083 page 3 and 4, compatible with all hydraulic pumps on page 53



Art. No. 21 62 36

Pressure:	250 kN
Crimping range:	DIN cable lugs: 630 mm ²
	aluminium 400 mm ²
Working pressure:	max. 700 bar
Dimension:	185 x 75 mm
Weight:	6,4 kg

Hydraulic crimping headstock set

Art. No. 21 62 36 Hydraulic crimping headstock
Art. No. 21 62 38 Hydraulic high-pressure hose, 2 m
Art. No. 21 63 48 Hydraulic foot pump



Art. No.	Crimp	weight	PU
21 62 50	95 - 630	21000	1

Transport case

black metal box for hydraulic crimping headstock set



Art. No.	weight	PU
21 62 51	transport case 1500	1

Crimping dies for 21 62 36

hexagon crimping dies according DIN 48083 page 4 suitable for DIN-connection material according to DIN. Cu ze (free of tensile)



Art. No.	Cu	IF	weight	PU
21 23 72	95	18	100	1 pair
21 23 76	120	20	100	1 pair
21 23 80	150	22	100	1 pair
21 23 82	185	25	100	1 pair
21 23 84	240	28	100	1 pair
21 23 88	300	32	100	1 pair
21 23 92	400	38	100	1 pair
21 23 94	500	42	100	1 pair
21 23 96	630	44	100	1 pair

Crimping dies for 21 62 36

hexagon crimping dies according DIN 48083 page 4 suitable for DIN-connection material according to DIN.Cu ze (free of tensile)



Art. No.	Al	IF	weight	PU
21 23 72	70	18	100	1 pair
21 23 80	95/120	22	100	1 pair
21 23 82	150	25	100	1 pair
21 23 84	185	28	100	1 pair
21 23 88	240	32	100	1 pair
21 23 90	300	34	100	1 pair
21 23 92	400	38	100	1 pair
21 23 96	500	44	100	1 pair

Hydraulic crimping headstock + cylinder

for terminals and butt connectors to 1000 mm², together with an adapter it is possible to use all other crimping dies of the other crimping headstock, low weight in comparison to the crimping range, excellent price relation, snap head, extensionable system to bend and punch electric bus bars socket-joint connection, crimping head can be separated from the crimping cylinder, both parts will be delivered separately, please order separately with the nos. stated below, for all hydraulic pumps on this page



Art. No. 21 63 00/21 63 02

Pressure:	200 kN
Crimping range:	DIN cable lugs
	standard copper
	aluminium
Working pressure:	max. 700 bar
Dimension:	185 x 75 mm
Weight:	1,5 kg

Crimping dies for 21 63 02

standard, WM crimping



Art. No.	(mm ²)	weight	PU
21 63 04	120	600	1 pair
21 63 06	150	600	1 pair
21 63 08	185	800	1 pair
21 63 10	240	1100	1 pair
21 63 12	300	1200	1 pair
21 63 14	400	1200	1 pair
21 63 16	500	1200	1 pair
21 63 18	630	1300	1 pair

Crimping dies for 21 63 02

DIN, hexagon crimping
for crimping terminals and connectors DIN 46235 and for Al terminals and Al connectors



Art. No.	Cu	Al	IF	weight	PU
21 63 20	120	-	20	800	1 pair
21 63 22	150	95/120	22	800	1 pair
21 63 24	185	150	25	800	1 pair
21 63 26	240	185	28	900	1 pair
21 63 28	300	240	32	900	1 pair
21 63 30	-	300	34	900	1 pair
21 63 32	400	-	38	900	1 pair
21 63 34	500	-	42	1100	1 pair
21 63 36	625	-	44	1100	1 pair
21 63 38	800	-	52	1200	1 pair
21 63 40	1000	-	58	1200	1 pair

Hydraulic foot pump

material: aluminium alloy, light design, twin-cam pump, automatic switching from closing (ca. 25 ccm/Hub) to working feed rate (ca. 2,5 ccm/Hub), security valve, max. working pressure 700 bar (+ 10/- 30 bar)

without hose



Art. No.	length	width	working pressure	weight	PU
21 63 48	680	205	700 bar	12000	1

Hydraulic high-pressure hose

with steel and quick-socket-connection
to foot pump Art. No. 21 63 48



Art. No.	length (m)	weight	PU
21 62 38	2	2500	1
21 62 40	3	3000	1
21 62 42	4	5000	1
21 62 44	5	6000	1

Elektro-hydraulic pump

electric foot switch, completely self-acting, also the release of the dies at the end of the operation, 2 m high pressure tube and hydraulic connectors, for industrial uses, where a high level of production is needed, 220 volt, with foot switch control, pump in a practical, resistant case for working outside



Art. No.	working pressure	weight	PU
21 63 52	700 bar	41000	1

INFO

Electro-hydraulic punching tools

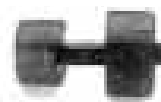
The electrohydraulic punching tools are made from high quality materials and are characterised by perfect and problem-free punching of metal sheet to a thickness of 3 mm.

The tool is very comfortable to work with. At the start of the operation a hole with a diameter of 11 mm is drilled in the position where the punching process is to take place. Then the matrix with the required diameter is placed on the threaded pin of the piston and the pin is fed through the drilled hole. The stamp is turned on the threaded pin until it reaches the stopper on the metal sheet. The punching process is now started by pressing the forward feed button.

With the 10 mm pin holes up to a diameter of 31 mm can be punched. If larger holes are to be punched the 20 mm pin must be used and a hole with a diameter of at least 22.5 mm must be drilled.

Punching dies for 21 67 00

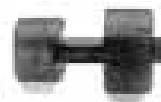
metric



Art. No.	metrisch	weight	PU
21 67 10	16	200	1 pair
21 67 12	20	200	1 pair
21 67 14	25	200	1 pair
21 67 16	32	200	1 pair
21 67 18	40	200	1 pair
21 67 20	50	200	1 pair

Punching dies for 21 67 00

PG



Art. No.	PG	Ø	weight	PU
21 67 21	9	15,2	200	1 pair
21 67 22	11	18,6	200	1 pair
21 67 24	13	20,4	200	1 pair
21 67 26	16	22,5	200	1 pair
21 67 28	21	28,3	200	1 pair
21 67 30	29	37	200	1 pair
21 67 32	36	47	200	1 pair
21 67 34	42	54	200	1 pair
21 67 36	48	60	200	1 pair

Electro-hydraulic punching tools

with safety valve to prevent damage, in black metal case, incl. 1 loading charger, 2 batteries, carrying belt, **without dies**

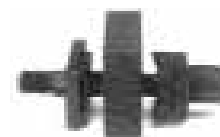


Art. No. 21 67 00

Pressure:	60 kN
Punching range:	from 15 – 65 mm Ø, from 21 x 28 to 68 x 68 mm for metal sheet up to 3 mm thick from 15 – 110 mm diameter, from 21 x 28 to 92 x 92 mm for metal sheet up to 2.5 mm thick
Charging time for batteries:	1 h
Battery voltage:	12 V
Battery capacity:	2 Ah
Working pressure:	600 bar
Dimension:	190 x 230 mm
Weight:	3,3 kg
Weight Set:	7,9 kg

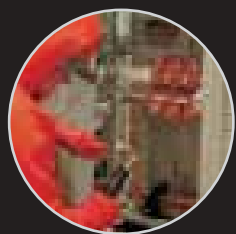
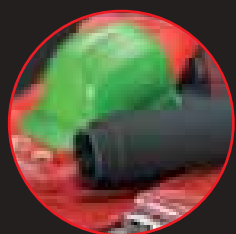
Punching dies for 21 67 00

square



Art. No.	□	weight	PU
21 67 40	46 x 46	200	1 pair
21 67 42	68 x 68	200	1 pair
21 67 44	92 x 92	200	1 pair
21 67 46	47 x 71	200	1 pair

**Safety tools EN 60900
Protection Equipment**



2-component VDE Electricians' screwdrivers



blade of chrome vanadium steel, with 2-component handle of PP/TPE, insulated



1000 V EN 60900



Art. No.	lob	CW	length	weight	PU
10 19 10	75	2,5	155	25	12
10 19 12	100	3,0	185	30	12
10 19 14	100	3,5	185	30	12
10 19 16	100	4,0	195	50	12
10 19 18	125	5,5	230	75	12
10 19 20	150	6,5	255	100	12
10 19 22	175	8,0	295	180	12
10 19 24	200	10,0	320	270	12

2-component VDE cross slotted screwdrivers Phillips



blade of chrome vanadium steel, with 2-component handle of PP/TPE, insulated



1000 V EN 60900



Art. No.	size	M - M	lob	length	weight	PU
10 19 40	0	1,6 - 2	60	145	55	12
10 19 42	1	2 - 3	80	175	65	12
10 19 44	2	3 - 5,2	100	205	105	12
10 19 46	3	5,2 - 7,2	150	270	165	12

2-component VDE cross slotted screwdrivers Pozidriv



blade of chrome vanadium steel, with 2-component handle of PP/TPE, insulated



1000 V EN 60900



Art. No.	size	M - M	lob	length	weight	PU
10 19 50	0	1,6 - 2	60	135	55	12
10 19 52	1	2 - 3	80	175	65	12
10 19 54	2	3 - 5,2	100	205	105	12
10 19 56	3	5,2 - 7,2	150	270	165	12

2-component VDE screwdrivers Tx



with security pin, blade of chrome vanadium steel, with 2-component handle of PP/TPE, insulated



1000 V EN 60900



Art. No.	size	lob	length	weight	PU
10 18 50	TX 08	100 x 3	185	70	12
10 18 52	TX 09	100 x 3	185	70	12
10 18 54	TX 10	100 x 3	195	75	12
10 18 56	TX 15	100 x 3,5	195	75	12
10 18 58	TX 20	100 x 4	195	75	12
10 18 60	TX 25	125 x 4,5	220	85	12
10 18 62	TX 27	125 x 5,5	230	90	12
10 18 64	TX 30	150 x 6,5	255	100	12
10 18 66	TX 40	175 x 8	295	120	12

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

INFO

Screwdriver range, individually tested

Screwdriver range according to the new VDE Norm EN 60900. All blades are made of high quality chrome vanadium steel, black, red-covered, Polypropylen moulded. This ergonomic moulded 2-component handles from PP/TPE material guarantees a high security with normal power transmission. Every screwdriver is individually tested and marked according to the new VDE-Norm.

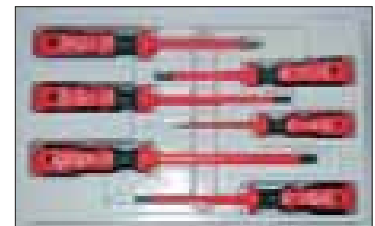
2-component VDE screwdrivers set



blade of chrome vanadium steel, with 2-component handle of PP/TPE, insulated, 6-pieces
Content: VDE Electricians' screwdriver 2,5 x 75 mm, 4 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm, VDE cross slotted screwdrivers Phillips or Pozidriv size 1 and 2



1000 V EN 60900



Art. No.	set	weight	PU
10 19 99	Phillips 6-pieces	550	1
10 19 99PZ	Pozidriv 6-pieces	550	1

2-component VDE socket wrenches DIN 7445



chrome vanadium steel, insulated, for hexagon nuts, with 2-component handle of PP/TPE



1000 V EN 60900



Art. No.	size	M	lob	length	weight	PU
10 25 20	4	2	125	220	76	6
10 25 22	5	2,6	125	220	77	6
10 25 24	5,5	3	125	220	76	6
10 25 26	6	3,5	125	220	79	6
10 25 28	7	4	125	230	112	6
10 25 30	8	5	125	230	144	6
10 25 32	9	-	125	230	116	6
10 25 34	10	6	125	230	118	6
10 25 36	11	7	125	245	175	6
10 25 38	12	-	125	245	178	6
10 25 40	13	8	125	245	188	6
10 25 44	17	10	125	245	237	6

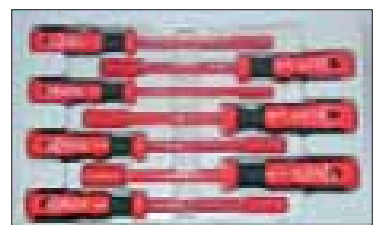
2-component VDE socket wrenches set DIN 7445



chrome vanadium steel, insulated acc. EN 60900, for hexagon nuts, with 2-component handle of PP/TPE
Contents: 1 piece each 5 - 5,5 - 7 - 8 - 10 - 11 - 13 mm



1000 V EN 60900



Art. No.	set	weight	PU
10 25 12	7-pieces	910	1

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

VDE Electricians' screwdrivers



of chrome vanadium steel, with red PPN-handle, insulated



1000 V EN 60900



Art. No.	lob	CW	length	weight	PU
10 09 10	75	2,5	155	25	12
10 09 12	100	3,0	180	30	12
10 09 14	100	3,5	180	30	12
10 09 16	100	4,0	190	50	12
10 09 18	125	5,5	225	75	12
10 09 20	150	6,5	250	100	12
10 09 22	175	8,0	285	180	12
10 09 24	200	10,0	325	270	12

VDE cross slotted screwdrivers Phillips



of chrome vanadium steel, with red PPN-handle, insulated



1000 V EN 60900



Art. No.	size	M - M	lob	length	weight	PU
10 09 40	0	1,6 - 2	60	130	55	12
10 09 42	1	2 - 3	80	170	65	12
10 09 44	2	3 - 5,2	100	200	105	12
10 09 46	3	5,2 - 7,2	150	260	165	12

VDE screwdrivers Pozidriv



of chrome vanadium steel, with red PPN-handle, insulated



1000 V EN 60900



Art. No.	size	M - M	lob	length	weight	PU
10 09 50	0	1,6 - 2	60	130	55	12
10 09 52	1	2 - 3	80	170	65	12
10 09 54	2	3 - 5,2	100	200	105	12
10 09 56	3	5,2 - 7,2	150	260	165	12

VDE screwdrivers Tx



for torx screws with security pin, blade of chrome vanadium steel, insulated



1000 V EN 60900



Art. No.	size	lob	weight	PU
10 08 50	TX 08	100 x 3	75	12
10 08 52	TX 09	100 x 3	75	12
10 08 54	TX 10	100 x 3	75	12
10 08 56	TX 15	100 x 3,5	80	12
10 08 58	TX 20	100 x 4	80	12
10 08 60	TX 25	125 x 4,5	90	12
10 08 62	TX 27	125 x 5,5	90	12
10 08 64	TX 30	150 x 6,5	100	12
10 08 66	TX 40	175 x 8	120	12

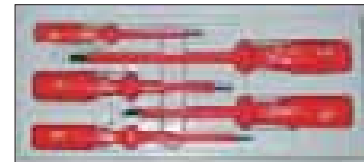
VDE screwdrivers set



of chrome vanadium steel, with red PPN-handle, 5-pieces, VDE Electricians' screwdriver 2,5 x 75 mm, 4 x 100 mm, 6,5 x 150 mm, VDE cross slotted screwdrivers **Phillips** or **Pozidriv** size 1 and 2



1000 V EN 60900



Art. No.	set	weight	PU
10 09 98	Phillips 5-pieces	500	1
10 09 98PZ	Pozidriv 5-pieces	500	1

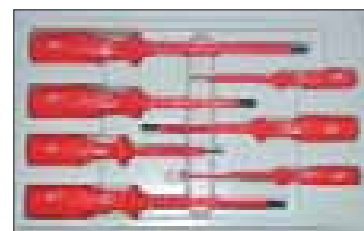
VDE screwdrivers set



of chrome vanadium steel, with red PPN-handle, 7-pieces, VDE Electricians' screwdriver 2,5 x 75 mm, VDE Electricians' screwdriver 3 x 100, 4 x 100, 5,5 x 125, 6,5 x 150 mm, VDE cross slotted screwdrivers **Phillips** or **Pozidriv** size 1 and 2



1000 V EN 60900



Art. No.	set	weight	PU
10 09 99	Phillips 7-pieces	500	1
10 09 99PZ	Pozidriv 7-pieces	500	1

VDE socket wrenches DIN 7445



chrome vanadium steel, insulated, for hexagon nuts, with red PPN-handle



1000 V EN 60900



Art. No.	size	M	lob	length	weight	PU
10 05 20	4	2	125	220	76	6
10 05 22	5	2,6	125	220	77	6
10 05 24	5,5	3	125	220	76	6
10 05 26	6	3,5	125	220	79	6
10 05 28	7	4	125	230	112	6
10 05 30	8	5	125	230	144	6
10 05 32	9	-	125	230	116	6
10 05 34	10	6	125	230	118	6
10 05 36	11	7	125	240	175	6
10 05 38	12	-	125	240	178	6
10 05 40	13	8	125	240	188	6
10 05 44	17	10	125	250	237	6

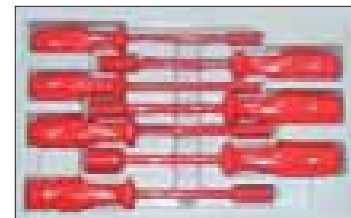
VDE socket wrenches set DIN 7445



chrome vanadium steel, insulated acc. EN 60900, for hexagon nuts, with red PPN-heavy handle, 1 piece each 5 - 5,5 - 7 - 8 - 10 - 11 - 13 mm



1000 V EN 60900



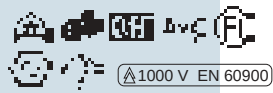
Art. No.	set	weight	PU
10 05 12	7-pieces	910	1

haupa®

...with safety better

Combination pliers DIN 5244 VDE EN 60900

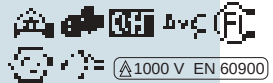
alloyed carbon steel, C 45, oil-hardened, cutting edges induction hardened, for soft and hard wire up to 150 kp/mm² (N 1500), german pattern, polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



Art. No.	length	weight	PU
21 00 56	185	350	6
21 00 58	205	400	6

Diagonal cutters DIN 5238 B VDE EN 60900

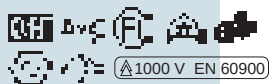
swedish pattern, high alloyed carbon steel, oil-hardened, C 60, cutting edges induction hardened, for soft and hard wire up to 200 kp/mm² (N 2000), polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



Art. No.	length	CC-Ø	weight	PU
21 01 00	165	3	260	6
21 01 02	185	3,5	360	6

Diagonal cutters DIN 5238 B VDE EN 60900

swedish pattern, high alloyed carbon steel, oil-hardened, C 60, cutting edges induction hardened, for soft and hard wire up to 200 kp/mm² (N 2000), polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red

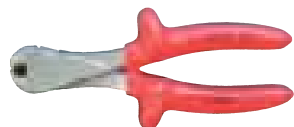


Art. No.	length	CC-Ø	weight	PU
21 01 10	240	3,5	500	6

Front cutters VDE EN 60900

alloyed carbon steel, cutting edges induction hardened, polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red

A 1000 V EN 60900



Art. No.	length	weight	PU
21 03 03	160	350	6

Short flat nose pliers DIN 5258 VDE EN 60900

C 45, alloyed carbon steel, oil-hardened, polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



Art. No.	length	weight	PU
21 02 70	160	250	6

Short round nose pliers DIN 5257 VDE EN 60900

C 45, alloyed carbon steel, oil-hardened, polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



Art. No.	length	weight	PU
21 02 96	160	250	6

Long chain nose pliers DIN 5236 A VDE EN 60900

alloyed carbon steel, C 45, oil-hardened, cutting edges induction hardened, for any wire up to 150 kp/mm² (N 1500), polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



Art. No.	length		weight	PU
21 03 88	200	straight	260	6
21 03 90	200	45° angled nose	260	6

Wire stripping pliers DIN 5232 VDE EN 60900

C 45, oil-hardened, with spring and adjustment screw, for cable of 0,2 - 6 mm Ø, polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



Art. No.	length	weight	PU
21 06 48	160	240	6

Water pump pliers DIN 5231 D EN 60900

chrome vanadium, 31 Cr V3, box-joint, burner hole, teeth induction hardened, finger protection, oil-hardened, 2-coloured coating-insulation - inside yellow/outside red



Art. No.	length	weight	PU
21 05 83	300	380	6

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

Water pump pliers EN 60900

heavy pattern, made of chrome vanadium steel, with roll, polished chrome plated, 2-coloured coating-insulation - inside yellow/outside red



⚠ 1000 V EN 60900



Art. No.	length	weight	PU
21 05 88	260	580	6

Pliers set VDE EN 60900

C 45, oil-hardened, 2-coloured coating-insulation - inside yellow/outside red
Pliers polished chrome plated, 4-pieces

- Combination pliers 185 mm
- Diagonal cutters 165 mm
- Long chain nose pliers, straight 200 mm
- Wire stripping pliers 160 mm



⚠ 1000 V EN 60900



Art. No.	set	weight	PU
22 01 26	4-pieces	750	1

Stripping pliers EN 60900

fully insulated acc. to VDE EN 60900, for cutting and stripping off cable sheaths of PVC, PE and VPE, limited cutting deep and therefore no damage on the inside conductors, easy handling, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V EN 60900



Art. No.	Ø	length	weight	PU
20 01 49	26 - 52	200	690	1

Automatic wire stripper 1000 V EN 60900

1000 volt individually tested wire stripper according to EN 60900. For stripping flexible wires and solid copper wires. The wire stripper adjusts automatically to the cross section of the wire. Stripping range: 0,5 to 6 mm²

⚠ 1000 V EN 60900



Art. No.	mm ²	weight	PU
21 16 83	0,5 - 6	75	1



INFO

New 2 component VDE pliers

From midyear 2004 on we will deliver the here listed pliers with our new 2 component handles. They will be made of elastomer with a special ergonomic design which is comfortable and nonskid.



**From midyear 2004
on with new
2 component handle**

Combination pliers DIN 5244 VDE EN 60900

german pattern, comfort grip, alloyed carbon steel, C 45, oil-hardened, cutting edges induction hardened, for soft and hard wire up to 150 kp/mm² (N 1500), polished chrome plated, sheathed handles



△ 1000 V EN 60900



Art. No.	length	weight	PU
21 12 00	185	350	6
21 12 02	205	400	6

Diagonal cutters DIN 5238 B VDE EN 60900

swedish pattern, high alloyed carbon steel, oil-hardened, C 60, cutting edges induction hardened, for soft and hard wire up to 200 kp/mm² (N 2000), polished chrome plated, sheathed handles



△ 1000 V EN 60900



Art. No.	length	CC-Ø	weight	PU
21 12 04	165	3	250	6
21 12 06	185	3,5	320	6

Heavy duty diagonal cutters DIN 5238 A VDE EN 60900

C 60, cutting edges induction hardened, polished chrome plated, sheathed handles



△ 1000 V EN 60900



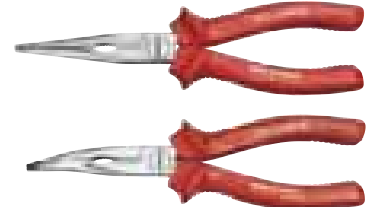
Art. No.	length	CC-Ø	weight	PU
21 12 17	170	2,5	230	6
21 12 19	205	3,0	285	6

Long chain nose pliers DIN 5236 A VDE EN 60900

alloyed carbon steel, C 45, oil-hardened, cutting edges induction hardened, for any wire up to 150 kp/mm² (N 1500), polished chrome plated, sheathed handles



△ 1000 V EN 60900



Art. No.	length		weight	PU
21 12 08	200	straight	260	6
21 12 10	200	45° angled nose	260	6

Short flat nose pliers DIN 5258 VDE EN 60900

C 45, oil-hardened, polished chrome plated, short body, sheathed handles



△ 1000 V EN 60900



Art. No.	length	weight	PU
21 12 12	160	250	6

Short round nose pliers DIN 5257 VDE EN 60900

C 45, alloyed carbon steel, oil-hardened, polished chrome plated, sheathed handles



△ 1000 V EN 60900



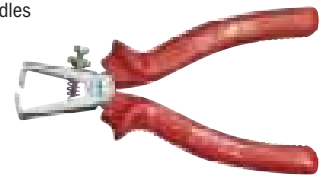
Art. No.	length	weight	PU
21 12 16	160	250	6

Wire stripping pliers DIN 5232 VDE EN 60900

C 45, oil-hardened, with spring and adjustment screw, for cable of 0,2 - 6 mm Ø, polished chrome plated, sheathed handles



△ 1000 V EN 60900



Art. No.	length	weight	PU
21 12 14	160	240	6

Pliers set VDE EN 60900

with VDE-safety-isolation, best Quality, pliers polished chrome plated, 4-pieces

- Combination pliers 185 mm
- Side cutter 165 mm
- Long chain nose pliers 200 mm
- Wire stripping pliers 160 mm



△ 1000 V EN 60900



Art. No.	set	weight	PU
22 01 23	4-pieces	780	1

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

VDE pliers, coating-insulated, head insulated

Combination pliers DIN ISO 5244 VDE EN 60900

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

 1000 V EN 60900



Art. No.	length	weight	PU
21 02 63	185	290	1
21 02 64	205	385	1

Diagonal cutters DIN ISO 5749 VDE EN 60900

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

 1000 V EN 60900



Art. No.	length	weight	PU
21 03 01	160	270	1
21 03 02	180	330	1

Long chain nose pliers DIN ISO 5754 VDE EN 60900

straight, working head insulated, 2-coloured coating-insulation - inside yellow/outside red

 1000 V EN 60900



Art. No.	length	weight	PU
21 02 66	160	170	1
21 02 67	200	225	1

Long chain nose pliers DIN ISO 5745 VDE EN 60900

angled nose, working head insulated, 2-coloured coating-insulation - inside yellow/outside red

 1000 V EN 60900



Art. No.	length	weight	PU
21 02 97	200	210	1

Plan grip pliers VDE EN 60900

working head insulated, made of special alloy steel, long, flat, plain gripping jaws, round edges, 2-coloured coating-insulation - inside yellow/outside red

 1000 V EN 60900



Art. No.	length	weight	PU
21 02 98	200	215	1

Short flat nose pliers DIN ISO 5745 VDE EN 60900

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

 1000 V EN 60900



Art. No.	length	weight	PU
21 02 99	160	200	1

Long chain nose pliers DIN ISO 5745 VDE EN 60900

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

 1000 V EN 60900



Art. No.	length	weight	PU
21 03 00	160	205	1

Wire stripping pliers DIN 5232 VDE EN 60900

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

 1000 V EN 60900



Art. No.	length	weight	PU
21 02 65	160	180	1

Cable cutters EN 60900

of carbon-steel, maximum cutting capacity due to special cutting-geometry, with VDE insulation, 2-coloured coating-insulation - inside yellow/outside red



△ 1000 V EN 60900

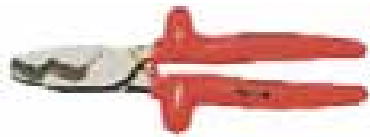


Art. No.	length	Ø	solid	flex. mm ²	weight	PU
20 01 20	215	20	25	70	325	1

Double edged cable cutters EN 60900

slight strain due to optimal lever-transmission, edges with precise grind for easy and proper cutting by one hand handling, opening 20 mm, forged of special carbon-steel, for copper and alu-cable, 2-coloured coating-insulation - inside yellow/ outside red

△ 1000 V EN 60900

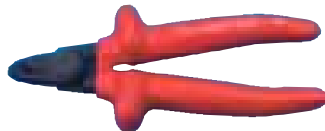


Art. No.	length	Ø	mm ²	weight	PU
20 01 28	200	20	50	365	1

Cable cutters EN 60900

Grave version of vanadium steel, annealed, opening 15 mm, 2-coloured coating-insulation - inside yellow/outside red

△ 1000 V EN 60900

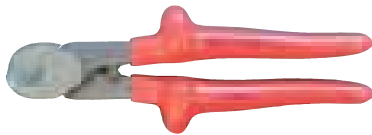


Art. No.	length	Ø	solid	flex. mm ²	weight	PU
20 01 27	160	15	16	50	250	1

Cable cutters EN 60900

Long version, slight strain, one and two hand handling, proper cutting due to precise grind, forged of special carbon-steel, 2-coloured coating-insulation - inside yellow/outside red

△ 1000 V EN 60900



Art. No.	length	mm ²	weight	PU
20 01 29	240	up to 50	430	1

Cable cutters EN 60900

Chrome-vanadium, shear edge, fatigue-free handling due to spring joint, self-opening, with locking mechanism, enormous cutting performance allows effort-free operation, for copper and aluminium cable

△ 1000 V EN 60900



Art. No.	length	mm ²	weight	PU
20 00 86/VDE	170	up to 10	230	1
20 00 88/VDE	230	up to 15	485	1

Cable cutters EN 60900

with leverage construction, cutter of alloyed special steel, forged, replaceable, squeeze-free cutting. Working range: for Copper- and Alu-cable max. 40 mm Ø

△ 1000 V EN 60900



Art. No.	length	Ø	mm ²	weight	PU
20 01 10	600	26	150	2700	1
20 01 41	700	33	180	3300	1
20 01 47	800	40	240	3900	1

Cable cutters EN 60900

forged cutting head of special carbon-steel, light strain, easy and proper cutting, adjustable joint, opening 27 mm; working range: Copper- and Alu-cable up to 150 mm²

△ 1000 V EN 60900



Art. No.	length	mm ²	weight	PU
20 01 23	500	150	1480	1

Wire rope and cable cutters EN 60900

with lever action, blades of high alloyed interchangeable, cutting capacity steel-alu-ropes up to 80 mm², for copper- and alucable, opening approx 10 mm

△ 1000 V EN 60900



Art. No.	length	mm ²	weight	PU
20 00 81	700	80	1900	1
20 00 81/MK		spare cutting head	350	1

Wire rope and cable cutters EN 60900

without transmission, blades of high quality special steel, forged, replaceable, opening 20 mm, insulated, according to EN 60900
Working range: steel-alu-rope up to 120 mm², Copper- and Alu-cable

△ 1000 V EN 60900



Art. No.	length	mm ²	weight	PU
20 01 30	600	120	3000	1
20 01 32		spare cutting head	340	1

Cable cutter with a snap VDE EN 60900

Laser-cut components made of special carbon steel, oil-hardened, for optimal precision, CNC-ground cutting type, inductively hardened for maximum cutting performance, Screwed joint connections, re-adjustable for longer durability as well as, VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red, for cables to 16,9 mm Ø (70 mm²)

△ 1000 V EN 60900



Art. No.	length	Ø	mm ²	weight	PU
20 10 02/VDE	180	to 16,9	70	230	6

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

VDE ratchet cable cutters with cover EN 60900

One-hand cable cutter with ratchet, optimal lever-transmission, encapsulated head, for copper and alu-cable, opening 25 mm, 2-coloured coating-insulation - inside yellow/outside red

⚡ 1000 V EN 60900



Art. No.	length	mm ²	weight	PU
20 01 09	290	240	900	1

Hacksaw frames EN 60900

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

⚡ 1000 V EN 60900



Art. No.	length	size of blade	weight	PU
11 05 58	200	150	210	1

Hacksaw frames EN 60900

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

⚡ 1000 V EN 60900



Art. No.	length	size of blade	th	weight	PU
11 05 59	350	300	18 x 8	1005	1

Cable knives EN 60900

with strong, straight blade, tough elastic plastic handle, blade protector



⚡ 1000 V EN 60900



Art. No.	lob	weight	PU
20 00 00	50	75	6

Cable knives EN 60900

with hookformed blade, tough elastic plastic handle, blade protector



⚡ 1000 V EN 60900



Art. No.	lob	weight	PU
20 00 02	35	70	6

Electricians' knives EN 60900

with insulated hookblade, tough elastic plastic handle, blade protector



⚡ 1000 V EN 60900



Art. No.	lob	weight	PU
20 00 03	35	70	6

Cable knives EN 60900

especially for phases. blade protector



⚡ 1000 V EN 60900



Art. No.	lob	weight	PU
20 00 04	35	70	6

Cable knives EN 60900

with straight, part insulated, strong blade, tough elastic plastic handle, blade protector



⚡ 1000 V EN 60900



Art. No.	lob	weight	PU
20 00 05	40	70	6

Cable knives EN 60900

with hook blade, specially for slitting of damproom cable, tough elastic plastic handle, blade protector



⚡ 1000 V EN 60900



Art. No.	lob	weight	PU
20 00 07	50	70	6

Cable stripping knives EN 60900

tough elastic plastic handle, blade protector, angled



⚡ 1000 V EN 60900



Art. No.	lob	weight	PU
20 00 09	50	95	6

Cable stripping knives EN 60900

tough elastic plastic handle, blade protector, straight



⚡ 1000 V EN 60900



Art. No.	lob	weight	PU
20 00 13	50	95	6



Voltage tester "Profi"

Two-pole voltage tester with LED display

AC and DC voltage measurements from 12 to 690V, polarity, rotary field, continuity tests to 500kOhm and FI/RCD tests can be carried out. The HAUPA voltage tester is by his high type of protection (IP65) also usable in rough conditions.

- optical warning before contact life-threatening voltage
- display for AC and DC voltage from 12 to 690Volt
- display range 12, 24, 48, 120, 230, 400 and 690 Volt
- acoustical continuity test from 0 to 500kOhm
- Schuko and CEE one-hand operating
- Phase detector >100V AC
- CAT III 690V
- Rotary field
- Automatic load
- Captive probe-tip protection
- 30mA FI/RCD triggering
- IP 65 (dust and water proof)
- Approved and certificated TÜV/GS IEC/EN61243-3
- 3 years warranty



New



Art. No.	test	weight	PU
10 38 06	12 - 690	185	1

Circuit tester „Control“

Continuity tester with LED torch lamp function, contactless voltage detector, and test leads. The tester comes with five professional functions for working with electrical wiring:

- optical continuity test low-ohm (0-300hm)
- acoustical continuity test high-ohm (0-2500hm)
- high efficient LED torch lamp
- contactless voltage detector
- phase detector
- IP44 shower water proof
- CAT II 400V
- Approved and certificated TÜV/GS IEC/EN61010
- 3 years warranty



Art. No.	weight	PU
10 06 66	145	1

Voltage tester "Basic"

The two pole voltage tester display DC and AC voltage from 6 to 400V in seven steps with LED indicator (6, 12, 24, 50, 120, 230 and 400V), Polarity test and phase location against the ground wire is also able. The robust cabinet with the gummed handle is well in the hand. The "Basic" tester works without any battery. It gets his tension from the test object.

- DC and AC voltage from 6 to 400V
- Phase detector against ground wire
- Polarity check
- Protection IP 44
- TÜV/GS approval in process
- CAT III 400V
- 0 - 60 Hz
- 3 years warranty



Art. No.	test	weight	PU
10 38 00	6 - 400	145	1

Voltage testers VDE/GS

5 mm surrounding hand-protection, clip of insulating material, fixed installed scale with dark background



Art. No.	test	length	weight	PU
10 07 00	125 - 250	190	25	1

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

T-Handle socket wrenches



chrome vanadium steel, insulated, for hexagon nuts, DIN 7440, VDE 0680/2/3.78, 0682/201, 2-coloured coating-insulation - inside yellow/ outside red



⚡ 1000 V EN 60900



Art. No.	size	shank	handle	weight	PU
11 00 00	10	200	160	310	1
11 00 02	11	200	160	315	1
11 00 04	12	200	160	320	1
11 00 06	13	200	160	320	1
11 00 08	14	200	160	325	1
11 00 10	17	200	160	380	1
11 00 12	19	200	160	420	1
11 00 22	11	300	160	370	1
11 00 24	12	300	160	375	1
11 00 26	13	300	160	380	1
11 00 28	14	300	160	385	1
11 00 30	17	300	160	560	1
11 00 32	19	300	160	680	1
11 00 34	22	300	160	810	1
11 00 36	24	300	160	990	1

Right angle Allen keys



chrome vanadium steel, for hexagon socket screws, full insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red



⚡ 1000 V EN 60900



Art. No.	size	of key	weight	PU
11 00 42	3		40	1
11 00 44	4		40	1
11 00 46	5		50	1
11 00 48	6		70	1
11 00 50	8		130	1
11 00 52	10		180	1
11 00 54	12		210	1

T-handle Allen keys



chrome vanadium steel, for screws with hexagon inserts, full insulated acc. to VDE 0682/201, 2-coloured coating-insulation - inside yellow/outside red



⚡ 1000 V EN 60900



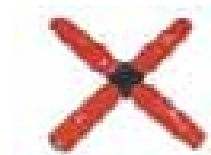
Art. No.	size	of key	weight	PU
11 00 60	5		165	1
11 00 62	6		175	1
11 00 64	8		200	1

Cross type socket wrenches

chrome vanadium steel, no contact with steel insert, fully insulated acc. to VDE 0680/2/3.78, 2-coloured coating-insulation - inside yellow/outside red



⚡ 1000 V EN 60900



Art. No.	size	size of key	length	weight	PU
11 00 70	1	10-11-14-17	200	225	1
11 00 74	3	11-12-13-17	200	225	1
11 00 76	4	10-13-14-17	200	225	1
11 00 78	5	11-13-14-17	200	225	1
11 00 80	6	13-17-19-22	200	360	1

Counter hold spanners

chrome vanadium steel (31 CrV 3), 2-coloured coating-insulation - inside yellow/outside red.

⚡ 1000 V EN 60900



Art. No.	size	length	weight	PU
11 00 81	10	200	120	1
11 00 83	12	200	120	1
11 00 84	13	200	140	1
11 00 85	14	250	150	1
11 00 87	16	260	250	1
11 00 89	17	270	255	1
11 00 91	18	265	250	1
11 00 93	19	270	275	1
11 00 95	20	275	300	1
11 00 97	22	275	300	1
11 00 99	24	270	350	1

Single ended spanners

chrome vanadium steel, fully insulated acc. to VDE EN 60900, offset at 15°, 2-coloured coating-insulation - inside yellow/outside red



⚡ 1000 V EN 60900



Art. No.	size	length	th	weight	PU
11 02 60	6	75	3	10	1
11 02 62	7	80	3,5	20	1
11 02 64	8	85	3,5	20	1
11 02 66	9	100	4	20	1
11 02 68	10	120	5	30	1
11 02 70	11	130	5,5	40	1
11 02 72	12	140	5,5	50	1
11 02 74	13	155	6	60	1
11 02 76	14	170	6	70	1
11 02 78	17	185	6,5	100	1
11 02 80	19	210	7,5	160	1
11 02 82	22	230	8,5	230	1
11 02 84	24	250	9,5	250	1
11 02 86	27	290	11,5	260	1
11 02 88	30	345	13	380	1
11 02 90	32	350	15	400	1

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Ring spanners

chrome vanadium steel, fully insulated acc. to VDE EN 60900, offset at 75°, 2-coloured coating-insulation - inside yellow/outside red



⚡ 1000 V EN 60900



Art. No.	size	length	weight	PU
11 03 00	6	140	40	1
11 03 02	7	140	40	1
11 03 04	8	150	40	1
11 03 06	9	155	40	1
11 03 08	10	160	70	1
11 03 10	11	170	80	1
11 03 12	12	180	120	1
11 03 14	13	195	130	1
11 03 16	14	205	150	1
11 03 18	17	240	180	1
11 03 20	19	260	240	1
11 03 22	22	280	300	1
11 03 24	24	280	340	1

Adjustable wrenches to DIN 3117 A

steel forged, 2-coloured coating-insulation - inside yellow/outside red



⚡ 1000 V EN 60900



Art. No.	length	a-range	weight	PU
11 05 55	200	to 26 mm	370	2
11 05 56	250	to 31 mm	460	2
11 05 57	300	to 36 mm	550	2

Torque wrenches

3/8"

reversible ratchet system, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red



⚡ 1000 V EN 60900

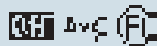


Art. No.	square	a-range	length	weight	PU
11 00 56 EN	3/8"	5 - 27 Nm	280	920	1
11 00 65 EN	3/8"	5 - 50 Nm	370	1070	1

Torque wrenches

1/2"

reversible ratchet system, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red



⚡ 1000 V EN 60900



Art. No.	square	a-range	length	weight	PU
11 00 58 EN	1/2"	5 - 27 Nm	280	930	1
11 00 66 EN	1/2"	5 - 50 Nm	370	1100	1
11 00 67 EN	1/2"	20 - 100 Nm	460	1200	1
11 00 68 EN	1/2"	60 - 220 Nm	530	1300	1

Reversible ratchets

1/2" 3/8"

full insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red



⚡ 1000 V EN 60900



Art. No.	square	length	weight	PU
11 03 31 EN	3/8"	190	130	1
11 03 32 EN	1/2"	255	500	1

Locked torque wrenches

3/8"

reversible ratchet system, adjustable valve between 5-27 Nm, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red Please specify the attitude you need.

⚡ 1000 V EN 60900



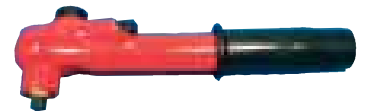
Art. No.	square	length	weight	PU
30 03 10 EN	3/8"	280	900	1

Locked torque wrenches

1/2"

reversible ratchet system, adjustable valve between 5-27 Nm, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red Please specify the attitude you need.

⚡ 1000 V EN 60900



Art. No.	square	length	weight	PU
30 03 12 EN	1/2"	280	1000	1

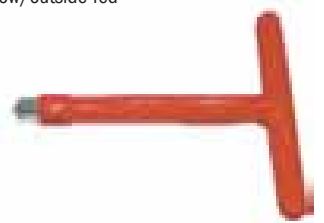
Socket T-wrenches

3/8" 1/2"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated according to VDE 0680/2/3.78, 2-coloured coating-insulation - inside yellow/outside red



⚡ 1000 V EN 60900



Art. No.	screws M	shank	handle	weight	PU
11 00 39 EN	3/8"	200	160	500	1
11 00 40 EN	1/2"	200	160	500	1

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

Extensions

1/2" 3/8"

with locking device against accidental loosening of sockets or extensions, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red

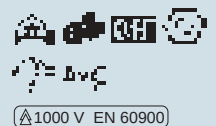


Art. No.	square	length	weight	PU
11 03 37 EN	3/8"	125	170	1
11 03 35 EN	3/8"	250	280	1
11 03 36 EN	1/2"	125	220	1
11 03 38 EN	1/2"	250	420	1

Hexagon sockets

1/2" 3/8"

1/2" square drive, 4 edge drive, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red



Art. No.	size of key	length	weight	PU
11 03 39 EN	8	50	80	1
11 03 40 EN	10	50	80	1
11 03 42 EN	11	50	80	1
11 03 44 EN	12	50	80	1
11 03 46 EN	13	50	80	1
11 03 48 EN	14	50	80	1
11 03 50 EN	17	50	100	1
11 03 52 EN	19	50	100	1
11 03 54 EN	22	50	110	1
11 03 56 EN	24	50	130	1
11 03 58 EN	27	50	160	1
11 03 60 EN	30	50	190	1
11 03 62 EN	32	50	210	1

Hexagon sockets

3/8" 1/2"

3/8" square drive, 4 edge drive, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red



Art. No.	size of key	length	weight	PU
11 03 63 EN	8	40	70	1
11 03 64 EN	9	40	70	1
11 03 65 EN	10	40	70	1
11 03 66 EN	11	40	70	1
11 07 00 EN	12	40	70	1
11 03 67 EN	13	40	70	1
11 03 71 EN	14	40	70	1
11 03 68 EN	17	40	70	1
11 03 69 EN	19	40	70	1
11 07 02 EN	22	40	70	1

Hexagon sockets DIN 7448

1/2"

extra long, 1/2" square drive, 4 edge drive, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red



Art. No.	size of key	length	weight	PU
11 03 73 EN	10	80	110	1
11 03 74 EN	11	80	110	1
11 03 75 EN	13	80	110	1
11 03 76 EN	14	80	110	1
11 03 77 EN	17	80	110	1
11 03 78 EN	19	80	110	1
11 03 79 EN	22	80	110	1

Fittings for hexagon socket screws

3/8" 1/2"

3/8" square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/ outside red



Art. No.	size of key	length	weight	PU
30 03 02 EN	4	65	45	1
30 02 96 EN	5	65	50	1
30 02 98 EN	6	65	50	1
30 02 99 EN	8	65	65	1
30 03 05 EN	10	65	65	1

Fittings for hexagon socket screws

1/2" 3/8"

1/2" square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red



Art. No.	size of key	length	weight	PU
30 02 94 EN	4	70	80	1
30 02 97 EN	5	70	80	1
30 02 95 EN	6	70	85	1
30 03 03 EN	8	70	95	1
30 03 06 EN	10	70	95	1

Torque stoppers

3/8"

with short extension, locable for all sockets with 3/8" drive, fully insulated acc. to VDE EN 60900, 2-coloured coating-insulation - inside yellow/outside red

1000 V EN 60900



Art. No.	square	a-range	weight	PU
11 04 56 EN	3/8"	12 Nm	310	1
11 04 57 EN	3/8"	18 Nm	310	1
11 04 58 EN	3/8"	25 Nm	310	1

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Plastic wedges

with bright slot for all common cable cutters, oval form without sharp edges

⚠ 1000 V EN 60900



Art. No.	size	weight	PU
12 01 02	225 x 45	225	1

Plastic wedges

without slot, oval form without sharp edges, long version with large head

⚠ 1000 V EN 60900



Art. No.	size	weight	PU
12 01 00	200 x 25	55	1

Wedges

wood or plastic



Art. No.	size	Dimension	type	material	weight	PU
12 00 98	1	16,3 x 3,7	without groove	wood	50	1
12 00 99	2	16,3 x 3,7	with groove	wood	50	1
12 00 94	1	16,3 x 3,7	without groove	plastic	50	1
12 00 97	2	16,3 x 3,7	with groove	plastic	50	1

Cleaning brushes Safety Line

PVC-pattern

⚠ 1000 V



Art. No.	length	width	weight	PU
15 00 36	420	25	50	1
15 00 37	420	38	50	1
15 00 38	420	50	100	1

Electrician's safety levels

nonconducting plastic material, with level and plumb



Art. No.	length	width	height	weight	PU
24 00 57	400	24	52	200	1
24 00 58	600	24	52	250	1

PVC hammer EN 60900

Bounce-free, head of polyethylen, break-, wear- and splinter-proof, heads interchangeable

⚠ 1000 V EN 60900



Art. No.	Ø	length	weight	PU
18 02 95	25	290	540	1
18 02 97	35	290	790	1

Combined dowel and contact spanners

may be used for screws 2 - 63 A by changing the insert, handle made from insulating material



Art. No.	length	weight	PU
12 00 02	105	40	6

Insulated tweezers VDE EN 60900

austenitic steel, pointed, PVC-insulated

⚠ 1000 V EN 60900



Art. No.	length	weight	PU
21 10 60	130	26	1

Insulated tweezers VDE EN 60900

austenitic steel, pointed round, bent, PVC-insulated



⚠ 1000 V EN 60900



Art. No.	length	weight	PU
21 10 62	145	32	1

Insulated tweezers VDE EN 60900

austenitic steel, wide round, flat, PVC-insulated



⚠ 1000 V EN 60900



Art. No.	length	weight	PU
21 10 64	145	42	1

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

Tool case EN 60900

made of plastic, complete with 3/8" tools. Dimension: 450 x 340 x 100 mm

Contents:

Reversible ratchet	3/8"
Extension	125 mm 3/8"
Extension	250 mm 3/8"
T-slip-on-keys	3/8"
8 Sockets	3/8" (10, 12, 13, 14, 17, 19, 22, 24 mm)
3 Dies for hexagon screws	3/8", 5, 6, 8 mm
1 Torque stopper	(12 to 25 Nm)
1 Screwdriver	3,5 x 100 mm



1000 V EN 60900



Art. No.	set	weight	PU
22 01 47	17-pieces 3/8"	3200	1

Tool case EN 60900

made of plastic, complete with 1/2" tools. Dimension: 450 x 340 x 100 mm

Contents:

1 Reversible ratchet	1/2"
1 Extension	125 mm 1/2"
1 Extension	250 mm 1/2"
1 Slip-on-keys	1/2"
8 Sockets	1/2" (10, 12, 13, 14, 17, 19, 22, 24 mm)
3 Dies for hexagon screws	1/2", 5, 6, 8 mm
1 Screwdriver	3,5 x 100 mm



1000 V EN 60900



Art. No.	set	weight	PU
22 02 05	16-pieces 1/2"	3000	1

Tool case „Real“

made of plastic, complete with 20 security tools according to VDE EN 60900.

