

Main catalogue 2014





HAUPA – System supplier to specialist electrical wholesalers

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



homepage



QR code:

This catalogue contains QR codes which ensure more transparent communication of additional information via video or similar media content.

It is unwise to pay too much, but it is unwise to pay too little. When you pay too much, you lose a little money; that is all. When you pay too little you sometimes lose everything. Because the thing you bought was incapable of doing the thing you bought it to do. The common law of business balance prohibits paying a little and getting a lot. It cannot be done. If you deal with the lowest bidder, it is well to add something for the risk you run and if you do that, you will have enough to pay for something better.

John Ruskin
English social reformer 1819 - 1900

 HAUPA-Group
www.haup.com



Quality

HAUPA has been certified according to DIN EN ISO 9000 since 1996 (2003 DIN EN ISO 9001).

In order to incorporate a true quality standard the quality management department of HAUPA decided at a very early stage to apply for ISO 9000 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.

DIN EN ISO 9001:2008 certificate



german



english



spanish



polish



hungarian



netherlands



russian

HAUPA Product Certification:



1000V IEC 60900:2004



GOST



UL



CSA



VDE



VPA



Germanischer Lloyd



DNV



RoHS



Brunel

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Cutting



External Ø of wires and cables (average)

No. of wires Cross-section in mm ²	External-Ø NYM mm	External-Ø NYY (ca.) mm	External-Ø NYCY (ca.) mm	External-Ø H05RR-F (ca.) mm	External-Ø H07RN-F (ca.) mm
2 x 1,5	8,4 - 8,9	11	12	10,5	11,5
2 x 2,5	9,6 - 11	13	13	12,5	13,5
2 x 4	11 - 12,5	14	15	11	12,5
2 x 6	12 - 13,5	15	16	13	14,5
2 x 10	15 - 17	17	17,5	-	16
2 x 16	17 - 20	19	20	-	20
2 x 25	21 - 24	23	-	-	25,5
2 x 35	23,5 - 27,5	-	-	-	29
3 x 1,5	8,8 - 10,5	12	13	-	-
3 x 2,5	10 - 11,5	13	14	-	-
3 x 4	11,5 - 13	15	15	-	-
3 x 6	12 - 15	16	17	-	-
3 x 10	16 - 18	19	18,5	-	-
3 x 16	18,5 - 22	20	20,5	-	-
3 x 25	22,5 - 26	24	26,5	-	-
3 x 35	25 - 29,5	23	28	-	-
3 x 35/16	-	26	25	-	-
3 x 50/25	-	30	32	-	-
3 x 70/35	-	31	32	-	-
3 x 95/50	-	36	37	-	-
3 x 120/70	-	39	39	-	-
3 x 150/70	-	43	43	-	-
4 x 1,5	9,5 - 11	13	14	12,5	13,5
4 x 2,5	11 - 12,5	14	15	14	15,5
4 x 4	12,5 - 14,5	16	16	-	18
4 x 6	14,5 - 16,5	17	18	-	22
4 x 10	17 - 19,5	19	20,5	-	28
4 x 16	20,5 - 23,5	22	24	-	32
4 x 25	25 - 28,5	27	29	-	37
4 x 35	27,5 - 32	26	31	-	42
4 x 50	-	35	34	-	48
4 x 70	-	40	37	-	54
4 x 95	-	45	42	-	60
4 x 120	-	50	47	-	-
5 x 1,5	9,9 - 12	13	15	13,5	15
5 x 2,5	11,5 - 13,5	14	17	15,5	17
5 x 4	14 - 16,5	16	18	-	19
5 x 6	15,5 - 18	18	20	-	24
5 x 10	18,5 - 21,5	21	-	-	30
5 x 16	22,5 - 26	24	-	35	-
5 x 25	27,5 - 31,5	-	-	-	-
5 x 35	30,5 - 35,5	-	-	-	-

Cutting diameters of cable cutters Profi Line



Art.	200111	200112	200113	200177	200114	200116	200115	200119	200179	200124	200126	200131	200151	200089	200183
Ø	page 8	page 8	page 8	page 9	page 9	page 9	page 9	page 9	page 9	page 10	page 10	page 10	page 10	page 8	page 8
	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al
	185 mm ²	400 mm ²	240 mm ²	300 mm ²	400 mm ²	50 mm ²	1000 mm ²	1400 mm ²	120 mm ²	185 mm ²	240 mm ²	550 mm ²	185 mm ²	400 mm ²	400 mm ²
	34 mm Ø	52 mm Ø	35 mm Ø	45 mm Ø	52 mm Ø	62 mm Ø	80 mm Ø	100 mm Ø	25 mm Ø	34 mm Ø	35 mm Ø	55 mm Ø	32 mm Ø	52 mm Ø	52 mm Ø
	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al
	240 mm ²	400 mm ²	240 mm ²	240 mm ²	480 mm ²	750 mm ²	1000 mm ²	1400 mm ²	120 mm ²	185 mm ²	240 mm ²	550 mm ²	185 mm ²	400 mm ²	400 mm ²
	34 mm Ø	52 mm Ø	35 mm Ø	45 mm Ø	52 mm Ø	62 mm Ø	80 mm Ø	100 mm Ø	25 mm Ø	34 mm Ø	35 mm Ø	55 mm Ø	32 mm Ø	52 mm Ø	52 mm Ø
	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al
	240 mm ²	450 mm ²	300 mm ²	300 mm ²	500 mm ²	300 mm ²	750 mm ²	1000 mm ²	1400 mm ²	120 mm ²	240 mm ²	300 mm ²	550 mm ²	240 mm ²	450 mm ²
	34 mm Ø	52 mm Ø	35 mm Ø	45 mm Ø	52 mm Ø	75 mm Ø	62 mm Ø	80 mm Ø	100 mm Ø	25 mm Ø	34 mm Ø	35 mm Ø	55 mm Ø	32 mm Ø	52 mm Ø

Cutting pistols

Cutting pistol for PVC pipes

for PVC pipes and all materials made from plastics and rubber, exchangeable blade, knife made from tool steel hardened in oil, retractable by the press of a button.

- little effort through special cutting geometry
- optimal transmission
- effortless work through ergonomically shaped handle
- incremental knife feed



Art. no.	Ø	kg	PU
200214	35	0,235	1
200215	spare blades	0,040	1

Cutting pistol for PVC pipes

for PVC pipes and all materials made from plastics and rubber, exchangeable blade, knife made from tool steel hardened in oil, retractable by the press of a button.

- little effort through special cutting geometry
- optimal transmission
- effortless work through ergonomically shaped handle
- incremental knife feed



Art. no.	Ø	kg	PU
200216	42	0,270	1
200217	spare blades	0,055	1

Cable cutters

Kevlar cutter

to cut Kevlar fibre on optical fibre cables. Precision cut with cogs prevents the fibres from slipping and ensures a clean cut.

- Micro-meshing
- Riveted joint
- Specially coated blade



Art. no.	TL	kg	PU
200153	160	0,085	1

Allround soft-grip scissor

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

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



Art. no.	TL	Ø	kg	PU
200155	140	25	0,086	1

Cable cutters

Allround soft-grip scissor

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

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



Art. no.	TL	Ø	kg	PU
200185	150	50	0,083	1

Electricians' scissor, straight

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

- with stripping device
- micro-toothing
- stainless



Art. no.	TL	kg	PU
200062	130	0,096	1

Electricians' scissor, angled

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

- with stripping device
- micro-toothing
- stainless



Art. no.	TL	kg	PU
200064	130	0,094	1

Electricians' scissor

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



Art. no.	TL	kg	PU
200066	130	0,093	1

Combination scissor

stainless special steel, shock-proof plastic handles, one cutting edge slightly serrated, for cutting of cable, thin plate, wire, leather, cardboard, plastic, Al, Ms and Cu foils.

- Opening spring and locking blade
- Jam protection
- Adjustable screw joint



Art. no.	TL	kg	PU
200072	190	0,110	1

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Cable cutters

Cable cutter

For cutting Cu/Al cables.

- Data, telephone and control cable, maximum Ø 25 mm
- Cu single wire, maximum 16 mm²
- Cu fine wire, maximum 70 mm²
- Cu multi-wire, maximum 25 mm²



Art. no.	TL	Ø	mm ²	kg	PU
200105	215	25	70	0,281	1

Cable cutter with a snap

- One-handed cable cutters for fine wire cables only
- Two-stage adjustment mechanism (patent)
- Low force required
- Laser-cut components
- CNC-ground cutting
- Inductively hardened blades
- Adjustable screw joint
- Telephone cable maximum Ø 26.1 mm
- Cu fine wire cable, maximum Ø 18.9 mm = 120 mm²



Art. no.	TL	Ø	mm ²	kg	PU
201000	230	18,9	120	0,514	1

Cable cutter

- For cutting Cu/Al cables, fine and multi-wiring
- Chrome vanadium steel, dip-insulated handles
- Insulating function in upper head area
- Cable measuring function thanks to the 180 degree crossover of the legs
- Not for solid conductors

Art. no. 201085 (Art. no. 201087)

- Data, telephone and control cable, maximum Ø 8 mm (Ø 12 mm)
- Cu single wire, maximum 16 mm² (16 mm)
- Cu fine wire, maximum 16 mm² (35 mm²)
- Cu multi-wire, maximum 16 mm² (25 mm²)
- Al single wire, maximum 16 mm² (25 mm²)
- Al multi-wire, maximum Ø 8 mm = 16 mm² (25 mm²)



Art. no.	TL	Ø	mm ²	kg	PU
201085	160	8	16	0,177	1
201087	200	12	35	0,289	1

Cable cutter

- For cutting Cu/Al cables, fine and multi-wiring
- Chrome vanadium steel, plug-on handles
- Insulating function in upper head area
- Cable measuring function thanks to the 180 degree crossover of the legs
- Not for solid conductors

Art. no. 201086 (Art. no. 201088)

- Data, telephone and control cable, maximum Ø 8 mm (Ø 12 mm)
- Cu single wire, maximum 16 mm² (16 mm)
- Cu fine wire, maximum 16 mm² (35 mm²)
- Cu multi-wire, maximum 16 mm² (25 mm²)
- Al single wire, maximum 16 mm² (25 mm²)
- Al multi-wire, maximum Ø 8 mm = 16 mm² (25 mm²)



Art. no.	TL	Ø	mm ²	kg	PU
201086	180	8	16	0,216	1
201088	240	12	35	0,361	1

Cable cutters with spring joint

- For cutting Cu/Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Chrome vanadium steel
- Self-opening joint spring
- Enormous cutting power with reduced force expenditure
- Not for solid conductors



Art. no.	TL	Ø	mm ²	kg	PU
200086	170	10	25	0,266	1
200088	230	15	70	0,475	1

Cable cutter

- For cutting Cu/Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Low force required thanks to best blade geometry and translation ratios
- Vanadium electro-steel, forged, oil-hardened
- Aluminium legs
- Hardened blades with precision grinding
- Adjustable screw joint



Art. no.	TL	Ø	mm ²	kg	PU
200087	500	27	150	1,026	1

Cable cutters

- For cutting Cu/Al cables, fine and multi-wiring
- Surface-ground, rust-protected blades made from annealed chrome vanadium steel
- Impact-proof coated, hardened handle tubes, sickle-shaped rounded blades
- Highest stability with the lowest own weight



Art. no.	TL	Ø	mm ²	kg	PU
200073	300	20	120	0,620	1
200073/MK			cutting head	0,190	1
200095	530	35	185	1,652	1
200095/MK			cutting head	0,610	1
200099	780	50	400	3,380	1
200099/MK			cutting head	1,202	1

Cable cutters

Cable cutter

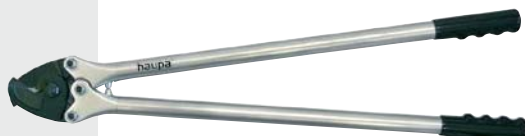
- For cutting Cu/Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Hardened blades with precision grinding
- Dual lever ensures easy cutting
- Adjustable screw joint
- Blade head in chrome vanadium steel, forged and oil-hardened



Art. no.	TL	Ø	mm ²	kg	PU
200076	600	24	120	0,940	1
200102			cutting head	0,349	1

Cable cutters „Super light“

- For cutting Cu and Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Extremely light thanks to full aluminium handles
- Dual lever ensures easy cutting
- Hardened blades with precision grinding
- Adjustable screw joint
- Blade head in chrome vanadium steel, forged and oil-hardened



Art. no.	TL	Ø	mm ²	kg	PU
200197	700	to 400 mm ²	24	1,839	1

Cable cutter

- For cutting Cu and Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Dual lever ensures easy cutting
- Hardened blades with precision grinding
- Adjustable screw joint
- Blade head in chrome vanadium steel, forged and oil-hardened



Art. no.	TL	Ø	mm ²	kg	PU
200100	980	40	400	3,920	1
200104			cutting head	0,606	1

Bolt cutter

- Cuts soft and hard wires, piano wire
- Cuts bolts, nails, rivets etc. up to Ø 3.6 mm
- Particularly high cutting performance with low force required thanks to extremely effective joint construction
- Blades are also inductively hardened, blade hardness approximately 64 HRC
- Chrome vanadium high-performance steel, forged, oil-hardened



Art. no.	TL	Ø	kg	PU
200170	200	3,6	0,111	1

Wire cutters

Wire cutter

- Cu and Al cables 10 mm²
- ACSR Ø 6 mm
- solid Ø 4 mm
- also suitable for cable and round steel
- suitable for separating open wires with pull relief wire
- with opening spring and latch
- special cutting geometry prevents the wire from unsplicing



Art. no.	TL	Ø	mm ²	kg	PU
200173	180	6	10	0,306	1

Wire cutter

- Cu and Al cable 95 mm²
- ACSR Ø 10 mm
- solid Ø 6 mm
- also suitable for cables and round bars
- special cutting geometry prevents the wire from unsplicing
- suitable for separating open wires with pull relief wire
- exchangeable milling head



Art. no.	TL	Ø	mm ²	kg	PU
200175	180	10	95	0,752	1

Wire cutter

- Cu and Al cable 150 mm²
- ACSR Ø 14 mm
- solid Ø 9 mm
- also suitable for cables and round bars
- special cutting geometry prevents the wire from unsplicing
- suitable for separating open wires with pull relief wire
- angled cutting tip allows you to cut individual cables
- optimal transmission for excellent cutting performance
- exchangeable milling head



Art. no.	TL	Ø	mm ²	kg	PU
200181	700	14	150	2,390	1

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INFO

Cable cutters

Benefits:

- Cutting without crushing
- Small and large cable cross-sections can be handled without need for strength
- Mature technology
- Pin-mounted engine components
- Special cutting geometry
- Optimised eccentric drive
- Permanently forged cogs
- High lifetimes
- Low maintenance requirements

Hand cable cutter

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



Art. no. 200089

Cutting range:	Cu/Al wire multi wiring	185	32
	Cu/Al wire sector format	185	32
	Cu wire fine wiring	240	32
	Cu wire fine wiring or telecommunication cable		32
Length:			230
Weight:			0,615

Hand cable cutter

ratchet action type, with spare blade, for copper and alu cable to 52 mm Ø



Art. no. 200183

Cutting range:	Cu/Al wire multi wiring	400	52
	Cu/Al wire sector format	400	52
	Cu wire fine wiring	450	52
	Cu wire fine wiring or telecommunication cable		52
Length:			280
Weight:			0,914

Cable cutters

Cable cutter

Handy one-hand device with smooth-running and robust drive technology for everyday use up to 34 mm Ø, all moveable parts made from hardened steel



Art. no. 200111

Cutting range:	Cu/Al wire multi wiring	185	34
	Cu/Al wire sector format	240	34
	Cu wire fine wiring	240	34
	Cu wire fine wiring or telecommunication cable		34
Length:			250
Weight:			0,790

Cable cutter

Handy one- and two-hand tool with smooth-running and robust drive technology for everyday use up to 52 mm Ø, all moving parts made from hardened steel



Art. no. 200112

Cutting range:	Cu/Al wire multi wiring	400	52
	Cu/Al wire sector format	400	52
	Cu wire fine wiring	450	52
	Cu wire fine wiring or telecommunication cable		52
Length:			320
Weight:			1,122

Cable cutters with eccentric drive

Cable cutter

Particularly smooth-running cable cutter with needle bearing eccentric drive for everyday use up to 35 mm Ø. Extremely durable tool



Art. no. 200113

Cutting range:	Cu/Al wire multi wiring	240	35
	Cu/Al wire sector format	240	35
	Cu wire fine wiring	300	35
	Cu wire fine wiring or telecommunication cable		35
Length:			250
Weight:			0,976

Cable cutters with eccentric drive

Cable cutter

Particularly smooth-running cable cutter with needle bearing eccentric drive for everyday use up to 45 mm Ø. Extremely durable tool



Art. no.
200177

Cutting range:	Cu/Al wire multi wiring	300	45
	Cu/Al wire sector format	240	45
	Cu wire fine wiring	300	45
	Cu wire fine wiring or telecommunication cable		45
Length:			260
Weight:			0,900

Cable cutter

Particularly smooth-running cable cutter with needle bearing eccentric drive for everyday use up to 52 mm Ø. Extremely durable tool



Art. no.
200114

Cutting range:	Cu/Al wire multi wiring	400	52
	Cu/Al wire sector format	480	52
	Cu wire fine wiring	500	52
	Cu wire fine wiring or telecommunication cable		52
Length:			325
Weight:			1,340

Cable cutter

Almost maintenance-free two-hand cable cutter up to 62 mm Ø, smooth-running through needle-bearing eccentric drive, great range of application, comes with cog comb to clean cogs (s. art. 200119)



Art. no.
200115

Cutting range:	Cu/Al wire multi wiring	750	62
	Cu/Al wire sector format	750	62
	Cu wire fine wiring	750	62
	Cu wire fine wiring or telecommunication cable		62
Length:			410
Weight:			2,224

Cable cutter

Almost maintenance-free quality tool up to 80 mm Ø. Smooth-running due to needle-bearing eccentric drive, also suitable for cables with steel plate jacket and soft steel wire reinforcement, ST 52. Comes with cog comb to clean cogs, integrated in the handle



Art. no.
200119

Cutting range:	Cu/Al wire multi wiring	1000	80
	Cu/Al wire sector format	1000	80
	Cu wire fine wiring	1000	80
	Cu wire fine wiring or telecommunication cable		80
Length:			610
Weight:			3,322

Cable cutter

Almost maintenance-free quality tool up to 100 mm Ø. Smooth-running due to needle-bearing eccentric drive, also suitable for cables with steel plate jacket and soft steel wire reinforcement, ST 52. Comes with cog comb to clean cogs, integrated in the handle



Art. no.
200179

Cutting range:	Cu/Al wire multi wiring	1400	100
	Cu/Al wire sector format	1400	100
	Cu wire fine wiring	1400	100
	Cu wire fine wiring or telecommunication cable		100
Length:			610
Weight:			3,322

Special cable cutters

Special cable cutter

for data and telephone cables up to 75 mm Ø, high cutting quality through special cutting geometry, smooth-running due to needle-bearing drive mechanics, not suitable for steel wire and very wiry conductors of power supply (EVU etc.)



Art. no.
200116

Cutting range:	Cu wire fine wiring	300	75
	Cu wire fine wiring or telecommunication cable		75
Length:			370
Weight:			1,585

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Special cable cutters

Special cable cutter

- Cable cutter for exchangeable cutting segments
- Cuts crush-free copper and aluminium cables up to a diameter of 50 mm
- Optimum blade geometry for high-performing offset translation
- Patented structure for exchangeable cutting segments
- For steel encased/steel armoured wires, cables and hoses
- 12/14 mm wide drive resists even the greatest of loads
- With tooth comb for cleaning teeth
- ACSR

Complete set:

- Universal cable cutter
- 1 pair of cutting segments S1 (Art. 200178/S1)
- Cleaner
- ACSR



Video 200178



Art. no.	TL	Ø	mm ²	fine wiring mm ²	kg	PU
200178	230	50	300	240	1,140	1

Further accessories for art. no. 200178



Application: AL/CU: Cross-section 300 mm², Ø 50 mm
Flexible steel cables: Cross-section 95 mm², Ø 14 mm
Niro cables Ø 8 mm, 19/1
ACSR DIN 48 204: Cross-section 150/25 mm², Ø 20 mm, 7/2.1 mm
Steel armoured tubing: Ø 50 mm

Art. no.	Ø	mm ²	kg	PU
200178/S1	50	300	0,100	1



Application: AL/CU: Cross-section 150 mm, Ø 30 mm
Flexible steel cables: Cross-section 70 mm, Ø 12 mm
Supporting cable: Cross-section 70/300 mm², Ø 12/30 mm, Type 8
ACSR DIN 48 204: Cross-section 70/12 mm², Ø 11.7 mm, 7/1.44 mm

Art. no.	Ø	mm ²	kg	PU
200178/B	30	150	0,100	1



Application: AL/CU: Cross-section: 350 mm, Ø 50 mm
Clean cut and low handgrip with large cross sections
suitable for highly flexible conductors
not for steel

Art. no.	Ø	mm ²	kg	PU
200178/C	50	350	0,100	1



Application: AL/CU: Cross-section 350 mm, Ø 50 mm
Flexible steel cables: Cross-section 95 mm, Ø 16 mm
Cable with soft steel sleeve: Cross-section 240 mm², Ø 50 mm
Clean cut and normal handgrip

Art. no.	Ø	mm ²	kg	PU
200178/S	50	350	0,100	1



Application: AL/CU: Cross-section 200 mm², Ø 50 mm
Flexible steel cables: Cross-section 95 mm², Ø 14 mm
Niro cables: Ø 8 mm, 19/1
ACSR DIN 48 204: Cross-section 300/50 mm², Ø 24.5, 7/3 mm
Steel armoured tubing: Ø 50 mm
Construction steel 235JR+AR: Ø 10 mm, full material
Screws: Ø 8 mm, 8.8
Can lead to crimping of steel cables are highly flexible, slightly edgy cut-away section, increased handgrip

Art. no.	Ø	mm ²	kg	PU
200178/S2	50	200	0,100	1

Front cable cutters

Front cable cutter

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



Art. no. 200124

Cutting range:	Cu/Al wire multi wiring	120	25
	Cu/Al wire sector format	120	25
	Cu wire fine wiring	120	25
	Cu wire fine wiring or telecommunication cable		25
Length:			245
Weight:			1,020

Front cable cutter

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



Art. no. 200126

Cutting range:	Cu/Al wire multi wiring	185	34
	Cu/Al wire sector format	240	34
	Cu wire fine wiring	240	34
	Cu wire fine wiring or telecommunication cable		34
Length:			330
Weight:			1,541

Front cable cutter

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. 200131

Cutting range:	Cu/Al wire multi wiring	240	35
	Cu/Al wire sector format	240	35
	Cu wire fine wiring	300	35
	Cu wire fine wiring or telecommunication cable		35
Length:			330
Weight:			1,673

Front cable cutter

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. 200151

Cutting range:	Cu/Al wire multi wiring	550	55
	Cu/Al wire sector format	550	55
	Cu wire fine wiring	550	55
	Cu wire fine wiring or telecommunication cable		55
Length:			485
Weight:			3,493

Hydraulic cutting



haupa®
216419
S32
BJL2011
Haupa GmbH & Co. KG
Königsplatz 105-109, 42657 Remscheid, Germany
CE

Hydraulic cable cutters

Hydraulic cable cutters

cutting head 180° rotatable, in the case, for copper and aluminium cables, **armoured steel cable**



Art. no.	TL	∅	kg	PU
216402	580	40	5,300	1
216404	690	85	7,000	1

Hydraulic cutting headstocks

Hydraulic cutting headstock

in bag, for copper or aluminium cables diameter, **for armoured steel cable (216408)**



Art. no.	∅	kg	PU
216408	85	11,300	1
216410	120	14,600	1

Hydraulic cutting headstock

with quick coupling and bag, for copper and aluminum cables up to max. 95 mm



Art. no.	∅	kg	PU
216415	95	11,300	1

Safety cutting equipment

Hydraulic safety life line cable cutter

used for working under voltage acc. to VDE 0105, part 100.

Consisting of:

- Hydraulic shear with high pressure hose of 10 m, with leak-free coupling system and earth harness acc. to EN 50340
- Double piston pump mounted on foot-pedal, with foot-operated switch
- Transport case
- Fully operational and filled with special oil

According to VDE 0105 Part 1 Para. 9.6.4 the cable cutter 216416 is used for cutting low and medium voltage cables up to 60 KV AC. It has been tested by the Professional Association of Precision Mechanics and Electro-Technology based on-testing GS ET-23 and has been awarded the GS-seal of approval. If a live wire is cut by accident, the operator is not in any danger.

The 10 m long high pressure hydraulic hose, which connects the pump to the cutting head, guarantees the highest standard of safety due to its special insulating features. The cutting process is controlled by watching the manometer attached to the pump, since, in general, the cutting head can not be seen when a cable is cut. This process has been tested repeatedly at medium voltage, with live wires and continuing main supply.

The cutting range goes up to 90 mm. The 12 mm cutting blades are made of high yield point steel and are polished, thus wear- and tear- resistant. A strongly dimensioned guidance of the blades guarantees a high degree of mechanical stability. Even in the event of a short circuit, a safe cutting of the wires is guaranteed, since the individual blades overlap by approx. 20 mm. The blades open themselves when pressure is reduced. The high pressure hose bursts at 2700 bar. The pressure relief safety system of the pump has been adjusted at a 625 bar level.



Art. no.	∅	NP	kg	PU
216417	85	625 bar	12,000	1
216416	120	625 bar	12,000	1
216416/850	120	850 bar	12,000	1

Video 216416



Hydraulic safety life line cable cutter



Art. no.	∅	NP	kg	PU
216421	95	625 bar	12,000	1

Battery powered cable cutters

Battery powered wire cutter „AS6ST-20“

hydraulic for cutting telecommunications cables, cutting head can be rotated by 180°, manual return after the cut has been completed.

Scope of delivery: 1 crimping tool, 1 quick charger, 1 battery, 1 carry strap loop, in SysCon stacking box.

- Pressing force kN: 60 kN
- Working pressure in bar: 700
- Cutting width Ø: 20
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 14,4 V, 3 Ah
- ACSR
- Sheet and wire armouring Cu
- Wire rope, bracing wire
- Soft rod steel
- Lead sleeve cable



Art. no.	Ø	kg	PU
216418	20	8,100	1

Battery powered wire cutter „AS6S32“

Hydraulic for cutting telecommunications cables, cutting head can be rotated by 180°, manual return after the cut has been completed.

Scope of delivery: 1 crimping tool, 1 quick charger, 1 battery, 1 carry strap loop, in plastic case.

- Pressing force kN: 60 kN
- Working pressure in bar: 700
- Cutting width Ø: 32
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 14.4 V, 3 Ah



Art. no.	Ø	kg	PU
216419	32	8,100	1

Battery powered wire cutter „AS6-40“

Cutting head can be rotated by 180°, manual return, for copper, aluminium cable and steel rope.

Scope of delivery:
1 crimping tool
1 quick charger
2 batteries
1 carry strap loop
in plastic case

- Pressing force kN: 60 kN
- Working pressure in bar: 700
- Cutting width Ø: 40
- Battery charging time in minutes: 60
- Battery type: NiMH, 14.4 V, 3 Ah



Art. no.	TL	Ø	kg	PU
216422	385	40	8,100	1

Battery powered cable cutter „AS12-52“

Cutting head can be rotated by 180°, manual return, for copper, aluminium cable.

Scope of delivery:
1 crimping tool
1 quick charger
2 batteries
1 carry strap loop
in plastic case

- Pressing force kN: 120
- Working pressure in bar: 700
- Cutting width Ø: 52
- ACSR
- Battery charging time in minutes: 60
- Battery type: NiMH, 14.4 V, 3 Ah



Art. no.	TL	Ø	kg	PU
216424	385	52	8,500	1

Battery powered cable cutter „AS6-32“

Cutting head can be rotated by 180°, manual return, for copper, aluminium cable.

Scope of delivery:
1 crimping tool
1 quick charger
2 batteries
1 carry strap loop
in plastic case

- Pressing force kN: 60
- Working pressure in bar: 700
- Cutting width Ø: 52
- Battery charging time in minutes: 60
- Battery type: NiMH, 14.4 V, 3 Ah



Art. no.	TL	Ø	kg	PU
216426	385	32	8,100	1

Battery powered cable cutter „AS6-85“

Cutting head can be rotated by 180°, manual return, for copper and aluminium cable, telephone cable.

Scope of delivery:
1 crimping tool
1 quick charger
2 batteries
1 carry strap loop
in plastic case

- Pressing force kN: 60
- Working pressure in bar: 700
- Cutting width Ø: 85
- Battery charging time in minutes: 60
- Battery type: NiMH, 14.4 V, 3 Ah
- TL in mm: 385
- Weight of set in kg: 9,0



Art. no.	TL	Ø	kg	PU
216428	385	85	9,000	1

Battery powered cable cutter „SAS6-85“

Cutting head can be rotated by 180°, manual return, for copper and aluminium cable as well as armoured steel cable, telephone cable.

Scope of delivery:
1 crimping tool
1 quick charger
2 batteries
1 carry strap loop
in plastic bag

- Pressing force kN: 60
- Working pressure in bar: 700
- Cutting width Ø: 85
- Armoured steel cable
- Battery charging time in minutes: 60
- Battery type: NiMH, 14.4 V, 3 Ah



Art. no.	Ø	kg	PU
216430	85	18,320	1

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Battery hydraulic cutting tools



Art:	216418	216419	216426	216422	216424	216428	216430	--	--
Type:	AS6ST-20	AS6S-32	AS6-32	AS6-40	AS12-52	AS6-85	SAS6-85	--	--

Hand hydraulic cutting tools

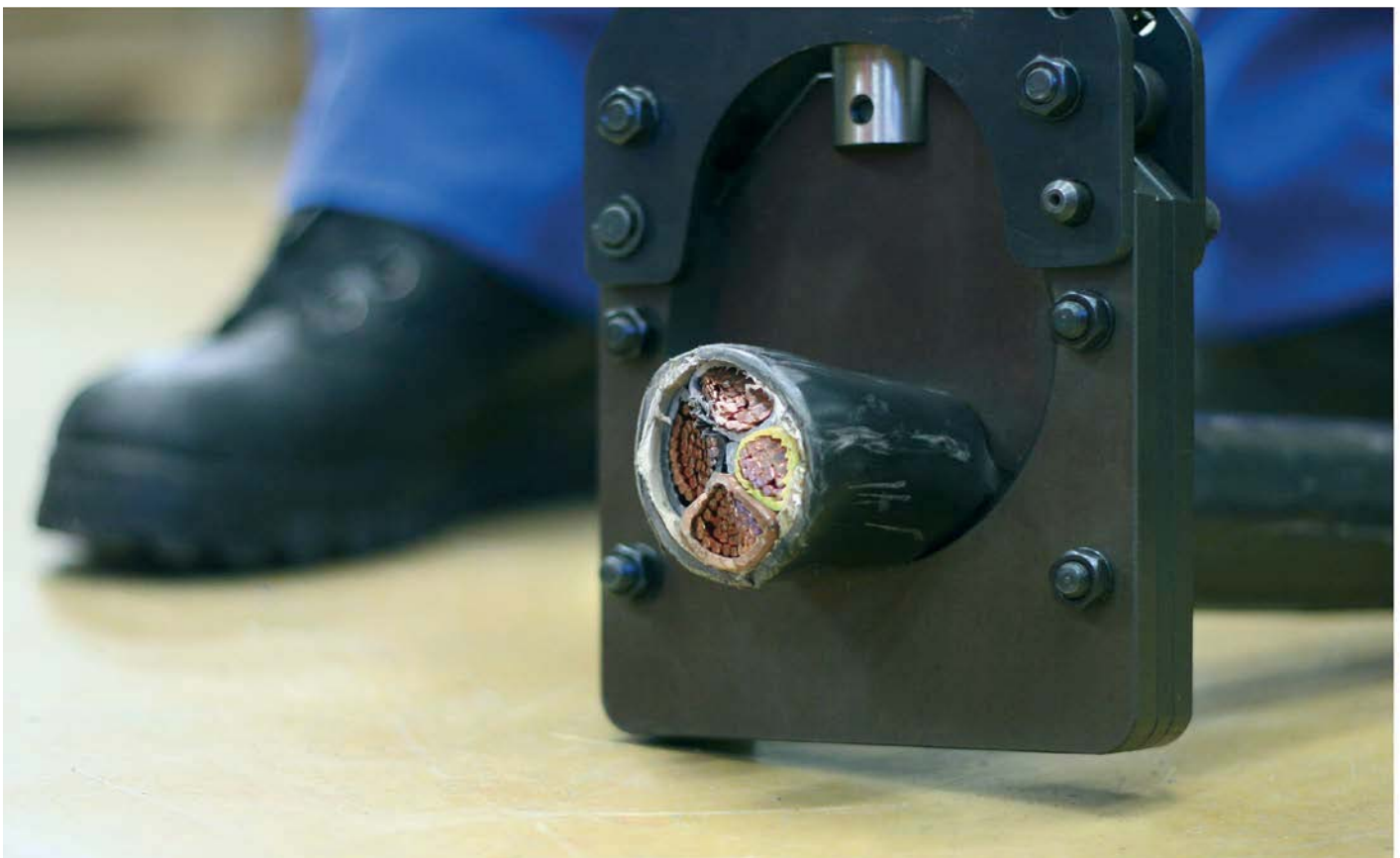
Art:	--	--	--	216402	--	--	216404	--	--
Type:	--	--	--	HS-40	--	--	HS-85	--	--

Hydraulic cutting heads

Art:	--	--	--	--	--	--	216408	216415	216410
Type:	--	--	--	--	--	--	KS-85	KS-95	KS120
Diameter	20	32	32	40	52	85	85	95	120
Head	swivel	open	open	swivel	swivel	swivel	swivel	open	swivel
Output force	6	6,5	6,5	6	12	6	700 bar	700 bar	700 - 850 bar
Immediately motor-stop	●	●	●	●	●	●	●	●	●

Material

Copper	20	32	32	40	52	46	85	95	120
Aluminium	20	28	28	40	52	28	85	95	120
Underground cable	--	--	--	40	52	50	85	95	120
Telephone cable	--	--	--	40	--	85	85	95	120
ACSR	●	--	--	--	32	--	--	--	--
Wire rope	●	--	--	●	●	--	--	●	●
	16	--	--	22	22	--	--	22	22
	20	--	--	25	25	--	--	25	25
	20	--	--	25	25	--	--	25	25
Guy wire	●	--	--	--	●	--	--	●	●
	20	--	--	20	15	--	--	15	15
	20	--	--	25	20	--	--	20	20
Soft steel bar	(under SS41) 13 mm	--	--	16	25	--	--	--	--
Sheetmetal & Wire armouring, CU	20	--	--	--	52	--	85	95	120
Lead sheathed cable	20	--	--	40	52	85	85	95	120



Stripping



INFO

Cable strippers

How to use:

- For removing the exterior protective sleeve
- Junctions and distribution boxes
- For lengthwise and circular cuts
- Round PVC cable/wet room cable/ribbon and flat cable
- Power lines/telecommunication lines, system data cables
- Co-axial and bell round cable/fibre optics cable
- Short-circuit proof lines/photovoltaic systems

Cable sheath cutter

for removing all insulating layers from cables with diameters as of 25 mm

- Replaceable dual blade
- Cutting depth can be set
- Suitable for lengthwise and circular cuts



Art. no.	Ø	kg	PU
110567	25	0,220	1
110569	replacement blade	0,040	1

Stripping pliers

For cutting and removing the cable sheathing of low and medium-high voltage cables

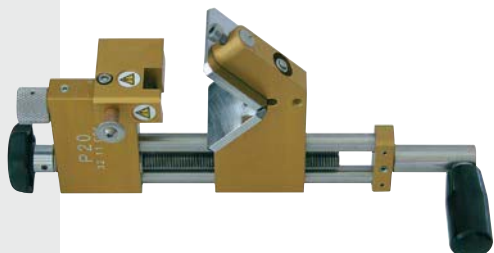


Art. no.	TL	Ø	kg	PU
200187	260	26-52	0,760	1
200188	290	47-75	1,100	1

Stripping tool for medium-high voltage cable

A universal tool for controlled and safe stripping of the firm extruded exterior semi-conductor layer of medium-high voltage cable with 10-30 KV and for greater voltage levels. Working range 10-50 mm.

