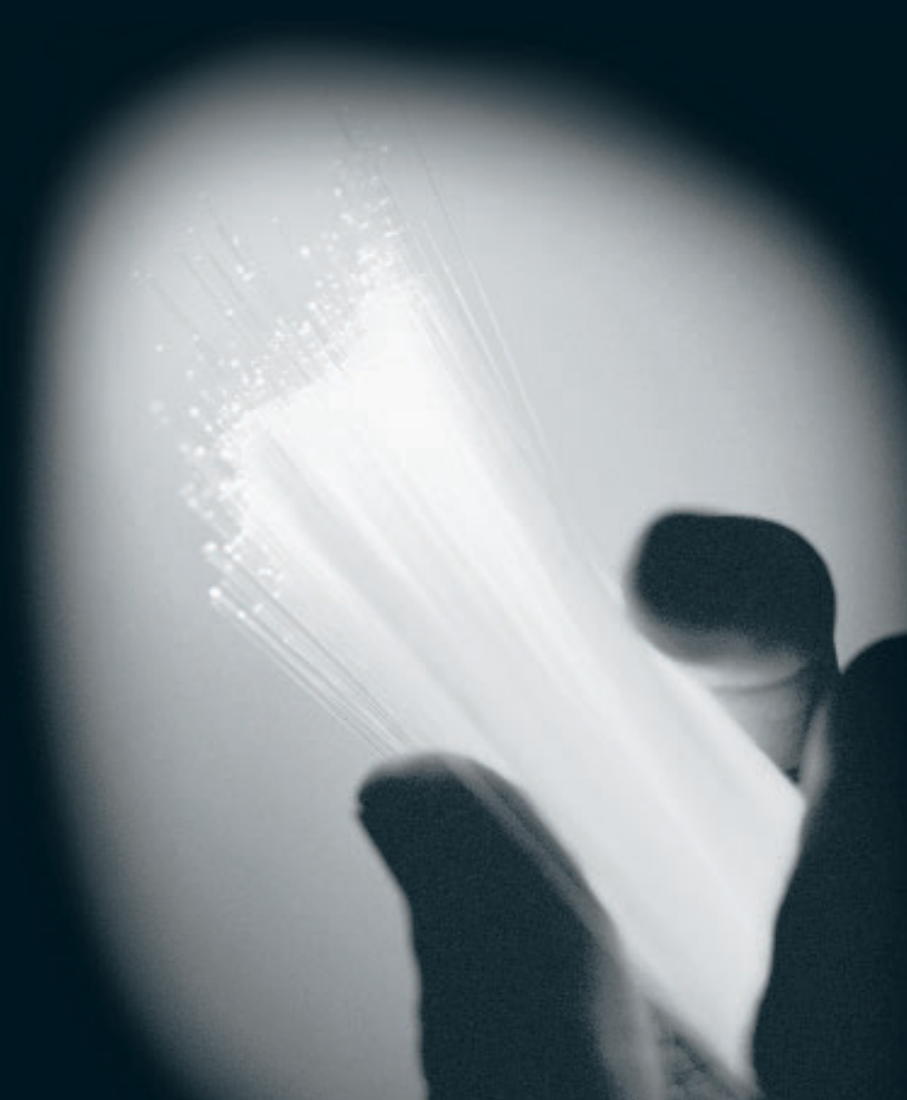
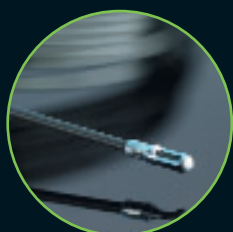


Catalogue 2002



haupa[®]

...Technology that connects

The foundations of the HAUPA Group were laid in 1961 in Remscheid, the centre of the German tool manufacturing industry.



Hans-Udo Paas founded HAUPA with the aim of providing high quality tools for the requirements of the electrical trade. The effective combination of a respect for tradition and the use of efficient cutting edge methods were and are the basis for the consistent, stable expansion strategy of our enterprises.

Subsidiaries and general importers throughout the whole of Europe ensure a wide-ranging network of distribution partners who are close to our customers and can guarantee a constant readiness to deliver.



Innovative strength and functional competence in the cable and high voltage product lines as well as the experience of our team combined with the use of only the highest quality materials guarantee mature high quality products

... to increase your productivity

... to make you more competitive

... for your lasting benefit

Corporate philosophy

... Our product range contains no cheap products.

... The high quality of the products is our top priority.

... We carry out continuous quality control in our plants.

... Quality and faithfulness to deadlines are demands that we place upon ourselves while taking our customers' requirements to heart.

... We only employ specialists in the respective areas.

... All our departments regularly exchange information.

... Our declared goal is the continuous growth of our company.

Quality



HAUPA has been certified according to DIN EN ISO 9002 since 1996.

In order to incorporate a true quality standard the quality management department of HAUPA decided at a very early stage to apply for ISO 9002 certification, which controls and covers the complete internal working and monitoring procedures.

From goods receipt to dispatch – all working processes are carried out according to defined procedures.

All HAUPA employees receive regular training in order to comply with these standards and to encourage them to actively suggest ways of improving the processes. Special, so-called QMB employees analyse modified structures and integrate these into the defined standards. Independent auditors carry out audits at regular intervals to ensure compliance.



HAUPA-Group

Germany
HAUPA GmbH & Co. KG
Königstraße 165-169
42853 Remscheid
Phone: +49 (0)2191 8418-0
Fax: +49 (0)2191 8418840
E-Mail: sales@haupa.com
www.haupa.com

Austria
HAUPA
Werkzeuge Hans-Udo Paas
Bayernstraße 436
5072 Siezenheim
Phone: +662 854717
Fax: +662 854632
E-Mail: haupa.austria@haupa.com

Spain
HAUPA Ibérica S. L.
C/. Joanot Martorell, 36
08850 Gava/Barcelona
Phone: +902 313135
Fax: +902 414145
E-Mail: haupa.iberica@haupa.com

Index:

News 2002	4 - 5
Cutting Cable cutters, Hydraulic cutting tools	6 - 14
Stripping Wire stripping pliers	15 - 20
Crimping Crimping pliers for Terminals, Connectors, Modular plugs Mechanical crimping tools	21 - 42
Crimping Hydraulic crimping tools Hydraulic crimping headstocks Pumps	43 - 54
Expendable items Crimping terminals	55 - 64
Expendable items End sleeves	65 - 72
Expendable items Connectors, Ring terminals, Terminals, DIN-terminals	73 - 98
Expendable items Cable ties, Tensioning tools, Heat shrinkable tubes	99 - 104
Index	105 - 112



Accu crimping tool

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

Comprehensive informations for this product you find on page 50.



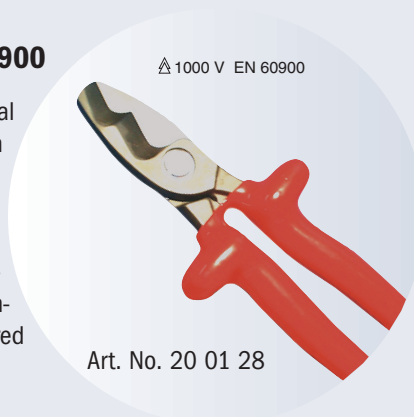
Electrohydraulic p

with safety valve to black metal case rechargeable ba

Comprehensive product you find

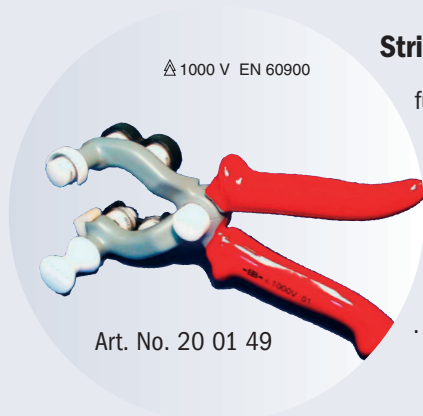
Double edged cable cutter acc. to EN 60900

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. 20 01 28



△ 1000 V EN 60900

Stripping pliers acc. to 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

Art. No. 20 01 49

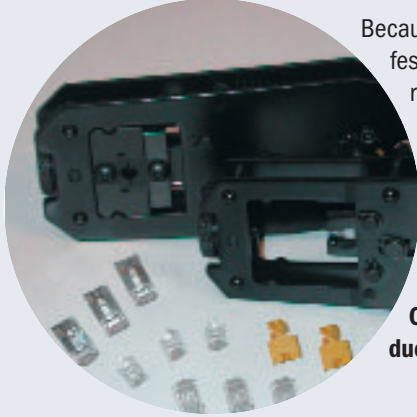
Around the cable

Crimping tools

to prevent damage, in
e, incl. charger, 2
batteries, carrying belt

Information for this
product on page 54.

Crimping pliers

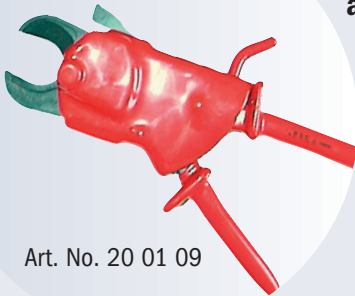


Because of their optimum leverage, these professional crimping pliers are easy to use and require little effort. The body of the pliers is made from hardened special steel and the parallel forward feed guarantees durable and precise crimping of Western plugs.

Comprehensive information for this product you find on page 28/29.

Working under tension

⚠ 1000 V EN 60900



VDE ratchet cable cutter with cover acc. to 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

Art. No. 20 01 09

Comprehensive information to our products Safety tools and Articles for AC 1000V, DC 1500V you find in our catalogue „Working under tension“

Pliers with 2-component sheath

The second component is made from soft rubber – this means that the pliers sit firmly in the hand and cannot slip.

The dropforged body of the pliers is made from special tool steel and chromium-plated in high lustre. The cutting edges are inductively post-hardened and, in combination with the optimum cutting angle guarantee an ideal cutting performance.



Basis program

Comprehensive information to our products you find in our catalogue „Basis program“

haupa[®]

...Technology that connects



Cutting (WG 20, 21c)

Cable cutters,
Hydraulic cutting tools



INFO

Cutting

In cutting, a distinction is made between a drawing cut and a pushing cut.

When the cutting motion is carried out at an angle to the tool, this is a drawing cut. However, if the cutting motion is carried out vertically to the tool this is a pushing cut.

Cutting pistol

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



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

Electricians' scissors

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



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

Electricians' scissors

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



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

Super cable cutters

stainless special steel



Art. No.	length	cutting capacity		weight	PU
		solid	fine stranded		
20 00 84	180	4 - 5	50	115	6

cross section . . . in mm ²	PU packing unit in pieces
length in mm	size in mm
lob length of blade in mm	th thickness in mm

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	cable-Ø	weight	PU
20 00 86	170	0 - 10	230	1
20 00 88	230	0 - 15	485	1

Cable cutters

for cutting of flat-tape-leats, 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	weight	PU
20 00 75	240	350	1

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

Cable cutters

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



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

Cable cutters

for Copper- and Alu-cable; steel-tube handles, PVC-covered, E 1



Art. No.	length	cable-Ø	Ø mm ²	weight	PU
20 00 87	500	27	150	1100	1

tot. length . . . total length in mm	weight weight in g
Ø in mm	

Cable cutters

Cable cutters, ratchet action type, with spare blade, for copper and alu cable



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 55 mm Ø and cross-section max. 1 x 450 mm²



Art. No.	length	weight	PU
20 00 78	290	1000	1

Cable cutters

Power transmission 60 point, ratchet action type
Working range: for Copper-cable 55 mm Ø and cross-section max. 1 x 450 mm²,
3 x 180 mm², 4 x 120 mm²



Art. No.	length	weight	PU
20 00 79	430	1200	1

Cable cutters

for copper- and alucable to 35 mm, cutters of CV-steel, PVC-covered steel tube handle, Ø 180 mm²,



Art. No.	length	weight	PU
20 00 95	530	1400	1

Cable cutters

for copper-cable to 30 mm Ø and cross section 150 mm, with patented leverage construction and transparent hand insulation, KI. II



Art. No.	length	weight	PU
20 00 96	330	1050	1

Cable cutters

for copper- and alucable to 50 mm Ø and cross-section 500 mm², blades of CV-steel, PVC-covered steel tube handle, E3



Art. No.	length	weight	PU
20 00 99	780	2700	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 24 mm Ø, cross-section 120 mm²
Replacement cutting head look at Art. No. 20 01 02



Art. No.	length	weight	PU
20 00 76	600	1950	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

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

haupa®

...Technology that connects

INFO

Cable cutters

These cable cutters are peak-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 excenter gear. Large scale measurement of the forged toothing 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 wire or telecommunication cable		25 mm Ø
Dimension:	245 x 100 mm		
Weight:	0,9 kg		

Front cable cutters

for Copper and Alu- cable 35 mm Ø, squeeze- free cutting, optimized lever-transmission by excenter drive system

Copper cable: 300mm², multi- and fine wiring,, outside -Ø 25 mm

Alu- cable: 300 mm² multi-wiring, outside -Ø 25 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 wire 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 wire or telecommunication cable		35 mm Ø
Dimension:	330 x 135 mm		
Weight:	1,4 kg		

cross section . . . in mm ²	PU packing unit in pieces
length in mm	size in mm
lob length of blade in mm	th thickness in mm

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 wire 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 wire 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 upto 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 wire or telecommunication cable		34 mm Ø
Dimension:	320 x 140 mm		
Weight:	1,0 kg		

tot. length . . . total length in mm
weight weight in g
Ø in mm

Cable cutters

for copper- and alucable, 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 wire 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 alucable, 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 wire or telecommunication cable		52 mm Ø
Dimension:	325 x 145 mm		
Weight:	1,2 kg		

Mechanic cable cutter

Cutting range copper- and alu cable up to 62 mm Ø max. cross section 840 mm², optimized cutting by excenter 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 wire or telecommunication cable		62 mm Ø
Dimension:	410 x 160 mm		
Weight:	2,0 kg		

Special cable cutter

for computer- and telephoncable up to 75 mm Ø, 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 wire or telecommunication cable		75 mm Ø
Dimension:	370 x 175 mm		
Weight:	1,5 kg		

Hand cable cutter

for copper- and alucable 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 wire or telecommunication cable		52 mm Ø
Dimension:	280 x 120 mm		
Weight:	0,73 kg		

Special cable cutter

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



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 wire or telecommunication cable	1000 mm ²	80 mm Ø
Dimension:	610 x 190 mm		
Weight:	3,0 kg		

haupa®

...Technology that connects

Hydraulic cutter

guillotine type cutter, adjustable 180° headstock, complete with handy carrying bags



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

Hydraulic cutter

guillotine type cutter, adjustable 180° headstock, complete with handy carrying bags



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

Hydraulic cutter

guillotine type cutter, adjustable 180° headstock, complete with handy carrying bags



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

Hydraulic cutting headstock

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

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



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

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

IF identification figure
 length 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	∅	weight	PU
21 64 08	Cu- and Al-Cable	85	1500	1

Hydraulic cutting headstock

with speed 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	∅	weight	PU
21 64 10	Cu- and Al-Cable	max. 110	1500	1

Hydraulic cutting headstock

with speed 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	∅	weight	PU
21 64 12	Cu- and Al-Cable	max. 50	1500	1

Hydraulic cutting headstock

with speed 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	∅	weight	PU
21 64 14	Cu- and Al-Cable	max. 100	1500	1

SS, SM sectorshape singlewinging/multiwiring weight in gr.
 text article text width in mm
 tot. length total length in mm ∅ in mm

Pneumatic foot pump

different automatic valves for two different speeds, maximum pressure, valve that releases automatically when the connection is completed, returning of the dies is made by means of the foot operated push button on the upper part of the press with 2 meter hose



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



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

Hydraulic foot pump

twin-cam pump with automatic switch over and maximum-pressure valve, 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

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

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



Skinning (WG 20, 21a)

Cable strippers,
Wire stripping pliers



INFO

Cable strippers

For quick and simple stripping of the outer protective sheath.

Applications:

Work in distribution sockets
 PVC round cable / moist atmosphere cable / blade for segment and flat cable
 NYY 4 - 16 mm² - NYM 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: NYY - 4 - 16 mm² - NYM - 5 - 16 mm², coaxial cables and round bell wire, also for cutting of Isoflex and PVC tubes with diameters up to 25 mm Ø



Art. No.	weight	PU
20 00 22	200	2
20 00 24	10	5
	spare blades	

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.	weight	PU
20 00 23	200	1

Cable stripping knives

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



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

cross section	. in mm ²	PU	.packing unit in pieces
length	. . . . . in mm	size	. . . . . in mm
lob	. . . . . length of blade in mm	th	. . . . . thickness in mm

Cable stripping knives

with hook blade, for splitting sheath and stripping conductors, with automatic change of cutting operation from lengthwise to circular cutting



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

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.	Ø	weight	PU
20 00 43	0,2 - 4,0	50	1

Flatcable strippers

for 0,8 - 1,5 - 2,5 mm² cable-Ø



Art. No.	weight	PU
20 00 37	80	6

Strippers „Coaxi“

for coaxial cable, 1 side for outside, 1 side for inside cover



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

tot. length	. . . total length in mm
weight	. . . . . weight in g
Ø	. . . . . in mm

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

PC-Strip

specially constructed for stripping-off computer- and control-cable
Stripping-off: 5,5 - 15,0 mm Ø, cover of PVC-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 for UTP-/ STP- data cable

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



Art. No.	weight	PU
20 00 68	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, telecommunications, 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

Wire diameter: 0,35 - 0,9 mm
Strands diameter: 0,7 - 2,6 mm



Art. No.	weight	PU
30 03 20	70	1

INFO

Crimping pliers

A distinction is made between the following processing tools.

Manually adjustable cable strippers

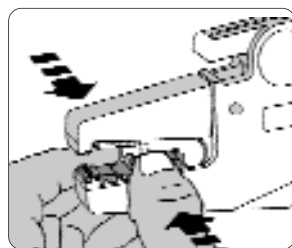
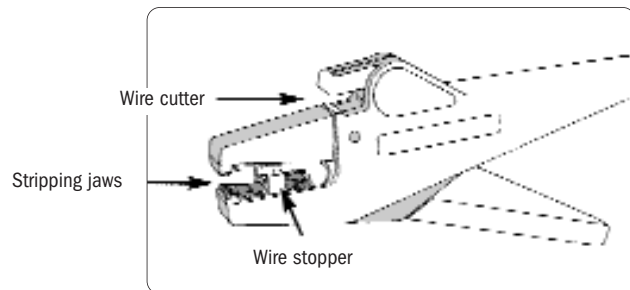
Are set manually to the stripping diameter by feel. Because of this there is a high danger of damaging the wire (HAUPA Article no. 210644+210643).

Automatic or self-adjusting cable strippers

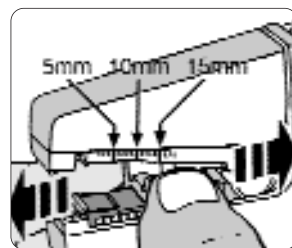
For quick and easy cutting and stripping. These tools adjust themselves automatically to the required cable diameter or insulation thickness. It is not possible to damage the wire or the insulation. A length stopper makes serial stripping a simple matter (HAUPA Article no. 211930+210683+ 21690).

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).

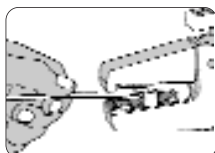


Squeeze wire stopper from both sides

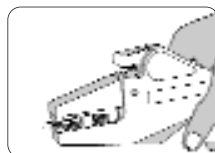


Set the required stripping length

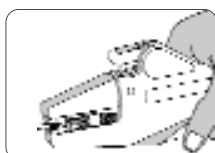
Set the stripping length



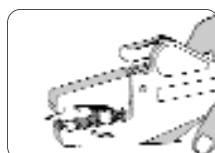
Feed wire to the wire stopper with pliers.



Squeeze plier handles, pliers close automatically



Stripping slide returns.



Release handles, pliers open automatically.

CC-Ø cutting capacity in mm ²	size in mm
length in mm	SQ steel quality
PU packing unit in pieces	SW span width in mm

Wire stripping plier

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.	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.	Ø	length	weight	PU
21 06 82/1	0,5 - 2,5	170	217	1

Quadro complete set in case

in case



Art. No.	Content	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

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

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

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	mm ²	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



Art. No.	length	mm ²	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, PVC, THHN, TWHN, PMMA and lighting wave conductor with PE-cover



Art. No.	mm ²	weight	PU
21 06 84	0,5 - 0,75 - 1,5 - 2,5 - 4	100	6

Wire stripper

for wires up to 6 - 16 mm²



Art. No.	mm ²	weight	PU
21 06 85	6 - 16	120	1

Flat cable pliers

automatic insulation tool for PVC- insulated flat cable up to max. 12 mm, width suitable for flat cable up to 2,50mm²



Art. No.	mm ²	weight	PU
21 06 86	0,75 - 2,50	120	1

Wire stripper

for insulation stripping of fine-wiring and solid conductors with PVC-insulation as well as 4-6-8 pole telephone- or computer cables. Automatic adjustment for conductor diameter



Art. No.	length	mm ²	weight	PU
21 06 90	200	0,03 - 6	180	1

Automatic cable stripper

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



Art. No.	length	weight	PU
21 19 28	160	80	1

Automatic wire stripper

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



Art. No.	length	weight	PU
21 19 30	205	190	1

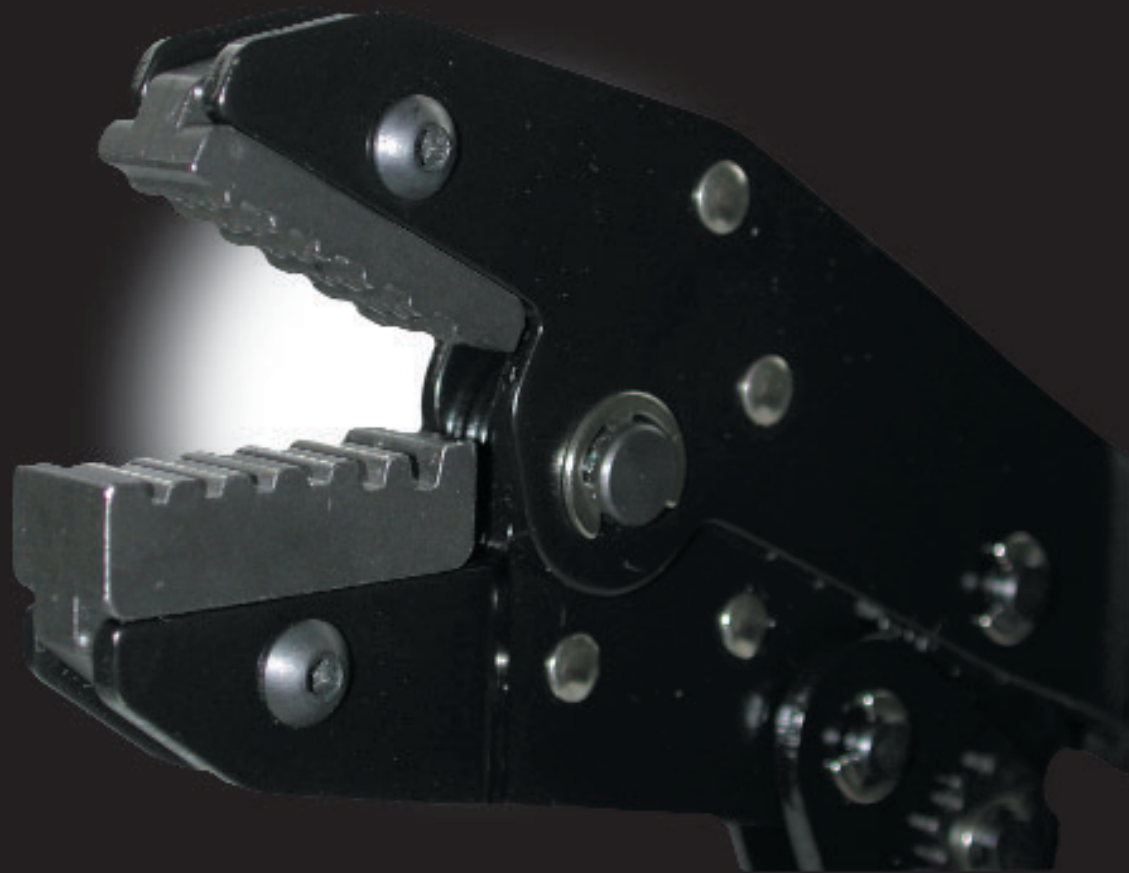
haupa®

...Technology that connects



Crimping (WG 21b, 21c)

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 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 plier

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



Art. No.	crimp	weight	PU
21 07 63	0,5 - 4	500	1
21 08 42	0,5 - 6	540	1
21 07 65	4 - 10	500	1
21 16 72	10 - 25	500	1
21 07 68	10 - 35	450	1
21 16 74	25 - 50	600	1

Crimping plier-Twin

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



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

Crimping plier

easy 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

Crimping scope up to 0,08 to 6mm², adjustable to 10mm², precise square crimping profile, automatic adjustment on wire profile, frontal approach allows working in crowded areas, sidewise approach for end sleeves up to 2,5mm², with locking device, high transmission and ergonomically formed plastic handle, **trapezoid shape**



Art. No.	crimp	weight	PU
21 08 19	0,08 - 6 and 10	500	1

Crimping pliers

Crimping scope up to 0,75 to 10mm², precise square crimping profile, automatic adjustment on wire profile, 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

crimp	..... crimp range in mm ²	length	..... in mm
CS	..... cross section in mm ²	PU	..... packing unit
height	..... in mm	size	..... in mm

Front-Crimping plier

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

SM	..... sectorshape multywiring (mm ²)	width	..... in mm
SS	..... sectorshape singlewiring (mm ²)	Ø	..... in mm
weight	..... in gr.		