Dimension: 450 x 340 x 100 mm. Contents:

Combination pliers	200 mm
Side cutter	160 mm
Telephone plier, straight	200 mm
Wire stripping pliers	200 mm
Flat nose pliers	160 mm
Round nose pliers	160 mm
Mains tester	
Electrician's screwdriver	2,5 x 75 mm
Electrician's screwdriver	3,5 x 100 mm
Electrician's screwdriver	5,5 x 125 mm
Electrician's screwdriver	6,5 x 150 mm
Electrician's screwdriver	8 x 175 mm
Electrician's screwdriver	10 x 200 mm
Cross slotted screwdriver	PH size 1
Nut driver	5 mm
Nut driver	8 mm
Nut driver	10 mm
Nut driver	13 mm
2 Cable knives	



1000 V EN 60900



Art. No.	set	weight	PU
22 01 48	20-pieces	4200	1

Tool case „Biber“

made of plastic, complete with 26 security tools according to VDE EN 60900.

Dimension: 450 x 340 x 100 mm.

Contents:

Combination pliers	200 mm
Side cutter	160 mm
Telephone pliers, straight	200 mm
Reversible Ratchet	1/2"
Extension	250 mm, 1/2"
2 Cable knives	
7 socket, 1/2"	10, 11, 12, 13, 14, 17, 19 mm
7 open end spanner	10, 11, 12, 13, 14, 17, 19 mm
Voltage tester	
Electrician's screwdriver	3,5 x 100 mm
Electrician's screwdriver	5,5 x 125 mm
Electrician's screwdriver	6,5 x 150 mm
Electrician's screwdriver	8 x 175 mm



1000 V EN 60900



Art. No.	set	weight	PU
22 01 46	26-pieces	4180	1



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Tool case „Delux“

of signal-red leather, with 54 safety tools and safeguard appliance according to VDE EN 60900, case 22 01 42 containing:

Telephone pliers	straight
Telephone pliers	bent
Combination pliers	185 mm
Side cutter	165 mm
Wire stripping pliers	
Plastic pliers	180 mm
Electrician's screwdriver	75 mm
Electrician's screwdriver	100 mm
Electrician's screwdriver	125 mm
Electrician's screwdriver	150 mm
Cross slotted screwdriver	PH size 1
Cross slotted screwdriver	PH size 2
Nut driver	5,5 mm
Nut driver	7,0 mm
Nut driver	8,0 mm
Nut driver	10,0 mm
Voltage tester „DUSPOL“	
Socket	size 10
Socket	size 11
Socket	size 12
Socket	size 13
Socket	size 14
Socket	size 15
Socket	size 16
Reversible ratchet	1/2"
T-sliding handle	1/2"
Open end spanner	SW 10
Open end spanner	SW 12
Open end spanner	SW 13
Open end spanner	SW 19
Open end spanner	SW 22
Open end spanner	SW 24
Cable knives	
Cable scissors	200 mm
Slip-on bushes 5-pieces	No. 1, 10 mm
Slip-on bushes 5-pieces	No. 2, 10 mm
Slip-on bushes 5-pieces	No. 3, 10 mm
Plastic clamps	
Covering tape, grey	
Covering tape, red	
Safety grip	
Gloves	size 9



1000 V EN 60900



Art. No.	set	weight	PU
22 01 35	54-pieces	13500	1

Tool case „Rotor“

of signal-red leather, with 47 safety tools and safeguard appliance according to VDE EN 60900, case 22 01 42 containing:

Combination pliers	185 mm
Side cutter	165 mm
Wire stripping pliers	
Round nose pliers	160 mm
Plastic clamp	
Gloves	size 10
Screwdriver	60 mm
Screwdriver	75 mm
Screwdriver	100 mm
Safety grip	
Nut driver	size 6
Nut driver	size 7
Nut driver	size 8
Nut driver	size 9
Rubber towels	1000 mm
5 slip-on-bushes	size 1, 10 mm
5 slip-on-bushes	size 2, 10 mm
5 slip-on-bushes	size 3, 10 mm
5 slip-on-bushes	10 mm
5 slip-on-bushes	20 mm
5 slip-on-bushes	30 mm
Cable knives	
Mains tester	150 - 250 V



1000 V EN 60900



Art. No.	set	weight	PU
22 01 40	47-pieces	7845	1

Tool case „Magister“

of signal-red leather, with many compartements for tools, empty



Art. No.	length	width	height	weight	PU
22 01 42	440	165	260	2300	1

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

Tool case „Leopard“

rigid case, signal-red, complete with 32 safety-tools and safeguard appliance according to VDE EN 60900 (480 x 180 x 310 mm)

Contents:

Round Nose pliers	160 mm
Telephone pliers, straight	200 mm
Telephone pliers, bent	200 mm
Combination pliers	185 mm
Side Cutter	165 mm
Wire stripping pliers	160 mm
Retaining screwdriver	100 mm
Retaining screwdriver	125 mm
Retaining screwdriver	cross-slotted
Hexagon Angle screwdriver	6 mm
Hexagon Angle screwdriver	8 mm
Electrician's screwdriver 75 mm	
Electrician's screwdriver 100 mm	
Electrician's screwdriver	150 mm
Electrician's screwdriver 175 mm	
Electrician's screwdriver 200 mm	
Cross Slotted screwdriver, Phillips	No. 1
Cross Slotted screwdriver, Phillips	No. 2
Cross Slotted screwdriver, Pozidriv	No. 1
Cross Slotted screwdriver, Pozidriv	No. 2
Nut Driver	5,5 mm
Nut Driver	6 mm
Nut Driver	7 mm
Nut Driver	8 mm
Voltage Tester "DUSPOL"	110 - 750 Volt
Cable knife	insulated
Cable knife	
Cable Scissor	
Plastic Plier	180 mm
Covering Tape, red	10 m
NH-Safety Grip	
Gloves	size 9



1000 V EN 60900



Art. No.	set	length	width	height	weight	PU
22 01 36	32-pieces	480	165	350	9950	1

Tool case „Venus Plus“

rigid case, signal-red, complete with 32 safety-tools and safeguard appliance according to VDE EN 60900 (460 x 180 x 310 mm).

Contents:

Round Nose pliers	160 mm
Telephone pliers, straight	200 mm
Telephone pliers, bent	200 mm
Combination pliers	185 mm
Side Cutter	165 mm
Wire stripping pliers	160 mm
Retaining screwdriver	100 mm
Retaining screwdriver	125 mm
Retaining screwdriver	cross-slotted
Hexagon Angle screwdriver	6 mm
Hexagon Angle screwdriver	8 mm
Electrician's screwdriver	75 mm
Electrician's screwdriver	100 mm
Electrician's screwdriver	150 mm
Electrician's screwdriver	175 mm
Electrician's screwdriver	200 mm
Cross Slotted screwdriver, Phillips	No. 1
Cross Slotted screwdriver, Phillips	No. 2
Cross Slotted screwdriver, Pozidriv	No. 1
Cross Slotted screwdriver, Pozidriv	No. 2
Nut Driver	5,5 mm
Nut Driver	6 mm
Nut Driver	7 mm
Nut Driver	8 mm
Voltage Tester "DUSPOL"	110 - 750 Volt
Cable knife	insulated
Cable knife	
Cable Scissor	
Plastic Plier	180 mm
Covering Tape, red	10 m
NH-Safety Grip	
Gloves	size 9



1000 V EN 60900



Art. No.	set	length	width	height	weight	PU
22 00 33	32-pieces	460	180	310	9980	1



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Tool case „Venus“

rigid case, made of ABS-plastic material, signal-red, empty, suitable especially for safety-tools, excellent rib-profile on the outside, high-quality locks, inside with separation for documents, 2 plates with compartments for several tools, 1 tray of ABS-plastics with separations for individual divisions. Inside measurement: 460 x 180 x 310 mm



Art. No.	length	width	height	weight	PU
22 00 32	460	180	310	5500	1

Tool case „Pendant“

rigid case, signal red, with Alu frame and 2 locks, with 3 plates with many compartments for tools



Art. No.	length	width	height	weight	PU
22 00 76	470	160	320	5500	1

Tool folding bags „Rebell“

special synthetic material, with snap lock, signal-red, with 12 compartments for tools acc. to VDE EN 60900



Art. No.	length	width	height	weight	PU
22 00 16	300	50	230	980	1

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

VDE/GS - Tool sets EN 60900

with VDE EN 60900, in red coloured plastic wallet
11-pieces, Contents: 1 Comb. pliers 185 mm, 1 Round nose pliers 160 mm, 1 Side cutter 165 mm, 1 Wire stripping pliers, 1 Screwdriver 75 mm, 1 Screwdriver 100 mm, 1 Screwdriver 125 mm, 1 Screwdriver 150 mm, 1 Cross slotted screwdriver PH No. 1, 1 Nut driver 7 mm, 1 Voltage tester 100 - 1250 V



⚠ 1000 V EN 60900



Art. No.	set	weight	PU
22 01 30	11-pieces	2600	1

Single ended tool set acc. to VDE EN 60900

in tool wallet of black imitation leather. Contents: 8 single ended tools of chrom vanadium steel, offset at 15°, 2-coloured coating-insulation - inside yellow/outside red.

populated with:	Art. No.	size of key	length mm	strength
	11 02 68	10	120	5
	11 02 70	11	130	5,5
	11 02 72	12	140	5,5
	11 02 74	13	155	6
	11 02 76	14	170	6
	11 02 78	17	185	6,5
	11 02 80	19	210	7,5
	11 02 82	22	230	8,5



⚠ 1000 V EN 60900



Art. No.	set	PU
22 00 17	8-pieces	1

VDE security set EN 60900

Bag of imitation leather, for working under tension up to 1000 V, acc. to EN 60900.

Contents: 10-pieces: 1 piece each 2K-VDE electricians screwdrivers VDE EN 60900 2,5 x 75 mm, 4 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm, 1 pc each 2C-VDE cross slotted Screwdrivers Pozidriv VDE EN 60900 size 1 and 2, Combination pliers VDE EN 60900 185 mm, Diagonal cutters VDE EN 60900 185 mm, Voltage tester "Profipol" CE 12-400~ V and 12-500 V, Cable stripping knife VDE EN 60900 35 mm



⚠ 1000 V EN 60900



Art. No.	set	PU
22 00 14	10-pieces	1

Tool case "HAUPA – LIFESAVER"

Aluminium Case, equipped with 66 Safety – Articles according to VDE EN 60900 respectively CE. Size: 830 mm x 550 mm x 300 mm, weight: 37,- kilos

• VDE Socket wrench	5	mm
• VDE Socket wrench	5,5	mm
• VDE Socket wrench	7	mm
• VDE Socket wrench	8	mm
• VDE Socket wrench	10	mm
• VDE Socket wrench	11	mm
• VDE Socket wrench	13	mm
• Euro-Voltage-Tester		
• VDE Screwdriver	2,5 x 75	mm
• VDE Screwdriver	3 x 100	mm
• VDE Screwdriver	4 x 100	mm
• VDE Screwdriver	5,5 x 125	mm
• VDE Screwdriver	6,5 x 150	mm
• VDE Cross-slotted-Screwdriver Phillips	Size 1	
• VDE Cross-slotted-Screwdriver Phillips	Size 2	
• VDE Screwdriver Pozidrive	Size 0	
• VDE Screwdriver Pozidrive	Size 1	
• VDE Screwdriver Pozidrive	Size 2	
• VDE Right Angle-Allen	Key 3	
• VDE Right Angle-Allen	Key 4	
• VDE Right Angle-Allen	Key 5	
• VDE Right Angle-Allen	Key 6	
• VDE Right Angle-Allen	Key 8	
• VDE Right Angle-Allen	Key 10	
• VDE Right Angle-Allen	Key 12	
• VDE Open-End Spanner	6	
• VDE Open End Spanner	7	
• VDE Open End Spanner	8	
• VDE Open End Spanner	9	
• VDE Open End Spanner	10	
• VDE Open End Spanner	11	
• VDE Open End Spanner	12	
• VDE Open End Spanner	13	
• VDE Open End Spanner	14	
• VDE Open End Spanner	17	
• VDE Open End Spanner	19	
• VDE Open End Spanner	22	
• VDE Open End Spanner	24	
• VDE Open-End Spanner	27	
• VDE Open End Spanner	30	
• VDE Open End Spanner	32	
• Spanner for Switch-Cabinets	Size 10	
• Finger gloves		
• VDE Safety Face mask		
• VDE Safety grip		
• VDE Electricians Boots	Size 42	
• VDE Insulating floor mat		
• VDE Rubber towels	600	mm
• VDE Plastic clip	160	mm (2-pieces)
• Slip-on Busches	10	mm (4-pieces)
• Safety belt	1400	mm
• Fallstop-Breaking device and rope shortening	2	m
• VDE Knife with strong blade		
• VDE Cable cutter	200	mm
• VDE Combination pliers	185	mm
• VDE Side cutter	180	mm
• VDE Long chain nose pliers	200	mm
• VDE Wire stripping pliers	165	mm
• VDE Tweezer, pointed round	150	mm
• Fall breaking belt	Typ A	



Art. No.	length	width	height	weight	PU
22 04 00	830	550	300	37000	1

⚡ 1000 V EN 60900

You can find more tool cases in this catalogue in
"Standard program" from page 168.

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Finger gloves acc. to DIN EN 60903

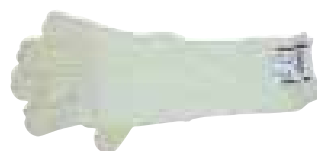
made from Latex, for operating voltages up to 500, 1000, 7500, 15000, 17000 to 26500 volt.



Art. No.	Volt	length	strength	size	weight	PU
12 00 04	500	350	ca. 0,5	9	425	1
12 00 05	500	350	ca. 0,5	10	425	1
12 00 06	1000	400	1	9	425	1
12 00 07	1000	400	1	10	425	1
12 00 06 561	7500	400	1,5	10	425	1
12 00 06 563 S	15000	400	1,5	10	425	1
12 00 06 564 S	17000	400	2,3	10	425	1
12 00 06 587	26500	400	2,9	10	425	1

Heat protection gloves EN 407 411

Inner glove for heat insulation according to EN 407, flame resistant, made from NOMEX III, heat insulation for contact and insulation against convective heat



Art. No.	weight	PU
12 00 11	70	1

Cotton gloves for putting underneath

short cotton gloves to wear with latex-gloves

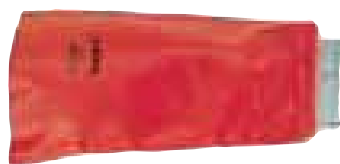
Art. No. 12 00 04 - 12 00 07



Art. No.	weight	PU
12 00 03	50	1

Safety fuse grips

with slip off protection and protection sleeve, for low voltage (NH) fuses class 00 - 3, protective sleeve made from smooth, impregnated leather



Art. No.	weight	PU
12 00 12	245	1

Electricians' protection helmets acc. to DIN EN 397

adjustable head size



⚡ 1000 V EN 60900



Art. No.	colour	weight	PU
12 00 08	green	350	1
12 00 08/G	yellow	350	1
12 00 08/W	white	350	1
12 00 08/R	red	350	1

Electricians' boots acc. to VDE 0680/1

size 42 to 48



Art. No.	size	weight	PU
12 00 14	42	2160	1
12 00 15	43	2160	1
12 00 16	44 - 45	2160	1
12 00 17	46	2160	1
12 00 18	47 - 48	2160	1

Safety-face masks VDE 0680/1

for protection against arc faults



⚡ 1000 V



Art. No.	colour	weight	PU
12 00 10	transparent	300	1

Electricians protection visor acc. to EN 166

Protection against short circuit lighting, vision screen of acetate, glassy, transparent forehead protection, convenient head mounting and individual adjustable



⚡ 1000 V



Art. No.	colour	weight	PU
15 03 77	transparent	330	1

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

Safety glasses „Die Funktionelle“

up-to-date design, high carrying comfort and safety, with side plates and upper eye border protection to avoid entering of particles



Art. No.	weight	PU
12 00 80	28	1

Safety glasses

athletic full-disk-glass acc. EN 166, low weight(30g), clip-length and inclination adjustable, hard-coated disk



Art. No.	weight	PU
12 00 81	30	1

Safety glasses „Die Modische“

with modern polyamid-frame, side plates, portable and very closely to face and cheek, with double nose-strap, design tortoise-shell



Art. No.	weight	PU
12 00 82	28	1

Safety glasses

single pane glasses with optimezed curve of 9 dioptrion, covers the eyes closely, distortion and eyestrain free, unlimited wearing possible, leaning adjustable, strong pane suitable against the risk against mechanical risks like loose metal parts.



Art. No.	weight	PU
12 00 83	30	1

Top safety glasses „Maxima“

black, with soft inside frame, made of thermoplast material, which guarantees a high carring-comfort and shock-absorption, scrape- and chemical resistant, UV-absorbant, antistatic, antidamping, design Polyamid 6,3 T



Art. No.	weight	PU
12 00 90	35	1

Ear defenders

medium noise-reduction, fully insulated plastic design



Art. No.	colour	weight	PU
12 01 10	red	200	1

Ear defenders

good noise-reduction, high carrying-comfort, cushion adjustable



Art. No.	colour	weight	PU
12 01 12	blue	200	1

Dust masks

light type, made of filter-fleece, against fine particulate



Art. No.	filterclass	weight	PU
12 01 20	P 1	10	1
12 01 22	P 2	10	1

Climping irons acc. to DIN 48 345

postal-type, with 2 points, offset foot-plate and wide leather heel cap, width of points 260 mm, for wooden posts of 150 - 240 mm diam.



Art. No.	weight	PU
15 02 80	4050	1

Climping irons

drop forged steel, 3 points, interchangeable frame, strong leather, for pales of 110 - 260 mm, for every size of shoes



Art. No.		weight	PU
15 02 86	smal cap	4150	1
15 02 88	wide cap	4300	1



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Safety trousers IPS acc. to DIN VDE 0680 part 1 E

band trousers, adjustable elastic braces, outside pocket with plate, colour signal-red, similar to DIN IEC 304, 500 volt



Art. No.		weight	PU
12 00 22		2000	1
15 03 00	bag for storing	800	1

Safety Jacket IPS acc. to DIN VDE 0680 part 1 E

length 90 cm, with sewed on cowl, breast pocket with plate, colour signal-red, similar to DIN IEC 304, 500 volt



Art. No.	size	weight	PU
12 00 20	S, M, L, XL	2000	1
15 03 00		800	1

Safety-sets VDE/GS

in practical bag, 6-pieces

Contents: Electricians' helmet, safety mask, safety handle, gloves size 9 (1000 V), insulating mat 1000 x 1000 x 4 mm



Art. No.	set	weight	PU
30 02 28	6-pieces	7500	1
30 02 29	5-pieces (without insulating mat)	2500	1

Safety belts acc. EN 358

safety belt universal for all sizes, length 1,50 meter



Art. No.	weight	PU
15 02 40	1110	1

Safety ropes acc. to A-DIN 83330

Safety ropes with hand loop and safety spring hooks acc. to A-DIN 5290.

Type: 16 mm drilled polyamide rope



Art. No.	length	Ø	weight	PU
15 02 62	5 m	16	1200	1
15 02 64	10 m	16	2040	1
15 02 66	15 m	16	2810	1
15 02 68	20 m	16	3350	1

Fallstop acc. to EN 354

Breaking device and rope shortening acc. to EN 355, length 2 m, one hand spring hooks on both sides



Art. No.	length	weight	PU
15 02 74	2 m	175	1

Safety harness DIN EN 361

Universal harness, rapid adjustment of shoulder strap (orange, 45 mm), body strap (orange, 45 mm) and leg straps (blue, 45 mm), fits all sizes, 1 back D ring, 2 side rings, lightweight, comfortable fabric. The forces that develop during a fall are transferred to less sensitive parts of the body



Art. No.	weight	PU
15 02 70	1500	1

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

Travelling safety device DIN 353-2, Type ASK 1

Rope shortener function: takes up slack rope and thus reduces height of the fall.

Fall absorber function: in the case of a fall this limits the catching impact to a medically acceptable level of 6 kN.

Features: Rope shortener made from V2A stainless steel, connection band with integrated fall absorber and self-securing trigger snap, high level of functional safety and absolutely maintenance free due to simplest mechanism, cannot be operated incorrectly, as every device is firmly attached to the rope.



Art. No.	length	rope-Ø	weight	PU
15 02 75	5 m	12 mm	230	1
15 02 76	10 m	12 mm	270	1
15 02 77	15 m	12 mm	310	1
15 02 78	20 m	12 mm	490	1
15 02 79	25 m	12 mm	600	1

Personal safety set

Safety harness (15 02 70), safety device (15 02 77) and shock absorbing rope (15 m) in practical backpack



Art. No.	set	weight	PU
15 02 58	4-pieces	2200	1

Insulating floor mats acc. to VDE 0303

with anti-skid surfaces



Art. No.	size		colour	Volt	weight	PU
12 00 30	1 m x 1 m	x 4 mm	grey	20.000	4500	1
12 00 31	10 m x 1 m	x 4 mm	role grey	20.000	45000	1

Rubber towels acc. to VDE 0680/1

grease and acid-proof, for covering of live equipment



△ 1000 V



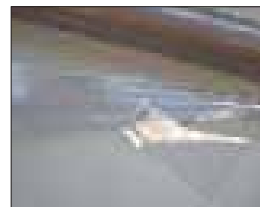
Art. No.	length	width	strength	weight	PU
12 00 40	120	120	1,6	35	1
12 00 42	350	250	1,6	220	1
12 00 44	600	600	1,6	910	1
12 00 46	1000	1000	1,6	2600	1
12 00 48	1200	1200	2,5	3200	1

Covering blankets transparent

acc. to VDE EN 0680 part 1, special character 1000 V and VDE-GS-sign, transparent, UV-proofed



△ 1000 V



Art. No.	length	width	strength	weight	PU
12 02 00	50000	1300	0,5	41500	1
15 03 22	25000	1200	1,0	38000	1

Covering blankets transparent

acc. to VDE EN 0680 part 1, special character 1000 V and VDE-GS-sign, transparent, UV-proofed



△ 1000 V



Art. No.	length	width	strength	weight	PU
15 03 02	1000	600	1,0	750	1
15 03 04	1000	600	0,5	375	1
15 03 06	1000	400	1,0	520	1
15 03 08	1000	400	0,5	260	1
15 03 10	1000	300	1,0	380	1
15 03 12	1000	300	0,5	190	1
15 03 14	600	400	1,0	340	1
15 03 16	600	400	0,5	170	1
15 03 18	400	300	1,0	170	1
15 03 20	400	300	0,5	85	1

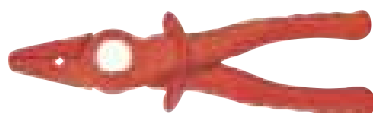
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Flat nose pliers

all of plastic, specially for mounting and blocking of electricmeters

⚠ 1000 V EN 60900



Art. No.	length	weight	PU
12 00 52	180	150	1

Plastic clips

for fastening of rubber towels



Art. No.	length	weight	PU
12 00 49	80	25	1
12 00 50	160	45	1

Self adhesive PVC tape

VDE 0340/T1/5.75, temperature area - 10 to + 90° C, 100 x 0,15 mm



Art. No.	colour	tot. length	weight	PU
12 00 95	grey	10	150	1
12 00 96	red	10	150	1

Slip on bushes

for protective covering of bare live cable terminals, numbered: No. 1 - 2 - 3

⚠ 1000 V EN 60900



Art. No.	length	Ø	for No.	weight	PU
12 00 60	95	13	1	10	1
12 00 62	95	13	2	10	1
12 00 64	95	13	3	10	1

Slip on bushes

self clamping, not numbered

⚠ 1000 V EN 60900

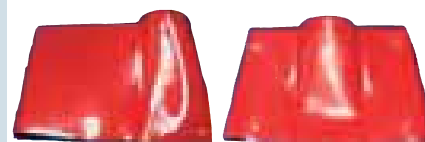


Art. No.	Ø	length	weight	PU
12 00 70	10	75	10	1
12 00 72	20	100	20	1
12 00 74	30	120	40	1
12 00 71	40	135	55	1
12 00 69	50	155	95	1
12 00 73	60	130	105	1

Insulator cover for gable insulators

with plastic buttons, absolutely safety attachments, touch protection on the bottom side, of weak, weather proofed insulation-material, for long term usage suitable.

⚠ 1000 V EN 60900



Art. 12 00 79

Art. 12 00 89

Art. No.	size	weight	PU
12 00 79	245 x 270	900	1
12 00 89	115 x 270	1100	1

Insulating and protecting covers

double faced, inside soft and outside strong plastic, for transformers and similar products

⚠ 1000 V EN 60900



Art. No.	length	weight	PU
12 00 57	80	335	1
12 00 59	300	700	1

NH-protecting caps

for the covering of spring contacts

⚠ 1000 V EN 60900



Art. No.	size	weight	PU
12 00 58	315 x 170	390	1

NH-protecting caps

for the covering of spring contacts

⚠ 1000 V EN 60900



Art. No.	size	weight	PU
12 00 77	170 x 140	140	1
12 00 78	255 x 135	205	1

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

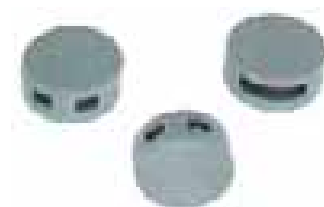
Sealing pliers

made of cast iron, punch exchangeable and hardened, bright nickel-plated



Art. No.	length	dies-Ø	weight	PU
21 07 00	125	8	230	1
21 07 02	145	9	340	1
21 07 04	165	10	430	1

Plastic seals



Art. No.	Ø	weight	PU
15 03 43	9	200	1000
15 03 45	10	250	1000

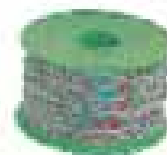
Dies for sealing pliers

loose dies



Art. No.	dies-Ø	weight	PU
21 07 10	8	5	1
21 07 12	9	5	1
21 07 14	10	5	1

Seal wire



Art. No.	thickness-Ø	weight real	length	weight	PU
15 03 60	0,5 x 0,5	0,5	115	520	1
15 03 62	0,5 x 0,5	1	230	1060	1
15 03 64	0,5 x 0,3	0,5	190	555	1
15 03 66	0,5 x 0,3	1	380	1040	1
15 03 68	0,3 x 0,3	0,5	300	500	1
15 03 70	0,3 x 0,3	1	600	1000	1

Lead seals



Art. No.	Ø	1 kg = approx. x piece	weight	PU
15 03 40	8	850	1000	1 kg
15 03 42	9	600	1000	1 kg
15 03 44	10	400	1000	1 kg
15 03 46	11	350	1000	1 kg
15 03 48	12	300	1000	1 kg

Plastic seal wire

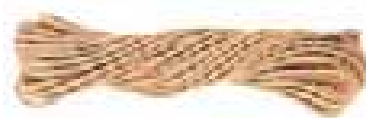


Art. No.	Ø	colour	length	weight	PU
15 03 75 B	1,23	blue	100	200	1
15 03 75 G	1,23	green	100	200	1
15 03 75 R	1,23	red	100	200	1



Hemp tackle block ropes

made of hemp, 20 m long



Art. No.	rope-Ø	weight	PU
13 00 42	8	950	1
13 00 44	10	1330	1

Parallel rope tension clamps

for copper and steel cables and wires



Art. No.	for ropes mm ²	Ø	load kg	weight	PU
13 00 64	6-35	3 - 8	1000	890	1
13 00 66	16-70	4-12	1400	1230	1
13 00 68	50-150	8-16	2500	1920	1

Tackle blocks

made from steel, with turnable hooks, 2 blocks, rust protected finish, with 3 brass rolls



Art. No.	roll-Ø	rope-Ø	load kg	weight	PU
13 00 04	50	8	200	1820	1
13 00 06	60	10	250	1960	1

a-range adjusting range
Cth cutting thickness (mm)
CW cutting with (mm)

IM inside measurement (mm)
length total length (mm)
lob length of blade (mm)

M for screws M
M - M for screws M - M
PU packing unit in pieces

SW size of key
test test range (Volt)
weight weight (gr)

Consumable items

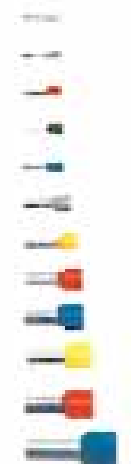
End sleeves



End sleeves DIN-series colour range III

insulated, copper-tinned, DIN 46228, part 4, colour range III, **DIN-series**

Art. No.	CS	Colour	d1	d3	l1	l2	s1	weight	PU
27 08 00	0,5	white	1,1	3,1	14	8	0,15	0,07	100
27 08 01	0,5	white	1,1	3,1	14	8	0,15	0,07	500
27 08 02	0,75	grey	1,25	3,3	14	8,2	0,15	0,08	500
27 08 03	0,75	grey	1,25	3,3	14	8,2	0,15	0,08	100
27 08 04	1	red	1,5	3,5	14,6	8,2	0,15	0,1	100
27 08 05	1	red	1,5	3,5	14,6	8,2	0,15	0,1	500
27 08 06	1	red	1,5	3,5	18	12	0,15	0,125	500
27 08 07	1,5	black	1,7	4,0	14,6	8,2	0,15	0,11	500
27 08 08	1,5	black	1,7	4,0	14,6	8,2	0,15	0,11	100
27 08 10	2,5	blue	2,3	4,9	15	8,2	0,15	0,15	100
27 08 11	2,5	blue	2,3	4,9	15	8,2	0,15	0,15	500
27 08 12	2,5	blue	2,3	4,9	16,5	10	0,15	0,15	500
27 08 13	2,5	blue	2,3	4,9	25	18	0,15	0,25	500
27 08 14	4	grey	2,9	5,6	17,7	10	0,2	0,2	100
27 08 15	4	grey	2,9	5,6	17,7	10	0,2	0,2	500
27 08 16	4	grey	2,9	5,6	25,7	18	0,2	0,32	100
27 08 18	6	yellow	3,6	7	20	12	0,2	0,35	100
27 08 20	6	yellow	3,6	7	26	18	0,2	0,46	100
27 08 22	10	red	4,6	8,4	21,5	12	0,2	0,45	100
27 08 24	10	red	4,6	8,4	27,5	18	0,2	0,65	100
27 08 26	16	blue	6,0	9,6	22,2	12	0,2	0,65	100
27 08 28	16	blue	6,0	9,6	28,2	18	0,2	0,8	100
27 08 30	25	yellow	7,3	12,0	30	16	0,2	1,6	50
27 08 32	25	yellow	7,3	12,0	32	18	0,2	1,7	50
27 08 34	25	yellow	7,3	12,0	36	22	0,2	2,0	50
27 08 36	35	red	8,3	13,5	30	16	0,2	1,9	50
27 08 38	35	red	8,3	13,5	32	18	0,2	2,1	50
27 08 40	35	red	8,3	13,5	39	25	0,2	2,5	50
27 08 42	50	blue	10,3	15	36	20	0,3	3,3	50
27 08 44	50	blue	10,3	15	40	25	0,3	3,6	50



End sleeves colour range I

insulated, copper-tinned, size according DIN 46228, part 4, colour range I

Art. No.	CS	Colour	d1	d3	l1	l2	s1	weight	PU
27 00 14	0,25	yellow	0,8	2,3	10,4	6	0,15	0,045	100
27 00 15	0,25	yellow	0,8	2,3	10,4	6	0,15	0,05	500
27 00 16	0,34	green	0,8	2,5	12,4	6	0,15	0,045	500
27 08 00	0,5	white	1,1	3,1	14,0	8	0,15	0,07	100
27 08 01	0,5	white	1,1	3,1	14,0	8	0,15	0,08	500
27 00 21	0,7	blue	1,25	3,3	14,5	8,2	0,15	0,08	100
27 00 22	0,7	blue	1,25	3,3	14,5	8,2	0,15	0,095	500
27 08 04	1,0	red	1,5	3,5	14,6	8,2	0,15	0,085	100
27 08 05	1,0	red	1,5	3,5	14,6	8,2	0,15	0,1	500
27 08 08	1,5	black	1,7	4,0	14,6	8,2	0,15	0,1	100
27 00 27	1,5	black	1,7	4,0	24,4	18	0,15	0,22	100
27 00 28	1,5	black	1,7	4,0	24,4	18	0,15	0,22	500
27 00 29	2,5	grey	2,3	4,9	15,0	8	0,15	0,14	100
27 00 30	2,5	grey	2,3	4,9	15,0	18	0,15	0,28	500
27 00 31	2,5	grey	2,3	4,9	21,0	18	0,15	0,28	100
27 00 32	2,5	grey	2,3	4,9	21,0	18	0,15	0,28	500
27 00 33	4,0	orange	2,9	5,6	17,7	10	0,2	0,3	100
27 00 34	4,0	orange	2,9	5,6	17,7	10	0,2	0,39	500
27 00 36	4,0	orange	2,9	5,6	25,7	18	0,2	0,3	100
27 00 38	6,0	green	3,6	7,0	20,0	12	0,2	0,41	100
27 00 40	6,0	green	3,6	7,0	26,0	18	0,2	0,53	100
27 00 42	10,0	brown	4,6	8,4	21,5	12	0,2	0,55	100
27 00 44	10,0	brown	4,6	8,4	27,5	18	0,2	0,71	100
27 00 46	16,0	ivory	6,0	9,6	24,2	12	0,2	0,66	100
27 00 48	16,0	ivory	6,0	9,6	28,2	18	0,2	0,85	100
27 00 49	25,0	black	7,3	12,0	30,0	16	0,2	0,052	50
27 00 50	25,0	black	7,3	12,0	32,0	18	0,2	0,052	50



CS cross section in mm²
 IF identification figure
 height in mm

length in mm
 M bolt M in mm
 plug flat plug

PU packing unit in pieces
 weight in gr.
 width in mm

End sleeves colour range II

insulated, copper-tinned, colour range II

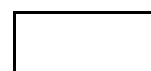
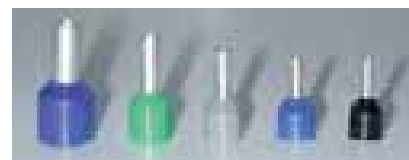
Art. No.	CS	Colour	d1	d3	l1	l2	s1	weight	PU
27 07 14	0,25	light blue	0,8	2,3	10,4	6,0	0,15	0,045	100
27 07 15	0,25	light blue	0,8	2,3	10,4	6,0	0,15	0,045	500
27 07 16	0,34	smaragd	0,8	2,5	10,4	6,0	0,15	0,045	500
27 07 19	0,5	orange	1,1	3,1	14,0	8,0	0,15	0,07	100
27 07 20	0,5	orange	1,1	3,1	14,0	8,0	0,15	0,07	500
27 07 21	0,75	white	1,25	3,3	14,6	8,2	0,15	0,08	100
27 07 22	0,75	white	1,25	3,3	14,6	8,2	0,15	0,08	500
27 07 23	1,0	yellow	1,5	3,5	14,6	8,2	0,15	0,1	100
27 07 24	1,0	yellow	1,5	3,5	14,6	8,2	0,15	0,1	500
27 07 25	1,5	red	1,7	4,0	14,6	8,2	0,15	0,11	100
27 07 26	1,5	red	1,7	4,0	14,6	8,2	0,15	0,19	500
27 07 27	1,5	red	1,7	4,0	24,4	18	0,15	0,21	100
27 07 28	1,5	red	1,7	4,0	24,4	18	0,15	0,1	500
27 08 10	2,5	blue	2,3	4,9	15,0	8,0	0,15	0,15	100
27 08 11	2,5	blue	2,3	4,9	15,0	8,0	0,15	0,25	500
27 08 13	2,5	blue	2,3	4,9	25,0	18	0,15	0,26	100
27 07 32	2,5	blue	2,3	4,9	25,0	18	0,15	0,1	500
27 08 14	4,0	grey	2,9	5,6	17,7	10	0,20	0,21	100
27 08 15	4,0	grey	2,9	5,6	17,7	18	0,20	0,32	500
27 08 16	4,0	grey	2,9	5,6	25,7	18	0,20	0,1	100
27 07 38	6,0	black	3,6	7,0	20,0	12	0,20	0,35	100
27 07 40	6,0	black	3,6	7,0	26,0	18	0,20	0,46	100
27 07 42	10,0	ivory	4,6	8,4	21,5	12	0,20	0,45	100
27 07 44	10,0	ivory	4,6	8,4	27,5	18	0,20	0,65	100
27 07 46	16,0	green	6,0	9,6	22,2	12	0,20	0,65	100
27 07 48	16,0	green	6,0	9,6	28,2	18	0,20	0,8	100
27 07 50	25,0	brown	7,3	11,2	29,0	16	0,20	1,6	50
27 07 54	35,0	beige	8,3	12,7	30,0	16	0,20	1,9	50
27 07 56	35,0	beige	8,3	12,7	39,0	25	0,20	2,1	50
27 07 58	50,0	olive	10,3	15,0	36,4	20	0,30	3,3	25
27 07 60	50,0	olive	10,3	15,0	41,0	25	0,30	3,6	25
27 07 62	70,0	yellow	13,5	17,2	37,0	21	0,40	0,1	25



Wire-end sleeves for short-circuit proof lines

For short-circuit proof lines with very thick insulation (NSFGAFÖU), Applications: Feeding or branching in front of the main switch, in switchgears, distributors and also for rail vehicles, solar facilities, ignition cables.

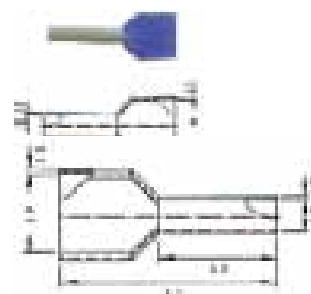
Art. No.	W	L	D	C	CS mm ²	PU
27 09 00	6,8	8,0	2,1	1,8	1,5	100
27 09 02	6,8	10,0	2,1	1,8	1,5	100
27 09 04	7,8	8,0	2,6	2,3	2,5	100
27 09 06	7,8	12,0	2,6	2,3	2,5	100
27 09 08	7,8	10,0	3,3	2,9	4,0	100
27 09 10	8,3	12,0	4,2	3,8	6,0	100
27 09 12	9,8	12,0	4,9	4,5	10,0	100
27 09 14	12,2	12,0	6,4	6,0	16,0	100



Twin-end sleeves for two wires

copper-tinned, tinned, insulated, permanent: max. 105° C

Art. No.	CS	Colour	l1	l2	d1	s1	d2	s2	weight	PU
27 07 78	0,5 x 2	white	15,0	8,0	1,5	0,15	2,5/4,7	0,25	12	100
27 07 80	0,75 x 2	grey	15,0	8,0	1,8	0,15	2,8/5,0	0,25	14	100
27 07 82	0,75 x 2	grey	17,0	10,0	1,8	0,15	2,8/5,0	0,25	15	100
27 07 84	1,0 x 2	red	15,0	8,0	2,05	0,15	3,4/5,4	0,30	17	100
27 07 87	1,0 x 2	red	17,0	10,0	2,05	0,15	3,4/5,4	0,30	18	100
27 07 88	1,5 x 2	black	16,0	8,0	2,3	0,15	3,6/6,6	0,30	20	100
27 07 90	1,5 x 2	black	20,0	12,0	2,3	0,15	3,6/6,6	0,30	24	100
27 07 92	2,5 x 2	blue	18,5	10,0	2,9	0,20	4,2/7,8	0,30	34	100
27 07 94	2,5 x 2	blue	21,5	13,0	2,9	0,20	4,2/7,8	0,30	34	100
27 07 96	4,0 x 2	grey	23	14,0	3,8	0,20	4,9/8,8	0,30	53	100
27 07 97	6,0 x 2	yellow	25	14,0	4,9	0,20	6,9/10,0	0,40	50	100
27 07 98	10,0 x 2	red	26	14,0	6,5	0,20	7,2/13,0	0,40	50	100
27 07 99	16,0 x 2	blue	31	16,0	8,3	0,20	9,6/18,4	0,40	100	100



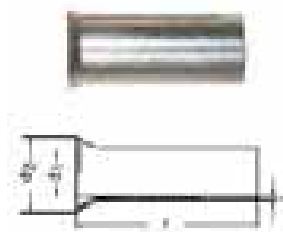
haupa®

...Technology that connects

End sleeves

copper-tinned, DIN 46228, part 1

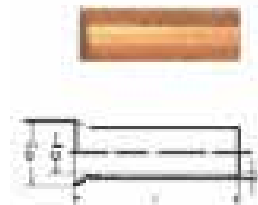
Art. No.	CS	d1	d2	L	s	weight	PU
27 00 66	0,25	0,75	1,7	5	0,15	0,020	1000
27 00 68	0,34	0,85	1,8	5	0,15	0,022	1000
27 00 70	0,5	1,0	2,1	6	0,15	0,032	1000
27 00 72	0,75	1,2	2,3	6	0,15	0,037	1000
27 00 74	0,75	1,2	2,3	12	0,15	0,061	1000
27 00 76	1,0	1,4	2,5	6	0,15	0,043	1000
27 00 78	1,0	1,4	2,5	10	0,15	0,069	1000
27 00 79	1,0	1,4	2,5	12	0,15	0,077	1000
27 00 80	1,5	1,7	2,8	7	0,15	0,063	1000
27 00 82	1,5	1,7	2,8	10	0,15	0,088	1000
27 00 84	1,5	1,7	2,8	12	0,15	0,104	1000
27 00 86	1,5	1,7	2,8	18	0,15	0,154	1000
27 00 87	1,5	1,7	2,8	20	0,15	0,170	1000
27 00 88	2,5	2,2	3,4	7	0,15	0,077	1000
27 00 89	2,5	2,2	3,4	10	0,15	0,110	1000
27 00 90	2,5	2,2	3,4	12	0,15	0,132	1000
27 00 91	2,5	2,2	3,4	15	0,15	0,165	1000
27 00 92	2,5	2,2	3,4	18	0,15	0,198	1000
27 00 93	2,5	2,2	3,4	20	0,15	0,220	1000
27 00 94	4	2,8	4	9	0,2	0,162	1000
27 00 96	4	2,8	4	12	0,2	0,214	1000
27 00 97	4	2,8	4	15	0,2	0,266	1000
27 00 98	4	2,8	4	18	0,2	0,266	1000
27 01 00	6	3,5	4,7	10	0,2	0,225	250
27 01 02	6	3,5	4,7	12	0,2	0,270	250
27 01 04	6	3,5	4,7	15	0,2	0,337	250
27 01 06	6	3,5	4,7	18	0,2	0,404	250
27 01 07	6	3,5	4,7	20	0,2	0,449	250
27 01 08	10	4,5	5,8	12	0,2	0,333	250
27 01 10	10	4,5	5,8	15	0,2	0,413	250
27 01 12	10	4,5	5,8	18	0,2	0,493	250
27 01 14	16	5,8	7,5	12	0,2	0,425	250
27 01 16	16	5,8	7,5	15	0,2	0,525	250
27 01 18	16	5,8	7,5	18	0,2	0,625	250
27 01 19	16	5,8	7,5	24	0,2	0,865	250
27 01 20	25	7,3	9,5	12	0,2	0,540	250
27 01 21	25	7,3	9,5	15	0,2	0,670	250
27 01 22	25	7,3	9,5	18	0,2	0,800	250
27 01 23	25	7,3	9,5	25	0,2	1,100	100
27 01 24	35	8,3	11	18	0,2	0,900	100
27 01 26	35	8,3	11	22	0,2	1,100	100
27 01 28	35	8,3	11	25	0,2	1,240	100
27 01 30	35	8,3	11	30	0,2	1,490	100
27 01 31	50	10,3	13	22	0,3	1,690	100
27 01 32	70	12,5	15	25	0,4	3,750	100
27 01 34	95	14,5	17	30	0,4	5,170	50
27 01 35	120	16,5	19	32	0,5	7,830	50
27 01 36	150	18,5	21	38	0,5	9,280	50
27 01 37	185	20	23,5	40	0,6	14,170	25