- Stripping depth can be set
- Defined round cut
- Automatic work feed



Art. no.	Ø	kg	PU
200520	10-50	0,800	1
200520/1	replacement blade set	0,100	5

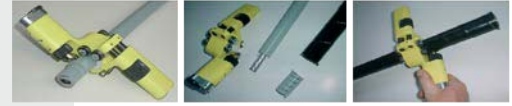
Cable sheath strippers

Cable Sheath Stripper

A combination tool for all standard cross-sections in the medium-high voltage range for VPE single-core cables..

Cutting and stripping the exterior sleeve and the inner cable insulation.

Two feeds and a zero setting can be set to ensure precise stripping. The sleeve is lifted at the cutting point and this prevents damage to the construction elements below.



Art. no.	mm ²	kg	PU
200524	35-500	0,800	1
200524/1	spare blades	0,020	1

Border cutter



Art. no.	Ø	kg	PU
200526	40	0,100	1
200528	60	0,100	1

Complete assembly case

Contents:

- Sleeve cutter
- Plastic prism
- Stripping device
- Silicone paste
- Border cutter
- Key for changing blades



Art. no.	mm ²	kg	PU
200522	35-500	0,800	1

Cable strippers

Cable stripper "Kabifix"

- For slicing open and removing the sleeve from cables
- Lengthwise and round cuts
- Ø 6 – 28 mm • NYY 4 – 16 mm² • NYM 5 – 16 mm²
- Coaxial and bell round cable
- Isoflex and PVC piping maximum Ø 25 mm
- Interior adjustment screw for adjusting the cutting depth
- Exchangeable blades



Art. no.	Ø	kg	PU
200022	6-28	0,096	1
200024		spare blades	0,010 1

Cable stripper "Kabifix LWL"

- Fibre-optic cable, slicing open and removing the sleeve from Ø 6 - 25 mm
- Lengthwise and round cuts
- Interior adjustment screw for adjusting the cutting depth
- Exchangeable blades



Art. no.	Ø	kg	PU
200023	6-25	0,136	1
200023/M		spare blades	0,003 1

Cable stripping knife

- For removing the sleeve from all current round cables
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- Cutting depth can be adjusted using the setting screw on the end of the handle
- Automatic adjustment to round and lengthwise cuts
- Handle security thanks to soft component insert on the bar and handle
- Titanium nitride coated replacement blade in the housing
- Housing made from high-quality, hard wearing polyamide
- With titanium nitride coated hook blade
- TÜV / GS tested



Art. no.	Ø	kg	PU
200031	8-28	0,100	1
200046		spare blades	0,004 1

Cable stripping knife

- For removing the sleeve from all current round cables
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- Cutting depth can be adjusted using the setting screw on the end of the handle
- Automatic adjustment to round and lengthwise cuts
- Handle security thanks to soft component insert on the bar and handle
- Titanium nitride coated replacement blade in the housing
- Housing made from high-quality, hard wearing polyamide
- TÜV / GS tested



Art. no.	Ø	kg	PU
200038	4-16	0,090	1
200040	8-28	0,091	1
200042	28-35	0,101	1
200044	35-50	0,108	1
200046		spare blades	0,004 1

Stripper standard

- For removing the sleeve from all current round cables
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- No need to set blades required to cutting depth
- Fixture clip for safe storage
- Housing made from high-quality, hard wearing polyamide
- TÜV / GS tested



Art. no.	Ø	kg	PU
200036	8-13	0,065	1

Universal stripper

- Stripper for removing the sleeve from all current round cables Ø 8 to 13 mm
- Removing the insulation on various cable types, e.g. NYM 3 x 1.5 mm² to 5 x 2.5 mm²
- Contoured blades for stripping wires 0.2-0.3-0.8-1.5-2.5-4.0 mm²
- Ideal for working in distribution and junction boxes
- Longer cable lengths can be stripped using the lengthwise cutting mechanism
- Safe hold thanks to the inclusion of anti-slip handle zones
- No need to set blades required to cutting depth
- Additional titanium nitride coated retractable blade
- TÜV / GS tested



Art. no.	Ø	kg	PU
200043	0,2-4,0	0,063	1

Flatcable stripper

For stripping round cables with rubber or hard plastic sleeves and flat cables up to 12 mm in width (e.g. NYM cable 4 3 x 1.5 to 5 x 2.5 mm², insulated flat cables of flexible cables).

- Stripping tool for cables and litz wire 0.8 - 1.5 - 2.5 mm²
- Ideal for working in tight and difficult to access areas
- Additional blade for lengthwise cut
- Fixture clip for safe storage
- TÜV / GS tested



Art. no.	Ø	kg	PU
200037	0,8-2,5	0,068	1

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Stripper "Coaxi"

- For removing the sleeve from all current coax cables
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- 2 blade pairs for two-stage stripping
- Cutting depth does not need to be set
- No damage to the inner sheath and inner cable elements
- Embossed scale for precise stripping length
- No limitation on the stripping length
- With fixture at the end of the handle
- TÜV / GS tested



Art. no.	Ø	kg	PU
200035	4,8-7,5	0,039	1

Stripper for coaxial cable

- For removing the sleeve from all current coaxial cables Ø 4 to 7.5 mm
- For stripping various cable types, e.g. TV coax, RG 58 / RG 59, PVC flex 3 x 0.75 mm²
- New closure system
- Safe hold thanks to the 2-component handle shells
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- 2 blade pairs for two-stage stripping
- Cutting depth does not need to be set
- No damage to the inner sheath and inner cable elements
- Easily recognised, internal length scale
- TÜV / GS tested



Art. no.	Ø	kg	PU
200636	4,8-7,5	0,041	1

Cable strippers for short-circuit proof lines

- For stripping current energy and safety cables
- For stripping short-circuited and grounded, flame retardant, halogen-free cables, e.g. NSGAFÖU, VER H07RN-F
- With lengthwise stop 8 - 10 - 12 mm for even stripping lengths
- For stripping safety and energy cables
- No need to set blades required to cutting depth
- For stripping dual insulated solar cables
- TÜV / GS tested



Art. no.	Ø	kg	PU
200630	1,5	0,054	1
200632	2,5-6	0,054	1
200634	10-16	0,054	1

PC-Strip

- For stripping round cables Ø 5,5-15 mm
- For stripping various cable types, e.g. IBM Type 1, Type 2, flexible cables, etc.
- For stripping PVC insulated data, communication and control cables
- With stripping tool for cables and litz wire from 0.2 - 4 mm²
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- No need to set blades required to cutting depth
- TÜV / GS tested



Art. no.	Ø	kg	PU
200039	5,5-15	0,064	1

Stripper for coaxial cable

- For coaxial cables, RG-58, RG-59/62, RG-6 and 6QS
- With 3 replaceable and individually adjustable blades
- Cutting distance of 8 and 4 mm



Art. no.	crimp	kg	PU
200069	RG 58-59-62-6	0,048	1

Optical fibre stripper

- Universal tool, stripper for fibre optic cables 2.8, 5.0 and 8.0 mm
- Precision blade for the glass fibre cable itself
- Stripping of inner insulation 0.254 mm and 0.32 mm



Art. no.	Ø	kg	PU
200067	2,8-8	0,054	1

PC Cat

- For stripping round cables Ø 4.5 - 10 mm
- Stripping various cable types, e.g. CAT 5, CAT 6, CAT 7, Twisted-Pair cable
- With stripping tool for cables and litz wire from 0.2 - 0.8 mm²
- For stripping PVC insulated CAT and network cables
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- No need to set blades required to cutting depth
- TÜV / GS tested



Art. no.	TL	Ø	kg	PU
200637	125	4,5-10	0,062	1

No.1-Cat

- For stripping PVC insulated data, communication and control cables Ø 4.8 - 10.0 mm
- Cat5, Cat6, Cat7, Twisted-Pair cable
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- 2 blade pairs for outer sleeve and foil sheath
- Cutting depth does not need to be set
- With length scale
- TÜV / GS tested



Art. no.	TL	Ø	kg	PU
200638	128	4,8-10	0,050	1

Stripper for UTP-/STP-data cable

Universal tool for cutting, stripping and removing the sleeve from round and flat cables, sheathed and unsheathed cables.

- Cutting depth can be set
- Exchangeable blades
- For cable with a diameter of 3.5 to 9 mm



Art. no.	Ø	kg	PU
200068	3,5-9	0,060	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 mm² Ø) to AWG 20 (0.8 mm² Ø)
- Adjustable straight dog up to 15 mm
- Wire cutter up to 0.8 mm Ø (CU cable)



Art. no.	Ø	kg	PU
200033	0,25-0,8	0,039	1

Precision stripper for optic fibres

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 Ø



Art. no.	Ø	kg	PU
200622	0,18	0,029	1

Sensor Tool LSA

Standard tool for all data, information and telecommunication cables with cutting mechanisms, hook and blade

- Cable diameter: 0.35 - 0.9 mm
- Core diameter: 0.7 - 2.6 mm



Art. no.	Ø	kg	PU
300322	0,35 - 0,9	0,078	1

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INFO

Wire stripper

Stripping is the removal the insulation on an electrical cable (wire). The following stripping pliers are used to do this:

Manually adjustable stripping pliers

Are set by hand to the stripping diameter by eye. The risk of damaging the cable is thus very high.

Automatic or self-adjusting stripping pliers

For fast and precise cutting and stripping. These tools automatically adjust to the required cable cross-section or insulation thickness. Thus it is not possible to damage the cable or the insulation. A lengthwise stop makes serial insulation easier.

Micro-precision stripping tools

These are used when fine wires are to be stripped. Data technology, network technology, controller construction, telecommunications, electronics, model construction.

Stripping tools for special insulation types

Teflon insulations are a rubber-like insulation type which make removing the insulation of an electrical cable more difficult. In such tough situations we recommend stripping tools that cut the insulation sleeve.

Advantages

- Constant safe stripping results
- Fault free processing
- Precision in every cut
- Serial stripping is made easier by lengthwise stop
- Automatic stripping pliers = 3 in 1 = cut + remove sleeve + strip

Cable stripper, manual

Multi-functional tool including cable cutter for copper cable.

- Comfortable handles
- Precise removal of sleeve thanks to formed blade



Art. no.	TL	mm ²	kg	PU
210620	175	0,5-2,5	0,158	1
210624	175	0,25-0,75	0,161	1

Cable stripper, manual optical fibre

Multi-functional tool for fibre optic cables.

- For slicing open and cutting cables
- Cutting depth can be set
- Specially designed for use with fibre optic cables (outer sleeves and buffer)
- With handle lock



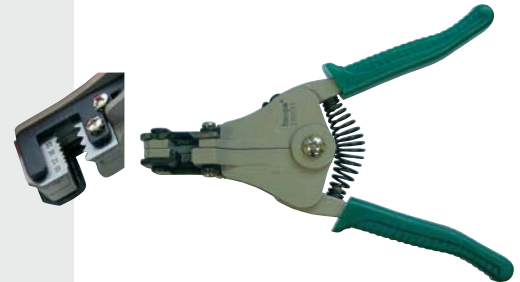
Art. no.	TL	mm ²	kg	PU
200057	150	0,18	0,120	1

Wire strippers

Cable stripper, automatic

- No damage to the cable
- Sleeve is removed according to standard from fine wire cables
- Replaceable blade made from special steel
- Robust metal body

A pressure spring returns the cutters to the starting position, also ideally suited for use with fibre optic cables.



Art. no.	TL	mm ²	kg	PU
210691	165	0,5-2	0,340	1
210692	165	1-4	0,350	1

Wire stripper „High Strip“

- Suitable for cables with problematic insulation types, e.g. rubber, silicone, TPE, etc.
- For cable sized 0.5 - 0.75 - 1.5 - 2.5 - 4.0 mm²,
- Adjustable lengthwise stop 5 to 15 mm,
- TÜV / GS tested



Art. no.	TL	mm ²	kg	PU
210684	170	0,5-4	0,130	1

Super wire stripper

- Automatic setting to the cross-section
- Working range of 0.5 to 4 mm²
- Integrated side cutter of up to 2.0 mm²



Art. no.	TL	mm ²	kg	PU
210683	170	0,5-4	0,119	1

Wire strippers

Automatic wire stripper Super Plus

for solid and flexible conductors and strands between 0.2 and 6.0 mm² (AWG 24 - 10)

- For fast and precise stripping even of difficult – to-access places
- No adjustment to wire cross section necessary
- Suitable for cables with insulation made from PVC and other materials
- Special scanning system, therefore no damage to conductors
- Adjustable longitudinal stop from 6.0 to 15.0 mm for even serial stripping
- External side cutters for conductors up to 2.5 mm²
- Body of pliers made from fibre-glass reinforced polyamide
- Handle of pliers with elongated hole at the bottom for mounting
- TÜV / GS tested



Art. no.	TL	mm ²	kg	PU
210695	170	0,2-6	0,088	1
210695/E		spare blades	0,010	1

Automatic wire stripper

- For single, multiple and fine wire cables from 0.2 to 6.0 mm²
- Ergonomic, automatic strippers
- Increased operating comfort thanks to anti-slip soft components on the stripper handle
- Automatic, energy-saving scanning system
- Cable cross-section does not need to be set
- Optimally positioned side cutter for up to 2.5 mm²
- Adjustable lengthwise stop 6 to 18 mm for same sleeve removal lengths when carrying out series work
- Exchangeable blades
- TÜV / GS tested



Art. no.	TL	mm ²	kg	PU
210696	180	0,2-6	0,151	1
210696/2		spare blades	0,030	1

Automatic wire stripper HAUPA-Special

- Ergonomic, automatic strippers
- For cable from 0.5 to 6.0 mm²
- Automatic scanning system
- Cable cross-section does not need to be set
- Optimally positioned side cutter for Cu wires up to Ø 2.8 mm
- Adjustable lengthwise stop to 18 mm
- TÜV / GS tested



Art. no.	TL	mm ²	kg	PU
210681	170	0,5-6	0,179	1

Wire stripper / Solar

- For cables with large cross-sections from 6.0 to 16 mm²
- Also for stripping PVC flex 3 x 0.75 mm² or solar cables Solarflex-X PV1-F
- Automatic strippers
- Optical lengthwise stop to 20 mm
- Cable cross-section does not need to be set
- Any stripping length can be selected as needed
- Exchangeable blades
- TÜV / GS tested



Art. no.	TL	mm ²	kg	PU
210685	160	6-16	0,147	1

Flat cable pliers

- For PVC insulated flat cables up to a maximum of 12 mm in width and a cross-section of 0.75 x 2.5 mm²
- Automatic strippers
- Optical lengthwise stop to 20 mm
- Strippers do not need to be set
- Any stripping length can be selected as needed
- Exchangeable blades
- TÜV / GS tested



Art. no.	TL	mm ²	kg	PU
210686	160	0,75-2,5	0,148	1

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Wire strippers

Wire stripper Sensor Mini

The HAUPA Sensor Mini has a specially designed blade geometry with a working area as of 3.2 mm Ø for sensor cables with smaller cross-sections.

- Automatic wire strippers for stripping combination wires for connecting sensor actuators, distribution boxes/bus couplings
- Any length can be stripped
- No need to make setting to the cable cross-section
- Blades can be replaced
- TÜV/GS tested



Art. no.	TL	Ø	kg	PU
210730	170	> 3,20	0,121	1

Wire stripper sensor special

Automatic stripper for stripping combination cables for connection of sensor actuators, distribution boxes/bus couplings. For stripping halogen-free screened or unscreened sensor actuator cables with PUR or PVC exterior sleeve and a cable construction with 3 to 8 cores.

- e.g. sensor cable 3 x 0.34 mm² unscreened up to 8 x 0.25 mm² screened
- Any stripping length
- Cable cross-section does not need to be set
- Exchangeable blades
- TÜV / GS tested



Art. no.	TL	Ø	kg	PU
210729	170	4,4-7,0	0,122	1

Cable stripper ASI, automatic

For stripping AS interface cables with TPE/PUR exterior insulation. For use in connecting actuator-sensor interface components.

- Blade contour designed for use with the AS interface cable
- Strippers do not need to be set
- Any stripping length can be selected as needed
- Exchangeable blades
- TÜV / GS tested



Art. no.	TL	kg	PU
210693	160	0,117	1
210693/1	spare blades	0,030	1

Cable stripper Outlet 20

Art. 210697

- For stripping round cable Ø 7.5 to 9 mm
- Insulation thickness of cable maximum 1.2 mm
- Ideal for processing NYM cables 3 x 1.5 mm to 5 x 1.5 mm²
- Compatible with the Cable Outlet laying system from OBO Bettermann or R & M

Art. 210699

- For stripping round cable Ø 7.5 to 9 mm
- Insulation thickness of cable maximum 1.65 mm
- Ideal for processing NYM cables 3 x 1.5 mm to 5 x 1.5 mm²
- Coaxial cable, screened or unscreened measuring control and control cables

Suitable for connecting potential equalising, screened connection system or grounding clips.



Art. no.	TL	Ø	kg	PU
210697	160	7,5-9	0,104	1
210699	160	7,5-9	0,100	1

Automatic wire strippers for series production

Automatic cable stripper

- For stripping fine wires and solid cables 0.08 – 2.5 mm²
- Stripping length, maximum 15 mm
- Automatic setting to the cross-section
- Integrated side cutter of up to 6 mm²
- With stripping lengthwise stop



Art. no.	TL	mm ²	kg	PU
211928	160	0,08-2,5	0,156	1
211928/1		spare blades	0,005	1

Automatic cable stripper

- For stripping fine wires and solid cables 0.08 – 6 mm²
- Automatic setting to the cross-section
- Integrated side cutter of up to 6 mm²
- With stripping lengthwise stop



Art. no.	TL	mm ²	kg	PU
211930	205	0,08-6	0,255	1
211930/1		spare blades	0,005	1

Automatic cable stripper

- For stripping fine wires and solid cables 6 – 16 mm²
- Automatic setting to the cross-section
- Integrated side cutter of up to 6 mm²
- With stripping lengthwise stop



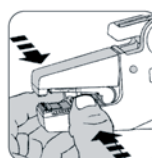
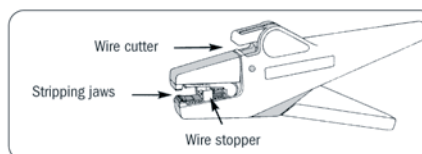
Art. no.	TL	mm ²	kg	PU
211932	205	6-16	0,250	1
211932/1		spare blades	0,005	1

Automatic cable stripper

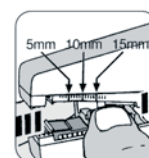
- For stripping fine wires and solid cables 0.03 – 6 mm²
- For stripping and cutting dual insulated cables
- For stripping and cutting 4-6-8-pole telephone or data cables
- Automatic setting to the cross-section
- Integrated side cutter of up to 6 mm²
- With stripping lengthwise stop



Art. no.	TL	mm ²	kg	PU
210690	200	0,03-6	0,184	1

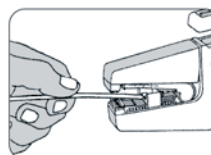


Squeeze wire stopper from both sides

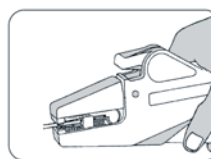


Set the required stripping length

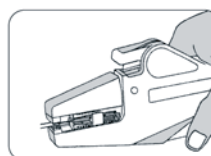
Set the stripping length



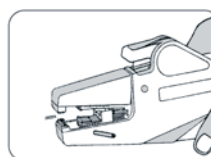
Feed wire to the wire stopper with pliers



Squeeze pliers handles, pliers close automatically



Stripping slide returns



Release handles, pliers open automatically

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PC Strip
PV/solar cables
 Art. 200630/32/34



Wire stripping pliers
PV/solar cables
 Art. 210685



Automatic
Wire stripping pliers
Wiring
 • Switch/Socket
 Art. 219696



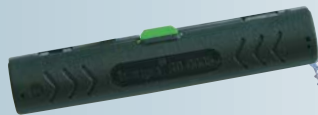
Cable stripping knife with hook blade
Cable installation
 • Main cable feed
 • Sub-distribution
 Art. 200031



Universal stripper
House installation
 • Cavity wall sockets
 Art. 200043



PC Cat
House network
 Art. 200637



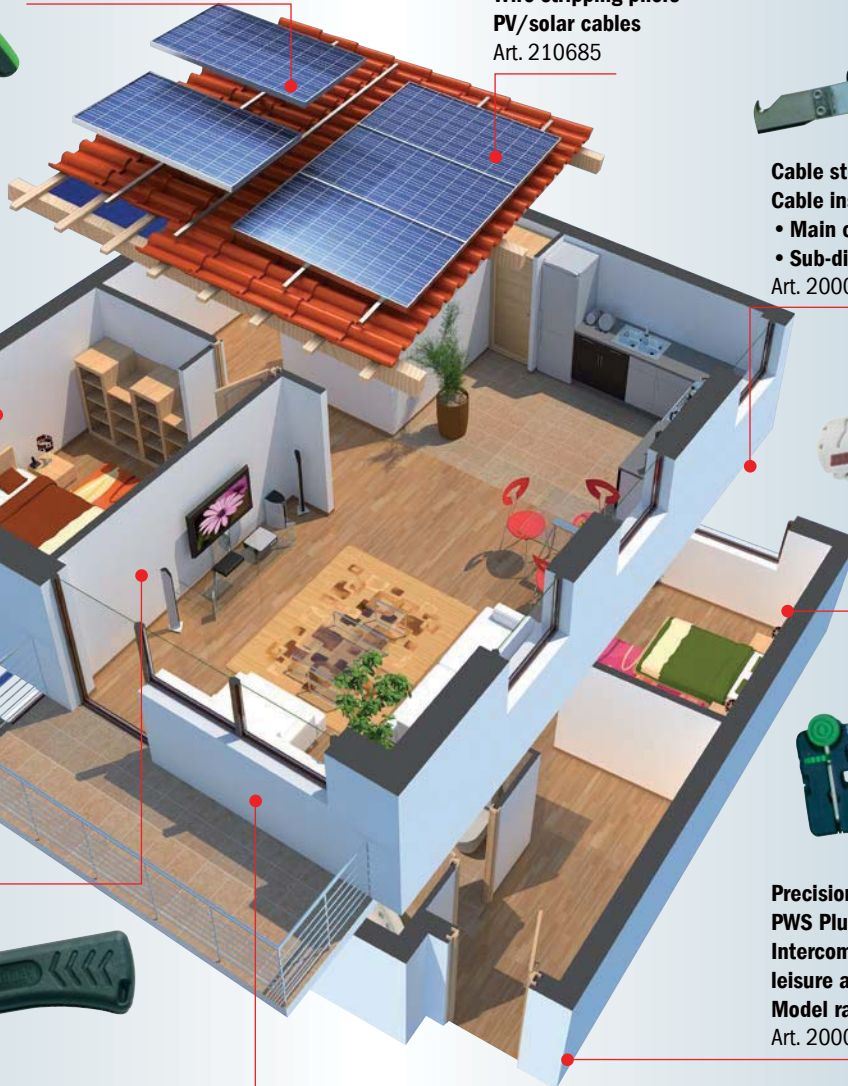
Stripper for coaxial cable
TV, hi-fi systems
 Art. 200636



Precision stripper
PWS Plus
Intercom systems, alarm systems,
leisure activities, bicycle illumination
Model railways
 Art. 200033



„Coaxi“ stripper
TV, hi-fi systems
 Art. 200035



Strippers for building installation work

Pressing and crimping



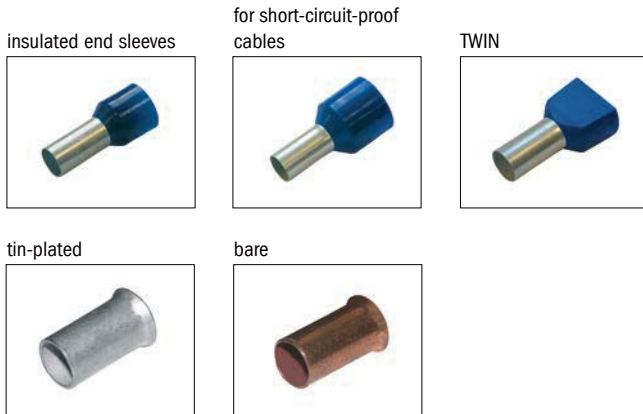
INFO

Crimping pliers for end sleeves

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

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

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



Crimping pliers

for core cable ends, with cutting and stripping mechanism, matt, chrome-plated



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

Crimping pliers

short construction, 20% angled handy form, with locking device, with adjustable crimp pressure, **trapezoidal pressing**



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

Crimping pliers for twin end sleeves

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



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

Crimping pliers

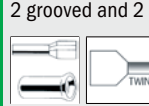
with locking device, with adjustable crimp pressure, chrome plated, **trapezoidal pressing**



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

Crimping pliers

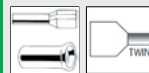
precise square crimping profile, automatic setting to the conductor cross-section, unlockable forced lock, guarantees connections that meet DIN, high transmission and ergonomically shaped plastic handles for fatigue free working, **square pressing**



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

Crimping pliers

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



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

Front-Crimping pliers

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

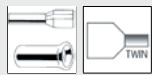


Art. no.	mm ²	kg	PU
210819	0,08-10 square	0,489	1
211810	0,08-16 square	0,489	1

Crimping pliers for end sleeves

Front-Crimping pliers

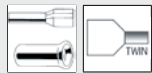
automatic adjustment of crimp-profile, with locking device, with adjustable crimp pressure, **trapezoidal pressing**



Art. no.	mm ²	kg	PU
210979	0,14-6	0,575	1
210979/A	2,5-10	0,481	1
210979/B	10-16	0,584	1

Crimping pliers

Lever translated version for better transmission of force, with unlockable locking mechanism, **trapezoidal pressing**



Art. no.	mm ²	kg	PU
210788	10-50	0,732	1
210789	50-95	0,800	1

Quadro with magazine

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

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



Art. no.	TL	mm ²	kg	PU
210682/1	170	0,5-2,5	0,056	1

Quadro complete set in case

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

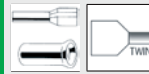


Art. no.	TL	mm ²	kg	PU
210682	170	0,5-2,5	0,713	1
210682/2		Magazine for Quadro	0,020	1
210682/3		Box for end sleeves	0,010	1

Pneumatic crimpers

HAUPA Pneumatic crimpers

Pneumatic crimpers crimp wire end sleeves quickly and without effort. Table top versions are actuated by a foot switch, allowing the operator to use both hands. The Pneumatic Crimpers are lightweight and easy to use. The crimping mechanism is easily activated, making it perfectly suited for work in control cabinets and electrical equipment. These tools are maintenance free - they require no routine calibration - only 60 - 90 psi to allow proper operation. Incl. spiral hose 2 m



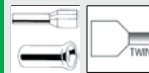
Video 217010-40



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

HAUPA Pneumatic crimpers table top versions

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



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

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Crimping pliers for insulated crimp cable lugs

INFO

Crimping pliers for insulated crimp cable lugs

Insulated cable lugs and crimp cable lugs are crimped in an oval form. The coloured marking of the wire cross section to the insulated cable lug is defined in DIN 46245, Parts 1, 2 and 3.

Red => stands for 0.5 to 1 mm²

Blue => stands for >1.5 to 2.5 mm²

Yellow => stands for >2.5 to 6 mm²

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

Butted edge



Ring terminals



Fork terminals



Round terminals



Flat terminals



Socket sleeves (female)



Round sleeves



Round pins



Socket sleeves (male)



Butt connectors



Parallel connectors



End connectors



Crimping pliers

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



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

Crimping pliers

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



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

Crimping pliers for shrink connectors

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



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

Crimping pliers

Lever translated version for better transmission of force, with unlockable locking mechanism, **oval pressing**



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

Crimping pliers

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



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

Combi-Crimping pliers

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



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

INFO

Crimping pliers for uninsulated terminals

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

Crimping terminals
Ring type



Crimping terminals
Fork type



Crimping terminals
Pin type



Crimping terminals
Butt connectors



Crimping terminals
Parallel connectors



Crimping pliers

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



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

Crimping pliers

with locking device, with adjustable crimp pressure, chrome plated, **mandrel shape pressing**



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

Crimping pliers

Lever translated version for better transmission of force, **with mandrel pressing**, for standard tubular cable lugs and connectors. Particularly well suited to nickel tubular cable lugs and connectors



Ni



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

Crimping pliers

Lever translated version for better transmission of force, **with mandrel pressing**, for standard tubular cable lugs and connectors. Particularly well suited to nickel tubular cable lugs and connectors



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

Crimping pliers for uninsulated open brass cable lugs

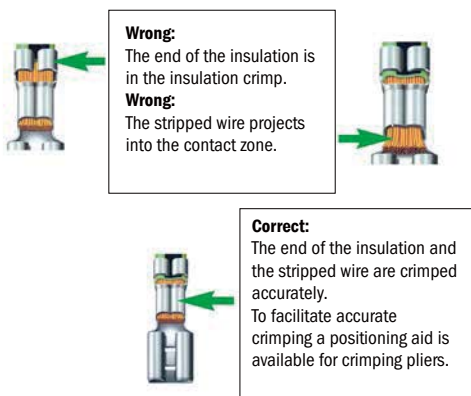
INFO

Crimping pliers for uninsulated open brass cable lugs

We distinguish between wire crimps and insulation crimps. The end of the wire should be flush with the wire crimp or extend beyond it no further than 1 mm, so that the plug function is not affected. The insulation end must not project into the contact zone. 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.



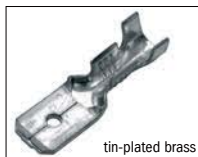
Socket sleeves (female) with cable stop



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



Flat terminals

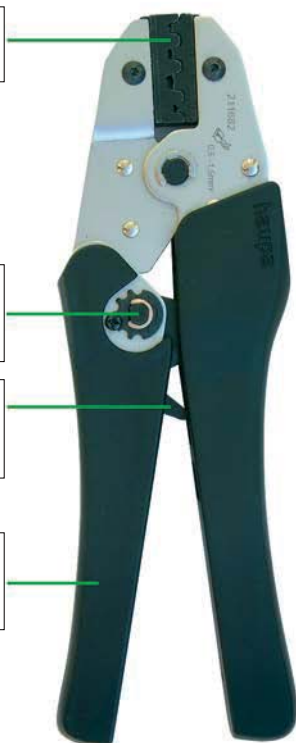


Precision-ground crimp profiles
=> clean crimp

Adjustable crimping pressure
=> Wear compensation via adjusting screw

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

Ergonomically formed plastic handles
=> low fatigue work



Crimping pliers

short construction, 20% angled handy form, with locking device, with adjustable crimp pressure, **roll pressing**



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

Crimping pliers

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



Art. no.	mm ²	kg	PU
211682	0,5-2,5	0,568	1
210762	0,25-6	0,575	1

Crimping pliers

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



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

Crimping pliers for coaxial connections

Crimping pliers for coax-connections

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



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

Crimping pliers for coax-connections

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



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

Crimping pliers for contacts and connectors

INFO

Crimping pliers for contacts and connectors

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

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

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

Crimping pliers

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



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

Crimping pliers

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



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

Crimping pliers

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



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

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Crimping pliers for Photovoltaik

INFO Photovoltaik



Photovoltaics is the direct conversion of light energy into electrical energy by means of solar cells. This method has been in use as an energy supplier in the majority of space vehicles since 1958. Since then it has been implemented on Earth as a method of power generation and is used, among other things, on roof surfaces, for ticket machines, in pocket calculators, on sound damping walls and on open spaces.

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



Crimping pliers



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



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

Crimpset „MULTI Photovoltaik“



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

The set contains the HAUPA Crimping plier Multi (211962) as well as 2 most used dies for MC-Connectors. The pliers with the dies are packed in a handy synthetic material suitcase which protects against loss, pollution and damages of the tools.