Front-Crimping plierwith locking device, **trapezoid crimping**

Art. No.	crimp	weight	PU
21 08 32	0,5 - 4,0	300	1

Crimping plierwith locking device, **trapezoid crimping**

Art. No.	cable-Ø	weight	PU
21 07 88	10 - 50	800	1
Zwillingsanderendhülsen	2 x 4 - 2 x 16		

Crimping plierwith locking device, **trapezoid crimping**

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

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 plier

easy 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 plier

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



Art. No.	crimp	weight	PU
21 07 61	0,5 - 6,0	500	1

Crimping pliers

for insulated connectors, with wire stripping and cable cutter



Art. No.	crimp	weight	PU
21 08 14	0,5 - 6,0	500	1

Crimping plier

heavy construction, with locking device, **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



Art. No.	crimp	weight	PU
21 08 02	1,5 - 6	stripping 0,75 - 6	200
			1

Combi-Crimping pliers

for insulated and noninsulated tube terminals and connectors from 1,5 - 6 mm², C 45, cutting edges inductive hardened, with wire-and bolt-cutters and wire stripper with threaded bolt-cutter



Art. No.	crimp	weight	PU
21 08 08	1,5 - 6	stripping 0,75 - 6	215
			1

crimp crimp range in mm²
 CS cross section in mm²
 height in mm
 length in mm
 PU packing unit
 size in mm

SM sectorshape multywiring (mm²)
 SS sectorshape singlewiring (mm²)
 weight in gr.
 width in mm
 Ø in mm

Crimping plier

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



Art. No.	crimp	weight	PU
21 07 78	0,25 - 2,5	345	1
21 07 79	1,25 - 6 mm ²	345	1

Crimping plier

with locking device, **mandrel shape pressing**



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

Crimping plier

heavy construction, with locking device, with adjustable crimp pressure, **mandrel shape pressing**



Art. No.	crimp	weight	PU
21 07 64	1,5 - 10	450	1

Universal crimping plier

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



Art. No.	length	crimp	abisolier. mm ²	weight	PU
21 08 06	210	1,5 - 6	0,75 - 6	205	6

Crimping pliers

crimpen of **uninsulated contacts**, with closed crimp-sleeve, **mandrel shape pressing**



Art. No.	crimp	weight	PU
21 08 10	0,1 - 10	490	1

Crimping plier

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



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

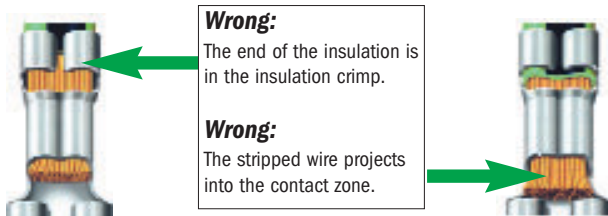
INFO

Crimping pliers for non-insulated 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.



Wrong:
The end of the insulation is in the insulation crimp.

Wrong:
The stripped wire projects into the contact zone.



Correct:
The end of the insulation and the stripped wire are crimped accurately..

To facilitate accurate crimping a positioning aid is available for crimping pliers.

Precision-ground crimp profiles
=> clean crimp

20% angled format
=> handy to use

Adjustable crimping pressure
=> Wear compensation via adjusting screw

Forced block, unblockable
=> guaranteed DIN-compliant crimped connection

Ergonomically formed plastic handles
=> low fatigue work



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

length in mm
PU packing unit
size in mm

Crimping plier

easy 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	470	1
21 16 66	0,1 - 1,0	with Locator	470	1
21 16 68	0,14 - 1,5	with Locator	470	1

Crimping plier

heavy construction, with locking device, with adjustable crimp pressure, **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 for 6,3 mm		20	1
21 16 86	Locator for 4,8 and 2,8 mm		20	1

Crimping plier

heavy construction, for **noninsulated push-on females 90° flag-type**, with locking device, with adjustable crimp pressure, **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-Crimping plier

for electronic connectors DIN 41611, for crimping of leads and isolation-crimps in one operation, **roll crimping**



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

Crimp-Crimping plier

with final-point for processing of noninsulated 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	05 - 6		500	1

SM sectorshape multywiring (mm²)
SS sectorshape singlwiring (mm²)
weight in gr.

width in mm
Ø in mm

Crimping plier for coax-connections



easy construction, 20 % angled handy form, with locking device, with adjustable crimp pressure, **hexagon pressing**



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

Crimping plier for coax-connections



heavy construction, with locking device, with adjustable crimp pressure, **hexagon pressing**



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:

- 4-pole plug for telephone receiver, network device connection,
- 6-pole plug for fax and telephone connection,
- 8-pole plug in ISDN-w-range and PC connections

Crimping plier for modular plug

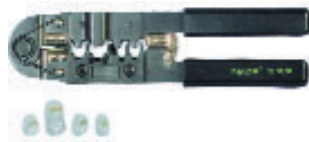
for unshielded modular plugs, inexpensive, lightweight tool for the casual usage, with cable cutter and wire stripper



Art. No.	crimp	weight	PU
21 08 67	4pole plug	535	1
21 08 65	6pole plug	535	1
21 08 69	8pole plug	535	1

Crimping plier for modular plug

for unshielded modular plugs, cutting, stripping, crimping, easy construction (6p, 8p, 6DEC, 4p)



Art. No.	crimp	weight	PU
21 30 50	4, 6, 8pole plug, 6 DEC	300	1

Profi Crimping pliers

heavy version with high precised processing, with cable cutter and wire stripper for RJ-11, RJ-12, RJ-45



Art. No.	crimp	weight	PU
21 08 57	6- und 8pole plug	535	1

Crimping plier for modular plug

for unshielded modular plugs 4, 6 and 8pole plug, version with high precised processing, with cable cutter and wire stripper



Art. No.	crimp	weight	PU
21 08 71	4, 6, 8pole plug	500	1

Crimp-Crimping plier

for modular plug (telecommunication and periphery connections 0,08 - 0,15 mm² (AWG 28 - 26) 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

crimp	..... crimp range in mm ²	length	..... in mm
CS	..... cross section in mm ²	PU	..... packing unit
height	..... in mm	size	..... in mm

Crimping tool

in plastic case, for standard telephone plugs and periphery connections, locking device, without dies



Art. No.	crimp	weight	PU
21 08 22	4-6-8pole plug	440	1

Crimping dies

for Crimping plier 21 08 22



Art. No.	w-range	weight	PU
21 08 11	4- and 6-pole plug standard version	50	1
21 08 12	4 pole plug standard version no for AMP	50	1
21 08 13	8 pole plug small version for telephon	50	1
21 08 21	6 pole plug side version (DEC connector)	50	1

Crimping plier for modular plug

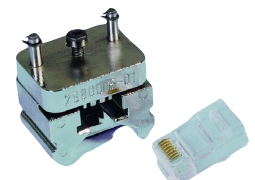
Semi-professional crimping pliers for screened and unshielded Western plugs, with replaceable crimping insets, easy to use, light on the arms due to optimum leverage, optimum crimping, pliers body made of hardened quality steel, quick and simple replacement of crimping insets, adjustable crimping pressure and depth, application area for small and medium series, 50,000 crimps guaranteed.



Art. No.	weight	PU
21 30 00	460	1

Dies

for Crimping plier 21 30 00



Art. No.	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, shielded	70 1 pair
21 30 12	8pole plug, shielded	70 1 pair
21 30 14	10pole plug, shielded	70 1 pair

SM	..... sectorshape multywiring (mm ²)	width	..... in mm
SS	..... sectorshape singlwiring (mm ²)	Ø	..... in mm
weight	..... in gr.		

Crimping plier for modular plug

Professional crimping pliers for screened and unshielded Western plugs, with replaceable crimping insets, 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 insets, adjustable crimping pressure and depth, application area for medium to large series, 50,000 crimps guaranteed.



Art. No.	weight	PU
21 30 20	550	1

Manual crimping tool for Western plugs

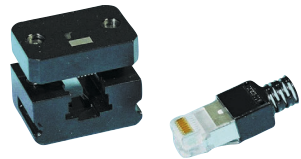
Professional manual crimping tool for screened and unshielded Western plugs, with replaceable steel press insets, easy to use, light on the arms due to optimum leverage, optimum crimping, made of hardened quality steel, quick and simple replacement of crimping insets, adjustable crimping pressure and 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 plier 21 30 20 and Handpress 21 30 70



Art. No.	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
<i>Dies for connector</i>		
21 30 42	for Ø 3,7 mm	100 1 pair
21 30 44	for Ø 4,5 mm	100 1 pair
21 30 46	for Ø 5,2 mm	100 1 pair
21 30 48	for Ø 6,0 mm	100 1 pair

Tool case

for Crimping pliers and dies, plastic case, black

Art. No.	weight	PU
21 30 60	550	1

Crimping plier for Western plugs

Professional crimping pliers for screened Hirose Western 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.	weight	PU
21 30 51	550	1

Crimping plier for Western plugs

Professional crimping pliers for screened Hirose Western 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.	weight	PU
21 30 52	550	1

Crimping plier for Western plugs

Professional crimping pliers for screened Hirose Western 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.	weight	PU
21 30 54	550	1

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 required application and the right cable cross section.

2. Stripping

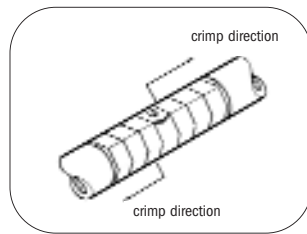
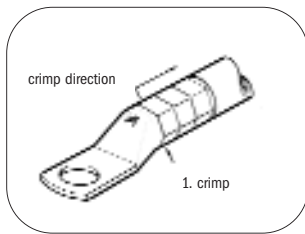
Before notching, the cable must be stripped according to the insertion length (+10% due to change in length of the crimping sleeve).

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

for **noninsulated tube terminals and connectors** 0,75 - 16 mm², lever action, with locking device, **mandrel shape pressing**



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

Crimping pliers

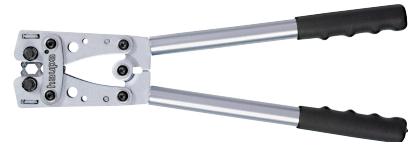
for **noninsulated crimping terminals** 10 - 120 mm², simple using, with puncher and adjustable screw, for different sections, handle PVC-coated, **mandrel shape pressing**



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

Crimping pliers

for **noninsulated tube terminals and connectors** from 6 - 50 mm², with built-in rotatable profile disk, **hexagon pressing**



Art. No.	crimp		weight	PU
21 08 05	6 - 50	standard	1300	1
21 08 05K	6 - 50	DIN	1300	1
21 08 50	10 - 120	standard	3780	1
21 08 53	10 - 120	DIN	3780	1

Crimping plier

for noninsulated tube terminals and connectors, with built-in rotatable profile disk, **mandrel shape pressing**



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

SM sectorshape multywiring (mm²) width in mm
 SS sectorshape singlewiring (mm²) Ø in mm
 weight in gr.

crimp crimp range in mm² length in mm
 CS cross section in mm² PU packing unit
 height in mm size in mm

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 plier

easy 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 plier

easy 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 plier

easy 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

INFO

Technical indication to the different crimping formats

The following crimping formats are generally available for injecting of cables.



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.

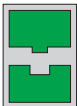
Applications: 0.1 -185 mm²



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.

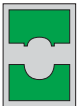
Applications : 0,14 - 6 mm²



WM crimp

for crimping tube terminals „standard“

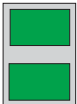
Applications : 10 - 400 mm²



Rounding

for sectorwires 90° and 120°

Applications : 10 sm - 300 sm, 35 se - 300 se



Cutting dies

Crimping plier

for noninsulated tube terminals and connectors, exchange dies from 6 to 185 mm², **without dies**



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

Metalboxes for Crimping plier 21 08 56

for storing of crimping plier 21 08 56 and crimping dies



Art. No.		weight	PU
210856/K	Metalboxes	2100	1

Dies for crimping plier 210856

for tube terminals and connectors „standard-range“, **hexagon pressing**, pressing width 5 mm



Art. No.	Cu (mm)	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 plier 210856

for crimp cable lugs and connectors **DIN 46235/46267**, **hexagon pressing**



Art. No.	Cu (mm ²)	KZ	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

SMsectorshape multywiring (mm²)
 SSsectorshape singlewiring (mm²)
 weightin gr.
 widthin mm
 Øin mm

crimp crimp range in mm²
 CScross section in mm²
 heightin mm
 lengthin mm
 PUpacking unit
 sizein mm

Dies for crimping plier 210856for aluminium cable lugs, **hexagon pressing**

Art. No.	Al (mm ²)	KZ	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 plier 210856tools crimping terminals DIN 46234, **mandrel shape pressing** and pin terminals DIN 46230

Art. No.	(mm ²)	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 plier 210856for **rounding** of square AL- and Cu-conductors (for 3- and 4-sectorwires)

Art. No.	Round of				weight	PU
	square	SS	SM	CS		
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 plier 210856for end sleeves, **trapezoid pressing**

Art. No.	(mm ²)	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 plier 210856for C-sleeves, **oval pressing**

Art. No.	(mm ²)	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 plier 210856**Cutting dies**

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

Dies for crimping plier 210856for **insulated tube terminals and connectors** and insulated pin terminals

Art. No.	(mm ²)	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 plier 210856for insulated crimping terminals, **spike/bolt/punch pressing**

Art. No.	(mm ²)	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.

haupa[®]**...Technology that connects**

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 reproduction 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 connection point 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 transported directly to the installation on the connecting part. 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.



Mechanical hand crimping tool

for crimping terminals, connectors, end-sleeves, with ratchet and built-in-force-blocking device, crimping pressure 20 kN



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

Metalboxes

for storing of crimping pliers and dies



Art. No.	weight	PU
21 50 02	Metalboxes	4600

crimp	..... crimping range in mm ²	IF	..... identification figure
CS	..... cross section in mm ²	length	..... in mm
height	..... in mm	PU	..... packing unit in pieces

SS, SM	..... sectorshape singlewiring/multiwiring	weight	..... in gr.
text	..... article text	width	..... in mm
tot. length	..... total length in mm	Ø	..... in mm

Crimping dies for 21 50 00

The crimping insets 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 21 50 00

for crimping terminals and connectors, standard range, **WM-form**



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 for 21 50 00

for crimping terminals DIN 46234 and pin terminals, **mandrel shape pressing**



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 tool	20 1

Crimping dies for 21 50 00

for insulated crimping terminals DIN 46234, **ovalpressing**



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

Crimping dies for 21 50 00

for crimping terminals DIN 46235 and Al-terminals, **hexagon shape**



Art. No.	Cu	Al	KZ	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 21 50 00

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.

haupa

...Technology that connects

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 w-range of solder-free connection technology thanks to a comprehensive range of crimping insets.

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 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.



Product-specific features

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

Mechanical hand crimping tool

for crimping terminals, connectors, end-sleeves, with ratchet and built-in-force-locking device, crimping pressure 50 kN



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

Metalboxes

for storing of crimping pliers and dies



Art. No.	Metalboxes	weight	PU
21 51 02		4600	1

crimp	..... crimping range in mm ²	IF	..... identification figure
CS	..... cross section in mm ²	length	..... in mm
height	..... in mm	PU	..... packing unit in pieces

SS, SM	..... sectorshape singl wiring/multi wiring	weight	..... in gr.
text	..... article text	width	..... in mm
tot. length	..... total length in mm	Ø	..... in mm

Crimping dies for 21 51 00

The crimping insets 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-form**

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 crimping terminals DIN 46234 and 46341, upper and lower tools are necessary, **mandrel shape pressing**



Please order the top and bottom tools separately.

Art. No.	CS	weight	PU
21 51 14	6 - 70 mark	350	1 pair
21 51 16	10/16/25/35 quadruple die	350	1 pair
21 51 18	16/25/35/50 quadruple die	350	1 pair
21 51 20	6/50 double die	400	1 pair
21 51 22	70 single die	400	1 pair

Crimping dies for 21 51 00

for insulated crimping terminals DIN 46234 and 46341, **oval shape pressing**

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 46235 and Al-terminals, **WM-form**

Art. No.	Cu	Al	KZ	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, crimping width: 16 mm, **round-press-form**



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.

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.

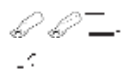


Product-specific features

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

Mechanical hand crimping tool

for crimping terminals, connectors, end-sleeves, with ratchet and built-in-force-locking device



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

Metalboxes

for storing of crimping pliers and dies



Art. No.	weight	PU
21 52 02	Metalboxes	4600

crimp	..... crimping range in mm ²	IF	..... identification figure
CS	..... cross section in mm ²	length	..... in mm
height	..... in mm	PU	..... packing unit in pieces

SS, SM	..... sectorshape singlewiring/multiwiring	weight	..... in gr.
text	..... article text	width	..... in mm
tot. length	..... total length in mm	Ø	..... in mm

Crimping dies for 21 52 00

The crimping insets 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 DIN 46235 and AL-terminals, **hexagon shape**



Art. No.	Cu	Al	KZ	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, crimping width: 16 mm, **square shape**



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

Crimping dies for 21 52 00

for crimping terminals and connectors, standard range, **WM-shape**



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 crimping terminals DIN 46234 and 46341, upper and lower tools are necessary, **mandrel shape pressing**



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

Tip

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

haupa[®]

...Technology that connects

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.



Mechanical hand crimping tool

for crimping terminals, connectors, end-sleeves, with ratchet and built-in-force-locking device, crimping pressure 100 kN



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

Tool bag

made of durable plastic leather with lower parts for crimping dies



Art. No.	weight	PU
21 53 66	1200	1

crimp	..... crimping range in mm ²	IF	..... identification figure
CS	..... cross section in mm ²	length	..... in mm
height	..... in mm	PU	..... packing unit in pieces

SS, SM	..... sectorshape singl wiring/multiwiring	weight	..... in gr.
text	..... article text	width	..... in mm
tot. length	..... total length in mm	Ø	..... in mm

Crimping dies

Crimping dies for 21 53 00

The crimping insets 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, **round-press-form**



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-shape**



Art. No.	(mm ²)	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 46235 and AL-terminals, **hexagon shape**



Art. No.	Cu	Al	KZ	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.

haupa[®]
...Technology that connects



Hydraulic crimping tools

Crimping without effort
Universally usable
Poor in maintenance



INFO

Hydraulic crimping tools

These hydraulic crimping tools are produced from high-quality materials and distinguish themselves by a qualitatively 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 arbitrarily in the butt or the head. The crimping dies are compatible for 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 insets. 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 215586



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

without dies - Please, separately order

Hydraulic hand plier

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



same crimping headstock as 21 55 86



Art. No. 21 57 55

Pressure:		50 kN
Crimping range:	DIN cable lugs:	185 mm ²
	standard copper	240 mm ²
	aluminium	150 mm ²
Dimension:		350 x 120 mm
Weight:		2,4 kg
Weight Set:		4,6 kg

Accu crimping tool

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



Art. No. 21 55 86

Pressure:		55 kN
Crimping range:	DIN cable lugs:	185 mm ²
	standard copper	240 mm ²
	aluminium	150 mm ²
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 crimping headstock

Crimping head 180 ° swivelling, with fast opening, for crimping tool 21 55 86 and 21 57 50 and compatible with hydraulic pumps (page 53)



Art. No. 21 57 60

Pressure:		55 kN
Crimping range:	DIN cable lugs:	185 mm ²
	standard copper	240 mm ²
	aluminium	150 mm ²
Working pressure:		max. 700 bar
Dimension:		185 x 75 mm
Weight:		1,5 kg

crimp crimping range in mm²
 CS cross section in mm²
 height in mm
 IF identification figure
 length in mm
 PU packing unit in pieces

SS, SM sectorshape singlewiring/multiwiring weight in gr.
 text article text width in mm
 tot. length total length in mm Ø in mm

Crimping dies for 21 55 86

The crimping insets 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

DIN aluminium, **hexagon shape**



Art. No.	Al	KZ	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
21 55 48/A	185	28	100	1 pair

Crimping dies

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 connectors, **hexagon shape**



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 end sleeves, **trapezoid crimping**



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

Crimping dies for 21 55 86

DIN, **hexagon shape**



Art. No.	Cu	KZ	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.

haupa[®]

...Technology that connects

Hydraulic hand plier

with crimp head, form H, 180° revolving, for changeable crimping dies according DIN 48083 BI 4, twin piston pump with automatic changing for two different speeds (high and low pressure) and maximum pressure valve, pressure 50 kN, DIN Cu up to 185 mm², DIN Al up to 150 mm², standard up to 240 mm²



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 plier 21 58 00



Art. No.		weight	PU
21 58 02	Metalboxes	1500	1

Crimping dies for 21 58 00

The crimping insets 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 usual connectors, **hexagon shape**



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

Crimping dies

DIN, **hexagon shape**



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

Crimping dies

DIN aluminium, **hexagon shape**



Art. No.	Al	KZ	weight	PU
21 55 36	25	12	100	1 pair
21 55 38	35	14	100	1 pair
21 55 40	50	16	100	1 pair
21 55 42	70	18	100	1 pair
21 55 44	95/120	22	100	1 pair
21 55 46	150	25	100	1 pair
21 55 48	185	28	100	1 pair

crimp crimping range in mm²
 CS cross section in mm²
 height in mm
 IF identification figure
 length in mm
 PU packing unit in pieces

SS, SM sectorshape singlewiring/multiwiring weight in gr.
 text article text width in mm
 tot. length total length in mm Ø in mm

Crimping dies

for **rounding** of square conductors

Art. No.	SM	SS	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 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

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 qualitatively perfect processing of the connectors.

All the crimping insets 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 insets is identical for assembly in both the piston and the head. The insets 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 insets, in both cases the respective unblocking button must be pressed. The crimping insets are compatible for 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 insets. 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.

Accu crimping tool

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



Art. No. 21 66 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	150 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:		400 x 270 mm
Weight:		7,0 kg
Weight Set:		13,6 kg

crimp crimping range in mm²
 CS cross section in mm²
 height in mm
 IF identification figure
 length in mm
 PU packing unit in pieces

Extent of supply 21 66 00

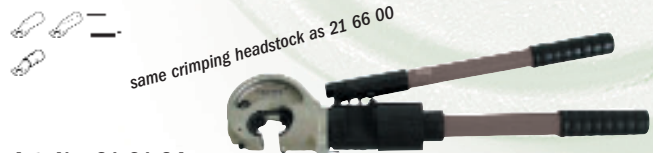


1 Crimping tool, 1 loading charger, 2 accus, carrying belt, in black metal suitcase

without dies - Please, separately order

Hydraulic hand plier

C-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 180° swivelling, with fast opening, for crimping tool 21 66 00 and 21 61 24 and compatible with hydraulic pumps (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

SS, SM sectorshape singlewiring/multiwiring weight in gr.
 text article text width in mm
 tot. length total length in mm Ø in mm

Crimping dies

for usual connectors, **hexagon shape**



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, **hexagon shape**



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

Crimping dies

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 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 insulated tube terminals, **ovalpressing**



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

C-connectors crimping dies, **ovalpressing**



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.