End sleeves

copper bright, DIN 46228, part 1

Art. No.	CS	d1	d2	L	s	weight	PU
27 01 41	0,34	0,85	1,8	5	0,15	0,022	1000
27 01 40	0,5	1	2,1	6	0,15	0,032	1000
27 01 42	0,75	1,2	2,3	6	0,15	0,037	1000
27 01 43	0,75	1,2	2,3	10	0,15	0,040	1000
27 01 44	0,75	1,2	2,3	12	0,15	0,061	1000
27 01 46	1	1,4	2,5	6	0,15	0,043	1000
27 01 48	1	1,4	2,5	10	0,15	0,069	1000
27 01 49	1	1,4	2,5	12	0,15	0,077	1000
27 01 50	1,5	1,7	2,8	7	0,15	0,063	1000
27 01 52	1,5	1,7	2,8	10	0,15	0,088	1000
27 01 54	1,5	1,7	2,8	12	0,15	0,104	1000
27 01 56	1,5	1,7	2,8	18	0,15	0,154	1000
27 01 58	2,5	2,5	3,4	7	0,15	0,077	1000
27 01 59	2,5	2,5	3,4	10	0,15	0,110	1000
27 01 60	2,5	2,5	3,4	12	0,15	0,132	1000
27 01 64	4	2,8	4	9	0,2	0,162	1000
27 01 66	4	2,8	4	12	0,2	0,214	1000
27 01 68	4	2,8	4	18	0,2	0,318	1000
27 01 70	6	3,5	4,7	10	0,2	0,225	250
27 01 72	6	3,5	4,7	12	0,2	0,270	250
27 01 74	6	3,5	4,7	15	0,2	0,337	250
27 01 76	6	3,5	4,7	18	0,2	0,404	250
27 01 78	10	4,5	5,8	12	0,2	0,333	250
27 01 80	10	4,5	5,8	15	0,2	0,413	250
27 01 82	10	4,5	5,8	18	0,2	0,493	250
27 01 84	16	5,8	7,5	12	0,2	0,425	250
27 01 86	16	5,8	7,5	15	0,2	0,525	250
27 01 88	16	5,8	7,5	18	0,2	0,625	250
27 01 90	25	7,3	9,5	12	0,2	0,540	250
27 01 92	25	7,3	9,5	18	0,2	0,800	250
27 01 94	35	8,3	11	18	0,2	0,750	100
27 01 95	35	8,3	11	20	0,2	0,900	100
27 01 96	35	8,3	11	22	0,2	1,100	100
27 01 98	35	8,3	11	26	0,2	1,240	100



Dispenser boxes with uninsulated end sleeves

Containing: end sleeves

700 pieces 0,5 mm², Art. No. 27 00 70

1000 pieces 0,75 mm², Art. No. 27 00 72

800 pieces 1,0 mm², Art. No. 27 00 76

500 pieces 1,5 mm², Art. No. 27 00 80

450 pieces 2,5 mm², Art. No. 27 00 88



Art. No.	weight	PU
27 02 17	60	1

Dispenser boxes with uninsulated end sleeves

Containing: end sleeves, tinned

225 pieces 4 mm², Art. No. 27 00 94

70 pieces 6,0 mm², Art. No. 27 01 02

50 pieces 10,0 mm², Art. No. 27 01 08

50 pieces 16,0 mm², Art. No. 27 01 14



Art. No.	weight	PU
27 02 18	60	1

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Assortement box with Twin end sleeves

Contents:

50 pieces grey, 2 x 0,75 mm², Art. No. 27 07 80
 50 pieces red, 2 x 1,0 mm², Art. No. 27 07 84
 50 pieces black, 2 x 1,5 mm², Art. No. 27 07 88
 50 pieces blue, 2 x 2,5 mm², Art. No. 27 07 92

Art. No.	weight	PU
27 07 95	50	1



Dispenser boxes with insulated end sleeves

Contents: colour range I

50 pieces white, 0,5 mm², Art. No. 27 08 00
 100 pieces blue, 0,75 mm², Art. No. 27 00 21
 100 pieces red, 1,0 mm², Art. No. 27 08 04
 100 pieces black, 1,5 mm², Art. No. 27 08 08
 50 pieces grey, 2,5 mm², Art. No. 27 00 29

Art. No.	weight	PU
27 08 50	50	1



Dispenser boxes with insulated end sleeves

Contents: colour range II

50 pieces orange, 0,5 mm², Art. No. 27 07 19
 100 pieces white, 0,75 mm², Art. No. 27 07 21
 100 pieces yellow, 1,0 mm², Art. No. 27 07 23
 100 pieces red, 1,5 mm², Art. No. 27 07 25
 50 pieces blue, 2,5 mm², Art. No. 27 08 10

Art. No.	weight	PU
27 08 52	50	1

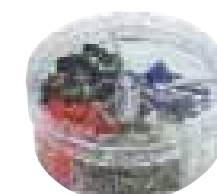


Dispenser boxes with insulated end sleeves

Contents: colour range III, **DIN-series**

50 pieces white, 0,5 mm², Art. No. 27 08 00
 100 pieces grey, 0,75 mm², Art. No. 27 08 02
 100 pieces red, 1,0 mm², Art. No. 27 08 04
 100 pieces black, 1,5 mm², Art. No. 27 08 07
 50 pieces blue, 2,5 mm², Art. No. 27 08 10

Art. No.	weight	PU
27 08 54	50	1



Dispenser boxes with insulated end sleeves

Contents: colour range II

50 pieces grey, 4 mm², Art. No. 27 08 14
 20 pieces black, 6 mm², Art. No. 27 07 38
 20 pieces ivory, 10 mm², Art. No. 27 07 42
 10 pieces green, 16 mm², Art. No. 27 07 46

Art. No.	weight	PU
27 08 56	50	1

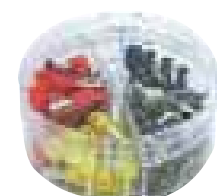


Dispenser boxes with insulated end sleeves DIN-Serie

Contents: colour range III, DIN

50 pieces grey, 4 mm², Art. No. 27 08 15
 20 pieces yellow, 6 mm², Art. No. 27 08 18
 20 pieces red, 10 mm², Art. No. 27 08 22
 10 pieces blue, 16 mm², Art. No. 27 08 26

Art. No.	weight	PU
27 08 58	150	1



CS cross section in mm ²	length in mm	PU packing unit in pieces
IF identification figure	M bolt M in mm	weight in gr.
height in mm	plug flat plug	width in mm

Dispenser boxes

without contents



Art. No.	mm ²	weight	PU
27 08 70	0,5 - 2,5	100	1/4

End sleeve assortment

insulated end sleeves, colour range I

Containing:

500 Super-end sleeves 8 mm x 0,5 mm², Art. No. 27 08 01

500 Super-end sleeves 8 mm x 1 mm², Art. No. 27 08 05

500 Super-end sleeves 8 mm x 1,5 mm², Art. No. 27 08 07

500 Super-end sleeves 8 mm x 2,5 mm², Art. No. 27 00 30

1 crimping pliers (Art. 21 08 20), crimping range 0,5 - 2,5 mm²

metal box 250 x 170 x 46 mm



Art. No.	weight	PU
27 08 78	1300	1

End sleeve assortment

insulated end sleeves, colour range I

Containing:

200 Super-end sleeves 8 mm x 0,75 mm², Art. 27 00 21

200 Super-end sleeves 8 mm x 1,0 mm², Art. 27 08 04

200 Super-end sleeves 8 mm x 1,5 mm², Art. 27 08 08

200 Super-end sleeves 8 mm x 2,5 mm², Art. 27 00 29

100 Super-end sleeves 10 mm x 4,0 mm², Art. 27 00 33

100 Super-end sleeves 12 mm x 6,0 mm², Art. 27 00 38

100 Super-end sleeves 18 mm x 10,0 mm², Art. 27 00 44

50 Super-end sleeves 18 mm x 16,0 mm², Art. 27 00 48

1 crimping pliers (Art. 21 08 24), crimping range 0,75 - 16,0 mm²

metal box 370 x 160 x 40 mm



Art. No.	weight	PU
27 08 82	1800	1

End sleeve assortment

insulated end sleeves, colour range III, DIN-series

Containing:

300 Super-end sleeves 8 mm x 0,75 mm², Art. 27 08 03

300 Super-end sleeves 8 mm x 1,0 mm², Art. 27 08 04

300 Super-end sleeves 8 mm x 1,5 mm², Art. 27 08 08

300 Super-end sleeves 8 mm x 2,5 mm², Art. 27 08 10

300 Super-end sleeves 10 mm x 4,0 mm², Art. 27 08 14

1 crimping pliers (Art. 21 07 63), crimping range 0,5 - 4,0 mm²

metal box 370 x 160 x 40 mm



Art. No.	weight	PU
27 08 84	2100	1

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End sleeves assortment

Containing: end sleeves, bright
 1000 end sleeves 6 mm x 0,75 mm², Art. No. 27 00 72
 1000 end sleeves 6 mm x 1,0 mm², Art. No. 27 00 76
 1000 end sleeves 7 mm x 1,5 mm², Art. No. 27 00 80
 500 end sleeves 7 mm x 2,5 mm², Art. No. 27 00 88
 500 end sleeves 9 mm x 4,0 mm², Art. No. 27 00 94
 500 end sleeves 10 mm x 6,0 mm², Art. No. 27 01 00
 1 crimping pliers (Art. 21 07 63), crimping range 0,5 - 4,0 mm²
 metal box 250 x 170 x 40 mm



Art. No.	weight	PU
27 00 41	1300	1

End sleeves assortment

Containing: end sleeves, bright
 1000 end sleeves 6 mm x 0,75 mm², Art. No. 27 00 72
 1000 end sleeves 6 mm x 1 mm², Art. No. 27 00 76
 1000 end sleeves 7,5 mm x 1,5 mm², Art. No. 27 00 80
 1000 end sleeves 7 mm x 2,5 mm², Art. No. 27 00 88
 1 crimping pliers (Art. 21 08 20), crimping range 0,5 - 2,5 mm²
 metal box 250 x 170 x 40 mm



Art. No.	weight	PU
27 00 37	1000	1

End sleeves assortment

Containing: end sleeves, bright
 1000 end sleeves 6 mm x 0,75 mm², Art. No. 27 00 72
 1000 end sleeves 6 mm x 1,0 mm², Art. No. 27 00 76
 1000 end sleeves 7 mm x 1,5 mm², Art. No. 27 00 80
 500 end sleeves 7 mm x 2,5 mm², Art. No. 27 00 88
 500 end sleeves 9 mm x 4,0 mm², Art. No. 27 00 94
 500 end sleeves 10 mm x 6,0 mm², Art. No. 27 01 00
 250 end sleeves 18 mm x 10,0 mm², Art. No. 27 01 12
 250 end sleeves 18 mm x 16,0 mm², Art. No. 27 01 18
 1 crimping pliers (Art. 21 08 24), crimping range 0,75 - 16,0 mm²
 metal box 370 x 160 x 40 mm



Art. No.	weight	PU
27 00 39	1400	1

Pliers for - End sleeves, bright and insulated

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,08 - 6	21 08 00			22
0,08 - 6/10	21 08 19			22
0,14 - 2,5	21 16 50			22
0,14 - 6	21 09 79			22
0,25 - 6	21 08 41			22
0,5 - 4	21 07 63			22
0,5 - 10	21 09 79 A			22
0,75 - 10	21 08 04			22
4,0 - 10	21 08 42			22
6,0 - 16	21 07 65			22
	21 16 52			22
10,0 - 16	21 09 79 B			22
6,0 - 50		21 50 00		34
6,0 - 95		21 51 00		36
10,0 - 25	21 16 72			22

Pliers for - End sleeves, bright and insulated

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
10,0 - 35,0	21 07 68			22
10,0 - 50,0	21 07 88			23
10,0 - 95,0		21 08 56		32
16,0 - 95,0			21 55 86	44
			21 58 00	46
16,0 - 185,0		21 52 00		38
25,0 - 50	21 16 74			22
50,0 - 95,0			21 07 89	23
50,0 - 150,0			21 66 00	48
			21 65 00	50

CS cross section in mm²
 IF identification figure
 height in mm

length in mm
 M bolt M in mm
 plug flat plug

PU packing unit in pieces
 weight in gr.
 width in mm

Consumable items

Insulated crimping terminals



The Quality

The elimination of every need to weld complicated operations to effect an electrical connection, the high productivity in cable termination, the low contact resistance as well as the high connection reliability are only some of the multiple advantages guaranteed by the HAUPA crimping systems.

Variety

The wide and complete range of crimping terminals satisfies the most different connection requirements with the widest application field even referring to the hardest and least favourable conditions of operation.

Materials

The high conductivity and the top mechanical characteristics are guaranteed by the purity (up to 99,9%) of the copper utilized for the production of crimping terminals.

Hot treatment

In order to ensure the maximum malleability of materials during the crimping operations all copper terminals undergo a hot treatment with forced ventilation and controlled temperature.

Surface treatment

The crimping terminals are treated with processes of electrolytic tin plating. This method guarantees the maximum adhesion of tin to the crimping terminal surface in order to reduce the electrical resistance to a minimum and to maximize the protection against corrosion.

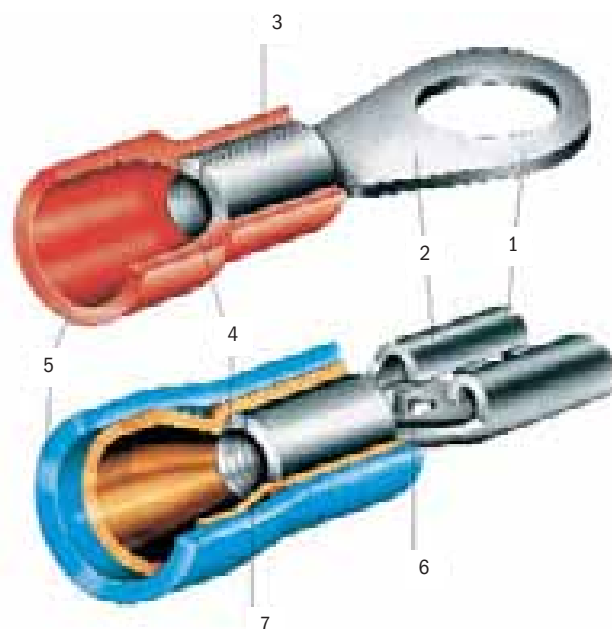
Insulation

The standard models are available with insulation in special self-extinguishing PVC or in Nylon and in colours according to International Standards. The high quality of the insulation materials employed for all crimping terminals ensure a high degree of resistance to the mechanical solicitations that they must undergo during the crimping operations without alteration of their insulation characteristics.

PVC insulated crimping terminals Easy Entry

1. Sleeves, made of purest copper
2. Treated with processes of electrolytic tin plating
3. Hot treatment
4. Internal serration for the best most electric contact
5. Insulation Easy Entry sleeve
6. Cable stop
7. Copper sleeve Easy Entry: for quick wire insertions with no strand turn-back and a strong mechanical retention.

funnel shaped insulating sleeve



Underwriters Laboratories Inc.
Listed File E 96029, E 128651, E 131576

Ring type DIN 46237

PVC-insulated with extended insulating sleeve, suitable for harmonized cable - **Easy Entry**

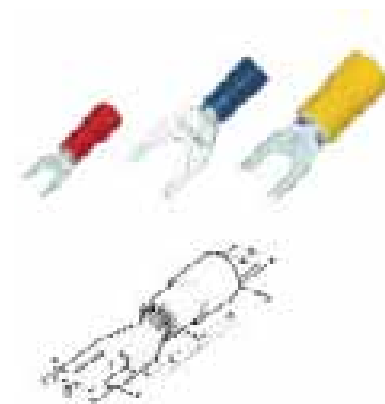
Art. No.	CS	M	F	B	A	E	L	d	D	s	weight	PU
26 02 50	0,25 - 1,5	2,5	2,60	8	10,4	8,60	22,2	1,95	4,20	0,8	60	100/500
26 02 51		3	3,15	8	10,4	8,60	22,2	1,95	4,20	0,8	60	100/500
26 02 52		3	3,20	5,5	10,4	4,40	15,4	1,95	4,20	0,8	55	100/500
26 02 54		3,5	3,60	8	10,4	7,80	22,2	1,95	4,20	0,8	55	100/500
26 02 56		4	4,20	8	10,4	7,50	22,0	1,95	4,20	0,8	70	100/500
26 02 58		5	5,20	8	10,4	8,00	22,4	1,95	4,20	0,8	90	100/500
26 02 60		6	6,20	10	10,4	8,60	23,7	1,95	4,20	0,8	80	100/500
26 02 62		8	8,30	14	10,4	12,60	30,0	1,95	4,20	0,8	130	100/500
26 02 64		10	10,40	14	10,4	12,80	30,0	1,95	4,20	0,8	130	100/500
26 02 65	1,5 - 2,5	2,5	2,60	8	11,0	8,00	23,3	2,45	4,80	0,8	60	100/500
26 02 66		3	3,20	8	11,0	8,00	23,0	2,45	4,80	0,8	65	100/500
26 02 67		3	3,20	6,4	11,0	4,30	18,5	2,45	4,80	0,8	65	100/500
26 02 68		3,5	3,70	8	11,0	8,00	23,0	2,45	4,80	0,8	65	100/500
26 02 70		4	4,20	8	11,0	8,00	23,0	2,45	4,80	0,8	80	100/500
26 02 72		5	5,20	10	11,0	9,80	26,0	2,45	4,80	0,8	90	100/500
26 02 74		6	6,20	11	11,0	11,70	28,0	2,45	4,80	0,8	110	100/500
26 02 76		8	8,20	15	11,0	14,50	33,0	2,45	4,80	0,8	130	100/500
26 02 78		10	10,50	15	11,0	14,50	33,0	2,45	4,80	0,8	160	100/500
26 02 82	2,5 - 6,0	3,5	3,70	8	14,0	8,40	26,5	3,50	6,60	1	50	100/500
26 02 84		4	4,20	8	14,0	8,40	26,5	3,50	6,60	1	50	100/500
26 02 86		5	5,20	10	14,0	10,20	29,6	3,50	6,60	1	50	100/500
26 02 88		6	6,20	11	14,0	11,00	30,6	3,50	6,60	1	100	100/500
26 02 90		8	8,20	15	14,0	15,30	37,0	3,50	6,60	1	100	100/500
26 02 92		10	10,50	19	14,0	16,50	40,0	3,50	6,60	1	110	100/500



Fork type DIN 46237

PVC-insulated with extended insulating sleeve, suitable for harmonized cable - **Easy Entry**

Art. No.	CS	M	F	B	A	E	L	d	D	s	weight	PU
26 02 99	0,25 - 1,5	2,5	2,60	5,6	10,4	6,70	20,0	1,95	4,20	0,8	60	100/500
26 03 00		3	3,20	5,6	10,4	6,70	20,0	1,95	4,20	0,8	60	100/500
26 03 02		3,5	3,70	6,5	10,4	6,50	19,4	1,95	4,20	0,8	60	100/500
26 03 04		4	4,20	6,4	10,4	6,30	20,9	1,95	4,20	0,8	70	100/500
26 03 06		5	5,20	8,0	10,4	8,00	21,2	1,95	4,20	0,8	90	100/500
26 03 08		6	6,20	9,2	10,4	8,30	22,4	1,95	4,20	0,8	95	100/500
26 03 09	1,5 - 2,5	2,5	2,60	5,6	11,0	8,40	23,0	2,45	4,80	0,8	60	100/500
26 03 10		3	3,20	5,6	11,0	8,40	23,0	2,45	4,80	0,8	65	100/500
26 03 12		3,5	3,70	6,6	11,0	5,30	20,3	2,45	4,80	0,8	63	100/500
26 03 14		4	4,20	6,6	11,0	5,30	20,3	2,45	4,80	0,8	80	100/500
26 03 16		5	5,20	9,1	11,0	9,50	25,0	2,45	4,80	0,8	90	100/500
26 03 18		6	6,30	10,0	11,0	11,20	27,0	2,45	4,80	0,8	110	100/500
26 03 21	2,5 - 6,0	3,5	3,70	8,1	14,0	7,20	26,0	3,50	6,60	1	140	100/500
26 03 20		4	4,20	8,1	14,0	7,20	26,0	3,50	6,60	1	140	100/500
26 03 22		5	5,20	9,0	14,0	10,50	28,5	3,50	6,60	1	160	100/500
26 03 24		6	6,30	11,0	14,0	11,00	29,5	3,50	6,60	1	170	100/500
26 03 26		8	8,20	15,2	14,0	15,00	35,2	3,50	6,60	1	230	100/500
26 03 28		10	10,50	19,0	14,0	16,60	38,0	3,50	6,60	1	300	100/500



Blade pin DIN 46231

copper tinned, PVC-insulated with extended insulating sleeve, suitable for harmonized cable

Art. No.	CS	B	A	E	L	d	D	weight	PU
26 03 30	0,25 - 1,5	2,8	10,4	9,0	19,4	1,7	4,20	100	100/500
26 03 31		3,0	10,4	14,5	24,9	1,7	4,20	100	100/500
26 03 32	1,5 - 2,5	2,8	10,4	9,0	19,4	2,3	4,80	100	100/500
26 03 33		2,8	10,4	16,0	26,4	2,3	4,80	100	100/500
26 03 34	2,5 - 6,0	2,8	13,5	10,0	23,5	3,4	6,80	100	100/500
26 03 35		4,5	13,5	18,2	31,7	3,4	6,80	100	100/500



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Rapid connectors

copper tinned, PVC-insulated, polypropylen

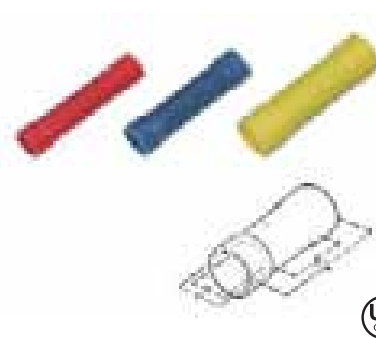
Art. No.	CS	A	L	weight	PU
26 03 36	0,25 - 1,5	13,5	20,0	100	100/500
26 05 00		17,0	20,0	100	100/500
26 03 37	1,25 - 2,5	13,5	20,5	100	100/500
26 05 02		17,0	10,0	100	100/500
26 03 38	2,5 - 6,0	17,0	10,0	100	100/500
26 05 04		17,0	10,0	100	100/500



Butt connectors

copper tinned, PVC-insulated

Art. No.	CS	B	L	d	D	weight	PU
26 03 50	0,25 - 1,5	15	22,7	1,7	4,0	90	100/500
26 03 52	1,25 - 2,5	15	22,7	2,3	4,5	115	100/500
26 03 54	2,5 - 6,0	15	26,7	3,4	6,8	230	100/500



Parallel connectors

copper tinned, PVC-insulated

Art. No.	CS	B	A	L	D	weight	PU
26 03 60	0,25 - 1,5	8,0	16,0	1,7	4,0	30	100/500
26 03 62	1,25 - 2,5	8,0	16,0	2,3	4,5	35	100/500
26 03 64	2,5 - 6,0	8,0	20,5	3,4	6,8	105	100/500



Round pin

copper tinned, PVC-insulated with extended insulating sleeve, suitable for harmonized cable

Art. No.	CS	B	E	A	L	d	D	weight	PU
26 03 70	0,25 - 1,5	1,8	12	10,4	22,4	1,95	4,20	100	100/500
26 03 71		1,8	9	10,4	20,0	1,95	4,20	100	100/500
26 03 72	1,5 - 2,5	1,8	12	11,0	23,0	2,45	4,80	100	100/500
26 03 73		1,8	9	11,0	20,0	2,45	4,80	100	100/500
26 03 74	2,5 - 6,0	2,6	14	14,0	28,0	3,50	6,60	100	100/500
26 03 76	10,0	4,0	15	21,5	38,0	4,50	8,30	100	100/500



Socket sleeve (female)

brass tinned, PVC-insulated, with antivibration copper sleeve

* Easy Entry

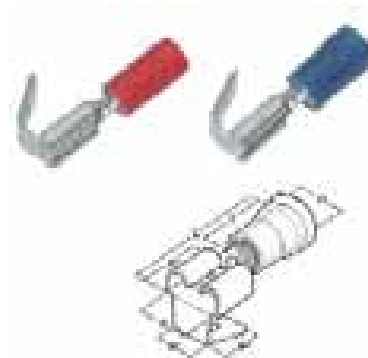
Art. No.	CS	plug	A	B	E	L	D	weight	PU
26 03 80*	0,25 - 1,5	2,8 x 0,5	3,2	6,4	9,5	17,9	3,5	100	100/500
26 03 82*		2,8 x 0,8	3,2	6,4	9,5	17,9	3,5	100	100/500
26 03 84*		4,8 x 0,5	5,0	6,0	9,5	18,7	3,5	100	100/500
26 03 86*		4,8 x 0,8	5,0	6,0	9,5	18,7	3,5	100	100/500
26 04 00		5,2 x 0,8	5,5	6,4	9,5	18,7	3,5	100	100/500
26 03 92*	1,5 - 2,5	6,3 x 0,8	6,6	7,8	9,5	20,5	3,5	100	100/500
26 03 88*		4,8 x 0,5	5,0	6,0	9,5	18,7	4,3	100	100/500
26 03 90*		4,8 x 0,8	5,0	6,0	9,5	18,7	4,3	100	100/500
26 04 02		5,2 x 0,8	5,5	6,4	9,5	18,7	4,3	100	100/500
26 03 94*		6,3 x 0,8	6,6	7,8	9,5	20,5	4,3	100	100/500
26 03 96	2,5 - 6,0	6,3 x 0,8	6,6	7,8	13,5	24,5	6,2	100	100/500
26 04 04		9,8 x 1,1	10,0	12,0	13,5	29,2	6,2	100	100/500



Socket sleeve (female) with piggy back

brass tinned, PVC-insulated, with antivibration copper sleeve

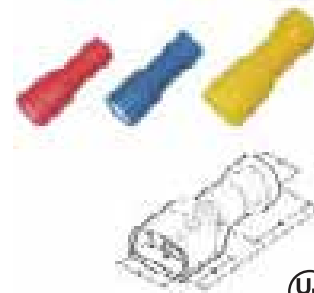
Art. No.	CS	plug	A1	A2	B1	B2	E	L	D	weight	PU
26 04 10	0,25 - 1,5	6,3 x 0,8	6,6	6,3	7,8	8	9,5	22,2	3,5	110	100/500
26 04 12	1,5 - 2,5	6,3 x 0,8	6,8	6,3	7,8	8	9,5	22,2	4,3	110	100/500



Socket sleeve (female), totally insulated

* Easy Entry

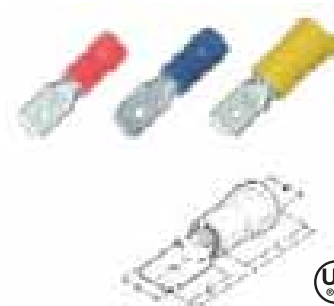
Art. No.	CS	plug	A	B	E	L	D	weight	PU
26 04 15*	0,25 - 1,5	4,8 x 0,8	5,0	6,0	11	20	2,7	100	100/500
26 04 14*		6,3 x 0,8	6,6	6,8	11	22	2,7	100	100/500
26 04 17*	1,5 - 2,5	4,8 x 0,8	5,0	6,0	11	20	3,2	100	100/500
26 04 16*		6,3 x 0,8	6,6	6,8	11	22	3,2	100	100/500
26 04 18	2,5 - 6,0	6,3 x 0,8	6,6	6,8	14	25	3,8	100	100/500



Socket sleeve (male)

Easy Entry

Art. No.	CS	A	B	E	L	D	weight	PU
26 05 10	0,25 - 1,5	2,8 x 0,5	6,5	10,5	19,2	3,8	100	100/500
26 05 12		2,8 x 0,8	6,5	10,5	19,2	3,8	100	100/500
26 05 14		4,8 x 0,5	6,5	10,5	19,2	3,8	100	100/500
26 05 16		4,8 x 0,8	6,7	10,5	19,2	3,8	100	100/500
26 04 22		6,3 x 0,8	7,7	10,0	20,5	3,5	100	100/500
26 05 18	1,5 - 2,5	4,8 x 0,5	6,5	10,5	19,2	3,8	100	100/500
26 05 20		4,8 x 0,8	6,7	10,5	19,2	3,8	100	100/500
26 04 24		6,3 x 0,8	7,7	10,0	20,5	4,0	100	100/500
26 04 26	2,5 - 6,0	6,3 x 0,8	7,7	13,5	24,5	5,5	100	100/500



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End connectors, nylon-insulated

copper tinned, nylon-insulated

Art. No.	CS	B	F	L	d	D	weight	PU
26 04 27	0,25 - 1,5	5,0	8,0	15,2	2,2	6,2	100	100/500
26 04 28	1,5 - 2,5	5,9	8,0	15,2	2,5	6,5	100	100/500
26 04 30	2,5 - 6,0	7,3	8,5	17,8	3,5	9,4	100	100/500
26 04 31	6,0 - 10,0	9,3	9,5	22,2	4,6	12,0	100	100/500



Sockets (female)

brass tinned, PVC-insulated, with antivibration copper sleeve

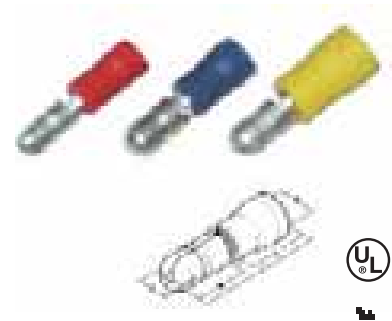
Art. No.	CS	A	B	E	L	D	weight	PU
26 04 40*	0,25 - 1,5	4	8,7	9,5	20,2	3,5	60	100/500
26 04 42*	1,5 - 2,5	5	8,7	9,5	20,7	4,3	120	100/500
26 04 43*		4	8,7	9,5	20,2	4,3	130	100/500
26 04 44	2,5 - 6,0	5	12,0	13,0	25,0	6,5	130	100/500



Bullet

* Easy Entry

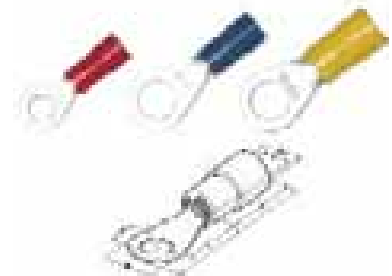
Art. No.	CS	A	B	E	L	D	weight	PU
26 04 46*	0,25 - 1,5	4	8,7	9,5	20,2	3,5	100	100/500
26 04 48*	1,5 - 2,5	5	8,7	9,5	20,7	4,3	100	100/500
26 04 49*		4	8,7	9,5	20,2	4,3	100	100/500
26 04 50	2,5 - 6,0	5	10,0	13,5	25,0	6,5	110	100/500



Ring type, nylon-insulated

copper tinned, nylon-insulated, 105°

Art. No.	CS	M	F	B	A	E	L	d	D	s	weight	PU
26 06 51	0,25 - 1,5	3,0	3,2	8,0	10,4	8,6	22,2	1,95	4,2	0,8	20	100/500
26 06 54		3,5	3,6	8,0	10,4	7,8	22,2	1,95	4,2	0,8	20	100/500
26 06 56		4,0	4,2	8,0	10,4	7,5	22,0	1,95	4,2	0,8	20	100/500
26 06 58		5,0	5,2	8,0	10,4	8,0	22,4	1,95	4,2	0,8	25	100/500
26 06 60		6,0	6,2	10,0	10,4	8,6	23,7	1,95	4,2	0,8	25	100/500
26 06 62		8,0	8,3	14,0	10,4	12,6	30,0	1,95	4,2	0,8	25	100/500
26 06 64		10,0	10,4	14,0	10,4	12,8	30,0	1,95	4,2	0,8	25	100/500
26 06 66	1,5 - 2,5	3,0	3,2	8,0	11,0	8,0	23,0	2,45	4,8	0,8	60	100/500
26 06 67		3,5	3,7	8,0	11,0	8,0	23,0	2,45	4,8	0,8	60	100/500
26 06 70		4,0	4,2	8,0	11,0	8,0	23,0	2,45	4,8	0,8	55	100/500
26 06 72		5,0	5,2	10,0	11,0	9,8	26,0	2,45	4,8	0,8	70	100/500
26 06 74		6,0	6,2	11,0	11,0	11,7	28,0	2,45	4,8	0,8	90	100/500
26 06 76		8,0	8,2	15,0	11,0	14,5	33,0	2,45	4,8	0,8	80	100/500
26 06 78		10,0	10,5	15,0	11,0	14,5	33,0	2,45	4,8	0,8	130	100/500
26 06 84	2,5 - 6,0	4,0	4,2	8,0	14,0	8,4	26,5	3,50	6,6	1,0	80	100/500
26 06 86		5,0	5,2	10,0	14,0	10,2	29,6	3,50	6,6	1,0	80	100/500
26 06 88		6,0	6,2	11,0	14,0	11,0	30,6	3,50	6,6	1,0	80	100/500
26 06 90		8,0	8,2	15,0	14,0	15,3	37,0	3,50	6,6	1,0	90	100/500
26 06 92		10,0	10,5	19,0	14,0	16,5	40,0	3,50	6,6	1,0	110	100/500



Round pin, nylon-insulated

copper tinned, nylon-insulated, 105°

Art. No.	CS	B	E	A	L	d	D	weight	PU
26 07 70	0,25 - 1,5	1,9	12	10,4	22	1,95	4,2	60	100/500
26 07 72	1,5 - 2,5	1,9	12	11,0	23	2,45	4,8	65	100/500
26 07 74	2,5 - 6,0	2,7	14	14,0	28	3,60	6,6	160	100/500



Fork type, nylon-insulated

copper tinned, nylon-insulated, 105°

Art. No.	CS	M	F	B	A	E	L	d	D	s	weight	PU
26 07 00	0,25 - 1,5	3,0	3,2	5,6	10,4	6,7	20,0	1,95	4,2	0,8	300	100/500
26 07 02		3,5	3,7	6,5	10,4	6,5	19,4	1,95	4,2	0,8	300	100/500
26 07 04		4,0	4,2	6,4	10,4	6,3	20,9	1,95	4,2	0,8	350	100/500
26 07 06		5,0	5,2	8,0	10,4	8,0	21,2	1,95	4,2	0,8	450	100/500
26 07 08		6,0	6,2	9,2	10,4	8,3	22,4	1,95	4,2	0,8	400	100/500
26 07 10	1,5 - 2,5	3,0	3,2	5,6	11,0	8,4	23,0	2,45	4,8	0,8	325	100/500
26 07 14		4,0	4,2	6,6	11,0	5,3	20,3	2,45	4,8	0,8	325	100/500
26 07 16		5,0	5,2	9,1	11,0	9,5	25,0	2,45	4,8	0,8	400	100/500
26 07 18		6,0	6,3	10,0	11,0	11,2	27,0	2,45	4,8	0,8	450	100/500
26 07 20	2,5 - 6,0	3,5	3,7	8,1	14,0	7,2	26,0	3,50	6,6	1,0	550	100/500
26 07 21		4,0	4,2	8,1	14,0	7,2	26,0	3,50	6,6	1,0	550	100/500
26 07 22		5,0	5,2	9,0	14,0	10,5	28,5	3,50	6,6	1,0	800	100/500
26 07 24		6,0	6,3	11,0	14,0	11,0	29,5	3,50	6,6	1,0	850	100/500



Butt connectors, nylon-insulated

copper tinned, nylon-insulated, 105°

Art. No.	CS	B	L	d	D	weight	PU
26 07 50	0,25 - 1,5	15	22,7	1,7	4,0	900	100/500
26 07 52	1,5 - 2,5	15	22,7	2,3	4,5	1150	100/500
26 07 54	2,5 - 6,0	15	26,7	3,4	6,8	2300	100/500



Empty boxes

made of sheet metal, painted, without contents

Art. No.	length	width	height	compart.	weight	PU
22 00 90	366	230	51	20	2400	1
22 00 91	350	170	46	5	2200	1
22 00 92	370	160	40	9	2300	1
22 00 93	400	250	50	13	2500	1



22 00 91



22 00 92



22 00 93



22 00 90

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Assortements insulated terminals

Containing: 1.050 terminals
 700 insulated terminals ring type in gängigen Größen
 150 insulated terminals fork type in gängigen Größen
 150 insulated terminals round pin in gängigen Größen
 50 socket sleeves insulated (female) in gängigen Größen
 1 crimping pliers (Art. 21 07 61), crimping range 0,25 - 6 mm²

Art. No.	weight	PU
26 07 62	3500	1



Assortements insulated terminals

Containing: 800 terminals
 Terminals ring type: 100 pieces: Art. No. 26 02 52/26 02 56/26 02 58/26 02 70/26 02 72
 50 pieces: Art. No. 26 02 74/26 02 84/26 02 86/26 02 88
 Terminals fork type: 100 pieces: Art. No. 26 03 00/26 03 04
 50 pieces: Art. No. 26 03 16/26 03 18
 1 crimping pliers (Art. 21 08 02), crimping range 1,5 - 6 mm²

Art. No.	weight	PU
26 07 60	3500	1



Assortements insulated terminals

Containing: 1.250 terminals
 Terminals ring type: 100 pieces: Art. No. 26 02 52/26 02 56/26 02 58/26 02 70/26 02 72/26 02 86
 50 pieces: Art. No. 26 02 74/26 02 88
 50 insulated female Art. No. 26 04 24
 50 butt connectors Art. No. 26 03 50/26 03 52/26 03 54
 50 terminals fork type Art. No. 26 03 04/26 03 14/26 03 22
 50 terminals round pin Art. No. 26 03 70/26 03 72/26 03 74
 50 female 26 03 94
 1 crimping pliers (Art. 21 08 02), crimping range 1,5 - 6 mm²

Art. No.	weight	PU
26 07 64	3700	1
26 20 48	3400	1



CS cross section in mm ²	length in mm	PU packing unit in pieces
IF identification figure	M bolt M in mm	weight in gr.
height in mm	plug flat plug	width in mm

Insulated crimping terminals DIN

nylon, acc. DIN 46237

Art. No.	CS	M	Colour	weight	PU
26 08 58	10	5	red	750	50
26 08 60		6	red	800	50
26 08 62	16	5	blue	850	50
26 08 63		8	blue	900	50



Insulated crimping terminals DIN

nylon, acc. DIN 46237

Art. No.	CS	M	d1	d2	d4	a	l	KG/100 pc.	PU
260902	10	5	4,5	5,3	8	16,5	24,5	0,250	100
260904		6		6,5			25,5	0,280	100
260906		8		8,4			28,5	0,330	100
260908		10		10,5			29,5	0,380	100
260910		12		13,0			31,5	0,460	100
260912	16	5	5,8	5,3	11	21,5	31,5	0,400	100
260914		6		6,5			31,5	0,400	100
260916		8		8,4			33,5	0,480	100
260918		10		10,5			35,5	0,500	100
260920		12		13,0			37,5	0,630	100
260922	25	5	7,5	5,3	13	24	38	0,800	100
260924		6		6,5			38	0,780	100
260926		8		8,4			38	0,850	100
260928		10		10,5			39	0,900	100
260930		12		13,0			44	1,100	100
260932		16		17,0			48	1,350	100
260934	35	6	9	6,5	14,5	27	41	1,150	100
260936		8		8,4			41	1,120	100
260938		10		10,5			42	1,120	100
260940		12		13,0			46	1,360	100
260942		16		17,0			51	1,680	100
260944	50	6	11	6,5	16,5	29,5	47,5	2,000	100
260946		8		8,4			47,5	1,990	100
260948		10		10,5			47,5	1,850	100
260950		12		13,0			49,5	2,030	100
260952		16		17,0			53,5	2,350	100
260954	70	6	13	6,5	18,7	31,5	51	2,950	100
260956		8		8,4			51	2,850	100
290958		10		10,5			51	2,850	100
260960		12		13,0			51	2,650	100
260962		16		17,0			55	3,100	100
260964	95	8	15	8,4	21,7	35,5	57,5	4,550	50
260966		10		10,5			57,5	4,450	50
260968		12		13,0			57,5	4,500	50
260970		16		17,0			59,5	4,600	50
260972	120	8	16,5	8,4	24,2	40	62	6,000	50
260974		10		10,5			62	6,100	50
260976		12		13,0			62	6,000	50
260978		16		17,0			66	6,300	50
260980	150	10	19	10,5	27,2	44	70	8,450	25
260982		12		13,0			70	8,450	25
260984		16		17,0			70	8,300	25



Pliers for:

insulated crimping terminals

CS	crimping pliers	mechan. pliers	pneum. hydraul. pliers	catalouge-page
0,25 - 2,5	21 08 45			24
0,25 - 6,0	21 08 02			24
	21 07 61			24
0,5 - 0,6	21 08 08			24
	21 08 14			24

Pliers for:

insulated crimping terminals

CS	crimping pliers	mechan. pliers	pneum. hydraul. pliers	catalouge-page
10,0 - 16	21 08 27			24
		21 50 00		34
10,0 - 35		21 51 00		36

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Consumable items

Connectors
Ring terminals
Terminals
DIN-terminals

Socket sleeve (female) with cable adjustment

brass bright, uninsulated, DIN 46247/part 1 - 3

Art. No.	CS	plug	W	L	E	weight	PU
28 00 00	0,5 - 1,00	6,3 x 0,8	7,6	19,2	7,6	500	200
28 00 04	1,0 - 2,50	6,3 x 0,8	7,6	19,2	7,6	1100	200
28 00 08	0,5 - 1,25	4,8 x 0,8	5,6	15	6,4	1000	200
28 00 12		4,8 x 0,5	5,6	15	6,4	1000	200
28 00 16		2,8 x 0,8	3,75	16	6,4	1000	200
28 00 20		2,8 x 0,5	3,75	16	6,4	1000	200



Socket sleeve (female) with cable adjustment

tinned, uninsulated, DIN 46247/part 1 - 3

Art. No.	CS	plug	W	L	E	weight	PU
28 00 30	0,5 - 1,00	6,3 x 0,8	7,6	19,2	7,6	500	200
28 00 34	1,0 - 2,50	6,3 x 0,8	7,6	19,2	7,6	1100	200
28 00 38	0,5 - 1,25	4,8 x 0,8	5,6	15	6,4	1000	200
28 00 42		4,8 x 0,5	5,6	15	6,4	1000	200
28 00 46		2,8 x 0,8	3,75	16	6,4	1000	200
28 00 50		2,8 x 0,5	3,75	16	6,4	1000	200

Socket sleeve (female) with cable adjustment

with side connection, flag type, brass bright, uninsulated

Art. No.	CS	plug	W	L	E	weight	PU
28 00 60	0,5 - 1,0	6,3 x 0,8	7,6	14,1	7,6	1300	200
28 00 64	1,0 - 2,5	6,3 x 0,8	7,6	14,1	7,6	1300	200



Socket sleeve (female) with cable adjustment

mit seitlichem Leiteranschluß, brass tinned, uninsulated

Art. No.	CS	plug	W	L	E	weight	PU
28 00 70	0,5 - 1,0	6,3 x 0,8	7,6	14,1	7,6	1300	200
28 00 74	1,0 - 2,5	6,3 x 0,8	7,6	14,1	7,6	1300	200

Socket sleeve (female) with cable adjustment

with big back, brass bright, uninsulated

Art. No.	CS	plug	W	L	E	weight	PU
28 00 80	0,5 - 1,0	6,3 x 0,8	7,6	19,6	7,7	600	200
28 00 84	1,0 - 2,5	6,3 x 0,8	7,6	16,2	7,7	600	200



Socket sleeve (female) with cable adjustment

with big back, brass tinned, uninsulated

Art. No.	CS	plug	W	L	E	weight	PU
28 00 90	0,5 - 1,0	6,3 x 0,8	7,6	19,6	7,7	600	200
28 00 94	1,0 - 2,5	6,3 x 0,8	7,6	16,2	7,7	600	200

CS cross section in mm²
IF identification figure
height in mm

length in mm
M bolt M in mm
plug flat plug

PU packing unit in pieces
weight in gr.
width in mm

Socket (male)

brass bright, uninsulated

Art. No.	CS	plug	L	E	weight	PU
28 01 00	0,5 - 1,0	6,3 x 0,8	20,6	6,35	1200	200
28 01 04	1,0 - 2,5	6,3 x 0,8	17,2	6,35	1200	200



Socket (male)

tinned, uninsulated

Art. No.	CS	plug	L	E	weight	PU
28 01 10	0,5 - 1,0	6,3 x 0,8	20,6	6,35	1200	200
28 01 14	1,0 - 2,5	6,3 x 0,8	17,2	6,35	1200	200



Ring terminals

brass bright, uninsulated

Art. No.	CS	F	E	L	W	weight	PU
28 01 20	0,5 - 1	3,2	17	21	8	1200	200
28 01 24		4,3	17	21	8	1200	200
28 01 28		5,08	17	22	9,5	1200	200
28 01 32	1 - 2,5	3,2	17	21	8	1400	200
28 01 36		4,3	17	21	8	1400	200
28 01 40		5,08	17	22	9,5	1400	200



Ring terminals

brass tinned, uninsulated

Art. No.	CS	F	E	L	W	weight	PU
28 01 50	0,5 - 1	3,2	17	21	8	1200	200
28 01 54		4,3	17	21	8	1200	200
28 01 58		5,08	17	22	9,5	1200	200
28 01 62	1 - 2,5	3,2	17	21	8	1400	200
28 01 66		4,3	17	21	8	1400	200
28 01 70		5,08	17	22	9,5	1400	200



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Blade terminals (male)

brass bright, uninsulated

Art. No.	form	socket	length	drill-Ø	a	length	weight	PU
28 01 80	1	6,3 x 0,8	8	4,2	0°	19,20	500	200
28 01 82	5	6,3 x 0,8	8	4,2	45°	10,20	500	200
28 01 84	2	6,3 x 0,8	8	4,2	90°	11,30	500	200
28 01 86	4	6,3 x 0,8	8	4,2	0°	30,30	500	200
28 01 88	3	6,3 x 0,8	8	4,2	90°	11,45	500	200



Blade terminals (male)

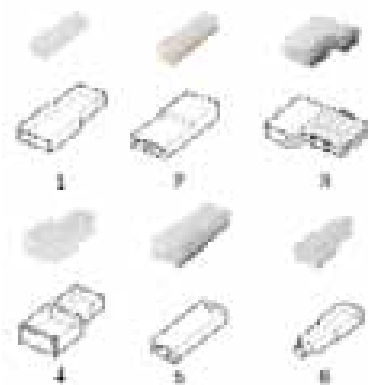
brass tinned, uninsulated

Art. No.	form	socket	length	drill-Ø	a	length	weight	PU
28 01 90	1	6,3 x 0,8	8	4,2	0°	19,20	500	200
28 01 92	5	6,3 x 0,8	8	4,2	45°	10,20	500	200
28 01 94	2	6,3 x 0,8	8	4,2	90°	11,30	500	200
28 01 96	4	6,3 x 0,8	8	4,2	0°	30,30	500	200
28 01 98	3	6,3 x 0,8	8	4,2	90°	11,45	500	200

Sleeves

PVC and nylon

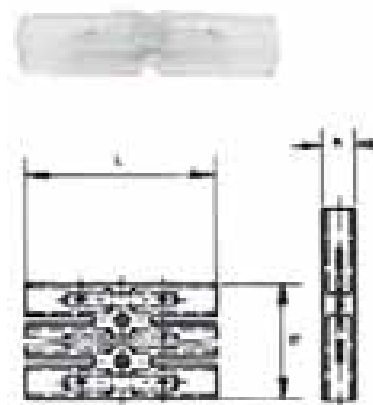
Art. No.	form	material	socket	weight	PU
28 02 00	1	PVC	6,3	150	100
28 02 02	2	nylon	6,3	150	100
28 02 04	6	PVC	4,8	150	100
28 02 06	2	nylon	4,8	150	100
28 02 08	6	PVC	2,8	150	100
28 02 10	5	nylon	2,8	150	100
28 02 12	4	PVC	6,3	150	100
28 02 14	3	nylon	6,3	150	100



Blade terminals, 1 - 12 way

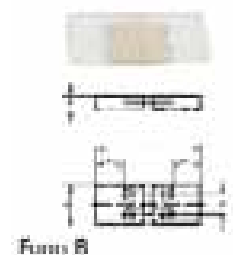
PVC, natural coloured

Art. No.	plug	pole	length	width	height	Screw holes		weight	PU
						mm	Ø		
28 04 60	2,8 x 0,8	1	7,5	35	5,5	-	-	200	100
28 04 82	2,8 x 0,8	12	88	35	5,5	75	2,7	1600	10
28 04 90	4,8 x 0,8	1	12,5	28	7	-	-	250	100
28 05 12	4,8 x 0,8	12	147	28	7	123	3,2	2800	10
28 05 20	6,3 x 0,8	1	12,5	28	7	-	-	300	100
28 05 42	6,3 x 0,8	12	147	28	7	123	3,2	3200	10
28 05 50	2,8 x 0,8	1	12,5	28	7	-	-	250	100
28 05 72	2,8 x 0,8	12	147	28	7	121	3,2	2800	50



Circuit distributors

Art. No.	plug	L	l1	b	b1	b2	h	form	weight	PU
28 05 80	6,3 x 0,8	53	15	21	11,3	9	7,5	A	600	50
28 05 82	6,3 x 0,8	51	13	20	-	9	7	B	650	50



Instructions

1. The choice of the connector

In order to obtain a connection that can be guaranteed for a long time it is necessary to select the connectors suitable to the application field and strictly conform to the section of the cable to be crimped.