Other advantages of HAUPA Multi set:

- Screw less fast change system for crimping dies
- Enormous space and weight saving
- Single hand operation with expenditure energy
- Ergonomic 2 component handle with soft synthetic material insert
- With ratchet and built-in safety release, guarantees proper electrical connection
- Adjustable crimp pressure
- Pliers body from 3 mm, specially compensated, hardened sheet steel
- Chrome plated tool frame
- Additional purchase of other 22 crimping dies possible
- Handy box protects pliers and dies

Contents of set:

Crimping plier Multi (211962)

Crimping dies for

„Multi - Contact“ connectors MC3
2,5 + 4 + 6 mm², AWG 13/11/10

Crimping dies for

„Multi - Contact“ connectors MC4
2,5 + 4 + 6 mm², AWG 13/11/10



Art. no.	width	height	depth		kg	PU
212005	260	40	200	MC3 + MC4	1,150	1

HAUPA Crimp System for Photovoltaics



Crimp System Pliers for Photovoltaics

The basic hardware of the carrying case consists of:

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

Specifications:

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



Art. no.		mm ²	kg	PU
212200	without dies	6	0,998	1

Crimp inserts for "Huber & Suhner" contacts

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

Crimp inserts for "multi-contact" contacts

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

Crimp inserts for "multi-contact" contacts

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

Crimp insert for "Hirschmann" contacts

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

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

Dies for Solar contacts Amphenol

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

Crimping pliers for modular plugs

INFO

Crimping pliers for modular plugs

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

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

Crimping pliers for modular plugs

for unshielded modular plugs, inexpensive, lightweight tool for the casual usage



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

Crimping pliers for modular plugs

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



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

Crimping pliers for modular plugs

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



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

Crimping pliers for modular plugs

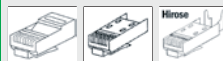
for unshielded modular plugs 4-, 6- and 8pole plug, 6DEC, heavy construction, with linear stroke and locking device, with cable cutter and stripper. Exactly crimp process through parallel crimping, even crimping quality by means of safety catch



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

Crimping pliers for modular plugs

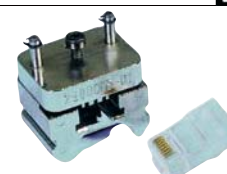
Semi-professional crimping pliers for shielded and unshielded Western plugs, with replaceable crimping dies, easy to use, light on the arms due to optimum leverage, optimum crimping, pliers body made of hardened quality steel, quick and simple replacement of crimping dies, adjustable crimping pressure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



Art. no.	kg	PU
213000	0,420	1

Dies

for crimping pliers 213000



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

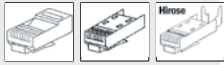
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Crimping pliers for modular plugs



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



Art. no.		kg	PU
213020	without dies	0,474	1

Dies



for crimping pliers 213020



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



213000



213020

Network range

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

Content:

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



Art. no.	kg	PU
300033	0,700	1

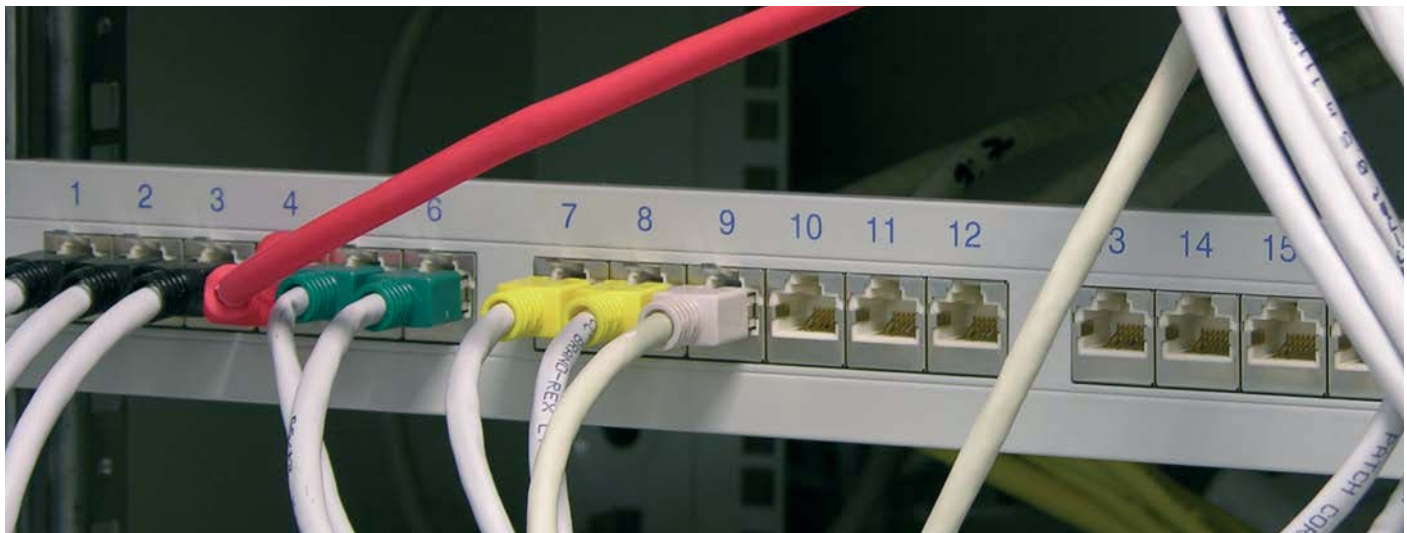
Reference list for western plugs on the Internet:

Short to medium runs

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

Medium to large runs

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



Multi-function pliers

Crimping pliers Combi-Crimp

crimping pliers for insulated terminals 0,5 - 2,5 mm² and end sleeves 0,5 - 6 mm²



Art. no.	kg	PU
210784	0,560	1

Crimpset X-Crimp

Crimping pliers used to quickly change HAUPA precision pressing inserts. Supplied in robust nylon bag (article 220260).

- Reliable crimping results just like with fixed pressing inserts
- Forced lock ensures standardised pressing actions
- Flat construction enables you to work precisely even when space is at a premium

Content:

Art. 211690
Art. 210763/E
Art. 210764/E
Art. 210765/E
Art. 210761/E



Art. no.	kg	PU
211692	0,900	1

Crimping pliers X-Crimp

Crimping pliers used to quickly change HAUPA precision pressing inserts, including dies article 210761/E. Supplied in robust nylon bag (art. 220260).

- Reliable crimping results just like with fixed pressing inserts
- Forced lock ensures standardised pressing actions
- Flat construction enables you to work precisely even when space is at a premium



Art. no.	kg	PU
211690	0,566	1

Crimping dies for insulated crimp cable lugs

for insulated crimp cable lugs, oval pressing



Art. no.	mm ²	kg	PU
210761/E	0,5-6,0	0,053	1

Crimping dies for uninsulated terminals

for uninsulated terminals, mandrel shape pressing



Art. no.	mm ²	kg	PU
210764/E	1-10	0,111	1

Crimping dies for flat connectors

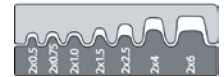
for flat connectors, uninsulated open brass cable lugs, roll pressing



Art. no.	mm ²	kg	PU
210762/E	0,25-6	0,111	1

Crimping dies for TWIN end sleeves

for TWIN-end sleeves, trapezoidal pressing



Art. no.	mm ²	kg	PU
211676/E	0,5-6	0,050	1

Crimping dies for end sleeves

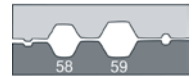
for end sleeves, trapezoidal pressing



Art. no.	mm ²	kg	PU
210763/E	0,5-4	0,072	1
210842/E	1-10	0,054	1
210765/E	6-16	0,111	1
211672/E	10-25	0,050	1

Crimping dies for coaxial cable

for coaxial cable, hexagon pressing



Art. no.	crimp	kg	PU
210767/E	RG 58-59-62-6	0,050	1

Crimping dies for Photovoltaik MC3

for „multi-contact“ contacts



Art. no.	mm ²	kg	PU
211657/E	6,0 MC3	0,050	1

Crimping dies for Photovoltaik MC4

for „multi-contact“ contacts



Art. no.	mm ²	kg	PU
211659/E	6,0 MC4	0,050	1

Crimping dies for cable lugs / end sleeves

for end sleeves 0,5 - 6 mm² / cable lugs 0,5 - 2,5 mm²



Art. no.	kg	PU
210784/E	0,56	1

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Germany: HAUPA, Koenigstr. 165-169, 42853 Remscheid, Phone: +49 (0)2191 8418-0, Fax: +49 (0)2191 8418-840, sales@haupa.com

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Multi-function pliers

Crimpset MULTI

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

Contents:

- crimping plier MULTI

Dies for:

- (211998) insulated terminals 0.5 - 6 mm²
- (211963) insulated and uninsulated end sleeves 0.5 - 16 mm²
- (211999) uninsulated terminals 0.5 - 10 mm²
- (210000) dies for BNC and TNC coaxial connectors RG 58-59-62-71

Product specifications

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



Art. no.	width	height	depth	kg	PU
211960	260	40	200	1,119	1

Crimping pliers „Multi“

Long version, also suitable for two-handed operation, no dies



Art. no.	kg	PU
211962	0,582	1

More possibilities of dies - please, order separately

211963	End sleeves 0,5 - 16 mm ²	1
211964	End sleeves 16 - 35 mm ²	1
211965	Sockets 0.5 - 2.5 mm ²	1
211990	Coax, Thinnet, Mini-UHF, BNC/TNC RG 58, RG 174	1
211991	Coax, BNC/TNC RG 174, RG 179, small coaxial connectors	1
211992	SMA, SMB, Mini-59, Mini-UHF, BNC/TNC RG 6, RG 6 Quad	1
211993	Coax, CATV "F" Typ, BNC/TNC RG 6, RG 6 Quad	1
211994	N-Typ RG 8, RG 11	1
211995	Coax, N-Typ RG 8, RG 11, RG 213, RG 216	1
211996	Fibre Optic, SMA Typ	1
211997	Fibre Optic, SMA, SMB, SFR, ST, SC Typ	1
211968	RJ 45 - 8P8K, Steward Connectors, 22-24 AWG	1
211969	RJ 11, RJ 12 - 6P6K, Steward Connectors, 22-24 AWG	1
211970	Telefon 4P4K, AMP+Steward Connectors, 22-24 AWG	1
211971	RJ 45 - 8P8K, AMP, 22-24 AWG	1
211972	RJ 11, RJ 12 - 6P6C, AMP, 22-24 AWG	1
211973	RJ 11, DEC MMJ - 6P6K, AMP, 22-24 AWG	1
211974	RJ 50 - 10P10K, AMP, 22-24 AWG	1
211980	RJ 45 - 8P8K, short, Steward Connectors, STP 22-24 AWG	1
211981	RJ 45 - 8P8K, long, Hirose, STP 22-24 AWG	1
211982	RJ 45 - 8P8K, short, Hirose, STP 22-24 AWG	1
211983	RJ 45 - 8P8K, Molex, for Ø 5.0 mm, STP 22-24 AWG	1
211985	RJ 45 - 8P8K, AMP, Molex, for Ø 6.0 mm, STP 22-24 AWG	1
211998	Insulated terminals 0,5-6,0 mm ²	1
211999	Uninsulated terminals 0,5-6,0 mm ²	1
212000	Coax RG58-59-62-71	1
212007	MC3	1
212008	MC4	1

Elektrik crimper

HAUPA electric crimper

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

- insulated cable lugs to 6 mm²/10 AWG
- Tubular cable lugs, solderl. terminals to 10 mm²/8 AWG
- Flat tab terminals to 6 mm²/10 AWG
- Wire end sleeves to 50 mm²/1 AWG

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

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

Mode 2: allows the user to fix the terminal on the cable by actuating the foot switch once. To finish the crimping process, he presses down the foot switch once again. Mode 2 is used for more complex terminals. The onset of compression force can be adjusted for each new terminal to satisfy crimp integrity. That way, damage to dies and terminals can be minimised. Simply press a button to select the opening for each die. Since some female terminals are more difficult to crimp, a moveable locator can be utilised to ensure proper crimping. Various standard dies are available, as well as dies designed to customer specifications.

Technical Data Art. No. 217050: Dimensions (w x h x d): 140 x 220 x 320 mm
Weight: 10 kg / Weight of foot pedal: 1.2 kg / Max. press capacity: 10 kN
Pressing time: 1 s / Counter: -digit LCD display /
Mains connection: 30 V/50 Hz (120 V/60 Hz) / Power consumption: 160 VA



Art. no.	mm ²	kg	PU
217050	6-50	10,000	1

Dies for elektro crimper 217050

217052	Rolled contacts 0.14-1/1,5/2.5/4 mm ²	1
217056	Rolled contacts 0.1-1.5 mm ²	1
217058	Rolled crimp contacts 0.1-1.5 mm ²	1
217060	Rolled crimp contacts 0.5-6 mm ²	1
217062	End sleeves 0.25-6 mm ²	1
217064	Insolated terminals 0.5-6 mm ² symetric	1
217066	Insolated terminals 0.5-6 mm ² asymmetric	1
217068	Tube terminals 0.34-2.5 mm ²	1
217070	Tube terminals "super flex" 4-10 mm ²	1
217072	Tube terminals "standard" 4-10 mm ²	1
217074	Crimping terminals 4-10 mm ²	1
217076	Crimping terminals 0.5-10 mm ²	1
217078	Protection cover to 21 70 56, 21 70 60	1
217080	Protection cover to 21 70 70, 21 70 72, 21 70 74, 21 70 76	1
217082	Protection cover to 21 70 68	1
217084	Protection cover to 21 70 62	1
217086	Protection cover to 21 70 64, 21 70 66	1
217088	Locator to 21 70 60, socket sleeves 6.3 mm	1
217090	Locator to 21 70 56, 21 70 58, 21 70 60, socket sleeves 4.8 mm	1
217092	Locator to 21 70 56, socket sleeves (female) 2.8 x 5 mm	1
217094	Locator to 21 70 56, socket sleeves (female) 2.8 x 6 mm	1
217096	Locator to 21 70 60, socket (male) 6.3 mm	1
217098	Locator to 21 70 60, socket (male) 6.3 mm HN	1

INFO

Crimping pliers for uninsulated tubular cable lugs

1. Choosing the connector

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

2. Stripping

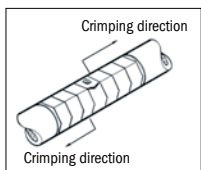
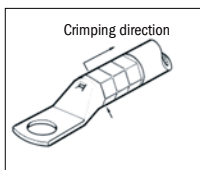
Before notching, the cable must be stripped according to the insertion length (+10% due to change in length of the crimping sleeve).

3. Cleaning

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

4. Assembly

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



Tube cable lugs



DIN cable lugs



Butt connectors, DIN



Crimping pliers

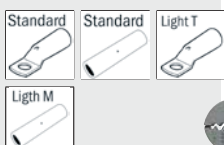
Lever translated version for better transmission of force, with **mandrel pressing**, for standard tubular cable lugs and connectors. Particularly well suited to nickel tubular cable lugs and connectors



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

Crimping pliers

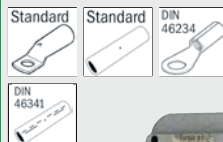
Lever translated version for better transmission of force, with **mandrel pressing**, for standard tubular cable lugs and connectors. Particularly well suited to nickel tubular cable lugs and connectors



Art. no.	mm ²	kg	PU
210830	0,75-16 standard	0,574	1

Crimping pliers

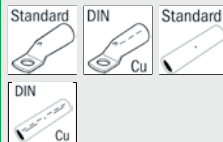
with punch and adjustable screw for different cross-sections, for standard tube terminals and connectors, **mandrel shape pressing**



Art. no.	mm ²	kg	PU
210791	10-120	3,040	1

Crimping pliers

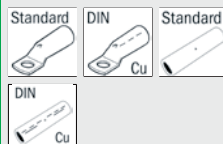
with built-in rotatable profile disk, **hexagon pressing**



Art. no.	mm ²	kg	PU
210805	6-50 standard	1,351	1
210805 K	6-50 DIN	1,352	1

Crimping pliers

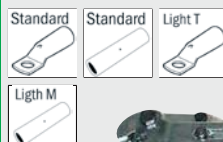
with built-in rotatable profile disk, **hexagon pressing**



Art. no.	mm ²	kg	PU
210850	10-120 standard	3,970	1
210853	10-120 DIN	4,016	1

Crimping pliers

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



Art. no.	mm ²	kg	PU
210834	6-50	2,588	1
210836	50-120	5,280	1
210838	120-240	5,200	1
210840	185-400	5,200	1

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INFO

Mechanical crimping pliers for tubular cable lugs

Mechanical crimping tool characterised by its compact design. It is possible to make crimps even in confined working conditions, where conventional large tools cannot be used.

The mature construction of the drive has proven its reliability many times over in practice. In this manual crimping tool very little wear can be seen even after many years of use, this is decisive for the reliable repetition of the required crimping depth. After all, today's highly stressed crimped connections only comply with safety regulations when the required electrical and mechanical values are achieved over long periods.

Another safety aspect is that the crimping tool can only be detached from the crimped lug when the required crimping depth has been reached. By turning the wheel on the handle in an anti-clockwise direction the crimping inset can be set in position on the lug. Only then does the actual crimping process begin with the one-hand lever.

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

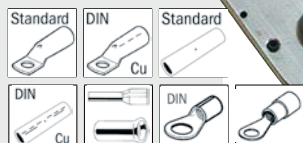
Crimping pliers

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



Product-specific features

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



Art. no.	mm ²	kg	PU
215000	6-50	1,531	1

Metal box

for storing of crimping pliers and dies



Art. no.	kg	PU
215002	0,934	1

Crimping dies for 215000

for crimping terminals and connectors, standard range, **WM pressing**



Art. no.	mm ²	kg	PU
215004	10	0,041	1
215006	16	0,040	1
215008	25	0,037	1
215010	35	0,036	1
215012	50	0,033	1

Crimping dies for 215000

for crimping terminals DIN, **hexagon shape**



Art. no.	mm ²	Cu	Al	ld.	kg	PU
215030	6	6		5	0,100	1
215032	10	10		6	0,100	1
215034	16	16	10	8	0,100	1
215036	25	25	16	10	0,150	1
215038	35	35	25	12	0,150	1
215040	50	50	35	14	0,150	1

Crimping dies for 215000

noninsulated crimping terminals, **mandrel shape pressing**, DIN 46234



Art. no.	mm ²	kg	PU
215014	6	0,018	1
215016	10	0,190	1
215018	16	0,190	1
215020	25	0,190	1
215022	35	0,020	1
215024	10-35	0,020	1

Crimping dies for 215000

noninsulated crimping terminals, **mandrel shape pressing**, DIN 46234



Art. no.	mm ²	kg	PU
215026	10	0,039	1
215028	16	0,039	1

Crimping dies for 215000

for end sleeves, **trapezoid pressing**



Art. no.	mm ²	kg	PU
215042	6	0,150	1
215044	10	0,150	1
215046	16	0,150	1
215048	25	0,200	1
215050	35	0,200	1

INFO

Mechanical crimping pliers for tubular cable lugs

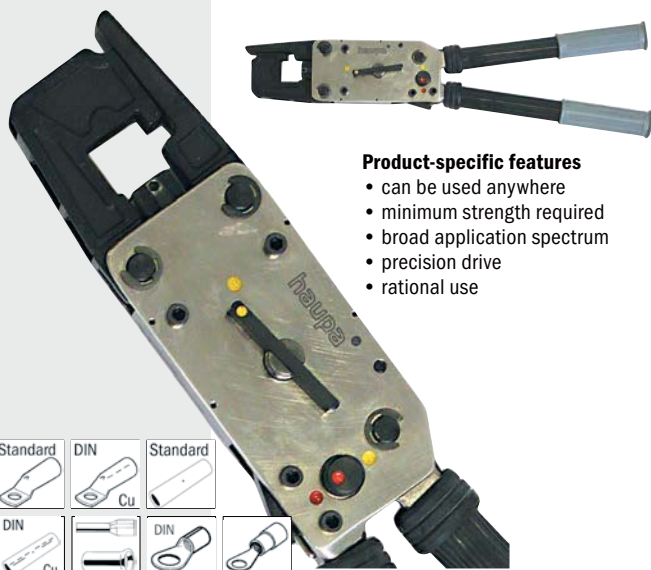
These mechanical manual crimping pliers are modern, high performance tools. They can be used anywhere in the wide range of solder-free connection technology thanks to a comprehensive range of crimping dies. Crimping stroke and pressure (to approx. 5.5 t) are created by several hand lever movements. The manual force required is low due to the high efficiency of the system. The press and the connecting parts can only be separated from one another when the crimp is complete. This drive system ensures that the required crimping depth is always achieved. The hinged cover guarantees comfortable handling of the press, even in awkward-to-reach positions such as in control cabinets.

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

Only then does the actual crimping process begin with the hand lever. When the required crimping depth has been reached the press releases pressure spontaneously and the hinged cover can be opened to remove the connector. The crimping process can be interrupted if an error has been made in the choice of the inset, cable lug or cable. To do this swing the hand lever completely out, depress the ratchet and turn the forward feed lever backwards.

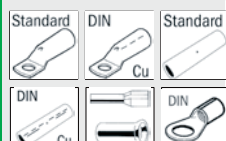
Crimping pliers

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



Product-specific features

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



Art. no.	mm ²	kg	PU
215100	6-120	2,100	1

Metal box

for storing of crimping pliers and dies



Art. no.	kg	PU
215102	1,700	1

Crimping dies for 215100

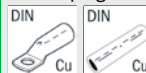
for crimping terminals and connectors, standard range, **WM pressing**



Art. no.	mm ²	kg	PU
215104	10/70	0,130	1
215106	16/35	0,132	1
215108	25/50	0,126	1
215110	95	0,138	1
215112	120	0,136	1

Crimping dies for 215100

for crimping terminals DIN, **hexagonal pressing**



Art. no.	mm ²	Cu	Al	ld.	kg	PU
215142	10/70	70	50	6-16	0,128	1
215144	16/35	35	25	8-12	0,130	1
215146	25/50	50	35	10-14	0,130	1
215148	95	95	70	18	0,130	1
215150	120	120		20	0,130	1

Crimping dies for 215100

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



Art. no.	mm ²	kg	PU
215114	6-70	0,080	1
215116	10-35	0,060	1
215118	16-50	0,055	1
215120	6-50	0,150	1
215122	70	0,150	1

Crimping dies for 215100

for insulated crimping terminals, **oval pressing**



Art. no.	mm ²	kg	PU
215124	10	0,147	1
215126	16	0,152	1
215128	25	0,153	1
215130	35	0,154	1

Crimping dies for 215100

for rounding of square copper and aluminium



Art. no.	mm ²	kg	PU
215152	25-35	0,155	1
215154	35-70	0,150	1
215156	95	0,150	1

Crimping dies for 215100

for end sleeves, **trapezoid pressing**



Art. no.	mm ²	kg	PU
215164	25	0,059	1
215166	35	0,059	1
215168	50	0,059	1
215170	70	0,059	1
215172	95	0,059	1

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INFO

Mechanical crimping pliers for tubular cable lugs

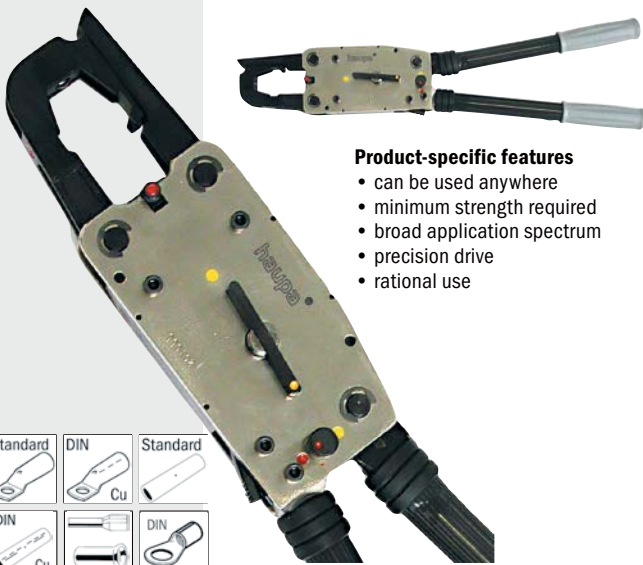
In this hand press the crimping stroke is produced by a number of hand lever movements. The transport ratchet starts the eccentric wheel moving and con-rods convert the eccentric turning motion into a straight-line stroke of the guide that runs in grooves.

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

By turning the wheel on the handle in an anti-clockwise direction the crimping inset can be transported directly to the installation on the connecting part. Only then does the actual crimping process begin with the hand lever. When the required crimping depth has been reached the press releases the pressure spontaneously and the hinged cover can be opened to remove the connector. The crimping process can be interrupted if an error has been made in the classification of the inset, cable lug or cable. To do this swing the hand lever completely out, depress the ratchet and turn the forward feed lever backwards. The quality of the crimped connection is dependent on the choice of cable lug, the crimp inset and the correct choice of cable cross section.

Crimping pliers

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



Product-specific features

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



Art. no.	mm ²	kg	PU
215200	10-240	4,500	1

Metal box

for storing of crimping pliers and dies



Art. no.	kg	PU
215202	3,700	1

Crimping dies for 215200

for crimping terminals and connectors, standard range, **WM pressing**



Art. no.	mm ²	kg	PU
215204	10-25	0,221	1
215206	16-35	0,320	1
215208	50	0,349	1
215210	70	0,331	1
215212	95	0,330	1
215201	120	2,486	1
215203	150	0,308	1
215205	185	0,317	1
215207	240	0,300	1

Crimping dies for 215200

for crimping terminals DIN, **hexagon pressing**



Art. no.	mm ²	Al	ld.	kg	PU
215230	10		6	0,350	1
215232	16		8	0,330	1
215234	25	16	10	0,328	1
215236	35	25	12	0,330	1
215238	50	35	14	0,326	1
215240	70	50	16	0,326	1
215242	95	70	18	0,321	1
215244	120		20	0,300	1
215246	150	120	22	0,305	1
215248	185	150	25	0,305	1
215250	240	185	28	0,290	1

Crimping dies for 215200

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



Art. no.	mm ²	kg	PU
215214	10-70	0,178	1
215216	95-150	0,169	1
215218	10-70	0,163	1
215220	16-35	0,170	1
215222	25-50	0,163	1
215224	95	0,161	1
215226	120	0,152	1
215228	150	0,144	1

Crimping dies for 215200

for end sleeves, **trapezoid pressing**



Art. no.	mm ²	kg	PU
215252	16	0,400	1
215254	25	0,380	1
215256	35	0,381	1
215258	50	0,361	1
215260	70	0,400	1
215262	95	0,363	1
215264	120	0,401	1

INFO

Mechanical crimping pliers for tubular cable lugs

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

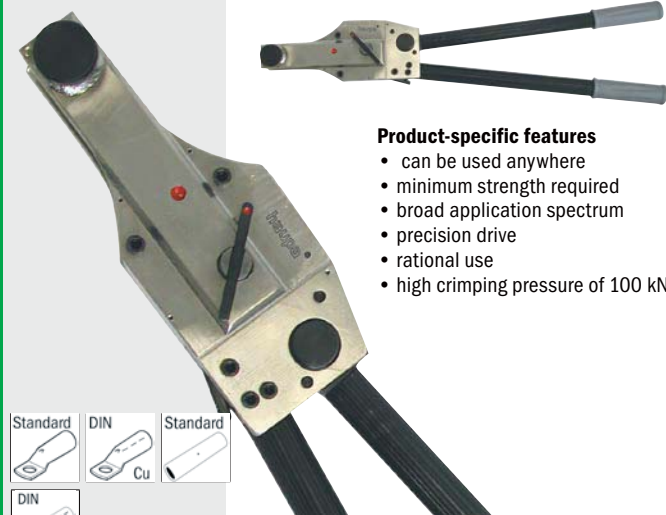
Crimps can also be made in larger cable cross sections without much effort on the part of the user, because the outer notches of the eccentric drive only move one notch at a time through the hand lever movement. In other words, the required pressure is also created from a specific number of individual strokes. The device is characterised by its manageability although it reaches the enormous pressure of 100 kN.

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

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

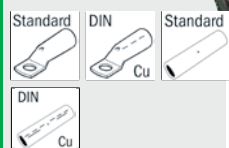
Crimping pliers

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



Product-specific features

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



Art. no.	mm ²	kg	PU
215300	10-400	4,800	1

Crimping dies for 215300

for crimping terminals and connectors, standard range, **WM pressing**



Art. no.	mm ²	kg	PU
215302	10-25	0,200	1
215304	16-35	0,200	1
215306	50	0,200	1
215308	70	0,200	1
215310	95	0,208	1
215312	120	0,196	1
215314	150	0,195	1
215316	185	0,237	1
215318	240	0,229	1
215320	300	0,231	1
215322	400	0,200	1

Crimping dies for 215300

for crimping terminals DIN and AL-terminals, **hexagon pressing**



Art. no.	mm ²	ld.	kg	PU
215324	10	6	0,211	1
215326	16	8	0,210	1
215328	25	10	0,211	1
215330	35	12	0,207	1
215332	50	14	0,202	1
215334	70	16	0,203	1
215336	95	18	0,196	1
215338	120	20	0,195	1
215340	150	22	0,200	1
215342	185	25	0,222	1

Crimping dies for 215300

for rounding of square copper and aluminium



Art. no.	mm ²	kg	PU
215348	25-35	0,444	1
215350	35-50	0,445	1
215352	50-70	0,200	1
215354	70-95	0,474	1
215356	95-120	0,200	1
215358	120-150	0,200	1
215360	150-185	0,200	1
215362	185-240	0,446	1
215364	240-300	0,200	1

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Hydraulic punching tools



Hydraulic punching tools

Electro-hydraulic punching tool „AS-6“

in SysCon stacking box including 1 charger, 1 battery, 1 carry strap, without inserts.

Extent of supply: 1 hydraulic punch: 1 connecting rod 3/8-24 UNF (article no. 217660), 1 connecting rod 3/4-16 UNF (article no. 217662), 1 adapter (article no. 217664), 1 spacer bushing (article no. 217666), 1 SysCon stacking box.

Advantages:

- Head can be rotated by 360°
- Flexible aluminium head
- Automatic end switch off
- Non-slip handle area
- Slim and compact construction
- LED to illuminate the area you are working in
- Li-ion technology

Punching capacity:

Shaped holes 138 x 138 mm (ST37 3 mm)
Round holes 150 mm (ST37 3 mm) / 63 mm (VA 2 mm)

Technical data:

- Pressing force: 60 kN
- Working pressure: 600 bar
- Battery charge time: 60 minutes
- Battery voltage: 14,4 V
- Battery capacity: 3 Ah
- Weight: 3.64 kg
- Weight of set: 4.7 kg



Art. no.	kg	PU
217600	4,700	1

SysCon set metric

Content: 8 punches

- 1 220372 ABS plastic box „SysCon M“ (insert including)
- 1 270600 Electro-hydraulic punching tool „AS-6“
- 1 217610 M16
- 1 217612 M20
- 1 217614 M25
- 1 217616 M32
- 1 217618 M40
- 1 217620 M50
- 1 217622 M63
- 1 217636 PG16



Art. no.	kg	PU
217600/M	4,300	1

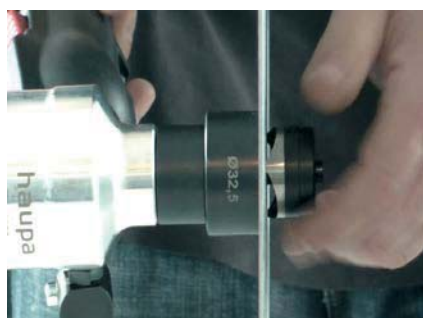
SysCon set PG

Content: 9 punches

- 1 220372 ABS plastic box „SysCon M“ (insert including)
- 1 217600 Electro-hydraulic punching tool „AS-6“
- 1 217630 PG9
- 1 217632 PG11
- 1 217634 PG13,5
- 1 217636 PG16
- 1 217638 PG21
- 1 217640 PG29
- 1 217642 PG36
- 1 217644 PG42
- 1 217646 PG48



Art. no.	kg	PU
217600/PG	4,300	1



Hydraulic punching tools

Hydraulic hand-punching tool „HS-8“

Punches precise holes with almost no burring. Ideal for fast, frontal punching of control panels.

Extent of supply: 1 hydraulic hand punch, 1 connecting rod 3/8-24 UNF (article no. 217660), 1 connecting rod 3/4-16 UNF (article no. 217662), 1 adapter (article no. 217664), 1 spacer bushing (article no. 217666), 1 transport case.

Punching performance: Steel sheet of up to a maximum of 3 mm

- Pressing force: 80 kN
- Length: 308 mm
- Weight: 2,4 kg
- Weight Set: 3,8 kg



Art. no.	kg	PU
217604	3,800	1

Hydraulic hand-punch-cutter „HS-6“

Punches accurate slugs nearly free of burs. Usable for building and maintaining control boxes, for car retrofitting and for sanitary application.

Extent of supply: 1 hydraulic punching tool, 1 rod 3/8-24 UNF (art. 217660), 1 rod 3/4-16 UNF (art. 217662), 1 adapter (art. 217664), 1 sleeve (art. 217666), 1 plastic case with insert.

Punching capacity: Steel plates up to max. 3 mm

- Pressing force: 60 kN
- Length: 230 mm
- Weight: 2,4 kg
- Weight Set: 3,8 kg



Art. no.	kg	PU
217602	3,800	1

Punching dies, metric

- ST37, 3 mm
- VA 2 mm



Art. no.	∅		kg	PU
217610	16,5	ISO 16	0,070	1
217612	20,5	ISO 20	0,090	1
217614	25,5	ISO 25	0,150	1
217616	32,5	ISO 32	0,220	1
217618	40,5	ISO 40	0,900	1
217620	50,5	ISO 50	0,640	1
217622	63,5	ISO 63	0,950	1

Punching dies, PG

- ST37, 3 mm
- VA 2 mm



Art. no.	∅		kg	PU
217630	15,2	PG9	0,060	1
217632	18,6	PG11	0,084	1
217634	20,4	PG13,5	0,091	1
217636	22,5	PG16	0,120	1
217638	28,3	PG21	0,170	1
217640	37	PG29	0,330	1
217642	47	PG36	0,536	1
217644	54	PG42	0,731	1
217646	60	PG48	0,896	1

Punching dies, square



Art. no.	height	kg	PU
217650	46	1,862	1
217652	68	1,500	1
217654	92	2,000	1

Connecting rod

art. 217660 - 3/8-24 UNF
art. 217662 - 3/4-16 UNF



Art. no.		kg	PU
217660	1	0,040	1
217662	2	0,203	1

Adapter

for connecting rod art. 217660

- UNF



Art. no.	kg	PU
217664	0,100	1

Spacer bushing



Art. no.	kg	PU
217666	0,100	1

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Punch and bending centre

Basic unit

Basic unit to accommodate bending, hole-making, cutting and cranking tools. The processing of lamellar copper rails is possible! Hydraulic tool for connection to a hydraulic pump with 700 bar (10,000 PSI).