INFO

Hydraulic crimping tools

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

All the crimping insets 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 insets 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 insets, in both cases the respective unblocking button must be pressed. The crimping insets are compatible for 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 insets. 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.

Accu crimping tool

Crimping head 180 ° swivelling, with fast opening, manual return flow after perfect pressure, in black metal suitcase, 1 loading charger, 2 accus, carrying belt, manual 2 step hydraulic, **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 crimping range in mm² IF identification figure
 CS cross section in mm² length in mm
 height in mm PU packing unit in pieces

Extent of supply 21 65 00



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

without dies - Please, separately order

Hydraulic hand plier

Crimping head 180 ° swivelling, manual return flow after perfect pressure, manual 2 step hydraulic, 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

C-crimping head 180 ° swivelling, with fast opening, for crimping tool 21 65 00 and 21 59 46 and compatible with hydraulic pumps (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

SS, SM sectorshape singl wiring/multiwiring weight in gr.
 text article text width in mm
 tot. length total length in mm Ø in mm

Crimping dies

for usual connectors, hexagon shape



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, hexagon shape



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

Crimping dies

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 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 insulated tube terminals, ovalpressing



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

C-connectors crimping dies, ovalpressing



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.

Hydraulic crimping headstock

for noninsulated terminals 95 - 630 mm², pressure 250 kN, for crimping dies hexagon shape according to DIN 48083 page 3 and 4, crimping headstock for pump Art. No. 21 63 48 and 21 63 52



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

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	KZ	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

Hydraulic crimping headstock set

Content: 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.	Crimping range	weight	PU
21 62 50	95 - 630	21000	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.	Al	KZ	weight	PU
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
21 23 72	70	18	100	1 pair

Transport case

black Metalboxes for Hydraulic crimping headstock set



Art. No.	weight	PU
21 62 51	1500	1

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

IF identification figure
length in mm
PU packing unit in pieces

SS, SM sectorshape singlewiring/multiwiring weight in gr.
text article text width in mm
tot. length total length in mm Ø in mm

Hydraulic crimping headstock

for terminals and butt space connectors, 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 current bars, leakage-free socket-joint connection, crimping head is re-jointable from the crimping cylinder, both parts will be delivered separately, please order separately with the nos. stated below, for all hydraulic pumps (page 53)



Art. No. 21 63 00/21 63 02

Pressure:	200 kN
Crimping range:	DIN cable lugs: 1000 mm ²
	standard copper 630 mm ²
	aluminium 300 mm ²
Working pressure:	max. 700 bar
Dimension:	185 x 75 mm
Weight:	1,5 kg

Crimping dies for 21 63 02

for terminals and connectors, **WM-shape**



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

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



Art. No.	Cu	Al	KZ	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

twin-cam pump with automatic switch over and maximum-pressure valve, 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

haupa®

...Technology that connects

INFO

Electrohydraulic punching tools

The electrohydraulic punching tools are made from high quality materials and are characterised by qualitatively perfect and problem-free processing 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.

Electrohydraulic punching tools

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



Art. No. 21 67 00

Pressure:	60 kN
Crimping 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

crimp	..... crimping range in mm ²	IF	..... identification figure
CS	..... cross section in mm ²	length	..... in mm
height	..... in mm	PU	..... packing unit in pieces

Crimping dies

metric



Art. No.	metric	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

Crimping dies

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

Crimping dies

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

SS, SM	..... sectorshape singlewing/multiwiring	weight	..... in gr.
text	..... article text	width	..... in mm
tot. length	..... total length in mm	Ø	..... in mm

Expendable items(WG 26)

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

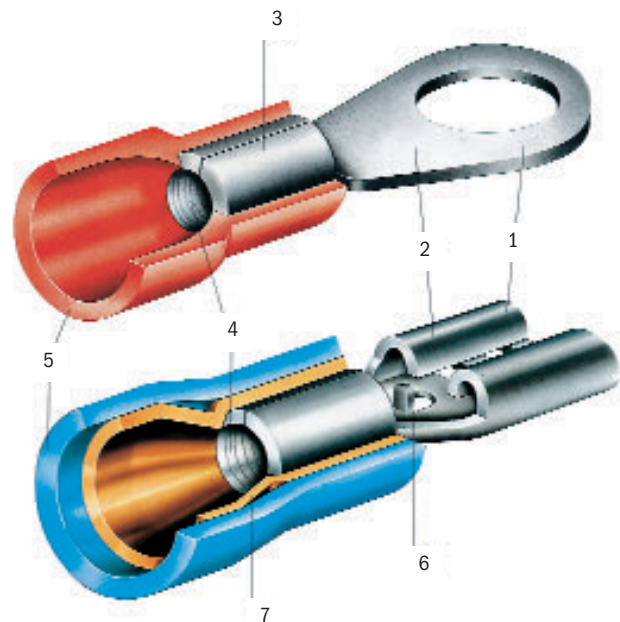
The crimping terminals are treated with processes of electrolytic tin plating. This method guarantees the maximum adhesion of tin to the crimping terminal surface in order to reduce the electrical resistance to a minimum and to maximize the protection against corrosion.

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 copper tinned

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.



Ring type

PVC-insulated with extended insulating sleeve, suitable for harmonized cable

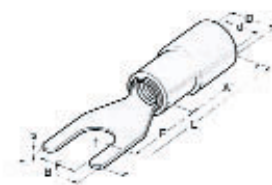
Art. No.	CS	M	F	B	A	E	L	d	D	s	weight	PU
26 02 50	0,25 - 1,5	2,5	2,60	8	10,4	8,60	22,2	1,95	4,20	0,8	60	100/500
26 02 51	0,25 - 1,5	3	3,15	8	10,4	8,60	22,2	1,95	4,20	0,8	60	100/500
26 02 52	0,25 - 1,5	3	3,20	5,5	10,4	4,40	15,4	1,95	4,20	0,8	55	100/500
26 02 54	0,25 - 1,5	3,5	3,60	8	10,4	7,80	22,2	1,95	4,20	0,8	55	100/500
26 02 56	0,25 - 1,5	4	4,20	8	10,4	7,50	22,0	1,95	4,20	0,8	70	100/500
26 02 58	0,25 - 1,5	5	5,20	8	10,4	8,00	22,4	1,95	4,20	0,8	90	100/500
26 02 60	0,25 - 1,5	6	6,20	10	10,4	8,60	23,7	1,95	4,20	0,8	80	100/500
26 02 62	0,25 - 1,5	8	8,30	14	10,4	12,60	30,0	1,95	4,20	0,8	130	100/500
26 02 64	0,25 - 1,5	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	1,5 - 2,5	3	3,20	8	11,0	8,00	23,0	2,45	4,80	0,8	65	100/500
26 02 67	1,5 - 2,5	3	3,20	6,4	11,0	4,30	18,5	2,45	4,80	0,8	65	100/500
26 02 68	1,5 - 2,5	3,5	3,70	8	11,0	8,00	23,0	2,45	4,80	0,8	65	100/500
26 02 70	1,5 - 2,5	4	4,20	8	11,0	8,00	23,0	2,45	4,80	0,8	80	100/500
26 02 72	1,5 - 2,5	5	5,20	10	11,0	9,80	26,0	2,45	4,80	0,8	90	100/500
26 02 74	1,5 - 2,5	6	6,20	11	11,0	11,70	28,0	2,45	4,80	0,8	110	100/500
26 02 76	1,5 - 2,5	8	8,20	15	11,0	14,50	33,0	2,45	4,80	0,8	130	100/500
26 02 78	1,5 - 2,5	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	2,5 - 6,0	4	4,20	8	14,0	8,40	26,5	3,50	6,60	1	50	100/500
26 02 86	2,5 - 6,0	5	5,20	10	14,0	10,20	29,6	3,50	6,60	1	50	100/500
26 02 88	2,5 - 6,0	6	6,20	11	14,0	11,00	30,6	3,50	6,60	1	100	100/500
26 02 90	2,5 - 6,0	8	8,20	15	14,0	15,30	37,0	3,50	6,60	1	100	100/500
26 02 92	2,5 - 6,0	10	10,50	19	14,0	16,50	40,0	3,50	6,60	1	110	100/500



Fork type

PVC-insulated with extended insulating sleeve, suitable for harmonized cable

Art. No.	CS	M	F	B	A	E	L	d	D	s	weight	PU
26 03 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	0,25 - 1,5	3	3,20	5,6	10,4	6,70	20,0	1,95	4,20	0,8	60	100/500
26 03 02	0,25 - 1,5	3,5	3,70	6,5	10,4	6,50	19,4	1,95	4,20	0,8	60	100/500
26 03 04	0,25 - 1,5	4	4,20	6,4	10,4	6,30	20,9	1,95	4,20	0,8	70	100/500
26 03 06	0,25 - 1,5	5	5,20	8,0	10,4	8,00	21,2	1,95	4,20	0,8	90	100/500
26 03 08	0,25 - 1,5	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	1,5 - 2,5	3	3,20	5,6	11,0	8,40	23,0	2,45	4,80	0,8	65	100/500
26 03 12	1,5 - 2,5	3,5	3,70	6,6	11,0	5,30	20,3	2,45	4,80	0,8	63	100/500
26 03 14	1,5 - 2,5	4	4,20	6,6	11,0	5,30	20,3	2,45	4,80	0,8	80	100/500
26 03 16	1,5 - 2,5	5	5,20	9,1	11,0	9,50	25,0	2,45	4,80	0,8	90	100/500
26 03 18	1,5 - 2,5	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	2,5 - 6,0	4	4,20	8,1	14,0	7,20	26,0	3,50	6,60	1	140	100/500
26 03 22	2,5 - 6,0	5	5,20	9,0	14,0	10,50	28,5	3,50	6,60	1	160	100/500
26 03 24	2,5 - 6,0	6	6,30	11,0	14,0	11,00	29,5	3,50	6,60	1	170	100/500
26 03 26	2,5 - 6,0	8	8,20	15,2	14,0	15,00	35,2	3,50	6,60	1	230	100/500
26 03 28	2,5 - 6,0	10	10,50	19,0	14,0	16,60	38,0	3,50	6,60	1	300	100/500



Blade pin

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	0,25 - 1,5	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	1,5 - 2,5	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	2,5 - 6,0	4,5	13,5	18,2	31,7	3,4	6,80	100	100/500



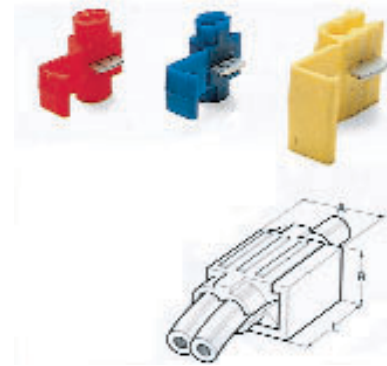
haupa®

...Technology that connects

Rapid connectors

housing material: (PP) polypropylen/voltage rating: 380 V, Maximum temperature 90°C

Art. No.	CS	A	B	L	weight	PU
26 03 36	0,25 - 1,5	13,5	10,0	19,5	100	100/500
26 03 37	1,25 - 2,5	13,5	10,0	20,5	100	100/500
26 03 38	2,5 - 6,0	17,0	10,0	20,5	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, IMQ - C.S. E-B 170 (0,5 - 1,5 mm²), E-B 171 (0,5 - 2,5 mm²), E-B 172 (4 - 6 mm²),

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	0,25 - 1,5	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	1,5 - 2,5	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

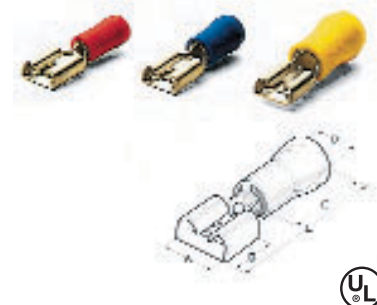


Socket sleeve (female)

brass tinned, PVC-insulated, with antivibration copper sleeve

* Easy Entry

Art. No.	CS	plug	A	B	E	L	D	weight	PU
26 03 92*	0,25 - 1,5	6,3 x 0,8	6,6	7,8	9,5	20,5	3,5	100	100/500
26 04 00	0,25 - 1,5	5,2 x 0,8	5,5	6,4	9,5	18,7	3,5	100	100/500
26 03 84*	0,25 - 1,5	4,8 x 0,5	5,0	6,0	9,5	18,7	3,5	100	100/500
26 03 86*	0,25 - 1,5	4,8 x 0,8	5,0	6,0	9,5	18,7	3,5	100	100/500
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*	0,25 - 1,5	2,8 x 0,8	3,2	6,4	9,5	17,9	3,5	100	100/500
26 03 94*	1,5 - 2,5	6,3 x 0,8	6,6	7,8	9,5	20,5	4,3	100	100/500
26 04 02	1,5 - 2,5	5,2 x 0,8	5,5	6,4	9,5	18,7	4,3	100	100/500
26 03 88*	1,5 - 2,5	4,8 x 0,5	5,0	6,0	9,5	18,7	4,3	100	100/500
26 03 90*	1,5 - 2,5	4,8 x 0,8	5,0	6,0	9,5	18,7	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	2,5 - 6,0	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

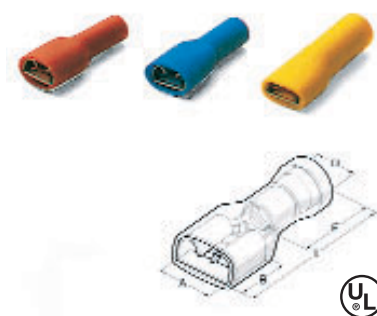
Art. No.	CS	plug	A1	A2	B1	B2	E	L	D	weight	PU
26 04 10	0,25 - 1,5	6,3 x 0,8	6,6	6,3	7,8	8	9,5	22,2	3,5	110	100/500
26 04 12	1,5 - 2,5	6,3 x 0,8	6,8	6,3	7,8	8	9,5	22,2	4,3	110	100/500



Socket sleeve (female), totally insulated

* Easy Entry

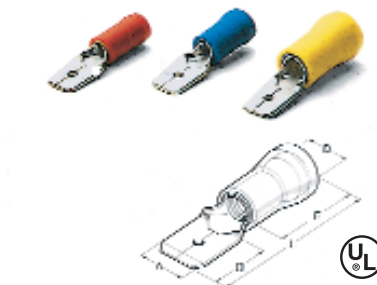
Art. No.	CS	plug	A	B	E	L	D	weight	PU
26 04 14*	0,25 - 1,5	6,3 x 0,8	6,6	6,8	11	22	2,7	100	100/500
26 04 15*	0,25 - 1,5	4,8 x 0,8	5,0	6,0	11	20	2,7	100	100/500
26 04 16*	1,5 - 2,5	6,3 x 0,8	6,6	6,8	11	22	3,2	100	100/500
26 04 17*	1,5 - 2,5	4,8 x 0,8	5,0	6,0	11	20	3,2	100	100/500
26 04 18	2,5 - 6,0	6,3 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 04 22	0,25 - 1,5	6,3	8	10,0	20,5	3,5	100	100/500
26 04 24	1,5 - 2,5	6,3	8	10,0	20,5	4,0	100	100/500
26 04 26	2,5 - 6,0	6,3	8	13,5	24,5	5,5	100	100/500



haupa®

...Technology that connects

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

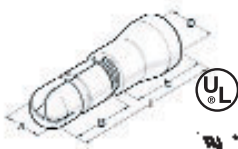
Art. No.	CS	A	B	E	L	D	weight	PU
26 04 40*	0,25 - 1,5	4	8,7	9,5	20,2	3,5	60	100/500
26 04 42*	1,5 - 2,5	5	8,7	9,5	20,7	4,3	120	100/500
26 04 43*	1,5 - 2,5	4	8,7	9,5	20,2	4,3	130	100/500
26 04 44	2,5 - 6,0	5	12,0	13,0	25,0	6,5	130	100/500



Bullet

* Easy Entry

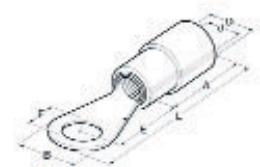
Art. No.	CS	A	B	E	L	D	weight	PU
26 04 46*	0,25 - 1,5	4	8,7	9,5	20,2	3,5	100	100/500
26 04 48*	1,5 - 2,5	5	8,7	9,5	20,7	4,3	100	100/500
26 04 49*	1,5 - 2,5	4	8,7	9,5	20,2	4,3	100	100/500
26 04 50	2,5 - 6,0	5	10,0	13,5	25,0	6,5	110	100/500



Ring type

ring type, 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	0,25 - 1,5	3,5	3,6	8,0	10,4	7,8	22,2	1,95	4,2	0,8	20	100/500
26 06 56	0,25 - 1,5	4,0	4,2	8,0	10,4	7,5	22,0	1,95	4,2	0,8	20	100/500
26 06 58	0,25 - 1,5	5,0	5,2	8,0	10,4	8,0	22,4	1,95	4,2	0,8	25	100/500
26 06 60	0,25 - 1,5	6,0	6,2	10,0	10,4	8,6	23,7	1,95	4,2	0,8	25	100/500
26 06 62	0,25 - 1,5	8,0	8,3	14,0	10,4	12,6	30,0	1,95	4,2	0,8	25	100/500
26 06 64	0,25 - 1,5	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	1,5 - 2,5	3,5	3,7	8,0	11,0	8,0	23,0	2,45	4,8	0,8	60	100/500
26 06 70	1,5 - 2,5	4,0	4,2	8,0	11,0	8,0	23,0	2,45	4,8	0,8	55	100/500
26 06 72	1,5 - 2,5	5,0	5,2	10,0	11,0	9,8	26,0	2,45	4,8	0,8	70	100/500
26 06 74	1,5 - 2,5	6,0	6,2	11,0	11,0	11,7	28,0	2,45	4,8	0,8	90	100/500
26 06 76	1,5 - 2,5	8,0	8,2	15,0	11,0	14,5	33,0	2,45	4,8	0,8	80	100/500
26 06 78	1,5 - 2,5	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	2,5 - 6,0	5,0	5,2	10,0	14,0	10,2	29,6	3,50	6,6	1,0	80	100/500
26 06 88	2,5 - 6,0	6,0	6,2	11,0	14,0	11,0	30,6	3,50	6,6	1,0	80	100/500
26 06 90	2,5 - 6,0	8,0	8,2	15,0	14,0	15,3	37,0	3,50	6,6	1,0	90	100/500
26 06 92	2,5 - 6,0	10,0	10,5	19,0	14,0	16,5	40,0	3,50	6,6	1,0	110	100/500



CS cross section in mm²
 height in mm
 length in mm

M bolt M in mm
 plug flat plug
 PU packing unit in pieces

weight in g
 width in mm

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

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	0,25 - 1,5	3,5	3,7	6,5	10,4	6,5	19,4	1,95	4,2	0,8	300	100/500
26 07 04	0,25 - 1,5	4,0	4,2	6,4	10,4	6,3	20,9	1,95	4,2	0,8	350	100/500
26 07 06	0,25 - 1,5	5,0	5,2	8,0	10,4	8,0	21,2	1,95	4,2	0,8	450	100/500
26 07 08	0,25 - 1,5	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	1,5 - 2,5	4,0	4,2	6,6	11,0	5,3	20,3	2,45	4,8	0,8	325	100/500
26 07 16	1,5 - 2,5	5,0	5,2	9,1	11,0	9,5	25,0	2,45	4,8	0,8	400	100/500
26 07 18	1,5 - 2,5	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	2,5 - 6,0	4,0	4,2	8,1	14,0	7,2	26,0	3,50	6,6	1,0	550	100/500
26 07 22	2,5 - 6,0	5,0	5,2	9,0	14,0	10,5	28,5	3,50	6,6	1,0	800	100/500
26 07 24	2,5 - 6,0	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

Art. No.	length	width	height	Fächer	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



haupa®

...Technology that connects

Assortements insulated terminals

Contents:

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 plier 21 08 02

Art. No.	weight
26 07 60	3500



Assortements insulated terminals

Contents:

1 metal case
 1 crimping plier, con. range 0,25 - 6 mm²
 700 insulated terminals ring type
 150 insulated terminals fork type
 150 insulated terminals round pin
 50 socket sleeves insulated (female)

Art. No.	weight	PU
26 07 62	3500	1



Assortement insulated terminals

Contents:

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 plier 21 08 02

Art. No.	weight	PU
26 07 64	3700	1
26 20 48	3400	1
	without plier	



Terminals for the wiring of electric-meters

insulated terminals fork type

Art. No.	CS	M	colour	weight	PU
26 08 58	10	5	red	750	50
26 08 60	10	6	red	800	50
26 08 62	16	5	blue	850	50
26 08 63	16	8	blue	900	50



Terminals for the wiring of electric-meters

insulated terminals ring type

Art. No.	CS	M	colour	weight	PU
26 08 90	10	5	red	50	100
26 08 91	10	6	red	100	100
26 08 92	10	8	red	500	100
26 08 93	10	10	red	600	100
26 08 95	10	5	blue	50	100
26 08 96	10	6	blue	100	100
26 08 97	10	8	blue	100	100
26 08 98	10	10	blue	200	100
26 08 99	10	12	blue	200	100
26 09 00	10	-	red	350	100



Pliers for:

insulated crimping terminals

CS	crimping plier	mechan. plier	pneum. hydraul. plier	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

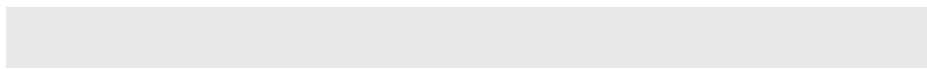
Pliers for:

insulated crimping terminals

CS	crimping plier	mechan. plier	pneum. hydraul. plier	catalouge-page
10,0 - 16	21 08 27			24
		21 50 00		34
10,0 - 35		21 51 00		36

haupa[®]

...Technology that connects



Expendable items(WG 27)

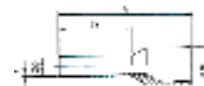
End sleeves



End sleeves

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

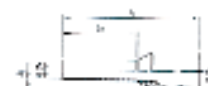
Art. No.	CS	colour	d1	d3	l1	l2	s1	weight	PU
27 08 00	0,5	white	1,1	3,1	14	8	0,15	0,07	100
27 08 01	0,5	white	1,1	3,1	14	8	0,15	0,07	500
27 08 02	0,75	grey	1,25	3,3	14	8,2	0,15	0,08	500
27 08 03	0,75	grey	1,25	3,3	14	8,2	0,15	0,08	100
27 08 04	1	red	1,5	3,5	14,6	8,2	0,15	0,1	100
27 08 05	1	red	1,5	3,5	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

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

Art. No.	CS	colour	d1	d3	l1	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
 height in mm
 length in mm

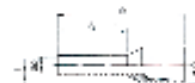
M bolt M in mm
 plug flat plug
 PU packing unit in pieces

weight in gr.
 width in mm

End sleeves

insulated, copper-tinned, colour range II

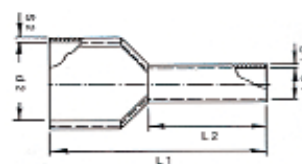
Art. No.	NQ	colour	d1	d3	l1	l2	s1	weight	PU
27 07 14	0,25	light blue	0,8	2,3	10,4	6,0	0,15	0,045	100
27 07 15	0,25	light blue	0,8	2,3	10,4	6,0	0,15	0,045	500
27 07 16	0,34	light blue	0,8	2,5	10,4	6,0	0,15	0,045	500
27 07 19	0,5	orange	1,1	3,1	14,0	8,0	0,15	0,07	100
27 07 20	0,5	orange	1,1	3,1	14,0	8,0	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



Twin-end sleeves for two wires

copper-tinned, exercise temperature max. 120° C, permanent: max. 105° C

Art. No.	NQ	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	500
27 07 80	0,75 x 2	grey	15,0	8,0	1,8	0,15	2,8/5,0	0,25	14	500
27 07 82	0,75 x 2	grey	17,0	10,0	1,8	0,15	2,8/5,0	0,25	15	500
27 07 84	1,0 x 2	red	15,0	8,0	2,05	0,15	3,4/5,4	0,30	17	500
27 07 87	1,0 x 2	red	17,0	10,0	2,05	0,15	3,4/5,4	0,30	18	500
27 07 88	1,5 x 2	black	16,0	8,0	2,3	0,15	3,6/6,6	0,30	20	500
27 07 90	1,5 x 2	black	20,0	12,0	2,3	0,15	3,6/6,6	0,30	24	500
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