In the large range of Haupa products you will certainly find the ideal solution for every requirement.

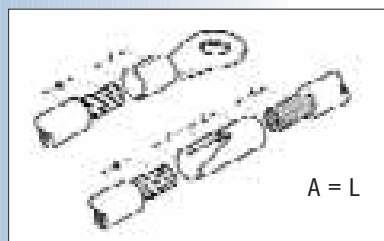
2. Stripping

Every crimping operation requires first that the cable is stripped without deforming the wires.

Ø mm ²	stripping tolerance
	+/- mm
0,5 - 2,5	0,8
4 - 6	1,2
10 - 120	1,6
150 - 630	3,2

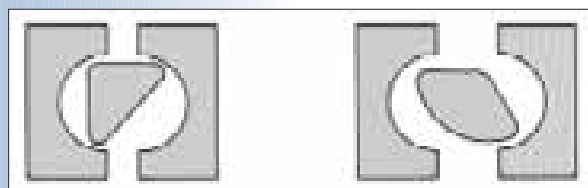
3. Cleaning

The conductor ends have to be solidly cleaned from oxidation and every rest of dirt before mounting.



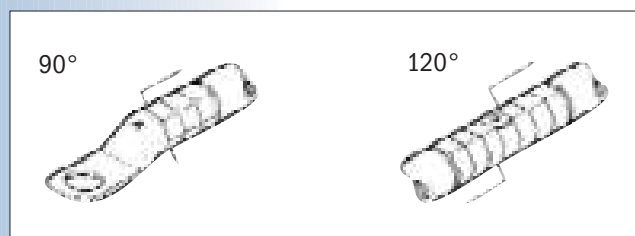
4. Assembling

- Fit the connector to the cable with a round section in the complete length of the stripped area.
- Verify that there are no wires outside the connector. If you need to use sectoral cables you must arrange a previous rounding crimping operation of the cable.



5. Choice of the crimping tool

All dies and punchings of the Haupa crimping system guarantee a high degree of connection between connector and cable. Exercise the crimping operation as shown in drawing 1 on the terminals and as drawing 2 on the butt connectors. The elevated pressure exerted by dies on terminals cause a uniform deformation on the whole crimping area.



Uninsulated crimping terminals

copper tinned 99,9%, ring type

Art. No.	CS	M	F	B	L	d	A	weight	PU
29 06 19	0,25 - 1,5	2,5	2,60	8	17,25	1,95	5,20	50	100
29 06 20		3	3,20	8	17,25	1,95	5,20	50	100
29 06 21		3,5	3,70	8	17,25	1,95	5,20	50	100
29 06 22		4	4,20	8	16,65	1,95	5,20	50	100
29 06 24		5	5,20	8	17,25	1,95	5,20	100	100
29 06 23		6	6,20	10	18,50	1,95	5,20	50	100
29 06 25		8	8,20	14	25	1,95	5,20	100	100
29 06 17		10	10,50	14	25	1,95	5,20	100	100
29 06 18	1,5 - 2,5	2,5	2,60	8	17,25	2,45	5,20	50	100
29 06 26		3	3,20	8	17,25	2,45	5,20	100	100
29 06 27		3,5	3,70	8	17,25	2,45	5,20	100	100
29 06 28		4	4,20	8	17,25	2,45	5,20	50	100
29 06 30		5	5,20	10	20	2,45	5,20	50	100
29 06 32		6	6,20	11	22	2,45	5,20	100	100
29 06 34		8	8,20	15	26,80	2,45	5,20	100	100
29 06 35		10	10,50	15	26,80	2,45	5,20	200	100
29 06 37	2,5 - 6,0	3,5	3,70	8	18,70	3,50	6,50	150	100
29 06 36		4	4,20	8	18,70	3,50	6,50	150	100
29 06 38		5	5,20	10	21,80	3,50	6,50	200	100
29 06 40		6	6,20	11	23,00	3,50	6,50	200	100
29 06 42		8	8,20	15	29,30	3,50	6,50	250	100
29 06 44		10	10,50	19	32,20	3,50	6,50	350	100



Uninsulated crimping terminals

copper tinned 99,9%
fork type

Art. No.	CS	M	F	B	L	d	A	weight	PU
29 07 29	0,25 - 1,5	2,5	2,60	5,6	14,60	1,95	5,20	50	100
29 07 30		3	3,20	5,60	14,60	1,95	5,20	50	100
29 07 31		3,5	3,70	6,50	14,90	1,95	5,20	50	100
29 07 32		4	4,20	6,40	15	1,95	5,20	100	100
29 07 34		5	5,20	8,00	16,25	1,95	5,20	100	100
29 07 35		6	6,20	9,20	17,50	1,95	5,20	100	100
29 07 37	1,5 - 2,5	2,5	2,60	5,60	17,25	2,45	5,20	100	100
29 07 36		3	3,20	5,60	17,25	2,45	5,20	100	100
29 07 39		3,5	3,70	6,60	14,30	2,45	5,20	100	100
29 07 38		4	4,20	6,60	14,30	2,45	5,20	100	100
29 07 40		5	5,20	9,10	19,25	2,45	5,20	100	100
29 07 42		6	6,20	10	21	2,45	5,20	50	100
29 07 43	2,5 - 6,0	3,5	3,70	8	19,65	3,50	6,50	100	100
29 07 44		4	4,20	8	18,60	3,50	6,50	100	100
29 07 46		5	5,20	9	21,10	3,50	6,50	150	100
29 07 48		6	6,20	11	22,30	3,50	6,50	150	100
29 07 50		8	8,20	15,20	27,30	3,50	6,50	150	100
29 07 51		10	10,50	19	30,20	3,50	6,50	300	100
29 07 52	6,0 - 10,0	5	5,2	9	20,8	4,7	8,50	300	100
29 07 54		6	6,4	10,3	20,8	4,7	8,50	250	100
29 07 56	10,0 - 16,0	6	6,4	11,0	25,5	5,8	10,50	250	100



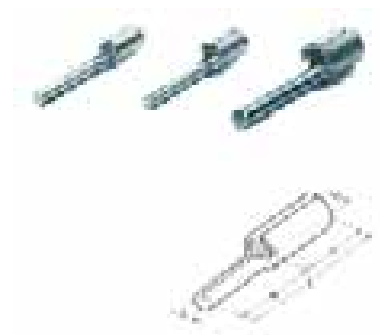
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Uninsulated crimping terminals

copper tinned 99,9%
pin type DIN 46230

Art. No.	CS	A	B	E	L	d	weight	PU
29 07 70	0,25 - 1,5	1,8	12	5	17,3	1,85	20	100
29 07 71		1,8	9	5	17,3	1,85	30	100
29 07 73	1,5 - 2,5	1,8	9	5	17,3	2,40	50	100
29 07 75		1,8	9	5	17,3	2,40	100	100
29 07 77	2,5 - 6,0	2,6	12,5	6	20,5	3,60	150	100
29 07 76	10	4,0	14	8,5	24,5	4,50	200	100
29 07 78	16	4,5	14	10,5	26,5	5,80	450	100
29 07 80	25	7,0	15	14	33	7	70	100
29 07 82	35	8,0	20	16	40	8,2	1200	100
29 07 84	50	9,5	20	19	45	9,5	2300	100
29 07 86	70	11,5	25	24	55	11,2	3000	100
29 07 88	95	12,5	25	24	55	13,5	4000	100



Uninsulated crimping terminals

butt connectors, copper tinned 99,9%

Art. No.	CS	B	L	d	weight	PU
29 01 35	0,25 - 1,5	3,3	15,0	1,7	100	100
29 01 36	1,5 - 2,5	4,1	15,0	2,3	150	100
29 01 37	2,5 - 6,0	5,4	15,0	3,4	200	100



Uninsulated crimping terminals

parallel connectors, copper tinned 99,9%

Art. No.	CS	B	L	d	weight	PU
29 00 85	0,25 - 1,5	3,3	8,4	1,7	50	100
29 00 86	1,5 - 2,5	4,1	8,4	2,3	50	100
29 00 88	2,5 - 6,0	5,4	8,4	3,4	50	100



Crimping terminals DIN 46234

uninsulated, copper tinned 99,9%, ring type

Art. No.	CS	M	d	F	B	L	A	weight	PU
29 06 46	6	5	3,60	5,30	10	15	6	200	100
29 06 48		6	3,60	6,50	11	16	6	200	100
29 06 50		8	3,60	8,40	14	19	6	250	100
29 06 52		10	3,60	10,50	18	21	6	300	100
29 06 54		12	3,60	13,0	18	21	6	250	100
29 06 56	10	5	4,50	5,30	10	16	8	250	100
29 06 58		6	4,50	6,40	11	17	8	250	100
29 06 60		8	4,50	8,40	14	20	8	300	100
29 06 62		10	4,50	10,50	18	21	8	350	100
29 06 63		12	4,50	13,00	22	23	8	450	100
29 06 64	16	5	5,80	5,30	10	20	10	500	100
29 06 66		6	5,80	6,40	11	20	10	400	100
29 06 68		8	5,80	8,40	14	22	10	450	100
29 06 70		10	5,80	10,50	18	24	10	500	100
29 06 72		12	5,80	13,00	22	26	10	650	100
29 06 74		16	5,80	17,00	32	36	10	1250	100
29 06 76	25	6	7,50	6,40	12	25	11	350	50
29 06 78		8	7,50	8,40	16	25	11	400	50
29 06 80		10	7,50	10,50	18	26	11	400	50
29 06 82		12	7,50	13,00	22	31	11	500	50
29 06 83		14	7,50	15,00	30	37	11	500	50
29 06 84		16	7,50	17,00	28	35	11	200	50
29 06 86	35	8	9,00	8,40	16	26	12	200	50
29 06 88		10	9,00	10,50	18	27	12	550	50
29 06 90		12	9,00	13,00	22	31	12	600	50
29 06 91		14	9,00	15,00	28	36	12	700	50
29 06 92		16	9,00	17,00	28	36	12	900	50
29 06 94	50	8	11,00	8,40	18	34	16	850	50
29 06 96		10	11,00	10,50	18	34	16	900	50
29 06 98		12	11,00	13,00	22	36	16	950	50
29 06 99		14	11,00	15,00	28	40	16	1150	50
29 07 00		16	11,00	17,00	28	40	16	1100	50
29 07 01	70	8	13,00	8,40	22	38	18	1400	50
29 07 02		10	13,00	10,50	22	38	18	1350	50
29 07 04		12	13,00	13,00	22	38	18	1300	50
29 07 06		14	13,00	15,00	28	42	18	1400	50
29 07 07	95	8	15,00	8,40	24	42	20	1800	50
29 07 08		10	15,00	10,50	24	42	20	2050	50
29 07 10		12	15,00	13,00	24	42	20	2000	50
29 07 11		14	15,00	15,00	28	44	20	2000	50
29 07 12		16	15,00	17,00	28	44	20	2350	50
29 07 13	120	10	16,50	10,50	24	44	22	1350	25
29 07 14		12	16,50	13,00	24	44	22	1400	25
29 07 15		14	16,50	15,00	28	44	22	1400	25
29 07 16		16	16,50	17,00	28	48	22	1500	25
29 07 17		20	16,50	21,00	32	53	22	1500	25
29 07 19	150	10	19,00	10,50	30	50	24	2050	25
29 07 21		12	19,00	13,00	30	50	24	2000	25
29 07 22		14	19,00	15,00	30	50	24	2000	25
29 07 18		16	19,00	17,00	30	50	24	1900	25
29 07 23		20	19,00	21,00	36	63	24	2050	25
29 07 20	185	16	21,00	17,00	36	50	25	2050	25



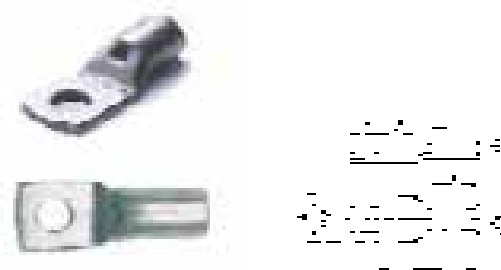
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...Technology that connects

Tube terminals

made from tube, copper tinned 99,9%, with and without inspection hole

Example for Art. No. with inspection hole: 29 09 00/S



Art. No.	CS	M	crimps quantity		d1	d2	d4	a	b	c1	c2	l	KG/100 pc.	PU	Dealer Box
			small	wide											
290900	0,75	3	1		1,3	3,2	2,8	6	6,0	3,25	4,0	12	0,060	100	2000
290902		4	1			4,3			6,5	4,00	5,0	13	0,060	100	2000
290904	1,5	3	1		1,8	3,2	3,3	6	6,5	3,25	4,0	12	0,080	100	2000
290906		4	1			4,3			6,5	4,00	5,0	13	0,080	100	2000
290908		5	1			5,3			7,5	4,75	5,5	14	0,080	100	2000
290910		6	1			6,5			9,0	6,50	6,5	16	0,090	100	2000
290912	2,5	3	1		2,3	3,2	4,2	6	7,5	3,25	4,0	12	0,120	100	2000
290914		4	1			4,3			7,5	4,00	5,0	13	0,120	100	2000
290916		5	1			5,3			8,5	4,75	5,5	14	0,130	100	2000
290918		6	1			6,5			9,5	6,50	6,5	16	0,150	100	2000
290920		8	1			8,5			13,0	7,75	9,5	20	0,180	100	2000
290922	4,0	4	1		3	4,3	5	8	8,5	4,75	5,5	17	0,210	100	2000
290924		5	1			5,3			9,0	4,75	6,0	17	0,210	100	2000
290926		6	1			6,5			10,0	6,50	6,5	19	0,220	100	2000
290928		8	1			8,5			13,0	8,50	9,5	22	0,280	100	2000
290930	6,0	4	1		3,5	4,3	6,5	9	8,5	5,00	5,5	18	0,290	100	1800
290932		5	1			5,3			10,0	6,50	7,5	21	0,470	100	1800
290934		6	1			6,5			12,0	6,50	7,5	21	0,470	100	1400
290936		8	1			8,5			15,0	10,00	10,0	23	0,540	100	1400
290938	10	5	1		4,5	5,3	7	10	12,0	6,50	7,5	22	0,500	100	1000
290940		6	1			6,5			12,0	6,50	7,5	22	0,490	100	1000
290942		8	1			8,5			15,0	10,00	10,0	25	0,580	100	800
290944		10	1			10,5			17,0	12,00	12,0	27	0,620	100	600
290946		12	1			13,0			19,0	13,00	13,0	29	0,640	100	600
290948	16	5	1	1	5,5	5,3	8,5	13	12,0	5,50	6,5	26	0,840	100	600
290950		6	1	1		6,5			12,0	6,25	7,5	27	0,860	100	600
290952		8	1	1		8,5			15,0	8,50	9,5	29	0,930	100	400
290954		10	1	1		10,5			17,0	10,50	11,5	31	0,990	100	400
290956		12	1	1		13,0			19,0	12,00	13,0	33	1,020	100	400
290958	25	6	2	1	7	6,5	10	15	14,0	7,50	7,5	30	1,200	50	400
290960		8	2	1		8,5			16,0	10,00	10,0	32	1,300	50	400
290962		10	2	1		10,5			18,0	12,00	12,0	34	1,550	50	300
290964		12	2	1		13,0			19,0	13,00	13,0	35	1,400	50	300
290966	35	6	2	1	8,5	6,5	12	17	17,0	7,50	7,5	32	1,850	40	240
290968		8	2	1		8,5			17,0	10,00	10,0	34	2,000	40	240
290970		10	2	1		10,5			19,0	12,00	12,0	37	2,150	40	160
290972		12	2	1		13,0			21,0	13,00	13,0	38	2,120	40	160
290974		16	2	1		17,0			26,0	16,00	16,0	42	2,240	35	140
290976	50	6	2	1	10	6,5	14	19	20,0	10,00	10,0	37	3,000	25	150
290978		8	2	1		8,5			20,0	10,00	10,0	37	3,000	25	150
290980		10	2	1		10,5			20,0	12,00	12,0	39	3,080	25	150
290982		12	2	1		13,0			23,0	13,00	13,0	43	3,230	25	100
290984		16	2	1		17,0			28,0	16,00	16,0	46	3,400	25	100
290985	70	6	2	1	12	6,5	16,5	21	23,0	10,00	10,0	43	4,500	25	100
290986		8	2	1		8,5			23,0	10,00	10,0	43	4,400	25	100
290988		10	2	1		10,5			23,0	12,00	12,0	44	4,500	25	100
290990		12	2	1		13,0			23,0	13,00	13,0	46	4,600	25	100
290991		14	2	1		15,0			23,0	14,50	14,5	48	4,770	25	100
290992		16	2	1		17,0			28,0	16,00	16,0	50	4,300	25	100
290994	95	8	2	1	13,5	8,5	18	25	26,0	12,00	12,0	48	5,450	25	100
290996		10	2	1		10,5			26,0	12,00	12,0	48	5,450	25	100
290998		12	2	1		13,0			26,0	13,00	13,0	49	5,550	25	100
290999		14	2	1		15,0			26,0	14,50	14,5	51	5,600	10	40
291000		16	2	1		17,0			28,0	16,00	16,0	54	5,800	10	40
291002		20	2	1		21,0			36,0	22,00	22,0	60	6,700	10	40

CS cross section in mm²
 IF identification figure
 height in mm

length in mm
 M bolt M in mm
 plug flat plug

PU packing unit in pieces
 weight in gr.
 width in mm

Tube terminals (continued)

made from tube, copper tinned 99,9%, with and without inspection hole

Example for Art. No. with inspection hole: 29 00 04/S



Art. No.	CS	M	crimps quantity		d1	d2	d4	a	b	c1	c2	l	KG/100 pc.	PU	Dealer Box
			small	wide											
290004	120	8	2	1	15	8,5	19,5	26	28,0	14,00	14,0	51	6,700	20	20
290006		10	2	1		10,5			28,0	14,00	14,0	51	6,550	20	80
290008		12	2	1		13,0			28,0	14,00	14,0	51	6,400	20	80
290009		14	2	1		15,0			28,0	15,00	15,0	52	6,450	18	72
290010		16	2	1		17,0			30,0	16,00	16,0	54	6,500	18	72
290012		20	2	1		21,0			36,0	22,00	22,0	63	7,700	15	60
290014	150	10	2	1	16,5	10,5	21	30	31,0	14,00	14,0	56	7,600	12	72
290016		12	2	1		13,0			31,0	15,00	15,0	57	7,700	12	72
290017		14	2	1		15,0			31,0	15,00	15,0	57	7,650	12	72
290018		16	2	1		17,0			31,0	16,00	16,0	58	7,500	12	48
290020		20	2	1		21,0			36,0	22,00	22,0	66	8,800	12	48
290022	185	12	2	1	19	13,0	24	30	35,0	18,00	18,0	65	11,800	20	40
290023		14	2	1		15,0			35,0	18,00	18,0	65	11,400	20	40
290024		16	2	1		17,0			35,0	18,00	18,0	65	11,250	20	40
290026		20	2	1		21,0			39,0	22,00	22,0	69	12,000	20	40
290028	240	12	4	2	21	13,0	26	35	39,0	21,50	19,0	72	14,550	15	30
290029		14	4	2		15,0			39,0	21,50	19,0	72	14,250	15	30
290030		16	4	2		17,0			39,0	21,50	19,0	72	14,100	15	30
290034	300	12	4	2	23,5	13,0	29,5	44	43,0	24,00	24,0	72	23,350	8	16
290036		14	4	2		15,0			43,0	24,00	24,0	87	23,150	8	16
290038		16	4	2		17,0			43,0	24,00	24,0	87	22,750	8	16
290040		20	4	2		21,0			43,0	24,00	24,0	87	22,200	8	16
290046	400	16	4	2	27	17,0	34	44	49,0	24,00	24,0	90	32,000	5	10
290048		20	4	2		21,0			49,0	24,00	24,0	90	31,400	5	10
290041	500	16	4	2	31	17,0		70	55,0				47,860	4	8
290043		20	4	2		21,0			55,0				47,800	4	8
290045	625	16	4	2	34	17,0		70	60,0				51,350	3	6
290047		20	4	2		21,0			60,0				50,600	3	6



Terminals assortment, standard

in metal box, with pliers

Containing:

- 25 terminals 6,0 mm², Bolt M6, Art. No. 29 09 34
- 25 terminals 6,0 mm², Bolt M8, Art. No. 29 09 36
- 25 terminals 10,0 mm², Bolt M6, Art. No. 29 09 40
- 25 terminals 10,0 mm², Bolt M8, Art. No. 29 09 32
- 25 terminals 16,0 mm², Bolt M8, Art. No. 29 09 52
- 25 terminals 16,0 mm², Bolt M10, Art. No. 29 09 54
- 25 terminals 25,0 mm², Bolt M8, Art. No. 29 09 60
- 25 terminals 25,0 mm², Bolt M10, Art. No. 29 09 62
- 20 terminals 35,0 mm², Bolt M8, Art. No. 29 09 34
- 20 terminals 35,0 mm², Bolt M10, Art. No. 29 09 70
- 20 terminals 50,0 mm², Bolt M10, Art. No. 29 09 80
- 20 terminals 50,0 mm², Bolt M12, Art. No. 29 09 82
- 1 crimping pliers (Art. 21 08 05), crimping range 6 - 50 mm², hexagon crimping Standard
- 1 metal box 400 x 250 x 50 mm



Art. No.	weight	PU
29 02 46	7000	1

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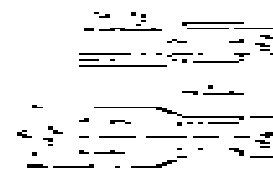
...Technology that connects

Tube terminals for finewiring conductors

without inspection hole

Electrolytic copper tube 99,9 %, copper tinned acc. to DIN 40500

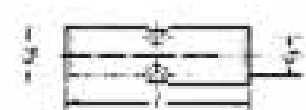
Art. No.	CS	M	d1	d2	b	l	a	weight	PU
29 02 50	10	6	5	6,5	11	22	11	370	100
29 02 52		8	5	8,4	15	26	11	440	100
29 02 54		10	5	10,5	18	29	11	460	100
29 02 56		12	5	13	20	30	11	460	100
29 02 58	16	6	6	6,5	13	27	13	690	100
29 02 60		8	6	8,4	15	28	13	770	100
29 02 62		10	6	10,5	18	32	13	820	100
29 02 64		12	6	13	20	32	13	820	100
29 02 66	25	6	7,7	6,5	16	32	16	1090	100
29 02 68		8	7,7	8,4	16	32	16	1150	100
29 02 70		10	7,7	10,5	18	34	16	1230	100
29 02 72		12	7,7	13	20	35	16	1240	100
29 02 76	35	8	9	10,5	20	37	18	1600	100
29 02 78		10	9	13	23	39	18	1800	100
29 02 80		12	9	17	28	45	18	1800	100
29 02 82	50	8	11	8,4	22	42	21	2500	100
29 02 84		10	11	10,5	22	42	21	2450	100
29 02 86		12	11	13	23	42	21	2600	100
29 02 88		16	11	17	28	48	21	2700	100
29 02 90	70	8	13,5	8,4	25	48	24	4100	100
29 02 92		10	13,5	10,5	25	48	24	4000	100
29 02 94		12	13,5	13	25	48	24	3850	100
29 02 96		16	13,5	17	28	52	24	4100	100
29 03 00	95	10	15,5	13	29	53	28	4200	50
29 03 02		12	15,5	17	29	55	28	4100	50
29 03 04		16	15,5	21	34	58	28	4250	50
29 03 06	120	10	16,8	10,5	31	55	29	7550	50
29 03 08		12	16,8	13	31	55	29	7450	50
29 03 10		16	16,8	17	31	56	29	7100	50
29 03 12		20	16,8	21	34	60	29	8100	50
29 03 16	150	12	19	13	36	65	30	10550	25
29 03 18		16	19	17	35	65	30	10200	25
29 03 20		20	19	21	35	65	30	10500	25



Crimping tube tubular connectors/Butt space connectors standard

Electrolytic copper tube 99,9 %, acc. to DIN 40500, tinned

Art. No.	CS	crimps quantity		d1	d4	l	KG/100 pc.	PU	Dealer Box
		small	wide						
29 10 50	0,75	1		1,3	2,8	14	0,085	100	2000
29 10 52	1,5	1		1,8	3,3	14	0,139	100	2000
29 10 54	2,5	1		2,3	4,2	16	0,139	100	2000
29 10 56	4	1		3	5	19	0,275	50	1000
29 10 58	6	1		3,5	6,5	19	0,500	50	1000
29 10 60	10	1		4,5	7	30	0,590	50	600
29 10 62	16	1	1	5,5	8,5	35	1,020	50	500
29 10 64	25	2	1	7	10	40	1,420	50	200
29 10 66	35	2	1	8,5	12	45	2,250	25	200
29 10 68	50	2	1	10	14	50	3,300	25	100
29 10 70	70	2	1	12	16,5	55	4,900	25	50
29 10 72	95	2	1	13,5	18	60	6,000	25	50
29 10 74	120	2	1	15	19,5	65	7,000	25	50
29 10 76	150	2	1	16,5	21	70	8,300	25	50
29 10 78	185	2	1	19	24	80	11,200	18	36
29 10 80	240	4	2	21	26	90	14,000	6	12
29 10 82	300	4	2	23,5	29,5	100	22,200		6
29 10 84	400	4	2	27	34	100	30,000		6



CS cross section in mm²
 IF identification figure
 height in mm

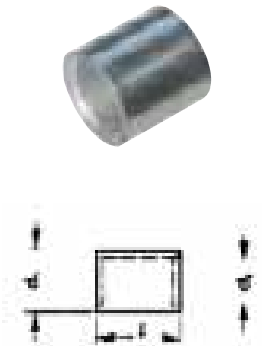
length in mm
 M bolt M in mm
 plug flat plug

PU packing unit in pieces
 weight in gr.
 width in mm

Crimp type tubular connectors DIN 46341 part 1, form A/Butt connectors

99,9% Electrolytic copper tube, tinned

Art. No.	CS	crimps quantity		d1	d2	d4	l	KG/100 pc.	PU	Dealer Box
		small	wide							
291090	0,5-1,0			1,6	3,3	7		0,042	100	2000
291092	1,5-2,5			2,3	4,2	7		0,053	100	2000
291096	4-6	1		3,6	5,5	7		0,088	100	2000
291098	10	1		4,5	7	9		0,164	100	2000
291100	16	1	1	5,5	8,5	10		0,280	50	1000
291102	25	2	1	7	10	13		0,440	50	600
291104	35	2	1	8,5	12	16		0,780	50	500
291106	50	2	1	10	14	19		1,220	50	300
291108	70	2	1	12	16,5	19		1,620	25	200
291110	95	2	1	13,5	18	20		1,900	25	150
291112	120	2	1	15	19,5	22		2,300	20	120
291114	150	2	1	16,5	21	26		3,000	15	60



Crimping tube terminals, nylon insulated

Electrolytic copper tube 99,9 %, tinned

Art. No.	CS	M	d1	d2	d4	a	l	KG/100 pc.	PU
290800	10	5	7	5,5	9	17	35,5	0,500	100
290801		6		6,5			35,5	0,500	100
290802		8		8,5			42	0,600	100
290804		10		10,5			46	0,700	100
290806	16	5	8,5	5,5	10,5	21	39,5	0,900	100
290810		6		6,5			41,3	0,900	100
290812		8		8,5			45,5	1,000	100
290814		10		10,5			49,5	1,100	100
290816		12		13,0			54	1,100	100
290818	25	6	10	6,5	12	24	46,5	1,300	100
290820		8		8,5			51	1,400	100
290822		10		10,5			55	1,600	100
290824		12		13,0			57	1,500	100
290826	35	6	12	6,5	14,5	27	49,5	2,000	100
290830		8		8,5			54	2,200	100
290832		10		10,5			59	2,300	100
290834		12		13,0			61	2,300	100
290836	50	6	14	6,5	16,5	32	59	3,200	100
290840		8		8,5			59	3,200	100
290842		10		10,5			63	3,300	100
290844		12		13,0			68	3,500	100
290846		14		15,0			71,5	3,500	100
290848	70	8	16,4	8,5	18,9	33,5	65,5	4,700	100
290850		10		10,5			66,5	4,800	50
290852		12		13,0			70,5	4,900	50
290854		14		15,0			73,5	5,000	50
290856		16		17,0			78,5	4,500	50
290858	95	8	17,8	8,5	20,8	40	74	5,900	50
290860		10		10,5			74	5,800	25
290862		12		13,0			76	6,000	25
290864		14		15,0			79,5	6,000	25
290866		16		17,0			84	6,200	25
290868	120	8	19,3	8,5	22,3	41,5	80,5	7,200	25
290870		10		10,5			80,5	7,000	25
290872		12		13,0			80,5	6,800	25
290874		14		15,0			82,5	6,900	25
290876		16		17,0			85,5	7,000	25
290878	150	10	20,8	10,5	23,8	48	88	8,200	25
290880		12		13,0			89	8,300	25
209882		14		15,0			90	8,200	25
290884		16		17,0			92	8,100	25
209886		20		21,0			106	9,400	25



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...Technology that connects

Crimping terminals DIN 46235

Electrolytic copper 99,9 %, tinned

* this dimensions are not DIN normed



Art. No.	CS	M	IF	crimps quantity		d1	d2	d4	a	b	c1	c2	l	KG/100 pc.	PU	Dealer	Box
				small	wide												
290404	6	6	5	2		3,8	6,4	5,5	10	8,5	7,5	8	24	0,3	100		800
290406*		8		2			8,4			13	10	10		0,35	100		800
290408	10	5	6	2		4,5	5,3	6	10	9	7	8,5	27	0,37	100		800
290410		6		2			6,4			9	7,5	8,5		0,36	100		800
290412*		8		2			8,4			13	10	10		0,38	100		800
290414*		10		2			10,5			15	8,2	8,2	28	0,38	100		800
290416	16	6	8	2	1	5,5	6,4	8,5	20	13	7,5	8	36	1,2	50		500
290418		8		2	1		8,4			13	10	10		1,25	50		400
290420		10		2	1		10,5			17	12	12		1,3	50		400
290422*		12		2	1		13			18	13	13		1,28	50		400
290424	25	6	10	2	1	7	6,4	10	20	14	7,5	8	38	1,5	50		300
290426		8		2	1		8,4			16	10	10		1,55	50		300
290428		10		2	1		10,5			17	12	12		1,6	50		300
290430		12		2	1		13			19	13	13		1,65	50		300
290432*	35	6	12	2	1	8,2	6,4	12,5	20	17	7,5	8	42	2,75	25		150
290434		8		2	1		8,4			17	10	10		2,9	25		150
290436		10		2	1		10,5			19	12	12		2,85	25		150
290438		12		2	1		13			21	13	13		2,8	25		150
290440	50	8	14	3	1	10	8,4	14,5	28	20	10	10	52	4,45	25		100
290442		10		3	1		10,5			22	12	12		4,5	25		100
290444		12		3	1		13			24	13	13		4,4	25		100
290446		16		3	1		17			28	16	16		4,6	25		100
290448	70	8	16	3	1	11,5	8,4	16,5	28	24	10	10	55	6	25		100
290450		10		3	1		10,5			24	12	12		6,05	25		100
290452		12		3	1		13			24	13	13		5,89	25		100
290454		16		3	1		17			30	16	16		6,2	20		80
290456	95	10	18	4	2	13,5	10,5	19	35	28	12	12	65	9	15		60
290458		12		4	2		13			28	13	13		8,6	15		60
290460		16		4	2		17			32	16	16		9	15		60
290462	120	10	20	4	2	15,5	10,5	21	35	32	15	16	70	11,4	20		40
290464		12		4	2		13			32	16	17		11,3	20		40
290466		16		4	2		17			32	18	19		11,25	20		40
290468		20		4	2		21			38	21	22		11	15		30
290470	150	10	22	4	2	17	10,5	23,5	35	34	15	16	78	16,4	15		30
290472		12		4	2		13			34	16	17		16,3	15		30
290474		16		4	2		17			34	19	20		16,2	15		30
290476		20		4	2		21			40	21	22		15,9	12		24
290478	185	10	25	4	2	19	10,5	25,5	40	37	15	16	82	19	12		24
290480		12		4	2		13			37	16	17		18,1	12		24
290482		16		4	2		17			37	19	20		18,75	12		24
290484		20		4	2		21			40	21	22		18,7	10		20
290486	240	12	28	5	2	21,5	13	29	40	42	16	17	92	27	8		16
290488		16		5	2		17			42	19	20		27,4	8		16
290490		20		5	2		21			45	21	22		26,9	8		16
290492	300	16	32	2	2	24,5	17	32	50	48	19	22	100	33	5		10
290494		20		2	2		21			48	22	22		33,25	5		10
290496	400	16	38	3	3	27,5	17	38,5	70	55	25	25	115	68,5	4		8
290498		20		3	3		21			55	25	25		65,4	4		8
290516	500	20	42	3	3	31	21	42	70	60	25	25	125	81,6	4		8
290518	625	20	44	3	3	34,5	21	44	80	60	25	25		79			6
290520	800	20	52	3	3	40	21	52	100	75	30	30	165	148,6			10
290522	1000	20	58	3	3	44	21	58	100	85	30	30	165	195			10

Terminals assortement, DIN

25 terminals 6,0 mm², Bolt M6, Art. No. 29 04 0425 terminals 6,0 mm², Bolt M8, Art. No. 29 04 0625 terminals 10,0 mm², Bolt M6, Art. No. 29 04 1025 terminals 10,0 mm², Bolt M8, Art. No. 29 04 1225 terminals 16,0 mm², Bolt M8, Art. No. 29 04 1825 terminals 16,0 mm², Bolt M10, Art. No. 29 04 2015 terminals 25,0 mm², Bolt M8, Art. No. 29 04 2615 terminals 25,0 mm², Bolt M10, Art. No. 29 04 2815 terminals 35,0 mm², Bolt M8, Art. No. 29 04 3415 terminals 35,0 mm², Bolt M10, Art. No. 29 04 3610 terminals 50,0 mm², Bolt M10, Art. No. 29 04 4210 terminals 50,0 mm², Bolt M12, Art. No. 29 04 441 crimping pliers (Art. 21 08 05K), crimping range 6 - 50 mm², hexagon crimping DIN

1 metal box 400 x 250 x 50 mm



Art. No.	weight	PU
26 20 41	7250	1

CS cross section in mm²

IF identification figure

height in mm

length in mm

M bolt M in mm

plug flat plug

PU packing unit in pieces

weight in gr.

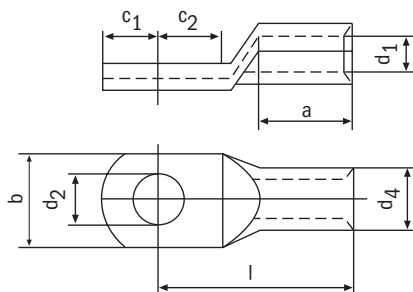
width in mm

Crimp cable lugs DIN 46235

Electrolytic copper tube 99,9 %, bright corroded
* this dimensions are not DIN normed



Art. No.	CS	M	IF	crimps quantity		d1	d2	d4	a	b	c1	c2	l	KG/100 pc.	PU	Dealer	Box
				small	wide												
290001	6	5	5	2		3,8	5,3	5,5	10	8,5	6,5	7,5	24	0,24	100		800
290003		6		2			6,4			8,5	7,5	8		0,3	100		800
290005		8		2			8,4			13	10	10		0,35	100		800
290007	10	5	6	2		4,5	5,3	6	10	9	7	8,5	27	0,37	100		800
290011		6		2			6,4			9	7,5	8,5		0,36	100		800
290013		8		2			8,4			13	10	10		0,38	100		800
290015		10		2			10,5			15	8,2	8,2	28	0,38	100		800
290019	16	6	8	2	1	5,5	6,4	8,5	20	13	7,5	8	36	1,2	50		500
290021		8		2	1		8,4			13	10	10		1,25	50		400
290025		10		2	1		10,5			17	12	12		1,3	50		400
290027		12		2	1		13			18	13	13		1,28	50		400
290031	25	6	10	2	1	7	6,4	10	20	14	7,5	8	38	1,5	50		300
290033		8		2	1		8,4			16	10	10		1,55	50		300
290035		10		2	1		10,5			17	12	12		1,6	50		300
290037		12		2	1		13			19	13	13		1,65	50		300
290039	35	6	12	2	1	8,2	6,4	12,5	20	17	7,5	8	42	2,75	25		150
290042		8		2	1		8,4			17	10	10		2,9	25		150
290044		10		2	1		10,5			19	12	12		2,85	25		150
290049		12		2	1		13			21	13	13		2,8	25		150
290050	50	8	14	3	1	10	8,4	14,5	28	20	10	10	52	4,45	25		100
290051		10		3	1		10,5			22	12	12		4,5	25		100
290052		12		3	1		13			24	13	13		4,4	25		100
290053		16		3	1		17			28	16	16		4,6	25		100
290054	70	8	16	3	1	11,5	8,4	16,5	28	24	10	10	55	6	25		100
290055		10		3	1		10,5			24	12	12		6,05	25		100
290056		12		3	1		13			24	13	13		5,89	25		100
290057		16		3	1		17			30	16	16		6,2	20		80
290058	95	10	18	4	2	13,5	10,5	19	35	28	12	12	65	9	15		60
290059		12		4	2		13			28	13	13		8,6	15		60
290060		16		4	2		17			32	16	16		9	15		60
290061	120	10	20	4	2	15,5	10,5	21	35	32	15	16	70	11,4	20		40
290063		12		4	2		13			32	16	17		11,3	20		40
290064		16		4	2		17			32	18	19		11,25	20		40
290065		20		4	2		21			38	21	22		11	15		30
290066	150	10	22	4	2	17	10,5	23,5	35	34	15	16	78	16,4	15		30
290067		12		4	2		13			34	16	17		16,3	15		30
290068		16		4	2		17			34	19	20		16,2	15		30
290069		20		4	2		21			40	21	22		15,9	12		24
290070	185	10	25	4	2	19	10,5	25,5	40	37	15	16	82	19	12		24
290071		12		4	2		13			37	16	17		18,1	12		24
290072		16		4	2		17			37	19	20		18,75	12		24
290073		20		4	2		21			40	21	22		18,7	10		20
290074	240	12	28	5	2	21,5	13	29	40	42	16	17	92	27	8		16
290075		16		5	2		17			42	19	20		27,4	8		16
290076		20		5	2		21			45	21	22		26,9	8		16
290077	300	16	32		2	24,5	17	32	50	48	19	22	100	33	5		10
290078		20			2		21			48	22	22		33,25	5		10
290079	400	16	38		3	27,5	17	38,5	70	55	25	25	115	68,5	4		8
290080		20			3		21			55	25	25		65,4	4		8
290081	500	20	42		3	31	21	42	70	60	25	25	125	81,6	4		8
290082	625	20	44		3	34,5	21	44	80	60	25	25		79			6
290083	800	20	52		3	40	21	52	100	75	30	30	165	148,6			10
290084	1000	20	58		3	44	21	58	100	85	30	30	165	195			10



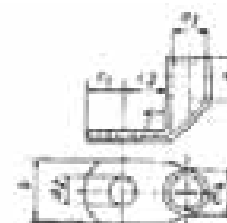
also valid for Article No.
290404 - 290522

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Crimping tubular angle terminals 90° DIN

Electrolytic copper tube acc. to DIN 40500, tinned

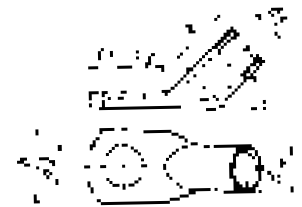


Art. No.	CS	M	IF	crimps quantity		d1	d2	d4	a	b	c1	c2	KG/100 pc.	PU
				small	wide									
291700	6	5	5	2		3,8	5,3	5,5	10	8,5	6,5	9,0	0,300	100
291702		6		2			6,4			8,5	7,5	10,0	0,300	100
291704	10	5	6	2		4,5	5,3	6	10	9,0	7,0	10,0	0,340	100
291706		6		2			6,4			9,0	7,5	10,0	0,350	100
291708		8		2			8,4			13,0	10,0	13,0	0,370	100
291710	16	6	8	2	1	5,5	6,4	8,5	20	13,0	7,5	11,0	1,200	100
291712		8		2	1		8,4			13,0	10,0	13,0	1,300	100
291714		10		2	1		10,5			17,0	12,0	15,0	1,400	100
291716		12		2	1		13,0			18,0	13,0	18,0	1,300	100
291718	25	6	10	2	1	7	6,4	10	20	14,0	7,5	11,0	1,500	100
291720		8		2	1		8,4			16,0	10,0	13,0	1,600	100
291722		10		2	1		10,5			17,0	12,0	15,0	1,600	100
291724		12		2	1		13,0			19,0	13,0	18,0	1,700	100
291726	35	8		2	1	8,2	8,4	12,5	20	17,0	10,0	13,0	2,700	100
291728		10		2	1		10,5			19,0	12,0	15,0	2,800	100
291730		12		2	1		13,0			21,0	13,0	18,0	2,800	100
291732	50	8	14	3	1	10	8,4	14,5	28	20,0	10,0	16,0	4,400	100
291734		10		3	1		10,5			22,0	12,0	16,0	4,500	100
291736		12		3	1		13,0			24,0	13,0	18,0	4,500	100
291738		16		3	1		17,0			28,0	16,0	22,0	4,600	100
291740	70	8	16	3	1	11,5	8,4	16,5	28	24,0	10,0	14,0	6,000	100
291742		10		3	1		10,5			24,0	12,0	16,0	6,300	100
291744		12		3	1		13,0			24,0	13,0	18,0	6,300	100
291746		16		3	1		17,0			30,0	16,0	22,0	6,600	100
291748	95	10	18	4	2	13,5	10,5	19	35	28,0	12,0	17,0	9,000	50
291750		12		4	2		13,0			28,0	13,0	18,0	9,300	50
291752		16		4	2		17,0			32,0	16,0	22,0	9,000	50
291754	120	10	20	4	2	15,5	10,5	21	35	32,0	15,0	17,0	10,400	50
291756		12		4	2		13,0			32,0	16,0	18,0	10,700	50
291758		16		4	2		17,0			32,0	18,0	22,0	10,700	50
291760		20		4	2		21,0			38,0	21,0	24,0	11,000	50
291762	150	10	22	4	2	17	10,5	23,5	35	34,0	15,0	17,0	14,200	50
291764		12		4	2		13,0			34,0	16,0	18,0	14,300	50
291766		16		4	2		17,0			34,0	19,0	22,0	15,200	50
291768		20		4	2		21,0			40,0	21,0	24,0	15,700	50
291770	185	10	25	4	2	19	10,5	25,5	40	37,0	15,0	22,0	18,600	50
291772		12		4	2		13,0			37,0	16,0	22,0	18,700	50
291774		16		4	2		17,0			37,0	19,0	22,0	19,000	50
291776		20		4	2		21,0			40,0	21,0	24,0	18,700	50
291778	240	12	28	5	2	21,5	13,0	29	40	42,0	16,0	22,0	25,100	50
291780		16		5	2		17,0			42,0	19,0	22,0	25,000	50
291782		20		5	2		21,0			45,0	21,0	24,0	25,300	50