The universal tool system is particularly suited for use in workshops and on building sites. Copper and aluminium rails can be processed up to dimension of 12 x 120 mm. The changing of the individual tools is carried out in seconds thanks to the user-friendly construction. The compact construction and light weight enable transportation in any car.

Bending:

Thanks to an integrated proximity switch a 100% repeat accuracy is achieved. The maximum bending angle is 110°.

Hole-making:

The height-adjustable table with side stopper makes working easier. Marking out and measuring is not necessary. Holes from 6.5 to 21.0 mm in diameter can be punched.

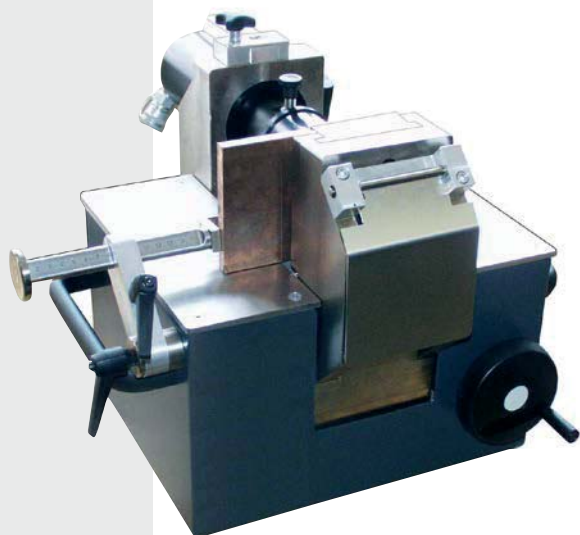
Slotted holes up to 17 x 20 mm. With the hole tools holes can be made in lamellar copper rails and grounding bands.

Cutting:

Our cutting blade geometry enables clean and burr-free cutting.

Cranking:

The offsetting (stepped bending) by a material thickness is carried out in a single process.



Art. no.	kg	PU
216770	51,000	1

Hole-making tools

For punching round and slotted holes.

- Maximum material thickness: 12 mm
- Maximum diameter: 21 mm
- Maximum slotted hole: 17 x 20 mm

216776:

Hole tool for solid copper and aluminium rails

216777:

Hole-making tool for solid copper and aluminium rails as well as for laminated copper rails and grounding bands



Art. no.	kg	PU
216776	4,300	1
216777	4,300	1

Hole inserts for round holes

For both hole-making tools, the following diameters can be supplied

Art. no.	Ø		kg	PU
216778	6,5	M6 > 216776	1,500	1
216778/L	6,5	M6 > 216777	1,500	1
216779	9,0	M8 > 216776	1,500	1
216779/L	9,0	M8 > 216777	1,500	1
216781,50C	10,5	M8 > 216776	1,500	1
216781,500	10,5	M8 > 216777	1,500	1
216781	11,0	M10 > 216776	1,500	1
216781/L	11,0	M10 > 216777	1,500	1
216782	12,7	M10 > 216776	1,500	1
216782/L	12,7	M10 > 216777	1,500	1
216783	13,0	M12 > 216776	1,500	1
216783/L	13,0	M12 > 216777	1,500	1
216784	17,0	M16 > 216776	1,500	1
216784/L	17,0	M16 > 216777	1,500	1
216785	21,0	M20 > 216776	1,500	1
216785/L	21,0	M20 > 216777	1,500	1

Hole inserts for slotted holes

For both hole-making tools, the following diameters can be supplied

Art. no.	Ø		kg	PU
216786	9 x 18	M8 > 216776	1,500	1
216786/L	9 x 18	M8 > 216777	1,500	1
216787	11 x 20	M10 > 216776	1,500	1
216787/L	11 x 20	M10 > 216777	1,500	1
216788	13 x 20	M12 > 216776	1,500	1
216788/L	13 x 20	M12 > 216777	1,500	1
216789	17 x 20	M16 > 216776	1,500	1
216789/L	17 x 20	M16 > 216777	1,500	1



Bending tool

For bending of solid copper or aluminium rails up to 12 x 120 mm. The bending matrix suits all bending radii



Art. no.	∅	kg	PU
216771	5	4,000	1
216772	8	4,100	1
216773	10	4,200	1
216774	20	4,500	1
216775	universal	3,200	1

Cutting tool

for separating solid copper and aluminium rails up to 12 x 120 mm



Art. no.	mm	kg	PU
216790	12 x 120	5,500	1

Cutting tool for lamellar rails

for separating lamellar rails made from copper, maximum dimensions: 12 x 120 mm

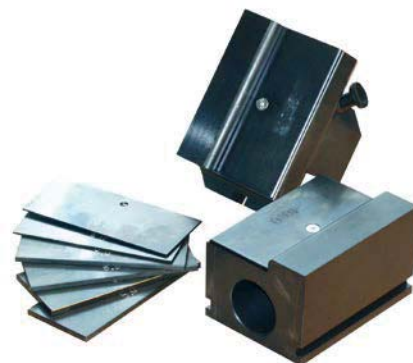


Art. no.	mm	kg	PU
216791	12 x 120	9,000	1

For electro-hydraulic pump art. 216358 (battery/220V) please look at page 64.

Cranking tool for stepped bending of power rails

For creating a material offset in rail thicknesses on a length of just 30 mm. Possible offset 5, 6, 8, 10 and 12 mm



Art. no.	kg	PU
216792	10,000	1

Tool cases

Stable metal sheet case for accommodation of hole-making tool with inserts (1) or two tools (2)

Art. no.		kg	PU
216793	1	2,000	1
216794	2	2,000	1



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42853 Remscheid; Germany



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















18















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Hydraulic crimping tools



Pictos cable connectors

	End sleeves
	TWIN end sleeves
	Insulated crimp-style cable lugs
	Insulated shrink connectors
	non-insulated cable lugs
	Socket sleeves (female)
	Socket sleeves (female) with cable stop
	Coaxial connectors
	for twisted contacts and connectors
	for rolled contacts and connectors
	for D-Sub connectors
	Multi-contact M3
	Multi-contact M4
	Western connectors for modular connectors
	Stewart connectors for modular connectors
	Hirose connectors for modular connectors

	non-insulated cable lugs DIN 46234
	non-insulated connectors DIN 46341
	standard tubular terminals
	DIN tubular terminals CU
	DIN tubular terminals AL
	standard tubular terminals, light
	Nylon-insulated tubular cable terminals
	standard connectors CU
	DIN connectors CU
	DIN connectors AL
	standard connectors, light
	F-type
	Deep indent connectors
	Four thorn pressing without inserts

Pictos press-profiles

Technical notes for the various pressing formats for the pressing of cables using HAUPA cable lugs and connectors.

The following pressing formats are available:



Hexagonal pressing

for pressing standard CU tubular terminals and connectors, tubular terminals for switching device connections, pressing cable lugs and connectors DIN 46235/DIN 46267, Al pressing cable lugs and connectors and end sleeves



Mandrel shape pressing

for pressing of standard CU tubular terminals and connectors, tubular terminals for switching device connections, crimp-style cable lugs DIN 46234 and pin cable lugs DIN 46230, insulated crimp-style cable lugs, conduit terminals for fine-wired conductors, nickel tubular terminals and connectors



Oval pressing

for pressing of dual pressing cable lugs, C clamps, insulated tubular terminals and connectors, insulated pin cable lugs, press connectors DIN 48217, insulated cable connections



Trapezoidal pressing

for pressing of end sleeves ends and twin end sleeves



Square pressing

for pressing of end sleeves ends and twin end sleeves



Hexagonal pressing

for pressing of end sleeves



Square pressing

Multi-contact
Application area:
Photovoltaics, twisted contacts



Roll pressing

for pressing of brass cable lugs, D-Sub, MC4



WM pressing

for pressing of standard tubular terminals



Round pressing

of sector-shaped conductors 90° and 120°



Four thorn pressing

for pressing standard tubular terminals and connectors - also on sealed conductors - F-type tubular terminals and connectors Light cable lugs and connectors Tubular terminals = Switching device connections

Battery powered crimping tools

Battery powered crimping tool „SC-2“

for interchangeable crimping headstock, crimping head 180° swivelling, manual return flow after perfect pressure.

Extent of supply: 1 crimping tool, 1 charger, 1 battery, 1 strap, in SysCon stacking box, without dies.

- Pressing force in kN: 20 kN
- Working pressure in bar: 700
- Opening/ Hub: 9 mm
- Pressing time, battery-operated in seconds: 2
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 14,4 V, 3 Ah
- Weight in kg without batterie: 2,1
- Weight of set in kg with batterie: 7,9



Crimping dies for insulated crimp cable lugs

for insulated crimp cable lugs, oval pressing



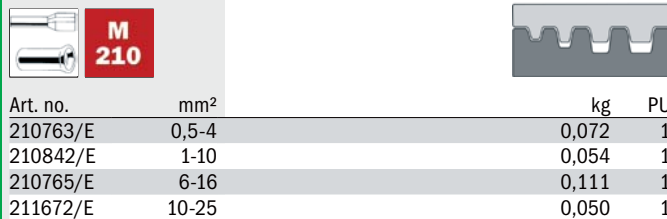
Crimping dies for uninsulated terminals

for uninsulated terminals, mandrel shape pressing



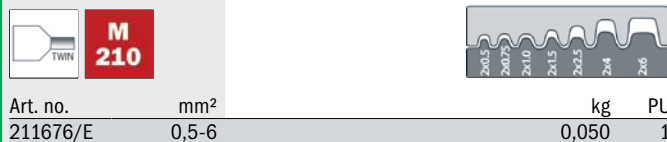
Crimping dies for end sleeves

for end sleeves, trapezoid pressing



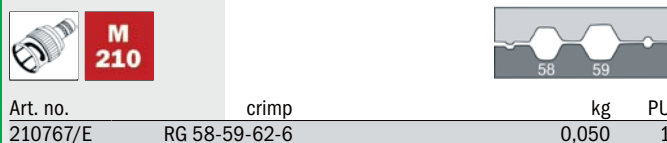
Crimping dies for TWIN end sleeves

for TWIN-end sleeves, trapezoid pressing



Crimping dies for coaxial cable

for coaxial cable, hexagon pressing



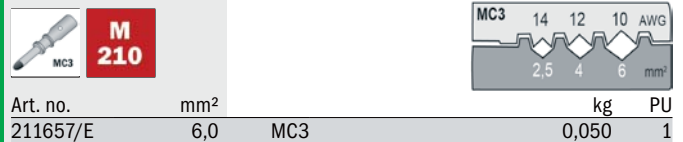
Crimping dies for flat connectors

for flat connectors, uninsulated open brass cable lugs, roll pressing



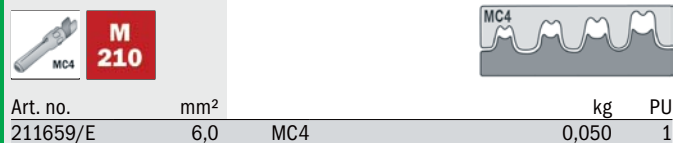
Crimping dies for Photovoltaik MC3

for „multi-contact“ contacts



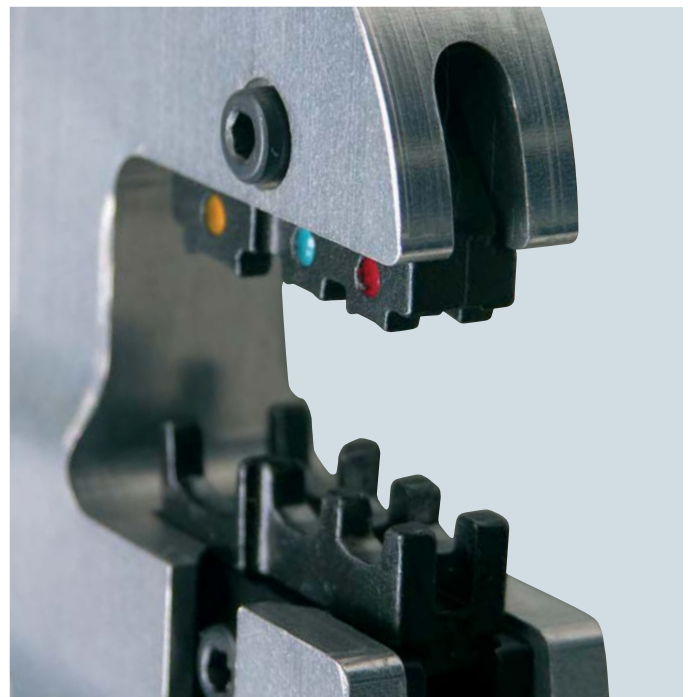
Crimping dies for Photovoltaik MC4

for „multi-contact“ contacts



Crimping dies for cable lugs / end sleeves

for end sleeves 0,5 - 6 mm² / cable lugs 0,5 - 2,5 mm²



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Battery powered crimping tools

Battery powered crimping tool

„SL-2“

Hydraulic for interchangeable crimping headstock, manual return flow after perfect pressure.

Extent of supply: 1 crimping tool, 1 charger, 1 battery, 1 strap, in SysCon stacking box, without crimping headstock.

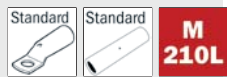
- Pressing force in kN: 20 kN
- Working pressure in bar: 700
- Opening/ Hub: 9 mm
- Pressing time, battery-operated in seconds: 2
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 14,4 V, 3 Ah
- Weight in kg without batterie: 2,1
- Weight of set in kg with batterie: 7,0



Art. no.	mm ²	kg	PU
217500	0,5-95	7,000	1

Crimping headstock

for uninsulated terminals, standard series terminals and connectors, stainless steel connectors, nickel connectors, **mandrel shape pressing**



Art. no.	mm ²	kg	PU
210830/E	0,5-16	0,050	1

Crimping headstock

for insulated crimp cable lugs, **oval pressing**



Art. no.	mm ²	kg	PU
210827/E	10-16	0,050	1

Crimping headstock

for end sleeves, **trapezoid pressing**



Art. no.	mm ²	kg	PU
210788/E	10-50	0,050	1

Hydraulic hand pliers „HHs-6“

Crimping head can be rotated by 180°, manual return after completed pressing, light and compact construction in black plastic case, without dies.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Pressing width: slim
- Cable lugs: standard Cu 10-185 • DIN Cu 10-185
- Connectors: standard Cu 10-185 • DIN Cu 10-185



Art. no.	mm ²	kg	PU
215765	10-185	7,9	1

Battery powered crimping tool

„SHs-6“

for interchangeable crimping headstock, crimping head 180° swivelling, manual return flow after perfect pressure.

Extent of supply: 1 crimping tool, 1 charger, 1 battery, 1 strap, in light plastic box, without crimping headstock.

- Pressing force in kN: 60 kN • Working pressure in bar: 700
- Head can be opened • Pressing width: slim
- Cable lugs: standard Cu 10-185 • DIN Cu 10-185
- Connectors: standard Cu 10-185 • DIN Cu 10-185
- Pressing time, battery-operated in seconds: 5
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 14,4 V, 3 Ah
- Weight in kg without batterie: 2,1
- Weight of set in kg with batterie: 7,9



Art. no.	mm ²	kg	PU
215770	10-185	7,900	1

Crimping dies standard

standard copper tube terminals and connectors, **hexagonal pressing**



Art. no.	mm ²	PW	kg	PU
215641	10/16	5	0,157	1
215642	25/35	5	0,155	1
215643	50/70	5	0,150	1
215644	95/120	5	0,145	1
215645	150	5	0,159	1
215646	185	5	0,156	1
215648	240	5	0,156	1

Crimping dies DIN

DIN Cu/Al tube terminals and connectors, **hexagonal pressing**



Art. no.	mm ²	PW	ld.	kg	PU
215650	10/16	5	6/8	0,155	1
215651	25/35	5	10/12	0,151	1
215652	50/70	5	14/16	0,149	1
215653	95/120	5	18/20	0,129	1
215654	150	5	22	0,145	1
215655	185	5	25	0,147	1

Battery powered crimping tools

Battery powered crimping tool „SH-6“

Hydraulic for interchangeable dies, crimping head 180° swivelling, with fast opening, manual return flow after perfect pressure.

Extent of supply: 1 crimping tool, 1 charger, 1 battery, 1 strap, in SysCon stacking box without dies.

- Pressing force in kN: 60 kN
- Working pressure in bar: 700
- Head can be opened
- Opening/ Hub: 17 mm
- Pressing width: slim
- Cable lugs: standard Cu 10-240 • DIN Cu 10-240 • DIN Al 16-185
- Connectors: Cu 10-240 • DIN Cu 10-240 • DIN Al 16-185
- Pressing time, battery-operated in seconds: ca. 5
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 14,4 V, 3 Ah
- Weight in kg without batterie: 2,4
- Weight of set in kg with batterie: 7,9



Art. no.	mm ²	kg	PU
215881	10-240	7,900	1

Hydraulic hand pliers „HH-6“

Crimping head can be rotated by 180°, manual return after completed pressing, light and compact construction in black plastic case, without dies.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Opening / Hub: 17 mm
- Head can be opened
- Pressing width: slim
- Cable lugs: standard Cu 10-240 • DIN Cu 10-240 • DIN Al 16-185
- Connectors: standard Cu 10-240 • DIN Cu 10-240 • DIN Al 16-185
- Dual-piston pump
- Weight in kg: 3,0
- Weight of set in kg: 4,5



Art. no.	TL	mm ²	kg	PU
215800	370	10-240	4,500	1

Battery powered crimping tool „AH-6“

2 step hydraulic for replaceable pressing dies, crimping head can be rotated by 180°, can be opened, with quick opening, manual return after completed pressing, LED to check battery status.

Included in delivery: 1 crimping tool, 1 charger, 2 batteries, 1 carry strap, in plastic case, without dies.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Opening/ Hub: 17 mm
- Head can be opened
- Pressing width: slim
- Cable lugs: standard Cu 10-240 • DIN Cu 10-240 • DIN Al 16-185
- Connectors: standard Cu 10-240 • DIN Cu 10-240 • DIN Al 16-185
- Pressing time, battery-operated in seconds: 6
- Battery charging time in minutes: 60
- Battery type: NiMH, 14,4 V, 3 Ah
- Dual-piston pump
- Weight in kg: 3,5
- Weight of set in kg: 8,5



Art. no.	TL	mm ²	kg	PU
215880	335	10-240	8,500	1

Crimping dies

standard copper tube terminals and connectors, **hexagonal pressing**



Art. no.	mm ²	kg	PU
215852	10-16	0,157	1
215854	25-35	0,155	1
215856	50-70	0,150	1
215858	95-120	0,145	1
215859	150	0,159	1
215860	185	0,156	1
215861	240	0,156	1

Crimping dies DIN Cu + Al

DIN Cu/Al tube terminals and connectors, **hexagonal pressing**



Art. no.	mm ²	Al	Id.	kg	PU
215862	10-16		6-8	0,155	1
215864	25-35	16-25	10-12	0,151	1
215866	50-70	35-50	14-16	0,149	1
215868	95-120	70	18-20	0,129	1
215869	150	95-120	22	0,145	1
215870	185	150	25	0,147	1
215872	240	185	28	0,114	1

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Battery powered crimping tools

SysCon Smart battery powered crimping tool „S0-6“

Hydraulic for interchangeable dies, crimping head 180° swivelling, Head can be opened, manual return flow after perfect pressure.

Extent of supply: 1 crimping tool, 1 charger, 1 battery, 1 strap, in SysCon stacking box without dies.

Content:

- 1 220372 ABS plastic box „SysCon M“ (insert included)
- 1 216801 Battery powered crimping tool „S0-6“

- Pressing force in kN: 60 kN
- Working pressure in bar: 700
- Head can be opened
- Opening/ Hub: 17 mm
- Pressing width: slim
- Pressing time, battery-operated in seconds: ca. 5
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 14,4 V, 3 Ah
- Cable lugs: standard Cu 6-300 • DIN Cu 6-300 • DIN Al 16-240
- Connectors: Cu 6-300 • DIN Cu 6-300 • DIN Al 16-240

Video 216801



Art. no.	mm ²	kg	PU
216801	6-300	7,900	1

Hydraulic hand pliers „HO-6“

Crimping head can be rotated by 180°, manual return after completed pressing, light and compact construction in black plastic case, without dies.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Opening / Hub: 17 mm
- Pressing width: slim
- Cable lugs: standard Cu 6-300 • DIN Cu 6-300 • DIN Al 16-240
- Connectors: standard Cu 6-300 • DIN Cu 6-300 • DIN Al 16-240
- Dual-piston pump
- Weight in kg: 3,5
- Weight of set in kg: 5,0



Art. no.	TL	mm ²	kg	PU
216802	600	6-300	5	1

Battery powered crimping tool „A0-6“

2 step hydraulic for replaceable pressing dies, crimping head can be rotated by 180°, can be opened, with quick opening, manual return after completed pressing, LED to check battery status.

Included in delivery: 1 crimping tool, 1 charger, 2 batteries, 1 carry strap, in plastic case, without dies.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Opening/ Hub: 17 mm
- Head can be opened
- Pressing width: slim
- Cable lugs: standard Cu 6-300 • DIN Cu 6-300 • DIN Al 16-240
- Connectors: standard Cu 6-300 • DIN Cu 6-300 • DIN Al 16-240
- Pressing time, battery-operated in seconds: 4
- Battery charging time in minutes: 60
- Battery type: NiMH, 14,4 V, 3 Ah
- Dual-piston pump
- Weight in kg: 4,5
- Weight of set in kg: 9,5

Video 216800



Art. no.	TL	mm ²	kg	PU
216800	330	6-300	9,500	1

Hand pliers „MO-6“ for exchangeable dies

Extent of supply: 1 crimping tool, in metal suitcase.

- Crimping range cable lugs: Cu 6-300 • DIN Cu 6-300 / DIN Al 16-240
- Crimping range connectors: Cu 6-300 • DIN Cu 6-300 / DIN Al 16-240



Art. no.	mm ²	kg	PU
216804	10-300	11,800	1

Crimping headstock „KO-6“

in plastic case, without dies.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Opening/ Hub: 17 mm
- Pressing width: slim
- Cable lugs: standard Cu 6-300 • DIN Cu 6-300 • DIN Al 16-240
- Connectors: standard Cu 6-300 • DIN Cu 6-300 • DIN Al 16-240
- Quick coupling
- Weight in kg: 3,2
- Weight of set in kg: 4,2



Art. no.	TL	mm ²	kg	PU
216807	180	6-300	4,200	1

Dies for terminals and connectors standard



300-06



Art. no.	mm ²	PW	kg	PU
216806	6	5	0,136	1
216808	10	5	0,12	1
216810	16	5	0,136	1
216812	25	5	0,135	1
216814	35	5	0,135	1
216816	50	5	0,134	1
216818	70	5	0,132	1
216820	95	5	0,132	1
216822	120	5	0,130	1
216824	150	5	0,128	1
216826	185	5	0,125	1
216828	240	5	0,121	1
216830	300	5	0,118	1

Dies for terminals and connectors DIN



300-06



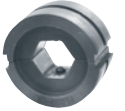
Art. no.	mm ²	Al	PW	ld.	kg	PU
216832	6	-	5	5	0,123	1
216834	10	-	5	6	0,122	1
216836	16	-	5	8	0,125	1
216838	25	-	5	10	0,120	1
216840	35	16-25	5	12	0,120	1
216842	50	35	5	14	0,119	1
216844	70	50	5	16	0,120	1
216846	95	70	5	18	0,120	1
216848	120	-	5	20	0,120	1
216850	150	95-120	5	22	0,120	1
216852	185	150	5	25	0,120	1
216854	240	185	5	28	0,115	1
216856	300	240	5	32	0,120	1

Dies for end sleeves



Art. no.	mm ²	kg	PU
216950	6	0,120	1
216952	10	0,120	1
216954	16	0,120	1
216956	25	0,120	1
216958	35	0,120	1
216960	50	0,120	1
216962	70	0,120	1
216964	95	0,120	1
216966	120	0,120	1
216968	150	0,120	1
216970	185	0,120	1

Dies for tubular terminals „F-Type“



Art. no.	mm ²	PW	kg	PU
216876	6	8	0,120	1
216878	10	8	0,146	1
216880	16	9	0,153	1
216882	25	11	0,162	1
216884	35	13	0,171	1
216886	50	13	0,167	1
216888	70	13	0,160	1
216890	95	13	0,164	1
216892	120	20	0,174	1
216894	150	20	0,162	1
216896	185	8	0,124	1
216898	240	8	0,119	1
216899	300	8	0,089	1

Dies for rounding of square conductors



Art. no.	sm	se	kg	PU
216926	10	-	0,120	1
216928	16	-	0,120	1
216930	25	35	0,120	1
216932	35	50	0,120	1
216934	50	70	0,120	1
216936	70	95	0,120	1
216938	95	120	0,120	1
216940	120	150	0,240	1
216942	150	185	0,197	1
216944	185	240	0,120	1
216946	240	300	0,120	1

Battery powered crimping tools

Battery powered crimping tool „AC25-12“

2 step hydraulic for replaceable pressing dies, crimping head can be rotated by 180°, can be opened, with quick opening, manual return after completed pressing, LED to check battery status.

Included in delivery: 1 crimping tool, 1 charger, 2 batteries, 1 carry strap, in plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening/ Hub: 25 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Connectors: standard Cu 10-185 • DIN Cu 10-150 • DIN Al 16-120
- Pressing time, battery-operated in sec.: 6 - 12
- Battery charging time in min.: 60
- Battery type: NiMH, 14,4 V, 3 A
- Dual-piston pump
- Weight in kg: 7
- Weight of set in kg: 12



Art. no.	TL	mm ²	kg	PU
216601	335	10-400	12	1

Battery powered crimping tool „TC25-12“

2 step hydraulic for replaceable pressing dies, crimping head can be rotated by 180°, can be opened, with quick opening, manual return after completed pressing, LED to check battery status.

Included in delivery: 1 crimping tool, 1 charger, 2 batteries, 1 carry strap, in plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening/ Hub: 25 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Connectors: standard Cu 10-185 • DIN Cu 10-150 • DIN Al 16-120
- Pressing time, battery-operated in sec.: 6 - 12
- Battery charging time in min.: 60
- Battery type: NiMH, 14,4 V, 3 A
- Dual-piston pump
- Weight in kg: 7
- Weight of set in kg: 12



Art. no.	TL	mm ²	kg	PU
216620	330	10-400	12,000	1

Hydraulic hand pliers „HC25-12“

Crimping head can be rotated by 180°, manual return after completed pressing, light and compact construction in black plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening/ Hub: 25 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Connectors: standard Cu 10-185 • DIN Cu 10-150 • DIN Al 16-120
- Dual-piston pump
- Weight in kg: 6,2
- Weight of set in kg: 7,7



Art. no.	TL	mm ²	kg	PU
216124	620	10-400	7,700	1

Hydraulic crimping headstock „KC25-12“

in plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Cable lugs: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Connectors: standard Cu 10-185 • DIN Cu 10-150 • DIN Al 16-120
- Opening/ Hub: 25 mm
- Pressing width: wide
- Quick coupling
- Weight in kg: 3,6
- Weight of set in kg: 4,6



Art. no.	TL	mm ²	kg	PU
216004	185	10-400	4,600	1

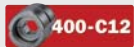
Battery powered crimping tools

Battery powered crimping tool „AC42-12“

2 step hydraulic for replaceable pressing dies, crimping head can be rotated by 180°, can be opened, with quick opening, manual return after completed pressing, LED to check battery status.

Included in delivery: 1 crimping tool, 1 charger, 2 batteries, 1 carry strap, in plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening/ Hub: 42 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Connectors: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Pressing time, battery-operated in sec.: 7 - 13
- Battery charging time in min.: 60
- Battery type: NiMH, 14,4 V, 3 Ah
- Dual-piston pump
- Weight in kg: 8,5
- Weight of set in kg: 13



Art. no.	TL	mm ²	kg	PU
216622	418	10-400	13,000	1

Hydraulic hand pliers „HC42-12“

Crimping head can be rotated by 180°, manual return after completed pressing, light and compact construction in black plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening/ Hub: 42 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Connectors: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Dual-piston pump
- Weight in kg: 8,2
- Weight of set in kg: 9,7



Art. no.	TL	mm ²	kg	PU
216125	640	10-400	9,700	1

Battery powered crimping tool „TC42-12“

2 step hydraulic for replaceable pressing dies, crimping head can be rotated by 180°, can be opened, with quick opening, manual return after completed pressing, LED to check battery status.

Included in delivery: 1 crimping tool, 1 charger, 2 batteries, 1 carry strap, in plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening/ Hub: 42 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Connectors: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Pressing time, battery-operated in seconds: 7 - 13
- Battery charging time in minutes: 60
- Battery type: NiMH, 14,4 V, 3 Ah
- Dual-piston pump
- Weight in kg: 8,5
- Weight of set in kg: 13



Art. no.	TL	mm ²	kg	PU
216624	490	10-400	13,000	1

Hydraulic crimping headstock „KC42-12“

in plastic case, without dies.

Pressing force in kN: 120

- Working pressure in bar: 700
- Opening/ Hub: 42 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Connectors: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Quick coupling
- Weight in kg: 5,3
- Weight of set in kg: 6,3



Art. no.	TL	mm ²	kg	PU
216005	250	10-400	6,300	1

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Battery powered crimping tools

Battery powered crimping tool „AH-12“

2 step hydraulic for replaceable pressing dies, crimping head can be rotated by 180°, can be opened, with quick opening, manual return after completed pressing, LED to check battery status.

Pressing tool for deep indent pressing.

Included in delivery: 1 crimping tool, 1 charger, 2 batteries, 1 carry strap, in plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Head can be opened
- Opening/ Hub: 20 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Connectors: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Pressing time, battery-operated in sec.: 6 - 13
- Battery charging time in minutes: 60
- Battery type: NiMH, 14,4 V, 3 Ah
- Dual-piston pump
- Weight in kg: 7 • Weight of set in kg: 12



Art. no.	TL	mm ²	kg	PU
216503	300	10-400	12,000	1

Hydraulic hand pliers „HH-12“

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

- Pressing force in kN: 120
- Working pressure in bar: 700
- Head can be opened
- Opening/ Hub: 20 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Connectors: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Dual-piston pump
- Weight in kg: 4,0
- Weight set in kg: 5,0



Art. no.	TL	mm ²	kg	PU
215946	620	10-400	7,500	1

Crimping headstock „KH-12“

in plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Head can be opened
- Opening/ Hub: 20 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Connectors: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-240
- Quick coupling
- Weight in kg: 4
- Weight of set in kg: 5



Art. no.	TL	mm ²	kg	PU
215980	185	10-400	5,000	1

Crimping dies standard

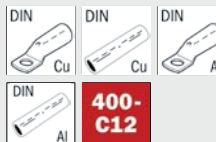
Standard copper tube terminals and connectors, hexagonal pressing



Art. no.	mm ²	PW	kg	PU
216008	10	10	0,211	1
216010	16	10	0,212	1
216012	25	10	0,210	1
216014	35	13	0,207	1
216016	50	13	0,224	1
216018	70	14	0,221	1
216020	95	14	0,226	1
216022	120	14	0,200	1
216024	150	11	0,200	1
216026	185	11	0,191	1
216028	240	11	0,186	1
216030	300	11	0,200	1
216032	400	11	0,200	1

Crimping dies DIN Cu + Al

Standard copper tube terminals and connectors, hexagonal pressing



Art. no.	mm ²	PW	Al	crimp	ld.	kg	PU
216036	10	10		10	6	0,248	1
216038	16	10		16	8	0,248	1
216040	25	13		25	10	0,244	1
216042	35	13	16-25	16-25	12	0,235	1
216044	50	13	35	35	14	0,231	1
216046	70	13	50	50	16	0,226	1
216048	95	14	70	70	18	0,229	1
216050	120	14		120	20	0,225	1
216052	150	10	95-120	95-120	22	0,197	1
216054	185	10	150	150	25	0,193	1
216056	240	10	185	185	28	0,185	1
216060	300	10		185	32	0,142	1

Crimping dies

Standard copper tube terminals and connectors, **mandrel shape pressing**



Art. no.	mm ²	kg	PU
216064	10	0,200	1
216066	16	0,120	1
216068	25	0,118	1
216070	35	0,116	1
216072	50	0,118	1
216074	70	0,131	1
216076	95	0,119	1
216078	120	0,111	1
216080	150	0,107	1
216082	185	0,095	1
216084	240	0,085	1
216086	300	0,060	1
216065	10-25	0,112	1
216067	35-50	0,121	1
216069	70-120	0,136	1
216071	150-300	0,125	1

Crimping dies

tubular terminals and connectors, **F-Type**



Art. no.	mm ²	PW	kg	PU
216160	10	8	0,211	1
216162	16	8	0,216	1
216164	25	11	0,227	1
216168	50	13	0,232	1
216166	35	13	0,234	1
216170	70	13	0,111	1
216172	95	13	0,230	1
216174	120	20	0,247	1
216176	150	20	0,235	1
216178	185	8	0,190	1
216180	240	8	0,179	1
216182	300	8	0,126	1

Crimping dies

for rounding of square conductors



Art. no.	sm	se	kg	PU
216088	50	70	0,518	1
216090	70	95	0,505	1
216092	95	120	0,489	1
216094	120	150	0,474	1
216096	150	185	0,463	1
216098	185	240	0,441	1
216100	240	300	0,406	1

Crimping dies

for end sleeves, **trapezoid pressing**



Art. no.	mm ²	PW	kg	PU
216112	50	26	0,194	1
216114	70	26	0,200	1
216116	95	26	0,188	1
216118	120	26	0,200	1
216120	150	26	0,200	1
216122	185	26	0,200	1

Crimping dies

for insulated tube terminals, **oval pressing**



Art. no.	mm ²	PW	kg	PU
216126	10	5	0,200	1
216128	16	5	0,200	1
216130	25	5	0,220	1
216132	35	5	0,218	1
216134	50	5	0,200	1
216136	70	5	0,200	1
216138	95	5	0,200	1
216140	120	5	0,200	1
216142	150	5	0,200	1

Crimping dies

C-connectors, **oval pressing**



Art. no.	mm ²	kg	PU
216148	16-25	0,218	1
216150	35	0,208	1
216152	50-70	0,260	1
216154	95	0,217	1
216156	120	0,261	1

Pressing inserts „Deep Indend“ (AH-12/KH-12/HH-12)

for conduit terminals and connectors, **thorn pressing**



Art. no.	mm ²	kg	PU
216552	50-70	0,211	1
216554	95-185	0,211	1
216556	240	0,211	1
216562	50-70	0,211	1
216564	95-185	0,211	1
216566	240	0,211	1

Adapter pressing thorn

Art. no.	size	kg	PU
216570	1 - 4	0,211	1

Pressing thorn

Art. no.	mm ²	size	kg	PU
216574	50-70	1	0,211	1
216576	95-185	2	0,211	1
216578	240	4	0,211	1

Holder for „Deep Indend“ pressing inserts

Art. no.	mm ²	kg	PU
216580	50-185	0,211	1
216582	240	0,211	1

Battery powered crimping tools

Battery powered crimping tool „SD300-6“

crimping head 360° swivelling, manual return flow after perfect pressure, **thorn pressing.**

Extent of supply: 1 crimping tool, 1 charger, 1 battery, 1 strap, in light plastic box.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Pressing width: thorn
- Cable lugs: standard Cu 16-300
- Connectors: standard Cu 16-120
- Pressing time, battery-operated in sec.: 6-12
- Battery charging time in min.: 60
- Battery type: Li-Ion, 14,4 V, 3 Ah
- Weight in kg: 2,4
- Weight of set in kg: 7,9



Art. no.	mm ²	kg	PU
216663	16-300	7,900	1

Battery powered crimping tool „AD300-6“

completed pressing, LED to check battery status, in plastic case, including quick charger, carry strap, no inserts necessary, thorn.