Assortment box with Twin end sleeves

Contents:

50 pieces grey, 0,75 mm², Art. or. 27 07 80

50 pieces red, 1,0 mm², Art. No. 27 07 84

50 pieces black, 1,5 mm², Art. No. 27 07 88

50 pieces blue, 2,5 mm², Art. No. 27 07 92



Art. No.	weight	PU
27 07 95	50	1

haupa®

...Technology that connects

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. Nr. 27 08 14
- 20 pieces black, 6 mm², Art. Nr. 27 07 38
- 20 pieces ivory, 10 mm², Art. Nr. 27 07 42
- 10 pieces green, 16 mm², Art. Nr. 27 07 46



Art. No.	weight	PU
27 08 56	50	1

Dispenser boxes with insulated end sleeves

Contents: colour range II

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

Dispenser boxes

without contents



Art. No.	weight	PU
27 08 70	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 09

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

1 crimping plier, con. range 0,5 - 2,5 mm²

metal container 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. No. 27 00 21

200 Super-end sleeves 8 mm x 1,0 mm², Art. No. 27 08 04

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

200 Super-end sleeves 8 mm x 2,5 mm², Art. No. 27 00 29

100 Super-end sleeves 9 mm x 4,0 mm², Art. No. 27 00 33

100 Super-end sleeves 12 mm x 6,0 mm², Art. No. 27 00 38

100 Super-end sleeves 18 mm x 10,0 mm², Art. No. 27 00 44

50 Super-end sleeves 18 mm x 16,0 mm², Art. No. 27 00 48

1 crimping plier, con. range 0,75 - 16,0 mm²

metal container 370 x 160 x 40 mm



Art. No.	weight	PU
27 08 82	1800	1

haupa[®]

...Technology that connects

End sleeve assortment

insulated end sleeves, colour range III, DIN-series

Containing:

- 300 Super-end sleeves 8 mm x 0,75 mm², Art. No. 27 08 03
- 300 Super-end sleeves 8 mm x 1,0 mm², Art. No. 27 08 04
- 300 Super-end sleeves 8 mm x 1,5 mm², Art. No. 27 08 08
- 300 Super-end sleeves 8 mm x 2,5 mm², Art. No. 27 08 10
- 300 Super-end sleeves 9 mm x 4,0 mm², Art. No. 27 08 14
- 1 crimping plier, con. range 0,5 - 4,0 mm²
- metal container 370 x 160 x 40 mm

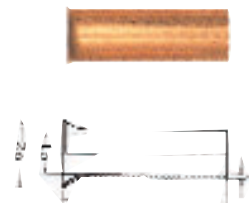
Art. No.	weight	PU
27 08 84	1800	1



End sleeves

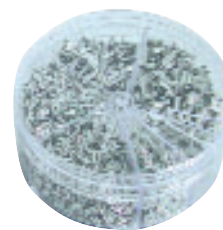
copper-tinned, bright, DIN 46228, part 1

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 noninsulated 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 noninsulated end sleeves

Containing: end sleeves
 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

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 plier, con. 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. Nr. 27 00 72
 1000 end sleeves 6 mm x 1,0 mm², Art. Nr. 27 00 76
 1000 end sleeves 7 mm x 1,5 mm², Art. Nr. 27 00 80
 500 end sleeves 7 mm x 2,5 mm², Art. Nr. 27 00 88
 500 end sleeves 9 mm x 4,0 mm², Art. Nr. 27 00 94
 500 end sleeves 10 mm x 6,0 mm², Art. Nr. 27 01 00
 250 end sleeves 18 mm x 10,0 mm², Art. Nr. 27 01 12
 250 end sleeves 18 mm x 16,0 mm², Art. Nr. 27 01 18
 1 crimping plier, con. range 0,75 - 16,0 mm²
 metal box 370 x 160 x 40 mm

Art. No.	weight	PU
27 00 39	1400	1



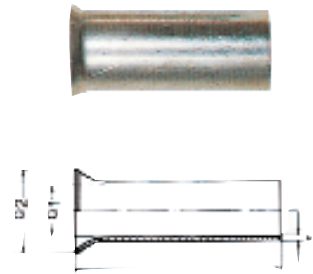
haupa[®]

...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	1000
27 01 02	6	3,5	4,7	12	0,2	0,270	1000
27 01 04	6	3,5	4,7	15	0,2	0,337	1000
27 01 06	6	3,5	4,7	18	0,2	0,404	1000
27 01 07	6	3,5	4,7	20	0,2	0,449	1000
27 01 08	10	4,5	5,8	12	0,2	0,333	1000
27 01 10	10	4,5	5,8	15	0,2	0,413	1000
27 01 12	10	4,5	5,8	18	0,2	0,493	1000
27 01 14	16	5,8	7,5	12	0,2	0,425	1000
27 01 16	16	5,8	7,5	15	0,2	0,525	1000
27 01 18	16	5,8	7,5	18	0,2	0,625	1000
27 01 19	16	5,8	7,5	24	0,2	0,865	1000
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	250
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



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
 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

Expendable items(WG 28 - 29)

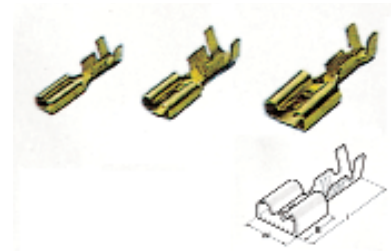
- Connectors
- Ring terminals
- Terminals
- DIN-terminals



Socket sleeve (female)

brass bright, noninsulated, 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	0,5 - 1,25	4,8 x 0,5	5,6	15	6,4	1000	200
28 00 16	0,5 - 1,25	2,8 x 0,8	3,75	16	6,4	1000	200
28 00 20	0,5 - 1,25	2,8 x 0,5	3,75	16	6,4	1000	200



Socket sleeve (female)

tinned, noninsulated, 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	0,5 - 1,25	4,8 x 0,5	5,6	15	6,4	1000	200
28 00 46	0,5 - 1,25	2,8 x 0,8	3,75	16	6,4	1000	200
28 00 50	0,5 - 1,25	2,8 x 0,5	3,75	16	6,4	1000	200

Socket sleeve (female)

flag type, brass bright, noninsulated

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)

flag type, tinned, noninsulated

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 big back, brass bright, noninsulated

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 big back, tinned, noninsulated

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
 FL flange hole
 IF identification figure
 le. of pl. length of plug in mm

M bolt M in mm
 plug flat plug
 PU packing unit in pieces
 RM round multywiring

RS round singlewiring
 SM sectorshape multywiring
 socket flat socket
 SS sectorshape singlewiring

weight in gr.
 Ø bo Ø bolt in mm
 Ø rope Ø rope mm

Socket (male)

brass bright, noninsulated

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, noninsulated

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, noninsulated

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	0,5 - 1	4,3	17	21	8	1200	200
28 01 28	0,5 - 1	5,08	17	22	9,5	1200	200
28 01 32	1 - 2,5	3,2	17	21	8	1400	200
28 01 36	1 - 2,5	4,3	17	21	8	1400	200
28 01 40	1 - 2,5	5,08	17	22	9,5	1400	200



Ring terminals

tinned, noninsulated

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	0,5 - 1	4,3	17	21	8	1200	200
28 01 58	0,5 - 1	5,08	17	22	9,5	1200	200
28 01 62	1 - 2,5	3,2	17	21	8	1400	200
28 01 66	1 - 2,5	4,3	17	21	8	1400	200
28 01 70	1 - 2,5	5,08	17	22	9,5	1400	200



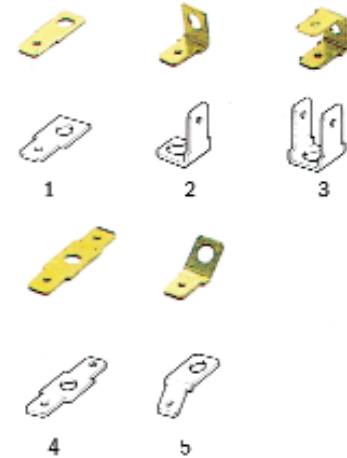
haupa[®]

...Technology that connects

Blade terminals (male)

brass bright, noninsulated

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)

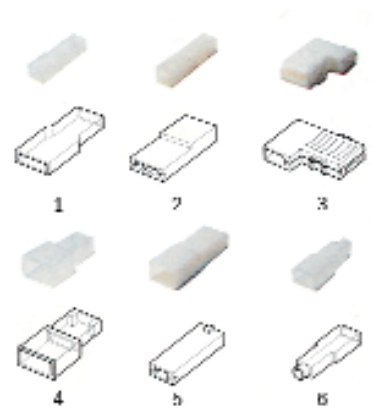
brass tinned, noninsulated

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

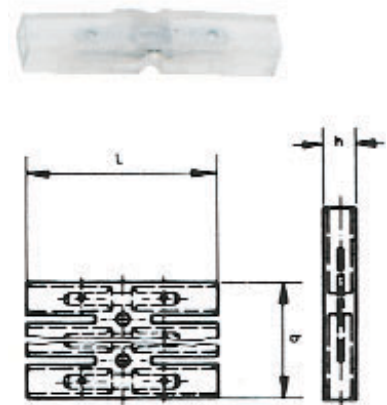
Art. No.	form	material	socket	weight	PU
28 02 00	1	PVC	6,3	150	100
28 02 02	2	Nylon	6,3	150	100
28 02 04	6	PVC	4,8	150	100
28 02 06	2	Nylon	4,8	150	100
28 02 08	6	PVC	2,8	150	100
28 02 10	5	Nylon	2,8	150	100
28 02 12	4	PVC	6,3	150	100
28 02 14	3	Nylon	6,3	150	100



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	300
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



CS cross section in mm²
 FL flange hole
 IF identification figure
 le. of pl. length of plug in mm

M bolt M in mm
 plug flat plug
 PU packing unit in pieces
 RM round multiwiring

RS round singlewiring
 SM sectorshape multiwiring
 socket flat socket
 SS sectorshape singlewiring

weight in gr.
 Ø bo Ø bolt in mm
 Ø rope Ø rope mm

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	-	51	13	20	-	9	7	B	650	50



Form A



Form B

Instructions

1. The choice of the connector

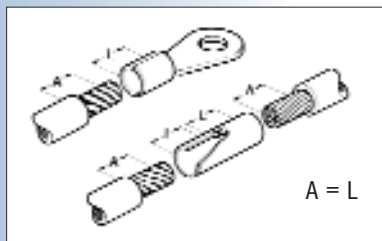
In order to obtain a connection that can be guaranteed for a long time it is necessary to select the connectors suitable to the application field and strictly conform to the section of the cable to be crimped.

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	

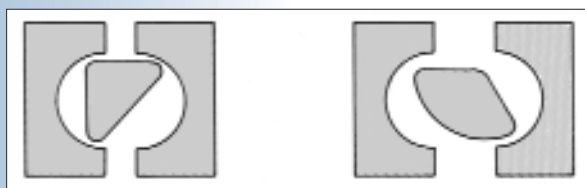


3. Cleaning

The conductor ends have to be solidly cleaned from oxidation and every rest of dirt before mounting.

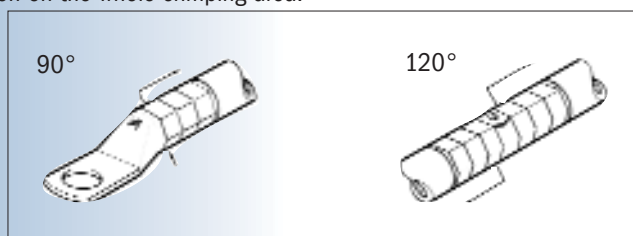
4. Assembling

- 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.



Noninsulated crimping terminals

copper tinned, 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	0,25 - 1,5	3	3,20	8	17,25	1,95	5,20	50	100
29 06 21	0,25 - 1,5	3,5	3,70	8	17,25	1,95	5,20	50	100
29 06 22	0,25 - 1,5	4	4,20	8	16,65	1,95	5,20	50	100
29 06 24	0,25 - 1,5	5	5,20	8	17,25	1,95	5,20	100	100
29 06 23	0,25 - 1,5	6	6,20	10	18,50	1,95	5,20	50	100
29 06 25	0,25 - 1,5	8	8,20	14	25	1,95	5,20	100	100
29 06 17	0,25 - 1,5	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	1,5 - 2,5	3	3,20	8	17,25	2,45	5,20	100	100
29 06 27	1,5 - 2,5	3,5	3,70	8	17,25	2,45	5,20	100	100
29 06 28	1,5 - 2,5	4	4,20	8	17,25	2,45	5,20	50	100
29 06 30	1,5 - 2,5	5	5,20	10	20	2,45	5,20	50	100
29 06 32	1,5 - 2,5	6	6,20	11	22	2,45	5,20	100	100
29 06 34	1,5 - 2,5	8	8,20	15	26,80	2,45	5,20	100	100
29 06 35	1,5 - 2,5	10	10,50	15	26,80	2,45	5,20	200	100
29 06 37	2,5 - 6	3,5	3,70	8	18,70	3,50	6,50	150	100
29 06 36	2,5 - 6	4	4,20	8	18,70	3,50	6,50	150	100
29 06 38	2,5 - 6	5	5,20	10	21,80	3,50	6,50	200	100
29 06 40	2,5 - 6	6	6,20	11	23,00	3,50	6,50	200	100
29 06 42	2,5 - 6	8	8,20	15	29,30	3,50	6,50	250	100
29 06 44	2,5 - 6	10	10,50	19	32,20	3,50	6,50	350	100



Noninsulated crimping terminals

copper tinned, 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	0,25 - 1,5	3	3,20	5,60	14,60	1,95	5,20	50	100
29 07 31	0,25 - 1,5	3,5	3,70	6,50	14,90	1,95	5,20	50	100
29 07 32	0,25 - 1,5	4	4,20	6,40	15	1,95	5,20	100	100
29 07 34	0,25 - 1,5	5	5,20	8,00	16,25	1,95	5,20	100	100
29 07 35	0,25 - 1,5	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	1,5 - 2,5	3	3,20	5,60	17,25	2,45	5,20	100	100
29 07 39	1,5 - 2,5	3,5	3,70	6,60	14,30	2,45	5,20	100	100
29 07 38	1,5 - 2,5	4	4,20	6,60	14,30	2,45	5,20	100	100
29 07 40	1,5 - 2,5	5	5,20	9,10	19,25	2,45	5,20	100	100
29 07 42	1,5 - 2,5	6	6,20	10	21	2,45	5,20	50	100
29 07 43	2,5 - 6	3,5	3,70	8	19,65	3,50	6,50	100	100
29 07 44	2,5 - 6	4	4,20	8	18,60	3,50	6,50	100	100
29 07 46	2,5 - 6	5	5,20	9	21,10	3,50	6,50	150	100
29 07 48	2,5 - 6	6	6,20	11	22,30	3,50	6,50	150	100
29 07 50	2,5 - 6	8	8,20	15,20	27,30	3,50	6,50	150	100
29 07 51	2,5 - 6	10	10,50	19	30,20	3,50	6,50	300	100
29 07 52	6 - 10	5						300	100
29 07 54	6 - 10	6	6,7	10,3	20,8	4,7	8,50	250	100
29 07 56	10 - 16	6						250	100



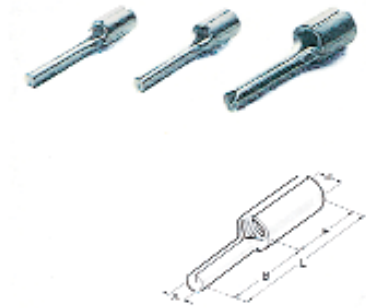
haupa®

...Technology that connects

Noninsulated crimping terminals

copper tinned, pin type DIN 46230

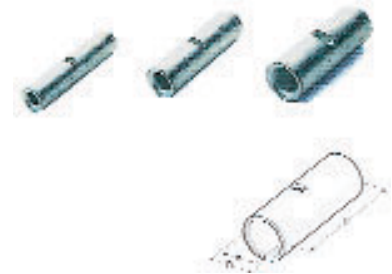
Art. No.	CS	A	B	E	L	d	weight	PU
29 07 70	0,25 - 1,5	1,8	12	5	17,3	1,85	20	100
29 07 71	0,25 - 1,5	1,8	9	5	17,3	1,85	30	100
29 07 73	1,5 - 2,5	1,8	9	5	17,3	2,40	50	100
29 07 75	1,5 - 2,5	1,8	9	5	17,3	2,40	100	100
29 07 77	2,5 - 6	2,6	12,5	6	20,5	3,60	150	100
29 07 76	10	4,0	14	8,5	24,5	4,50	200	100
29 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



Noninsulated crimping terminals

Butt connectors

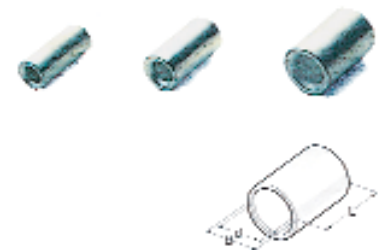
Art. No.	CS	B	L	d	weight	PU
29 01 35	0,25 - 1,5	3,3	15,0	1,7	100	100
29 01 36	1,5 - 2,5	4,1	15,0	2,3	150	100
29 01 37	2,5 - 6	5,4	15,0	3,4	200	100



Noninsulated crimping terminals

Parallel connectors

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	5,4	8,4	3,4	50	100



CS cross section in mm²
 FL flange hole
 IF identification figure
 le. of pl. length of plug in mm

M bolt M in mm
 plug flat plug
 PU packing unit in pieces
 RM round multywiring

RS round singlewiring
 SM sectorshape multywiring
 socket flat socket
 SS sectorshape singlewiring

weight in gr.
 Ø bo Ø bolt in mm
 Ø rope Ø rope mm

Crimping terminals DIN 46234

noninsulated, copper tinned, 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	6	3,60	6,50	11	16	6	200	100
29 06 50	6	8	3,60	8,40	14	19	6	250	100
29 06 52	6	10	3,60	10,50	18	21	6	300	100
29 06 54	6	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	10	6	4,50	6,40	11	17	8	250	100
29 06 60	10	8	4,50	8,40	14	20	8	300	100
29 06 62	10	10	4,50	10,50	18	21	8	350	100
29 06 63	10	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	16	6	5,80	6,40	11	20	10	400	100
29 06 68	16	8	5,80	8,40	14	22	10	450	100
29 06 70	16	10	5,80	10,50	18	24	10	500	100
29 06 72	16	12	5,80	13,00	22	26	10	650	100
29 06 74	16	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	25	8	7,50	8,40	16	25	11	400	50
29 06 80	25	10	7,50	10,50	18	26	11	400	50
29 06 82	25	12	7,50	13,00	22	31	11	500	50
29 06 83	25	14	7,50	15,00	30	37	11	500	50
29 06 84	25	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	35	10	9,00	10,50	18	27	12	550	50
29 06 90	35	12	9,00	13,00	22	31	12	600	50
29 06 91	35	14	9,00	15,00	28	36	12	700	50
29 06 92	35	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	50	10	11,00	10,50	18	34	16	900	50
29 06 98	50	12	11,00	13,00	22	36	16	950	50
29 06 99	50	14	11,00	15,00	28	40	16	1150	50
29 07 00	50	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	70	10	13,00	10,50	22	38	18	1350	50
29 07 04	70	12	13,00	13,00	22	38	18	1300	50
29 07 06	70	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	95	10	15,00	10,50	24	42	20	2050	50
29 07 10	95	12	15,00	13,00	24	42	20	2000	50
29 07 11	95	14	15,00	15,00	28	44	20	2000	50
29 07 12	95	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	120	12	16,50	13,00	24	44	22	1400	25
29 07 15	120	14	16,50	15,00	28	44	22	1400	25
29 07 16	120	16	16,50	17,00	28	48	22	1500	25
29 07 17	120	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	150	12	19,00	13,00	30	50	24	2000	25
29 07 22	150	14	19,00	15,00	30	50	24	2000	25
29 07 18	150	16	19,00	17,00	30	50	24	1900	25
29 07 23	150	20	19,00	21,00	36	63	24	2050	25
29 07 20	185	16	21,00	17,00	36	50	25	2050	25



Noninsulated tube terminals

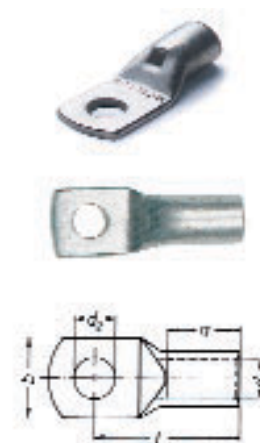
made from tube, copper tinned, with and without inspection hole

Example for Art. No. with inspection hole: 29 09 00/S

CS¹: cross section multywiring

CS²: cross section multy- and finewiring

Art. No.	CS ¹ (mm ²)	CS ² (mm ²)	M	d1	d2	b	l	a	weight	PU
29 09 00	0,75	0,75	3	1,4	3,2	6	12,5	6,0	68	100
29 09 02	0,75	0,75	4	1,4	4,3	8,5	14	6,0	76	100
29 09 04	1,5	1,5	3	1,9	3,2	6,5	13	6,0	119	100
29 09 06	1,5	1,5	4	1,9	4,3	8,5	14	6,0	129	100
29 09 08	1,5	1,5	5	1,9	5,3	10	14,5	6,0	144	100
29 09 10	1,5	1,5	6	1,9	6,4	11	16	6,0	146	100
29 09 12	2,5	2,5	3	2,4	3,2	7,0	12	6,0	128	100
29 09 14	2,5	2,5	4	2,4	4,3	8,5	15	6,5	162	100
29 09 16	2,5	2,5	5	2,4	5,3	10	16	6,5	165	100
29 09 18	2,5	2,5	6	2,4	6,5	11	17,5	6,5	177	100
29 09 20	2,5	2,5	8	2,4	8,4	14	21	6,5	218	100
29 09 22	4	4	4	3	4,3	8,5	17	8	210	100
29 09 24	4	4	5	3	5,3	10	17,5	8	225	100
29 09 26	4	4	6	3	6,5	11	19,5	8	234	100
29 09 28	4	4	8	3	8,5	14	22	8	265	100
29 09 30	6	6	4	3,7	4,3	8,5	18	8	250	100
29 09 32	6	6	5	3,7	5,3	10	18,5	8	270	100
29 09 34	6	6	6	3,7	6,5	11	20	8	280	100
29 09 36	6	6	8	3,7	8,5	14	22	8	322	100
29 09 38	10	10	5	4,3	5,3	10	21	10	440	100
29 09 40	10	10	6	4,3	6,5	11	22	10	440	100
29 09 42	10	10	8	4,3	8,4	15	24	10	490	100
29 09 44	10	10	10	4,3	10,5	18	27	10	560	100
29 09 46	10	10	12	4,3	13	20	28	10	560	100
29 09 48	16	10	5	5,4	5,3	11	23	11	570	100
29 09 50	16	10	6	5,4	6,5	11	23	11	570	100
29 09 52	16	10	8	5,4	8,4	15	25	11	640	100
29 09 54	16	10	10	5,4	10,5	18	27	11	710	100
29 09 56	16	12	10	5,4	13	20	29	11	710	100
29 09 58	25	16	6	6,9	6,5	14	28	13	880	100
29 09 60	25	16	8	6,9	8,4	15	29	13	940	100
29 09 62	25	16	10	6,9	10,5	18	31	13	1040	100
29 09 64	25	16	12	6,9	13	20	32	13	1040	100
29 09 66	35	25	6	8,3	6,5	16,5	32	16	1550	100
29 09 68	35	25	8	8,3	8,4	16,5	32	16	1540	100
29 09 70	35	25	10	8,3	10,5	18	34	16	1580	100
29 09 72	35	25	12	8,3	13	20	36	16	1620	100
29 09 74	35	25	16	8,3	15	22	39	16	1730	100
29 09 76	50	35	6	9,6	6,5	19	35	18	2280	100
29 09 78	50	35	8	9,6	8,4	19	36	18	2300	100
29 09 80	50	35	10	9,6	10,5	20	38	18	2490	100
29 09 82	50	35	12	9,6	13	23	39	18	2540	100
29 09 84	50	35	16	9,6	15	25	44	18	2700	100
29 09 85	70	50	6	11,5	6,5	22	41	21	3500	100
29 09 86	70	50	8	11,5	8,4	22,5	42	21	3650	100
29 09 88	70	50	10	11,5	10,5	22,5	42	21	3500	100
29 09 90	70	50	12	11,5	13	23	42	21	3600	100
29 09 91	70	50	14	11,5	15	26	46	21	3700	100
29 09 92	70	50	16	11,5	17	28	48	21	3840	100
29 09 94	95	70	8	13,5	8,4	25	47	24	4940	50
29 09 96	95	70	10	13,5	10,5	25	48	24	4840	50
29 09 98	95	70	12	13,5	13	26	48	24	4840	50
29 09 99	95	70	14	13,5	15	26	50	24	5000	50
29 10 00	95	70	16	13,5	17	28	52	24	5050	50
29 10 02	95	70	20	13,5	21	30	55	24	5700	50