Crimping tubular angle terminals 45° DIN

Electrolytic copper tube acc. to DIN 46235, tinned

Art. No.	CS	M	IF	crimps quantity		d1	d2	d4	a	b	c1	c2	KG/100 pc.	PU
				small	wide									
291800	6	5	5	2		3,8	5,5	5,5	10	8,5	6,5	9,0	0,300	100
291802		6		2			6,4			8,5	7,5	10,0	0,300	100
291804	10	5	6	2		4,5	5,3	6	10	9,0	7,0	10,0	0,400	100
291806		6		2			6,4			9,0	7,5	10,0	0,350	100
291808		8		2			8,4			13,0	10,0	13,0	0,400	100
291810	16	6	8	2	1	5,5	6,4	8,5	20	13,0	7,5	11,0	1,200	100
291812		8		2	1		8,4			13,0	10,0	13,0	1,300	100
291814		10		2	1		10,5			17,0	12,0	15,0	1,400	100
291816		12		2	1		13,0			18,0	13,0	18,0	1,300	100
291818	25	6	10	2	1	7	6,4	10	20	14,0	7,5	11,0	1,500	100
291820		8		2	1		8,4			16,0	10,0	13,0	1,600	100
291822		10		2	1		10,5			17,0	12,0	15,0	1,600	100
291824		12		2	1		13,0			19,0	13,0	18,0	1,700	100
291826	35	8		2	1	8,2	8,4	12,5	20	17,0	10,0	13,0	2,700	100
291828		10		2	1		10,5			19,0	12,0	15,0	2,800	100
291830		12		2	1		13,0			21,0	13,0	18,0	2,800	100
291832	50	8	14	3	1	10	8,4	14,5	28	20,0	10,0	16,0	4,400	100
291834		10		3	1		10,5			22,0	12,0	16,0	4,500	100
291836		12		3	1		13,0			24,0	13,0	18,0	4,500	100
291838		16		3	1		17,0			28,0	16,0	22,0	4,600	100
291840	70	8	16	3	1	11,5	8,4	16,5	28	24,0	10,0	14,0	6,000	100
291842		10		3	1		10,5			24,0	12,0	16,0	6,300	100
291844		12		3	1		13,0			24,0	13,0	18,0	6,300	100
291846		16		3	1		17,0			30,0	16,0	22,0	6,600	100
291848	95	10	18	4	2	13,5	10,5	19	35	28,0	12,0	17,0	9,000	50
291850		12		4	2		13,0			28,0	13,0	18,0	9,300	50
291852		16		4	2		17,0			32,0	16,0	22,0	9,000	50
291854	120	10	20	4	2	15,5	10,5	21	35	32,0	15,0	17,0	10,400	50
291856		12		4	2		13,0			32,0	16,0	18,0	10,700	50
291858		16		4	2		17,0			32,0	18,0	22,0	10,700	50
291860		20		4	2		21,0			38,0	21,0	24,0	11,000	50
291862	150	10	22	4	2	17	10,5	23,5	35	34,0	15,0	17,0	14,200	50
291864		12		4	2		13,0			34,0	16,0	18,0	14,300	50
291866		16		4	2		17,0			34,0	19,0	22,0	15,200	50
291868		20		4	2		21,0			40,0	21,0	24,0	15,700	50
291870	185	10	25	4	2	19	10,5	25,5	40	37,0	15,0	22,0	18,600	50
291872		12		4	2		13,0			37,0	16,0	22,0	18,700	50
291874		16		4	2		17,0			37,0	19,0	22,0	19,000	50
291876		20		4	2		21,0			40,0	21,0	24,0	18,700	50
291878	240	12	28	5	2	21,5	13,0	29	40	42,0	16,0	22,0	25,100	50
291880		16		5	2		17,0			42,0	19,0	22,0	25,000	50
291882		20		5	2		21,0			45,0	21,0	24,0	25,300	50



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Connectors DIN 46267 part 1/ Butt connectors

99,9% Electrolytic copper tube acc. to DIN 40500, tinned

Art. No.	CS	IF	crimps quantity		d1	d4	l	KG/100 pc.	PU	Dealer Box
			small	wide						
29 15 21	6	5	2		3,8	5,5	30	0,300	100	1600
29 15 23	10	6	2		4,5	6	30	0,350	100	1000
29 15 25	16	8	2	1	5,5	8,5	50	1,450	50	300
29 15 27	25	10	2	1	7	10	50	1,800	50	300
29 15 29	35	12	2	1	8,2	12,5	50	2,900	50	200
29 15 31	50	14	3	1	10	14,5	56	4,300	25	100
29 15 33	70	16	3	1	11,5	16,5	56	5,400	25	100
29 15 35	95	18	4	2	13,5	19	70	8,600	25	50
29 15 37	120	20	4	2	15,5	21	70	9,700	25	50
29 15 39	150	22	4	2	17	23,5	80	14,500	15	30
29 15 41	185	25	4	2	19	25,5	85	17,000	5	30
29 15 43	240	28	5	2	21,5	29	90	23,400	5	20
29 15 45	300	32	2	2	24,5	32	100	29,250	5	10
29 15 47	400	38		3	27,5	38,5	150	74,300	3	6
29 15 49	500	42		3	31	42	160	89,000		8
29 15 51	625	44		3	34,5	44	160	79,000		6
29 15 53	800	52		3	40	52	200	151,000		6
29 15 55	1000	58		3	44	58	200	198,000		6



Crimp type tubular connectors DIN 46341 part 1, form B/ Butt connectors

99,9% Electrolytic copper tube, tinned

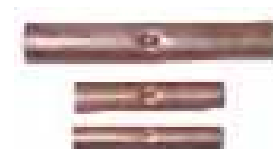
Art. No.	CS	length	weight	PU
29 11 20	1,5 - 2,5	15	100	100
29 11 24	4 - 6	15	190	100
29 11 26	10	21	380	100
29 11 28	16	26	580	100
29 11 30	25	29	1120	100
29 11 32	35	32	1500	100
29 11 34	50	48	2500	100



Connectors DIN 46267 part 1/ Butt connectors

99,9% Electrolytic copper tube acc. DIN 40500, bright

Art. No.	CS	d1	L	IF	weight	PU
29 15 20	6	6	30	5	280	100
29 15 22	10	4,5	30	6	400	100
29 15 24	16	5,5	50	8	1500	100
29 15 26	25	7	50	10	2200	100
29 15 28	35	8,3	50	12	3000	100
29 15 30	50	10	55	14	4300	50
29 15 32	70	11,5	55	16	5560	50
29 15 34	95	13,5	70	18	9060	50
29 15 36	120	15,5	70	20	10600	25
29 15 38	150	17	80	22	15040	25
29 15 40	185	19	85	25	17050	25
29 15 42	240	21,5	90	28	24700	-
29 15 44	300	24,1	100	32	31900	-
29 15 46	400	27,5	150	38	77250	-
29 15 48	500	31	160	42	92700	-
29 15 50	625	35	160	44	94800	-
29 15 52	800	40	200	52	155000	-
29 15 54	1000	44	200	58	196000	-



CS cross section in mm²
IF identification figure
height in mm

length in mm
M bolt M in mm
plug flat plug

PU packing unit in pieces
weight in gr.
width in mm

Connectors DIN 48085, part 1

for guaranteeing tensile strength connections, for overhead lines, 99,9% Electrolytic copper tube acc. DIN 48085, part 1, bright

Art. No.	CS	Ø	d1	d2	L	Pr. mech.	Pr. hy.	IF	weight	PU
29 14 40	6	3	3,5	6,5	65	4/4		6	135	100
29 14 42	10	4,05	4,5	8,5	80	5/5		8	300	100
29 14 44	16	5,1	5,5	8,5	80	5/5		8	280	100
29 14 46	25	6,3	7	10	80	5/5		10	340	100
29 14 48	35	7,5	8,5	12,5	95	5/5		12	560	100
29 14 50	50	9	10	14,5	95	5/5		14	850	100
29 14 52	70	10,5	11,5	16,5	95	5/5		16	1080	100
29 14 54	95	12,5	13,5	21	145	8/8	4/4	20	2620	50
29 14 56	120	14	15	23,5	160	8/8	4/4	22	3640	50
29 14 58	150	15,7	16,5	25,5	180	8/8	4/4	25	4750	50
29 14 60	185	17,5	18,5	31,5	260		5/5	32	11800	50
29 14 62	240	20,2	21	34,5	310		6/6	34	16300	50
29 14 64	300	22,5	23,5	38,5	360		7/7	38	23500	50



T-connectors

99,9% Electrolytic copper tube acc. to DIN 40500, tinned galvanised

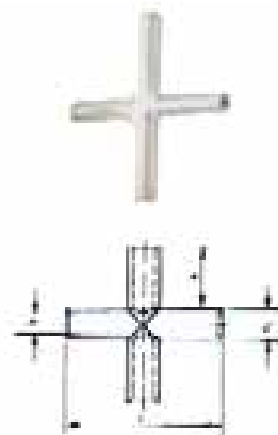
Art. No.	CS	d1	d4	L	L1	weight	PU
29 13 30	1,5	1,9	3,9	30	12	230	100
29 13 32	2,5	2,4	4,4	30	12	370	100
29 13 34	4	3	5	30	12	480	100
29 13 36	6	3,7	5,5	35	14	700	25
29 13 38	10	4,3	6,7	35	14	1000	25
29 13 40	16	5,4	7,8	50	21	2200	25
29 13 42	25	6,9	9,4	55	23	2950	25
29 13 44	35	8,3	11,3	70	30	5200	25
29 13 48	50	9,6	13,1	80	34	7900	25
29 13 50	70	11,5	15,3	85	35	11200	25
29 13 52	95	13,5	17,5	90	36	13000	25
29 13 54	120	15,5	20	95	38	14500	10
29 13 56	150	16,8	21,3	110	44	18900	10
29 13 58	185	19	24	115	45	25000	10
29 13 60	240	21	26	130	52	31100	10



X-connectors

99,9% Electrolytic copper tube acc. to DIN 40500, tinned galvanised

Art. No.	CS	d1	d2	L	L1	weight	PU
29 13 70	1,5	1,9	3,9	30	12	230	100
29 13 72	2,5	2,4	4,4	30	12	370	100
29 13 74	4	3	5	30	12	480	100
29 13 76	6	3,7	5,5	35	14	700	25
29 13 78	10	4,3	6,7	35	14	1000	25
29 13 80	16	5,4	7,8	50	21	2200	25
29 13 82	25	6,9	9,4	55	23	2950	25
29 13 84	35	8,3	11,3	70	30	5200	25
29 13 86	50	9,6	13,1	80	34	7900	25
29 13 88	70	11,5	15,3	85	35	11200	25
29 13 90	95	13,5	17,5	90	36	13000	25
29 13 92	120	15,5	20	95	38	14500	10
29 13 94	150	16,8	21,3	110	44	18900	10
29 13 96	185	19	24	115	45	25000	10
29 13 98	240	21	26	130	52	31100	10



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Terminals, type ring, clean nickel**Nickel**permanence of temperature **500° C**

Art. No.	CS	M	d1	d2	b	l	a	weight	PU
29 25 60	0,5 - 1	4	1,6	4,3	6,5	13	6	80	100
29 25 62		5	1,6	5,3	7,5	14	6	80	100
29 25 64	1,5 - 2,5	4	2,3	4,3	7	13	6	105	100
29 25 66		5	2,3	5,3	8,5	14	6	105	100
29 25 68		6	2,3	6,5	9,5	16	6	130	100
29 25 70	4,0 - 6,0	4	3,6	4,3	8,5	18	8	275	100
29 25 72		5	3,6	5,3	9,5	19	8	275	100
29 25 74		6	3,6	6,5	9,5	19	8	270	100

**Terminals, type fork, clean nickel****Nickel**permanence of temperature **500° C**

Art. No.	CS	M	d1	d2	b	l	a	weight	PU
29 25 80	0,5 - 1	4	1,6	4,3	6,5	13	6	80	100
29 25 82		5	1,6	5,3	7,5	14	6	80	100
29 25 84	1,5 - 2,5	4	2,3	4,3	7	13	6	105	100
29 25 86		5	2,3	5,3	8,5	14	6	105	100
29 25 88		6	2,3	6,5	9,5	16	6	130	100
29 25 90	4,0 - 6,0	4	3,6	4,3	8,5	18	8	275	100
29 25 92		5	3,6	5,3	9,5	19	8	275	100
29 25 94		6	3,6	6,5	9,5	19	8	270	100

**Butt space connectors, clean nickel****Nickel**permanence of temperature **500° C**

Art. No.	CS	d1	L	weight	PU
29 25 96	0,5 - 1	1,6	15	115	100
29 25 98	1,5 - 2,5	2,3	15	150	100
29 26 00	4 - 6	3,6	15	280	100



Al-crimping terminals DIN 46329

Aluminium

for Al conductor to DIN 48201, hexagon crimping
aluminium 99,5%, production process: extruded, embossed, surface bright

Art. No.	CS mm ²		FL	E	L	A	D Ø	IF	crimps quantity		kg/100 pc.
	RM/SM	SE							small	wide	
29 27 70	35	50	10	10,5	62		8	14	5	3	2,25
29 27 72	35	50	12	13	62		8	14	5	3	2,20
29 27 74	50	70	10	10,5	62		9,8	16	5	3	2,70
29 27 76	50	70	12	13	62		9,8	16	5	3	2,60
29 27 78	70	95	10	10,5	72		11,2	18	6	3	4,10
29 27 80	70	95	12	13	72		11,2	18	6	3	4,00
29 27 82	95	120	10	10,5	75		13,2	22	6	3	6,70
29 27 84	95	120	12	13	75		13,2	22	6	3	6,50
29 27 86	120	150	12	13	80	30	14,7	22	6	3	6,40
29 27 88	120	150	16	17	80	30	14,7	22	6	3	6,30
29 27 90	150	185	10	10,5	90	30	16,3	25	7	3	8,00
29 27 92	150	185	12	13	90	30	16,3	25	7	3	7,80
29 27 94	150	185	16	17	90	30	16,3	25	7	3	7,70
29 27 96	185	240	10	10,5	91	30	18,3	28	7	3	11,30
29 27 98	185	240	12	13	91	30	18,3	28	7	3	10,60
29 28 00	185	240	16	17	91	30	18,3	28	7	3	9,80
29 28 02	240	300	12	13	103	38	21	32	8	3	16,20
29 28 04	240	300	16	17	103	38	21	32	8	3	15,50
29 28 06	240	300	20	21	103	38	21	32	8	3	14,70
29 28 08	300	-	12	13	103	38	23,3	34	8	3	18,00
29 28 10	300	-	16	17	103	38	23,3	34	8	3	17,60
29 28 12	300	-	20	21	103	38	23,3	34	8	3	17,30
29 28 14	400	-	12	13	116	38	26	38	-	4	40,80
29 28 16	400	-	16	17	116	38	26	38	-	4	40,40
29 28 18	400	-	20	21	116	38	26	38	-	4	40,00
29 28 20	500	-	12	13	122	44	29	44	-	4	43,60
29 28 22	500	-	16	17	155	44	29	44	-	4	43,20



Al-crimping terminals DIN 46341, part 2

Aluminium

for exonerated connections DIN 48201, page 5, aluminium 99,5%, bright

Art. No.	CS mm ²		D	L	crimps quantity		weight	PU
	RM/SM	SE			small	wide		
29 35 42	25	35	6,8	70	4/4	2/2	1500	100
29 35 44	35	50	8	85	5/5	2/2	2250	100
29 35 46	50	70	9,8	85	5/5	2/2	2950	50
29 35 48	70	95	11,2	105	6/6	3/3	5000	50
29 35 50	95	120	13,2	105	6/6	3/3	8200	25
29 35 52	120	150	14,7	105	6/6	3/3	8700	25
29 35 54	150	185	16,3	125	6/6	3/3	11800	25
29 35 56	185	240	18,3	125	6/6	3/3	13100	20
29 35 58	240	300	20,0	145	8/8	3/3	20600	15



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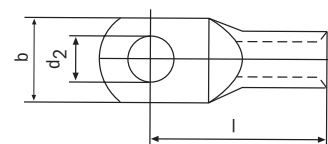
Al-terminals DIN

Aluminium

for Al conductor to DIN 48201, hexagon crimping

Al 99,5 %, production process: extruded, embossed. surface bright

Art.-Nr.	CS (mm²)	M	IF	crimps quantity		d1	d2	b	l	KG/100 pc.
				small	wide					
292904	16	8	12	4	2	5,8	8,5	18,0	52	1,400
292906		10					10,5	18,0		1,400
292908	25	8	12	4	2	6,8	8,5	18,0	60	1,400
292910		10					10,5	18,0		1,500
292912	35	10	14	5	2	8	10,5	21,0	67	2,100
292914		12					13,0	21,0		2,100
292916	50	10	16	5	2	9,8	10,5	25,0	72	2,700
292918		12					13,0	25,0		2,750
292920	70	10	18	6	3	11,2	10,5	28,0	86	4,400
292922		12					13,0	28,0		4,300
292924	95	10	22	6	3	13,2	10,5	32,0	90	7,400
292926		12					13,0	32,0		7,500
292928		16					17,0	34,0		7,300
292930	120	12	22	6	3	14,7	13,0	32,0	91	6,700
292932		16					17,0	34,0		6,400
292934	150	12	25	6	3	16,3	13,0	35,0	103	9,600
292936		16					17,0	35,0		9,200
292938		20					21,0	41,0		9,400
292940	185	12	28	6	3	18,3	13,0	40,0	106	12,600
292942		16					17,0	40,0		12,000
292944		20					21,0	40,0		13,100
292946	240	12	32	8	3	21	13,0	45,0	116	18,300
292948		16					17,0	45,0		17,600
292950		20					21,0	45,0		17,300



Al- and Cu- crimping terminals

Aluminium
Copper

for strain-relieved connections of Al and Cu conductors, for Al ropes acc. DIN 48201,
Al 99,5% DIN 40501, E-Cu DIN 40500, surface bright

Art. No.	Al		Cu		IF Cu	IF Al	L	weight	PU	
	RM/SM	SE	RM/SM	Al						Cu
29 35 70	25	35	10	6,8	4,5	12	6	55	1400	10
29 35 72	25	35	16	6,8	5,5	12	8	61	1650	10
29 35 74	25	35	25	6,8	7,0	12	10	61	1900	10
29 35 76	25	35	50	6,8	10,0	12	12	72	3500	10
29 35 78	25/4	35re	16	7,6	5,5	12	8	61	1600	10
29 35 80	25/4	35re	25	7,6	7,0	12	10	61	1850	10
29 35 82	35	50	16	8	5,5	14	8	71	2500	10
29 35 84	35	50	25	8	7,0	14	10	71	2650	10
29 35 86	35	50	35	8	8,2	14	12	71	3300	10
29 35 88	35	50	50	8	10	14	14	80	3530	10
29 35 90	35/6	50re	16	9	5,5	14	8	71	2450	10
29 35 92	35/6	50re	25	9	7,0	14	10	71	2600	10
29 35 94	35/6	50re	35	9	8,2	14	12	71	3250	10
29 35 96	50	70	16	9,8	5,5	16	8	71,5	2850	10
29 35 98	50	70	25	9,8	7,0	16	10	71,5	3200	10
29 36 00	50	70	35	9,8	8,2	16	12	71,5	3800	10
29 36 02	50	70	50	9,8	10	16	14	77,5	4550	10
29 36 04	70	95	16	11,2	5,5	18	8	79	4100	10
29 36 06	70	95	25	11,2	7,0	18	10	79	3950	10
29 36 08	70	95	35	11,2	8,2	18	12	79	4900	10
29 36 10	70	95	50	11,2	10	18	14	85	5700	10
29 36 12	70	95	70	11,2	11,5	18	16	86	7250	10
29 36 14	70	95	95	11,2	13,5	18	18	95	9360	10
29 36 16	70	95	120	11,2	15,5	18	20	99	10540	10
29 36 18	95	120	16	13,2	5,5	22	8	79	6150	10
29 36 20	95	120	25	13,2	7,0	22	10	79	6300	10
29 36 22	95	120	35	13,2	8,2	22	12	79	6800	10
29 36 24	95	120	50	13,2	10	22	14	85	8050	10
29 36 26	95	120	70	13,2	11,5	22	16	87	8200	10
29 36 28	95	120	95	13,2	13,5	22	18	95	10350	10
29 36 30	95	120	120	13,2	15,5	22	20	95	11550	10
29 36 32	120	150	35	14,7	8,2	22	12	81	7600	10
29 36 34	120	150	50	14,7	10	22	14	87	7900	10
29 36 36	120	150	70	14,7	11,5	22	16	89	8500	10
29 36 38	120	150	95	14,7	13,5	22	18	97	11000	10
29 36 40	120	150	120	14,7	15,5	22	20	97	11900	10
29 36 42	150	185	16	16,3	5,5	25	8	91,5	7800	10
29 36 44	150	185	25	16,3	7,0	25	10	91,5	8000	10
29 36 46	150	185	35	16,3	8,2	25	12	91,5	8400	10
29 36 48	150	185	50	16,3	10	25	14	98,5	10200	10
29 36 50	150	185	70	16,3	11,5	25	16	99,5	10350	10
29 36 52	150	185	95	16,3	13,5	25	18	107,5	12650	10
29 36 54	150	185	120	16,3	15,5	25	20	107,5	13900	10
29 36 56	150	185	150	16,3	17,5	25	22	112,5	16700	10
29 36 58	185	240	50	18,3	10	28	24	99	12100	10
29 36 60	185	240	70	18,3	11,5	28	26	100	13000	10
29 36 62	185	240	95	18,3	13,5	28	28	108	14450	10
29 36 66	185	240	150	18,3	17	28	22	113	19550	10
29 36 68	185	240	185	18,3	19	28	25	116	21000	10
29 36 70	240	300	50	21,0	10	32	14	110	16500	10
29 36 72	240	300	70	21,0	11,5	32	16	111	18600	10
29 36 74	240	300	95	21,0	13,5	32	18	119	19000	10
29 36 76	240	300	120	21,0	15,5	32	20	119	20500	10
29 36 78	240	300	150	21,0	17	32	22	124	23300	10
29 36 80	240	300	185	21,0	19	32	25	127	25500	10
29 36 82	240	300	240	21,0	21,5	32	28	128	30100	10
29 36 84	300	-	120	23,3	15,5	34	20	119	27800	10
29 36 86	300	-	150	23,3	17	34	22	124	31100	10
29 36 88	300	-	185	23,3	19	34	25	128	32700	10
29 36 90	300	-	240	23,3	21,5	34	28	128	37500	10
29 36 92	300	-	300	23,3	24,5	34	32	134	47000	10



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Al- and Cu- crimping terminals

Aluminium
Copper

for Al acc. DIN 48201, hexagon crimping;

Al 99,5%, DIN 40501, E-Cu DIN 40500, surface bright

Art. No.	CS mm ²							crimps quantity			PU
	RM/SM	SE	M	D	E	A	L	small	wide	weight	
29 39 10	16	25	8	6,8	8,5	22	60,5	4	2	2000	100
29 39 12	25	35	10	6,8	10,5	25	60,5	4	2	2100	100
29 39 14	35	50	10	8	10,5	26	67	5	3	3100	100
29 39 16		50	12	8	13	30	67	5	3	3100	100
29 39 18	50	70	10	10	10,5	27	70,5	5	3	3600	50
29 39 20		70	12	10	13	30	70,5	5	3	3800	50
29 39 22	70	95	10	11,5	10,5	29	81	6	3	5600	50
29 39 24		95	12	11,5	13	32	81	6	3	5700	50
29 39 28	95	120	12	13,5	13	35	93,5	6	3	9500	25
29 39 30		120	16	13,5	17	38	93,5	6	3	10000	25
29 39 32	120	150	12	15	13	35	91	6	3	8700	25
29 39 34		150	16	15	17	38	91	6	3	8800	25
29 39 36	150	185	12	16,5	13	35	108,5	6	3	12200	25
29 39 38		185	16	16,5	17	41	108,5	6	3	12300	25
29 39 40		185	20	16,5	21	44	108,5	6	3	12800	25
29 39 42	185	240	12	18,5	13	40	104	7	3	15000	20
29 39 44		240	16	18,5	17	42	106	7	3	15500	20
29 39 46		240	20	18,5	21	46	104	7	3	15500	20
29 39 48	240	300	12	21,5	13	45	115	7	3	20000	15
29 39 50		300	16	21,5	17	45	115	7	3	21000	15
29 39 52		300	20	21,5	21	49	115	7	3	22000	15
29 39 54	300		16	24,5	17	51	121	7	3	34000	10
29 39 56			20	24,5	21	51	121	7	3	35000	10

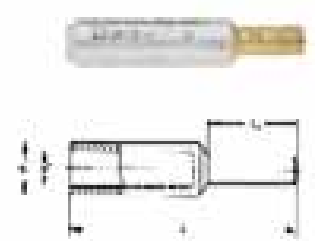


Al-crimping terminals with Cu-bolts

Aluminium
Copper

Al 99,5%, DIN 40501, E-Cu DIN 40500, surface bright

CS mm²										
Art. No.	RM/SM	SE	Ø Bo	Ø Se	d Ø	d1 Ø	L1	L	weight	PU
29 39 60	25	35	6	6,3	12	6,8	20	58	1600	10
29 39 62	35	50	7	7,5	14	8	22	71	2500	10
29 39 64	50	70	8	9	16	10	25	74	3300	10
29 39 66	70	95	10	10,5	18,5	11,5	30	87	5400	10
29 39 68	95	120	12	12,5	23	13,5	33	91	8700	10
29 39 70	120	150	12	14	23	15	38	97	9000	10
29 39 72	150	185	12	15,8	25,5	16,5	38	108	10900	10
29 39 74	185	240	14	17,5	28,5	18,5	44	116	15700	10
29 39 76	240	300	16	20,3	32,5	21,5	44	128	21800	10
29 39 78	300	-	18	22,5	34,5	23,5	46	131	26700	10



Al- and Cu- crimping terminals

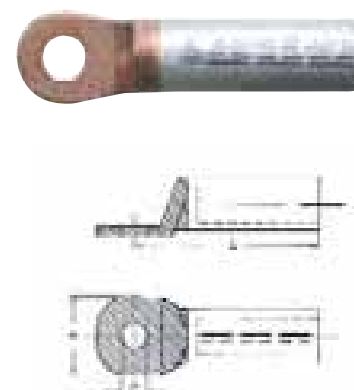
Aluminium
Copper

for Al conductor to DIN 48201, hexagon crimping.

Al 99,5 %, DIN 40501, E-Cu DIN 40500, surface bright.

Solid conductors have to be crimped with mechanical handplier only. Sector conductors have to be rounded first.

Art. No.	CS mm ²							crimps quantity			kg/100 pc.
	RM/SM	SE	FL	E	L	A	D Ø	IF	small	wide	
29 33 00	25	-	8	8,4	61	23	6,8	12	4	2	3,20
29 33 02		-	10	10,5	61	23	6,8	12	4	2	3,10
29 33 04		-	12	13	61	23	6,8	12	4	2	3,00
29 33 06	35	50	10	10,5	71	23	8	14	5	3	3,80
29 33 08		50	12	13	71	23	8	14	5	3	3,60
29 33 10	50	70	10	10,5	72	23	9,8	16	5	3	4,30
29 33 12		70	12	13	72	23	9,8	16	5	3	4,10
29 33 14	70	95	10	10,5	82	26	11,2	18	6	3	5,30
29 33 16		95	12	13	82	26	11,2	18	6	3	5,10
29 33 18	95	120	12	13	85	30	13,2	22	6	3	9,90
29 33 20		120	16	17	85	30	13,2	22	6	3	10,50
29 33 22	120	150	12	13	87	30	14,7	22	6	3	10,60
29 33 24		150	16	17	87	30	14,7	22	6	3	10,00
29 33 26	150	185	12	13	104	36	16,3	25	7	3	16,20
29 33 28		185	16	17	104	36	16,3	25	7	3	15,70
29 33 30	185	240	12	13	105	36	18,3	28	7	3	21,80
29 33 32		240	16	17	105	36	18,3	28	7	3	21,40
29 33 34	240	300	12	13	120	36	21	32	8	3	29,80
29 33 36		300	16	17	120	36	21	32	8	3	29,80

CS cross section in mm²
IF identification figure
height in mmlength in mm
M bolt M in mm
plug flat plugPU packing unit in pieces
weight in gr.
width in mm

Consumable items

Pliers for Insulated terminals

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,25 - 2,5	21 08 45			24
0,25 - 6,0	21 08 02			24
	21 07 61			24
0,5 - 0,6	21 08 08			24
	21 08 14			24
10,0 - 16	21 08 27			24
		21 50 00		34
10,0 - 35		21 51 00		36

Pliers for end sleeves, tinned and insulated

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,08 - 6	21 08 00			23
0,08 - 6/10	21 08 19			23
0,14 - 2,5	21 16 50			22
0,14 - 6	21 09 79			23
0,25 - 6	21 08 41			22
0,5 - 4	21 07 63			22
0,5 - 10	21 09 79 A			23
0,75 - 10	21 08 04			23
4,0 - 10	21 08 42			22
6,0 - 16	21 07 65			22
	21 16 52			22
10,0 - 16	21 09 79 B			23
6,0 - 35		21 50 00		34
6,0 - 95		21 51 00		36
10,0 - 25	21 16 72			22
10,0 - 35	21 07 68			22
10,0 - 50	21 07 88			23
10,0 - 95		21 08 56		32
16,0 - 95			21 58 00	46
16,0 - 185		21 52 00		38
25,0 - 50	21 16 74			22
50,0 - 95	21 07 89			23
50,0 - 150			21 66 00	48
			21 65 00	50

Pliers for uninsulated terminals

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,1 - 10	21 08 10			25
0,5 - 16	21 07 99			25
0,75 - 2,5	21 07 78			25
0,75 - 6	21 08 06			25
	21 08 08			24
1,25 - 6	21 07 79			25
1,0 - 16	21 07 72			25
	21 07 74			25
1,5 - 10	21 07 64			25

Pliers for brass sleeves

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,1 - 1	21 16 66			26
0,14 - 1	21 08 23			26
	21 08 33			26
0,14 - 1,5	21 16 68			26
0,25 - 6	21 07 62			26
0,5 - 1	21 07 85			26
0,5 - 1,5	21 07 77			26
0,5 - 2,5	21 16 82			26
	21 16 64			26
1,5 - 2,5	21 07 86			26

Consumable items

Pliers for coaxial connectors

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
RG 58-59-62	21 07 67			27
RG 58-59-62-71	21 08 49			27
RG 55-58-59-62	21 16 80			27

Pliers for modular Plugs

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
4-polig	21 09 71			28
4-polig	21 08 67			28
6-polig	21 09 73			28
6-polig	21 08 65			28
8-polig	21 09 81			28
8-polig	21 08 69			28
8-polig	21 30 51			29
8-polig	21 30 52			29
8-polig	21 30 54			29
6 und 8-polig	21 08 57			28
4 bis 8-polig	21 08 71			28
	21 30 50			28
4 bis 10-polig	21 30 00			28
	21 30 20			29
	21 30 70			29

Pliers for tube terminals

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,75 - 16	21 08 30			31
6,0 - 50	21 08 05			31
	21 08 05/K (DIN)			31
		21 50 00		34
	21 08 34			31
6,0 - 120		21 51 00		36
6,0 - 185	21 08 56			32
10 - 120	21 07 91			31
	21 08 50			31
	21 08 53 DIN			31
10 - 240	21 52 00			38
			21 55 86	44
			21 57 55	44
			21 57 60	44
			21 58 00	46
10 - 300			21 60 04	48
			21 61 24	48
			21 66 00	48
			21 65 00	50
			21 59 46	50
			21 59 80	50
			21 66 60	46
16 - 300				40
10 - 400		21 53 00		40
50 - 120	21 08 36			31
95 - 630			21 62 36	52
			21 62 50	52
120 - 240	21 08 38			31
120 - 1000			21 63 02	53
185 - 400	21 08 40			31



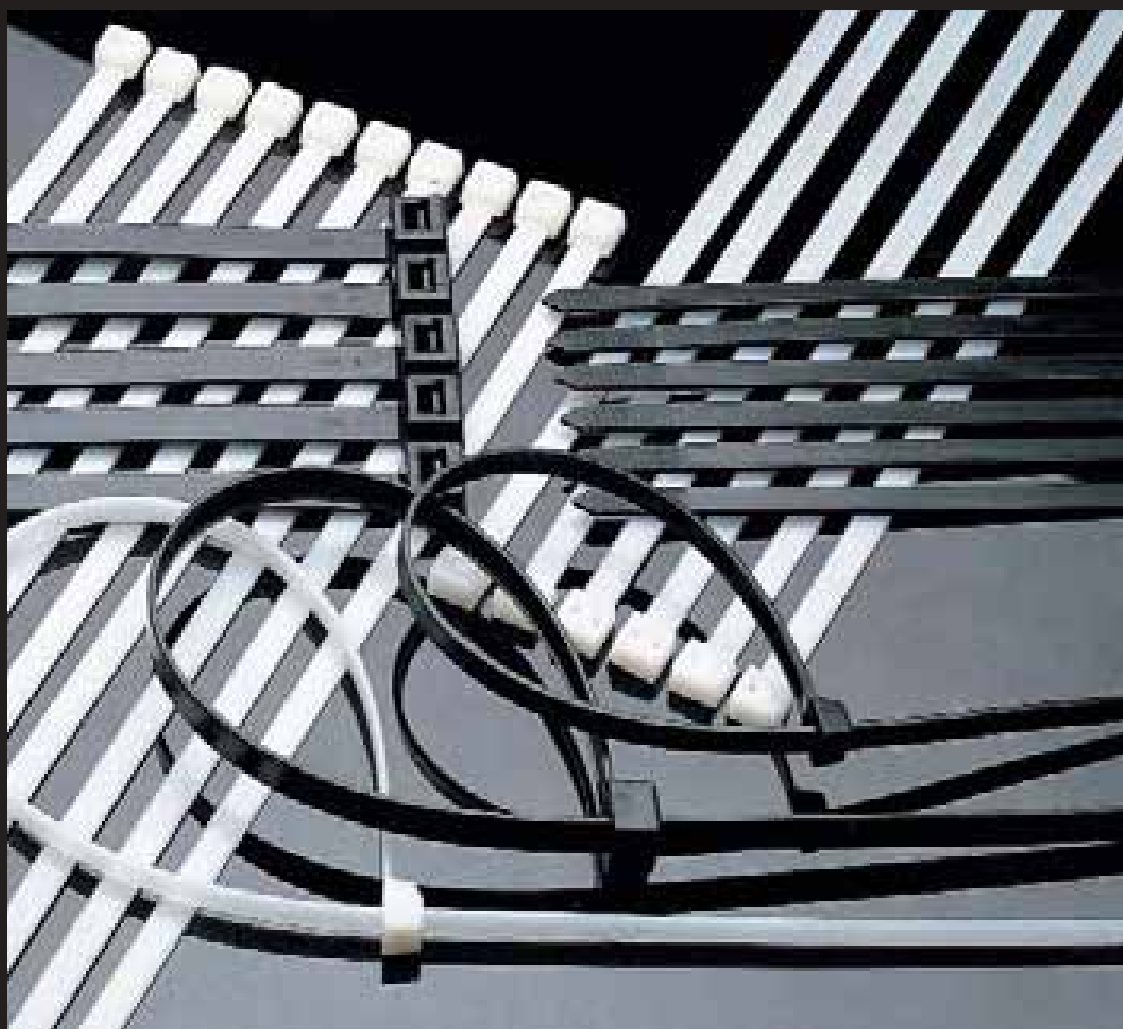
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Consumable items

Cable ties
Tensioning tools
Heat shrinkable tubes



Cable ties

material: nylo, colour natural, quick and simple to fix by hand or with tensioning tools, extremely resistant to sea water, oil, grease, etc., manufactured in accordance with UL and MIL specification requirements, - 40° C bis 85° C



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 25 00	96	2,5	23	8	290	100/	30000
26 25 02	100	2,5	25	8	310	100/	25000
26 25 04	142	2,5	35	8	480	100/	25000
26 25 06	203	2,5	55	8	700	100/	13000
26 25 08	142	3,2	35	18	480	100/	10000
26 25 10	292	3,6	85	18	750	100/	7000
26 25 12	190	4,8	52	22	100	100/	8000
26 25 16	203	4,6	55	22	150	100/	7000
26 25 18	250	4,8	74	22	200	100/	6000
26 25 20	310	4,8	89	22	200	100/	5000
26 25 22	368	4,8	102	22	250	100/	4000
26 25 28	203	7,6	55	55	300	100/	2000
26 25 30	280	7,6	78	55	400	100/	2000
26 25 32	380	7,6	110	55	500	100/	2500
26 25 36	450	8,0	133	80	350	50/	500
26 25 38	610	9,0	185	80	500	50/	500
26 25 40	812	9,0	246	80	300	20/	500
26 25 42	914	9,0	270	80	800	50/	500
26 25 46	550	12,7	166	114	1000	50/	500

Cable ties

material: polyamide 6,6 - colour natural, resistant to mildew and rotting, extremely resistant to sea water, oil, grease, hydrocarbons and hydraulic fluids, operating temperature: -40° to +85° C, these binders meet the requirements of the military specification Mil-Spec. 23 190C (WEP) MS-3367, UL 94 V2



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 21 00	100	2,5	25	8	310	100/	25000
26 21 02	142	3,2	35	18	100	100/	10000
26 21 01	203	3,6	55	18	50	100/	10000
26 21 06	203	4,6	55	22	150	100/	7000
26 21 08	310	4,8	89	22	250	100/	5000
26 21 10	368	4,8	102	22	250	100/	4000
26 21 14	380	7,6	110	55	290	50/	2000
26 21 16	550	12,7	166	114	1000	50/	500

Cable ties

material: polyamide 6,6 - colour black, all other data and properties like No. 26 21 00-16, resistant to sea water, oil, grease, etc., not UV-resistant



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 21 20	100	2,5	25	8	300	100/	25000
26 21 22	142	3,2	35	18	300	100/	10000
26 21 24	203	3,6	55	18	100	100/	10000
26 21 26	203	4,6	55	22	170	100/	6000
26 21 28	310	4,8	89	22	250	100/	5000
26 21 30	368	4,8	102	22	400	100/	4000
26 21 32	280	7,6	78	55	400	100/	2000
26 21 34	380	7,6	110	55	250	50/	2000
26 21 36	550	12,7	166	114	750	50/	500

Ct max. cable tie max in mm
height in mm
length in mm

PU packing unit in pieces
SR shrinking range in mm
th thickness of wall after shrinking mm

TS tensile strength
tot. length total length in mm
weight in gr.

width in mm
wot width of tape in mm

Cable ties

material: nylon - colour black, all other data and properties like No. 26 25 00-46, weather- and UV-resistant



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 26 00	96	2,5	23	8	290	100/	30000
26 26 02	100	2,5	25	8	310	100/	25000
26 26 04	142	2,5	35	8	480	100/	20000
26 26 06	203	2,5	55	8	670	100/	10000
26 26 08	142	3,2	35	18	720	100/	10000
26 26 10	292	3,6	85	18	150	100/	7000
26 26 16	203	4,6	52	22	150	100/	6000
26 26 18	250	4,8	74	22	150	100/	6000
26 26 20	310	4,8	89	22	200	100/	5000
26 26 22	368	4,8	102	22	250	100/	4000
26 26 28	203	7,6	55	55	300	100/	2000
26 26 30	280	7,6	78	55	400	100/	2000
26 26 32	380	7,6	110	55	500	100/	2500
26 26 36	450	8,0	133	80	350	50/	500
26 26 38	610	9,0	185	80	500	50/	500
26 26 40	812	9,0	246	80	300	20/	500
26 26 42	914	9,0	270	80	800	50/	500
26 26 46	550	12,7	166	114	1000	50/	500

Cable ties

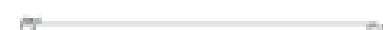
material: nylon - colour natural, all other data and properties like No. 26 25 00-46, big packing unit 1000 pcs.



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 25 01	96	2,5	23	8	290	1000/	30000
26 25 03	100	2,5	25	8	310	1000/	25000
26 25 05	142	2,5	35	8	480	1000/	10000
26 25 07	203	2,5	55	8	300	1000/	10000
26 25 09	142	3,2	35	18	650	1000/	10000
26 25 11	292	3,6	85	18	800	1000/	8000
26 25 17	203	4,6	55	22	1400	1000/	10000
26 25 13	190	4,8	50	22	1450	1000/	8000

Cable ties

material: nylon - colour black, all other data and properties like No. 26 26 00-46, big packing unit 1000 pcs.



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 26 01	96	2,5	23	8	300	1000/	30000
26 26 09	142	3,2	35	18	700	1000/	10000

Releasable cable ties

for temporary wiring and sub-assembly

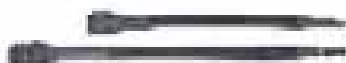
material: polyamide 6,6 - colour black, operation temperature: -40° to +85° C



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 21 40	150	7,6	35	22	150	100/	5000
26 21 42	200	7,6	50	22	200	100/	5000
26 21 44	300	7,6	80	22	350	100/	5000

Double-locking-cable ties

material: nylon - colour black, (26 27 10 Nylon 12)



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 27 00	180	9,0	45	55	8	100/	500
26 27 02	300	9,0	88	55	100	100/	500
26 27 04	360	9,0	100	55	100	100/	500
26 27 10	300	9,0	88	55	100	100/	500

Tensioning tools for Cable ties

The built-in knife will cut only, when the requested tension has been reached. Cutting via simple twist action of the tool. material: plastic



Art. No.	width	weight	PU
26 21 51	2,5 - 5,0 mm	250	1

Tensioning tools for Cable ties

The built-in knife will cut only, when the requested tension has been reached. material: metal



Art. No.	width	weight	PU
26 21 52	2,5 - 5,0 mm	300	1

Tensioning tools for Cable ties

Prevents overstretching and constriction by continuously adjustable stress limitation. The built-in knife will cut only, when the requested tension has been reached. material: metal



Art. No.	width	weight	PU
26 21 54	2,5 - 13,0 mm	320	1

Tensioning tools for Cable ties

Prevents overstretching and constriction by continuously adjustable stress limitation. The built-in knife will cut only, when the requested tension has been reached. material: metal



Art. No.	width	weight	PU
26 21 58	2,5 - 10,0 mm	300	1

Self adhesive sockets

for cable ties and a quick and reliable fastening of line or cable bundles and other objects



Art. No.	mm	width	colour	weight	PU	PU
26 21 60	19 x 19	to 3,6 mm	natural	780	100/	1000
26 21 61	19 x 19	to 3,6 mm	black	800	100/	1000
26 21 62	28 x 28	to 4,8 mm	natural	850	100/	500
26 21 63	28 x 28	to 4,8 mm	black	900	100/	500

Screw type sockets

for cable ties and a quick and reliable fastening of large diam. cable bundles and other objects, not UV-resistant



Art. No.	mm	width	colour	weight	PU	PU
26 21 64	1,5 x 1,0	to 7,8 mm	natural	150	100/	10000
26 21 65	1,5 x 1,0	to 7,8 mm	black	150	100/	10000

Dowel Mounting sockets/Christmas trees

for cable ties up to a width of 9 mm, 2 types with different wall-distances, available wall-fixing avoid the friction of the cable on the wall, black colour



Art. No.	A	B	C	D	weight	PU	PU
26 21 70	10	37	6,5	9,2	150	100/	5000
26 21 72	10	37	13	9,2	150	100/	4000

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Heat shrinkable tubes

of polyolefin, radiation interlaced, self extinguished according to MV SS 302, thin and flexible, dielectric strength 15 - 25 KV/mm acc. to DIN 53481, operating temperature: - 55° C to 135° C, shrinking temperature: > 115° C, **1 meter** length in self-service-pack



Art. No.	SR to	SR from	th. wall	weight	PU
26 20 85	4,8	2,4	0,50	300	10
26 20 86	6,4	3,2	0,60	300	10
26 20 87	9,5	4,8	0,60	350	10
26 20 88	12,7	6,4	0,60	400	10
26 20 89	19,0	9,5	0,80	600	10
26 20 90	25,4	12,7	0,90	750	10

Heat shrinkable tubes

of polyolefin, self extinguished according to MV SS 302, thin and flexible universal using, dielectric strength 15 - 25 KV/mm DIN 53481, operating temperature: - 55° C to 135° C, shrinking temperature: > 115° C, in **5 meter** length, in self-service-pack



Art. No.	SR to	SR from	th. wall	weight	PU
26 20 95	19,0	9,5	0,80	300	1
26 20 96	25,4	12,7	0,90	300	1

Heat shrinkable tubes

of polyolefin, self extinguished according to MV SS 302, thin and flexible universal using, dielectric strength 15 - 25 KV/mm DIN 53481, operating temperature: - 55° C to 135° C, shrinking temperature: > 115° C, in **10 m role**



Art. No.	SR to	SR from	th. wall	weight	PU
26 20 73	1,2	0,6	0,40	1100	1
26 20 74	1,6	0,8	0,50	2200	1
26 20 75	2,4	1,2	0,50	3000	1
26 20 76	3,2	1,6	0,50	3000	1
26 20 91	4,8	2,4	0,50	3000	1
26 20 92	6,4	3,2	0,60	3000	1
26 20 93	9,5	4,8	0,60	3000	1
26 20 94	12,7	6,4	0,60	3000	1

Heat shrinkable tubes

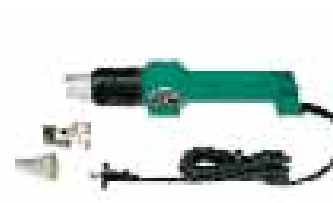
of polyolefin, self extinguished according to MV SS 302, thin and flexible universal using, dielectric strength 15 - 25 KV/mm DIN 53481, operating temperature: - 55° C to 135° C, shrinking temperature: > 115° C, in **75 m role**



Art. No.	SR to	SR from	th. wall	weight	PU
26 20 93/75	9,5	4,8	0,70	1100	1

Hot air gun

Type Profi HL 2000 P, for shrinkable tubes



Art. No.	weight	PU
26 20 97	850	1

Polyethene spiral binding

natural, non-flame resistant



Art. No.	Ø length m	KB	weight	PU
26 20 60	1,5 30	1,5 - 18	250	1
26 20 62	4 30	4 - 50	550	1
26 20 64	9 30	9 - 65	2350	1

Polyethene spiral binding

white, flame resistant



Art. No.	Ø length m	KB	weight	PU
26 20 66	1,5 30	1,5 - 18	400	1
26 20 68	4 30	4 - 50	800	1
26 20 69	9 30	9 - 65	1950	1

Ct max. cable tree max in mm
height in mm
length in mm

PU packing unit in pieces
SR shrinking range in mm
th thickness of wall after shrinking mm

TS tensile strength
tot. length total length in mm
weight in gr.

width in mm
wot width of tape in mm

Cable ties system in casket

spring ball head, starting ball and drawing garter are packed in a foam cushion in the center of the casket, casket consists of:

- glass fibre tape 25, 30,5 or 50 m
- drawing garter 6 - 9 mm Ø
- spring ball heads 7, 10 and 13 mm Ø
- drawing help, 3 starting pieces 6 mm Ø
- 3 starting balls



Art. No.	length m	Ø	weight	PU
14 22 00	25,0	3,1	1250	1
14 22 02	30,5	3,1	1350	1
14 22 04	50,0	3,1	1500	1

Drawing garter

including starting ball, spare part for fish tape system



Art. No.	Ø	weight	PU
14 22 10	4 - 7	50	1
14 22 11	6 - 9	50	1

Drawing garter

including starting ball, spare part for fish tape system



Art. No.	Ø	weight	PU
14 22 12	9 - 12	50	1
14 22 13	12 - 19	50	1
14 22 14	19 - 25	50	1

Connection-sleeve

Spare part for fish-tape system



Art. No.	weight	PU
14 22 15	100	1

Drawing help

including 2 spare pressing parts, spare part for cable ties system



Art. No.	weight	PU
14 22 16	100	1

Pressing ledge for drawing helps

spare part for cable ties system

Art. No.	weight	PU
14 22 17	100	10

Spare glass fibre tape

spare part for cable ties system



Art. No.	length m	weight	PU
14 22 18	25,0	300	1
14 22 19	30,5	300	1
14 22 20	50,0	550	1

Starting ball

Art. No. 14 22 30 Starting ball

Art. No. 14 22 29 Starting piece with M5 thread



Art. No.	length mm	weight	PU
14 22 30	10	10	1
14 22 29	10	10	1

Spare part set for cable ties system

7 parts consisting of:

- Spring ball head 1, Art. No. 14 22 26
- Spring ball head 2, Art. No. 14 22 27
- Spring ball head 3, Art. No. 14 22 28
- Starting ball, Art. No. 14 22 30
- Connection sleeves, Art. No. 14 22 15
- Pressing part, Art. No. 14 22 17
- **Kleber** Art. No. 14 22 32



Art. No.	set	weight	PU
14 22 25	7-pieces	50	1

Steel fish tapes

with eyelet and brass rolling ball, without additional pilot spring



Art. No.	length m	tapes-Ø mm	weight	PU
15 01 52	10	3,5 x 0,5	135	10
15 01 54	15	3,5 x 0,5	200	10
15 01 56	20	3,5 x 0,5	270	10
15 01 58	25	3,5 x 0,5	325	10

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...Technology that connects

Spiral fish tapes

made from steel spirals, fourfold twisted, with solid steel end pieces, strip size 4 mm



Art. No.	length m	strip size	weight	PU
15 02 00	5	4	370	1
15 02 02	10	4	680	1
15 02 04	15	4	970	1
15 02 06	20	4	1310	1
15 02 08	25	4	1665	1
15 02 10	30	4	1885	1

Perlon fish tapes

made from stretched „Bayer-Perlon wire“, black, with solid steel end pieces, **with 2 eyes**, strip size 3 mm



Art. No.	length m	strip size	weight	PU
15 04 50	5	3	50	1
15 04 52	10	3	100	1
15 04 54	15	3	125	1
15 04 56	20	3	150	1
15 04 58	25	3	200	1
15 04 62	5	4	100	1
15 04 64	10	4	150	1
15 04 66	15	4	250	1
15 04 68	20	4	300	1
15 04 70	25	4	400	1

Perlon fish tapes

made from stretched „Bayer-Perlon wire“, black, with solid steel end pieces, **with additional pilot spring**, approx. 120 mm length



Art. No.	length m	strip size	weight	PU
15 02 20	5	3	100	1
15 02 22	10	3	160	1
15 02 24	15	3	230	1
15 02 26	20	3	300	1
15 02 28	25	3	375	1
15 02 30	30	3	450	1
15 02 41	10	4	165	1
15 02 43	15	4	235	1
15 02 45	20	4	305	1

Perlon fish tapes

made from stretched „Bayer-Perlon wire“, black, with solid steel end pieces, **with 2 spring and 2 eyes**, strip size 4 mm



Art. No.	length m	strip size	weight	PU
15 04 76	10	4	150	1
15 04 78	15	4	250	1
15 04 80	20	4	300	1
15 04 82	25	4	400	1

Perlon fish tapes

made from stretched „Bayer-Perlon wire“, black, with solid steel end pieces, **without additional pilot spring**, strip size 4 mm



Art. No.	length m	strip size	weight	PU
15 02 32	10	4	160	1
15 02 34	15	4	230	1
15 02 36	20	4	300	1
15 02 38	25	4	375	1
15 02 39	30	4	455	1
15 02 47	25	4	380	1

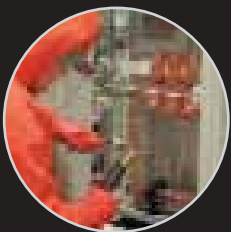
Ct max. cable tree max in mm
height in mm
length in mm

PU packing unit in pieces
SR shrinking range in mm
th thickness of wall after shrinking mm

TS tensile strength
tot. length total length in mm
weight in gr.