Included in delivery: 1 crimping tool, 1 charger, 2 batteries, 1 carry strap, in plastic case.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Pressing width: thorn
- Cable lugs: standard Cu 16-300
- Connectors: standard Cu 16-120
- Pressing time, battery-operated in sec.: 6
- Battery charging time in min.: 60
- Battery type: NiMH, 14,4 V, 3 Ah
- Dual-piston pump
- Weight in kg: 4,5
- Weight of set in kg: 9,5



Art. no.	TL	mm ²	kg	PU
216662	360	16-300	9,500	1

Hydraulic hand pliers „HD300-6“

Crimping head can be rotated by 360°, manual return after completed pressing, light and compact construction in black plastic case.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Pressing width: thorn
- Cable lugs: standard Cu 16-300
- Connectors: standard Cu 16-120
- Dual-piston pump
- Weight in kg: 5,0
- Weight of set in kg: 6,5

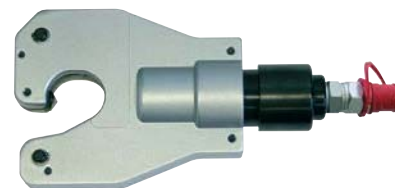


Art. no.	TL	mm ²	kg	PU
216660	560	16-300	6,500	1

Crimping headstock „KD300-6“

in plastic case.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Pressing width: thorn
- Cable lugs: standard Cu 16-300
- Connectors: standard Cu 16-120
- Quick coupling
- Weight in kg: 2,8
- Weight of set in kg: 3,8



Art. no.	TL	mm ²	kg	PU
216665	270	16-300	3,800	1

INFO:

Hydraulic 4-thorn pressing tool for pressing ordinary conduit terminals and connectors, wide pressing
Reliable, robust, hydraulic pressing tool. The solution for your tough jobs!



- Tool adjusts automatically to the conductor cross-section being pressed
- Guaranteed DIN suitable connection
- No need to purchase further pressing inserts
- No need to change insert for each conductor cross-section
- Ideally suited for pressing extremely flexible finest-wired conductors of the cable classes 5 & 6
- Ideally suited to pressing of compressed conductors (no sleeve, no special cable shoe)
- Test thorn and guide for fast, simple, optical pressing pressure control

Note:

DIN pressing cable shoes must be processed in accordance with the standard with DIN hexagonal pressing tools and DIN pressing inserts!

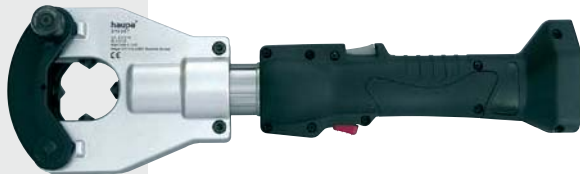
Battery powered crimping tools

Battery powered crimping tool „SD400-6“

crimping head 360° swivelling, manual return flow after perfect pressure, **thorn pressing**.

Extent of supply: 1 crimping tool, 1 charger, 1 battery, 1 strap, in light plastic box.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Pressing width: thorn
- Cable lugs: standard Cu 25-400
- Connectors: standard Cu 25-400
- Pressing time, battery-operated in sec.: 6-12
- Battery charging time in min.: 60
- Battery type: Li-Ion, 14,4 V, 3 Ah
- Weight in kg: 2,4
- Weight of set in kg: 7,9



Art. no.	mm ²	kg	PU
216667	25-400	7,900	1

Battery powered crimping tool „AD400-6“

2 step hydraulic, crimping head can be rotated by 360°, manual return after completed pressing, LED to check battery status, in plastic case, including quick charger, carry strap, no inserts necessary, **thorn pressing**.

Included in delivery: 1 crimping tool, 1 charger, 2 batteries, 1 carry strap, in plastic case.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Pressing width: thorn
- Cable lugs: standard Cu 25-400
- Connectors: standard Cu 25-400
- Pressing time, batteryoperated in sec.: 6
- Battery charging time in min.: 60
- Battery type: NiMH, 14,4 V, 3 Ah
- Dual-piston pump
- Weight in kg: 4,8
- Weight of set in kg: 9,8



Art. no.	TL	mm ²	kg	PU
216664	360	25-400	9,800	1

Hydraulic hand pliers „HD400-6“

Crimping head can be rotated by 360°, manual return after completed pressing, light and compact construction in black plastic case.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Pressing width: thorn
- Cable lugs: standard Cu 25-400
- Connectors: standard Cu 25-400
- Dual-piston pump
- Weight in kg: 5,2
- Weight of set in kg: 6,7



Art. no.	TL	mm ²	kg	PU
216661	580	25-400	6,700	1

Crimping headstock „HKD400“

in plastic case.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Pressing width: thorn
- Cable lugs: standard Cu 25-400
- Connectors: standard Cu 25-400
- Quick coupling
- Weight in kg: 3
- Weight of set in kg: 4



Art. no.	TL	mm ²	kg	PU
216666	280	25-400	4,000	1

Test pin

Test pin for hydraulic four mandrel pressing tools



Art. no.	kg	PU
216660/B	0,566	1

Template for four mandrel pressing

Template for hydraulic four mandrel pressing tools



Art. no.	kg	PU
216660/L	0,566	1



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Accessories

Mains adapter

for all 14.4 Volt battery tools



Art. no.	kg	PU
216252	0,834	1

Battery NiMH

for all 14.4 Volt NiMH battery tools



Art. no.	kg	PU
215509	0,859	1

Battery Li-Ion

for all 14.4 Volt Li-Ion battery tools



Art. no.	kg	PU
215501	0,859	1

Quick charger NiMH

for all 14.4 Volt NiMH battery tools



Art. no.	kg	PU
216253	0,819	1

Quick charger Li-Ion

for all 14.4 Volt Li-Ion battery tools



Art. no.	kg	PU
216256	0,819	1

Hydraulic oil

0,5 l



Art. no.	kg	PU
216254	1,000	1

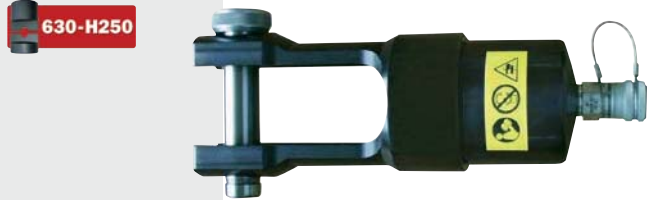


Hydraulic crimping headstocks

Hydraulic crimping headstock „KH-25“

for uninsulated terminals 95 - 630 mm², pressure 250 kN, for crimping dies hexagon shape according to DIN 48083 page 3 and 4.

- Pressing force in kN: 250
- Working pressure in bar: 700
- Opening/ Hub: Pin
- Pressing width: wide
- Pressing area Cu/Al: 95-630
- Dual-piston pump
- Quick coupling
- Weight in kg: 6,4
- Weight of set in kg: 9



Art. no.	TL	mm ²	kg	PU
216236	185	95-630	9,000	1

Crimping dies DIN-connection, Cu/Al

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



Art. no.	Cu	Al	ld.	kg	PU
212372	95	70	18	1,194	1
212376	120		20	2,000	1
212380	150	120	22	1,700	1
212382	185	150	25	1,300	1
212384	240	185	28	1,300	1
212388	300	240	32	1,300	1
212390		300	34	1,300	1
212392	400	400	38	1,300	1
212394	500		42	1,300	1
212396	630	500	44	1,113	1

Hydraulic crimping headstock set

Content: Art. No. 216236 Hydraulic crimping headstock, Art. No. 216238 Hydraulic high-pressure hose, 2 m, Art. No. 216348 Hydraulic foot pump, Art. No. 216251 Carrycase.

- Pressing force in kN: 250
- Working pressure in bar: 700
- Opening/ Hub: Pin
- Pressing width: wide
- Pressing area Cu/Al: 95-630
- Dual-piston pump
- Quick coupling
- Weight in kg: 18,4
- Weight of set in kg: 21



Art. no.	mm ²	kg	PU
216250	95-630	21,000	1

Hydraulic crimping headstock + cylinder „KH-45“

for terminals and butt connectors to 1000 mm², together with an adapter it is possible to use all other crimping dies of the other crimping headstock, low weight in comparison to the crimping range, excellent price relation, snap head, extensionable system to bend and punch electric bus bars socket-joint connection.

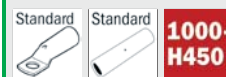
- Pressing force in kN: 450
- Working pressure in bar: 700
- Pressing width: wide
- Pressing area Cu/Al: 120-1000
- Quick coupling
- Weight of set in kg: 13,5



Art. no.	TL	mm ²	kg	PU
216355	185	120-1000	13,500	1

Crimping dies, standard

standard, hexagon pressing



Art. no.	mm ²	kg	PU
216304	120	1,000	1
216306	150	1,118	1
216308	185	1,113	1
216310	240	1,100	1
216312	300	1,200	1
216314	400	1,200	1
216316	500	1,200	1
216318	625	1,300	1

Crimping terminals and connectors, DIN

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



Art. no.	Cu	Al	ld.	kg	PU
216320	120		20	1,115	1
216322	150	95/120	22	1,063	1
216324	185	150	25	1,058	1
216326	240	185	28	1,096	1
216328	300	240	32	0,900	1
216330		300	34	1,070	1
216332	400		38	1,053	1
216334	500		42	1,019	1
216336	625		44	1,010	1
216338	800		52	1,051	1
216340	1000		58	1,021	1

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Pumps for hydraulic crimping headstocks

Hydraulic foot pump „F-700“

material: aluminium alloy, light design, twin-cam pump, automatic switching from closing (ca. 25 ccm/Hub) to working feed rate (ca. 2.5 ccm/Hub), security valve, max. working pressure 700 bar (+ 10/- 30 bar), without hose, **with quick coupling**



Art. no.	NP	kg	PU
216348	700	12,000	1

Hydraulic high-pressure hose

steel-reinforced with rapid coupling to foot pump Art. No. 216348



Art. no.	TL	kg	PU
216238	2	0,950	1
216240	3	1,100	1
216242	4	1,600	1
216244	5	2,000	1

Electro-hydraulic pump „PN700 I“

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, 230 volt, with foot switch control, pump for working outside



Art. no.	NP	kg	PU
216352	700	220V	41,000
216358	700	battery/220V	41,000

Battery-hydraulic pump „PA-700“

2 stage hydraulics, manual control switch, manual return flow after perfect pressure, LED for battery control, 1 quick charger, 2 batteries NiMH, carrying belt, max. operating pressure: 700 bar with 1,8 m hose, **with quick coupling**



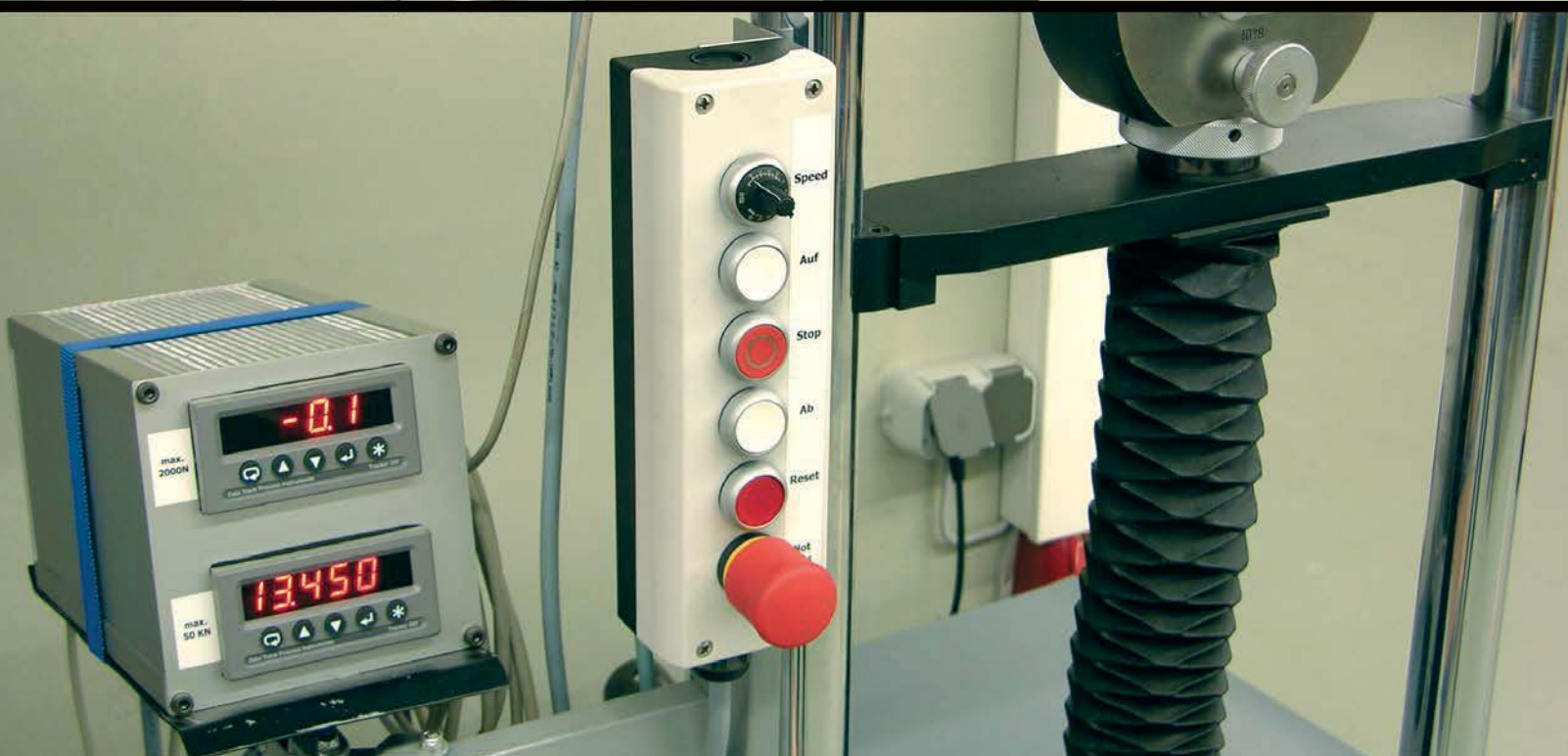
Art. no.	NP	kg	PU
216354	700	6,600	1

Elektro-hydraulic pump „PN-700“

2 stage hydraulics, manual control switch, manual return flow after perfect pressure, carrying belt, max. operating pressure: 700 bar with 1,8 m hose, **with quick coupling**
















Art. no.	NP	kg	PU
216356	700	10,420	1



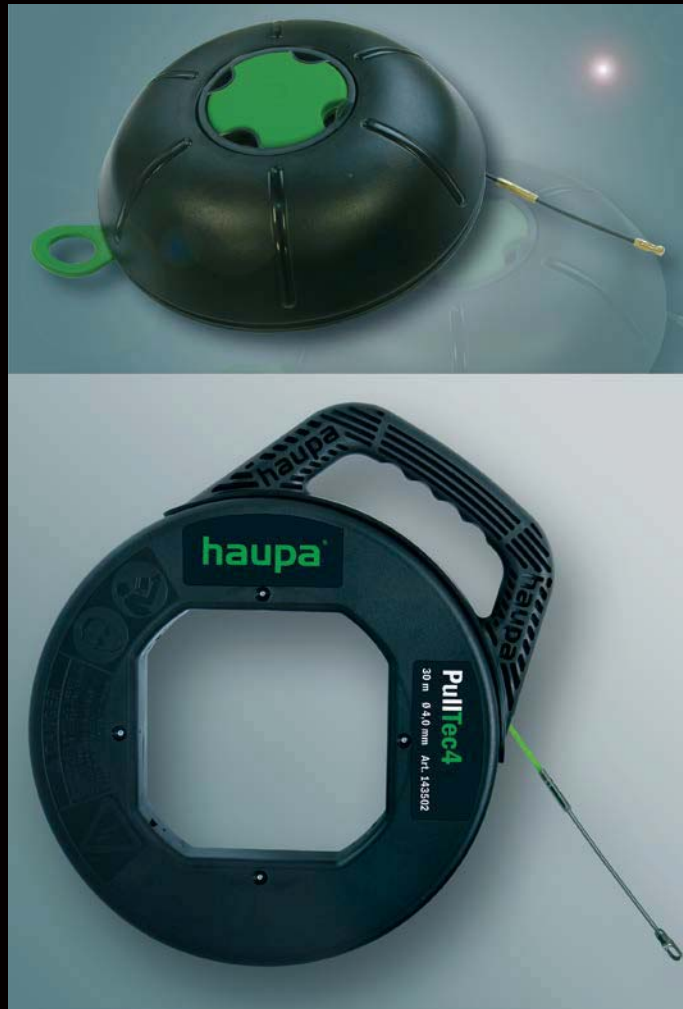
6 tonne pressing tools

Tool	Article No.	Type	Insert range	Pressing width	Four mandrel crimping	Pressing force kN	Working pressure in bar	Head can be opened	Quick coupling	HUB/ opening mm	Pressing range for cable lugs								Pressing range for connectors								kg	Set kg	Akku NiMH	Pressing time in sec.
											Cu	Cu DIN	F-Type	Al DIN	CU standard PL	CU standard light T	Cu	Cu DIN	F-Type	Al DIN	Cu standard PL	Cu standard light M	Dual piston pump							
	215765	HHs-6	185 H6	slim	-	60	700	●	-	17	10-240	10-185	-	10-185	10-185	10-185	10-185	10-185	-	10-185	10-185	-	3,000	7,900	-	-				
	215770	SHs-6	185 H6	slim	-	60	700	●	-	17	10-240	10-185	-	16-185	10-240	-	16-185	10-240	-	16-185	10-240	-	2,400	7,900	Li-Ion 14,4	5				
	215800	HH-6	240 H6	slim	-	60	700	●	-	17	10-240	10-240	-	16-185	10-240	-	16-185	10-240	-	16-185	10-240	-	3,000	4,500	-	-				
	215881	SH-6	240 H6	slim	-	60	700	●	-	17	10-240	10-240	-	16-185	10-240	-	16-185	10-240	-	16-185	10-240	-	2,400	7,900	Li-Ion 14,4	5				
	215880	AH-6	240 H6	slim	-	60	700	●	-	17	10-240	10-240	-	16-185	10-240	-	16-185	10-240	-	16-185	10-240	-	3,500	8,500	NiMH	6				
	216807	KO-6	300 O6	slim	-	60	700	●	●	17	6-300	6-300	6-300	6-240	6-300	6-300	6-300	6-300	6-300	6-240	6-300	6-300	-	3,200	4,200	-	-			
	216804	MO-6	300 O6	slim	-	60	700	●	-	17	6-300	6-300	6-300	6-240	6-300	6-300	6-300	6-300	6-300	6-240	6-300	6-300	-	8,100	11,800	-	-			
	215802	HO-6	300 O6	slim	-	60	700	●	-	17	6-300	6-300	6-300	6-240	6-300	6-300	6-300	6-300	6-300	6-240	6-300	6-300	●	3,500	5,000	-	-			
	215801	SO-6	300 O6	slim	-	60	700	●	-	17	6-300	6-300	6-300	6-240	6-300	6-300	6-300	6-300	6-300	6-240	6-300	6-300	-	2,400	7,900	Li-Ion	5			
	216800	AO-6	300 O6	slim	-	60	700	●	-	17	6-300	6-300	6-300	6-240	6-300	6-300	6-300	6-300	6-300	6-240	6-300	6-300	●	4,500	9,500	NiMH	4			
	216665	KD300-6		wide	●	60	700	-	●	-	16-300	-	16-240	16-300	16-120	16-300	16-120	16-300	16-95	-	16-120	16-120	-	2,800	3,800	-	-			
	216660	HD300-6		wide	●	60	700	-	-	-	16-300	-	16-240	16-300	16-120	16-300	16-120	16-300	16-95	-	16-120	16-120	●	5,000	6,500	-	-			
	216663	AD300-6		wide	●	60	700	-	-	-	16-300	-	16-240	16-300	16-120	16-300	16-120	16-300	16-95	-	16-120	16-120	-	4,500	9,500	Li-Ion	6			
	216662	AD300-6		wide	●	60	700	-	-	-	16-300	-	16-240	16-300	16-120	16-300	16-120	16-300	16-95	-	16-120	16-120	●	4,500	9,500	NiMH	6			
	216666	KD400-6		wide	●	60	700	●	●	-	25-400	-	25-400	25-400	25-400	25-400	25-400	25-400	25-400	-	25-400	25-400	-	3,000	4,000	-	-			
	216661	HD400-6		wide	●	60	700	●	-	-	25-400	-	25-400	25-400	25-400	25-400	25-400	25-400	25-400	-	25-400	25-400	●	5,200	6,700	-	-			
	216667	AD400-6		wide	●	60	700	●	-	-	25-400	-	25-400	25-400	25-400	25-400	25-400	25-400	25-400	-	25-400	25-400	-	4,800	9,800	Li-Ion	6			
	216664	AD400-6		wide	●	60	700	●	-	-	25-400	-	25-400	25-400	25-400	25-400	25-400	25-400	25-400	-	25-400	25-400	●	4,800	9,800	NiMH	6			

12 tonne pressing tools

Tool	Artikel No.	Type	Insert range	Pressing width	Pressing force kN	Working pressure in bar	Head can be opened	Quick coupling	HUB/ opening mm	Pressing range for cable lugs								Pressing range for connectors								Dual piston pump	kg	Set kg	Akku NiMH	Pressing time in sec.			
										Cu	Cu DIN	F>Type	Al DIN	CU standard PL	CU standard light T	Cu	Cu DIN	F>Type	Al DIN	Cu standard PL	Cu standard light M	Groove pressing	Cu	Cu DIN	F>Type						Al DIN	Cu standard PL	Cu standard light M
	216004	KC25-12	400 C12	wide	120	700	-	●	25	10-400	10-300	10-300	16-240	10-400	10-300	10-185	10-150	10-150	16-120	10-185	10-150	10-150	-	3,600	4,600	-	-						
	216124	HC25-12	400 C12	wide	120	700	-	-	25	10-400	10-300	10-300	16-240	10-400	10-300	10-185	10-150	10-150	16-120	10-185	10-150	10-150	-	6,200	7,700	-	-						
	216601	AC25-12	400 C12	wide	120	700	-	-	25	10-400	10-300	10-300	16-240	10-400	10-300	10-185	10-150	10-150	16-120	10-185	10-150	10-150	-	7,000	12,000	14,4 V 3 Ah	6						
	216620	TC25-12	400 C12	wide	120	700	-	-	25	10-400	10-300	10-300	16-240	10-400	10-300	10-185	10-150	10-150	16-120	10-185	10-150	10-150	-	7,000	12,000	14,4 V 3 Ah	6						
	216005	KC42-12	400 C12	wide	120	700	-	●	42	10-400	10-300	10-300	16-240	10-400	10-300	10-400	10-300	10-300	16-240	10-400	10-300	10-300	-	5,300	6,300	-	-						
	216125	HC42-12	400 C12	wide	120	700	-	-	42	10-400	10-300	10-300	16-240	10-400	10-300	10-400	10-300	10-300	16-240	10-400	10-300	10-300	-	8,200	9,700	-	-						
	216622	AC42-12	400 C12	wide	120	700	-	-	42	10-400	10-300	10-300	16-240	10-400	10-300	10-400	10-300	10-300	16-240	10-400	10-300	10-300	-	8,500	13,000	14,4 V 3 Ah	7						
	216624	TC42-12	400 C12	wide	120	700	-	-	42	10-400	10-300	10-300	16-240	10-400	10-300	10-400	10-300	10-300	16-240	10-400	10-300	10-300	-	8,500	13,000	14,4 V 3 Ah	7						
	215980	KH-12	400 C12	wide	120	700	●	●	20	10-400	10-300	10-300	16-240	10-400	10-300	10-400	10-300	10-300	16-240	10-400	10-300	10-300	●	4,000	5,000	-	-						
	215946	HH-12	400 C12	wide	120	700	●	-	20	10-400	10-300	10-300	16-240	10-400	10-300	10-400	10-300	10-300	16-240	10-400	10-300	10-300	●	6,000	7,500	-	-						
	216503	AH-12	400 C12	wide	120	700	●	-	20	10-400	10-300	10-300	16-240	10-400	10-300	10-400	10-300	10-300	16-240	10-400	10-300	10-300	●	7,000	12,000	14,4 V 3 Ah	6						
	216236	KH-25	630 - H250	wide	250	700	●	●	20	-	-	-	70-500	-	-	-	-	-	70-500	-	-	-	-	6,400	9,000	-	-						
	216355	KH-45	1000 - H450	wide	450	700	●	●	-	120-625	1000	120-625	95-300	120-625	1000	120-625	1000	120-625	120-625	625	1000	1000	-	10,300	13,500	-	-						

Fish tapes
Cable pulling device system



Fish tapes

Perlon fish tapes

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



Art. no.	TL	Ø	kg/100	PU	PE
150220	5	3	6,000	1	1
150222	10	3	10,300	1	1
150224	15	3	14,100	1	1
150226	20	3	18,800	1	1
150228	25	3	24,600	1	1
150230	30	3	24,400	1	1
150241	10	4	16,000	1	1
150243	15	4	23,400	1	1
150245	20	4	30,300	1	1
150247	25	4	38,600	1	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.	TL	Ø	kg/100	PU	PE
150232	10	4	15,200	1	1
150234	15	4	23,600	1	1
150236	20	4	30,300	1	1
150238	25	4	40,200	1	1
150239	30	4	44,500	1	1

Perlon fish tapes

made from stretched „Bayer-Perlon wire“, black, with solid steel end pieces, with 2 eyes, strip size 3 mm



Art. no.	TL	Ø	kg/100	PU	PE
150450	5	3	4,800	1	1
150452	10	3	9,900	1	1
150454	15	3	13,900	1	1
150456	20	3	16,300	1	1
150458	25	3	21,800	1	1
150462	5	4	8,000	1	1
150464	10	4	15,800	1	1
150466	15	4	24,000	1	1
150468	20	4	29,200	1	1
150470	25	4	38,900	1	1

Perlon fish tapes

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



Art. no.	TL	Ø	kg/100	PU	PE
150476	10	4	18,000	1	1
150478	15	4	26,000	1	1
150480	20	4	33,200	1	1
150482	25	4	41,200	1	1

Steel fish tapes

with eyelet and brass rolling ball, without additional pilot spring



Art. no.	TL	Ø	kg/100	PU	PE
150152	10	3,5	13,100	1	1
150154	15	3,5	20,800	1	1
150156	20	3,5	26,800	1	1
150158	25	3,5	32,300	1	1

Spiral fish tapes

made from steel spirals, fourfold twisted, with solid steel end pieces, strip size 4 mm



Art. no.	TL	Ø	kg/100	PU	PE
150200	5	4	31,200	1	1
150202	10	4	69,100	1	1
150204	15	4	98,800	1	1
150206	20	4	134,300	1	1
150208	25	4	182,000	1	1
150210	30	4	185,900	1	1

Fibreglas section fish rods kits

Fibre glass push rod set

in nylon bag.

Scope of delivery:

Push rod length: 7 m
5 rods 8 mm Ø black
2 rods 8 mm Ø white

Accessories:

1 hook, 1 chain, 1 magnet, 1 starting block, 1 pulling knob



Art. no.	TL		kg	PU
150560	7	12 pcs.	0,500	1

Fibre glass push rod set

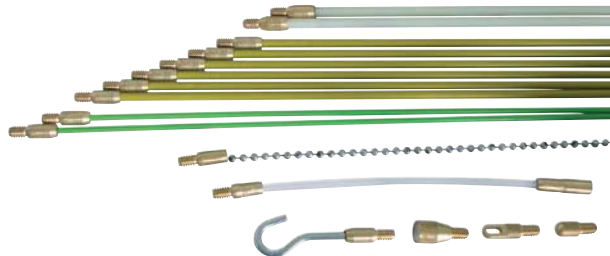
in nylon bag.

Scope of delivery:

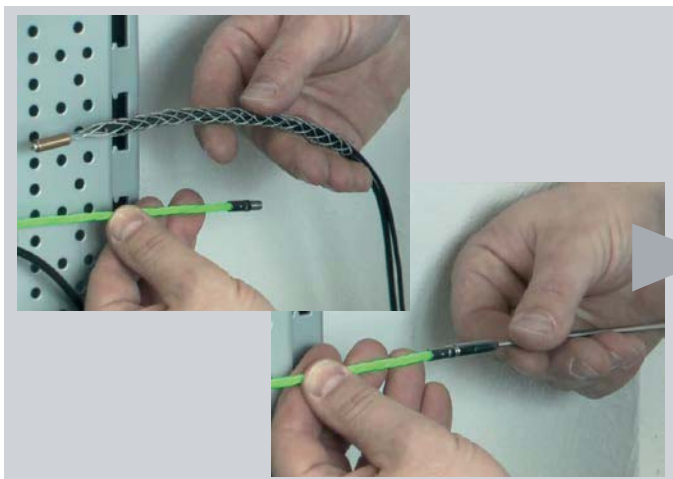
Push rod length: 10 m
2 rods 6 mm Ø white
6 rods 5 mm Ø yellow
2 rods 4 mm Ø green

Accessories:

1 hook, 1 chain, 1 magnet, 1 starting block, 1 pulling knob, 1 LED lamp



Art. no.	TL		kg	PU
150562	10	16 pcs.	0,700	1



HAUPA PullTec

Cable pulling device HAUPA PullTec

with special plastic coating, M5 thread and probe, in durable plastic housing, colour: black

„Single Composite“, 4 mm green

The advantages of the HAUPA PullTec at a glance:

- Material: Coated with a special plastic
- Slides very well and is highly elastic
- Low friction
- Does not break or bend
- M5 thread
- With probe
- In durable plastic housing
- Breaking load: 300 kg



Art. no.	TL	Ø	kg	PU
143500	20	M5 4	1,300	1
143502	30	M5 4	1,500	1

Cable pulling device HAUPA PullTec

with special plastic coating, M5 thread and probe, in durable plastic housing, colour: black

„Single Composite“, 5,2 mm black

The advantages of the HAUPA PullTec at a glance:

- Material: Coated with a special plastic
- Slides very well and is highly elastic
- Low friction
- Does not break or bend
- M5 thread
- With probe
- In durable plastic housing
- Breaking load: 350 kg



Art. no.	TL	Ø	kg	PU
143504	20	M5 5,2	1,500	1
143506	30	M5 5,2	1,700	1

Additional accessories, see HAUPA fibre, page 72



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Cable pulling device, accessories

Cable pulling device HAUPA-FIBRE

Cable pulling device with glass fibre rod \varnothing 3 mm, with PP casing, including front/end sleeve M5.