CS cross section in mm²
 FL flange hole
 IF identification figure
 le. of pl. length of plug in mm

M bolt M in mm
 plug flat plug
 PU packing unit in pieces
 RM round multywiring

RS round singlewiring
 SM sectorshape multywiring
 socket flat socket
 SS sectorshape singlewiring

weight in gr.
 Ø bo Ø bolt in mm
 Ø rope Ø rope mm

Noninsulated tube terminals

made from tube, copper tinned, with and without inspection hole

Example for Art. No. with inspection hole: 29 09 04/S

CS¹: cross section multywiring

CS²: cross section multy- and finewiring

Art. No.	QS ¹ (mm ²)	QS ² (mm ²)	M	d1	d2	b	l	a	weight	PU
29 00 04	120	95	8	15,5	8,4	29	53	28	7300	50
29 00 06	120	95	10	15,5	10,5	29	53	28	7150	50
29 00 08	120	95	12	15,5	13	29	53	28	6980	50
29 00 09	120	95	14	15,5	15	29	54	28	7100	50
29 00 10	120	95	16	15,5	17	29	55	28	7070	50
29 00 12	120	95	20	15,5	21	35	60	28	7640	50
29 00 14	150	120	10	16,8	10,5	31	55	29	7780	50
29 00 16	150	120	12	16,8	13	31	55	29	7720	50
29 00 17	150	120	14	16,8	15	31	57	29	7740	50
29 00 18	150	120	16	16,8	17	31	57	29	7720	50
29 00 20	150	120	20	16,8	21	35	60	29	8340	50
29 00 22	185	150	12	19	13	35	64	30	11600	25
29 00 23	185	150	14	19	15	35	64	30	11300	25
29 00 24	185	150	16	19	17	35	64	30	11200	25
29 00 26	185	150	20	19	17	35	66	30	11200	25
29 00 28	240	185	12	21	13	38	72	38	14630	25
29 00 29	240	185	14	21	15	38	72	38	14250	25
29 00 30	240	185	16	21	17	38	72	38	14100	25
29 00 32	240	185	20	21	21	38	74	38	13750	25
29 00 34	300	240	12	24	13	43	82	45	22950	25
29 00 36	300	240	14	24	15	43	82	45	22950	25
29 00 38	300	240	16	24	17	43	82	45	22900	25
29 00 40	300	240	20	24	21	43	82	45	21900	25
29 00 46	400	300	16	27,5	17	49	95	50	28700	
29 00 48	400	300	20	27,5	21	49	94	50	27800	
29 00 41	500	400	16	31	17	55	122	70	47860	
29 00 43	500	400	20	31	21	55	123	70	47800	
29 00 45	625	500	16	34	17	60	122	70	51350	
29 00 47	625	500	20	34	21	60	123	70	50600	



Terminals assortement, standard

in metal box, with plier

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 plier, con. range 6 - 50 mm², hexagon pressing, standard

1 metal box 400 x 250 x 50 mm

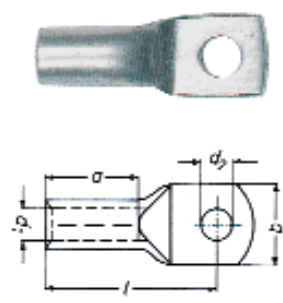
Art. No.	weight	PU
29 02 46	7000	1



Tube terminals for finewiring conductors

without inspection hole
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	10	8	5	8,4	15	26	11	440	100
29 02 54	10	10	5	10,5	18	29	11	460	100
29 02 56	10	12	5	13	20	30	11	460	100
29 02 58	16	6	6	6,5	13	27	13	690	100
29 02 60	16	8	6	8,4	15	28	13	770	100
29 02 62	16	10	6	10,5	18	32	13	820	100
29 02 64	16	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	25	8	7,7	8,4	16	32	16	1150	100
29 02 70	25	10	7,7	10,5	18	34	16	1230	100
29 02 72	25	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	35	10	9	13	23	39	18	1800	100
29 02 80	35	12	9	17	28	45	18	1800	100
29 02 82	50	8	11	8,4	22	42	21	2500	100
29 02 84	50	10	11	10,5	22	42	21	2450	100
29 02 86	50	12	11	13	23	42	21	2600	100
29 02 88	50	16	11	17	28	48	21	2700	100
29 02 90	70	8	13	8,4	25	48	24	4100	100
29 02 92	70	10	13,5	10,5	25	48	24	4000	100
29 02 94	70	12	13,5	13	25	48	24	3850	100
29 02 96	70	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	95	12	15,5	17	29	55	28	4100	50
29 03 04	95	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	120	12	16,8	13	31	55	29	7450	50
29 03 10	120	216	16,8	17	31	56	29	7100	50
29 03 12	120	20	16,8	21	34	60	29	8100	50
29 03 16	150	12	19	13	36	65	30	10550	25
29 03 18	150	16	19	17	35	65	30	10200	25
29 03 20	150	20	19	21	35	65	30	10500	25



CScross section in mm²
FLflange hole
IFidentification figure
le. of pl.length of plug in mm

Mbolt M in mm
plugflat plug
PUpacking unit in pieces
RMround multywiring

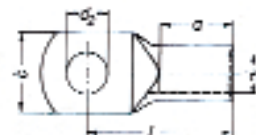
RSround singlewiring
SMsectorshape multywiring
socketflat socket
SSsectorshape singlewiring

weightin gr.
Ø boØ bolt in mm
Ø ropeØ rope mm

Noninsulated crimping terminals DIN 46235

copper-tinned,
* not DIN-normed

Art. No.	CS (mm ²)	M	d1	d2	b	l	a	IF	crimps quantity		weight	PU
									small	wide		
29 04 04	6	6	3,8	6,4	8,5	24	10	5	1	-	330	100
29 04 06	6	8	3,8	8,4	13	24	10	5	1	-	350	100
29 04 08*	10	5	4,5	5,3	10	27	10	6	1	-	460	100
29 04 10*	10	6	4,5	6,4	10	27	10	6	1	-	440	100
29 04 12	10	8	4,5	8,4	13	27	10	6	1	-	470	100
29 04 14	10	10	4,5	10,5	16	27	10	6	1	-	580	100
29 04 16	16	6	5,5	6,4	13	36	20	8	2	-	1250	100
29 04 18	16	8	5,5	8,4	14	36	20	8	2	-	1250	100
29 04 20	16	10	5,5	10,5	16	36	20	8	2	-	1350	100
29 04 22*	16	12	5,5	13	19	36	20	8	2	-	1350	100
29 04 24	25	6	7	6,4	15	38	20	10	2	-	1660	100
29 04 26	25	8	7	8,4	16	38	20	10	2	-	1620	100
29 04 28	25	10	7	10,5	17	38	20	10	2	-	1620	100
29 04 30	25	12	7	13	19	38	20	10	2	-	1590	100
29 04 32*	35	6	8,2	6,4	18	42	20	12	2	-	2980	100
29 04 34	35	8	8,2	8,4	18	42	20	12	2	-	2880	100
29 04 36	35	10	8,2	10,5	18	42	20	12	2	-	2860	100
29 04 38	35	12	8,2	13	20	42	20	12	2	-	2800	100
29 04 40	50	8	10	8,4	20	52	28	14	3	-	4800	100
29 04 42	50	10	10	10,5	22	52	28	14	3	-	4600	100
29 04 44	50	12	10	13	24	52	28	14	3	-	4700	100
29 04 46	50	16	10	17	27	52	28	14	3	-	4900	100
29 04 48	70	8	11,5	8,4	24	55	28	16	3	-	6500	50
29 04 50	70	10	11,5	10,5	24	55	28	16	3	-	6300	50
29 04 52	70	12	11,5	13	24	55	28	16	3	-	6100	50
29 04 54	70	16	11,5	17	29	55	28	16	3	-	6300	50
29 04 56	95	10	13,5	10,5	28	65	35	18	4	2	9400	50
29 04 58	95	12	13,5	13	28	65	35	18	4	2	9000	50
29 04 60	95	16	13,5	17	31	65	35	18	4	2	9200	50
29 04 62	120	10	15,5	10,5	31	70	35	20	4	2	11540	50
29 04 64	120	12	15,5	13	31	70	35	20	4	2	11300	50
29 04 66	120	16	15,5	17	31	70	35	20	4	2	11000	50
29 04 68	120	20	15,5	21	36	70	35	20	4	2	11950	50
29 04 70	150	10	17	10,5	34	78	35	22	4	2	17500	25
29 04 72	150	12	17	13	34	78	35	22	4	2	17200	25
29 04 74	150	16	17	17	34	78	35	22	4	2	16500	25
29 04 76	150	20	17	21	38	78	35	22	4	2	16600	25
29 04 78	185	10	19	10,5	38	82	40	25	5	2	20300	25
29 04 80	185	12	19	13	38	82	40	25	5	2	18600	25
29 04 82	185	16	19	17	38	82	40	25	5	2	18700	25
29 04 84	185	20	19	21	38	82	40	25	5	2	18900	25
29 04 86	240	12	21,5	13	43	92	40	28	2	2	28300	10
29 04 88	240	16	21,5	17	43	92	40	28	2	2	27800	10
29 04 90	240	20	21,5	21	43	92	40	28	2	2	27800	10
29 04 92	300	16	24,5	17	46	100	50	32	2	2	37300	
29 04 94	300	20	24,5	21	46	100	50	32	2	2	36500	
29 04 96	400	16	27,5	17	53	115	70	38	3	2	78000	
29 04 98	400	20	27,5	21	53	115	70	38	3	2	76000	
29 05 16	500	20	31	21	59	125	70	42	3	2	86500	
29 05 18	625	20	34,5	21	62	135	80	44	3	2	90600	
29 05 20	800	20	40	21	74	165	100	52	3	2	165000	
29 05 22	1000	20	44	21	83	165	100	58	3	2	201000	



Terminals assortement, DIN

in metal box, with plier, Containing:

- 25 terminals 6,0 mm², Bolt M6, Art. No. 29 04 04
- 25 terminals 6,0 mm², Bolt M8, Art. No. 29 04 06
- 25 terminals 10,0 mm², Bolt M6, Art. No. 29 04 10
- 25 terminals 10,0 mm², Bolt M8, Art. No. 29 04 12
- 25 terminals 16,0 mm², Bolt M8, Art. No. 29 04 18
- 25 terminals 16,0 mm², Bolt M10, Art. No. 29 04 20
- 15 terminals 25,0 mm², Bolt M8, Art. No. 29 04 26
- 15 terminals 25,0 mm², Bolt M10, Art. No. 29 04 28
- 15 terminals 35,0 mm², Bolt M8, Art. No. 29 04 34
- 15 terminals 35,0 mm², Bolt M10, Art. No. 29 04 36
- 10 terminals 50,0 mm², Bolt M10, Art. No. 29 04 42
- 10 terminals 50,0 mm², Bolt M12, Art. No. 29 04 44
- 1 crimping plier, con. range 6 - 50 mm², hexagon pressing, DIN
- 1 metal box 400 x 250 x 50 mm



Art. No.	weight	PU
26 20 41	7250	1

haupa®

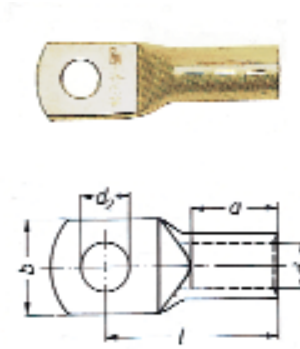
...Technology that connects

Crimp cable lugs DIN 46235

Electrolytic copper tube, bright corroded

* not DIN-normed

Art. No.	CS (mm ²)	M	d1	d2	b	l	a	IF	crimps quantity		weight	PU
									small	wide		
29 00 01	6	5	3,8	5,3	8,5	24	10	5	1	-	310	100
29 00 03	6	6	3,8	6,4	8,5	24	10	5	1	-	330	100
29 00 05	6	8	3,8	8,4	13	24	10	5	1	-	350	100
29 00 07	10	5	4,5	5,3	10	27	10	6	1	-	460	100
29 00 11	10	6	4,5	6,4	10	27	10	6	1	-	440	100
29 00 13*	10	8	4,5	8,4	13	27	10	6	1	-	470	100
29 00 15*	10	10	4,5	10,5	16	27	10	6	1	-	580	100
29 00 19	16	6	5,5	6,4	13	36	20	8	2	-	1250	100
29 00 21	16	8	5,5	8,4	14	36	20	8	2	-	1250	100
29 00 25	16	10	5,5	10,5	16	36	20	8	2	-	1350	100
29 00 27*	16	12	5,5	13	19	36	20	8	2	-	1350	100
29 00 31	25	6	7	6,4	15	38	20	10	2	-	1660	100
29 00 33	25	8	7	8,4	16	38	20	10	2	-	1620	100
29 00 35	25	10	7	10,5	17	38	20	10	2	-	1620	100
29 00 37	25	12	7	13	19	38	20	10	2	-	1590	100
29 00 39*	35	6	8,2	6,4	18	42	20	12	2	-	2980	100
29 00 42	35	8	8,2	8,4	18	42	20	12	2	-	2880	100
29 00 44	35	10	8,2	10,5	18	42	20	12	2	-	2860	100
29 00 49	35	12	8,2	13	20	42	20	12	2	-	2800	100
29 00 50	50	8	10	8,4	20	52	28	14	3	-	4800	100
29 00 51	50	10	10	10,5	22	52	28	14	3	-	4600	100
29 00 52	50	12	10	13	24	52	28	14	3	-	4700	100
29 00 53	50	16	10	17	27	52	28	14	3	-	4900	100
29 00 54	70	8	11,5	8,4	24	55	28	16	3	-	6500	50
29 00 55	70	10	11,5	10,5	24	55	28	16	3	-	6300	50
29 00 56	70	12	11,5	13	24	55	28	16	3	-	6100	50
29 00 57	70	16	11,5	17	29	55	28	16	3	-	6300	50
29 00 58	95	10	13,5	10,5	28	65	35	18	4	2	9400	50
29 00 59	95	12	13,5	13	28	65	35	18	4	2	9000	50
29 00 60	95	16	13,5	17	31	65	35	18	4	2	9200	50
29 00 61	120	10	15,5	10,5	31	70	35	20	4	2	11540	50
29 00 63	120	12	15,5	13	31	70	35	20	4	2	11300	50
29 00 64	120	16	15,5	17	31	70	35	20	4	2	11000	50
29 00 65	120	20	15,5	21	36	70	35	20	4	2	11950	50
29 00 66	150	10	17	10,5	34	78	35	22	4	2	17500	25
29 00 67	150	12	17	13	34	78	35	22	4	2	17200	25
29 00 68	150	16	17	17	34	78	35	22	4	2	16500	25
29 00 69	150	20	17	21	38	78	35	22	4	2	16600	25
29 00 70	185	10	19	10,5	38	82	40	25	5	2	20300	25
29 00 71	185	12	19	13	38	82	40	25	5	2	18600	25
29 00 72	185	16	19	17	38	82	40	25	5	2	18700	25
29 00 73	185	20	19	21	38	82	40	25	5	2	18900	25
29 00 74	240	12	21,5	13	43	92	40	28	2	2	28300	25
29 00 75	240	16	21,5	17	43	92	40	28	2	2	27800	25
29 00 76	240	20	21,5	21	43	92	40	28	2	2	27800	25
29 00 77	300	16	24,5	17	46	100	50	32	2	2	37300	
29 00 78	300	20	24,5	21	46	100	50	32	2	2	36500	
29 00 79	400	16	27,5	17	53	115	70	38	3	3	78000	
29 00 80	400	20	27,5	21	53	115	70	38	3	3	76000	
29 00 81	500	20	31	21	59	125	70	42	3	3	86500	
29 00 82	625	20	34,5	21	62	135	80	44	3	3	90600	
29 00 83	800	20	40	21	74	165	100	52	3	3	165000	
29 00 84	1000	20	44	21	83	165	100	58	3	3	201000	



CS cross section in mm²
 FL flange hole
 IF identification figure
 le. of pl. length of plug in mm

M bolt M in mm
 plug flat plug
 PU packing unit in pieces
 RM rund multywiring

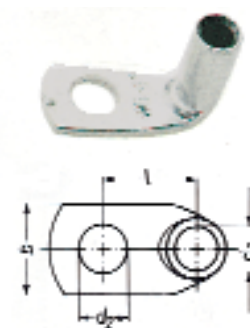
RS round singlewiring
 SM sectorshape multywiring
 socket flat socket
 SS sectorshape singlewiring

weight in gr.
 Ø bo Ø bolt in mm
 Ø rope Ø rope mm

Crimping tubular angle terminals

Electrolytic copper tube acc. to DIN 40500, tinned

Art. No.	CS (mm ²)	M	d1	d2	b	l	a	weight	PU
29 01 40	6	5	3,7	5,5	10	9	5,5	560	100
29 01 42	6	6	3,7	6,5	12	10	5,5	600	100
29 01 44	6	8	3,7	8,5	15	13	5,5	640	100
29 01 46	6	10	3,7	10,5	18	15	5,5	620	100
29 01 50	10	6	4,3	6,5	11	15	10	570	100
29 01 52	10	8	4,3	8,4	15	16	10	630	100
29 01 54	10	10	4,3	10,5	18	19	10	680	100
29 01 56	10	12	4,3	13	20	22	10	680	100
29 01 60	16	6	5,4	6,5	11	17	11	1060	100
29 01 62	16	8	5,4	8,4	15	18	11	1080	100
29 01 64	16	10	5,4	10,5	18	20	11	1140	100
29 01 66	16	12	5,4	13	20	24	11	1130	100
29 01 68	25	6	6,9	6,5	14	15	13	1400	100
29 01 70	25	8	6,9	8,4	15	17	13	1460	100
29 01 72	25	10	6,9	10,5	18	20	13	1510	100
29 01 74	25	12	6,9	13	20	24	13	1500	100
29 01 76	35	6	8,3	6,5	16	20	16	2050	100
29 01 78	35	8	8,3	8,4	16	20	16	2100	100
29 01 80	35	10	8,3	10,5	18	23	16	2250	100
29 01 82	35	12	8,3	13	20	23	16	2310	100
29 01 88	50	8	9,6	8,4	19	21	18	3250	100
29 01 90	50	10	9,6	10,5	20	22	18	3300	100
29 01 92	50	12	9,6	13	23	25	18	3350	100
29 01 96	70	8	11,5	8,4	22	22	21	5040	100
29 01 98	70	10	11,5	10,5	22	22	21	5090	100
29 02 00	70	12	11,5	13	23	26	21	5080	100
29 02 04	95	8	13,5	8,4	25	24	24	5870	50
29 02 06	95	10	13,5	10,5	25	24	24	6060	50
29 02 08	95	12	13,5	13	25	27	24	6070	50
29 02 14	120	10	15,5	10,5	29	27	28	7300	50
29 02 16	120	12	15,5	13	29	30	28	7300	50
29 02 18	120	16	15,5	17	29	32	28	7300	50
29 02 22	150	10	16,8	10,5	31	34	29	8500	50
29 02 24	150	12	16,8	13	31	34	29	8600	50
29 02 26	150	16	16,8	17	31	34	29	8700	50
29 02 30	185	12	19	13	35	35	30	11900	50
29 02 32	185	16	19	17	35	35	30	11600	50
29 02 34	185	20	19	21	35	35	30	11400	50
29 02 36	240	12	21	13	38	40	38	15800	50
29 02 38	240	16	21	17	38	40	38	15500	50
29 02 40	240	20	21	21	38	40	38	14900	50



Crimping tube terminals, nylon insulated

Electrolytic copper tube, tinned

Art. No.	CS (mm ²)	M	F	A	B	L	H	C	D	E	weight	PU
29 08 00	10	5	5,30	4,80	10	37	9,5	5	6,3	8,2	440	100
29 08 02	10	6	6,30	4,80	10	43	11,2	6,3	8,3	8,2	420	100
29 08 04	10	8	6,30	4,80	13,8	43	11,2	6,2	8,5	8,2	470	100
29 08 06	10	10	10,50	4,80	17,5	48	11,2	10	11	8,2	490	100
29 08 10	16	5	5,25	6	11,5	44	11,6	6,3	9	10	700	100
29 08 12	16	6	6,30	6	11,5	44	11,6	6,3	9	10	680	100
29 08 14	16	8	8,40	6	15	44	12	6,3	9	10	740	100
29 08 16	16	10	10,50	6	18,2	50	12,5	7	10	10	810	100
29 08 18	16	12	13	6	18,2	54	12,5	9,8	13	10	790	100
29 08 20	25	6	6,30	7	14	50	13,5	7	10,5	11,5	1160	100
29 08 22	25	8	8,40	7	14	50	13,5	8	10	11,5	1250	100
29 08 24	25	10	10,50	7	17	51	14	9	11,5	11,5	1350	100
29 08 26	25	12	13	7	18,5	51	14	9	11,5	11,5	1340	100
29 08 30	35	6	6,30	9	17	55	13	6	9,5	14	1650	100
29 08 32	35	8	8,50	9	17	59	15	8,6	11	14	1790	100
29 08 34	35	10	10,50	9	17	59	14	10	11	14	1950	100
29 08 36	35	12	13	9	20	64	14	11,3	14,2	14	1950	100
29 08 40	50	6	6,30	10	19	60	17	8,5	10,5	15,5	2660	100
29 08 42	50	8	8,4	10	19	65	17	9,5	13,5	15,5	2620	100
29 08 44	50	10	10,50	10	19	65	17	9,5	13,7	15,5	2670	100
29 08 46	50	12	12,50	10	21	70	17	12	15,3	15,5	2800	100
29 08 48	50	14	14,50	10	22	70	17	12	15,3	15,5	2900	100
29 08 50	70	8	8,40	12	22	70	20,5	11,3	14,2	22	3850	50
29 08 52	70	10	10,50	12	22	75	20,5	11,3	14,2	22	4000	50
29 08 54	70	12	12,50	12	22	75	20,5	11,3	14,2	22	4090	50
29 08 56	70	14	14,50	12	22	75	20,5	11,3	14,2	22	4200	50
29 08 58	70	16	16,50	12	22	75	20,5	11,3	14,2	22	4300	50
29 08 60	95	8	8,40	13,8	25	83	23	12,5	17,5	26	4400	25
29 08 62	95	10	10,50	13,8	25	83	23	12,5	17,5	26	4300	25
29 08 64	95	12	12,50	13,8	25	83	23	13	17	26	4450	25
29 08 66	95	14	14,50	13,8	25	84	23	13	17	26	4550	25
29 08 68	95	16	16,50	13,8	25	91	23	13	17	26	4600	25
29 08 70	120	8	8,40	15,5	28	97	24	14	22,5	27	8100	25
29 08 72	120	10	10,50	15,5	28	97	24	14	22,5	27	7950	25
29 08 74	120	12	12,50	15,5	28	97	24	14	22,5	27	7900	25
29 08 76	120	14	14,50	15,5	28	97	24	14	22,5	27	7500	25
29 08 78	120	16	16,50	15,5	28	97	24	14	22,5	27	8500	25
29 08 80	150	10	10,50	17	31	106	28	16	22	29	11400	25
29 08 82	150	12	12,50	17	31	106	28	16	22	29	11200	25
29 08 84	150	14	14,50	17	31	107	28	16	22	29	11000	25
29 08 86	150	16	16,50	17	31	107	28	16,5	22	29	10700	25
29 08 88	150	20	21	17	31	107	28	16,5	23	29	10900	25
29 08 90	185	14	14,50	19	36	116	30	17	24	32	12800	25
29 08 92	185	16	16,50	19	36	116	30	17	24	32	12600	25
29 08 94	185	20	21	19	36	116	30	17,5	24,5	32	13000	25
29 08 96	240	14	14,50	21,5	39	120	35	19	21,5	36	16200	25
29 08 98	240	16	14,50	21,5	39	120	35	19	21,5	36	16000	25
29 08 99	240	20	21	21,5	39	120	35	19	21,5	36	16500	25