Standard tools

Accessories



haupa[®]

...because quality matters

2K Screwdrivers

Screwdriver range with 2-component handle made from polypropylene and thermoplastic elastomer.

The material gives enhanced grip and prevents slippage while working.

The appearance of the screwdrivers has been upgraded with a coordinated green-black colour combination.



2-component Electricians' screwdrivers

with two-component PP/TPE haft, blade made from either molybdenum-vanadium or chromium-vanadium steel, sanded blade, hardened, blast-finished, chrome plated with black point.

Art. No.	lob	CW	length	weight	PU
10 16 04	75	2,5	160	35	12
10 16 06	100	4	195	40	12
10 16 08	125	4	220	60	12
10 16 10	150	5	245	75	12
10 16 12	175	5	270	80	12
10 16 14	200	5	295	85	12



2-component Electricians' screwdrivers

with new two-component PP/TPE haft, blade made from either molybdenum-vanadium or chromium-vanadium steel, sanded blade, hardened, blast-finished, blade PCV covered

Art. No.	lob	CW	length	weight	PU
10 15 20	75	2,5	160	35	12
10 15 21	100	3	195	40	12
10 15 22	100	4	195	40	12
10 15 24	125	4	220	60	12
10 15 26	150	5	245	75	12
10 15 28	175	5	270	80	12
10 15 30	200	5	295	90	12



2-component Engineers' screwdrivers

with new two-component PP/TPE haft, blade made from either molybdenum-vanadium or chromium-vanadium steel, sanded blade, hardened, blast-finished, blade PCV covered

Art. No.	lob	CW	length	weight	PU
10 16 40	75	5	170	65	12
10 16 42	100	6	205	105	12
10 16 44	125	7	230	125	12
10 16 46	150	8	270	145	12
10 16 48	175	9	295	175	12
10 16 50	200	10	320	185	12



2-component Engineers' screwdrivers

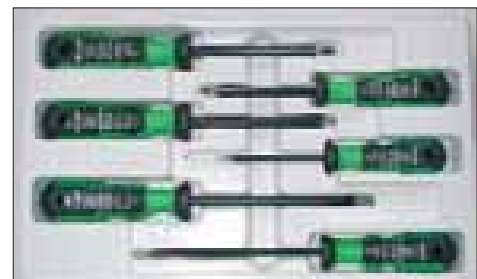
with new two-component PP/TPE haft, blade made from chromium-vanadium steel, embossed blade, polished blade surface and -side, hardened, blast-finished, blade PCV covered

Art. No.	lob	CW	length	weight	PU
10 15 32	75	5	170	65	12
10 15 34	100	6	205	105	12
10 15 36	125	7	230	125	12
10 15 38	150	8	270	145	12
10 15 40	175	9	295	175	12
10 15 41	200	10	320	185	12

2-component Screwdriver set

6-part design with a new two-component PP/TPE haft, blade made from either molybdenum-vanadium or chromium-vanadium steel, hardened, blast-finished, blade coated with flexible black material. Content: 2 electrician's screwdrivers, 2 engineers' screwdrivers, 2 **Phillips** screwdrivers

Art. No.	set	weight	PU
10 15 60	6-pieces	550	1



2-component Cross slotted screwdrivers Phillips



with two-component PP/TPE haft, Phillips, blade made from either molybdenum-vanadium or chromium-vanadium steel, hardened, blast-finished, chrome plated with black point



Art. No.	size	M	lob	length	weight	PU
10 16 84	0	1,6 - 2	60	145	30	12
10 16 86	1	2 - 3	80	175	55	12
10 16 88	2	3,5 - 5	100	205	80	12
10 16 90	3	5,5 - 7	150	270	140	12

2-component Cross slotted screwdrivers Phillips



with new two-component PP/TPE haft, Phillips, blade made from either molybdenum-vanadium or chromium-vanadium steel, hardened, blast-finished, blade PCV covered



Art. No.	size	M - M	lob	length	weight	PU
10 15 42	0	1,6 - 2	60	145	30	12
10 15 44	1	2 - 3	80	175	60	12
10 15 46	2	3,5 - 5	100	205	75	12
10 15 48	3	6	150	270	150	12

2-component Cross slotted screwdrivers Pozidriv



with two-component PP/TPE haft, Pozidriv, blade made from either molybdenum-vanadium or chromium-vanadium steel, hardened, blast-finished, chrome plated with black point



Art. No.	size	lob	M - M	length	weight	PU
10 26 12	1	80	2 - 3	175	60	12
10 26 14	2	100	3,5 - 5	205	75	12
10 26 16	3	150	6	270	150	12

2-component Cross slotted screwdrivers Pozidriv



with new two-component PP/TPE haft, Pozidriv, blade made from either molybdenum-vanadium or chromium-vanadium steel, hardened, blast-finished, blade PCV covered



Art. No.	size	lob	M - M	length	weight	PU
10 15 50	1	80	2 - 3	175	60	12
10 15 52	2	100	3,5 - 5	205	75	12
10 15 54	3	150	6	270	150	12

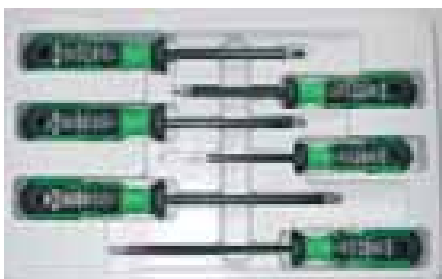
2-component screwdriver set



6-part design with a new two-component PP/TPE haft, blade made from either molybdenum-vanadium or chromium-vanadium steel, hardened, blast-finished, blade coated with flexible black material.

Content:

- 2 electric. screwdrivers
- 2 engineers screwdrivers
- 2 **Pozidriv** screwdrivers



Art. No.	set	weight	PU
10 15 62	6-pieces	550	1

2-component screwdrivers Tx



with two-component PP/TPE haft, blade made from chromium-vanadium steel, chrome plated with black point, uninsulated blades



Art. No.	size	M - M	lob	length	weight	PU
10 12 29/6	TX 6	2	100	185	30	12
10 12 30	TX 8	2,5	100	185	30	12
10 12 31	TX 9	3	100	185	30	12
10 12 32	TX 10	3 - 3,5	100	195	35	12
10 12 33	TX 15	3,5 - 4	100	195	35	12
10 12 34	TX 20	4 - 5	100	195	63	12
10 12 35	TX 25	4,5 - 5	125	220	65	12
10 12 36	TX 27	4,5 - 6	125	230	75	12
10 12 37	TX 30	6 - 7	150	255	100	12
10 12 38	TX 40	7 - 8	175	295	125	12
10 12 29	TX 55	12	200	320	150	12

2-component screwdrivers Tx with security pin



with two-component PP/TPE haft, blade made from chromium-vanadium steel, chrome plated with black point, uninsulated blades



Art. No.	size	M - M	Ø	lob	length	weight	PU
10 12 00	TX 9	2,5	3,0	100	185	30	12
10 12 02	TX 10	3	3,0	100	195	35	12
10 12 04	TX 15	3 - 3,5	3,5	100	195	35	12
10 12 06	TX 20	3,5 - 4	4,0	100	195	63	12
10 12 08	TX 25	4 - 5	4,5	125	220	65	12
10 12 10	TX 27	4,5 - 5	5,0	125	230	75	12
10 12 11	TX 30	6-7	5,0	150	255	160	12

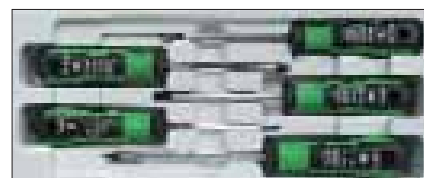
2-component screwdriver set Tx



5 pieces

Contents: 1 screwdriver each TX 10, TX 15, TX 20, TX 25, TX 30

Art. No. 101212/S: Screwdriver assortment Tx with security pin



Art. No.		set	weight	PU
10 12 12	for Tx	5-pieces	385	1
10 12 12/S	for Tx with security pin	5-pieces	385	1

Electricians' screwdrivers Black Line



of chrome vanadium steel, with large black PPN-handle, polished, gun metal finish, blade uninsulated



Art. No.	lob	CW	length	weight	PU
10 07 50	75	3	155	35	12
10 07 52	100	4	180	40	12
10 07 54	125	4	215	60	12
10 07 56	150	5	240	75	12
10 07 58	175	5	265	80	12
10 07 60	200	5	290	85	12

Electricians' screwdrivers Black Line



of chrome vanadium steel, with large black PPN-handle, polished, gun metal finish, blade PCV-covered



Art. No.	lob	CW	length	weight	PU
10 07 64	75	3	155	35	12
10 07 66	100	4	180	40	12
10 07 68	125	4	215	60	12
10 07 70	150	5	240	75	12
10 07 72	175	5	265	80	12
10 07 74	200	5	290	90	12

Engineers' screwdrivers Black Line



of chrome vanadium steel, with large black PPN-handle, polished, gun metal finish, blade uninsulated



Art. No.	lob	CW	length	weight	PU
10 07 78	75	5	165	65	12
10 07 80	100	6	200	105	12
10 07 82	125	7	225	125	12
10 07 84	150	8	260	145	12
10 07 86	175	9	285	175	12
10 07 88	200	10	310	185	12

Engineers' screwdrivers Black Line



of chrome vanadium steel, with large black PPN-handle, polished, gun metal finish, blade PCV-covered



Art. No.	lob	CW	length	weight	PU
10 07 90	75	5	165	65	12
10 07 91	100	6	200	105	12
10 07 92	125	7	225	125	12
10 07 94	150	8	260	150	12
10 07 96	175	9	285	180	12
10 07 98	200	10	310	190	12

Cross slotted screwdrivers Phillips



of chrome vanadium steel, with large black PPN-handle, polished, gun metal finish, blade uninsulated



Art. No.	size	lob	length	weight	PU
10 08 74	0	60	140	30	12
10 08 76	1	80	160	55	12
10 08 78	2	100	190	80	12
10 07 45	3	150	250	150	12

Cross slotted screwdrivers Phillips



of chrome vanadium steel, with large green PPN-handle, polished, gun metal finish, PCV covered



Art. No.	size	lob	length	weight	PU
10 08 82	0	60	140	30	12
10 08 84	1	80	160	55	12
10 08 86	2	100	190	80	12
10 07 46	3	150	250	150	12

Cross slotted screwdrivers Pozidriv



of chrome vanadium steel, with large black PPN-handle, polished, gun metal finish, PCV covered



Art. No.	size	lob	length	weight	PU
10 08 90	1	80	160	60	12
10 08 92	2	100	190	75	12
10 07 47	3	150	250	150	12

Screwdriver sets Black Line



7 pieces

Black Line Electricians' screwdriver 75 mm, Black Line Electricians' screwdriver 100 mm, Black Line Electricians' screwdriver 125 mm, Black Line Electricians' screwdriver 150 mm, Black Line Engineers' screwdriver 100 mm, Black Line Engineers' screwdriver 150 mm, Black Line cross-slotted screwdriver size 2



Art. No.	set	weight	PU
10 07 40	7-pieces	530	1

Black Line stubby screwdrivers



chrome vanadium steel, chrome-plated, with large plastic handle, uninsulated blades, with black point



Art. No.	lob	CW	length	weight	PU
10 31 20	30	6	80	40	12
10 31 22	40	8	90	40	12

Black Line stubby screwdrivers Phillips



chrome vanadium steel, chrome-plated, with large plastic handle, uninsulated blades, with black point



Art. No.	size	M - M	lob	length	weight	PU
10 30 80	1	2,2 - 3,2	30	80	35	12
10 30 82	2	3,2 - 5,2	40	90	45	12

Black Line screwdrivers Tx



chrome vanadium steel, chrome-plated, with large plastic handle, uninsulated blades, with black point



Art. No.	size	M - M	lob	length	weight	PU
10 32 29/6	TX 6	2	60	130	30	12
10 32 30	TX 8	2,5	70	140	30	12
10 32 31	TX 9	3	70	140	30	12
10 32 32	TX 10	3 - 3,5	80	160	35	12
10 32 33	TX 15	3,5 - 4	80	160	35	12
10 32 34	TX 20	4 - 5	100	190	63	12
10 32 35	TX 25	4,5 - 5	100	190	65	12
10 32 36	TX 27	4,5 - 6	110	200	75	12
10 32 37	TX 30	6 - 7	110	210	100	12
10 32 38	TX 40	7 - 8	120	220	125	12
10 32 29	TX 55	12	130	250	150	12

Black Line screwdrivers Tx with security pin



chrome vanadium steel, chrome-plated, with large plastic handle, uninsulated blades, with black point



Art. No.	size	M - M	Ø	lob	weight	PU
10 32 00	TX 9	2,5	3,0	70	30	12
10 32 02	TX 10	3	3,0	80	35	12
10 32 04	TX 15	3 - 3,5	3,5	80	35	12
10 32 06	TX 20	3,5 - 4	4,0	100	63	12
10 32 08	TX 25	4 - 5	4,5	100	65	12
10 32 10	TX 27	4,5 - 5	5,0	110	75	12

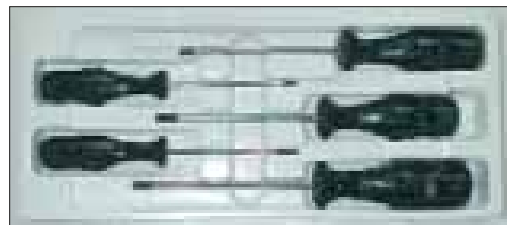
Black Line screwdriver assortment Tx



5 pieces

Contents: 1 screwdriver each TX 10, TX 15, TX 20, TX 25, TX 30

Art. No. 10 30 76/S: Screwdriver assortment Tx with security pin



Art. No.	set	weight	PU
10 30 76	for Tx 5-pieces	385	1
10 30 76/S	for Tx with security pin 5-pieces	385	1

Black Line piercing awls

chrome vanadium steel, with shock-proof plastic handle, round point



Art. No.	Ø	length	weight	PU
10 34 70	6	100	75	12

Black Line piercing awls

chrome vanadium steel, with shock-proof plastic handle, square point



Art. No.	Ø	length	weight	PU
10 34 72	6	100	75	12

Black Line screwdriver set



chrome vanadium steel, chrome-plated, with large plastic handle, PCV covered, with black point, 7 pieces

Contents:

each 1 Electricians' screwdrivers 3 x 75, 4 x 100, 4 x 125 mm, 5 x 150 mm, 5 x 175 mm and 5 x 200 mm, 1 cross slotted screwdriver Phillips size 1



Art. No.	set	weight	PU
10 34 02	7-pieces	530	1

Black Line Screwdriver set



chrome vanadium steel, chrome-plated, with large plastic handle, PCV covered, with black point, 6 pieces

Contents: each 1 Electricians' screwdrivers 3 x 75 mm, 4 x 100 mm, 5 x 150 mm, 1 screwdriver 6 x 100 mm, 1 cross slotted screwdriver Phillips size 1, 1 voltage tester



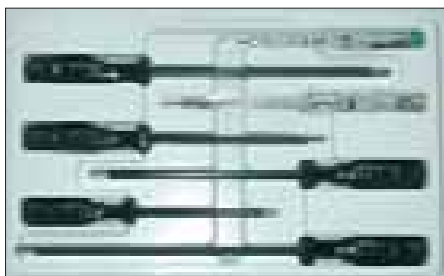
Art. No.	set	weight	PU
10 34 05	6-pieces	500	1

Black Line Screwdriver set



chrome vanadium steel, chrome-plated, with large plastic handle, with black point, 7 pieces

Contents: each 1 Electricians' screwdrivers 4 x 100 mm, 4 x 125 mm, 5 x 150 mm, 5 x 175 mm, 5 x 200 mm, each 1 voltage tester 3 x 50 mm, 3,5 x 100 mm



Art. No.	set	weight	PU
10 34 00	7-pieces	550	1

Black Line Socket wrenches



chrome vanadium steel, chrome-plated, for hexagon nuts, with large plastic handle



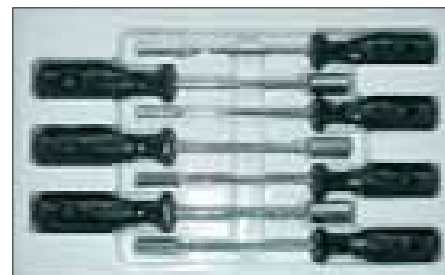
Art. No.	size	M	lob	length	weight	PU
10 34 84	5	2,6	125	215	85	6
10 34 86	5,5	3,5	125	215	85	6
10 34 88	6	3,5	125	215	90	6
10 34 90	7	4,5	125	220	110	6
10 34 92	8	5,5	125	220	130	6
10 34 94	9	-	125	220	135	6
10 34 96	10	6,5	125	220	140	6
10 35 00	12	-	125	220	150	6
10 35 02	13	8,5	125	220	175	6
10 35 06	17	10,5	125	220	200	6

Black Line Socket wrenches set



chrome vanadium steel, chrome-plated, for hexagon nuts, with large plastic handle, 7-pieces

Contents: size 5 - 5,5 - 7 - 8 - 10 - 11 - 13



Art. No.	set	weight	PU
10 35 10	7-pieces	890	1

2-component Socket wrenches



chrome vanadium steel, chrome-plated, for hexagon nuts, with 2 components-handle of PP/TPE



Art. No.	size	M	lob	length	weight	PU
10 14 84	5	2,6	125	220	85	6
10 14 86	5,5	3,5	125	220	85	6
10 14 88	6	3,5	125	220	90	6
10 14 90	7	4,5	125	230	110	6
10 14 92	8	5,5	125	230	130	6
10 14 94	9	-	125	230	135	6
10 14 96	10	6,5	125	230	140	6
10 15 00	12	-	125	245	150	6
10 15 02	13	8,5	125	245	175	6
10 15 06	17	10,5	125	245	200	6

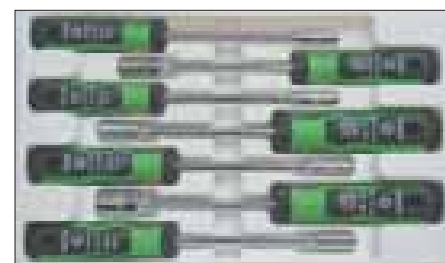
2-component Socket wrenches set



chrome vanadium steel, chrome-plated, for hexagon nuts, with 2 components-handle of PP/TPE, 7 pieces

Contents:

1 piece each 5 - 5,5 - 7 - 8 - 10 - 11 - 13 mm



Art. No.	set	weight	PU
10 15 10	7-pieces	890	1

Screwdrivers for electronics



chrome vanadium steel, chrome-plated, with large green plastic handle, uninsulated blades, with black point



Art. No.	lob	CW	Cth	Ø	length	weight	PU
10 02 41	60	2,5	0,4	2,5	145	11	12
10 02 42	75	2,5	0,4	2,5	158	11	12
10 02 43	100	3,5	0,5	3,5	185	13	12
10 02 44	150	3,5	0,5	3,5	230	17	12
10 02 45	100	4,5	0,6	4,5	185	21	12
10 02 46	150	4,5	0,5	4,5	230	24	12

Precision screwdrivers for slotted screws



for electronic and fine-mechanic, chrome vanadium steel, hard and high-elastic, chrome-plated, with green plastic handle, with black point



Art. No.	lob	CW	Cth	length	weight	PU
10 07 04	60	0,8	0,2	145	15	12
10 07 04A	60	1,2	0,2	145	15	12
10 07 10	60	3,0	0,5	145	17	12

Precision screwdrivers for cross slotted screws



for electronic and fine-mechanic, chrome vanadium steel, hard and high-elastic, chrome-plated, with green plastic handle, with black point



Art. No.	size	M	lob	length	weight	PU
10 07 15	00	2	60	145	15	12
10 07 16	0	2	60	145	18	12

Precision screwdrivers Tx



for electronic and fine-mechanic, chrome vanadium steel, hard and high-elastic, chrome-plated, with green plastic handle, with black point



Art. No.	size	M	lob	length	weight	PU
10 07 18A	TX 06	-	60	145	17	12
10 07 20	TX 07	1,6/2	60	145	17	12
10 07 21	TX 08	2,5	60	145	17	12
10 07 22	TX 09	3	60	145	17	12

Precision screwdrivers Tx with security pin



for electronic and fine-mechanic, chrome vanadium steel, hard and high-elastic, chrome-plated, with green plastic handle, with black point



Art. No.	size	lob	length	weight	PU
10 07 12	TX 09	60	145	17	12
10 07 13	TX 10	60	145	18	12

Precision screwdrivers for electronic ballpoint



for electronic and fine-mechanic, chrome vanadium steel, hard and high-elastic, chrome-plated, with green plastic handle, with black point



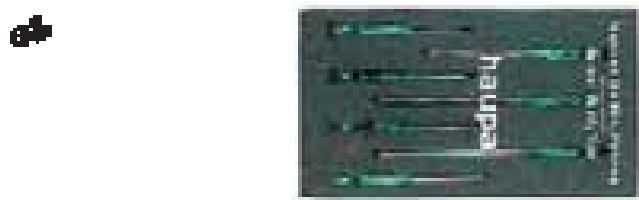
Art. No.	mm	lob	length	weight	PU
10 07 18	2,0	60	145	15	12

Electronic screwdriver sets



chrome vanadium steel, chrome-plated, with large plastic handle, with black point, 7 pieces

Electricians' screwdriver 5 x 60 mm, 1,5 x 80 mm, 2,5 x 60 mm, 2,5 x 75 mm, 3,5 x 100 mm, 3,5 x 150 mm, 4,5 x 150 mm



Art. No.	set	weight	PU
10 02 47	7-pieces	250	1

Retaining screwdrivers



chrome vanadium steel, nickel-plated, with green plastic handle, two-piece blade



Art. No.	lob	CW	length	weight	PU
10 02 84	145	5	235	25	12
10 02 86	200	5	285	30	12
10 02 88	300	5	390	60	12

Retaining screwdrivers



chrome vanadium steel, nickel-plated, with green plastic handle, two-piece blade, retaining device



Art. No.	lob	CW	length	weight	PU
10 02 90	75	2,5	165	25	12
10 02 92	100	3,5	190	40	12
10 02 94	125	4,5	225	70	12
10 02 96	150	5,5	260	105	12

Retaining screwdrivers



chrome vanadium steel, nickel-plated, with green plastic handle, retaining device



Art. No.	size	M	lob	length	weight	PU
10 03 00	0	- 2	125	225	70	12
10 03 02	1	2 - 3	150	260	105	12
10 03 04	2	3 - 5,2	175	285	130	12

haupa®

...because quality matters

Flexible screwdrivers „Piccolo“



with pliable, plastic coated shank, plastic handle



Art. No.	lob	CW	length	weight	PU
10 03 64	125	2,8	205	20	1

Claw retrievers

with flexible shaft, chrome-plated, for gripping and retrieving of small parts in normally inaccessible places



Art. No.	size	weight	PU
10 03 66	525	115	1

Claw retrievers

with flexible shaft, chrome-plated, for gripping and retrieving of small parts in normally inaccessible places



Art. No.	size	weight	PU
10 03 68	165	30	1

Checking mirrors

with double ball joint



Art. No.	length	Ø	weight	PU
10 06 80	210	60	45	1

Checking mirrors

with illumination, flexible shaft and plastic handle, 3 interchangeable mirrors Ø 14-23-30 mm, with battery



Art. No.	length	weight	PU
10 06 84	530	125	1

Magnetic retriever

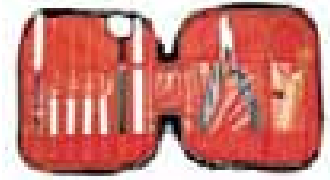
flexible shaft and plastic handle



Art. No.	length	Ø	weight	PU
10 06 94	520	12	230	1

Miniature trimming set

9-pieces



Art. No.	weight	PU
10 06 96	210	1

Allen keys DIN 911



chrome vanadium steel, (59 Cr-Mo-V 4), chromium-plated



Art. No.	size	M	M/Inch	dimension	weight	PU
10 05 90	1,5	-	1/16	45 x 14	1	5
10 05 92	2	-	5/64	50 x 16	2	5
10 05 94	2,5	3	3/32	56 x 18	4	5
10 05 96	3	4	1/8	63 x 20	5	5
10 05 98	4	5	5/32	70 x 25	5	5
10 06 00	5	6	3/16	80 x 28	15	5
10 06 02	6	8	1/4	90 x 32	30	5
10 06 06	8	10	5/16	100 x 36	60	5
10 06 10	10	12	3/8	112 x 40	105	5
10 06 12	12	14	-	125 x 45	160	5
10 06 14	13	-	1/2	132 x 50	215	5

Allen keys set



chrome vanadium steel, (59 Cr-Mo-V 4), chromium-plated, DIN 911, 8 pieces in handy plastic box, with sliding plexiglasscover, size 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10



Art. No.	set	weight	PU
10 05 85	8-pieces	290	1

Allen keys set



chrome vanadium steel, (59 Cr-Mo-V 4), im metal clip, black keys, DIN 911

Art. No. 10 06 30: Contents: 2,5 - 3 - 4 - 5 - 6 - 8 mm

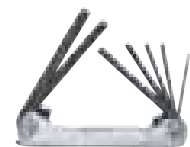
Art. No. 10 06 33: Contents: 1,5 - 2,5 - 3 - 4 - 5 - 6 mm

Art. No. 10 06 34: Contents: 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm

Art. No. 10 06 32: Contents: 3/32 - 1/8 - 5/32 - 3/16 - 1/4 - 5/16" AF

Art. No. 10 06 35: Contents: 1/16 - 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32" AF

Art. No. 10 06 36: Contents: 3/32 - 1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8" AF

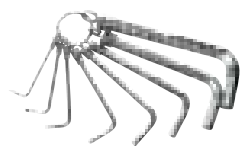


Art. No.	quantity	weight	PU
10 06 30	6	220	1
10 06 33	7	150	1
10 06 34	7	350	1
10 06 32	6	240	1
10 06 35	7	150	1
10 06 36	7	370	1

Allen keys set



chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chromium-plated, on key ring
Contents: size 2,5 - 3 - 4 - 5 - 6 - 8 - 10



Art. No.	quantity	weight	PU
10 06 40	8	250	10

Ball point allen keys



chrome vanadium steel, (59 Cr-Mo-V 4), chromium-plated



Art. No.	mm	length	weight	PU
10 09 02	2,5	56 x 18	4	10
10 09 03	3	63 x 20	5	10
10 09 04	4	70 x 25	10	10
10 09 05	5	80 x 28	18	10
10 09 06	6	90 x 32	30	10
10 09 08	8	100 x 36	59	5
10 09 09	10	112 x 40	103	5

Ball point allen keys



chrome vanadium steel, (59 Cr-Mo-V 4), im metal clip, black keys, DIN 911
Contents: size 2,5 - 3 - 4 - 5 - 6 - 8 - 10



Art. No.	quantity	weight	PU
10 09 17	7	370	1

Ball point allen keys



chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chromium-plated, 8 pieces in handy plastic box, with pushable plexiglasscover, size 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10



Art. No.	set	weight	PU
10 09 15	8-pieces	290	6

Ball point allen keys



straight blade of chrome vanadium steel, (59 Cr-Mo-V 4), chromium-plated, with plastic handle



Art. No.	size	lob	length	weight	PU
10 10 06	1,5	75	155	30	12
10 10 08	2	100	180	30	12
10 10 12	3	100	180	35	12
10 10 14	4	100	200	50	12
10 10 16	5	100	200	75	12
10 10 18	6	125	225	90	12
10 10 20	8	150	250	155	12
10 10 22	10	150	250	225	12
10 10 24	12	150	260	300	12

Allen keys Tx



chrome vanadium steel, (59 Cr-Mo-V 4), nickel-plated



Art. No.	size	length	weight	PU
10 09 64	TX 5	42 x 16	2	10
10 09 66	TX 6	42 x 16	2	10
10 09 68	TX 7	48 x 16	2	10
10 09 70	TX 8	48 x 16	3	10
10 09 72	TX 9	48 x 16	3	10
10 09 74	TX 10	51 x 17	4	10
10 09 88	TX 45	83 x 29	43	10

Allen keys set Tx



chrome vanadium steel, (59 Cr-Mo-V 4), 8 pieces in handy plastic box, surface black, Contents: TX 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40



Art. No.	set	weight	PU
10 09 41	8-pieces	110	6

Keys set Tx



chrome vanadium steel, (59 Cr-Mo-V 4), in metal-clip, surface black, keys black
Contents: TX 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40



Art. No.	quantity	weight	PU
10 09 43	8	260	1

VDE/GS-Voltage testers, VDE-tested 0426/72

with clear-transparent, shock-resistant plastic handle

Art. No. 10 06 46 each in wallet

Art. No. 10 06 47 loose



Art. No.	test	lob	CW	length	weight	PU
10 06 46	100 - 250	50	3	140	20	12
10 06 47	100 - 250	50	3	140	12	12

VDE/GS-Voltage testers, VDE-tested 0426/72

with clear-transparent, shock-resistant plastic handle

Art. No. 10 06 48 each in wallet

Art. No. 10 06 49 loose



Art. No.	test	lob	CW	length	weight	PU
10 06 48	100 - 250	100	3,5	190	25	12
10 06 49	100 - 250	100	3,5	190	18	120

Voltage testers

Finnish type, Cellidor

only for Finland available



Art. No.	test	lob	CW	length	weight	PU
10 06 45	150 - 250	50	3	140	20	12

Voltage testers VDE/GS

with retractable screwdriver blade



Art. No.	test	lob	CW	length	weight	PU
10 06 50	150 - 250	25	4	140	25	12

Voltage testers VDE/GS

5 mm surrounding hand-protection, clip of insulating material, fixed installed scale with dark background



Art. No.	test	length	weight	PU
10 07 00	125 - 250	190	25	12

INFO**Bits**

HAUPA-Bits are made of high-alloyed tool steel, best hardened (H Rc 60 - 63). They show very high tenacity and tolerance. The long life speaks of the hard use and quality.

**Screwdriver bits**

DIN 3126, form E 6,3, shank 1/4", 5 pieces on card



Art. No.	size	length	PU
10 21 10	0,6 x 4,5	50	1
10 21 12	0,8 x 5,5	50	1

Screwdriver bits

DIN 3126, form E 6,3, shank 1/4", 5 pieces on card



Art. No.	size	length	PU
10 21 52	PH 1	25	1
10 21 54	PH 2	25	1
10 21 56	PH 1 TiN	25	1
10 21 58	PH 2 TiN	25	1
10 21 14	PH 1	50	1
10 21 16	PH 2	50	1
10 21 60	PH 1 TiN	50	1
10 21 62	PH 2 TiN	50	1
10 21 64	PH 1	90	1
10 21 66	PH 2	90	1
10 21 68	PH 1 TiN	90	1
10 21 70	PH 2 TiN	90	1
10 21 72	PH 1	150	1
10 21 74	PH 2	150	1

Screwdriver bits



DIN 3126, form E 6,3, shank 1/4", 5 pieces on card



Art. No.	size	length	PU
10 21 76	PZ 1	25	1
10 21 78	PZ 2	25	1
10 21 80	PZ 1 TiN	25	1
10 21 82	PZ 2 TiN	25	1
10 21 18	PZ 1	50	1
10 21 20	PZ 2	50	1
10 21 84	PZ 1 TiN	50	1
10 21 86	PZ 2 TiN	50	1
10 21 88	PZ 1	90	1
10 21 90	PZ 2	90	1
10 21 92	PZ 1 TiN	90	1
10 21 94	PZ 2 TiN	90	1
10 21 96	PZ 1	150	1
10 21 98	PZ 2	150	1

Screwdriver bits Tx



DIN 3126, form E 6,3, shank 1/4", 5 pieces on card



Art. No.	size	length	PU
10 22 00	TX 15	25	1
10 22 02	TX 20	25	1
10 22 04	TX 25	25	1
10 21 22	TX 15	50	1
10 21 24	TX 20	50	1
10 21 26	TX 25	50	1

Magnetic holder

with strong magnetic, shank 1/4", form C 6,3 DIN 3126, for holding the screws, socket made of stainless steel, suitable for all



Art. No.	length	weight	PU
10 21 30	75	44	1

SDS magnetic holder

with strong permanent magnet, bit holder 1/4", form C 6.3 DIN 3126, to hold screws, rust-free, stainless steel sleeve, suitable for SDS bits holders



Art. No.	length	weight	PU
10 21 31	55	44	1

Magnetic holder

with strong magnetic, shank 1/4", form C 6,3 DIN 3126, for holding the screws, socket made of stainless steel, with inside ring, suitable for all



Art. No.	length	weight	PU
10 21 32	75	36	1
10 21 34	60	28	1

Bit boxes



Contents: 1 magnetic holder 1/4" hexagon, 2 Bits 1/4" slotted, 2 bits 1/4" Phillips, 2 bits 1/4" Pozidriv



Art. No.	set	weight	PU
10 21 40	7-pieces	95	15

Bit boxes



Contents: 1 magnetic holder 1/4" hexagon, 3 bits 1/4" slotted, 3 bits 1/4" Phillips, 3 bits 1/4" Pozidriv

Art. No. 10 01 44 without clamp holder for the magnetic holder



Art. No. 10 21 44



Art. No. 10 21 42



Art. No.	set	weight	PU
10 21 42	10-pieces	110	12
10 21 44	10-pieces	110	12

Bit boxes



Contents:

1 magnetic holder 1/4" hexagon, 3 bits 1/4" Phillips, 3 bits 1/4" Pozidriv (TiN-coated)



Art. No.	set	weight	PU
10 21 48 TiN	7-pieces	97	15

Bit boxes



Contents: 1 magnetic holder 1/4" hexagon, 2 bits slotted, 2 bits 1/4" Phillips, 2 bits 1/4" Pozidriv



Art. No.	set	weight	PU
10 21 46	7-pieces	86	15

Bit boxes Tx



Contents: 1 magnetic holder 1/4" hexagon, 1 bit each Tx 10, Tx 15, Tx 20, Tx 25, Tx 27, Tx 30, Tx 40



Art. No.	set	weight	PU
10 21 50	8-pieces	92	15

Socket tools

Socket sets, Engineering tools

Double ended spanners acc. to DIN 3110

chrome vanadium steel, bright chromium-plated, head polished, offset at 15°



Art. No.	mm	length	strength	weight	PU
11 00 90	6 x 7	120	3,2	20	5
11 00 92	8 x 9	140	3,5	30	5
11 00 94	10 x 11	157	4,0	42	5
11 00 96	12 x 13	172	4,5	57	5
11 01 00	14 x 15	190	5,0	93	5
11 01 04	16 x 17	205	5,5	110	5
11 01 08	18 x 19	223	6,0	145	5
11 01 12	21 x 23	250	7,0	225	5
11 01 14	24 x 26	250	7,0	290	5
11 01 20	27 x 32	302	8,2	420	5

Double ended spanners set acc. to DIN 3110

chrome vanadium steel, chromium-plated, head polished, in plastic bags

Contents:

Art. No. 11 01 30: 1 piece each 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22

Art. No. 11 01 32: 1 piece each 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 26 - 25 x 28 - 27 x 32



Art. No.	set	weight	PU
11 01 30	8-pieces	730	1
11 01 32	12-pieces	2000	1

Double ended ring spanners to DIN 838

chrome vanadium steel, bright chromium-plated, head polished, offset at 75°



Art. No.	mm	length	weight	PU
11 01 40	6 x 7	170	38	5
11 01 42	8 x 9	185	60	5
11 01 44	10 x 11	205	86	5
11 01 46	12 x 13	220	130	5
11 01 48	14 x 15	240	160	5
11 01 52	16 x 17	265	205	5
11 01 54	18 x 19	280	255	5
11 01 60	24 x 26	335	450	5
11 01 64	27 x 32	370	630	5

Double ended ring spanner sets DIN 838

chrome vanadium steel, bright chromium-plated, head polished, in plastic bags
Contents:

Art. No. 11 01 70: 1 piece each 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22

Art. No. 11 01 72: 1 piece each 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 26 - 25 x 28 - 27 x 32



Art. No.	set	weight	PU
11 01 70	8-pieces	1350	1
11 01 72	12-pieces	3430	1

Combination spanners similar to DIN 3113

chrome vanadium steel, chromium-plated, head polished, offset at 15°



Art. No.	mm	length	weight	PU
11 01 80	6	100	13	5
11 01 82	7	110	16	5
11 01 84	8	120	23	5
11 01 86	9	130	25	5
11 01 88	10	140	35	5
11 01 90	11	150	45	5
11 01 92	12	160	52	5
11 01 94	13	170	70	5
11 01 96	14	180	85	5
11 01 98	15	190	95	5
11 02 02	17	210	125	5
11 02 04	18	220	140	5
11 02 06	19	230	160	5
11 02 12	22	260	255	1
11 02 16	24	280	285	1
11 02 22	27	310	390	1

Combination spanners similar to DIN 3113

chrome vanadium steel, bright chromium-plated, head polished, in plastic bags
Contents:

Art. No. 11 02 50: 1 piece each SW 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22

Art. No. 11 02 52: 1 piece each SW 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 18 - 19 - 22 - 24 - 27



Art. 11 02 50

Art. 11 02 52

Art. No.	set	weight	PU
11 02 50	12-pieces	985	1
11 02 52	16-pieces in paper box	3000	1

Socket set

1/4"

chrome vanadium steel, „Profi“-quality GS-tested, black plastic case, 1/4" Dr
Contents: 12-Socket: 4- 4.5- 5- 5.5- 6- 7- 8- 9- 10- 11- 12- 13mm, 1-Ratchet
Handle, 72-gears with Quick release function,
14-insert bit socket PH: 1-2-3, HX: 3-4-5-6-8, TX: 10-15-20-25-27-30, 1-Flexible
extension bar, 2-Extension bars 50 & 100mm, 1-Universal joint, 1-sliding T-bar,
1-Spinner handle for screwdriver



Art. No.	set	weight	PU
11 06 74	33-pieces	1300	1

Socket set

3/8"

chrome vanadium steel, „Profi“-quality GS-tested, black plastic case, 3/8" Dr
Contents: 18-Socket: 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-24mm,
1-Ratchet Handle, 72-gears with Quick release functio, 1-Universal joint, 1-sliding
head for extension bar work as T handle, 2-Spark plug socket 16 & 21mm,
3-Extension bars 20-75-150mm



Art. No.	set	weight	PU
11 06 76	26-pieces	2400	1

Socket set

1/2"

chrome vanadium steel, „Profi“-quality GS-tested, black plastic case, 1/2" Dr
Contents: 20-Socket: 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27-28-
30-32mm, 1-Ratchet Handle, 72-gears with Quick release function, 1-Extension
bar, Safety locking type 250mm, 1-Extension bar 125mm,
1-sliding T-bar 300mm,
1-Universal joint



Art. No.	set	weight	PU
11 06 77	25-pieces	5950	1

Socket set

1/4" 1/2"

chrome vanadium steel, „Profi“-quality GS-tested, black plastic case,
Contents: **1/4"**: 12-Socket 4- 4.5- 5- 5.5- 6- 7- 8- 9- 10- 11- 12- 13mm,
1-Ratchet Handle, 72-gears with Quick release function, 1-Universal joint,
1-sliding head for extension bar work as T handle, 2-Extension bars 50 &
150mm, 1-Spinner handle for screwdriver, 12-Insert Bit-Sockets: PH: 1-2;
HX: 3-4-5-6; FD: 5.5-7; TX: 20-25-27-30, 5-Hex keys: 1.25- 1.5- 2.0- 2.5- 3.0mm
1/2": 13-Socket 10-11-12-13-14-15-17-19-22-24-27-30-32mm, 1-Ratchet
Handle, 72-gears with Quick release function,
2-Extension bars 75 & 250mm, 1-sliding head for extension bar work as
T handle, 2-Plug sockets 16 & 21mm, 1-Universal joint



Art. No.	set	weight	PU
11 06 78	53-pieces	5750	1

Spanners for switch-cabinets

made of metall for hight torques, small size, low weight, with chain inside square
6 mm, inside square 7 - 8 mm, inside threesquare 7 - 8 mm,
double size 3 - 5 mm



Art. No.	size	weight	PU
11 06 96	72 x 72	20	10



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Adjustable wrenches to DIN 3117 A

steel forged, chromium-plated
(I = Importquality)



Art. No.	length	a-range	depth jaw	th. jaw	weight	PU
11 05 80	160	19	18	11	120	6
11 05 82	210	24	21	13	255	6
11 05 82I	210	24	21	13	255	6
11 05 84	260	29	24	15	440	6
11 05 84I	260	29	24	15	440	6
11 05 86	310	34	28	19	630	6
11 05 86I	310	34	28	19	630	6

Adjustable wrenches to DIN 3117 A

steel forged, head polished, gun metal finish



Art. No.	length	a-range	depth jaw	th. jaw	weight	PU
11 05 90	160	19	18	11	120	6
11 05 92	210	24	21	13	255	6
11 05 94	260	29	24	15	440	6
11 05 96	310	34	28	19	630	6

Pliers

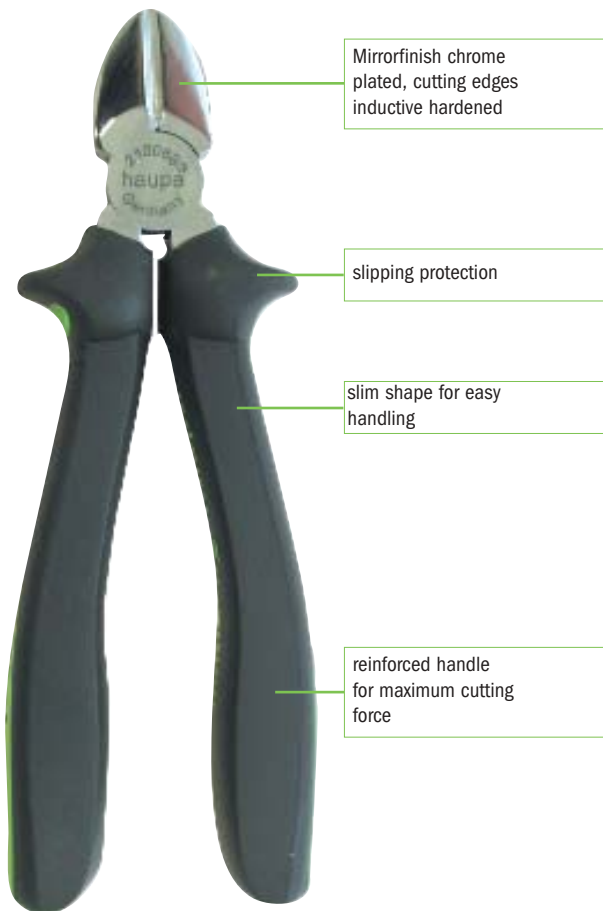
Wire stripping pliers, Grip pliers,
Pipe wrenches, Special pliers
Tweezers

Black Line

2-component pliers

New pliers range with 2-component handle made from polypropylene and thermoplastic elastomer.

Ergonomic design.