Art. no.	TL	\varnothing		kg	PU
143000	20	M5	3	HAUPA-FIBRE 20 m	1,199 1
143002	30	M5	3	HAUPA-FIBRE 30 m	1,500 1
143002/ECO	30	M5	3	HAUPA-FIBRE 30 m	1,198 1

Pulling unit with loop M5



Art. no.	\varnothing	kg	PU
143008	M5 6	0,020	1

Guiding head with loop M5



Art. no.	\varnothing	kg	PU
143010	M5 6	0,200	1

Guiding head



Art. no.	\varnothing	kg	PU
143012	M5 7	0,010	1

Guiding head



Art. no.	\varnothing	kg	PU
143014	M5 10	0,011	1

Guiding head



Art. no.	\varnothing	kg	PU
143030	M5 13	0,017	1

Front/end sleeve M5



Art. no.	kg	PU
143016	M5 0,005	1

Connection sleeve for probes \varnothing 3 mm



Art. no.	\varnothing	kg	PU
143018	3	0,003	1

Cable grips



Art. no.	TL	\varnothing	kg	PU
143020	200	M5 4-6	0,007	1

Special pulling aid

for fast pulling of glass fibre rods \varnothing 3 mm



Art. no.	\varnothing	kg	PU
143024	3 - 6	0,047	1

Special fast glue for glass fibre rod \varnothing 3 mm



Art. no.	kg	PU
143026	0,012	1

Replacement glass fibre rod

\varnothing 3 mm, length 20/30 m, including front/end sleeve M5



Art. no.	TL	\varnothing	kg	PU
143004	20	3	0,022	1
143006	30	3	0,034	1

Service set for HAUPA-FIBRE

5 front sleeves, 5 guiding heads, 3 connection sleeves, 1 special fast glue



Art. no.	kg	PU
143028	M5 0,041	1

Cable pulling device, accessories

Cable pulling device FOX

Cable pulling device FOX with glass fibre rod \varnothing 4.5 mm and green PP coating RAL 6018, with zinc steel winder \varnothing 330 mm, standing version, complete with front/end sleeve M5 and pulling head M5 with loop



Art. no.	TL		\varnothing	kg	PU
143050	40	M5	4,5	3,900	1
143052	60	M5	4,5	4,400	1
143054	80	M5	4,5	4,800	1

Replacement glass fibre rod FOX

\varnothing 4.5 mm, complete with front/end sleeve M5



Art. no.	TL		\varnothing	kg	PU
143056	40	M5	4,5	0,900	1
143058	60	M5	4,5	1,400	1
143060	80	M5	4,5	1,800	1

Guiding head with loop M5



Art. no.		kg	PU
143062	M5	0,011	1

Front bulb with shackle M5



Art. no.		kg	PU
143064	M5	0,100	1

Guiding role made from aluminium M5



Art. no.		kg	PU
143066	M5	0,100	1

Guiding head



Art. no.		\varnothing	kg	PU
143012	M5	7	0,010	1
143014	M5	10	0,011	1
143030	M5	13	0,017	1

Guiding head set with heads \varnothing 7, 10, 13 mm



Art. no.			kg	PU
143068	M5	3-pieces	0,038	1

Front/end sleeve M5



Art. no.		kg	PU
143070	M5	0,100	1

Connection sleeve for probes \varnothing 4.5 mm



Art. no.		\varnothing	kg	PU
143072	M5	4,5	0,002	1

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Cable pulling device, accessories

Cable pulling device SIX

Cable pulling device SIX with glass fibre rod \varnothing 6.0 mm and green PP coating RAL 6018, with zinc steel winder \varnothing 550 mm, in lying and standing version with wheels, complete with front/end sleeve M6 and pulling head M6 with loop



lying version

Art. no.	TL	\varnothing	kg	PU
143100	40 M6	6	5,200	1
143102	60 M6	6	5,900	1
143104	80 M6	6	6,800	1
143105	100 M6	6	7,700	1

standing version

Art. no.	TL	\varnothing	kg	PU
143106	40 M6	6	7,200	1
143108	60 M6	6	8,300	1
143110	80 M6	6	9,400	1
143111	100 M6	6	10,300	1

standing version with wheels

Art. no.	TL	\varnothing	kg	PU
143112	40 M5	6	7,400	1
143114	60 M6	6	8,500	1
143116	80 M6	6	9,600	1
143117	100 M6	6	10,500	1

Replacement glass fibre rod SIX

\varnothing 6 mm, including front/end sleeve M5



Art. no.	TL	\varnothing	kg	PU
143118	40 M6	6	1,700	1
143120	60 M6	6	2,500	1
143122	80 M6	6	3,250	1
143124	100 M6	6	4,150	1

Guiding head with loop M6



Art. no.	\varnothing	kg	PU
143126	M6 6	0,018	1

Front bulb with shackle M6



Art. no.	kg	PU
143128	M6 0,022	1

Guiding role made from aluminium



Art. no.	kg	PU
143130	M6 0,026	1

Guiding head M6



Art. no.	\varnothing	kg	PU
143132	M6 6	0,017	1

Front/end sleeve M6



Art. no.	kg	PU
143134	M6 0,013	1

Connection shackle for probes \varnothing 6 mm



Art. no.	\varnothing	kg	PU
143136	M6 6	0,012	1

Cable pulling device, accessories

Cable pulling device FIX

Cable pulling device FIX with glass fibre rod \varnothing 7.5 mm ad green PP coating RAL 6018, with zinced steel winder \varnothing 630 mm, in standing version and with wheels, including front/end sleeve M12 and front bulb with shackle M12



standing version

Art. no.	TL	\varnothing	kg	PU
143150	40 M12	7,5	8,100	1
143152	60 M12	7,5	9,400	1
143154	80 M12	7,5	10,700	1
143156	100 M12	7,5	11,900	1
143158	120 M12	7,5	13,100	1

standing version with wheels

Art. no.	TL	\varnothing	kg	PU
143160	40 M12	7,5	9,100	1
143162	60 M12	7,5	10,400	1
143164	80 M12	7,5	11,700	1
143166	100 M12	7,5	12,900	1
143168	120 M12	7,5	14,100	1

Replacement glass fibre rod FIX

\varnothing 7.5 mm, including front/end sleeve M12



Art. no.	TL	\varnothing	kg	PU
143170	40 M12	7,5	1,500	1
143172	60 M12	7,5	2,000	1
143174	80 M12	7,5	3,000	1
143176	100 M12	7,5	3,700	1
143178	120 M12	7,5	4,500	1

Front bulb with shackle M12



Art. no.	kg	PU
143180 M12	0,010	1

Guiding role made from aluminium



Art. no.	kg	PU
143182 M12	0,200	1

Guiding role made from aluminium, length 80 mm



Art. no.	\varnothing	kg	PU
143184 M12	40	0,220	1

Front/end sleeve M12



Art. no.	kg	PU
143186 M12	0,004	1

Connection sleeve for probes



Art. no.	\varnothing	kg	PU
143187	7,5	0,003	1

Connection sleeve with rotator



Art. no.	TL	\varnothing	kg	PU
143190	83 M12	30	0,006	1

Catch device made from zinced steel

Catch device made from zinced steel to connect glass fibre rods from two opposite sides with M12 connections on both sides



Art. no.	\varnothing	\varnothing St.	\varnothing tu/mm	kg	PU	
143192	M12	7,5	7,5	60-80	0,300	1

Catch device made from zinced steel

Catch device made from zinced steel to connect glass fibre rods from two opposite sides with M12 connections on both sides



Art. no.	\varnothing St.	\varnothing tu/mm	kg	PU
143194	M12 7,5/9/11/14,5	80-100	0,350	1
143196	M12 7,5/9/11/14,5	100-125	0,046	1
143198	M12 7,5/9/11/14,5	125-160	0,090	1

Pipe cleaning brush



Art. no.	kg	PU
143200	0,200	1
143202	0,098	1
143204	0,400	1

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Cable pulling device, accessories

Cable pulling device STRONG

Cable pulling device STRONG with glass fibre rod \varnothing 9 mm and green PP coating RAL 6018, with zinc steel winder \varnothing 795 mm (1000 with wheels), in standing version and with wheels, including front/end sleeve M12 and front bulbs with shackle M12



standing version

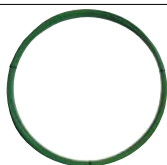
Art. no.	TL	\varnothing	kg	PU
143210	40 M12	9	9,100	1
143212	60 M12	9	12,900	1
143214	80 M12	9	14,820	1

standing version with wheels

Art. no.	TL	\varnothing	kg	PU
143216	100 M12	9	29,400	1
143218	120 M12	9	31,300	1
143220	150 M12	9	33,900	1

Replacement glass fibre rod STRONG

\varnothing 9 mm, including front/end sleeve M12



Art. no.	TL	\varnothing	kg	PU
143222	40 M12	9	3,800	1
143224	60 M12	9	5,500	1
143226	80 M12	9	7,500	1
143228	100 M12	9	9,400	1
143230	120 M12	9	11,300	1
143232	150 M12	9	13,900	1

Cable pulling device POWER

Cable pulling device POWER with glass fibre rod \varnothing 11 mm and green PP coating RAL 6018, with zinc steel winder \varnothing 1000 mm, width 150 mm, standing version with wheels, including front/end sleeve M12 and front bulb with shackle M12

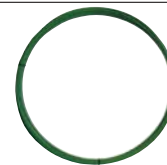


standing version with wheels

Art. no.	TL	\varnothing	kg	PU
143250	150 M12	11	43,000	1
143252	200 M12	11	50,000	1
143254	250 M12	11	56,500	1
143256	300 M12	11	64,500	1

Replacement glass fibre rod POWER

\varnothing 11 mm, including front/end sleeve M12



Art. no.	TL	\varnothing	kg	PU
143258	150 M12	11	21,900	1
143260	200 M12	11	29,200	1
143262	250 M12	11	36,400	1
143264	300 M12	11	43,900	1

Cable pulling device KING

Cable pulling device KING with glass fibre rod \varnothing 14.5 mm and black PP coating, with steel winder \varnothing 1500 mm with wheels, including front/end sleeve M12 and front bulb with shackle M12



standing version with wheels

Art. no.	TL	\varnothing	kg	PU
143270	150 M12	14,5	85,000	1
143272	200 M12	14,5	99,000	1
143274	250 M12	14,5	113,000	1
143276	300 M12	14,5	127,000	1
143278	350 M12	14,5	141,000	1
143280	400 M12	14,5	156,000	1

Cable protection

Front bulb with shackle M12



Art. no.		kg	PU
143180	M12	0,010	1

Guiding role made from aluminium



Art. no.		kg	PU
143182	M12	0,200	1

Guiding role made from aluminium, length 80 mm



Art. no.	Ø	kg	PU
143184	M12 40	0,220	1

Front/end sleeve M12



Art. no.		kg	PU
143186	M12	0,004	1

Connection sleeve for probes



Art. no.	Ø	kg	PU
143188	9	0,150	1
143266	11	0,075	1

Connection sleeve with rotator



Art. no.	TL	Ø	kg	PU
143190	83 M12	30	0,006	1

Catch device made from zinc steel

Catch device made from zinc steel to connect glass fibre rods from two opposite sides with M12 connections on both sides



Art. no.	M12	Ø St.	Øtu/mm	kg	PU
143194	M12	7,5/9/11/14,5	80-100	0,350	1
143196	M12	7,5/9/11/14,5	100-125	0,046	1
143198	M12	7,5/9/11/14,5	125-160	0,090	1

Pipe cleaning brush



Art. no.	Ø after	kg	PU
143200	80 mm	0,200	1
143202	97 mm	0,098	1
143204	117 mm	0,400	1

Lubricants and slip agents

Water-based lubricants and slip agents

This prevents 80% of friction and facilitates cable laying through excellent slippage in every situation. As soon as the water is evaporated, the main part of the lubricant remains und ensures that old cables can easily be pulled out and new ones inserted, for many years and at different temperatures.



Art. no.		kg	PU
143344	plastic bottle 500 ml	0,572	1
143345	plastic bottle 1.000 ml	1,150	1

Dispenser for plastic bottle



Art. no.	kg	PU
143346	0,016	1

Water-based lubricants and slip agents

This prevents 80% of friction and facilitates cable laying through excellent slippage in every situation. As soon as the water is evaporated, the main part of the lubricant remains und ensures that old cables can easily be pulled out and new ones inserted, for many years and at different temperatures.



Art. no.		kg	PU
143348	spray can 400 ml	0,457	1

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Accessories

Cable grips for electrical installations

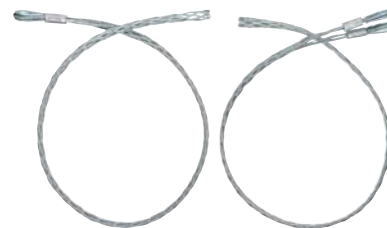
Hand-braided cable grips made from zinc-plated steel braid with a flexible Towing ring with front unit M5 and integrally moulded Talurit ferrule



Art. no.	TL	Ø	kg	PU
143300	200 M5	4-6	0,009	1
143302	210 M5	6-9	0,013	1
143304	350 M5	9-12	0,024	1
143306	350 M5	12-15	0,029	1
143308	500 M5	15-19	0,200	1
143310	500 M5	19-25	0,052	1
143312	450 M5	25-31	0,400	1

Cable grips for subterranean cable laying

Hand-braided cable grips made from zinc-plated steel braid with 1 loop or 2 loops and integrally moulded Talurit ferrule



Art. no.	TL	Ø	kg	PU
143314	1250	10-20	0,378	1
143316	1250	10-20	0,465	1
143318	1250	20-30	0,380	1
143320	1250	20-30	0,460	1
143322	1250	30-40	0,424	1
143324	1250	30-40	0,510	1
143326	1250	40-50	0,430	1
143328	1250	40-50	0,200	1
143330	1250	50-65	0,388	1
143332	1250	50-65	0,520	1
143334	1250	65-80	1,120	1

Cord und cable grips



Art. no.	TL	Ø	kg	PU
143336	2000	8-16	0,250	1
143338	2000	10-20	0,250	1
143340	2000	20-30	0,250	1
143342	2000	30-40	0,250	1

Legend cable pulling device

Rod diameter	Pipe diameter	Pushing energy	Min. bending radius	Breaking strength	Pulling strength with starting/ ending	Advised length	page
Ø mm	Ø mm	kg	mm	kg	kg	m	
FIBRE 3,0 mm	16-32	+++	160	400	110	20-30 (+ 2-3 m)	72
PullTec 4,0 mm	16-32	+++	100	300	130	10-30 (+ 3-5 m)	71
PullTec 5,2 mm	20-32	+++	100	350	140	10-40 (+ 3-5 m)	71
FOX 4,5 mm	40-60	+++	310	1200	170	20-40 (+ 3-5 m)	73
SIX 6,0 mm	50-80	++++	400	2000	230	30-60 (+ 3-5 m)	74
FIX 7,5 mm	63-100	++++	500	3200	290	40-70 (+ 3-5 m)	75
STRONG 9,0 mm	63-125	++++	620	4400	340	60-150 (+ 3-5 m)	76
POWER 11,0 mm	63-150	++++	770	6250	500	100-300 (+ 3-5 m)	76
KING 15,0 mm	100-250	++++	1150	15000	550	150-450 (+ 3-5 m)	76
PERLON® 3,0 mm	16	+	80	200	110	5-15 (+ 2-3 m)	70
SPIRAL 4,0 mm	20-32	+	180	115	115	10-25 (+ 3-5 m)	70

Decoiler



Cable unwinder

Cable unwinder

4 box cable unwinder.

Technical data

Capacity: 50 kg

Max reel diameter: 130 mm



Art. no.	drum/width	drum-Ø	drum/kg	kg	PU
143406	600	130	50	5,500	1

Cable unwinder

Technical data

Length: 400 mm

Width: 400 mm

Height: 390 mm



Art. no.	drum-Ø	drum/kg	kg	PU
143404	150-600	50	8,000	1

Decoiler

Decoiler 600

The new HAUPA decoiler have been designed for daily intensive use. The most important characteristics of this product are the ease of operation and the light weight. The side elements are made from galvanised powder-coated steel. The ball bearing drums can be adjusted without the need for specialist tools. Four vibration-damping feet prevent unwanted movement of the roller and protect the floor.

Technical data

Length: 350 mm

Width: 350 mm

Height: 105 mm



Art. no.	drum/width	drum-Ø	drum/kg	kg	PU
143398	330	600	50	3,500	1

Decoiler 1200

The new HAUPA cable decoilers are developed for intensive use. Ease of use and a low weight are fundamental characteristics of this product. The front and the rear sides are made of anodized aluminum with antiskid ribs. For the left and the right side, sink steel with powder coating has been used. Because of this construction, the decoilers are strong, flexible to use, and resistant against heavy circumstances. The roles have bearings and a sliding axis, which make it easy to change the position of the roles without any special tools. Four antiskid buffers ensure that vibrations are subdued and floors remain intact.

Technical data

Length: 610 mm

Width: 570 mm

Height: 115 mm



Art. no.	drum/width	drum-Ø	drum/kg	kg	PU
143400	560	1200	175	9,000	1

Decoiler 1200 +

The new HAUPA cable decoilers are developed for intensive use. Ease of use and a low weight are fundamental characteristics of this product. The front and the rear sides are made of anodized aluminum with antiskid ribs. For the left and the right side, sink steel with powder coating has been used. Because of this construction, the decoilers are strong, flexible to use, and resistant against heavy circumstances. The roles have bearings and a sliding axis, which make it easy to change the position of the roles without any special tools. Four antiskid buffers ensure that vibrations are subdued and floors remain intact.

Technical data

Length: 705 mm

Width: 570 mm

Height: 115 mm



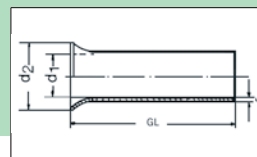
Art. no.	drum/width	drum-Ø	drum/kg	kg	PU
143402	660	1200	300	10,500	1

End sleeves



End sleeves

- of electrolytic copper, bare
- Dimensions to DIN 46228, Part 1

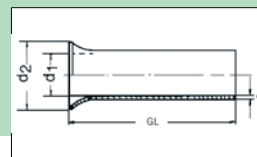


Cu

Art. no.	CSS	d1	d2	s	GL	kg/100	PU
270141	0,34	0,85	1,8	0,15	5	0,003	1000
270140	0,5	1,0	2,1	0,15	6	0,004	1000
270140/500		1,0	2,1	0,15	6	0,002	500
270142	0,75	1,2	2,3	0,15	6	0,005	1000
270142/500		1,2	2,3	0,15	6	0,003	500
270143		1,2	2,3	0,15	10	0,005	1000
270143/500		1,2	2,3	0,15	10	0,005	500
270144		1,2	2,3	0,15	12	0,007	1000
270146	1	1,4	2,5	0,15	6	0,005	1000
270146/500		1,4	2,5	0,15	6	0,004	500
270148		1,4	2,5	0,15	10	0,007	1000
270148/500		1,4	2,5	0,15	10	0,006	500
270149		1,4	2,5	0,15	12	0,009	1000
270149/500		1,4	2,5	0,15	12	0,009	500
270150	1,5	1,7	2,8	0,15	7	0,005	1000
270150/500		1,7	2,8	0,15	7	0,005	500
270152		1,7	2,8	0,15	10	0,009	1000
270152/500		1,7	2,8	0,15	10	0,008	500
270154		1,7	2,8	0,15	12	0,012	1000
270154/500		1,7	2,8	0,15	12	0,009	500
270156		1,7	2,8	0,15	18	0,014	1000
270156/500		1,7	2,8	0,15	18	0,014	500
270158	2,5	2,5	3,4	0,15	7	0,008	1000
270158/500		2,5	3,4	0,15	7	0,010	500
270159		2,5	3,4	0,15	10	0,013	1000
270159/500		2,5	3,4	0,15	10	0,013	500
270160		2,5	3,4	0,15	12	0,012	1000
270160/500		2,5	3,4	0,15	12	0,011	500
270164	4	2,8	4,0	0,2	9	0,018	1000
270164/500		2,8	4,0	0,2	9	0,014	500
270166		2,8	4,0	0,2	12	0,019	1000
270166/500		2,8	4,0	0,2	12	0,018	500
270168		2,8	4,0	0,2	18	0,030	1000
270168/500		2,8	4,0	0,2	18	0,030	500
270170	6	3,5	4,7	0,2	10	0,020	250
270172		3,5	4,7	0,2	12	0,022	250
270174		3,5	4,7	0,2	15	0,034	250
270176		3,5	4,7	0,2	18	0,034	250
270178	10	4,5	5,8	0,2	12	0,028	250
270180		4,5	5,8	0,2	15	0,054	250
270182		4,5	5,8	0,2	18	0,068	250
270184	16	5,8	7,5	0,2	12	0,045	250
270186		5,8	7,5	0,2	15	0,057	250
270188		5,8	7,5	0,2	18	0,059	250
270190	25	7,3	9,5	0,2	12	0,058	250
270192		7,3	9,5	0,2	18	0,080	250
270194	35	8,3	11,0	0,2	18	0,114	100
270195		8,3	11,0	0,2	20	0,108	100
270196		8,3	11,0	0,2	22	0,100	100
270198		8,3	11,0	0,2	26	0,110	100

End sleeves

- of electrolytic copper, tin-plated
- Dimensions to DIN 46228, Part 1



Cu

Art. no.	CSS	d1	d2	s	GL	kg/100	PU
270066	0,25	0,75	1,7	0,15	5	0,003	1000
270066/500		0,75	1,7	0,15	5	0,002	500
270068	0,34	0,85	1,8	0,15	5	0,003	1000
270068/500		0,85	1,8	0,15	5	0,001	500
270070	0,5	1,0	2,1	0,15	6	0,003	1000
270070/500		1,0	2,1	0,15	6	0,003	500
270072	0,75	1,2	2,3	0,15	6	0,003	1000
270072/500		1,2	2,3	0,15	6	0,003	500
270074		1,2	2,3	0,15	12	0,007	1000
270074/500		1,2	2,3	0,15	12	0,003	500
270076	1	1,4	2,5	0,15	6	0,004	1000
270077		1,4	2,5	0,15	8	0,005	1000
270078		1,4	2,5	0,15	10	0,007	1000
270078/500		1,4	2,5	0,15	10	0,003	500
270079		1,4	2,5	0,15	12	0,008	1000
270079/500		1,4	2,5	0,15	12	0,004	500
270080	1,5	1,7	2,8	0,15	7	0,006	1000
270082		1,7	2,8	0,15	10	0,009	1000
270082/500		1,7	2,8	0,15	10	0,005	500
270084		1,7	2,8	0,15	12	0,010	1000
270084/500		1,7	2,8	0,15	12	0,005	500
270086		1,7	2,8	0,15	18	0,010	1000
270086/500		1,7	2,8	0,15	18	0,010	500
270087		1,7	2,8	0,15	20	0,018	1000
270088	2,5	2,2	3,4	0,15	7	0,008	1000
270089		2,2	3,4	0,15	10	0,017	1000
270089/500		2,2	3,4	0,15	10	0,017	500
270090		2,2	3,4	0,15	12	0,011	1000
270090/500		2,2	3,4	0,15	12	0,011	500
270091		2,2	3,4	0,15	15	0,015	1000
270091/500		2,2	3,4	0,15	15	0,015	500
270092		2,2	3,4	0,15	18	0,023	1000
270092/500		2,2	3,4	0,15	18	0,023	500
270093		2,2	3,4	0,15	20	0,020	1000
270093/500		2,2	3,4	0,15	20	0,020	500
270094	4	2,8	4,0	0,2	9	0,015	1000
270096		2,8	4,0	0,2	12	0,020	1000
270097		2,8	4,0	0,2	15	0,024	1000
270098		2,8	4,0	0,2	18	0,030	1000
270100	6	3,5	4,7	0,2	10	0,020	250
270102		3,5	4,7	0,2	12	0,024	250
270104		3,5	4,7	0,2	15	0,031	250
270106		3,5	4,7	0,2	18	0,036	250
270107		3,5	4,7	0,2	20	0,040	250
270108	10	4,5	5,8	0,0	12	0,032	250
270110		4,5	5,8	0,2	15	0,039	250
270112		4,5	5,8	0,2	18	0,045	250
270114	16	5,8	7,5	0,2	12	0,044	250
270116		5,8	7,5	0,2	15	0,056	250
270118		5,8	7,5	0,2	18	0,068	250
270119		5,8	7,5	0,2	24	0,104	250
270120	25	7,3	9,5	0,2	12	0,063	250
270121		7,3	9,5	0,2	15	0,075	250
270122		7,3	9,5	0,2	18	0,085	250
270123		7,3	9,5	0,2	25	0,121	100
270124	35	8,3	11,0	0,2	18	0,112	100
270126		8,3	11,0	0,2	22	0,132	100
270128		8,3	11,0	0,2	25	0,143	100
270130		8,3	11,0	0,2	30	0,155	100
270131	50	10,3	13,0	0,3	22	0,202	100
270132	70	12,5	15,0	0,4	25	0,259	100
270134	95	14,5	17,0	0,4	30	0,500	50
270135	120	16,5	19,0	0,5	32	0,660	50
270136	150	18,5	21,0	0,5	38	0,529	50
270137	185	20,0	23,5	0,6	40	1,350	25

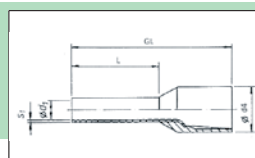
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End sleeves DIN colour range

- insulated
- Electrolytic copper, tin-plated
- Dimensions to DIN 46228. Part 4
- DIN colour range III

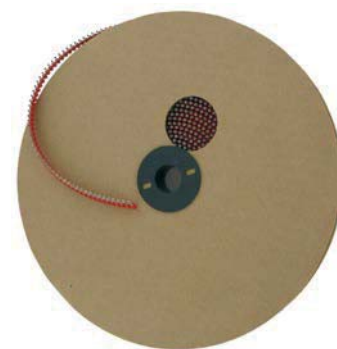


Art. no.	CSS		d1	d2	s	TL	l	kg/100	PU
270800	0,5	white	1,1	3,1	0,15	14,0	8	0,010	100
270801		white	1,1	3,1	0,15	14,0	8	0,009	500
270802	0,75	grey	1,25	3,3	0,15	14	8	0,009	500
270803		grey	1,25	3,3	0,15	14	8	0,013	100
270804	1	red	1,5	3,5	0,15	14,6	8	0,014	100
270805		red	1,5	3,5	0,15	14,6	8	0,009	500
270806		red	1,5	3,5	0,15	18	12	0,013	500
270807	1,5	black	1,7	4,0	0,15	14,6	8	0,013	500
270808		black	1,7	4,0	0,15	14,6	8	0,014	100
270809		black	1,7	4,0	0,15	14,6	10	11,100	100
270810	2,5	blue	2,3	4,9	0,15	15,0	8	0,020	100
270811		blue	2,3	4,9	0,15	15,0	8	0,017	500
270812		blue	2,3	4,9	0,15	16,5	10	0,018	500
270813		blue	2,3	4,9	0,15	25,0	18	0,030	500
270814	4	grey	2,9	5,6	0,2	17,7	10	0,030	100
270815		grey	2,9	5,6	0,2	17,7	10	0,030	500
270816		grey	2,9	5,6	0,2	25,7	18	0,040	100
270818	6	yellow	3,6	7,0	0,2	20	12	0,045	100
270820		yellow	3,6	7,0	0,2	26	18	0,055	100
270822	10	red	4,6	8,4	0,2	21,5	12	0,057	100
270824		red	4,6	8,4	0,2	27,5	18	0,072	100
270826	16	blue	6,0	9,6	0,2	22,2	12	0,082	100
270828		blue	6,0	9,6	0,2	28,2	18	0,103	100
270830	25	yellow	7,3	12,0	0,2	30	16	0,142	50
270832		yellow	7,3	12,0	0,2	32	18	0,152	50
270834		yellow	7,3	12,0	0,2	36	22	0,168	50
270836	35	red	8,3	13,5	0,2	30	16	0,168	50
270838		red	8,3	13,5	0,2	32	18	0,178	50
270840		red	8,3	13,5	0,2	39	25	0,218	50
270842	50	blue	10,3	15,0	0,3	36	20	0,344	50
270844		blue	10,3	15,0	0,3	40	25	0,404	50

End sleeves in tape form, to DIN 46228 P. 4

- insulated
- Copper/plastic, tin-plated surface
- DIN color range III

Art. no.	CSS		l	coils	kg/100	PU
272250	0,5	white	8	Ø 250 mm	0,010	3000
272254	0,75	grey	8	Ø 250 mm	0,030	3000
272260	1,0	red	8	Ø 250 mm	0,010	3000
272264	1,5	black	8	Ø 250 mm	0,010	2500
272268	2,5	blue	8	Ø 250 mm	0,010	1500



End sleeves in tape form, to DIN 46228 P. 4

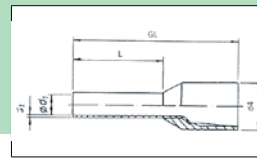
- insulated
- Copper/plastic, tin-plated surface

Art. no.	CSS		l	dispenser	kg/100	PU
272280	0,5	white	8	150x150x18 mm	0,070	1000
272284	0,75	grey	8	150x150x18 mm	0,100	1000
272290	1	red	8	150x150x18 mm	0,120	1000
272294	1,5	black	8	150x150x18 mm	0,120	1000
272298	2,5	blue	8	150x150x18 mm	0,140	500



End sleeves, colour range I, (french)

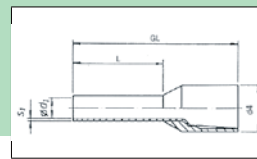
- insulated
- Electrolytic copper, tin-plated
- Dimensions to DIN 46228. Part 4
- Colour range I, french



Art. no.	CSS		d1	d2	s	TL	l	kg/100	PU
270014	0,25	yellow	0,8	2,3	0,15	10,4	6	0,005	100
270015		yellow	0,8	2,3	0,15	10,4	6	0,023	500
270016	0,34	green	0,8	2,5	0,15	12,4	6	0,022	500
270800	0,5	white	1,1	3,1	0,15	14,0	8	0,010	100
270801		white	1,1	3,1	0,15	14,0	8	0,009	500
270021	0,75	blue	1,25	3,3	0,15	14,5	8	0,021	100
270022		blue	1,25	3,3	0,15	14,5	8	0,021	500
270804	1	red	1,5	3,5	0,15	14,6	8	0,014	100
270805		red	1,5	3,5	0,15	14,6	8	0,009	500
270808	1,5	black	1,7	4,0	0,15	14,6	8	0,014	100
270027		black	1,7	4,0	0,15	24,4	18	0,022	100
270028		black	1,7	4,0	0,15	24,4	18	0,022	500
270029	2,5	grey	2,3	4,9	0,15	15,0	8	0,020	100
270030		grey	2,3	4,9	0,15	15,0	8	0,020	500
270031		grey	2,3	4,9	0,15	21	18	0,028	100
270032		grey	2,3	4,9	0,15	21	18	0,028	500
270033	4	orange	2,9	5,6	0,2	17,7	10	0,029	100
270034		orange	2,9	5,6	0,2	17,7	10	0,029	500
270036		orange	2,9	5,6	0,2	25,7	18	0,040	100
270038	6	green	3,6	7,0	0,2	20	12	0,043	100
270040		green	3,6	7,0	0,2	26	18	0,065	100
270042	10	brown	4,6	8,4	0,2	21,5	12	0,046	100
270044		brown	4,6	8,4	0,2	27,5	18	0,073	100
270046	16	ivory	6,0	9,6	0,2	24,2	12	0,081	100
270048		ivory	6,0	9,6	0,2	28,2	18	0,103	100
270049	25	black	7,3	12,0	0,2	30,0	16	0,070	50
270050		black	7,3	12,0	0,2	32,0	18	0,079	50

End sleeves, colour range II, (german)

- insulated
- Electrolytic copper, tin-plated
- Colour range II, german



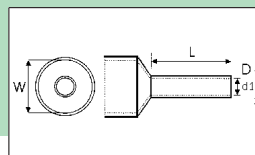
Art. no.	CSS		d1	d2	s	TL	l	kg/100	PU
270714	0,25	light blue	0,8	2,3	0,15	10,4	6	0,007	100
270715		light blue	0,8	2,3	0,15	10,4	6	0,005	500
270716	0,34	emerald	0,8	2,5	0,15	10,4	6	0,005	500
270719	0,5	orange	1,1	3,1	0,15	14,0	8	0,010	100
270720		orange	1,1	3,1	0,15	14,0	8	0,009	500
270721	0,75	white	1,25	3,3	0,15	14,6	8	0,012	100
270722		white	1,25	3,3	0,15	14,6	8	0,011	500
270723	1	yellow	1,5	3,5	0,15	14,6	8	0,013	100
270724		yellow	1,5	3,5	0,15	14,6	8	0,011	500
270725	1,5	red	1,7	4,0	0,15	14,6	8	0,015	100
270726		red	1,7	4,0	0,15	14,6	8	0,013	500
270727		red	1,7	4,0	0,15	24,4	18	0,023	100
270728		red	1,7	4,0	0,15	24,4	18	0,023	500
270810	2,5	blue	2,3	4,9	0,15	15,0	8	0,020	100
270811		blue	2,3	4,9	0,15	15,0	8	0,017	500
270813		blue	2,3	4,9	0,15	25,0	18	0,030	500
270732		blue	2,3	4,9	0,15	25,0	18	0,030	500
270814	4	grey	2,9	5,6	0,2	17,7	10	0,030	100
270815		grey	2,9	5,6	0,2	17,7	10	0,030	500
270816		grey	2,9	5,6	0,2	25,7	18	0,040	100
270738	6	black	3,6	7,0	0,2	20,0	12	0,050	100
270740		black	3,6	7,0	0,2	26,0	18	0,062	100
270742	10	ivory	4,6	8,4	0,2	21,5	12	0,066	100
270744		ivory	4,6	8,4	0,2	27,5	18	0,081	100
270746	16	green	6,0	9,6	0,2	22,2	12	0,080	100
270748		green	6,0	9,6	0,2	28,2	18	0,104	100
270750	25	brown	7,3	11,2	0,2	29,0	16	0,132	50
270754	35	beige	8,3	12,7	0,2	30,0	16	0,170	50
270756		beige	8,3	12,7	0,2	39,0	25	0,400	25
270758	50	olive	10,3	15,0	0,3	36,4	20	0,328	25
270760		olive	10,3	15,0	0,3	41,0	25	0,300	25
270762	70	yellow	13,5	17,2	0,4	37,0	21	0,536	25

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End sleeves for short-circuit-proof cables

- for short-circuit-proof cables with extra thick insulation (NSFGAFÖU)

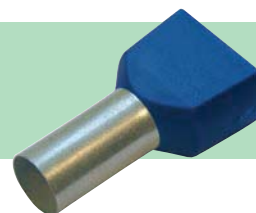
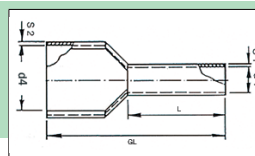
Application: Infeed or branches in front of mains switch, in switching stations, distributors or with rail vehicles, solar heating units, ignition cables