Crimping tube tubular connectors/Butt space connectors

Electrolytic copper tube acc. to DIN 40500, tinned

Art. No.	CS (mm ²)	length	weight	PU
29 10 50	0,75	14	85	100
29 10 52	1,5	14	139	100
29 10 54	2,5	16	130	100
29 10 56	4	19	275	50
29 10 58	6	19	500	50
29 10 60	10	30	590	50
29 10 62	16	35	1020	50
29 10 64	25	40	1420	50
29 10 66	35	45	2250	25
29 10 68	50	50	3300	25
29 10 70	70	55	4900	25
29 10 72	95	60	6000	25
29 10 74	120	65	7000	25
29 10 76	150	70	8300	25
29 10 78	185	80	11200	25
29 10 80	240	90	14000	25
29 10 82	300	100	22200	25
29 10 84	400	100	30000	25



CScross section in mm²
 FLflange hole
 IFidentification figure
 le. of pl.length of plug in mm

Mbolt M in mm
 plugflat plug
 PUpacking unit in pieces
 RMrund multiwiring

RSround singlewiring
 SMsectorshape multiwiring
 socketflat socket
 SSsectorshape singlewiring

weightin gr.
 Ø boØ bolt in mm
 Ø ropeØ rope mm

Crimp type tubular connectors DIN 46341 part 1, form A/ Butt connectors

Electrolytic copper tube, tinned

Art. No.	CS (mm ²)	length	weight	PU
29 10 90	0,5 - 1	7	15	100
29 10 92	1,5 - 2,5	7	60	100
29 10 96	4 - 6	9	100	100
29 10 98	10	10	180	100
29 11 00	16	11	275	100
29 11 02	25	14	540	100
29 11 04	35	16	755	100
29 11 06	50	19	1255	100
29 11 08	70	19	1630	100
29 11 10	95	20	2490	50
29 11 12	120	22	3660	50
29 11 14	150	26	5230	50



Crimp type tubular connectors DIN 46341 part 1, form B/ Butt connectors

Electrolytic copper tube, tinned

Art. No.	CS (mm ²)	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 connector

Electrolytic copper tube acc. to DIN 40500, tinned

Art. No.	CS (mm ²)	d1	L	IF	weight	PU
29 15 21	6	6	30	5	280	100
29 15 23	10	4,5	30	6	400	100
29 15 25	16	5,5	50	8	1500	100
29 15 27	25	7	50	10	2200	100
29 15 29	35	8,3	50	12	3000	100
29 15 31	50	10	55	14	4300	50
29 15 33	70	11,5	55	16	5560	50
29 15 35	95	13,5	70	18	9060	50
29 15 37	120	15,5	70	20	10600	25
29 15 39	150	17	80	22	15040	25
29 15 41	185	19	85	25	17050	25
29 15 43	240	21,5	90	28	24700	-
29 15 45	300	24,1	100	32	31900	-
29 15 47	400	27,5	150	38	77250	-
29 15 49	500	31	160	42	92700	-
29 15 51	625	35	160	44	94800	-
29 15 53	800	40	200	52	155000	-
29 15 55	1000	44	200	58	196000	-



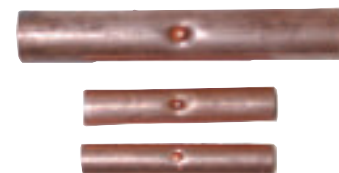
haupa[®]

...Technology that connects

Connectors DIN 46267 part 1/ Butt connectors

Electrolytic copper tube acc. to DIN 40500, tinned

Art. No.	CS (mm ²)	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	-



Connectors

Electrolytic copper tube acc. to DIN 40500, bright

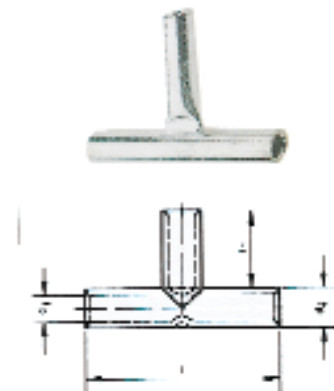
Art. No.	CS (mm ²)	Ø	d1	d2	L	Pr. mech.	Pr. hy.	IF	weight	PU
29 14 40	6	3	3,5	6,5	65	4/4		6	135	100
29 14 42	10	4,05	4,5	8,5	80	5/5		8	300	100
29 14 44	16	5,1	5,5	8,5	80	5/5		8	280	100
29 14 46	25	6,3	7	10	80	5/5		10	340	100
29 14 48	35	7,5	8,5	12,5	95	5/5		12	560	100
29 14 50	50	9	10	14,5	95	5/5		14	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

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



CS cross section in mm²
 FL flange hole
 IF identification figure
 le. of pl. length of plug in mm

M bolt M in mm
 plug flat plug
 PU packing unit in pieces
 RM round multiwiring

RS round singlewiring
 SM sectorshape multiwiring
 socket flat socket
 SS sectorshape singlewiring

weight in gr.
 Ø bo Ø bolt in mm
 Ø rope Ø rope mm

X-connectors

Electrolytic copper tube acc. to DIN 40500, tinned galvanised

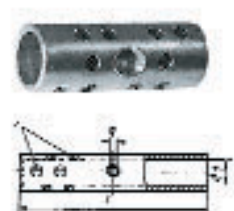
Art. No.	CS	d1	d2	L	L1	weight	PU
29 13 70	1,5	1,9	3,9	30	12	230	100
29 13 72	2,5	2,4	4,4	30	12	370	100
29 13 74	4	3	5	30	12	480	100
29 13 76	6	3,7	5,5	35	14	700	25
29 13 78	10	4,3	6,7	35	14	1000	25
29 13 80	16	5,4	7,8	50	21	2200	25
29 13 82	25	6,9	9,4	55	23	2950	25
29 13 84	35	8,3	11,3	70	30	5200	25
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



Brass sleeves for soldering

CuZn 40 Pb2 acc. to DIN 17660, tinned
screw: DIN 551 steel tinned

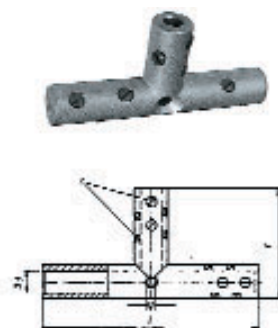
Art. No.	CS	L	D	Ø	Z	weight/100 psc.
29 20 10	6	25	3,0	2,0	2	0,60
29 20 12	10	30	4,5	3,0	2	1,15
29 20 14	16	40	5,5	3,5	4	1,85
29 20 16	25	45	7,0	4,0	6	2,70
29 20 18	35	45	8,5	4,0	6	2,80
29 20 20	50	48	10,0	5,0	6	3,75
29 20 22	70	52	12,0	6,0	6	5,75
29 20 24	95	55	13,5	7,0	8	7,65
29 20 26	120	60	15,0	7,0	8	9,90
29 20 28	150	64	17,0	8,0	8	11,80
29 20 30	185	70	19,0	9,0	8	14,30
29 20 32	240	70	21,0	9,0	10	15,50
29 20 40	300	75	24,0	9,0	12	21,60



Brass-T-connectors for soldering

CuZn 40 Pb2 acc. to DIN 17660, tinned
screw: DIN 551 steel tinned

Art. No.	CS	L	B	D	Ø	Ø	Z	weight/100 psc..
29 20 50	4 - 6	30	18	3,0	2,5	3	3	1,05
29 20 52	10	40	25	4,5	3,5	3	3	2,15
29 20 54	16	42	27	5,5	3,5	6	6	2,50
29 20 56	25	45	29	7,0	4,5	6	6	3,70
29 20 58	35	52	32	8,5	4,5	6	6	4,30
29 20 60	50	56	34	10,0	6,0	9	9	7,40
29 20 62	70	62	41	12,0	6,5	9	9	9,80
29 20 64	95	68	44	13,5	7,0	9	9	12,80



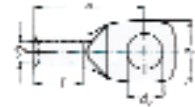
haupa®

...Technology that connects

Terminals, type ring

clean nickel, permanence of temperature 650° 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	0,5 - 1	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	1,5 - 2,5	5	2,3	5,3	8,5	14	6	105	100
29 25 68	1,5 - 2,5	6	2,3	6,5	9,5	16	6	130	100
29 25 70	4 - 6	4	3,6	4,3	8,5	18	8	275	100
29 25 72	4 - 6	5	3,6	5,3	9,5	19	8	275	100
29 25 74	4 - 6	6	3,6	6,5	9,5	19	8	270	100



Terminals, type fork

clean nickel, permanence of temperature 650° 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	0,5 - 1	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	1,5 - 2,5	5	2,3	5,3	8,5	14	6	105	100
29 25 88	1,5 - 2,5	6	2,3	6,5	9,5	16	6	130	100
29 25 90	4 - 6	4	3,6	4,3	8,5	18	8	275	100
29 25 92	4 - 6	5	3,6	5,3	9,5	19	8	275	100
29 25 94	4 - 6	6	3,6	6,5	9,5	19	8	270	100



Butt space connectors

clean nickel, permanence of temperature 650° 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



CS cross section in mm²
 FL flange hole
 IF identification figure
 le. of pl. length of plug in mm

M bolt M in mm
 plug flat plug
 PU packing unit in pieces
 RM round multywiring

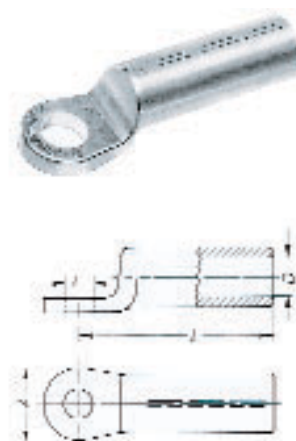
RS round singlewiring
 SM sectorshape multywiring
 socket flat socket
 SS sectorshape singlewiring

weight in gr.
 Ø bo Ø bolt in mm
 Ø rope Ø rope mm

Al-crimping terminals DIN 46329**Aluminium**

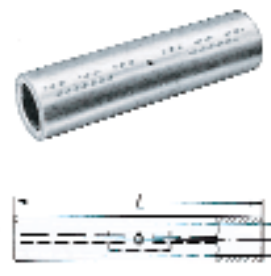
aluminium compression lugs for hexagonal pressing, extruded

Art. No.	RM/SM	SE	M	E	L	A	D Ø	IF	crimps quantity		kg/100 pc
									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
29 28 24	500	-	20	21	122	44	29	44	-	4	42,80

**Al-crimping terminals DIN 46341, part 2****Aluminium**

for exonerated connections DIN 48201, page 5, electrolytic-copper-tube, bright

Art. No.	CS mm ²				crimps quantity		weight	PU
	RM/SM	SE	D	L	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

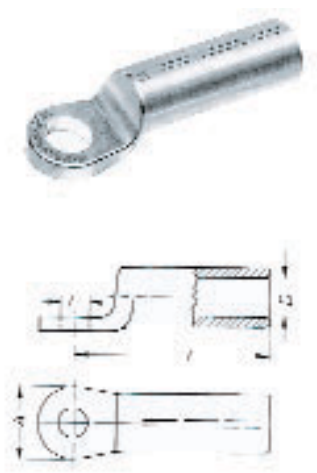
**haupa**[®]**...Technology that connects**

Al-terminals for dense conductives

Aluminium

length-density for Al-rope acc. to DIN 48201 and Al-cable conductives acc. to DIN 57295

Art. No.	CS (mm ²)		M	E	L	A	Ø D	IF	crimps quantity		kg/100 pc
	RM/SM	RE/SE							small	wide	
29 34 00	50	-	10	10,5	62	24	10,0	16	5	3	2,40
29 34 02	50	-	12	13	62	24	10,0	16	5	3	2,30
29 34 04	70	-	10	10,5	72	25	11,0	18	6	3	3,50
29 34 06	70	-	12	13,0	72	25	11,0	18	6	3	3,30
29 34 08	95	-	10	10,5	78	25	12,5	22	6	3	7,40
29 34 10	95	-	12	13	78	25	12,5	22	6	3	7,40
29 34 12	95	-	16	17	78	25	12,5	22	6	3	6,70
29 34 14	120	-	10	10,5	83	30	14,0	22	6	3	6,80
29 34 16	120	-	12	13	83	30	14,0	22	6	3	6,80
29 34 18	120	-	16	17	83	30	14,0	22	6	3	6,50
29 34 20	150	-	10	10,5	90	30	15,5	25	7	3	8,80
29 34 22	150	-	12	13	90	30	15,5	25	7	3	8,80
29 34 24	150	-	16	17	90	30	15,5	25	7	3	8,40
29 34 26	150	-	20	21	90	30	15,5	25	7	3	8,40
29 34 28	185	-	10	10,5	91	30	17,5	28	7	3	11,10
29 34 30	185	-	12	13	91	30	17,5	28	7	3	11,00
29 34 32	185	-	16	17	91	30	17,5	28	7	3	11,20
29 34 34	185	-	20	21	91	30	17,5	28	7	3	11,20
29 34 36	240	-	12	13	103	38	20,0	32	8	3	15,90
29 34 38	240	-	16	17	103	38	20,0	32	8	3	15,50
29 34 40	240	-	20	21	103	38	20,0	32	8	3	16,20
29 34 42	300	-	12	13	103	38	22,0	34	8	3	17,40
29 34 44	300	-	16	17	103	38	22,0	34	8	3	17,40
29 34 46	300	-	20	21	103	38	22,0	34	8	3	19,10
29 34 48	400	-	12	13	116	38	25,5	38	-	4	34,00
29 34 50	400	-	16	17	116	38	25,5	38	-	4	34,00
29 34 52	400	-	20	21	116	38	25,5	38	-	4	35,50
29 34 54	500	-	12	13	122	44	28,5	44	-	4	40,50
29 34 56	500	-	16	17	122	44	28,5	44	-	4	40,50
29 34 58	500	-	20	21	122	44	28,5	44	-	4	40,30



CS cross section in mm ²	M bolt M in mm	RS round singlewiring	weight in gr.
FL flange hole	plug flat plug	SM sectorshape multywiring	Ø bo Ø bolt in mm
IF identification figure	PU packing unit in pieces	socket flat socket	Ø rope Ø rope mm
le. of pl. length of plug in mm	RM rund multywiring	SS sectorshape singlewiring	

Al- and Cu- crimping terminals for exonerated connectors

Aluminium
Copper

for exonerated connections, Al 99,5% DIN 40501, E-Cu DIN 40500, 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	42	113	19550	10
29 36 68	185	240	185	18,3	19	28	50	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



Al- and Cu- crimping terminals

for Al DIN 48201, hexagon pressing,
Al 99,5%, DIN 40501, E-Cu DIN 40500, bright

**Aluminium
Copper**

Art. No.	CS mm ²								crimps quantity			weight	PU
	RM/SM	SE	M	D	E	A	L	small	wide				
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	35	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	50	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	70	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	95	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	120	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	150	185	16	16,5	17	41	108,5	6	3	12300	25		
29 39 40	150	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	185	240	16	18,5	17	42	106	7	3	15500	20		
29 39 46	185	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	240	300	16	21,5	17	45	115	7	3	21000	15		
29 39 52	240	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	300	-	20	24,5	21	51	121	7	3	35000	10		

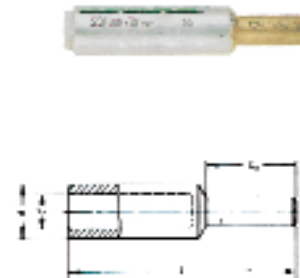


Al-crimping terminals with Cu-bolts

Al 99,5%, DIN 40501, E-Cu DIN 40500, bright

**Aluminium
Copper**

Art. No.	CS mm ²								weight	PU
	RM/SM	SE	bolt-Ø	ropes-Ø	d Ø	d1 Ø	l1	L		
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

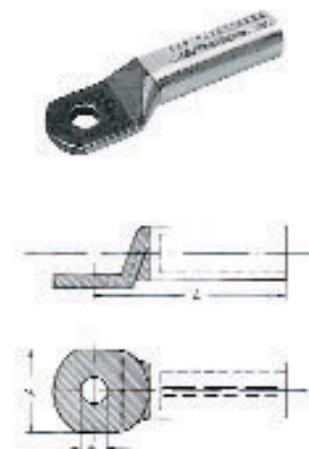


Al- and Cu- crimping terminals

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.

**Aluminium
Copper**

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	25	-	10	10,5	61	23	6,8	12	4	2	3,10	
29 33 04	25	-	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	35	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	50	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	70	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	95	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	120	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	150	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	185	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	240	300	16	17	120	36	21	32	8	3	29,80	



CS cross section in mm²
 FL flange hole
 IF identification figure
 le. of pl. length of plug in mm
 M bolt M in mm
 plug flat plug
 PU packing unit in pieces
 RM rund multywiring
 RS round singlewiring
 SM sectorshape multywiring
 socket flat socket
 SS sectorshape singlewiring
 weight in gr.
 Ø bo Ø bolt in mm
 Ø rope Ø rope mm

Pliers for:

insulated terminals

CS	Crimping plier	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 - 4,0	21 08 32			23
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

End sleeves, tinned and insulated

CS	Crimping plier	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
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

noninsulated terminal

CS	Crimping plier	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,1 - 10,0	21 08 10			25
0,5 - 16,0	21 07 99			25
0,75 - 2,5	21 07 78			25
0,75 - 6,0	21 08 06			25
	21 08 08			24
1,25 - 6,0	21 07 79			25
1 - 16,0	21 07 72			25
	21 07 74			25
1,5 - 10,0	21 07 64			25

brass sleeves

CS	Crimping plier	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,1 - 1,0	21 16 66			26
0,14 - 1,0	21 08 23			26
	21 08 33			26
0,14 - 1,5	21 16 68			26
0,25 - 6,0	21 07 62			26
0,5 - 1,0	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

Pliers for:

Coaxialconnectors

CS	Crimping plier	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

Modular Plug (Telecommunication)

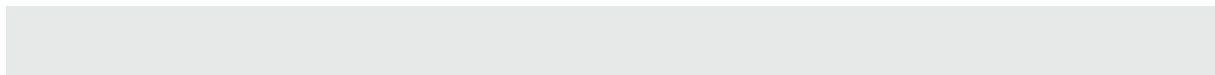
CS	Crimping plier	mechan. tools	pneum. hydraul. tools	Catalogue-page
4-polig	21 09 71			28
4-polig	21 08 67			28
6-polig	21 09 73			28
6-polig	21 08 65			28
8-polig	21 09 81			28
8-polig	21 08 69			28
8-polig	21 30 51			29
8-polig	21 30 52			29
8-polig	21 30 54			29
6 und 8-polig	21 08 57			28
4 bis 8-polig	21 08 22			28
	21 08 71			28
	21 30 50			28
4 bis 10-polig	21 30 00			28
	21 30 20			29
	21 30 70			29

noninsulated tube terminal

CS	Crimping plier	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,75 - 16	21 08 30			30
6,0 - 50	21 08 05			30
	21 08 05/K (DIN)			30
		21 50 00		34
	21 08 34			30
6,0 - 120		21 51 00		36
6,0 - 185	21 08 56			32
10 - 120	21 07 91			30
	21 08 50			30
	21 08 53 DIN			30
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
10 - 400		21 53 00		40
50 - 120	21 08 36			30
95 - 630			21 62 36	52
95 - 630			21 62 50	52
120 - 240	21 08 38			30
120 - 1000			21 63 02	53
185 - 400	21 08 40			30

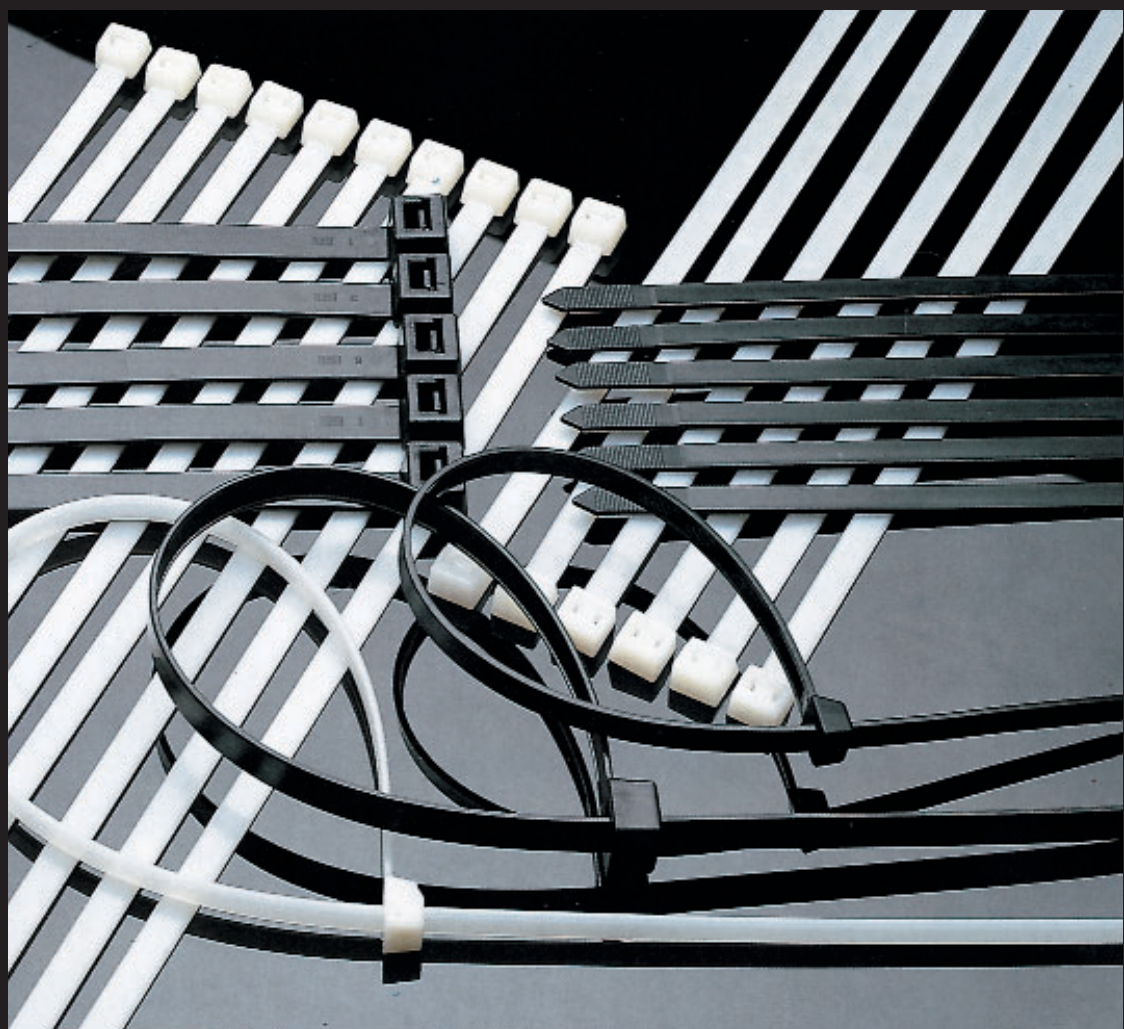


...Technology that connects



Expendable items(WG 30)

Cable ties
Tensioning tools
Heat shrinkable tubes



Cable ties

material: nylon 6,6 - colour natural, low cost components, 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



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.