2-component Combination pliers DIN 5746

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, polished head, for soft wire and hard wire



Art. No.	length	soft	hard	weight	PU
21 00 52	160	4,0	2,0	200	1
21 00 53	180	4,0	2,2	250	1
21 00 54	200	4,2	2,5	310	1

2-component Diagonal cutters DIN 5749

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, polished head, for soft wire and hard wire



Art. No.	length	soft	hard	weight	PU
21 00 67	140	4,0	1,8	150	1
21 00 68	160	4,0	2,0	180	1

2-component Heavy duty diagonal cutters DIN 5749

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, polished head, for soft wire and hard wire



Art. No.	length	soft	hard	weight	PU
21 01 57	180	4,0	2,7	293	1
21 01 58	200	4,2	3,0	310	1

2-component Long flat nose pliers DIN 5745

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, polished head



Art. No.	length	weight	PU
21 03 13	160	145	1

2-component Long round nose pliers DIN 5745

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, polished head



Art. No.	length	weight	PU
21 03 50	160	130	1

2-component Long chain nose pliers DIN 5745

with side cutter, straight, alloyed carbon steel, forged and annealed, cutting edges induction hardened, for soft wire and hard wire, with 2 component plastic handle with hand protection, chromium-plated, polished head



Art. No.	length	weight	PU
21 03 94	160	115	1
21 03 96	200	165	1

2-component Long chain nose pliers DIN 5745

with side cutter, 45° angled nose, alloyed carbon steel, forged and annealed, cutting edges induction hardened, for soft wire and hard wire, with 2 component plastic handle with hand protection, chromium-plated, polished head



Art. No.	length	weight	PU
21 03 98	200	180	1

2-component Wire stripping pliers DIN 7168

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, polished head



Art. No.	length	mm²	weight	PU
21 06 44	160	0,6 - 10	170	1

2-component Water pump pliers DIN 8976

chrome vanadium steel, forged and annealed, curved jaws, gripping chuck hardened, self-locking nut, finger protection, with 2 component plastic handle with hand protection, chromium-plated



Art. No.	length	mm	weight	PU
21 05 84	240	25	440	1

2-component Pliers set

4-pieces



Art. No.	set	contents	weight	PU
22 01 28	4-pieces	1 combination pliers 180 mm 1 diagonal cutter 160 mm 1 long chain nose pliers 200 mm 1 wire stripping pliers 160 mm	800	1

2-component Pliers set

4-pieces



Art. No.	set	contents	weight	PU
22 01 29	4-pieces	1 combination pliers 180 mm 1 heavy duty diagonal cutter 180 mm 1 long chain nose pliers 200 mm 1 wire stripping pliers 160 mm	800	1



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Electronic End cutting nippers

box joint, narrow rounded head,
for wire up to 200 kp/mm²,
 black PCV-coated handle,
without cutting-facet, bright



Art. No.	length	weight	PU
21 02 04	120	75	1

Electronic Angled end cutters

box joint, narrow rounded head,
for wire up to 200 kp/mm²,
 black PCV-coated handle,
without cutting-facet, bright



Art. No.	length	weight	PU
21 02 06	120	75	1

Electronic Long flat-round nose pliers „Langbeck“, angled

box joint, C 45, oil-hardened, with double spring, dazzlefree,
 black PCV-coated handle, bright, 45° angled jaws



Art. No.	length	weight	PU
21 03 23	140	70	1

Electronic Long flat nose pliers „Langbeck“, angled

box joint, C 45, oil-hardened, black PCV-coated handle,
 bright, 45° angled jaws



Art. No.	length	weight	PU
21 03 25	140	70	1

Electronic Short chain nose pliers, angled

flat round jaws, black PCV-coated handle,
 bright, 45° angled jaws



Art. No.	length	weight	PU
21 03 27	115	60	1

Electronic Diagonal cutters

box joint, narrow rounded head, with wire clamp, prevents damaging of circuits,
 black PCV-coated handle,
for wire up to 200 kp/mm²,
without cutting-facet, bright

wire clamp



Art. No.	length	weight	PU
21 01 12	110	70	6

Electronic Diagonal cutters

box joint, narrow rounded head,
 black PCV-coated handle, **for copper wire**
without cutting-facet, bright



Art. No.	length	weight	PU
21 01 04	110	60	6
21 01 06	130	100	6

Electronic Diagonal cutters

box joint, **for copper wire** and specially usefull for difficult accessible regions,
 rounded head, **handles angled at 25°**, black PCV-coated handle,
without cutting-facet, bright



Art. No.	length	weight	PU
21 01 36	125	95	6

Electronic Diagonal cutters

box joint, narrow rounded head,
for wire up to 200 kp/mm²,
 black PCV-coated handle,
with cutting-facet, bright



Art. No.	length	weight	PU
21 01 07	110	60	6
21 01 08	130	100	6

Electronic Diagonal cutters

box joint, slim head, **for wire up to 140 kp/mm²**,
 black PCV-coated handle,
without cutting-facet, bright



Art. No.	length	weight	PU
21 01 11	110	60	6

Electronic Short flat nose pliers

box joint, short jaws
 black PCV-coated handle, bright



Art. No.	length	weight	PU
21 02 60	115	45	6

Electronic Short chain nose pliers

flat round jaws, black PCV-coated handle, bright



Art. No.	length	weight	PU
21 02 62	115	45	6

Electronic Short round nose pliers

box joint, C 45, oil-hardened, short jaws, with double spring, dazzlefree, black PCV-coated handle, bright



Art. No.	length	weight	PU
21 02 94	115	45	6

Electronic Long flat nose pliers „Langbeck“

box joint, C 45, oil-hardened, with double spring, dazzlefree, black PCV-coated handle, bright



Art. No.	length	weight	PU
21 03 20	140	80	6

Electronic Long flat-round nose pliers „Langbeck“

box joint, C 45, oil-hardened, with double spring, dazzlefree, black PCV-coated handle, bright



Art. No.	length	weight	PU
21 03 22	140	70	6

Electronic Long needle nose pliers

box-joint, long ovalpointed jaws, black PCV-coated handle, bright



Art. No.	length	weight	PU
21 03 24	140	70	6

Microelectronic-Side cutters

without cutting-facet, clearance angle: 50°, with clip, for soft wires up to 0,8 mm²



Art. No.	length	weight	PU
21 17 08	118	90	6

Microelectronic-Side cutters

without cutting-facet, clearance angle: 21°, with clip, for soft wires up to 1,3 mm²



Art. No.	length	weight	PU
21 17 20	132	90	6
21 17 22	158	105	6

Electronic set

bright, black PCV-coated, 9-pieces:

1 flat noise pliers 115 mm, 1 round noise pliers 115 mm, 1 chain noise pliers 115 mm, 1 front cutting nipper 115 mm, 1 front cutting nipper, angled 115 mm, 1 side cutter 115 mm, 1 tweezer bended 145 mm, 1 tweezer straight 145 mm, 1 mirror



Art. No.	set	weight	PU
21 04 46	9-pieces	795	1

Tweezers

special design for wafers, long, extra small blades, needle fine top ends, stainless steel, antimagnetism acid resistant.



Art. No.	length	weight	PU
21 10 80	130	14	1



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Grip pliers

one jaw straight, one jaw movable, forged of chrome vanadium, a real universal plier for gripping any kind of workpiece, flat round or square, with quick-release lever



Art. No.	length	mm	weight	PU
21 05 56	250	0 - 40	630	1

Grip pliers

jaws drop, forged of chrome vanadium, adjustable, quick-release lever, half-round jaws, with wire cutter



Art. No.	length	mm	weight	PU
21 05 62	250	0 - 40	560	1

Pipe wrenches

chrome vanadium steel, polished



Art. No.	for tubes	length	mm	weight	PU
21 05 92	1"	320	45	760	1
21 05 94	1 1/2"	435	59	1370	1
21 05 96	2"	560	76	2700	1

Tower pincers DIN 5242

black painted, polished head, C 45, oil-hardened, cutting edges induction hardened, for cable of 150 kp/mm² (N 1500)



Art. No.	length	weight	PU
21 02 30	220	340	6

Riveting pliers

made of aluminium-pressure casting, all inner parts made of special alloyed steel and hardened, with 4 exchangeable nozzles 2,4-3-4-5 mm, for blind rivets of aluminium-copper or steel



Art. No.	length	for rivets	weight	PU
21 07 70	250	2,4 - 3 - 4 - 5	480	1

Riveting tool set

in portable plastic box, consisting of 1 plier no. 21 07 70, 100 pieces of alu space rivets 4 mm Ø, short-middle-long, 2 twist drills and washers



Art. No.	length	weight	PU
21 07 76	250	1200	1

Sealing pliers

made of cast iron, punch exchangeable and hardened, bright nickel-plated



Art. No.	length	die-Ø	weight	PU
21 07 00	125	8	230	1
21 07 02	145	9	340	1
21 07 04	165	10	430	1

Dies for sealing pliers

loose dies



Art. No.	die-Ø	weight	PU
21 07 10	8	5	1
21 07 12	9	5	1
21 07 14	10	5	1

Engraving for sealing pliers

Special engraving on request

Art. No.	
21 07 31	up to 3 letters
21 07 32	every further letter
21 07 33	every border

Accessories

Tackle blocks, clamps, stocks and dies

Fish tapes, tools for plastering work

Seal wire, solder and soldering tools



Tackle blocks

made from steel, with turnable hooks, 2 blocks, rust protected finish, with 3 brass rolls



Art. No.	roll-Ø	rope-Ø	capacity kg	weight	PU
13 00 04	50	8	200	1820	1
13 00 06	60	10	250	1960	1

Hemp tackle block ropes

20 m long



Art. No.	rope-Ø	weight	PU
13 00 42	8	950	1
13 00 44	10	1330	1

Parallel rope tension clamps

for copper and steel cables and wires



Art. No.	for ropes		load kg	weight	PU
	mm ²	Ø			
13 00 64	6-35	3 - 8	1000	890	1
13 00 66	16-70	4-12	1400	1230	1
13 00 68	50-150	8-16	2500	1920	1

Steel stamp, figures (0 - 9) DIN 1451



Art. No.	length	AF	set	weight	PU
13 02 00	3	1/8	0 - 9	150	1
13 02 01	4	5/32	0 - 9	200	1
13 02 02	5	3/16	0 - 9	300	1
13 02 03	6	1/4	0 - 9	450	1
13 02 04	8	5/16	0 - 9	650	1
13 02 06	10	7/16	0 - 9	800	1

Steel stamp, letters (A - Z), DIN 1451



Art. No.	length	AF	set	weight	PU
13 02 08	3	1/8	A - Z	650	1
13 02 09	4	5/32	A - Z	650	1
13 02 10	5	3/16	A - Z	850	1
13 02 11	6	1/4	A - Z	1300	1
13 02 12	8	5/16	A - Z	1950	1
13 02 14	10	7/16	A - Z	2200	1

Complete stocks, metric thread



Art. No.	size	weight	PU
14 02 14	M 16, M 20, M 25	1850	1
14 02 16	M 20, M 25	1350	1
14 02 18	M 32, M 40	2850	1
14 02 20	M 50, M 63	3500	1

Dies, metric thread



Art. No.	size	weight	PU
14 02 22	M 16	175	1
14 02 24	M 20	165	1
14 02 26	M 25	145	1
14 02 28	M 32	130	1
14 02 30	M 40	130	1
14 02 32	M 50	125	1
14 02 34	M 63	170	1

Guides, metric



Art. No.	size	weight	PU
14 02 50	M 16	50	1
14 02 52	M 20	40	1
14 02 54	M 25	35	1
14 02 56	M 32	30	1
14 02 58	M 40	30	1
14 02 60	M 50	70	1
14 02 62	M 63	90	1

Wire brushes



Art. No.	length	weight	PU
15 00 02	300	130	6

Water brushes

real bristles, vulcanized, textile bound, bristles-Ø 24 mm, length of bristle 48 mm



Art. No.	weight	PU
15 00 04	30	12

Plaster cups

soft rubber



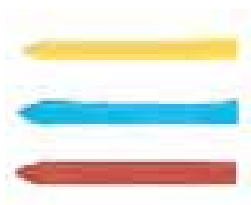
Art. No.	height	Ø	weight	PU
15 00 06	125	90	125	1

Carpenters' pencils



Art. No.	weight	PU
15 00 90	150	12

Marking chalk



Art. No.	colour	weight	PU
15 00 15 G	yellow	200	12
15 00 15 B	blue	200	12
15 00 15 R	red	200	12

Impact cord rollers

without chalk, cord length 15 m



Art. No.	weight	PU
15 00 16	255	6

Chalk

in plastic bottles, 250 g



Art. No.	colour	weight	PU
14 05 10	red	250	10
14 05 20	blue	250	10
14 05 30	yellow	250	10

Chalk

in bags



Art. No.	colour	weight	PU
15 00 18 G	yellow	50	12
15 00 18 R	red	50	12
15 00 18 B	blue	50	12
15 00 18 W	white	50	12

Paint scrapers

steel, polished blade, with oval wooden handle



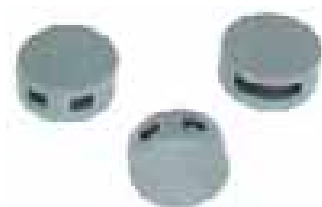
Art. No.	length	width	weight	PU
15 00 22	185	30	50	12
15 00 24	185	40	55	12
15 00 26	205	50	60	12
15 00 28	205	60	70	12

Lead seals



Art. No.	Ø	1 kg = approx. x piece	weight	PU
15 03 40	8	850	1000	1 kg
15 03 42	9	600	1000	1 kg
15 03 44	10	400	1000	1 kg
15 03 46	11	350	1000	1 kg
15 03 48	12	300	1000	1 kg

Plastic seals



Art. No.	Ø	weight	PU
15 03 43	9	200	1000
15 03 45	10	250	1000

Seal wire



Art. No.	thickness-Ø	weight real	length	weight	PU
15 03 60	0,5 x 0,5	0,5	115 m	520	1
15 03 62	0,5 x 0,5	1	230 m	1060	1
15 03 64	0,5 x 0,3	0,5	190 m	555	1
15 03 66	0,5 x 0,3	1	380 m	1040	1
15 03 68	0,3 x 0,3	0,5	300 m	500	1
15 03 70	0,3 x 0,3	1	600 m	1000	1

Plastic seal wire



Art. No.	colour	length	Ø	weight	PU
15 03 75 B	blue	100 m	1,23	200	1
15 03 75 G	green	100 m	1,23	200	1
15 03 75 R	red	100 m	1,23	200	1

Soldering irons

chrome nickel steel tube, with schuko safety plug, replaceable nickel- plated copper tips



Art. No.	volt	watt	soldering tip		weight	PU
			Ø	length		
16 01 42	220	60	5	265	240	1
16 01 44	220	80	7	315	300	1
16 01 46	220	100	7	320	300	1

Soldering irons

with plastic handle, with schuko safety plug, replaceable copper tips, nickel-plated



Art. No.	volt	watt	soldering tip		weight	PU
			Ø	length		
16 01 50	220	30	4	250	165	1

Soldering irons

soldering tip internally heated, chrome vanadium tube, with plastic handle, with schuko safety plug, replaceable nickel-plated copper tips, for electronic work



Art. No.	volt	watt	soldering tip		weight	PU
			Ø	length		
16 01 90	220	15	2,5 x 60	200	80	1

Soldering set

Contents:

- 1 Electric soldering Iron 80 Watt
- 1 Hobbyists' solder 1 m
- 1 Radio solder 1 m
- 1 Soldering grease 20 g



Art. No.	weight	PU
16 02 34	540	1

Solder in triangular sticks DIN 1707

length approx. 430 mm, approx. 250 g per stick, size: 11 x 11 x 11 x 430 mm



Art. No.	Sn %	weight	PU
16 01 12	30	250	1
16 01 14	40	250	1
16 01 16	60	250	1

Soldering stone



Art. No.	size	weight	PU
16 01 30	65 x 45 x 20	70	1

Soldering paste acc. to DIN 8511-F-SW 26

rosin halide-activated, field of application: electro-technic, electronics, manufacture of electrical appliances



Art. No.	weight	PU
16 00 90	50	24

Soldering fluid acc. to DIN 8511-F-SW 32

rosin halide-activated, field of application: electro-technic, electronics, manufacture of electrical appliances



Art. No.	ml	weight	PU
16 00 92	50	50	1

Grease for soft soldering acc. to DIN 8511-F-SW 21

ammonium chloride, organic preparation
field of application: general soldering work



Art. No.	ml	weight	PU
16 00 94	50	50	24
16 00 96	100	100	12

Soldering grease for fittings acc. to DIN 8511-F-W 22

field of application: sanitary technics, copper tubes etc.



Art. No.	ml	weight	PU
16 01 00	70	80	1

Soldering fluid acc. to DIN 8511-F-W 21

ammonium chloride, organic preparation
field of application: sanitary technics, copper tubes etc.



Art. No.	ml	weight	PU
16 01 02	50	65	1

Solder for electronic work acc. to DIN EN 29453

antimony-free, soldering flux acc. to DIN EN 29454, 1.1.2.B (F-SW 26),
S-Sn60Pb40, rosin halide-activated



Art. No.	Sn %	Ø	length	role weight	weight	PU
16 00 20	60	1		100	105	12
16 00 22	60	1		250	255	12
16 00 24	60	1		500	510	1
16 00 26	60	1		1000	1015	1
16 00 28	60	1,5	1 m		14	48
16 00 30	60	1,5		100	105	12
16 00 42	60	1,5		250	255	12
16 00 44	60	1,5		500	510	1
16 00 46	60	1,5		1000	1015	1
16 00 50	60	2		100	105	12
16 00 52	60	2		250	255	6
16 00 54	60	2		500	510	1

Solder for electronic work acc. to DIN EN 29453

antimony-free, soldering flux acc. to DIN EN 29454, 1.1.3.B (F-SW 32), rosin
halide-activated



Art. No.	Sn %	Ø	length	role weight	weight	PU
16 00 00	60	1	1 m		6	48
16 00 02	60	1		100	105	12
16 00 04	60	1		250	255	12
16 00 06	60	1		500	510	1
16 00 08	60	1		1000	1015	1
16 00 12	60	1,5		100	105	12
16 00 14	60	1,5		250	255	12
16 00 16	60	1,5		500	510	1
16 00 18	60	1,5		1000	1015	1

Solder for electronic work acc. to DIN EN 29453

antimony-free, soldering flux acc. to DIN EN 29454, 1.1.2.B (F-SW 26),
S-Pb60Sn40, rosin halide-activated



Art. No.	Sn %	Ø	role weight	weight	PU
16 00 60	40	2	100	105	12
16 00 62	40	2	250	255	12

Fittings' solder acc. to DIN EN 29453

low antimony content, soldering flux acc. to DIN EN 29454, 2.1.3.B (F-SW 24),
S-Pb60Sn40, ammonium chloride based, organically prepared



Art. No.	Sn %	Ø	length	role weight	weight	PU
16 00 70	40	1,5	1 m		16	48
16 00 72	40	2		100	105	12
16 00 74	40	2		250	255	12

Fittings' solder acc. to DIN 29453, solid

S-Pb50Sn50 low antimony content



Art. No.	Sn %	Ø	role weight	weight	PU
16 00 80	50	3	100	105	12
16 00 82	50	3	250	255	12

Chisels, Hammers

Files, rasps

Flat chisels to DIN 6453 A, flat oval shank

chrome vanadium air hardenend steel, golden varnishes



Art. No.	length	CW	Cth	weight	PU
18 00 08	200	28	23 x 13	365	5
18 00 10	250	28	23 x 13	470	5
18 00 12	300	32	26 x 13	680	5

Stone chisels, flat oval shank

chrome vanadium air hardenend steel, golden varnishes



Art. No.	length	CW	Cth	weight	PU
18 00 42	250	28	20 x 12	380	5
18 00 44	300	32	23 x 13	600	5

Stone chisels, octagonal shank

chrome vanadium air hardenend steel, golden varnishes



Art. No.	length	CW	Cth	weight	PU
18 00 62	250	28	16	390	5
18 00 64	300	30	18	530	5

Jointing chisels

chrome vanadium air hardenend steel, golden varnishes, for light works, the wide and flat cutting edge allows a quick working and avoid a breaking out of the wall



Art. No.	length	CW	Cth	weight	PU
18 00 76	250	26	26 x 7	230	10

Stone chisels, octagonal shank

chrome vanadium air hardenend steel, golden varnishes



Art. No.	length	Cth	weight	PU
18 00 82	250	14	280	5
18 00 84	300	16	420	5

Electricians' chisels

chrome vanadium air hardenend steel, golden varnishes, octagonal shank



Art. No.	length	CW	Cth	weight	PU
18 00 90	200	8	6 x 6	55	10
18 00 92	250	10	8 x 8	120	10
18 00 94	250	12	8 x 8	120	10
18 00 96	250	15	10 x 10	225	10

Rubber hand guards

total length 140 mm, max. Ø 90 mm, for chisels flat oval shank



Art. No.	size	mm	weight	PU
18 01 10	3	23 x 13	180	1

Centre punches to DIN 7250

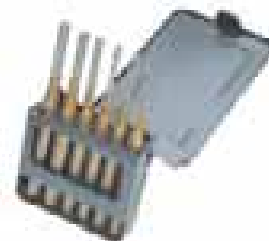
octagonal shank, chrome vanadium air hardenend steel, golden varnishes



Art. No.	length	shank-Ø	weight	PU
18 01 20	120	12	100	10

Pin punch set

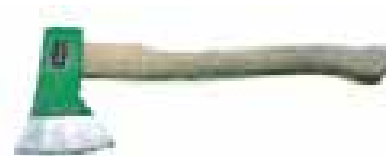
golden varnishes, in folding metal case



Art. No.	weight	PU
18 01 70	1 pc each 3 - 4 - 5 - 6 - 8 - 10 mm	760 1

Household hatchets

varnished and polished cutting edge, DIN 5131



Art. No.	weight	PU
18 01 73	600	1

Engineers' hammers DIN 1041

with polished grooved ash-handle, with steel handle protection



Art. No.	head weight	weight	PU
18 01 80	100	170	6
18 01 82	200	280	6
18 01 84	300	400	6
18 01 86	400	505	6
18 01 88	500	615	6

Engineers' hammers DIN 1041

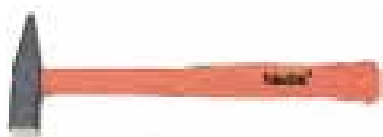
with steel pipe handle and rubber grip



Art. No.	head weight	weight	PU
18 02 00	300	625	6
18 02 02	500	845	6

Engineers' hammers DIN 1041

with red ultramid handle, low vibration



Art. No.	head weight	weight	PU
18 02 32	300	390	6

Engineers' hammers

english pattern, ball pein



Art. No.	head weight	weight	PU
18 02 74	3/4 lbs.	340	6
18 02 76	1 lbs.	450	6

Double faced sledges to DIN 6475

with steel pipe handle and rubber grip



Art. No.	head weight	weight	PU
18 02 90	1000	1290	6
18 02 92	1250	1500	6

Sledge hammers to DIN 6475

with polished ash handle, with steel handle protection



Art. No.	head weight	weight	PU
18 03 00	1000	1080	6
18 03 02	1250	1380	6

Plastic hammers

with replaceable celluloid striking faces and ash handle



Art. No.	head weight	weight	PU
18 03 34	32	340	6

Hammer handles to DIN 5111 B

ash wood, black varnishes



Art. No.	for engineers' hammers	weight	PU
18 03 72	200	52	10
18 03 74	300	80	10
18 03 78	500	125	10

Sledge handles to DIN 5135 A

ash wood, black varnishes



Art. No.	for sledge hammers	weight	PU
18 03 90	1000	115	10
18 03 92	1250	115	10

Firmer chisels DIN 5139

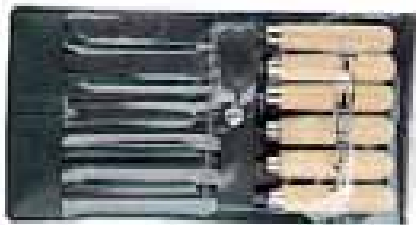
with bevelled edges and polished wood handle and cutting edge protector



Art. No.	lob	CW	length	weight	PU
18 04 64	150	14	280	120	6
18 04 66	150	16	280	135	6
18 04 68	150	18	280	150	6
18 04 70	150	20	280	160	6
18 04 74	150	24	280	185	6

Warding files DIN 7283

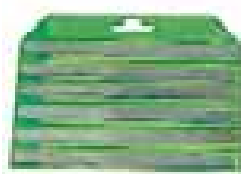
Set: 6 files with wooden handle, section A, B, C, D, E, F
in plastic wallet



Art. No.	length	set	weight	PU
19 01 20	100	6-pieces	125	10

Contact files

Set: 6 files in plastic wallet



Art. No.	length	set	weight	PU
19 01 26	130	6-pieces	60	10

Files assortment

5 files in plastic wallet, files with plastic handle

round
square
flat
half round
triangular



Art. No.			set	weight	PU
19 01 30	bastard cut 1	each piece 200 mm	5-pieces	775	1
19 01 32	smooth cut 3	each piece 200 mm	5-pieces	775	1

Knives

Tube cutters
Saws, saw blades



Cable stripping or lead tube knives

with wooden handle



Art. No.	type	weight	PU
20 00 08	1 blade	45	12

Cable stripping knives

solid handle, shock-proof synthetic, blade with straight and rounded scraper



Art. No.	type	weight	PU
20 00 10	1 blade	70	12

Cable stripping knives

with black plastic scales, stainless blade with scraper



Art. No.	type	weight	PU
20 00 11	1 blade	100	12

Cable stripping knives

with wooden scales, blade with scraper



Art. No.	type	weight	PU
20 00 12	1 blade	80	12

Cable stripping knives

with wooden scales, blade and reamer



Art. No.	type	weight	PU
20 00 14	2 blades	75	12

Cable stripping knives

with wooden scales, blade, reamer and screwdriver



Art. No.	type	weight	PU
20 00 16	3 blades	80	12

Cable stripping knives

with plastic scales, 2 blade, reamer and screwdriver



Art. No.	type	weight	PU
20 00 18	4 blades	90	12

Utility knives

manufactured from zinc di-cast, with 4 straight blades and 1 hook blade



Art. No.	length	weight	PU
20 00 26	145	100	10
20 00 28	spare blades	hook form	10
20 00 30	spare blades	straight form	10

Utility knives with spare blades

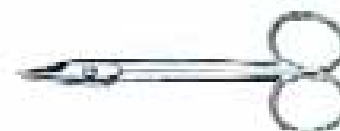
Cutting of plastic, wallpaper, cardboards, leather, plywood, carpets, with automatic blades locking, to 8 kg of pressure load, reserve blade in the handle



Art. No.	weight	PU
20 00 27	80	12
20 00 32	spare blades	10

Crown scissors

bright nickel-plated, with serrated cutting edge, for very thin wires



Art. No.	length	weight	PU
20 00 58	115	25	12

Hole cutting tin snips

with polished blade, carbon steel, right hand cutting



Art. No.	length	colour	weight	PU
20 01 40	250	green	520	5

Curve and figure tin snips

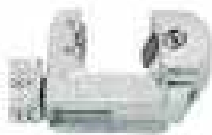
with polished blade, right hand cutting, carbon steel HRC52 - 58



Art. No.	length	colour	weight	PU
20 01 54	260	green	455	5

Small tube cutters

with 1 cutting wheel and dual roller guides



Art. No.	tube-Ø	Ø	weight	PU
20 01 90	3 - 16	1/8" - 5/8"	100	1
20 01 92	loose spare wheels	3 - 16	5	10

Tube cutters

with 1 cutting wheel and dual roller guides, retractable burr remover



Art. No.	length	tube-Ø	Ø	weight	PU
20 01 94	170	3 - 35	1/8" - 1 3/8"	415	1
20 01 96	loose spare wheels	3 - 35	1/8" - 1 3/8"	5	10

Junior hacksaws

strong frame, nickel-plated



Art. No.	span capacity	weight	PU
20 02 80	150 mm	140	6

Junior hacksaws DIN 6473 C

with hacksaws blade for metal



Art. No.	span capacity	weight	PU
20 02 84	150 mm	80	6

Junior hacksaws

heavy type, with pistol type handle and hacksaw blade for metal



Art. No.	span capacity	weight	PU
20 02 85	150 mm	200	6

Hand saws „PUK“

with hacksaws blade for metal, with fixed, varnished wooden handle



Art. No.	span capacity	weight	PU
20 02 90	150 mm	90	6

Hand saws „PUK“

with adjustable, varnished wooden handle, in plastic bag



Art. No.	span capacity	weight	PU
20 02 92	150 mm	110	12

Hacksaws „PUK“

DIN 6494C

for art. no. 20 02 92, 20 02 80, 20 02 90, 20 02 84, 22 02 85, 11 05 58



Art. No.	material	weight	PU
20 02 86	for wood	2	144
20 02 88	for metal	2	144

Standard tools

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Hacksaws frames to DIN 6473 A

heavy duty type, varnished, with captivated tensions pins



Art. No.	span capacity	MS	weight	PU
20 03 00	300	18 x 8	780	6

Hacksaws frames

steel pipe with flat oval section, bright chrome-plated, tension bolt made from steel



Art. No.	span capacity	MS	weight	PU
20 03 04	300	20 x 8	500	6

Hacksaws blades to DIN 6494

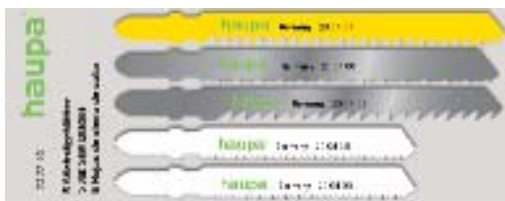
type A, single sided blade HSS-Bi-metal



Art. No.	material	size	no.of te.	weight	PU
20 03 10	HSS-Bi-metal	300 x 13 x 0,63	24	20	50

Jig saw blades

Card with 5 jig saw blades, 3x wood, 2x metal



Art. No.	weight	PU
20 04 01	225	1

Jig saw blades

for wood, plastic, 2,5 mm tooth pitch, blade conically ground, teeth diagonally sharpened



Art. No.	weight	PU
20 04 00	225	5-card

Jig saw blades

for wood, plastic, 4 mm tooth pitch, blade conically ground, teeth diagonally sharpened



Art. No.	weight	PU
20 04 02	225	5-card

Jig saw blades

for wood, plastic, 3 mm tooth pitch, side set teeth



Art. No.	weight	PU
20 04 04	225	5-card

Jig saw blades

Curved saw blade for wood, 4 mm tooth pitch, side set teeth, teeth diagonally sharpened



Art. No.	weight	PU
20 04 12	225	5-card

Jig saw blades

for metal, HSS, wavy set teeth, 1,2 mm tooth pitch, for steel and sheet metals



Art. No.	weight	PU
20 04 18	350	5-card

Jig saw blades

for metal, bi-metal, long blade life, wavy set teeth, 1,2 mm tooth pitch, for steel and sheet metals



Art. No.	weight	PU
20 04 03	350	5-card

Jig saw blades

for metal, HSS, wavy set teeth, 2 mm tooth pitch, for steel and sheet metals



Art. No.	weight	PU
20 04 05	350	5-card

Tool cases

Hard top tool cases, Leather tool cases



Metal tool boxes

5 compartments, complete black powder coating



Art. No.	length	width	height	weight	PU
22 00 80	430	215	200	4700	1
22 00 82	530	215	200	5720	1

Assortement boxes

sheet steel, complete black powder coating



Art. No.	length	width	height	compart.	weight	PU
22 00 90	366	230	51	20	2400	1
22 00 91	350	170	46	5	2200	1
22 00 92	370	160	40	9	2300	1
22 00 93	400	250	50	13	2500	1

Tool wallets

of black linen, with leather strap fastening



Art. No.	length	width	compart.	weight	PU
22 00 06	600	310	18	320	1

Belt bag

made of sturdy cowhide leather, with 4 compartments and belt loops



Art. No.	length	width	compart.	weight	PU
22 33 46	250	150	4	144	1

width.....in mm
weight.....weight in Gramm
length.....total length in mm

height.....in mm
length.....in mm
PU.....packing unit in pieces

Tool case „Tradition“ and „Fan“

made of black leather, with 2 inside loops and 2 snap-locks



Art. No.	length	width	height	weight	PU
22 00 22 Tradition	370	120	190	940	1
22 00 24 Fan	420	170	230	1890	1

Tool case „Favorit - Admiral - Profi“

made of black leather, with galvanized floor-onset of sheet-metal collapsable front, with locks, side-, front-, rear-parts as well as bottom and cover reinforced, inside with tool-compartments and adjustable loops, without carrying belts



Art. No.	length	width	height	weight	PU
22 00 60 Favorit	385	170	285	2250	1
22 00 64 Admiral	485	170	330	2850	1
22 00 66 Profi	430	170	270	2780	1

Tool case „Achat“

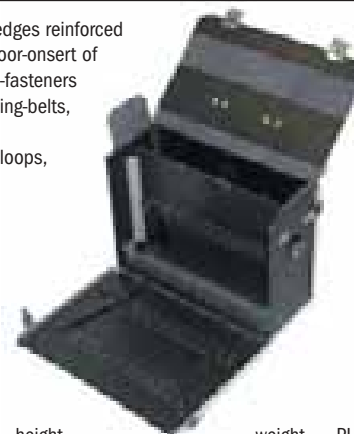
made of black leather, all outside edges reinforced with Alu-squares, with galvanized floor-onset of sheet-metal collapsable front, snap-fasteners riveted on side, side-loops for carrying-belts, 2 snap-locks, all 4 inside with tool-compartments and adjustable loops, without carrying belts



Art. No.	length	width	height	weight	PU
22 00 52	440	180	340	3200	1

Tool case „Comet“

made of black leather, all outside edges reinforced with Alu-squares, with galvanized floor-onset of sheet-metal collapsable front, snap-fasteners riveted on side, side-loops for carrying-belts, 2 snap-locks, all 4 inside with tool-compartments and adjustable loops, without carrying belts



Art. No.	length	width	height	weight	PU
22 00 70	430	180	320	4200	1

Tool case „Novelle 1“

Tool case for electrical contractor, made of black neat's, leather, with 26 tools. Case 22 00 66 (430 x 170 x 270 mm)

Contents:

- 3 Electrician's screwdrivers 75, 125, 150 mm
- 2 Eng. screwdrivers 100, 150 mm
- 2 Cross slotted screwdrivers PH size1 and PH size2
- 2 Cross slotted screwdrivers PZ size1 and PZ size2
- Piercing awls
- Voltage tester 150 - 250 V
- Voltage tester Elektro-check
- Wire stripping pliers 0,5 - 4 mm²
- Paint scraper 50 mm
- Engineers' hammer 300 g
- Cable knife 1 pieces
- Knife 8 - 28 mm
- Universal scissors 190 mm
- PUK junior saw
- 2C combination pliers 185 mm
- 2C diagonal cutter 135 mm
- 2C heavy duty diagonal cutter 175 mm
- 2C telephone pliers 200 mm
- 2C telephone pliers, bent 200 mm
- 2C water pump pliers 240 mm
- 2K-Wire stripping pliers, chromium-plated



Art. No.	set	length	width	height	weight	PU
22 01 52/1	26-pieces	430	170	270	6410	1

Tool case „Alpha“

Tool case made from black neat's leather, equipped with 20 tools.

Case 22 00 60 (385 x 170 x 285 mm). Contents:

- 2C combination pliers 185 mm
- 2C diagonal cutter 165 mm
- 2C telephone pliers 200 mm
- 5 VDE elekt.-screwdrivers EN 60900 2,5 x 75, 3 x 100, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2 VDE cross slotted screwdrivers EN 60900, PH size 1 and PH size 2
- Voltage tester VDE/GS
- Wire stripping pliers 0,5 - 4 mm²
- Black Line cable knife 8 - 28 mm ø
- Cable knife 1-pieces
- PUK pocket saw
- Electricians' chisel 10 x 250 mm
- Stone chisel 250 mm
- Engineers' hammer 300 g
- Measuring Tape 2 m
- Cabinet Level 250 m



Art. No.	set	length	width	height	weight	PU
22 01 69	20-pieces	385	170	285	6410	1

Tool case „Start“

Tool case for apprentices, made from black cow hide equipped with 21 tools, case 22 00 60 (385 x 170 x 285 mm).

Contents:

- 2C telephone pliers 170 mm
- 2C combination pliers 185 mm
- 2C diagonal cutter 165 mm
- 2C wire stripping pliers 165 mm
- 5 VDE electrician's screwdrivers 2,5 x 75 mm 3 x 100, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- VDE cross slotted screwdrivers, size 1
- VDE cross slotted screwdrivers, size 2
- Cable knife, 1-pieces
- PUK pocket saw
- 1 Brush
- 1 Electricians' chisel 10 x 250 mm
- 1 Voltage tester - blade 50 mm
- 1 Stone chisel 300 mm
- 1 Engineers' hammer 300 g
- 1 Double-face sledge hammer 1000 g
- 1 Spatula 40 mm
- 1 Plaster container



Art. No.	set	length	width	height	weight	PU
22 01 68	21-pieces	385	170	285	6430	1

HAUPA „Tool bag“

Tool bag with inner and outer tool compartments, rubber-reinforced base.

Comes complete with 23 tools.

Features:

Waterproof and dirt resistant, rubber-reinforced base, double cross-seam for heavy loads, removable shoulder strap, adjustable, 10 compartments outside (various sizes), 10 compartments inside (various sizes), belt for spirit level (outside), material: extra strong 600D polyester, size: 32 x 19 x 28 cm (L x W x H), colour: green, black

- 2C combination pliers 200 mm
- 2C diagonal cutter 165 mm
- 2C chain-nose cutting pliers straight
- 2C wire stripping pliers 165 mm
- VDE-screwdriver set EN 60900, 7 electrician's screwdrivers
- Voltage tester
- Wire stripper with hooked blade
- Water brush
- Paint scraper 40 mm
- Electrician's chisel 10 x 250 mm
- Stone chisel 300 mm
- Engineers' hammer 300 g
- Double-face lump hammer 1000 g
- Plaster container
- Cable knife 1-pieces
- PUK junior saw with rigid handle
- Carpenter's pencil



Art. No.	set	length	width	height	weight	PU
22 05 00	23-pieces	320	190	280	6430	1

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Tool case „Saphir“

Tool case for electrical contractor, made of green neat's leather, with 33 tools. Case 22 00 70 (430 x 180 x 320 mm) Contents:

• 2C round nose plier	175 mm
• 2C telephone pliers	200 mm
• 2C combination pliers	185 mm
• 2C diagonal cutter	150 mm
• 2C wire stripping pliers	165 mm
• Electronic side cutter	110 mm
• 2C water pump pliers	240 mm
• 4 Electrician's screwdrivers	75, 100, 125, 150 mm, insulated
• 3 Eng. screwdrivers	125, 150, 175 mm, insulated
• 4 Cross slotted screwdrivers	PH size 1, PH size 2, PZ size 1, PZ size 2
• 4 Electronic side cutter	5,5/12/13/17 mm
• Piercing awls	round
• Allen key set	SW 2 - SW 10
• Voltage tester	150 - 250 Volt
• Electronic screwdriver	150 mm
• Engineers' hammer	300 g
• Cable knife	8 - 28 mm
• Cable knife	1-pieces
• Universal scissors	190 mm
• Cable shears for coax cable	
• PUK pocket saw	
• Rule	2 m



Art. No.	set	length	width	height	weight	PU
22 01 54	33-pieces	430	180	320	7410	1

Brass pad locks

body made from a solid brass block, hardened steel shackle, with 2 keys



Art. No.	size	weight	PU
22 01 10	30	110	10
22 01 12	40	170	10

Carrying belts

of green leather, 2 spring hooks



Art. No.	weight	PU
22 00 54	120	1

width.....in mm
weight.....weight in Gramm
length.....total length in mm
height.....in mm
length.....in mm
PU.....packing unit in pieces

Tool case „Phoenix“

Tool case for electrical contractor, made of black neat's leather, with 44 tools. Case 22 00 70 (430 x 180 x 320 mm) Contents:

• 2C round nose plier	175 mm
• 2C telephone pliers	200 mm
• 2C combination pliers	185 mm
• 2C diagonal cutter	150 mm
• 2C wire stripping pliers	165 mm
• Electronic side cutter	110 mm
• Electronic pliers	140 mm
• 2C water pump pliers	240 mm
• Crimping pliers	1,5 - 6 mm ²
• Tweezer	130 mm
• 4 Electrician's screwdrivers	75, 125, 150, 175 mm, insulated
• 3 Eng. screwdrivers	100, 125, 150 mm, insulated
• 4 Cross slotted screwdrivers	PH size 1, PH size 2, PZ size 1, PZ size 2
• Eng. screwdriver	75 mm
• 4 Electronic side cutter	5,5/12/14/17 mm
• Piercing awls	round
• Allen key set	SW 2 - SW 10
• Voltage tester	150 - 250 Volt
• Electronic screwdriver	150 mm
• Electronic screwdriver	size 1
• C.t. wrench	310 mm
• Cable knife	8 - 28 mm
• Cable knife	3-pieces
• Universalmesser	
• Universal scissors	190 mm
• Cable cutter for coax	
• PUK pocket saw	fester Griff
• Elektrikermeißel	10 x 250 mm
• Engineers' hammer	300 g
• Rule	2 m
• Level	400 mm



Art. No.	set	length	width	height	weight	PU
22 01 56	42-pieces	430	180	320	8250	1

Tool cases „Tool bag“

Tool bag with inner and outer tool compartments, rubber-reinforced base. Waterproof and dirt resistant, rubber-reinforced base, double cross-seam for heavy loads, removable shoulder strap, adjustable, 10 compartments outside (various sizes), 10 compartments inside (various sizes), belt for spirit level (outside), material: extra strong 600D polyester, size: 32 x 19 x 28 cm (L x W x H), colour: green, black



Art. No.	length	width	height	weight	PU
22 00 61	320	190	280	5000	1

HAUPA Belt bag "Tool belt"

8 compartments for your tools, reinforced main compartment, steel rivets for high reliable quality. Big front compartment for nails or measurement tape, hammer sleeve, fits up to 135 cm hips, material: extra strong 600D polyester, size: 20 x 10 x 30 cm (L x B x H), colour: green, black



Art. No.	length	width	height	weight	PU
22 01 05	200	100	300	1500	1

HAUPA "Big Box"

very big box look alike Tool bag, easy approach to the tools, inside and outside compartments for tools, reinforced handles, material: extra strong 600D polyester, size: 40 x 24,5 x 23 cm (L x B x H), colour: green, black



Art. No.	length	width	height	weight	PU
22 00 95	400	245	230	5000	1

Tool case „Aktion“

2 tool kits (one with document pocket), Ground bowl with variables to pdividing bars



Art. No.	length	width	height	weight	PU
22 00 38	460	160	310	5500	1

Tool case „Omega“

rigid case, black, 28 compartments, 1 combination lock, 1 separation for documents, 2 plate for tools, 2 lockable locks, Ground bowl with variables to pdividing bars, running around push border



Art. No.	length	width	height	weight	PU
22 00 68	460	180	310	5500	1

Tool case „Merkur“

rigid case, made of ABS-plastic material, black, empty, excellent rib-profile on the outside, high-quality locks, inside with separation for documents, 2 plates with compartments for several tools, 1 tray of ABS-plastics with separations for individual divisions. Inside Measurement: 460 x 180 x 310 mm



Art. No.	length	width	height	weight	PU
22 00 34	460	180	310	5500	1

Tool case „Rolly“

rigid case, made of ABS-plastic material, black, integrated rolls and pull-out handle in the bottom, locks of alu-press-casting, empty inside: 1 separation for documents, 1 plate for tools, 1 cover-plate with pocket compartments and clip-compartment, 1 bottom-tray



Art. No.	length	width	height	weight	PU
22 00 36	485	380	220	4950	1

Network service case HAUPA

Hard-top case, black, for electricians and network technicians, 2 tool kits (one with document pocket), bottom half of case contains 8 small removable boxes, secured for transport purposes Internal dimensions: 460 x 140 x 310



Art. No.	length	width	height	weight	PU
22 00 73	460	160	310	5500	1

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Tool case „Inspektor“

rigid case, black, Master's case with 25 tools.
Case 22 00 68 (460 x 180 x 310 mm). Contents:

- 3 Electrician's screwdrivers 75, 125, 150 mm
- 2 Eng. screwdrivers 100 und 150 mm
- 2 Cross slotted screwdrivers size1 und size2
- Piercing awls kantige Klinge
- Voltage tester 150 - 250 V
- C.t. wrench 160 mm
- Paint scraper 50 mm
- Electricians' Chisel 10 x 250 mm
- Engineers' hammer 300 g
- Cable knife 1-pieces
- Knife 8 - 28 mm
- Universal scissors 190 mm
- PUK junior saw
- 2C combination pliers 180 mm
- 2C heavy duty diagonal cutter 180 mm
- 2C telephone pliers 200 mm
- 2C telephone pliers, bent 200 mm
- 2C water pump pliers
- 2C wire stripping pliers
- Rule 2 m
- Alu level 400 mm



Art. No.	set	length	width	height	weight	PU
22 01 76	25-pieces	460	180	310	9170	1

Network-Servicecase

Hard-top case, black, for electricians and network technicians, 2 tool kits (one with document pocket), bottom half of case contains 8 small removable boxes, secured for transport purposes. Internal dimensions: 460 x 140 x 310 mm
Case 22 00 73 (25 pieces). Contents:

- 3 Electronics screwdriver's 60 x 2,0, 60 x 2,5, 60 x 3,0 mm
- 2 Electronics cross slotted screwdrivers Ph size 00 and size Ph 0
- 3 Black Line electrician's screwdrivers 75 x 3, 100 x 4 and 150 x 5 mm
- 3 Black Line cross slotted screwdrivers Ph size 0, 1 and 2
- 2C telephone pliers 170 mm
- 2C telephone pliers, bent 200 mm
- crimping pliers for unshielded modular plugs
- pressing pliers for RG 58-59-62-6 coaxial connectors
- universal switch cabinet spanner (metal)
- electronics side-cutting pliers for wire diameters up to 1.3 mm²
- 2C diagonal cutter 165 mm
- Universal scissors 190 mm
- PC strip AWG 6 - 26
- Precision strip AWG 20 - 30
- Stripper for coax cable
- Sensor tool LSA Plus
- PUK junior
- Voltage tester 100 - 250 V



Art. No.	set	length	width	height	weight	PU
22 01 41	25-pieces	460	160	310	8800	1

Network service case „Connect“

The perfect Starter package for data and network. Hart-top case, black, 2 tool kits, bottom half of case contains removeable boxes, 13 tools.
Case 22 00 38 (460 x 160 x 310 mm).