Art. no.	CSS		d1	d2	l	kg/100	PU
270900	1,5	black	1,8	6,8	8	0,026	100
270902		black	1,8	6,8	10	0,024	100
270904	2,5	blue	2,3	7,8	8	0,033	100
270906		blue	2,3	7,8	12	0,360	100
270908	4	grey	2,9	7,8	10	0,046	100
270910	6	yellow	3,8	7,3	12	0,062	100
270912	10	red	4,5	9,8	12	0,081	100
270914	16	blue	6,0	12,2	12	0,107	100

Twin-end sleeves two cables DIN

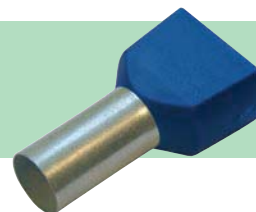
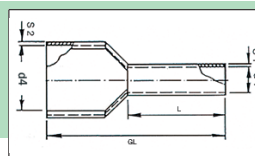
- tube section of electrolytic copper
- galvanically tin-plated
- plastic collar of PP • heat-resistant to 105°C



Art. no.	CSS		d1	s	TL	l	kg/100	PU
270778	0,5	white	1,5	0,15	15	8	0,011	100
270780	0,75	grey	1,8	0,15	15	8	0,013	100
270782		grey	1,8	0,15	17	10	0,014	100
270784	1	red	2,05	0,15	15	8	0,014	100
270787		red	2,05	0,15	17	10	0,015	100
270788	1,5	black	2,3	0,15	16	8	0,017	100
270790		black	2,3	0,15	20	12	0,022	100
270792	2,5	blue	2,9	0,2	18,5	10	0,029	100
270794		blue	2,9	0,2	21,5	13	0,033	100
270796	4	grey	3,8	0,2	23	12	0,049	100
270797	6	yellow	4,9	0,2	25	14	0,072	100
270798	10	red	6,5	0,2	26	14	0,090	100
270799	16	blue	8,3	0,2	31	16	0,078	50

Twin-end sleeves, colour range I (french)

- insulated
- Electrolytic copper, tin-plated
- Dimensions to DIN 46228. Part 4
- Colour range I, french



Art. no.	CSS		d1	s	TL	l	kg/100	PU
273350	0,5	orange	1,5	0,15	15	8	0,031	100
273352	0,75	white	1,8	0,15	15	8	0,031	100
273354		white	1,8	0,15	17	10	0,031	100
273356	1	yellow	2,05	0,15	15	8	0,031	100
273358		yellow	2,05	0,15	17	12	0,031	100
273360	1,5	red	2,3	0,15	16	8	0,031	100
273362		red	2,3	0,15	20	12	0,031	100
273392	2,5	blue	2,9	0,2	18,5	10	0,029	100
273394		blue	2,9	0,2	21,5	13	0,029	100
273396	4	grey	3,8	0,2	23	12	0,049	100
273364	6	black	4,9	0,2	25	14	0,031	100
273366	10	ivory	6,5	0,2	26	14	0,031	100
273368	16	green	8,3	0,2	31	16	0,031	50

Empty dispenser box



Art. no.	kg	PU
270870	0,049	5

Dispenser box with uninsulated end sleeves

Contents: tin-plated end sleeves
 700 pcs. 0.5 mm², art. 270070
 1000 pcs. 0.75 mm², art. 270072
 800 pcs. 1.0 mm², art. 270076
 500 pcs. 1.5 mm², art. 270080
 450 pcs. 2.5 mm², art. 270088



Art. no.	kg	PU
270217	0,240	1

Dispenser box with uninsulated end sleeves

Contents: tin-plated end sleeves
 200 pcs. 4 mm², art. 270094
 100 pcs. 6.0 mm², art. 270102
 50 pcs. 10.0 mm², art. 270108
 50 pcs. 16.0 mm², art. 270114



Art. no.	kg	PU
270218	0,158	1

Dispenser box with insulated end sleeves (DIN)

Contents: Colour range III, DIN
 50 pcs. white, 0.5 mm², art. 270800
 100 pcs. grey, 0.75 mm², art. 270802
 100 pcs. red, 1.0 mm², art. 270804
 100 pcs. black, 1.5 mm², art. 270807
 50 pcs. blue, 2.5 mm², art. 270810



Art. no.	kg	PU
270854	0,090	1

Dispenser box with insulated end sleeves (DIN)

Contents: Colour range III, DIN
 50 pcs. grey, 4 mm², art. 270815
 20 pcs. yellow, 6 mm², art. 270818
 20 pcs. red, 10 mm², art. 270822
 10 pcs. blue, 16 mm², art. 270826



Art. no.	kg	PU
270858	0,089	1

Dispenser box with Twin end sleeves (DIN)

Contents:
 50 pcs. grey, 0.75 mm², art. 270780
 50 pcs. red, 1.0 mm², art. 270784
 50 pcs. black, 1.5 mm², art. 270788
 50 pcs. blue, 2.5 mm², art. 270792



Art. no.	kg	PU
270795	0,080	1

Dispenser box with insulated end sleeves (german)

Contents: Colour range II
 50 pcs. orange, 0.5 mm², art. 270719
 100 pcs. white, 0.75 mm², art. 270721
 100 pcs. yellow, 1.0 mm², art. 270723
 100 pcs. red, 1.5 mm², art. 270725
 50 pcs. blue, 2.5 mm², art. 270810



Art. no.	kg	PU
270852	0,089	1

Dispenser box with insulated end sleeves (german)

Contents: Colour range II
 50 pcs. grey, 4 mm², art. 270814
 20 pcs. black, 6 mm², art. 270738
 20 pcs. ivory, 10 mm², art. 270742
 10 pcs. green, 16 mm², art. 270746



Art. no.	kg	PU
270856	0,087	1

Dispenser box with insulated end sleeves (french)

Contents: Colour range I
 50 pcs. white, 0.5 mm², art. 270800
 100 pcs. blue, 0.75 mm², art. 270021
 100 pcs. red, 1.0 mm², art. 270804
 100 pcs. black, 1.5 mm², art. 270808
 50 pcs. grey, 2.5 mm², art. 270029



Art. no.	kg	PU
270850	0,090	1

Slide Box with DIN end sleeves

The transparent sliding lids enable easy access and prevent the contents from becoming mixed up.

Product features:

Handy plastic box with Euro holes, 5 separate compartments, simple access through sliding lids, no mixing of contents.

Dimensions: 165 x 58 x 38 mm (L x W x H)

Content: end sleeves DIN

- 50 pcs white, 0.5 mm², art. 270800
- 100 pcs. grey, 0.75 mm², art. 270802
- 100 pcs. red, 1.0 mm², art. 270804
- 100 pcs. black, 1.5 mm², art. 270807
- 50 pcs. blue, 2.5 mm², art. 270810



Art. no.	kg	PU
270864	0,109	1

Slide Box with DIN TWIN end sleeves

Content: TWIN end sleeves DIN

- 50 pcs. white, 2 x 0,5 mm², art. 270778
- 50 pcs. grey, 2 x 0.75 mm², art. 270780
- 50 pcs. red, 2 x 1.0 mm², art. 270784
- 50 pcs. black, 2 x 1.5 mm², art. 270788
- 25 pcs. blue, 2 x 2.5 mm², art. 270792



Art. no.	kg	PU
270866	0,104	1

End sleeve assortment

Content: end sleeves, tin-plated

- 1000 End sleeves 6 mm x 0.75 mm², art. 270072
- 1000 End sleeves 6 mm x 1.0 mm², art. 270076
- 1000 End sleeves 7 mm x 1.5 mm², art. 270080
- 500 End sleeves 7 mm x 2.5 mm², art. 270088
- 500 End sleeves 9 mm x 4.0 mm², art. 270094
- 500 End sleeves 10 mm x 6.0 mm², art. 270100
- 250 End sleeves 18 mm x 10.0 mm², art. 270112
- 250 End sleeves 18 mm x 16.0 mm², art. 270118
- 1 crimping pliers (Art. 21 08 24), pressing range 0.75 - 16.0 mm², in plastic bulk storage chest 420 x 350 x 60 mm



Art. no.	Content	kg	PU
270039	5000	2,580	1

End sleeve assortment

Content: end sleeves, tin-plated

- 1000 End sleeves 6 mm x 0.75 mm², art. 270072
- 1000 End sleeves 6 mm x 1.0 mm², art. 270076
- 1000 End sleeves 7 mm x 1.5 mm², art. 270080
- 500 End sleeves 7 mm x 2.5 mm², art. 270088
- 500 End sleeves 9 mm x 4.0 mm², art. 270094
- 500 End sleeves 10 mm x 6.0 mm², art. 2 0100
- 1 crimping pliers (Art. 21 07 63), press range 0.5 - 4.0 mm² in plastic bulk storage chest 420 x 350 x 60 mm



Art. no.	Content	kg	PU
270041	4500	2,500	1

Assortments of wire-end sleeves

Content: 5.100 insulated wire-end sleeves, 1 crimping pliers (21 08 04), crimping range 0.75 - 10 mm² in plastic bulk storage chest 420 x 350 x 60 mm.

- 100 Twin end sleeves 8/0,5, white, art. 270778
- 100 Twin end sleeves 8/0,75, grey, art. 270780
- 100 Twin end sleeves 8/1, red, art. 270784
- 100 Twin end sleeves 8/1,5, black, art. 270788
- 100 Twin end sleeves 10/2,5, blue, art. 270792
- 100 Twin end sleeves 12/4,0, grey, art. 270796
- 100 Twin end sleeves 14/6,0, yellow, art. 270797
- 500 insulated end sleeves 8/0,5, white, art. 270801
- 500 insulated end sleeves 8/0,75, grey, art. 270802
- 1.000 insulated end sleeves 8/1, red, art. 270805
- 1.000 insulated end sleeves 8/1,5, black, art. 270807
- 500 insulated end sleeves 8/2,5, blue, art. 270811
- 500 insulated end sleeves 10/4, grey, art. 270815
- 200 insulated end sleeves 12/6, yellow, art. 270818
- 200 insulated end sleeves 12/10, red, art. 270822



Art. no.	Content	type	kg	PU
270888	5100	DIN	2,150	1
270890	5100	II	2,150	1

Assortments of wire-end sleeves

Content: 5.300 insulated wire-end sleeves, 1 crimping pliers (21 08 42), crimping range 1 - 10 mm², in plastic bulk storage chest 420 x 350 x 60 mm.

- 1.000 insulated end sleeves 8/1, red, art. 270805
- 1.000 insulated end sleeves 8/1,5, black, art. 270807
- 1.000 insulated end sleeves 8/2,5, blue, art. 270811
- 500 insulated end sleeves 10/4, grey, art. 270815
- 200 insulated end sleeves 12/6, yellow, art. 270818
- 200 insulated end sleeves 12/10, red, art. 270822
- 500 insulated end sleeves 12/1, red, art. 270806
- 300 insulated end sleeves 18/1,5, black, art. 270027
- 250 insulated end sleeves 18/2,5, blue, art. 270813
- 200 insulated end sleeves 18/4, grey, art. 270816
- 100 insulated end sleeves 18/6, yellow, art. 270820
- 50 insulated end sleeves 18/10, red, art. 270824



Art. no.	Content	type	kg	PU
270891	5300	DIN	2,100	1
270892	5300	I	2,100	1
270893	5300	II	2,100	1

Assortment for Combi-Crimp

Content: 1 crimping pliers (210784) for insulated terminals 0,5 - 2,5 mm² and end sleeves 0,5 - 6 mm², 2.700 insulated end sleeves, 1.100 insulated terminals in plastic bulk storage chest 420 x 350 x 60 mm.

- 500 insulated end sleeves 0,5/8, white, art. 270801
- 500 insulated end sleeves 0,75/8, grey, art. 270802
- 500 insulated end sleeves 1/8, red, art. 270805
- 500 insulated end sleeves 1,5/8, black, art. 270807
- 500 insulated end sleeves 2,5/8, blue, art. 270811
- 100 insulated end sleeves 4/10, grey, art. 270814
- 100 insulated end sleeves 6/12, yellow, 270818
- 200 insulated butt connectors 0,25-1,5, art. 260350
- 200 insulated butt connectors 1,5-2,5, art. 260352
- 100 insulated socket sleeves 0,25-1,5/6,3x0,8, art. 260392
- 100 insulated socket sleeves 1,5-2,5/6,3x0,8, art. 260394
- 100 insulated ring terminals 0,25-1,5, M5, art. 260258
- 100 insulated ring terminals 1,5-2,5, M4, art. 260270
- 100 insul. ring term. 1,5-2,5, M5, art. 260272
- 100 insul. ring term. 1,5-2,5, M6, art. 260274
- 100 insul. ring term. 0,25-1,5, M4, art. 260256



Art. no.	Content	type	kg	PU
270895	3800	DIN	4,300	1
270896	3800	I	4,300	1
270897	3800	II	4,300	1

End sleeve assortment - serie DIN

Content: 4.700 insulated end sleeves, in plastic bulk storage chest 420 x 350 x 60 mm.

- 100 Twin end sleeves 8/0,5, white, art. 270778
- 100 Twin end sleeves 8/0,75, grey, art. 270780
- 100 Twin end sleeves 8/1, red, art. 270784
- 100 Twin end sleeves 8/1,5, black, art. 270788
- 100 Twin end sleeves 10/2,5, blue, art. 270792
- 100 Twin end sleeves 12/4, grey, art. 270796
- 100 Twin end sleeves 14/6, yellow, art. 270797
- 100 Twin end sleeves 14/10, red, art. 270798
- 500 insulated end sleeves 8/0,5, white, art. 270801
- 500 insulated end sleeves 8/0,75, grey, art. 270802
- 500 insulated end sleeves 8/1, red, art. 270805
- 1000 insulated end sleeves 8/1,5, black, art. 270807
- 500 insulated end sleeves 8/2,5, blue, art. 270811
- 500 insul. end sleeves 10/4, grey, art. 270815
- 200 insul. end sleeves 10/6, yellow, art. 270818
- 200 insul. end sleeves 12/10, red, art. 270822



Art. no.	Content	kg	PU
270899	4700	2,150	1

End sleeve assortment

Content: 1.150 insulated end sleeves crimping pliers (art. no. 210824), crimp 0,75 - 16,0 mm², in plastic bulk storage chest 420 x 350 x 60 mm.

- 200 insulated end sleeves 8/0,75, grey, art. 270803
- 200 insulated end sleeves 8/1, red, art. 270804
- 200 insulated end sleeves 8/1,5, black, art. 270808
- 200 insulated end sleeves 8/2,5, blue, art. 270810
- 100 insulated end sleeves 10/4, grey, art. 270814
- 100 insulated end sleeves 12/6, yellow, art. 270818
- 100 insulated end sleeves 18/10, red, art. 270824
- 50 insulated end sleeves 18/16, blue, art. 270828



Art. no.	Content	type	kg	PU
270882/DIN	1150	DIN	1,740	1
270882	1150	I	1,700	1
270894	1150	II	2,150	1

SysCon end sleeves & 210804

Content: 4100 insulated end sleeves

- 1 220370 ABS plastic box „SysCon S“
- 1 220375 Assortment insert „SysCon“
- 1 220399 Foam „SysCon“ 400 x 300 x 10 mm
- 1 210804 Crimping pliers for end sleeves 0,08 - 10 mm²

1000	270805	insulated end sleeves, red	1/8
1000	270802	insulated end sleeves, grey	0,75/8
500	270807	insulated end sleeves, black	1,5/8
500	270811	insulated end sleeves, blue	2,5/8
500	270815	insulated end sleeves, grey	4/10
100	270818	insulated end sleeves, yellow	6/12
200	270788	Twin-end sleeves, black	1,5/8
200	270792	Twin-end sleeves, blue	2,5/10
100	270796	Twin-end sleeves, grey	4,0/12



Art. no.		kg	PU
220382		4,300	1

SysCon end sleeves & 210842

Content: 4950 insulated end sleeves

- 1 220370 ABS plastic box „SysCon S“
- 1 220399 Foam „SysCon“ 400 x 300 x 10 mm
- 1 220375 Assortment insert „SysCon“
- 1 210842 Crimping pliers for end sleeves 1 - 10 mm²

1000	270805	insulated end sleeves, red	1/8
1000	270807	insulated end sleeves, black	1,5/8
1000	270811	insulated end sleeves, blue	2,5/8
500	270815	insulated end sleeves, grey	4/10
200	270818	insulated end sleeves, yellow	6/12
200	270822	insulated end sleeves, red	10/12
500	270806	insulated end sleeves, red	1/12
300	270027	insulated end sleeves, black	1,5/18
250	270813	insulated end sleeves, blue	2,5/18



Art. no.		kg	PU
220390		4,300	1

Insulated crimp terminals



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 crimp systems.

Variety

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

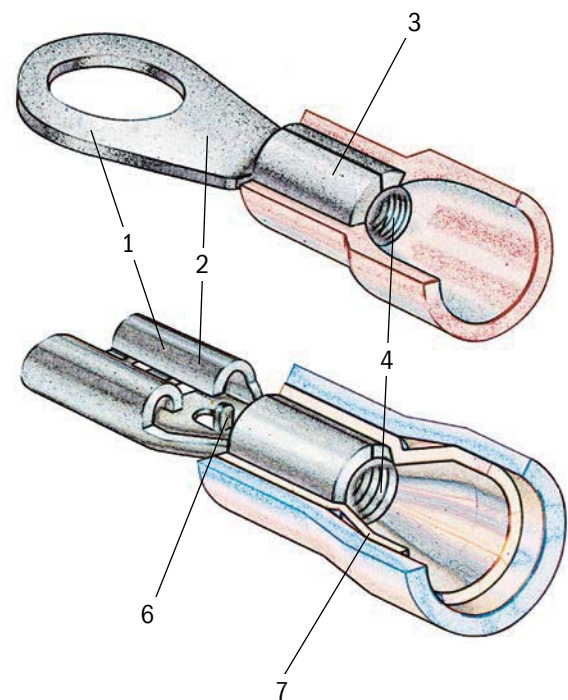
Insulation

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 crimp 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 crimp terminals Easy Entry

1. Sleeves, made of purest copper
2. Treated with processes of electrolytic tin plating
3. Hot treatment
4. Internal serration for the best most electric contact
5. Insulation Easy Entry sleeve
6. Cable stop
7. Copper sleeve Easy Entry: for quick wire insertions with no strand turn-back and a strong mechanical retention.

Funnel shaped insulating sleeve



Underwriters Laboratories Inc.
Listed File E338116, E336314

Ring terminals DIN 46237

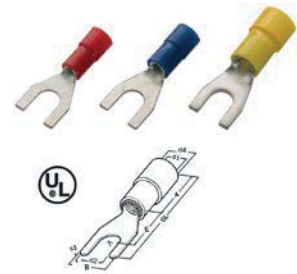
- of electrolytic copper, tin-plated • Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	M	d2	d1	d4	s1	A	TL	E	B	kg/100	PU	PU
260250	0,5-1,0	2,5	2,6	1,95	4,2	0,8	10,4	22,2	8,6	8,0	0,710	500	100
260252		3	3,2	1,95	4,2	0,8	10,4	15,4	4,4	5,5	0,072	500	100
260254		3,5	3,6	1,95	4,2	0,8	10,4	22,2	7,8	8,0	0,065	500	100
260256		4	4,2	1,95	4,2	0,8	10,4	22,0	7,5	8,0	0,079	500	100
260258		5	5,2	1,95	4,2	0,8	10,4	22,4	8,0	8,0	0,096	500	100
260260		6	6,2	1,95	4,2	0,8	10,4	23,7	8,6	10,0	0,106	500	100
260262	8	8,3	1,95	4,2	0,8	10,4	30,0	12,6	14,0	0,136	500	100	
260264	10	10,4	1,95	4,2	0,8	10,4	30,0	12,8	14,0	0,190	500	100	
260267	1,5-2,5	3	3,2	2,45	4,8	0,8	11,0	18,5	4,3	6,4	0,078	500	100
260268		3,5	3,7	2,45	4,8	0,8	11,0	23,0	8,0	8,0	0,078	500	100
260270		4	4,2	2,45	4,8	0,8	11,0	23,0	8,0	8,0	0,092	500	100
260272		5	5,2	2,45	4,8	0,8	11,0	26,0	9,8	10,0	0,111	500	100
260274		6	6,2	2,45	4,8	0,8	11,0	28,0	11,7	11,0	0,123	500	100
260276		8	8,2	2,45	4,8	0,8	11,0	33,0	14,5	15,0	0,147	500	100
260278	10	10,5	2,45	4,8	0,8	11,0	33,0	14,5	15,0	0,200	500	100	
260282	4-6	3,5	3,7	3,5	6,6	1,0	14,0	26,5	8,4	8,0	0,163	500	100
260284		4	4,2	3,5	6,6	1,0	14,0	26,5	8,4	8,0	0,168	500	100
260286		5	5,2	3,5	6,6	1,0	14,0	29,6	10,2	10,0	0,186	500	100
260288		6	6,2	3,5	6,6	1,0	14,0	30,6	11,0	11,0	0,196	500	100
260290		8	8,2	3,5	6,6	1,0	14,0	37,0	15,3	15,0	0,243	500	100
260292		10	10,5	3,5	6,6	1,0	14,0	40,0	16,5	19,0	0,299	500	100

Fork terminals DIN 46237

- of electrolytic copper, tin-plated • Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	M	d2	d1	d4	s1	A	TL	E	B	kg/100	PU	PU
260300	0,5-1,0	3	3,2	1,95	4,2	0,8	10,4	20,0	6,7	5,6	0,065	500	100
260302		3,5	3,7	1,95	4,2	0,8	10,4	19,4	6,5	6,5	0,065	500	100
260304		4	4,2	1,95	4,2	0,8	10,4	20,9	6,3	6,4	0,070	500	100
260306		5	5,2	1,95	4,2	0,8	10,4	21,2	8,0	8,0	0,092	500	100
260308		6	6,2	1,95	4,2	0,8	10,4	22,4	8,3	9,2	0,101	500	100
260310		1,5-2,5	3	3,2	2,45	4,8	0,8	11,0	23,0	8,4	5,6	0,079	500
260312	3,5		3,7	2,45	4,8	0,8	11,0	20,3	5,3	6,6	0,085	500	100
260314	4		4,2	2,45	4,8	0,8	11,0	20,3	5,3	6,6	0,084	500	100
260316	5		5,2	2,45	4,8	0,8	11,0	25,0	9,5	9,1	0,109	500	100
260318	6		6,3	2,45	4,8	0,8	11,0	27,0	11,2	10,0	0,118	500	100
260320	4,0-6,0		4	4,2	3,5	6,6	1,0	14,0	26,0	7,2	8,1	0,116	500
260322		5	5,2	3,5	6,6	1,0	14,0	28,5	10,5	9,0	0,179	500	100
260324		6	6,3	3,5	6,6	1,0	14,0	29,5	11,0	11,0	0,188	500	100
260326		8	8,2	3,5	6,6	1,0	14,0	35,2	15,0	15,2	0,229	500	100
260328		10	10,5	3,5	6,6	1,0	14,0	38,0	16,6	19,0	0,291	500	100

Socket sleeves (male) DIN 46231

- of electrolytic copper, tin-plated • Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

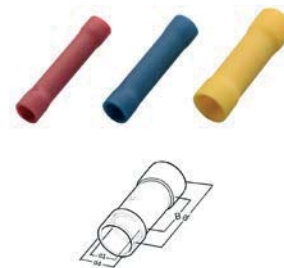


Art. no.	CSS	d1	d4	A	TL	E	B	kg/100	PU	PU
260330	0,5-1,0	1,7	4,2	10,4	19,4	9,0	2,8	0,058	500	100
260331		1,7	4,2	10,4	24,9	14,5	3,0	0,070	500	100
260332	1,5-2,5	2,3	4,8	10,4	19,4	9,0	2,8	0,066	500	100
260333		2,3	4,8	10,4	26,4	16,0	2,8	0,080	500	100
260334	4-6	3,4	6,8	13,5	23,5	10,0	2,8	0,120	500	100
260335		3,4	6,8	13,5	31,7	18,2	4,5	0,170	500	100

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Butt connectors

- of electrolytic copper, tin-plated • Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	d1	d4	A	TL	kg/100	PU	PU
260350	0,5-1,0	1,7	4,0	15	22,7	0,110	500	100
260352	1,5-2,5	2,3	4,5	15	22,7	0,130	500	100
260354	4,0-6,0	3,4	6,8	15	26,7	0,230	500	100

Parallel connectors

- of electrolytic copper, tin-plated • Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	d1	d4	A	TL	kg/100	PU	PU
260360	0,5-1,0	1,7	4,0	8,0	16,0	0,060	500	100
260362	1,5-2,5	2,3	4,5	8,0	16,0	0,080	500	100
260364	4,0-6,0	3,4	6,8	8,0	20,5	0,140	500	100

Round pins

- of electrolytic copper, tin-plated • Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	d1	d4	A	TL	E	B	kg/100	PU	PU
260370	0,5-1,0	1,95	4,20	10,4	22,4	12,0	1,8	0,070	500	100
260371		1,95	4,20	10,4	20,0	9,0	1,8	0,060	500	100
260372	1,5-2,5	2,45	4,8	11,0	23,0	12,0	1,8	0,080	500	100
260373		2,45	4,8	11,0	20,0	9,0	1,8	0,070	500	100
260374	4,0-6,0	3,5	6,6	14,0	28,0	14,0	2,6	0,170	500	100
260376	10	4,5	8,3	21,5	38,0	15,0	4,0	0,300	500	100

Socket sleeves (female)

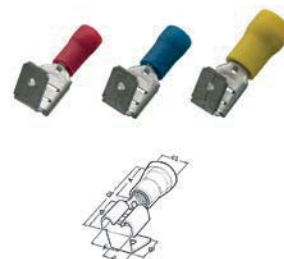
- Brass, tin-plated, PVC-insulated
- with vibration-free copper sleeve • Easy Entry



Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100	PU	PU
260380	0,5-1,0	2,8x0,5	3,5	9,5	17,9	6,4	3,2	PVC	0,070	500	100
260382		2,8x0,8	3,5	9,5	17,9	6,4	3,2	PVC	0,070	500	100
260384		4,8x0,5	3,5	9,5	18,7	6,0	5,0	PVC	0,080	500	100
260386		4,8x0,8	3,5	9,5	18,7	6,0	5,0	PVC	0,080	500	100
260400		5,2x0,8	3,5	9,5	18,7	6,4	5,5	PVC	0,090	500	100
260392		6,3x0,8	3,5	9,5	20,5	7,8	6,6	PVC	0,100	500	100
260388	1,5-2,5	4,8x0,5	4,3	9,5	18,7	6,0	5,0	PVC	0,090	500	100
260390		4,8x0,8	4,3	9,5	18,7	6,0	5,0	PVC	0,090	500	100
260402		5,2x0,8	4,3	9,5	18,7	6,4	5,5	PVC	0,090	500	100
260394		6,3x0,8	4,3	9,5	20,5	7,8	6,6	PVC	0,120	500	100
260396	4,0-6,0	6,3x0,8	6,2	13,5	24,5	7,8	6,6	PVC	0,190	500	100
260404		9,8x1,1	6,2	13,5	29,2	12,0	10,0	PVC	0,260	500	100

Socket sleeves (female) with branch

- Brass, tin-plated, PVC-insulated
- with vibration-free copper sleeve • Easy Entry



Art. no.	CSS	plug	d1	A	TL	A1	A2	B	material	kg/100	PU	PU
260410	0,5-1,0	6,3x0,8	3,5	9,5	22,2	6,6	8,0	7,8	PVC	0,140	500	100
260412	1,5-2,5	6,3x0,8	4,3	9,5	22,2	6,8	8,0	7,8	PVC	0,150	500	100
260411	4,0-6,0	6,3x0,8	4,3	9,5	22,2	6,8	8,0	7,8	PVC	0,280	500	100

Socket sleeves (female), fully-insulated

- Brass, tin-plated, PVC-insulated
- with vibration-free copper sleeve • Easy Entry



Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100	PU
260414	0,5-1,0	6,3x0,8	2,7	11,0	22,0	6,8	6,6	PVC	0,129	500 100
260415		4,8x0,8	2,7	11,0	20,0	6,0	5,0	PVC	0,100	500 100
260416	1,5-2,5	6,3x0,8	3,2	11,0	22,0	6,8	6,6	PVC	0,130	500 100
260417		4,8x0,8	3,2	11,0	20,0	6,0	5,0	PVC	0,110	500 100
260418	4,0-6,0	6,3x0,8	3,8	14,0	25,0	6,8	6,6	PVC	0,220	500 100



Flat terminals

- Brass, tin-plated, PVC-insulated
- with vibration-free copper sleeve • Easy Entry



Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100	PU
260510	0,5-1,0	2,8x0,5	3,8	10,5	19,2	6,5	2,8	PVC	0,060	500 100
260512		2,8x0,8	3,8	10,5	19,2	6,5	2,8	PVC	0,065	500 100
260514		4,8x0,5	3,8	10,5	19,2	6,5	4,8	PVC	0,075	500 100
260516		4,8x0,8	3,8	10,5	19,2	6,7	4,8	PVC	0,080	500 100
260422		6,3x0,8	3,5	10,0	20,5	7,7	6,3	PVC	0,090	500 100
260518	1,5-2,5	4,8x0,5	3,8	10,5	19,2	6,5	4,8	PVC	0,085	500 100
260520		4,8x0,8	3,8	10,5	19,2	6,7	4,8	PVC	0,090	500 100
260424		6,3x0,8	4,0	10,0	20,5	7,7	6,3	PVC	0,100	500 100
260426	4,0-6,0	6,3x0,8	5,5	13,5	24,5	7,7	6,3	PVC	0,180	500 100



Round terminals

- of electrolytic copper, tin-plated • Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100	PU
260446	0,5-1,0	4 mm	3,5	9,5	20,2	8,7	4,0	PVC	0,090	500 100
260448	1,5-2,5	5 mm	4,3	9,5	20,7	8,7	5,0	PVC	0,110	500 100
260449		4 mm	4,3	9,5	20,2	8,7	4,0	PVC	0,100	500 100
260450	4,0-6,0	5 mm	6,5	13,5	25,0	10,0	5,0	PVC	0,170	500 100



Round sleeves

- of electrolytic copper, tin-plated • Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100	PU
260440	0,5-1,0	4 mm	3,5	9,5	20,2	8,7	4,0	PVC	0,130	500 100
260442	1,5-2,5	5 mm	4,3	9,5	20,7	8,7	5,0	PVC	0,150	500 100
260443		4 mm	4,3	9,5	20,2	8,7	4,0	PVC	0,130	500 100
260444	4,0-6,0	5 mm	6,5	13,0	25,0	12,0	5,0	PVC	0,250	500 100



End connectors

- of electrolytic copper, tin-plated
- Nylon-insulated

Art. no.	CSS	d1	d4	A	TL	B	kg/100	PU
260427	0,5-1,0	6,2	2,2	8,0	15,2	5,0	0,060	500 100
260428	1,5-2,5	6,5	2,5	8,0	15,2	5,9	0,065	500 100
260430	4,0-6,0	9,4	3,5	8,5	17,8	7,3	0,125	500 100
260431	10	12,0	4,6	9,5	22,2	9,3	0,260	500 100



Rapid connectors

- of electrolytic copper, tin-plated
- Polypropylene

Art. no.	CSS	A	TL	kg/100	PU
260336	0,5-1,0	13,5	20,0	0,130	100
260500		13,5	20,5	0,100	100
260337	1,5-2,5	13,5	20,5	0,130	100
260502		17,0	10,0	0,120	100
260338	4,0-6,0	17,0	10,0	0,290	100
260504		17,0	10,0	0,140	100



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Ring terminals DIN 46237

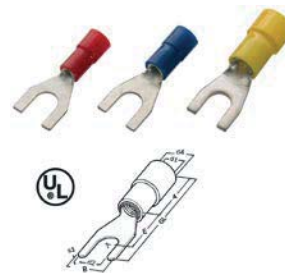
- of electrolytic copper, tin-plated • Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	M	d2	d1	d4	s1	A	TL	E	B	kg/100	PU	PU
260650	0,5-1,0	2,5	2,6	1,95	4,2	0,8	10,4	22,2	8,6	8,0	0,072	500	100
260651		3	3,2	1,95	4,2	0,8	10,4	22,2	8,6	8,0	0,070	500	100
260654		3,5	3,6	1,95	4,2	0,8	10,4	22,2	7,8	8,0	0,067	500	100
260656	1,5-2,5	4	4,2	1,95	4,2	0,8	10,4	22,0	7,5	8,0	0,079	500	100
260658		5	5,2	1,95	4,2	0,8	10,4	22,4	8,0	8,0	0,096	500	100
260660		6	6,2	1,95	4,2	0,8	10,4	23,7	8,6	10,0	0,105	500	100
260662	4,0-6,0	8	8,3	1,95	4,2	0,8	10,4	30,0	12,6	14,0	0,136	500	100
260664		10	10,4	1,95	4,2	0,8	10,4	30,0	12,8	14,0	0,103	500	100
260665		2,5	2,6	2,45	4,8	0,8	11,0	23,0	8,0	8,0	0,100	500	100
260666	1,5-2,5	3	3,2	2,45	4,8	0,8	11,0	23,0	8,0	8,0	0,110	500	100
260667		3,5	3,7	2,45	4,8	0,8	11,0	23,0	8,0	8,0	0,080	500	100
260670		4	4,2	2,45	4,8	0,8	11,0	23,0	8,0	8,0	0,088	500	100
260672	4,0-6,0	5	5,2	2,45	4,8	0,8	11,0	26,0	9,8	10,0	0,107	500	100
260674		6	6,2	2,45	4,8	0,8	11,0	28,0	11,7	11,0	0,120	500	100
260676		8	8,2	2,45	4,8	0,8	11,0	33,0	14,5	15,0	0,142	500	100
260678	4,0-6,0	10	10,5	2,45	4,8	0,8	11,0	33,0	14,5	15,0	0,133	500	100
260682		3,5	3,7	3,5	6,6	1,0	14,0	26,5	8,4	8,0	0,150	500	100
260684		4	4,2	3,5	6,6	1,0	14,0	26,5	8,4	8,0	0,165	500	100
260686	4,0-6,0	5	5,2	3,5	6,6	1,0	14,0	29,6	10,2	10,0	0,182	500	100
260688		6	6,2	3,5	6,6	1,0	14,0	30,6	11,0	11,0	0,190	500	100
260690		8	8,2	3,5	6,6	1,0	14,0	37,0	15,3	15,0	0,237	500	100
260692	4,0-6,0	10	10,5	3,5	6,6	1,0	14,0	40,0	16,5	19,0	0,311	500	100