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

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: polyamide 6,6 - 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: polyamide 6,6 - colour black, 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 26 01	96	2,5	23	8	300	1000/	30000
26 26 09	142	3,2	35	18	700	1000/	10000

Releasable cable ties

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

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

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

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

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.	width mm	colour	weight	PU	PU
26 21 60	to 3,6 mm	natural	780	100/	1000
26 21 61	to 3,6 mm	black	800	100/	1000
26 21 62	to 4,8 mm	natural	850	100/	500
26 21 63	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



Art. No.	width	colour	weight	PU	PU
26 21 64	to 7,8 mm	natural	150	100/	10000
26 21 65	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

haupa®

...Technology that connects

Heat shrinkable tubes

of polyolefin, radiation interlaced, 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

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

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.	Sb von	Sb auf	WS	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

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	weight	PU
14 22 00	25,0	1250	1
14 22 02	30,5	1350	1
14 22 04	50,0	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 MS 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 21
- Starting ball, Art. No. 14 22 30
- Connection sleeves, Art. No. 14 22 15
- Pressing part, Art. No. 14 22 17



Art. No.	set	weight	PU
14 22 25	7pieces	50	1

Steel fish tapes

with eyelet and brass rolling ball



Art. No.	length m	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

haupa®

...Technology that connects

Spiral fish tapes

made from steel spirals, fourfold twisted, with solid steel end pieces



Art. No.	length m	Ø	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“, with solid steel end pieces with additional pilot spring, approx. 120 mm length, strip size 3 mm



Art. No.	length m	Ø	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

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	Ø	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

Perlon fish tapes

made from stretched „Bayer-Perlon wire“, with solid steel end pieces with additional pilot spring, approx. 120 mm length, strip size 4 mm



Art. No.	length m	Ø	weight	PU
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“, with solid steel end pieces, with 2 eyes, strip size 3 mm



Art. No.	length m	Ø	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

Perlon fish tapes

made from stretched „Bayer-Perlon wire“, with solid steel end pieces, with 2 eyes, strip size 4 mm



Art. No.	length m	Ø	weight	PU
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“, with solid steel end pieces, with 2 spring and 2 eyes, strip size 4 mm



Art. No.	length m	Ø	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

CS cross section in mm²
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

Index

A	Page	E	Page
Accu crimping tool	44, 48, 50	Electricians' scissors	8
Al- and Cu- crimping terminals	96	Electrohydraulic punching tools	54
Al- and Cu- crimping terminals for exonerated connectors	95	Elektro-hydraulic pump	13, 53
Al-crimping terminals DIN 46329	93	Empty boxes	61
Al-crimping terminals DIN 46341, part 2	93	End connectors, nylon-insulated	60
Al-crimping terminals with Cu-bolts	96	End sleeve assortment	69, 70
Al-terminals for dense conductives	94	End sleeves	66, 67, 70, 72
Assortement box with Twin end sleeves	67	End sleeves assortment	71
Assortements insulated terminals	62	F	Page
Automatic cable stripper	19	Flat cable pliers	19
Automatic stripping tongs HAUPA-Special	19	Flatcable strippers	16
Automatic wire stripper	19	Fork type	57, 61
B	Page	Front cable cutters	10
Basis program	5	Front-Crimping plier	22, 23
Blade pin	57	H	Page
Blade terminals (male)	76	Hand cable cutter	11
Blade terminals, 1 - 12 way	76	Heat shrinkable tubes	102
Box for end sleeve strips	19	Hot air gun	102
Brass sleeves for soldering	91	Hydraulic cable cutter	12
Brass-T-connectors for soldering	91	Hydraulic crimping headstock	44, 46, 48, 50, 52, 53
Bullet	60	Hydraulic crimping headstock set	52
Butt connectors	58	Hydraulic cutter	12
Butt connectors, nylon-insulated	61	Hydraulic cutting headstock	12
Butt space connectors	92	Hydraulic foot pump	13, 53
C	Page	Hydraulic hand plier	44, 46, 48, 50
Cable cutters	8, 9, 10, 11	Hydraulic high-pressure hose	13, 53
Cable strippers "Kabifix LWL"	16	I	Page
Cable strippers „Kabifix“	16	Instructions	78
Cable stripping knives	16	M	Page
Cable ties	100	Magazine for Quadro	18
Cable ties system in casket	103	Manual crimping tool for Western plugs	29
Circuit distributors	77	Mechanic cable cutter	11
Combi-Crimping pliers	24	Mechanical hand crimping tool	34, 36, 38, 40
Connection-sleeve	103	Metalboxes	34, 36, 38
Connectors	90	Metalboxes for Crimping plier 21 08 56	32
Connectors DIN 46267 part 1/ Butt connector	89, 90	N	Page
Crimp cable lugs DIN 46235	86	Noninsulated crimping terminals	79, 80
Crimp type tubular connectors DIN 46341 part 1, form A	89	Noninsulated crimping terminals DIN 46235	85
Crimp type tubular connectors DIN 46341 part 1, form B	89	Noninsulated tube terminals	82, 83
Crimp-Crimping plier	26, 28	O	Page
Crimping dies	45	One hand cable cutters	9
Crimping dies	28, 45, 46, 47, 49, 51, 54	P	Page
Crimping dies for 21 50 00	35	Parallel connectors	58
Crimping dies for 21 51 00	37	PC-Strip	17
Crimping dies for 21 52 00	39	Perlon fish tapes	104
Crimping dies for 21 53 00	41	Pliers for - End sleeves, bright and insulated	72
Crimping dies for 21 55 86	45	Pneumatic foot pump	13
Crimping dies for 21 58 00	46	Polyethene spiral binding	102
Crimping dies for 21 62 36	52	Precision stripper	17
Crimping dies for 21 63 02	53	Precision stripper PWS Plus	17
Crimping plier	22, 23, 24, 25, 26, 30, 31, 32	Pressing ledge for drawing helps	103
Crimping plier for coax-connections	27	Product news	4, 5
Crimping plier for modular plug	28, 29	Profi Crimping pliers	28
Crimping plier for Western plugs	29	PVC insulated crimping terminals copper tinned	56
Crimping plier-Twin	22	Q	Page
Crimping pliers	22, 24, 25, 30	Quadro complete set in case	18
Crimping terminals DIN 46234	81	Quadro with magazine	18
Crimping tool	28	R	Page
Crimping tube terminals, nylon insulated	88	Rapid connectors	58
Crimping tube tubular connectors/Butt space connectors	88	Releasable cable ties	100
Crimping tubular angle terminals	87	Ring terminals	75
Cutting pistol	8	Ring type	57, 60
D	Page	Round pin	58
Dies	28, 29	Round pin, nylon-insulated	61
Dies for crimping plier 210856	32, 33	S	Page
Dispenser boxes	69	Schneidpistole	8
Dispenser boxes with insulated end sleeves	68, 69	Screw type sockets	101
Dispenser boxes with noninsulated end sleeves	71	Self adhesive sockets	101
Double edged cable cutter acc. to EN 60900	4	Sensor Tool LSA Plus	17
Double-locking-Cable ties	101	Sleeves	76
Dowel Mounting sockets/ Christmas trees	101	Socket (male)	75
Drawing garter	103	Socket sleeve (female)	59
Drawing help	103	Socket sleeve (female)	74

S	Page
Socket sleeve (female) with piggy back	59
Socket sleeve (female), totally insulated	59
Socket sleeve (male)	59
Sockets (female)	60
Spare glass fibre tape	103
Spare part set for cable ties system	103
Special cable cutter	11
Spiral fish tapes	104
Starting ball	103
Steel fish tapes	103
Strippers	16
Strippers "Coaxi"	17
Strippers for UTP-/ STP- data cable	17
Strippers „Coaxi“	16
Super cable cutters	8
Super wire stripper	19
T	Page
T-connectors	90
Technical indication to the different crimping fomats	32
Tensioning tools for Cable ties	101
Terminals assortement, DIN	85
Terminals assortement, standard	83
Terminals for the wiring of electric-meters	63
Terminals, type fork	92
Terminals, type ring	92
The Quality	56
Tool bag	40
Tool case	29
Transport case	46, 52
Tube terminals for finewiring conductors	84
Twin-end sleeves for two wires	67
U	Page
Universal crimping plier	25
Universal strippers	16
W	Page
Wire stripper	19
Wire stripper „High Strip“	19
Wire stripping plier	18
X	Page
X-connectors	91

Art. No.	Page	Art. No.	Page	Art. No.	Page	Art. No.	Page	Art. No.	Page	Art. No.	Page
14 22 00	103	20 00 76	9	21 08 19	22	21 11 64	33	21 30 72	29	21 52 26	39
14 22 02	103	20 00 78	9	21 08 21	28	21 11 65	33	21 50 00	34	21 52 28	39
14 22 04	103	20 00 79	9	21 08 22	28	21 11 66	33	21 50 02	34	21 52 30	39
14 22 10	103	20 00 84	8	21 08 23	26	21 11 67	33	21 50 04	35	21 52 32	39
14 22 11	103	20 00 86	8	21 08 27	24	21 11 68	33	21 50 06	35	21 52 34	39
14 22 12	103	20 00 87	8	21 08 30	30	21 11 69	33	21 50 08	35	21 52 36	39
14 22 13	103	20 00 88	8	21 08 32	23	21 11 70	33	21 50 10	35	21 52 38	39
14 22 14	103	20 00 89	9	21 08 33	26	21 11 71	33	21 50 12	35	21 52 40	39
14 22 15	103	20 00 95	9	21 08 34*	30	21 11 72	33	21 50 14	35	21 52 42	39
14 22 16	103	20 00 96	9	21 08 36	30	21 11 74	33	21 50 16	35	21 52 44	39
14 22 17	103	20 00 99	9	21 08 38	30	21 11 75	33	21 50 18	35	21 52 46	39
14 22 18	103	20 01 00	9	21 08 40	30	21 11 76	33	21 50 20	35	21 52 48	39
14 22 19	103	20 01 02	9	21 08 41	22	21 11 77	33	21 50 22	35	21 52 50	39
14 22 20	103	20 01 04	9	21 08 42	22	21 11 78	33	21 50 24	35	21 52 52	39
14 22 25	103	20 01 05	8	21 08 45	24	21 11 79	33	21 50 26	35	21 52 54	39
14 22 29	103	20 01 06	9	21 08 49	27	21 11 80	33	21 50 28	35	21 52 56	39
14 22 30	103	20 01 11	10	21 08 50	30	21 11 81	33	21 50 30	35	21 52 58	39
15 01 52	103	20 01 12	10	21 08 53	30	21 11 82	33	21 50 32	35	21 52 60	39
15 01 54	103	20 01 13	11	21 08 56	32	21 11 83	33	21 50 34	35	21 52 62	39
15 01 56	103	20 01 14	11	21 08 57	28	21 11 84	33	21 50 36	35	21 52 64	39
15 01 58	103	20 01 15	11	21 08 60	32	21 11 85	33	21 50 38	35	21 52 66	39
15 02 00	104	20 01 16	11	21 08 62	32	21 11 93	33	21 50 40	35	21 52 68	39
15 02 02	104	20 01 17	11	21 08 64	32	21 16 50	22	21 50 42	35	21 53 00	40
15 02 04	104	20 01 19	11	21 08 65	28	21 16 52	22	21 50 44	35	21 53 02	41
15 02 06	104	20 01 22	8	21 08 66	32	21 16 56	31	21 50 46	35	21 53 04	41
15 02 08	104	20 01 24	10	21 08 67	28	21 16 58	31	21 50 48	35	21 53 06	41
15 02 10	104	20 01 26	10	21 08 68	32	21 16 60	31	21 50 50	35	21 53 08	41
15 02 20	104	20 01 31	10	21 08 69	28	21 16 62	31	21 51 00	36	21 53 10	41
15 02 22	104	20 01 51	10	21 08 70	32	21 16 64	26	21 51 02	36	21 53 12	41
15 02 24	104	20 02 10	8	21 08 71	28	21 16 66	26	21 51 04	37	21 53 14	41
15 02 26	104	20 06 00	17	21 08 72	32	21 16 68	26	21 51 06	37	21 53 16	41
15 02 28	104	20 06 02	17	21 08 74	32	21 16 72	22	21 51 08	37	21 53 18	41
15 02 30	104	20 06 04	17	21 08 76	32	21 16 74	22	21 51 10	37	21 53 20	41
15 02 32	104	20 06 22	17	21 08 78	32	21 16 76	22	21 51 12	37	21 53 22	41
15 02 34	104	21 06 80	18	21 08 80	32	21 16 78	22	21 51 14	37	21 53 24	41
15 02 36	104	21 06 81	19	21 08 90	32	21 16 80	27	21 51 16	37	21 53 26	41
15 02 38	104	21 06 82	18	21 08 92	32	21 16 82	26	21 51 18	37	21 53 28	41
15 02 39	104	21 06 82/1	18	21 08 94	32	21 16 84	26	21 51 20	37	21 53 30	41
15 02 41	104	21 06 82/2	18	21 08 96	32	21 16 86	26	21 51 22	37	21 53 32	41
15 02 43	104	21 06 82/3	19	21 08 98	32	21 19 28	19	21 51 24	37	21 53 34	41
15 02 45	104	21 06 83	19	21 09 00	32	21 19 30	19	21 51 26	37	21 53 36	41
15 02 47	104	21 06 84	19	21 09 02	32	21 23 72	52	21 51 28	37	21 53 38	41
15 04 50	104	21 06 85	19	21 09 04	32	21 23 76	52	21 51 30	37	21 53 40	41
15 04 52	104	21 06 86	19	21 09 06	32	21 23 80	52	21 51 42	37	21 53 42	41
15 04 54	104	21 06 88	18	21 09 10	33	21 23 82	52	21 51 44	37	21 53 48	41
15 04 56	104	21 06 90	19	21 09 14	33	21 23 84	52	21 51 46	37	21 53 50	41
15 04 58	104	21 07 61	24	21 09 16	33	21 23 88	52	21 51 48	37	21 53 52	41
15 04 62	104	21 07 62	26	21 09 18	33	21 23 90	52	21 51 50	37	21 53 54	41
15 04 64	104	21 07 63	22	21 09 20	33	21 23 92	52	21 51 52	37	21 53 56	41
15 04 66	104	21 07 64	25	21 09 24	33	21 23 94	52	21 51 54	37	21 53 58	41
15 04 68	104	21 07 65	22	21 09 26	33	21 23 96	52	21 51 56	37	21 53 60	41
15 04 70	104	21 07 67	27	21 09 30	33	21 30 00	28	21 51 58	37	21 53 62	41
15 04 76	104	21 07 68	22	21 09 32	33	21 30 02	28	21 51 60	37	21 53 64	41
15 04 78	104	21 07 72	25	21 09 34	33	21 30 04	28	21 51 62	37	21 53 66	40
15 04 80	104	21 07 74	25	21 09 36	33	21 30 06	28	21 51 64	37	21 55 10	46
15 04 82	104	21 07 77	26	21 09 38	33	21 30 08	28	21 51 66	37	21 55 10/A	45
20 00 22	16	21 07 78	25	21 09 40	33	21 30 10	28	21 51 68	37	21 55 12	46
20 00 23	16	21 07 79	25	21 09 42	33	21 30 12	28	21 51 70	37	21 55 12/A	45
20 00 24	16	21 07 85	26	21 09 44	33	21 30 14	28	21 51 72	37	21 55 14	46
20 00 31	16	21 07 86	26	21 09 46	33	21 30 20	29	21 52 00	38	21 55 14/A	45
20 00 33	17	21 07 88	23	21 09 48	33	21 30 22	29	21 52 01	39	21 55 16	46
20 00 35	16	21 07 89	23	21 09 50	33	21 30 24	29	21 52 02	38	21 55 16/A	45
20 00 36	16	21 07 91	30	21 09 52	33	21 30 26	29	21 52 03	39	21 55 18	46
20 00 37	16	21 07 99	25	21 09 60	33	21 30 28	29	21 52 04	39	21 55 18/A	45
20 00 38	16	21 08 00	22	21 09 62	33	21 30 30	29	21 52 05	39	21 55 20	46
20 00 39	17	21 08 02	24	21 09 64	33	21 30 32	29	21 52 06	39	21 55 20/A	45
20 00 40	16	21 08 04	22	21 09 66	33	21 30 34	29	21 52 07	39	21 55 21	46
20 00 42	16	21 08 05	30	21 09 68	33	21 30 36	29	21 52 08	39	21 55 21/A	45
20 00 43	16	21 08 05K	30	21 09 71	28	21 30 38	29	21 52 10	39	21 55 22	46
20 00 44	16	21 08 06	25	21 09 73	28	21 30 40	29	21 52 12	39	21 55 22/A	45
20 00 46	16	21 08 08	24	21 09 79	22	21 30 50	28	21 52 14	39	21 55 24	46
20 00 62	8	21 08 10	25	21 09 79 A	22	21 30 51	29	21 52 16	39	21 55 24/A	45
20 00 64	8	21 08 11	28	21 09 79 B	22	21 30 52	29	21 52 18	39	21 55 26	46
20 00 68	17	21 08 12	28	21 09 81	28	21 30 54	29	21 52 20	39	21 55 26/A	45
20 00 69	17	21 08 13	28	21 11 62	33	21 30 60	29	21 52 22	39	21 55 28	46
20 00 75	8	21 08 14	24	21 11 63	33	21 30 70	29	21 52 24	39		

Art. No.	Page	Art. No.	Page	Art. No.	Page	Art. No.	Page	Art. No.	Page	Art. No.	Page
21 55 28/A	45	21 60 28	51	21 61 50	49	21 67 46	54	26 03 76	58	26 07 52	61
21 55 30	46	21 60 30	49	21 61 50	51	210856/K	32	26 03 80*	59	26 07 54	61
21 55 30/A	45	21 60 30	51	21 61 52	49	22 00 90	61	26 03 82*	59	26 07 60	62
21 55 32	46	21 60 36	49	21 61 52	51	22 00 91	61	26 03 84*	59	26 07 62	62
21 55 32/A	45	21 60 36	51	21 61 54	49	22 00 92	61	26 03 86*	59	26 07 64	62
21 55 36	46	21 60 38	49	21 61 54	51	22 00 93	61	26 03 88*	59	26 07 70	61
21 55 36/A	45	21 60 38	51	21 61 56	49	26 02 50	57	26 03 90*	59	26 07 72	61
21 55 38	46	21 60 40	49	21 61 56	51	26 02 51	57	26 03 92*	59	26 07 74	61
21 55 38/A	45	21 60 40	51	21 62 36	52	26 02 52	57	26 03 94*	59	26 08 58	63
21 55 40	46	21 60 42	49	21 62 38	13	26 02 54	57	26 03 96	59	26 08 60	63
21 55 40/A	45	21 60 42	51	21 62 38	53	26 02 56	57	26 04 00	59	26 08 62	63
21 55 42	46	21 60 44	49	21 62 40	13	26 02 58	57	26 04 02	59	26 08 63	63
21 55 42/A	45	21 60 44	51	21 62 40	53	26 02 60	57	26 04 04	59	26 08 90	63
21 55 44	46	21 60 46	49	21 62 42	13	26 02 62	57	26 04 10	59	26 08 91	63
21 55 44/A	45	21 60 46	51	21 62 42	53	26 02 64	57	26 04 12	59	26 08 92	63
21 55 46	46	21 60 48	49	21 62 44	13	26 02 65	57	26 04 14*	59	26 08 93	63
21 55 46/A	45	21 60 48	51	21 62 44	53	26 02 66	57	26 04 15*	59	26 08 95	63
21 55 48	46	21 60 50	49	21 62 50	52	26 02 67	57	26 04 16*	59	26 08 96	63
21 55 48/A	45	21 60 50	51	21 62 51	52	26 02 68	57	26 04 17*	59	26 08 97	63
21 55 58	47	21 60 52	49	21 63 00	53	26 02 70	57	26 04 18	59	26 08 98	63
21 55 58/A	45	21 60 52	51	21 63 02	53	26 02 72	57	26 04 22	59	26 08 99	63
21 55 60	47	21 60 54	49	21 63 04	53	26 02 74	57	26 04 24	59	26 09 00	63
21 55 60/A	45	21 60 54	51	21 63 06	53	26 02 76	57	26 04 26	59	26 20 41	84
21 55 62	47	21 60 56	49	21 63 08	53	26 02 78	57	26 04 27	60	26 20 48	62
21 55 62/A	45	21 60 56	51	21 63 10	53	26 02 82	57	26 04 28	60	26 20 60	102
21 55 64	47	21 60 88	49	21 63 12	53	26 02 84	57	26 04 30	60	26 20 62	102
21 55 64/A	45	21 60 88	51	21 63 14	53	26 02 86	57	26 04 31	60	26 20 64	102
21 55 66	47	21 60 90	49	21 63 16	53	26 02 88	57	26 04 40*	60	26 20 66	102
21 55 66/A	45	21 60 90	51	21 63 18	53	26 02 90	57	26 04 42*	60	26 20 68	102
21 55 68	47	21 60 92	49	21 63 20	53	26 02 92	57	26 04 43*	60	26 20 69	102
21 55 68/A	45	21 60 92	51	21 63 22	53	26 02 99	57	26 04 44	60	26 20 73	102
21 55 70	47	21 60 94	49	21 63 24	53	26 03 00	57	26 04 46*	60	26 20 74	102
21 55 70/A	45	21 60 94	51	21 63 26	53	26 03 02	57	26 04 48*	60	26 20 75	102
21 55 72	47	21 60 96	49	21 63 28	53	26 03 04	57	26 04 49*	60	26 20 76	102
21 55 72/A	45	21 60 96	51	21 63 30	53	26 03 06	57	26 04 50	60	26 20 85	102
21 55 74	47	21 60 98	49	21 63 32	53	26 03 08	57	26 06 51	60	26 20 86	102
21 55 74/A	45	21 60 98	51	21 63 34	53	26 03 09	57	26 06 54	60	26 20 87	102
21 55 76	47	21 61 00	49	21 63 36	53	26 03 10	57	26 06 56	60	26 20 88	102
21 55 76/A	45	21 61 00	51	21 63 38	53	26 03 12	57	26 06 58	60	26 20 89	102
21 55 78	47	21 61 12	49	21 63 40	53	26 03 14	57	26 06 60	60	26 20 90	102
21 55 78/A	45	21 61 12	51	21 63 46	13	26 03 16	57	26 06 62	60	26 20 91	102
21 55 80	47	21 61 14	49	21 63 48	13	26 03 18	57	26 06 64	60	26 20 92	102
21 55 80/A	45	21 61 14	51	21 63 48	53	26 03 20	57	26 06 66	60	26 20 93	102
21 55 82	47	21 61 16	49	21 63 50	13	26 03 21	57	26 06 67	60	26 20 93/75	102
21 55 82/A	45	21 61 16	51	21 63 52	13	26 03 22	57	26 06 70	60	26 20 94	102
21 55 84	47	21 61 18	49	21 63 52	53	26 03 24	57	26 06 72	60	26 20 95	102
21 55 84/A	45	21 61 18	51	21 64 00	12	26 03 26	57	26 06 74	60	26 20 96	102
21 55 86	44	21 61 20	49	21 64 01	12	26 03 28	57	26 06 76	60	26 20 97	102
21 57 55	44	21 61 20	51	21 64 02	12	26 03 30	57	26 06 78	60	26 21 00	100
21 57 60	44	21 61 24	48	21 64 04	12	26 03 31	57	26 06 84	60	26 21 01	100
21 58 00	46	21 61 26	49	21 64 06	12	26 03 32	57	26 06 86	60	26 21 02	100
21 58 02	46	21 61 26	51	21 64 08	12	26 03 33	57	26 06 88	60	26 21 06	100
21 59 46	50	21 61 28	49	21 64 10	12	26 03 34	57	26 06 90	60	26 21 08	100
21 59 80	50	21 61 28	51	21 64 12	12	26 03 35	57	26 06 92	60	26 21 10	100
21 60 04	48	21 61 30	49	21 64 14	12	26 03 36	58	26 07 00	61	26 21 14	100
21 60 08	49	21 61 30	51	21 65 00	50	26 03 37	58	26 07 02	61	26 21 16	100
21 60 08	51	21 61 32	49	21 66 00	48	26 03 38	58	26 07 04	61	26 21 20	100
21 60 10	49	21 61 32	51	21 67 00	54	26 03 50	58	26 07 06	61	26 21 22	100
21 60 10	51	21 61 34	49	21 67 10	54	26 03 52	58	26 07 08	61	26 21 24	100
21 60 12	49	21 61 34	51	21 67 12	54	26 03 54	58	26 07 10	61	26 21 26	100
21 60 12	51	21 61 36	49	21 67 14	54	26 03 60	58	26 07 14	61	26 21 28	100
21 60 14	49	21 61 36	51	21 67 16	54	26 03 62	58	26 07 16	61	26 21 30	100
21 60 14	51	21 61 38	49	21 67 18	54	26 03 64	58	26 07 18	61	26 21 32	100
21 60 16	49	21 61 38	51	21 67 20	54	26 03 70	58	26 07 20	61	26 21 34	100
21 60 16	51	21 61 40	49	21 67 21	54	26 03 71	58	26 07 21	61	26 21 36	100
21 60 18	49	21 61 40	51	21 67 22	54	26 03 72	58	26 07 22	61	26 21 40	100
21 60 18	51	21 61 42	49	21 67 24	54	26 03 73	58	26 07 24	61	26 21 42	100
21 60 20	49	21 61 42	51	21 67 26	54	26 03 74	58	26 07 50	61	26 21 44	100
21 60 20	51	21 61 44	49	21 67 28	54						
21 60 22	49	21 61 44	51	21 67 30	54						
21 60 22	51	21 61 46	49	21 67 32	54						
21 60 24	49	21 61 46	51	21 67 34	54						
21 60 24	51	21 61 47	49	21 67 36	54						
21 60 26	49	21 61 47	51	21 67 40	54						
21 60 26	51	21 61 48	49	21 67 42	54						
21 60 28	49	21 61 48	51	21 67 44	54						