Contents:

- 2C electrician's screwdrivers 75 x 2,5 mm
- 2C electrician's screwdrivers 100 x 3,0 mm
- 2C electrician's screwdrivers 125 x 4,0 mm
- 2C cross slotted screwdrivers size 1 - insulated
- 2C cross slotted screwdrivers size 2 - insulated
- Electricians scissors, bright nickel-plated, 130mm
- Strippers for UTP-/STP-datacable
- 2C diagonal cutter 160 mm
- 2C telephone pliers, bent 200 mm
- Crimping pliers for unshielded modular plugs 6-pole
- Crimping pliers for unshielded modular plugs 8-pole
- Elektronic-side cutting pliers
- Sensor tool LSA Plus



Art. No.	set	length	width	height	weight	PU
22 01 50	13-pieces	460	160	310	7800	1

Tool case „Basic“

Hard-top case, black, 2 tool kits (one with document pocket), bottom half of case equipped with variable partitions, 19 tools.

Case 22 00 38 (460 x 160 x 310 mm) Contents:

- 5 VDE electrician's screwdrivers EN 60900 2,5 x 75, 3 x 100, 4 x 100, 5,5 x 125 und 6,5 x 150 mm
- 2 VDE cross slotted screwdrivers EN 60900 PH size 1 and PH size 2
- 2C combination pliers 185 mm
- 2C diagonal cutter 165 mm
- 2C telephone pliers 200 mm
- 2C wire stripping pliers 165 mm
- Black Line cable knife 8 - 28 mm Ø
- Cable knife 1-pieces
- Engineers' hammer 300 g
- PUK pocket saw
- Electricians' chisel 10 x 250 mm
- Voltage tester blade 50 mm
- Measuring stick 2 m
- Paint scraper 40 mm



Art. No.	set	length	width	height	weight	PU
22 01 53	19-pieces	460	160	310	8600	1

Tool case „Akkurat“

Master's case for radio and television, with 34 tools, rigid case.

Case 22 00 68 (460 x 180 x 310 mm) Contents:

- 2 Pliers form B and form C
- 2 x 2C telephone pliers straight and bent
- 2C combination pliers 180 mm
- 2C diagonal cutter 160 mm
- 2C wire stripping pliers 160 mm
- Electronic side cutter 110 mm
- Electronic front cutter 140 mm
- Electronic round nose pliers 115 mm
- Tweezer, straight 130 mm
- Tweezer, flat 145 mm
- Eng. screwdrivers 150 mm
- 2 x Cross slotted screwdrivers PH size 1 and PH size 2
- 5 x Electrician's screwdrivers 75 mm (2 x), 100 mm, 125 mm, 150 mm
- 4 x Nut drivers 3,5 mm, 4,0 mm, 5,0 mm, 6,0 mm
- Piercing awls round
- Voltage tester 50-250 Volt
- Checking mirror 210 mm
- Claw holder size 525
- Watchmaker's screwdriver
- Spanner 175 mm
- Universal scissors 190 mm
- Crown scissors 115 mm
- Solder 100g
- Contact file set



Art. No.	set	length	width	height	weight	PU
22 01 79	34-pieces	460	180	310	9980	1

Tool case "2 Component"

Hard-top case, for apprentices, black, 2 tool kits, one with document pocket, cover-plate with pocket compartments and clip-compartment, 18 tools.

Case 22 00 38 (460 x 160 x 310 mm)

- 2C telephone pliers, straight 200 mm
- 2C combination pliers 180 mm
- 2C heavy duty diagonal cutter 180 mm
- 2C wire stripping pliers 160 mm
- 4 x 2C electrician's screwdrivers 2,5 x 75 mm, 3 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm
- 2 x 2C cross slotted screwdrivers, size 1/size 2
- Cable knife, 1-pieces
- Knife, 8 - 28 mm, standard
- PUK pocket saw
- Paint scraper 40 mm
- Electricians' Chisel 10 x 250 mm
- Voltage tester 220 - 250 Volt
- Engineers' hammer 300 g
- Rule 2 m



Art. No.	set	length	width	height	weight	PU
22 01 70	18-pieces	460	160	310	7800	1

Tool case „Diamant“

Master's case for domestic appliances, with 24 tools, rigid case, black.

Case 22 00 68 (460 x 180 x 310 mm) Contents:

- 2C flat nose pliers, Langbeck 160 mm
- 2C round nose pliers 160 mm
- 2C telephone pliers, bent 200 mm
- 2C combination pliers 160 mm
- 2C diagonal cutter 140 mm
- HAUPA-Wire stripping pliers 0,5 - 4 mm²
- Electronic side cutter 110 mm
- 2C water pump pliers 240 mm
- Crimping pliers 1,5 - 6 mm²
- 2 x Eng. screwdrivers 100 mm / 150 mm
- 2 x Cross slotted screwdrivers PH size 1 / PH size 2
- 2 x Electrician's screwdrivers 100 mm / 150 mm
- Allen key set, 8-pieces SW 2,5 - 10 mm
- Voltage tester 150 - 250 V
- Socket set 33-pieces
- Universal cable knife
- Cable knife
- Universal scissors
- Junior saw PUK
- Engineers' hammer 300 g
- Solder 100 g



Art. No.	set	length	width	height	weight	PU
22 01 92	24-pieces	460	180	310	14200	1



haupa®

...because quality matters

The ideal tool assortment

rigid case for electromaster, with 36 tools.

Case 22 00 68 (460 x 180 x 310 mm) Contents:

- 4 x Electrician's screwdrivers 60, 75, 125, 150 mm
- 2 x Eng. screwdrivers 100, 150 mm
- 3 x Cross slotted screwdrivers PH size 0, PH size 1, PH size 2
- Eng. screwdriver 125 mm
- Claw holder size 165
- Watchmaker's screwdriver
- Piercing awls
- 3 x Nut drivers 7 - 8 and 10 mm
- Voltage tester 150 - 250 Volt
- Checking mirror size 210
- Socket set 33-pieces
- Electronic solder 100 g
- Contact soldering iron 30 Watt
- Engineers' hammer 300 g
- Cable knife 1-pieces
- Crown shear 115 mm
- Universal scissors 140 mm
- Junior saw heavy
- 2C combination pliers 180 mm
- 2 x 2C diagonal cutter 140 mm / 160 mm
- Pliers 115 mm
- 2 x 2C telephone pliers 160 mm / 200 mm
- 2 x 2C water pump pliers insulated
- Wire stripping pliers 0,5 - 4 mm
- Tweezer bent 120 mm
- Tweezer straight 115 mm



Art. No.	set	length	width	height	weight	PU
22 01 77	36-pieces	460	180	310	9980	1

Tool case „Merkur Plus“

rigid case, black, Master's case with 25 tools.

Case 22 00 34 (460 x 180 x 310 mm). Contents:

- 3 x Electrician's screwdrivers 75, 125, 150 mm
- 2 x Eng. screwdrivers 100, 150 mm
- 2 x Cross slotted screwdrivers PH size 1 and PH size 2
- Universal scissors 190 mm
- Cable knife 1-pieces
- Knife 8 - 28 mm
- 2C combination pliers 180 mm
- 2C heavy duty diagonal cutter 180 mm
- 2C telephone pliers 200 mm
- 2C telephone pliers, bent 200 mm
- 2C water pump pliers insulated
- 2C wire stripping pliers
- PUK junior saw
- Electricians' chisel 10 x 250 mm
- Rule 2 m
- Alu level 400 mm
- Piercing awls
- Voltage tester 150 - 250 V
- C.t. wrench 160 mm
- Engineers' hammer 300 g
- Paint scraper 50 mm



Art. No.	set	length	width	height	weight	PU
22 00 35	25-pieces	460	180	310	9980	1

Tool case „Panther“

Inside: 1 separation for documents, 2 plate for tools, 1 cover-plate with pocket compartments and clip-compartment

Case 22 00 38 (460 x 180 x 310 mm) Contents:

- 4 x Electrician's screwdrivers 75 x 3, 100 x 4, 125 x 4, 150 x 5 mm
- Eng. screwdrivers 100 x 6 mm
- 2 x Cross slotted screwdrivers PZ size 1 and PZ size 2
- 2C combination pliers 180 mm
- 2C heavy duty diagonal cutter 180 mm
- 2C telephone pliers 200 mm
- 2C wire stripping pliers
- Engineers' hammer 300 g
- Voltage tester
- 2-pole Voltage tester
- Spirit level for switch cupboard with magnet
- Spanner for switch-cabinets
- Slotter chisel
- Electrician's chisel
- Knife
- Junior hacksaw with pistol-type handle
- Black Line Cable knife



Art. No.	set	length	width	height	weight	PU
22 00 40	22-pieces	460	180	310	8900	1

You can find more tool cases in this catalogue in "Working under tension" from page 119.

Drilling tools

Measuring tools, Cutting blades
Lasersystems

Twist drills DIN 338/HSS type N

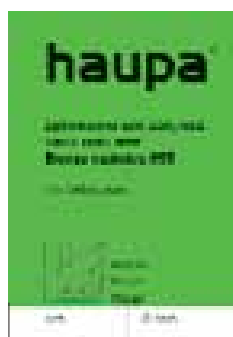
point angle 118°, spiral angle 25 - 35°, Ø-tolerance h 8, of HSS, for drilling of steel, steel-casting alloyed and unalloyed up to approx. 900 N/mm² strength grey- and tempered casting, sinter iron, newsilver, graphit, alu-alloy, bronze and brass

Packing units:

individual in bag/10 pc.

in carton PB and R:

- up to 10mm Ø in paper bags á 10 pcs
- from 10,2 mm Ø in paper bags á 5pcs



Art. No.	Ø	core-hole	length	tot. length	weight	PU
23 00 10	0,5		6	22	0,04	1
23 00 10/PB						
23 00 10/R						
23 00 20	1		12	34	0,2	1
23 00 20/PB						
23 00 20/R						
23 00 30	1,5		18	40	0,56	1
23 00 30/PB						
23 00 30/R						
23 00 32	1,6	M 2	20	43	0,7	1
23 00 32/PB						
23 00 32/R						
23 00 40	2		24	49	1,15	1
23 00 40/PB						
23 00 40/R						
23 00 50	2,5	M 3	30	57	2	1
23 00 50/PB						
23 00 50/R						
23 00 60	3		33	61	3	1
23 00 60/PB						
23 00 60/R						
23 00 64	3,2		36	65	4	1
23 00 64/PB						
23 00 64/R						
23 00 66	3,3	M 4	36	65	4	1
23 00 66/PB						
23 00 66/R						
23 00 70	3,5		39	70	4	1
23 00 70/PB						
23 00 70/R						
23 00 80	4		43	75	6	1
23 00 80/PB						
23 00 80/R						
23 00 84	4,2	M 5	43	75	7	1
23 00 84/PB						
23 00 84/R						
23 00 90	4,5		47	80	8	1
23 00 90/PB						
23 00 90/R						
23 01 00	5	M 6	52	86	10	1
23 01 00/PB						
23 01 00/R						
23 01 10	5,5		57	93	13	1
23 01 10/PB						
23 01 10/R						
23 01 20	6	M 7	57	93	16	1
23 01 20/PB						
23 01 20/R						
23 01 30	6,5		63	101	19	1
23 01 30/PB						
23 01 30/R						

Art. No.	Ø	core-hole	length	tot. length	weight	PU
23 01 36	6,8	M 8	69	101	22	1
23 01 36/PB						
23 01 36/R						
23 01 40	7		69	109	24	1
23 01 40/PB						
23 01 40/R						
23 01 60	8		75	117	32	1
23 01 60/PB						
23 01 60/R						
23 01 70	8,5	M 10	75	117	39	1
23 01 70/PB						
23 01 70/R						
23 01 80	9		81	125	46	1
23 01 80/PB						
23 01 80/R						
23 01 90	9,5		81	125	54	1
23 01 90/PB						
23 01 90/R						
23 02 00	10		87	133	62	1
23 02 00/PB						
23 02 00/R						
23 02 04	10,2	M 12	87	133	63	1
23 02 04/PB						
23 02 04/R						
23 02 10	10,5		87	133	70	1
23 02 10/PB						
23 02 10/R						
23 02 20	11				78	1
23 02 20/PB						
23 02 20/R						
23 02 30	11,5		94	142	86	1
23 02 30/PB						
23 02 30/R						
23 02 40	12	M 14	101	151	94	1
23 02 40/PB						
23 02 40/R						
23 02 44	12,5				107	1
23 02 44/PB						
23 02 44/R						
23 02 50	13		101	151	115	1
23 02 50/PB						
23 02 50/R						

Technical information:

industrial quality, dressed to size from solid material, high true tuning precision, long tool life, drills separate packet in plastic bags or as a set in a box.

/PB as beside, but packet in paper bags

/R: workshop quality, wheeled milled, drills packet in paper bag or as a set in a box

a-range...adjusting range

barin mm

CC-Øcutting capacity in mm²

cross sectionin mm²

CTh.....cutting thickness (mm)

CW.....cutting width in mm

height.....in mm

length.....in mm

loblength of blade mm

Mfor screws M

Øin mm

PU.....packing unit in pieces

sizein mm

sthsteel thickness in mm

ththickness in mm

th. of jaw.....thickness of jaw (mm)

tot. length.....in mm

weightin mm

Twist drills DIN 338/HSS type N

made from high power steel,
in metal pocket



smoothed

rollmilled

Art. No.	set	drill-Ø	rising	weight	PU
23 03 12	19	1 - 10	0,5	800	1
23 03 12/R	19	1 - 10	0,5	800	1
23 03 14	25	1 - 13	0,5	1500	1
23 03 14/R	25	1 - 13	0,5	1500	1

Bulk storage chest for twist drills

HSS, DIN 338, 170 pieces, TYP N, short, ground,
bright, with split point, TIN coated
Content: 1,0 - 10,0 mm (upstairs in 0,5 mm steps)
up to 8,0 mm 10 pieces/size
> 8,5 mm 5 pieces/size



Art. No.	set	PU
23 03 01/TIN	170-pieces	1

Drill bit sets DIN 338/HSS type N

made from high power steel, in plastic pocket



smoothed

rollmilled

Art. No.	set	drill-Ø	rising	weight	PU
23 03 02	19	1 - 10	0,5	420	1
23 03 02/R	19	1 - 10	0,5	420	1

Drill type machine bits for wood

made from carbon steel, concentrically ground, with centre point and front cutter



Art. No.	drill-Ø	length	weight	PU
23 06 16	3	70	3	10
23 06 18	4	80	5	10
23 06 20	5	90	8	10
23 06 22	6	100	15	10
23 06 26	8	120	30	10
23 06 28	9	130	40	10
23 06 30	10	137	50	10
23 06 32	11	150	65	10
23 06 34	12	155	80	10
23 06 36	13	170	85	10

Flat bits

with flat cutter head, square shank, DIN 6447 A



Art. No.	drill-Ø	shank	length	weight	PU
23 07 32	10	6	150	35	12
23 07 34	12	6	150	35	12
23 07 36	14	6	150	38	12
23 07 38	16	6	150	38	12
23 07 40	18	6	150	45	12
23 07 42	20	6	150	45	12
23 07 46	24	6	150	45	12

Masonry drills DIN 8039

carbide tipped, with straight shank, each piece in plastic pocket



Art. No.	Ø	length	cut. length	weight	PU
23 03 30	3	70	40	7	10
23 03 31	3,5	75	45	8	10
23 03 32	4	80	45	10	10
23 03 34	4,5	85	50	11	10
23 03 36	5	90	50	13	10
23 03 38	5,5	95	55	15	10
23 03 40	6	100	60	18	10
23 03 42	6,5	105	65	22	10
23 03 44	7	110	65	27	10
23 03 46	8	120	70	37	10
23 03 48	8,5	125	80	43	10
23 03 52	10	140	90	50	10
23 03 54	11	150	95	82	10
23 03 56	12	160	105	90	10
23 03 58	13	170	110	100	10
23 03 60	14	180	115	120	10
23 03 62	15	190	125	165	10
23 03 64	16	190	125	165	10

Masonry drills sets

carbide tipped in plastic pocket



Art. No.	set	drill-Ø	weight	PU
23 06 42	5-pieces	4 - 5 - 6 - 8 - 10	130	6

Masonry drills DIN 8039

carbide tipped, with straight shank, each piece in plastic pocket



Art. No.	Ø	length	cut. length	weight	PU
23 03 70	8	400	300	110	1
23 03 72	10	400	300	185	1
23 03 74	12	400	300	240	1
23 03 76	14	400	300	310	1
23 03 78	16	400	300	425	1
23 03 80	18	400	300	550	1
23 03 82	20	400	300	680	1

Masonry drills DIN 8039

carbide tipped, with straight shank, each piece in plastic pocket



Art. No.	Ø	length	cut. length	weight	PU
23 04 00	8	600	500	170	1
23 04 02	10	600	500	280	1
23 04 04	12	600	500	300	1
23 04 06	14	600	500	440	1
23 04 08	16	600	500	625	1
23 04 10	18	600	500	800	1
23 04 12	20	600	500	1025	1
23 04 14	22	600	500	1135	1

SDS hammer drill bits 10 mm Ø

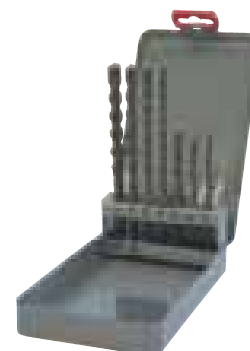
Top quality: SDS-Plus fast fitting system: 2 lengthwise slots and 2 round slots at the end of the shank. Universal tool fitting for different types of hammer drills according to the SDS-Plus system



Art. No.	drill-Ø	length	cut. length	weight	PU
23 04 30	5	110	50	42	1
23 04 31	5	160	100	365	1
23 04 32	5,5	110	50	45	1
23 04 33	5,5	160	100	365	1
23 04 34	6	110	50	46	1
23 04 36	6	160	100	52	1
23 04 38	6,5	110	50	40	1
23 04 38 B	6,5	160	100	365	1
23 04 40	7	110	60	48	1
23 04 38 A	7	160	100	50	1
23 04 42	8	110	50	52	1
23 04 42 A	8	160	100	50	1
23 04 44	8	210	150	71	1
23 04 44 A	8	460	400	365	1
23 04 48	10	160	100	68	1
23 04 50	10	210	145	108	1
23 04 50 A	10	260	150	100	1
23 04 51	10	460	400	155	1
23 04 78/1	10	600	540	365	1
23 04 52	11	260	75	70	1
23 04 54	12	160	100	77	1
23 04 53	12	210	540	365	1
23 04 56	12	260	200	115	1
23 04 57	12	460	400	250	1
23 04 59	12	600	550	315	1
23 04 58	13	160	85	90	1
23 04 60	14	160	100	110	1
23 04 60 A	14	260	200	250	1
23 04 61	14	460	400	300	1
23 04 67	14	615	550	365	1
23 04 62	15	160	100	365	1
23 04 64	16	210	150	195	1
23 04 66	16	450	400	355	1
23 04 73	16	600	550	450	1
23 04 70	18	200	150	240	1
23 04 75	18	450	400	420	1
23 04 74	20	200	150	240	1
23 04 74 A	20	300	240	365	1
23 03 95	20	460	400	365	1
23 03 96	20	600	550	600	1
23 03 97	22	450	400	550	1
23 03 98	25	450	400	750	1

SDS-Nut-hammer drill sets

7-pieces



Art. No.	Contents	weight	PU
23 04 79	5, 6, 8 x 110 6, 8, 10, 12 x 160	700	1

SDS hammer drill bits

Workshop quality: SDS-Plus fast fitting system: 2 lengthwise slots and 2 round slots at the end of the shank. Universal tool fitting for different types of hammer drills according to the SDS-Plus system..



Art. No.	drill-Ø	length	PU
23 09 00	5	110	1
23 09 02	5	160	1
23 09 04	5,5	110	1
23 09 06/1	5,5	160	1
23 09 08	6	110	1
23 09 10	6	160	1
23 09 12	6,5	110	1
23 09 14	6,5	160	1
23 09 16	7	110	1
23 09 18	7	160	1
23 09 20	8	110	1
23 09 22	8	160	1
23 09 24	8	210	1
23 09 26	10	160	1
23 09 28	10	210	1
23 09 30/1	10	260	1
23 09 32	10	450	1
23 09 34	10	600	1
23 09 36	11	260	1
23 09 38	12	160	1
23 09 40	12	210	1
23 09 42	12	310	1
23 09 44	12	450	1
23 09 46	12	600	1
23 09 48	13	160	1
23 09 50	14	160	1
23 09 52	14	260	1
23 09 54/1	14	450	1
23 09 56	14	600	1
23 09 58	15	160	1
23 09 60	16	210	1
23 09 62/1	16	450	1
23 09 64	16	600	1
23 09 66	18	200	1
23 09 68	18	450	1
23 09 70	20	210	1
23 09 72	20	310	1
23 09 74	20	450	1
23 09 76	22	450	1
23 09 78	25	450	1

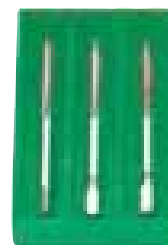
Screw extractor set



Art. No.	size	weight	PU
23 06 82	1 - 5/M 3 - 18	175	10
23 06 83	1 - 6/M 3 - 24	200	10

Hand taps DIN 352, type N/HSS

set of 3, for ISO metric thread to DIN, 1, 2, 3-cutter, made of HSS, for pass-through threading, for good chipping steel up to approx. 900 N/mm²



Art. No.	thread	rising	□	shank Ø	weight	PU
23 08 00	M 1	0,25	2,1	2,5	1	1
23 08 02	M 1,4	0,3	2,1	2,5	1	1
23 08 04	M 1,6	0,35	2,1	2,5	2	1
23 08 06	M 1,8	0,35	2,1	2,5	2	1
23 08 08	M 2	0,4	2,1	2,8	2	1
23 08 10	M 2,2	0,4	2,1	2,8	2	1
23 08 12	M 2,5	0,45	2,1	2,8	2	1
23 08 14	M 3	0,5	2,7	3,5	3	1
23 08 16	M 3,5	0,6	3	4	4	1
23 08 18	M 4	0,7	3,4	4,5	4	1
23 08 20	M 4,5	0,75	4,3	5,5	5	1
23 08 22	M 5	0,8	4,9	6	9	1
23 08 24	M 6	1	4,9	6	11	1
23 08 26	M 7	1	4,9	6	12	1
23 08 28	M 8	1,25	4,9	6	14	1
23 08 30	M 9	1,25	5,5	7	17	1
23 08 32	M 10	1,5	5,5	7	20	1
23 08 34	M 11	1,5	6,2	8	25	1
23 08 36	M 12	1,75	7	9	36	1
23 08 38	M 14	2	9	11	52	1
23 08 40	M 16	2	9	12	62	1
23 08 42	M 18	2,5	11	14	102	1
23 08 44	M 20	2,5	12	16	125	1
23 08 46	M 22	2,5	14,5	18	182	1
23 08 48	M 24	3	14,5	18	205	1
23 08 50	M 27	3	16	20	260	1
23 08 52	M 30	3,5	18	22	370	1
23 08 54	M 33	3,5	20	25	480	1
23 08 56	M 36	4	22	28	645	1
23 08 58	M 39	4	24	32	820	1
23 08 60	M 42	4,5	24	32	930	1
23 08 62	M 45	4,5	29	36	1140	1
23 08 64	M 48	5	29	36	1370	1
23 08 66	M 52	5	32	40	1650	1
23 08 68	M 56	5,5	35	45	2800	1
23 08 70	M 60	5,5	35	45	2900	1

HSS taps "Direct cutter"

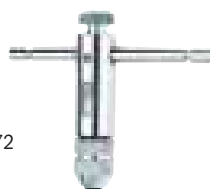
with intermittent teeth, dimensions to DIN 371, or ISO metric thread to DIN 13.



Art. No.	thread	rising	shank	weight	PU
23 09 82	M 4	0,7	4,5	4	1
23 09 84	M 5	0,8	6,0	8	1
23 09 86	M 6	1,0	6,0	10	1
23 09 88	M 8	1,25	6,0	12	1

Ratchet wrenches

for right-hand and left-hand action



23 10 70-72



23 10 74-76

Art. No.	size	shank	length	thread	weight	PU
23 10 70	1	2,4 - 5,5	85	M 3 - 9	185	1
23 10 72	2	4,5 - 7	100	M 9 - 12	360	1
23 10 74	1	2,4 - 5,5	250	M 3 - 9	285	1
23 10 76	2	4,5 - 7	300	M 5 - 12	465	1

HSS taps sets

with taps to DIN 352, in metal box, contents:
M3, M 4, M 5, M 6, M 8, M 10, M 12



Art. No.	weight	PU
23 10 80	770	1

Combi, threading bit set, made of HSSG SGE-Bit (DBGM)

for drilling, threading and countersinking, for stand drilling machines and hand drills, suitable for steel and NE metal up to 1 xd (M 6 = 6 mm thickness of material), up to 600 N/mm² tensile strength, rpm according to the cutting speeds of the tride, in metal box



Art. No.	Contents	weight	PU
23 10 82	M 3, 4, 5, 6, 8, 10	250	1

Adjustable tap wrenches DIN 1814

for taps

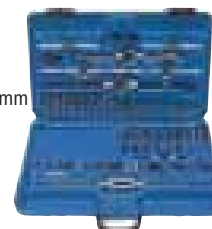


Art. No.	size	length	thread	weight	PU
23 10 50	0	2,1 - 4,9	M 1 - 8	50	1
23 10 52	1	2,1 - 5,5	M 1 - 10	95	1
23 10 54	1 1/2	2,1 - 7,0	M 1 - 12	130	1
23 10 56	2	3,8 - 7,0	M 4 - 12	280	1
23 10 58	3	4,9 - 12,0	M 5 - 21	700	1
23 10 60	4	5,5 - 16,0	M 9 - 27	1270	1
23 10 62	5	7,0 - 20,0	M 12 - 33	1630	1
23 10 64	6	12,0 - 24,0	M 19 - 38	4520	1

HSS Tap sets

Contents:

hand tap (DIN 352) M 3, 4, 5, 6, 8, 10, 12
Dies (DIN 223) M 3, 4, 5, 6, 8, 10, 12,
Dies stock 20 x 5/20 x 7/25 x 9/30 x 11/38 x 14 mm
tape holder size 1 + 2, in metal box

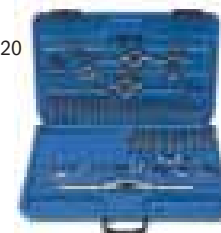


Art. No.	set	weight	PU
23 12 80	23-pieces	3700	1

HSS Tap sets

Contents:

Hand tap (DIN 352) M 5, 6, 8, 10, 12, 14, 16, 18, 20
Dies (DIN 223) M 5, 6, 8, 10, 12, 14, 16, 18, 20
Dies holder
20 x 7/25 x 9/30 x 11/38 x 14/45 x 18 mm
Tap holder size 1 + 3, in metal box



Art. No.	set	weight	PU
23 12 82	25-pieces	8200	1

Cone drills/Aerial drills/HSS

for edgefree drilling of thin material



Art. No.	Ø mm	shank	weight	PU
23 13 00	3 - 14	6,0	21	1
23 13 01	6 - 20	8,0	47	1
23 13 30	6 - 22,5	8,0	50	1
23 13 02	16 - 30	10,0	128	1
23 13 04	26 - 40	12,0	260	1
23 13 05	6 - 30	10,0	260	1
23 13 06	36 - 50	12,0	350	1
23 13 07	46 - 60	13,0	510	1

Set of cone drills/HSS

4 pieces, in metal box, 1 piece each No. 1, 2, 3 (Ø 3 - 30 mm), plus paste, suitable for NE material, soft steel sheet, similar to ST 14 - 37, Nirosta steel sheet A 2, for duro or thermo plastic



Art. No.	set	size	Ø	weight	PU
23 13 12	4-pieces	1 - 3	3 - 30	585	1

a-range...adjusting range	cross section...in mm ²	height.....in mm	Mfor screws M	sizein mm	th. of jaw.....thickness of jaw (mm)
barin mm	CTH.....cutting thickness (mm)	length.....in mm	Øin mm	sthsteel thickness in mm	tot. length.....in mm
CC-Øcutting capacity in mm ²	CW.....cutting width in mm	loblength of blade mm	PU.....packing unit in pieces	ththickness in mm	weightin mm

Combination step drills/HSS

for **metric PG rough thread-through-hole and core-hole-drillings**,
6 drilling diameters for core-hole with 5 mm step for sheet metal up to
max. 6 mm
through-hole: 8,5 - 12,5 - 16,5 - 20,5 - 25,5 - 32,5 - 40,5 mm
core-hole: 10,5 (M12) - 14,5 (M16) - 18,5 (M20) - 23,5 (M25) -
30,5 (M32) - 38,5 (M40)



Art. No.	weight	PU
23 13 19	150	1

Step drills /HSS

Special type for electric assembly, for sheet metal up to max. 4 mm gauge,
for metric thread through-hole drilling,
8,5 - 12,5 - 16,5 - 20,5 - 25,5 - 32,5 - 40,5 mm



Art. No.	weight	PU
23 13 24	205	1

Step drills /HSS

thickness up to max. 6 mm, for **metric** core-hole-drilling,
8,5 - 10,5 - 14,5 - 18,5 - 23,5 - 30,5 mm



Art. No.	weight	PU
23 13 26	160	1

Step drills/HSS

special type for electric assembly, for sheet steel up to 4 mm thickness,
for amoured conduit thread sizes



Art. No.	drill-Ø	weight	PU
23 13 20	PG 7 - 29	205	1
23 13 22	PG 7 - 21	135	1

Step drills/HSS

for amoured conduit core removing hole sizes up to 6 mm thickness



Art. No.	drill-Ø	weight	PU
23 13 23	PG 7 - 21	150	1

Step drills/HSS

for mechanical engineering and tinsmith working, with 2 cutters, metric



Art. No.	drill-Ø	shank	rising	weight	PU
23 13 36	4 - 12	6	1	17	1
23 13 38	12 - 20	9	1	60	1
23 13 40	20 - 30	12	1	190	1
23 13 42	30 - 40	12	1	385	1
23 13 50	4 - 12	6	2	17	1
23 13 52	4 - 20	8	2	50	1
23 13 54	6 - 30	10	2	153	1

Step drills assortment/HSS

4 pieces, for mechanical engineering and tinsmith working,
with 2 cutters
Contents: Ø 4 - 12 mm, Ø 12 - 20 mm, Ø 20 - 30 mm, paste



Art. No.	set	size	weight	PU
23 13 27	4-pieces	4 - 30	650	1

Drilling paste

high quality drilling paste, in practical container, 17 g



Art. No.	weight	PU
23 13 34	40	1

INFO

Rotary guide value for step drills/cone drills

Material	unleg. Baustahl < 700 N/mm² Mild steel < 700 N/mm²	unleg. Baustahl > 700 N/mm² Mild steel > 700 N/mm²	leg. Stahl 1000 N/mm² Alloy steel 1000 N/mm²	Gußeisen < 250 N/mm² Cast iron < 250 N/mm²	Gußeisen > 250 N/mm² Cast iron > 250 N/mm²	Edelstahl rostfrei Stainless steel	CuZn Leg. spröde CuZn alloy brittle	CuZn Leg. zäh CuZn alloy tough	AL Leg. bis 11% Si Alloy steel < 11% Si	Thermo- plaste Thermo plastic	Duro- plaste Duro plastic	Holz Wood
Materialstärke Material gauge	5,0 mm	5,0 mm	5,0 mm	5,0 mm	5,0 mm	3,0 mm	5,0 mm	5,0 mm	5,0 mm	5,0 mm	5,0 mm	25,0 mm
Bohrpaste Lubricant	X	X	X	X	X	X	X	X	X	X	X	X
m / min	20 - 25 U/min r.p.m	16 - 20 U/min r.p.m	10 - 16 U/min r.p.m	12 - 25 U/min r.p.m	8 - 12 U/min r.p.m	5 - 12 U/min r.p.m	20 - 25 U/min r.p.m	16 - 20 U/min r.p.m	10 - 16 U/min r.p.m	12 - 25 U/min r.p.m	8 - 12 U/min r.p.m	40 - 100 U/min r.p.m
Ø mm												
4,0 - 12,0	1900 - 600	1500 - 500	1500 - 500	1190 - 400	800 - 230	500 - 300	2700 - 930	2390 - 800	1990 - 550	1590 - 450	1190 - 340	3000 - 1000
4,0 - 20,0	1900 - 400	1500 - 320	1500 - 320	1190 - 240	800 - 160	400 - 250	2700 - 560	2390 - 480	1990 - 400	1590 - 320	1190 - 240	2800 - 1000
12,0 - 20,0	1330 - 250	1060 - 250	1060 - 250	800 - 190	530 - 130	400 - 250	1860 - 450	1590 - 380	1330 - 320	1060 - 250	800 - 190	2000 - 800
4,0 - 24,0	1330 - 250	1060 - 250	1060 - 250	800 - 190	530 - 130	400 - 250	1860 - 450	1590 - 380	1330 - 320	1060 - 250	800 - 190	2000 - 800
6,0 - 30,0	1900 - 250	1500 - 250	1500 - 250	1190 - 190	800 - 130	400 - 250	2700 - 3700	2390 - 320	1990 - 270	1590 - 210	1190 - 160	1500 - 800
20,0 - 30,0	1330 - 250	1060 - 250	1060 - 250	800 - 190	530 - 130	150 - 80	1860 - 370	1590 - 320	1330 - 270	1060 - 210	800 - 160	1500 - 800
6,0 - 36,0	1330 - 250	1060 - 250	1060 - 210	800 - 190	530 - 130	100 - 60	1860 - 370	1590 - 320	1330 - 270	1060 - 210	800 - 160	1500 - 800
30,0 - 40,0	1000 - 200	900 - 160	900 - 130	800 - 130	530 - 80	80 - 40	1860 - 280	1590 - 240	1330 - 200	1060 - 130	800 - 100	600 - 200

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Spare screws

Spare screws for screw punches



Art. No.	screws M	weight	PU
18 05 30	10 x 1	60	1
18 05 32	12 x 1,5	60	1
18 05 34	16 x 1,5	60	1

Screw punches

matching for metric cable connection acc. the new Euro-Norm EN 50262, with 3 cutting edges for iron sheet up to 2 mm, steel sheet up to 1,5 mm, stainless-steel sheet up to 1,5 mm thickness



Art. No.	size.	hole-Ø (mm)	weight	PU
18 05 13	16	16,5	185	1
18 05 15	20	20,5	230	1
18 05 17	25	25,5	350	1
18 05 19	32	32,5	400	1
18 05 21	40	40,5	950	1
18 05 23	50	50,5	1300	1
18 05 25	63	63,5	1600	1

Screw punches

with 3 cutting edges for iron sheet up to 2 mm, steel sheet up to 1,5 mm, stainless-steel sheet up to 1,5 mm thickness



Art. No.	size PG	hole-Ø	screws	max.	weight	PU
			M	thickness		
18 05 00	9	15	10 x 1	1,5	80	1
18 05 02	11	19	10 x 1	1,5	150	1
18 05 04	13,5	21	10 x 1	1,5	165	1
18 05 06	16	22,5	10 x 1	1,5	185	1
18 05 08	21	29	10 x 1	1,5	250	1
18 05 10	29	37	10 x 1	1,5	400	1
18 05 12	30,5	-	10 x 1	1,5	400	1
18 05 14	36	47	12 x 1,5	1,75	800	1
18 05 16	42	54	16 x 1,5	2,0	1250	1
18 05 18	48	60	16 x 1,5	2,0	1300	1
18 05 20	1 1/8"	29	10 x 1	1,5	250	1

Hollow core cutters

for tungsten carbide tipped, with centre bit and hexagon shank, 12 mm



Art. No.	Ø	length	mm	no. of te.	weight	PU
23 06 61	68	80	12	6	1100	1
23 06 65	82	80	12	6	1100	1

Centre bits with tungsten carbide tipped cutting edge

for tungsten carbide tipped hollow core cutters



Art. No.	Ø	length	weight	PU
23 06 80	9	120	40	1

Hollow core cutters

tungsten carbide tipped, with centre bit and SDS shank
* coned shank



Art. No.	Ø	length	no. of te	weight	PU
23 06 67*	68	80	6	1100	1
23 06 75*	82	80	6	1100	1

Taps for armoured steel conduits, metric thread



Art. No.	thread	weight	PU
14 02 36	M 16 x 1,5	40	1
14 02 38	M 20 x 1,5	60	1
14 02 40	M 25 x 1,5	90	1
14 02 42	M 32 x 1,5	120	1
14 02 44	M 40 x 1,5	150	1
14 02 46	M 50 x 1,5	230	1
14 02 48	M 63 x 1,5	600	1

Adjustable tap wrenches

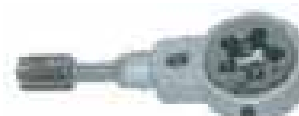
short pattern



Art. No.	for taps		weight	PU
	PG	inch		
14 01 80	7 - 21	1/8 - 3/4"	850	1
14 01 82	11 - 48	1/2-2 1/2"	1900	1

Nipple threading dies

with guide, replaceable dies and taps



Art. No.	thread	weight	PU
14 01 90	M 10	100	1
14 01 92	M 13	130	1

Nipple threading dies

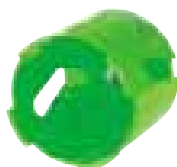
with guide, replaceable dies and tap



Art. No.	thread	weight	PU
14 02 10	M 10, M 13	220	1

Diamond hollow core cutters

hard-soldered, turned of full material, suitable for hard materials as well as for stone/brick works and artificial stones, thread M 16, without shank and centre bit, **laser-welded**



Art. No.	Ø	weight	PU
23 06 76	68	450	1
23 06 77	82	550	1

Shank for hollow core cutters

SDS-Plus-shank, M16, connection thread



Art. No.	length	weight	PU
23 06 81	100 mm	150	1

Shank for hollow core cutters, SDS-Plus

SDS-Plus-shank, conic



Art. No.	length	weight	PU
23 06 81 K	100 mm	150	1

Shank for hollow core cutters, SW 12

shank M 16, for centre bits, cylinder



Art. No.	weight	PU
23 06 78	150	1

Drill for Diamond hollow core cutters

cylindric shank



Art. No.	Ø	length	weight	PU
23 06 79	9	120	40	1

Diamond hollow core cutters

shank M 16, for centre bits, hexagon fitting, **laser-welded**



Art. No.	Ø	weight	PU
23 06 76 K	68	640	1
23 06 77 K	82	740	1

INFO

Diamond cutting blades

Suitable for: pumice, gas concrete, medium and soft limesand stone, gypsum boards, mortar, clinker, plaster, artificial stone and soft sandstone.

Further for: flooring-plaster, concrete, concretestone, pantile of concrete, hard sandstone, granite, porphyry (short/low working time).

Diamond cutting blades

laser-welded, high diamond concentration, long life, for the professional works, DSA 5215



Art. No.	Ø	bore-Ø	weight	PU
23 06 89	115	22,2	100	1
23 06 91	125	22,2	150	1
23 07 20	135 (for FUBAG)	30,0	200	1
23 07 21	140 (for FLEX)	22,2	250	1
23 07 04	150	22,2	200	1
23 07 05	180	22,2	400	1
23 07 06	230	22,2	700	1
23 07 11	300	22,2	1100	1

Diamond cutting blades

sintered, continuous rim. universal application, DSA 5262



Art. No.	Ø	bore-Ø	weight	PU
23 07 01	115	22,2	100	1
23 07 02	125	22,2	100	1
23 07 08	180	22,2	400	1
23 07 09	230	22,2	700	1

Diamond cutting blades

sintered, continuous rim. universal application, granite, tiles, ceramics, stone- and marble-flatters, DSA 3071



Art. No.	Ø	bore-Ø	weight	PU
23 07 14	115	22,2	200	1

Diamond cutting blades

sintered, continuous rim. universal application, DSA 5418



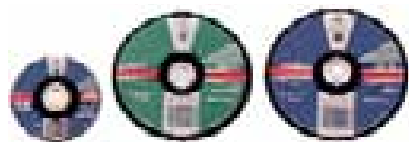
Art. No.	Ø	bore-Ø	weight	PU
23 07 22	115	22,2	200	1
23 07 23	125	22,2	200	1
23 07 25	230	22,2	800	1

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Cutting discs

approved acc. DSA



Art. No.	w-range	dimension	weight	PU
14 08 00	metal	115 x 2,5 x 22	50	10
14 08 02	metal	125 x 2,5 x 22	100	10
14 08 04	metal	180 x 3,0 x 22	150	10
14 08 06	metal	230 x 3,0 x 22	250	10
14 08 10	stone	115 x 2,5 x 22	50	10
14 08 12	stone	125 x 2,5 x 22	100	10
14 08 16	stone	230 x 3,0 x 22	200	10
14 08 22	Schrupp metal	125 x 6,0 x 22	250	10
14 08 26	Schrupp metal	180 x 8,0 x 22	300	10
14 08 30	Schrupp metal	230 x 8,0 x 22	350	10

Carbide tipped hollow saws with border senk D 68

Ø 68 mm, total length 175 mm, multi purpose hole saw for turning operation suitable for plastic, tiles up to hardness 6 and plaster material, set consisting of hole saw D 68, shank SW 11, carbide-tipped centre bit



Art. No.	Ø	length	weight	PU
23 06 99	68	175	650	1

Hollow saws

with shank M16, of Bi-metal, set toothing, tooth pitch alternating from 4,2 to 6,3 mm, long tool life, suitable for metall, wood and plastics.



Art. No.	Ø	weight	PU
23 18 00	22	45	1
23 18 02	25	55	1
23 18 04	29	60	1
23 18 06	32	72	1
30 05 00	35	86	1
23 18 10	40	100	1
23 18 12	51	110	1
23 18 14	57	152	1
30 05 01	68	200	1
23 18 18	76	248	1
23 18 20	79	260	1

Centre drill



Art. No.	Ø	weight	PU
30 05 60	6,35	90	1

Shank for hollow saw



Art. No.	weight	PU
23 06 85	290	1

HSS-BI-Hole saw assortment

For fast and exact holes metal, wood inter-effected with nails, ply wood, fibre boars, plastic, pipe, boards and asbestos. Re-milleable, for operation in hand- and stand drilling machines, combi-toothing, Ø 35/68/75 mm, with arbor and bit, set of 2 or 3 pieces



Art. No.	Set		weight	PU
23 06 87	2-pieces	combi-toothing, Ø 68/82 mm	900	1
23 06 86	3-pieces	combi-toothing, Ø 35/68/75 mm	1000	1

Folding rules

wood, with spring joint, mm-graduations on both sides



Art. No.	length m	width	strength	weight	PU
24 00 02	2	16	3,0	120	10

Measuring tapes

with spring steel tapes, case: plastic, with automatic return motion and locking key, tape with stove-enamel finished



Art. No.	length m	width	weight	PU
24 00 10	2	13	90	12
24 00 11	3	13	90	12
24 00 12	5	16	90	12

Measuring tapes

in metal case, with woven rayon tape, strengthened against stretching by 8 bronze wires woven into tape, scale graduations both sides: metres and centimetres



Art. No.	length m	width	weight	PU
24 00 18	20	16	500	1
24 00 20	25	16	600	1
24 00 22	30	16	660	1
24 00 24	50	16	1050	1

Aluminium spirit levels

bubble level made of acrylic glass,
accuracy of measurement: $0,043^\circ = 0,75 \text{ mm/m}$



Art. No.	length	width	height	weight	PU
24 00 41	300	20	57	320	1
24 00 42	400	20	57	340	1
24 00 44	600	20	57	480	1
24 00 46	800	20	57	530	1
24 00 48	1000	20	57	620	1

Electrician's safety levels

nonconducting plastic material, with 2 tubes horizontal and vertical



Art. No.	length	width	height	weight	PU
24 00 57	400	24	52	200	1
24 00 58	600	24	52	250	1

Cabinet levels

Torped type, nonconducting plastic material, with 3 tubes horizontal, vertical and 45°



Art. No.	length	width	height	weight	PU
24 00 59	250	20	40	100	1

Torped-level

with 3 tubes horizontal, vertical and 45°



Art. No.	length	weight	PU
24 00 60	225	300	1

Gauges

steel, nickel-plated, in plastic bag



Art. No.	length	width	height	weight	PU
24 00 62	95	35	3	75	1

Precision pocket vernier calipers „Stainless“

manufactured from stainless steel, completely hardened, with measuring nibs, depth gauge and thread tables, in plastic wallet, $1/20''$ or $1/128 \text{ mm}$, size 140 mm



Art. No.	weight	PU
24 00 71	170	1

Engineers' squares

manufactured from steel, bright



Art. No.	size mm	width	strength	weight	PU
24 01 32	150 x 100	20	5	170	1
24 01 34	200 x 130	20	5	235	1
24 01 36	250 x 160	25	5	370	1
24 01 38	300 x 180	25	5	590	1

Engineers' squares

manufactured from steel, bright



Art. No.	size mm	width	strength	weight	PU
24 01 52	150 x 100	20	5	170	1
24 01 54	200 x 130	20	5	235	1
24 01 56	250 x 160	25	5	370	1
24 01 58	300 x 180	25	5	440	1
24 01 60	400 x 230	30	5	680	1

Steel point scribers

knurled handle, replaceable screw-out hardened points, handle with one straight and one bent point (90°).



Art. No.	length	weight	PU
24 02 34	250	50	10



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Construction stand

In sturdy light metal, weight only approx. 4 kg, 105 cm long, extensible to 160 cm, including stand plate, to take LaserBoy II and Drixlaser.



Art. No.	weight	PU
24 00 45	4000	1

Rotary Laser

The new Rotary Laser has been designed as a sturdy instrument for the production of metre lines and vertical lines in interior building construction. Its advantages are that there are enormous savings in time and costs. Without requiring the help of any other person, complicated measurement and checking work can be carried out in seconds. A simple and secure eccentric clamp on the adjustment plate makes it possible to quickly clamp the rotary laser in a horizontal or vertical position.

The set consists of:

- 1 Rotary laser
- 1 Adjustment plate
- 1 Battery charger
- 1 Transport case



pic. with acc. laser eye

Art. No.	weight	PU
24 00 77	1300	1

Stand with sliding telescope

With this stand, suitable for universal use, the operator can comfortably and precisely set the desired operating height. Maximum operating height: 1.45 m, mounting thread: 5/8"



Art. No.	weight	PU
24 00 78	6500	1

Laser eye

In bright surroundings or at great distances, the laser eye makes it possible to determine the position of the laser beam. The laser eye is a valuable aid when working in extremely bright surroundings and/or outside.



Art. No.	weight	PU
24 00 79	250	1