...Technology that connects

Art. No.	Page	Art. No.	Page	Art. No.	Page	Art. No.	Page	Art. No.	Page	Art. No.	Page
26 21 51	101	27 00 36	66	27 01 66	70	27 08 14	66	28 02 02	76	29 00 61	86
26 21 52	101	27 00 37	71	27 01 68	70	27 08 14	67	28 02 04	76	29 00 63	86
26 21 54	101	27 00 38	66	27 01 70	70	27 08 15	66	28 02 06	76	29 00 64	86
26 21 58	101	27 00 39	71	27 01 72	70	27 08 15	67	28 02 08	76	29 00 65	86
26 21 60	101	27 00 40	66	27 01 74	70	27 08 16	66	28 02 10	76	29 00 66	86
26 21 61	101	27 00 42	66	27 01 76	70	27 08 16	67	28 02 12	76	29 00 67	86
26 21 62	101	27 00 44	66	27 01 78	70	27 08 18	66	28 02 14	76	29 00 68	86
26 21 63	101	27 00 46	66	27 01 80	70	27 08 20	66	28 04 60	76	29 00 69	86
26 21 64	101	27 00 48	66	27 01 82	70	27 08 22	66	28 04 82	76	29 00 70	86
26 21 65	101	27 00 49	66	27 01 84	70	27 08 24	66	28 04 90	76	29 00 71	86
26 21 70	101	27 00 50	66	27 01 86	70	27 08 26	66	28 05 12	76	29 00 72	86
26 21 72	101	27 00 66	72	27 01 88	70	27 08 28	66	28 05 20	76	29 00 73	86
26 25 00	100	27 00 68	72	27 01 90	70	27 08 30	66	28 05 42	76	29 00 74	86
26 25 01	100	27 00 70	72	27 01 92	70	27 08 32	66	28 05 50	76	29 00 75	86
26 25 02	100	27 00 72	72	27 01 94	70	27 08 34	66	28 05 72	76	29 00 76	86
26 25 03	100	27 00 74	72	27 01 95	70	27 08 36	66	28 05 80	77	29 00 77	86
26 25 04	100	27 00 76	72	27 01 96	70	27 08 38	66	28 05 82	77	29 00 78	86
26 25 05	100	27 00 78	72	27 01 98	70	27 08 40	66	29 00 01	86	29 00 79	86
26 25 06	100	27 00 79	72	27 02 17	71	27 08 42	66	29 00 03	86	29 00 80	86
26 25 07	100	27 00 80	72	27 02 18	71	27 08 44	66	29 00 04	83	29 00 81	86
26 25 08	100	27 00 82	72	27 07 14	67	27 08 50	68	29 00 05	86	29 00 82	86
26 25 09	100	27 00 84	72	27 07 15	67	27 08 52	68	29 00 06	83	29 00 83	86
26 25 10	100	27 00 86	72	27 07 16	67	27 08 54	68	29 00 07	86	29 00 84	86
26 25 11	100	27 00 87	72	27 07 19	67	27 08 56	68	29 00 08	83	29 00 85	80
26 25 12	100	27 00 88	72	27 07 20	67	27 08 58	69	29 00 09	83	29 00 86	80
26 25 13	100	27 00 89	72	27 07 21	67	27 08 70	69	29 00 10	83	29 00 88	80
26 25 16	100	27 00 90	72	27 07 22	67	27 08 78	69	29 00 11	86	29 01 35	80
26 25 17	100	27 00 91	72	27 07 23	67	27 08 82	69	29 00 12	83	29 01 36	80
26 25 18	100	27 00 92	72	27 07 24	67	27 08 84	70	29 00 13*	86	29 01 37	80
26 25 20	100	27 00 93	72	27 07 25	67	28 00 00	74	29 00 14	83	29 01 40	87
26 25 22	100	27 00 94	72	27 07 26	67	28 00 04	74	29 00 15*	86	29 01 42	87
26 25 28	100	27 00 96	72	27 07 27	67	28 00 08	74	29 00 16	83	29 01 44	87
26 25 30	100	27 00 97	72	27 07 28	67	28 00 12	74	29 00 17	83	29 01 46	87
26 25 32	100	27 00 98	72	27 07 32	67	28 00 16	74	29 00 18	83	29 01 50	87
26 25 36	100	27 01 00	72	27 07 38	67	28 00 20	74	29 00 19	86	29 01 52	87
26 25 38	100	27 01 02	72	27 07 40	67	28 00 30	74	29 00 20	83	29 01 54	87
26 25 40	100	27 01 04	72	27 07 42	67	28 00 34	74	29 00 21	86	29 01 56	87
26 25 42	100	27 01 06	72	27 07 44	67	28 00 38	74	29 00 22	83	29 01 60	87
26 25 46	100	27 01 07	72	27 07 46	67	28 00 42	74	29 00 23	83	29 01 62	87
26 26 00	100	27 01 08	72	27 07 48	67	28 00 46	74	29 00 24	83	29 01 64	87
26 26 01	100	27 01 10	72	27 07 50	67	28 00 50	74	29 00 25	86	29 01 66	87
26 26 02	100	27 01 12	72	27 07 54	67	28 00 60	74	29 00 26	83	29 01 68	87
26 26 04	100	27 01 14	72	27 07 56	67	28 00 64	74	29 00 27*	86	29 01 70	87
26 26 06	100	27 01 16	72	27 07 58	67	28 00 70	74	29 00 28	83	29 01 72	87
26 26 08	100	27 01 18	72	27 07 60	67	28 00 74	74	29 00 29	83	29 01 74	87
26 26 09	100	27 01 19	72	27 07 62	67	28 00 80	74	29 00 30	83	29 01 76	87
26 26 10	100	27 01 20	72	27 07 78	67	28 00 84	74	29 00 31	86	29 01 78	87
26 26 16	100	27 01 21	72	27 07 80	67	28 00 90	74	29 00 32	83	29 01 80	87
26 26 18	100	27 01 22	72	27 07 82	67	28 00 94	74	29 00 33	86	29 01 82	87
26 26 20	100	27 01 23	72	27 07 84	67	28 01 00	75	29 00 34	83	29 01 88	87
26 26 22	100	27 01 24	72	27 07 87	67	28 01 04	75	29 00 35	86	29 01 90	87
26 26 28	100	27 01 26	72	27 07 88	67	28 01 10	75	29 00 36	83	29 01 92	87
26 26 30	100	27 01 28	72	27 07 90	67	28 01 14	75	29 00 37	86	29 01 96	87
26 26 32	100	27 01 30	72	27 07 92	67	28 01 20	75	29 00 38	83	29 01 98	87
26 26 36	100	27 01 31	72	27 07 94	67	28 01 24	75	29 00 39*	86	29 02 00	87
26 26 38	100	27 01 32	72	27 07 95	67	28 01 28	75	29 00 40	83	29 02 04	87
26 26 40	100	27 01 34	72	27 07 96	67	28 01 32	75	29 00 41	83	29 02 06	87
26 26 42	100	27 01 35	72	27 07 97	67	28 01 36	75	29 00 42	86	29 02 08	87
26 26 46	100	27 01 36	72	27 07 98	67	28 01 40	75	29 00 43	83	29 02 14	87
26 27 00	101	27 01 37	72	27 07 99	67	28 01 50	75	29 00 44	86	29 02 16	87
26 27 02	101	27 01 40	70	27 08 00	66	28 01 54	75	29 00 45	83	29 02 18	87
26 27 04	101	27 01 41	70	27 08 01	66	28 01 58	75	29 00 46	83	29 02 22	87
26 27 10	101	27 01 42	70	27 08 02	66	28 01 62	75	29 00 47	83	29 02 24	87
27 00 14	66	27 01 43	70	27 08 03	66	28 01 66	75	29 00 48	83	29 02 26	87
27 00 15	66	27 01 44	70	27 08 04	66	28 01 70	75	29 00 49	86	29 02 30	87
27 00 16	66	27 01 46	70	27 08 05	66	28 01 80	76	29 00 50	86	29 02 32	87
27 00 21	66	27 01 48	70	27 08 06	66	28 01 82	76	29 00 51	86	29 02 34	87
27 00 22	66	27 01 49	70	27 08 07	66	28 01 84	76	29 00 52	86	29 02 36	87
27 00 27	66	27 01 50	70	27 08 08	66	28 01 86	76	29 00 53	86	29 02 38	87
27 00 28	66	27 01 52	70	27 08 10	66	28 01 88	76	29 00 54	86	29 02 40	87
27 00 29	66	27 01 54	70	27 08 10	67	28 01 90	76	29 00 55	86	29 02 46	87
27 00 30	66	27 01 56	70	27 08 11	66	28 01 92	76	29 00 56	86	29 02 46	83
27 00 31	66	27 01 58	70	27 08 11	67	28 01 94	76	29 00 57	86	29 02 50	84
27 00 32	66	27 01 59	70	27 08 12	66	28 01 96	76	29 00 58	86	29 02 52	84
27 00 33	66	27 01 60	70	27 08 13	66	28 01 98	76	29 00 59	86	29 02 54	84
27 00 34	66	27 01 64	70	27 08 13	67	28 02 00	76	29 00 60	86	29 02 56	84

Art. No.	Page	Art. No.	Page	Art. No.	Page	Art. No.	Page	Art. No.	Page	Art. No.	Page
29 02 58	84	29 04 98	85	29 07 21	81	29 08 86	92	29 10 60	88	29 14 52	90
29 02 60	84	29 05 16	85	29 07 22	81	29 08 88	92	29 10 62	88	29 14 54	90
29 02 62	84	29 05 18	85	29 07 23	81	29 08 90	92	29 10 64	88	29 14 56	90
29 02 64	84	29 05 20	85	29 07 29	79	29 08 92	92	29 10 66	88	29 14 58	90
29 02 66	84	29 05 22	85	29 07 30	79	29 08 94	92	29 10 68	88	29 14 60	90
29 02 68	84	29 06 17	79	29 07 31	79	29 08 96	92	29 10 70	88	29 14 62	90
29 02 70	84	29 06 18	79	29 07 32	79	29 08 98	92	29 10 72	88	29 14 64	90
29 02 72	84	29 06 19	79	29 07 34	79	29 08 99	92	29 10 74	88	29 15 20	90
29 02 76	84	29 06 20	79	29 07 35	79	29 09 00	82	29 10 76	88	29 15 21	89
29 02 78	84	29 06 21	79	29 07 36	79	29 09 02	82	29 10 78	88	29 15 22	90
29 02 80	84	29 06 22	79	29 07 37	79	29 09 04	82	29 10 80	88	29 15 23	89
29 02 82	84	29 06 23	79	29 07 38	79	29 09 06	82	29 10 82	88	29 15 24	90
29 02 84	84	29 06 24	79	29 07 39	79	29 09 08	82	29 10 84	88	29 15 25	89
29 02 86	84	29 06 25	79	29 07 40	79	29 09 10	82	29 10 90	89	29 15 26	90
29 02 88	84	29 06 26	79	29 07 42	79	29 09 12	82	29 10 92	89	29 15 27	89
29 02 90	84	29 06 27	79	29 07 43	79	29 09 14	82	29 10 96	89	29 15 28	90
29 02 92	84	29 06 28	79	29 07 44	79	29 09 16	82	29 10 98	89	29 15 29	89
29 02 94	84	29 06 30	79	29 07 46	79	29 09 18	82	29 11 00	89	29 15 30	90
29 02 96	84	29 06 32	79	29 07 48	79	29 09 20	82	29 11 02	89	29 15 31	89
29 03 00	84	29 06 34	79	29 07 50	79	29 09 22	82	29 11 04	89	29 15 32	90
29 03 02	84	29 06 35	79	29 07 51	79	29 09 24	82	29 11 06	89	29 15 33	89
29 03 04	84	29 06 36	79	29 07 52	79	29 09 26	82	29 11 08	89	29 15 34	90
29 03 06	84	29 06 37	79	29 07 54	79	29 09 28	82	29 11 10	89	29 15 35	89
29 03 08	84	29 06 38	79	29 07 56	79	29 09 30	82	29 11 12	89	29 15 36	90
29 03 10	84	29 06 40	79	29 07 70	80	29 09 32	82	29 11 14	89	29 15 37	89
29 03 12	84	29 06 42	79	29 07 71	80	29 09 34	82	29 11 20	89	29 15 38	90
29 03 16	84	29 06 44	79	29 07 73	80	29 09 36	82	29 11 24	89	29 15 39	89
29 03 18	84	29 06 46	81	29 07 75	80	29 09 38	82	29 11 26	89	29 15 40	90
29 03 20	84	29 06 48	81	29 07 76	80	29 09 40	82	29 11 28	89	29 15 41	89
29 04 04	85	29 06 50	81	29 07 77	80	29 09 42	82	29 11 30	89	29 15 42	90
29 04 06	85	29 06 52	81	29 07 78	80	29 09 44	82	29 11 32	89	29 15 43	89
29 04 08*	85	29 06 54	81	29 07 80	80	29 09 46	82	29 11 34	89	29 15 44	90
29 04 10*	85	29 06 56	81	29 07 82	80	29 09 48	82	29 13 30	90	29 15 45	89
29 04 12	85	29 06 58	81	29 07 84	80	29 09 50	82	29 13 32	90	29 15 46	90
29 04 14	85	29 06 60	81	29 07 86	80	29 09 52	82	29 13 34	90	29 15 47	89
29 04 16	85	29 06 62	81	29 07 88	80	29 09 54	82	29 13 36	90	29 15 48	90
29 04 18	85	29 06 63	81	29 08 00	92	29 09 56	82	29 13 38	90	29 15 49	89
29 04 20	85	29 06 64	81	29 08 02	92	29 09 58	82	29 13 40	90	29 15 50	90
29 04 22*	85	29 06 66	81	29 08 04	92	29 09 60	82	29 13 42	90	29 15 51	89
29 04 24	85	29 06 68	81	29 08 06	92	29 09 62	82	29 13 44	90	29 15 52	90
29 04 26	85	29 06 70	81	29 08 10	92	29 09 64	82	29 13 48	90	29 15 53	89
29 04 28	85	29 06 72	81	29 08 12	92	29 09 66	82	29 13 50	90	29 15 54	90
29 04 30	85	29 06 74	81	29 08 14	92	29 09 68	82	29 13 52	90	29 15 55	89
29 04 32*	85	29 06 76	81	29 08 16	92	29 09 70	82	29 13 54	90	29 20 10	91
29 04 34	85	29 06 78	81	29 08 18	92	29 09 72	82	29 13 56	90	29 20 12	91
29 04 36	85	29 06 80	81	29 08 20	92	29 09 74	82	29 13 58	90	29 20 14	91
29 04 38	85	29 06 82	81	29 08 22	92	29 09 76	82	29 13 60	90	29 20 16	91
29 04 40	85	29 06 83	81	29 08 24	92	29 09 78	82	29 13 70	91	29 20 18	91
29 04 42	85	29 06 84	81	29 08 26	92	29 09 80	82	29 13 72	91	29 20 20	91
29 04 44	85	29 06 86	81	29 08 30	92	29 09 82	82	29 13 74	91	29 20 22	91
29 04 46	85	29 06 88	81	29 08 32	92	29 09 84	82	29 13 76	91	29 20 24	91
29 04 48	85	29 06 90	81	29 08 34	92	29 09 85	82	29 13 78	91	29 20 26	91
29 04 50	85	29 06 91	81	29 08 36	92	29 09 86	82	29 13 80	91	29 20 28	91
29 04 52	85	29 06 92	81	29 08 40	92	29 09 88	82	29 13 82	91	29 20 30	91
29 04 54	85	29 06 94	81	29 08 42	92	29 09 90	82	29 13 84	91	29 20 32	91
29 04 56	85	29 06 96	81	29 08 44	92	29 09 91	82	29 13 86	91	29 20 40	91
29 04 58	85	29 06 98	81	29 08 46	92	29 09 92	82	29 13 88	91	29 20 50	91
29 04 60	85	29 06 99	81	29 08 48	92	29 09 94	82	29 13 90	91	29 20 52	91
29 04 62	85	29 07 00	81	29 08 50	92	29 09 96	82	29 13 92	91	29 20 54	91
29 04 64	85	29 07 01	81	29 08 52	92	29 09 98	82	29 13 94	91	29 20 56	91
29 04 66	85	29 07 02	81	29 08 54	92	29 09 99	82	29 13 96	91	29 20 58	91
29 04 68	85	29 07 04	81	29 08 56	92	29 10 00	82	29 13 98	91	29 20 60	91
29 04 70	85	29 07 06	81	29 08 58	92	29 10 02	82	29 14 40	90	29 20 62	91
29 04 72	85	29 07 07	81	29 08 60	92	29 10 50	88	29 14 42	90	29 20 64	91
29 04 74	85	29 07 08	81	29 08 62	92	29 10 52	88	29 14 44	90	29 25 60	92
29 04 76	85	29 07 10	81	29 08 64	92	29 10 54	88	29 14 46	90	29 25 62	92
29 04 78	85	29 07 11	81	29 08 66	92	29 10 56	88	29 14 48	90	29 25 64	92
29 04 80	85	29 07 12	81	29 08 68	92	29 10 58	88	29 14 50	90	29 25 66	92
29 04 82	85	29 07 13	81	29 08 70	92						
29 04 84	85	29 07 14	81	29 08 72	92						
29 04 86	85	29 07 15	81	29 08 74	92						
29 04 88	85	29 07 16	81	29 08 76	92						
29 04 90	85	29 07 17	81	29 08 78	92						
29 04 92	85	29 07 18	81	29 08 80	92						
29 04 94	85	29 07 19	81	29 08 82	92						
29 04 96	85	29 07 20	81	29 08 84	92						



...Technology that connects

<u>Art. No.</u>	<u>Page</u>	<u>Art. No.</u>	<u>Page</u>	<u>Art. No.</u>	<u>Page</u>	<u>Art. No.</u>	<u>Page</u>	<u>Art. No.</u>	<u>Page</u>	<u>Art. No.</u>	<u>Page</u>
29 25 68	92	29 34 28	94	29 36 74	95						
29 25 70	92	29 34 30	94	29 36 76	95						
29 25 72	92	29 34 32	94	29 36 78	95						
29 25 74	92	29 34 34	94	29 36 80	95						
29 25 80	92	29 34 36	94	29 36 82	95						
29 25 82	92	29 34 38	94	29 36 84	95						
29 25 84	92	29 34 40	94	29 36 86	95						
29 25 86	92	29 34 42	94	29 36 88	95						
29 25 88	92	29 34 44	94	29 36 90	95						
29 25 90	92	29 34 46	94	29 36 92	95						
29 25 92	92	29 34 48	94	29 39 10	96						
29 25 94	92	29 34 50	94	29 39 12	96						
29 25 96	92	29 34 52	94	29 39 14	96						
29 25 98	92	29 34 54	94	29 39 16	96						
29 26 00	92	29 34 56	94	29 39 18	96						
29 27 70	93	29 34 58	94	29 39 20	96						
29 27 72	93	29 35 42	93	29 39 22	96						
29 27 74	93	29 35 44	93	29 39 24	96						
29 27 76	93	29 35 46	93	29 39 28	96						
29 27 78	93	29 35 48	93	29 39 30	96						
29 27 80	93	29 35 50	93	29 39 32	96						
29 27 82	93	29 35 52	93	29 39 34	96						
29 27 84	93	29 35 54	93	29 39 36	96						
29 27 86	93	29 35 56	93	29 39 38	96						
29 27 88	93	29 35 58	93	29 39 40	96						
29 27 90	93	29 35 70	95	29 39 42	96						
29 27 92	93	29 35 72	95	29 39 44	96						
29 27 94	93	29 35 74	95	29 39 46	96						
29 27 96	93	29 35 76	95	29 39 48	96						
29 27 98	93	29 35 78	95	29 39 50	96						
29 28 00	93	29 35 80	95	29 39 52	96						
29 28 02	93	29 35 82	95	29 39 54	96						
29 28 04	93	29 35 84	95	29 39 56	96						
29 28 06	93	29 35 86	95	29 39 60	96						
29 28 08	93	29 35 88	95	29 39 62	96						
29 28 10	93	29 35 90	95	29 39 64	96						
29 28 12	93	29 35 92	95	29 39 66	96						
29 28 14	93	29 35 94	95	29 39 68	96						
29 28 16	93	29 35 96	95	29 39 70	96						
29 28 18	93	29 35 98	95	29 39 72	96						
29 28 20	93	29 36 00	95	29 39 74	96						
29 28 22	93	29 36 02	95	29 39 76	96						
29 28 24	93	29 36 04	95	29 39 78	96						
29 33 00	96	29 36 06	95	30 03 20	17						
29 33 02	96	29 36 08	95								
29 33 04	96	29 36 10	95								
29 33 06	96	29 36 12	95								
29 33 08	96	29 36 14	95								
29 33 10	96	29 36 16	95								
29 33 12	96	29 36 18	95								
29 33 14	96	29 36 20	95								
29 33 16	96	29 36 22	95								
29 33 18	96	29 36 24	95								
29 33 20	96	29 36 26	95								
29 33 22	96	29 36 28	95								
29 33 24	96	29 36 30	95								
29 33 26	96	29 36 32	95								
29 33 28	96	29 36 34	95								
29 33 30	96	29 36 36	95								
29 33 32	96	29 36 38	95								
29 33 34	96	29 36 40	95								
29 33 36	96	29 36 42	95								
29 34 00	94	29 36 44	95								
29 34 02	94	29 36 46	95								
29 34 04	94	29 36 48	95								
29 34 06	94	29 36 50	95								
29 34 08	94	29 36 52	95								
29 34 10	94	29 36 54	95								
29 34 12	94	29 36 56	95								
29 34 14	94	29 36 58	95								
29 34 16	94	29 36 60	95								
29 34 18	94	29 36 62	95								
29 34 20	94	29 36 66	95								
29 34 22	94	29 36 68	95								
29 34 24	94	29 36 70	95								
29 34 26	94	29 36 72	95								

The HAUPA Product program

The assortment of HAUPA encloses the product lines:

Around the cable

Working under tension

Basis program

The partial catalogue "Around the cable" encloses all tools and materials which you need for the processing of any kind of cables.

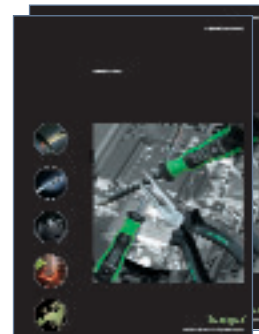
Whether cutting, stripping off or crimping! Here you find everything what you need for it. From the basic equipment up to special tools for the professional application.



The partial catalogue "Working under tension" encloses all 1000 V of isolated safety tools as well as isolating protection equipment in accordance with EN 60900.



The partial catalogue "basis program" encloses all state sort tools, begun from screwdrivers, pliers, hammer, saws, socket wrenches, drill and fly tools as far as measuring systems and laser systems.



haupa[®]
...Technology that connects

Germany

HAUPA GmbH & Co. KG

Königstraße 165-169

42853 Remscheid

Phone: +49 (0)2191 8418-0

Fax: +49 (0)2191 8418840

E-Mail: sales@haupa.com

www.haupa.com

Austria

HAUPA

Werkzeuge Hans-Udo Paas

Bayernstraße 436

5072 Siezenheim

Phone: +662 854717

Fax: +662 854632

E-Mail: haupa.austria@haupa.com

Spain

HAUPA Ibérica S. L.

C/. Joanot Martorell, 36

08850 Gava/Barcelona

Phone: 902 313135

Fax: 902 414145

E-Mail: haupa.iberica@haupa.com



HAUPA-Group
www.haupa.com



Certified acc. to
DIN EN ISO 9002

haupa[®]

...Technology that connects