Fork terminals DIN 46237

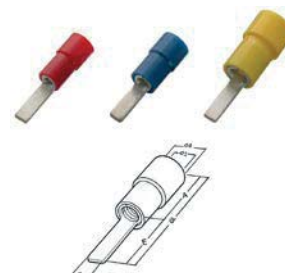
- of electrolytic copper, tin-plated • Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	M	d2	d1	d4	s1	A	TL	E	B	kg/100	PU	PU
260700	0,5-1,0	3	3,2	1,95	4,2	0,8	10,4	20,0	6,7	5,6	0,068	500	100
260702		3,5	3,7	1,95	4,2	0,8	10,4	19,4	6,5	6,5	0,066	500	100
260704		4	4,2	1,95	4,2	0,8	10,4	20,9	6,3	6,4	0,071	500	100
260706	1,5-2,5	5	5,2	1,95	4,2	0,8	10,4	21,2	8,0	8,0	0,092	500	100
260708		6	6,2	1,95	4,2	0,8	10,4	22,4	8,3	9,2	0,080	500	100
260710		3	3,2	2,45	4,8	0,8	11,0	23,0	8,4	5,6	0,079	500	100
260712	4,0-6,0	3,5	3,7	2,45	4,8	0,8	11,0	20,3	5,3	6,6	0,086	500	100
260714		4	4,2	2,45	4,8	0,8	11,0	20,3	5,3	6,6	0,084	500	100
260716		5	5,2	2,45	4,8	0,8	11,0	25,0	9,5	9,1	0,110	500	100
260718	4,0-6,0	6	6,3	2,45	4,8	0,8	11,0	27,0	11,2	10,0	0,170	500	100
260721		4	4,2	3,5	6,6	1,0	14,0	26,0	7,2	8,1	0,157	500	100
260722		5	5,2	3,5	6,6	1,0	14,0	28,5	10,5	9,0	0,179	500	100
260724	4,0-6,0	6	6,3	3,5	6,6	1,0	14,0	29,5	11,0	11,0	0,190	500	100
260726		8	8,2	3,5	6,6	1,0	14,0	35,2	15,0	15,2	0,230	500	100
260728		10	10,5	3,5	6,6	1,0	14,0	38,0	16,6	19,0	0,273	500	100

Socket sleeves (male) DIN 46231

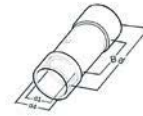
- of electrolytic copper, tin-plated • Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	d1	d4	A	TL	E	B	kg/100	PU	PU
260730	0,5-1,0	1,7	4,2	10,4	19,4	9,0	2,8	0,059	500	100
260731		1,7	4,2	10,4	24,9	14,5	3,0	0,072	500	100
260732	1,5-2,5	2,3	4,8	10,4	19,4	9,0	2,8	0,067	500	100
260733		2,3	4,8	10,4	26,4	16,0	2,8	0,084	500	100
260734	4,0-6,0	3,4	6,8	13,5	23,5	10,0	2,8	0,160	500	100
260735		3,4	6,8	13,5	31,7	18,2	4,5	0,173	500	100

Butt connectors

- of electrolytic copper, tin-plated • Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	d1	d4	A	TL	kg/100	PU
260750	0,5-1,0	1,7	4,0	15,0	22,7	0,103	500 100
260752	1,5-2,5	2,3	4,5	15,0	22,7	0,128	500 100
260754	4,0-6,0	3,4	6,8	15,0	26,7	0,221	500 100

Parallel connectors

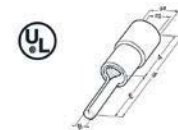
- of electrolytic copper, tin-plated • Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	d1	d4	A	TL	kg/100	PU
263360	0,5-1,0	1,7	4,0	8,0	16,0	0,069	500 100
263362	1,5-2,5	2,3	4,5	8,0	16,0	0,080	500 100
263364	4,0-6,0	3,4	6,8	8,0	16,0	0,150	500 100

Round pins

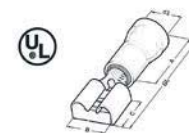
- of electrolytic copper, tin-plated • Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	d1	d4	A	TL	E	B	kg/100	PU
260770	0,5-1,0	1,95	4,2	10,4	22,0	12	1,9	0,072	500 100
260771		1,95	4,2	10,4	20,0	9,0	1,9	0,064	500 100
260772	1,5-2,5	2,45	4,8	11,0	23,0	12,0	1,9	0,079	500 100
260773		2,45	4,8	11,0	20,0	9,0	1,9	0,074	500 100
260774	4,0-6,0	3,6	6,6	14,0	28,0	14,0	2,7	0,078	500 100

Socket sleeves (female)

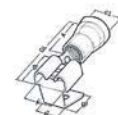
- Brass, tin-plated, Nylon-insulated
- with vibration-free copper sleeve • Easy Entry



Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100	PU
263380	0,5-1,0	2,8x0,5	3,5	9,5	17,9	6,4	3,2	Nylon	0,070	500 100
263382		2,8x0,8	3,5	9,5	17,9	6,4	3,2	Nylon	0,077	500 100
263384		4,8x0,5	3,5	9,5	18,7	6,0	5,0	Nylon	0,080	500 100
263386		4,8x0,8	3,5	9,5	18,7	6,0	5,0	Nylon	0,080	500 100
263400		5,2x0,8	3,5	9,5	18,7	6,4	5,5	Nylon	0,090	500 100
263392		6,3x0,8	3,5	9,5	20,5	7,8	6,6	Nylon	0,100	500 100
263388	1,5-2,5	4,8x0,5	4,3	9,5	18,7	6,0	5,0	Nylon	0,090	500 100
263393		4,8x0,8	4,3	9,5	18,7	6,0	5,0	Nylon	0,100	500 100
263402		5,2x0,8	4,3	9,5	18,7	6,4	5,5	Nylon	0,090	500 100
263394		6,3x0,8	4,3	9,5	20,5	7,8	6,6	Nylon	0,110	500 100
263396	4,0-6,0	6,3x0,8	6,2	13,5	24,5	7,8	6,6	Nylon	0,190	500 100
263404		9,5x1,2	6,2	13,5	29,2	12,0	10,0	Nylon	0,260	500 100

Socket sleeves (female) with branch

- Brass, tin-plated, Nylon-insulated
- with vibration-free copper sleeve • Easy Entry



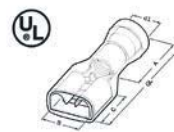
Art. no.	CSS	plug	d1	A	TL	A1	A2	B	material	kg/100	PU
263410	0,5-1,0	6,3x0,8	3,5	9,5	22,2	6,8	8	7,8	Nylon	0,140	500 100
263412	1,5-2,5	6,3x0,8	4,3	9,5	22,2	6,8	8,0	7,8	Nylon	0,150	500 100
263413	4,0-6,0	6,3x0,8	4,3	9,5	22,2	6,8	8,0	7,8	Nylon	0,200	500 100

Socket sleeves (female), fully-insulated

- Brass, tin-plated, Nylon-insulated
- with vibration-free copper sleeve - Easy Entry



Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100	PU	PU
263451	0,5-1,0	2,8x0,5	4,0	11,0	19,5	6,5	3,2	Nylon	0,085	500	100
263452		2,8x0,8	4,0	11,0	19,5	6,5	3,2	Nylon	0,086	500	100
263453		4,8x0,5	4,0	11,0	20,2	6,4	5,0	Nylon	0,088	500	100
263414		6,3x0,8	4,0	11,0	21,5	7,5	6,6	Nylon	0,120	500	100
263415	1,5-2,5	4,8x0,8	4,0	11,0	20,2	6,4	5,0	Nylon	0,100	500	100
263456		4,8x0,5	5,0	11,0	20,2	6,4	5,0	Nylon	0,104	500	100
263416		6,3x0,8	5,0	11,0	21,5	7,5	6,6	Nylon	0,130	500	100
263417		4,8x0,8	5,0	11,0	20,2	6,4	5,0	Nylon	0,110	500	100
263418	4,0-6,0	6,3x0,8	6,5	13,0	24,2	7,5	6,6	Nylon	0,220	500	100

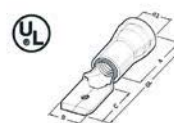


Flat terminals

- Brass, tin-plated, Nylon-insulated
- with vibration-free copper sleeve - Easy Entry



Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100	PU	PU
263510	0,5-1,0	2,8x0,5	3,8	10,5	19,2	6,5	2,8	Nylon	0,068	500	100
263512		2,8x0,8	3,5	10,5	19,2	6,5	2,8	Nylon	0,066	500	100
263514		4,8x0,5	3,8	10,5	10,5	6,5	4,8	Nylon	0,076	500	100
263516		4,8x0,8	3,8	10,5	19,2	6,7	4,8	Nylon	0,077	500	100
263422	1,5-2,5	6,3x0,8	3,5	10,0	20,5	7,7	6,3	Nylon	0,090	500	100
263518		4,8x0,5	3,8	10,5	19,2	6,5	4,8	Nylon	0,080	500	100
263520		4,8x0,8	3,8	10,5	19,2	6,7	4,8	Nylon	0,086	500	100
263424		6,3x0,8	4,0	10,0	20,5	7,7	6,3	Nylon	0,100	500	100
263426	4,0-6,0	6,3x0,8	5,5	13,5	24,5	7,7	6,3	Nylon	0,180	500	100



Round sleeves

- of electrolytic copper, tin-plated • Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100	PU	PU
263440	0,5-1,0	4	3,5	9,5	20,2	8,7	4,0	Nylon	0,130	500	100
263442	1,5-2,5	5	4,3	9,5	20,7	8,7	5,0	Nylon	0,150	500	100
263443		4	4,3	9,5	20,2	8,7	4,0	Nylon	0,130	500	100
263444	4,0-6,0	5	6,5	13,0	25,0	12,0	5,0	Nylon	0,200	500	100

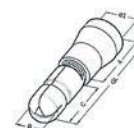


Round terminals

- of electrolytic copper, tin-plated • Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables



Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100	PU	PU
263446	0,5-1,0	4	3,5	9,5	20,2	8,7	4,0	Nylon	0,090	500	100
263448	1,5-2,5	5	4,3	9,5	20,7	8,7	5,0	Nylon	0,110	500	100
263449		4	4,3	9,5	20,2	8,7	4,0	Nylon	0,100	500	100
263450	4,0-6,0	5	6,5	13,5	25,0	10,0	5,0	Nylon	0,200	500	100



INFO

Shrinkable connectors

These shrinkable connectors are an insulated connecting element for the production of cable connections and circuit points. Their outstanding properties are based on the use of a Polyolefin shrinkable tube, which is coated with a special adhesive on the inside, which protects the metal crimp connections from environmental influences. These connectors or terminal clamps are used wherever a reliable connection is needed under severe environmental conditions. The shrinkable connectors of the HAUPA-SHRINK series combine crimp technology with the completely waterproof shrink technology in one part: crimp first - then shrink and make waterproof!

USE: To create simple, durable and weatherproof electrical connections. Particularly suitable well as in the motor vehicle, agricultural machinery and commercial vehicle sector.

SPECIAL FEATURE: The fusible inside adhesive cover provides excellent durability and is safer than traditional connectors.

SUITABLE FOR MAKING WATERPROOF CONNECTIONS: • Shrink ratio 3:1 • Shrink temperature: >+125°C • Temperature resistance: -55°C to + 125°C

• Insulating sleeve: Polyolefin with inside adhesive • Non-halogen • RoHS conform • No additional insulating and sealing required • Waterproof splice connection • Space-saving and compact • Extremely high strain relief • Easy installation • Full visual testing possible

INSTRUCTIONS: The connector is crimped and then shrunk using a hot air blower (with deflector page 128).

The connection Check whether the fusible inside adhesive comes out on the sides to ensure optimal tightness.



Shrinkable connectors, Polyolefin-insulated

RoHS

Butt connectors

- Copper, tin-plated • Insulating cover: Polyolefin with inside adhesive
- RoHS conform

Art. no.	CSS	A	TL	kg/100	PU
363500	0,5-1,0	14	36	0,120	500 100
363502	1,5-2,5	15	36	0,132	500 100
363504	4,0-6,0	15	41	0,300	500 100

Socket sleeves (female)

- Brass, tin-plated • Insulating cover: Polyolefin with inside adhesive
- RoHS conform

Art. no.	CSS	plug	TL	B	kg/100	PU
363510	0,5-1,0	6,3x0,8	30,0	6,6	0,129	500 100
363512	1,5-2,5	6,3x0,8	30,0	6,6	0,138	500 100
363514	4,0-6,0	6,3x0,8	30,0	6,6	0,200	500 100

Flat terminals

- Brass, tin-plated • Insulating cover: Polyolefin with inside adhesive
- RoHS conform

Art. no.	CSS	plug	TL	B	kg/100	PU
363520	0,5-1,0	6,3x0,8	30,0	6,6	0,092	500 100
363522	1,5-2,5	6,3x0,8	30,0	6,6	0,106	500 100
363524	4,0-6,0	6,3x0,8	30,0	6,6	0,159	500 100

Ring terminals

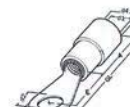
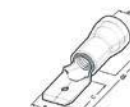
- Copper, tin-plated • Insulating cover: Polyolefin with inside adhesive
- RoHS conform

Art. no.	CSS	M	d2	TL	B	kg/100	PU
363530	0,5-1,0	4	4,3	28,5	8,0	0,073	500 100
363532		5	5,3	28,5	8,0	0,066	500 100
363534		6	6,5	34,5	11,6	0,104	500 100
363536		8	8,4	34,5	11,6	0,089	500 100
363538		10	10,5	37,5	13,6	0,112	500 100
363540	1,5-2,5	4	4,3	30,5	8,5	0,085	500 100
363542		5	5,3	30,5	9,5	0,083	500 100
363544		6	6,5	35,5	12,0	0,122	500 100
363546		8	8,4	35,5	12,0	0,118	500 100
363548		10	10,5	37,5	13,6	0,128	500 100
363550	4,0-6,0	4	4,3	34,2	9,5	0,173	500 100
363552		5	5,3	34,0	9,5	0,172	500 100
363554		6	6,5	37,5	12,0	0,201	500 100
363556		8	8,4	42,0	15,0	0,251	500 100
363558		10	10,5	42,0	15,0	0,226	500 100

Welded shrink connector

- Copper, tin-plated • Insulating cover: Polyolefin with inside adhesive
- RoHS conform

Art. no.	CSS	kg/100	PU
363600	0,5-1,0	0,090	1
363602	1,5-2,5	0,110	1
363604	4,0-6,0	0,160	1



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haupa®

...convincing solutions

Assortment of insulated terminals

Content: 1.250 crimping terminals, crimping pliers (art. 210761), crimp 0,5 - 6,0 mm², in plastic bulk storage chest 420 x 350 x 60 mm.

- 100 insulated ring terminals 0,25-1,5, M3, art. 260252
- 100 insulated ring terminals 0,25-1,5, M4, art. 260256
- 100 insulated ring terminals 0,25-1,5, M5, art. 260258
- 100 insulated ring terminals 1,5-2,5, M4, art. 260270
- 100 insulated ring terminals 1,5-2,5, M5, art. 260272
- 50 insulated ring terminals 1,5-2,5, M6, art. 260274
- 100 insulated ring terminals 2,5-6, M5, art. 260286
- 50 insulated ring terminals 2,5-6, M6, art. 260288
- 50 insulated fork type 0,25-1,5, M4, art. 260304
- 50 insulated fork type 1,5-2,5, M4, art. 260314
- 50 insulated fork type 2,5-6, M5, art. 260322
- 50 insulated butt connectors 0,25-1,5, art. 260350
- 50 insulated butt connectors 1,5-2,5, art. 260352
- 50 insulated butt connectors 2,5-6, art. 260354
- 50 insulated round pin 0,25-1,5, art. 260370
- 50 insulated round pin 1,5-2,5, art. 260372
- 50 insulated round pin 2,5-6, art. 260374
- 50 insulated socket sleeves 1,5-2,5/6,3x0,8, art. 260394
- 50 insulated flat terminals 1,5-2,5/6,3x0,8, art. 260424



Art. no.	Content	Insulation	kg	PU
260762	1250	PVC	3,139	1

Assortment of insulated terminals

Content: 1250 insulated terminals, 1 crimping pliers (art. 210802), press range 1.5 - 6 mm², in plastic bulk storage chest.

- 100 insulated ring terminals 0,25-1,5, M3, art. 260252
- 100 insulated ring terminals 0,25-1,5, M4, art. 260256
- 100 insulated ring terminals 0,25-1,5, M5, art. 260258
- 100 insulated ring terminals 1,5-2,5, M4, art. 260270
- 100 insulated ring terminals 1,5-2,5, M5, art. 260272
- 50 insulated ring terminals 1,5-2,5, M6, art. 260274
- 100 insulated ring terminals 2,5-6, M5, art. 260286
- 50 insulated ring terminals 2,5-6, M6, art. 260288
- 50 insulated fork type 0,25-1,5, M4, art. 260304
- 50 insulated fork type 1,5-2,5, M4, art. 260314
- 50 insulated fork type 2,5-6, M5, art. 260322
- 50 insulated butt connectors 0,25-1,5, art. 260350
- 50 insulated butt connectors 1,5-2,5, art. 260352
- 50 insulated butt connectors 2,5-6, art. 260354
- 50 insulated round pin 0,25-1,5, art. 260370
- 50 insulated round pin 1,5-2,5, art. 260372
- 50 insulated round pin 2,5-6, art. 260374
- 50 insulated socket sleeves 1,5-2,5/6,3x0,8, art. 260394
- 50 insulated flat terminals 1,5-2,5/6,3x0,8, art. 260424



Art. no.	Content	Insulation	kg	PU
260764	1250	PVC	210802 3,278	1
262048	1250	PVC	- 3,400	1

Assortment of insulated terminals

Content: 1.200 Crimping terminals, 1 crimping pliers for insulated crimping terminals (art. 210761), range 0.5 - 6 mm² in plastic bulk storage chest.

- 100 insulated ring terminals 0,25-1,5, M4, art. 260256
- 100 insulated ring terminals 0,25-1,5, M5, art. 260258
- 100 insulated ring terminals 0,25-1,5, M6, art. 260260
- 100 insulated ring terminals 1,5-2,5, M4, art. 260270
- 100 insulated ring terminals 1,5-2,5, M5, art. 260272
- 100 insulated ring terminals 1,5-2,5, M6, art. 260274
- 100 insulated ring terminals 2,5-6, M5, art. 260286
- 100 insulated ring terminals 2,5-6, M6, art. 260288
- 100 insulated ring terminals 2,5-6, M8, art. 260290
- 100 insulated butt connectors 0,25-1,5, art. 260350
- 100 insulated butt connectors 1,5-2,5, art. 260352
- 100 insulated butt connectors 2,5-6, art. 260354



Art. no.	Content	Insulation	kg	PU
260765	1200	PVC	3,367	1

Assortment of insulated terminals

Content: 1.200 crimping terminals, crimping pliers (art. 210802), crimp 0,5 - 6,0 mm², in plastic bulk storage chest 420 x 350 x 60 mm.

- 100 insulated ring terminals 0,25-1,5, M4, art. 260256
- 100 insulated ring terminals 0,25-1,5, M5, art. 260258
- 100 insulated ring terminals 0,25-1,5, M6, art. 260260
- 100 insulated ring terminals 1,5-2,5, M4, art. 260270
- 100 insulated ring terminals 1,5-2,5, M5, art. 260272
- 100 insulated ring terminals 1,5-2,5, M6, art. 260274
- 100 insulated ring terminals 2,5-6, M5, art. 260286
- 100 insulated ring terminals 2,5-6, M6, art. 260288
- 100 insulated ring terminals 2,5-6, M8, art. 260290
- 100 insulated butt connectors 0,25-1,5, art. 260350
- 100 insulated butt connectors 1,5-2,5, art. 260352
- 100 insulated butt connectors 2,5-6, art. 260354



Art. no.	Content	Insulation	kg	PU
260777	1200	PVC	2,980	1

SysCon insulated terminals & 210761

Content: 1500 insulated terminals

- 1 220370 ABS plastic box „SysCon S“
- 1 220375 Assortment insert „SysCon“
- 1 220399 Foam „SysCon“ 400 x 300 x 10 mm
- 1 210761 Crimping pliers for insulated terminals 0,5 - 6 mm²

200	260350	Butt connectors, red	0,5/1,0	PVC
200	260352	Butt connectors, blue	1,5/2,5	PVC
100	260354	Butt connectors, yellow	4,0/6,0	PVC
200	260256	Ring terminals, red	0,5/1,0 M4	PVC
200	260258	Ring terminals, red	0,5/1,0 M5	PVC
200	260270	Ring terminals, blue	1,5/2,5 M4	PVC
200	260272	Ring terminals, blue	1,5/2,5 M5	PVC
100	260288	Ring terminals, yellow	4,0/6,0 M6	PVC
100	260290	Ring terminals, yellow	4,0/6,0 M8	PVC



Art. no.	Insulation	kg	PU
220381	PVC	4,300	1

SysCon insulated terminals / end sleeves & 210784

Content: insulated terminals and end sleeves

- 1 220370 ABS plastic box „SysCon S“
- 1 220375 Assortment insert „SysCon“
- 1 220399 Foam „SysCon“ 400 x 300 x 10 mm
- 1 210784 Crimping pliers for insulated terminals and end sleeves

200	260350	Butt connectors, red	0,5-1,0	PVC
200	260352	Butt connectors, blue	1,5-2,5	PVC
200	260256	Ring terminals, red	0,5-1,0 M4	PVC
200	260272	Ring terminals, blue	1,5-2,5 M5	PVC
200	260274	Ring terminals, blue	1,5-2,5 M6	PVC
1000	270807	End sleeves, black	1,5/8	
1000	270811	End sleeves, blue	2,5/8	
500	270815	End sleeves, grey	4/10	
200	270818	End sleeves, yellow	6/12	

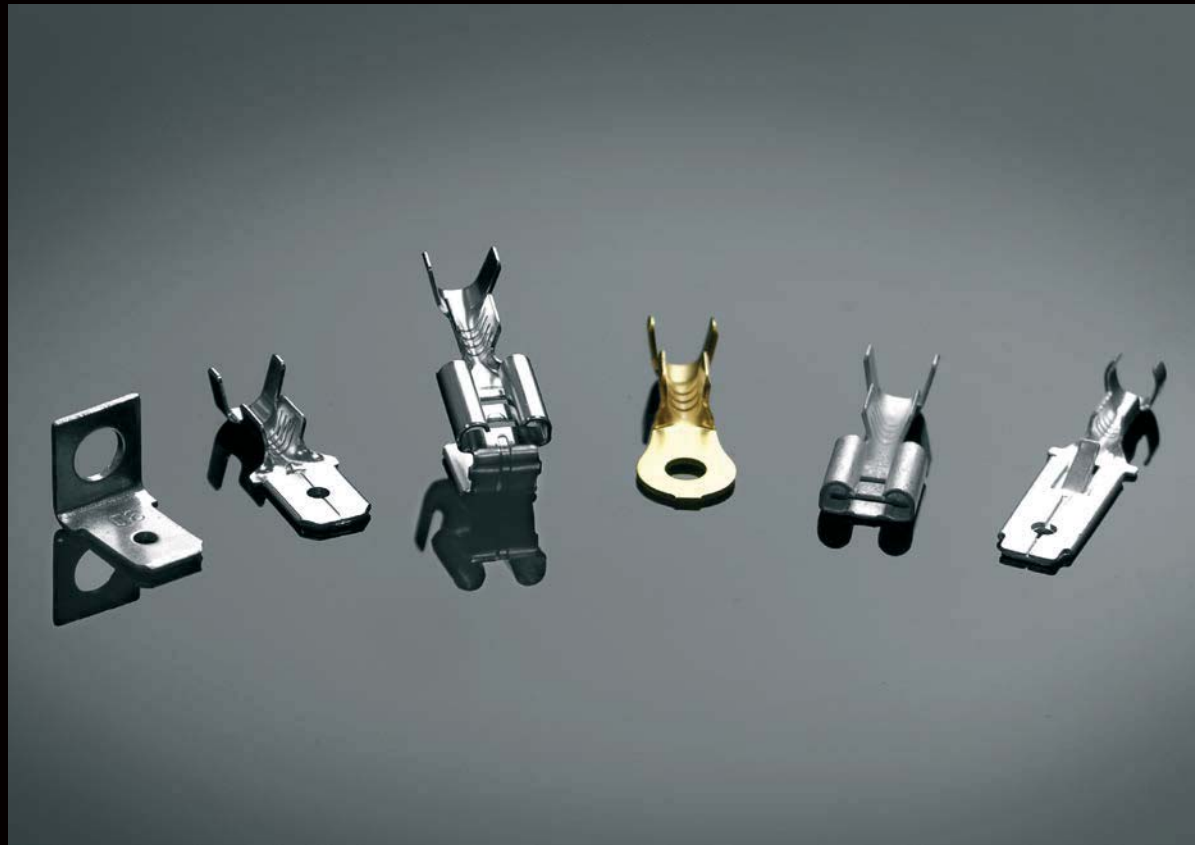


Art. no.	Insulation	kg	PU
220391	PVC	4,300	1

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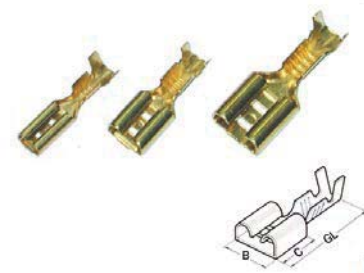
Socket sleeves



Socket sleeves (female) with cable stop

- bare brass
- not insulated, to DIN 46247/part 1 - 3 and similar

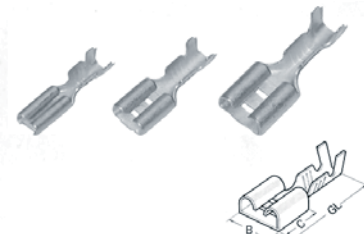
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280000	0,5-1	6,3x0,8	19,2	7,6	7,6	0,073	200
280004	1-2,5	6,3x0,8	19,2	7,6	7,6	0,079	200
280008	0,5-1,25	4,8x0,8	15,0	6,4	5,6	0,075	200
280012		4,8x0,5	15,0	6,4	5,6	0,043	200
280016		2,8x0,8	16,0	6,4	3,75	0,040	200
280020		2,8x0,5	16,0	6,4	3,75	0,020	200



Socket sleeves (female) with cable stop

- bare brass
- not insulated, to DIN 46247/part 1 - 3 and similar

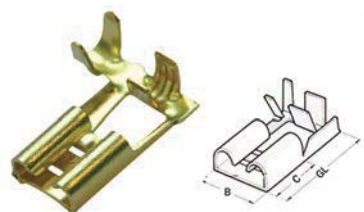
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280030	0,5-1,0	6,3x0,8	19,2	7,6	7,6	0,073	200
280034	1,0-2,5	6,3x0,8	19,2	7,6	7,6	0,038	200
280038	0,5-1,25	4,8x0,8	15,0	6,4	5,6	0,0410	200
280042		4,8x0,5	15,0	6,4	5,6	0,027	200
280046		2,8x0,8	16,0	6,4	3,75	0,023	200
280050		2,8x0,5	16,0	6,4	3,75	0,027	200



Socket sleeves (female) with cable stop

- bare brass
- not insulated, to DIN 46247/part 1 - 3 and similar

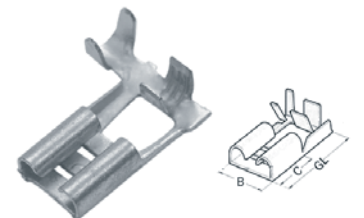
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280060	0,5-1,25	6,3x0,8	14,1	7,6	7,6	0,073	200
280064	1,0-2,5	6,3x0,8	14,1	7,6	7,6	0,078	200



Socket sleeves (female) with cable stop

- bare brass
- not insulated, to DIN 46247/part 1 - 3 and similar

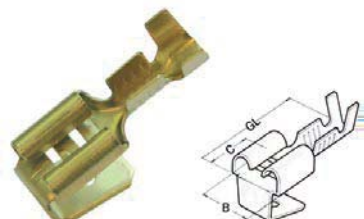
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280070	0,5-1,0	6,3x0,8	14,1	7,6	7,6	0,075	200
280074	1,0-2,5	6,3x0,8	14,1	7,6	7,6	0,078	200



Socket sleeves (female) with cable stop

- bare brass
- not insulated, to DIN 46247/part 1 - 3 and similar

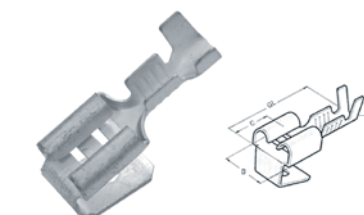
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280080	0,5-1,0	6,3x0,8	19,6	7,7	7,6	0,108	200
280084	1,0-2,5	6,3x0,8	16,2	7,7	7,6	0,103	200



Socket sleeves (female) with cable stop

- bare brass
- not insulated, to DIN 46247/part 1 - 3 and similar

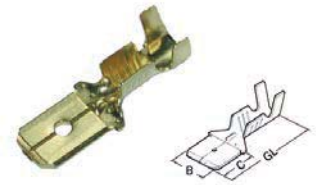
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280090	0,5-1,0	6,3x0,8	19,6	7,7	7,6	0,110	200
280094	1,0-2,5	6,3x0,8	16,2	7,7	7,6	0,112	200



Flat terminals

- bare brass
- uninsulated

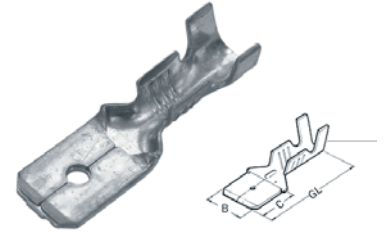
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280100	0,5-1,0	6,3x0,8	20,6	6,35	6,3	0,055	200
280104	1,0-2,5	6,3x0,8	17,2	6,35	6,3	0,057	200



Flat terminals

- tin-plated brass
- uninsulated

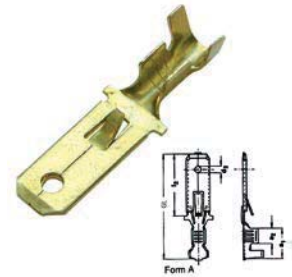
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280110	0,5-1,0	6,3x0,8	20,6	6,35	6,3	0,054	200
280114	1,0-2,5	6,3x0,8	17,2	6,35	6,3	0,057	200



Socket sleeves (male) with latching tongue

- bare brass
- uninsulated

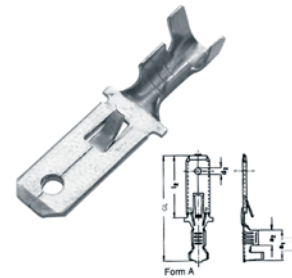
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280101	0,5-1,0	6,3x0,8	20,6	6,35	6,3	0,200	200
280105	1,0-2,5	6,3x0,8	17,2	6,35	6,3	0,085	200



Socket sleeves (male) with latching tongue

- tin-plated brass
- uninsulated

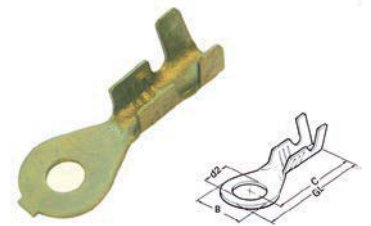
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280111	0,5-1,0	6,3x0,8	20,6	6,35	6,3	0,082	200
280115	1,0-2,5	6,3x0,8	17,2	6,35	6,3	0,089	200



Ring terminals

- bare brass
- uninsulated

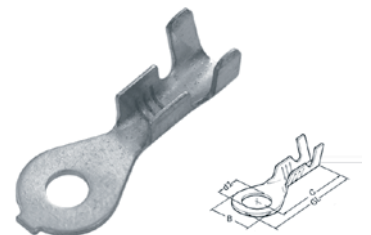
Art. no.	CSS	M	d2	TL	B	kg/100	PU
280120	0,5-1,0	3	3,2	21,0	8,0	0,054	200
280124		4	4,3	21,0	8,0	0,038	200
280128		5	5,08	22,0	9,5	0,068	200
280132	1,0-2,5	3	3,2	21,0	8,0	0,076	200
280136		4	4,3	21,0	8,0	0,046	200
280140		5	5,08	22,0	9,5	0,045	200



Ring terminals

- tin-plated brass
- uninsulated

Art. no.	CSS	M	d2	TL	B	kg/100	PU
280150	0,5-1,0	3	3,2	21,0	8,0	0,057	200
280154		4	4,3	21,0	8,0	0,040	200
280158		5	5,08	22,0	9,5	0,056	200
280162	1,0-2,5	3	3,2	21,0	8,0	0,076	200
280166		4	4,3	21,0	8,0	0,046	200
280170		5	5,08	22,0	9,5	0,043	200



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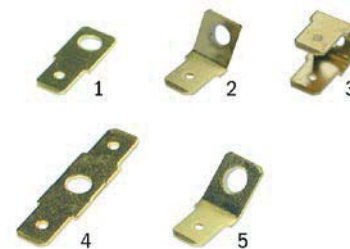
Germany: HAUPA, Koenigstr. 165-169, 42853 Remscheid, Phone: +49 (0)2191 8418-0, Fax: +49 (0)2191 8418-840, sales@haupa.com

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Flat terminals

- bare brass
- uninsulated

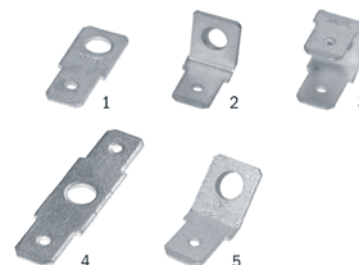
Art. no.	plug	d2	TL	form		kg/100	PU
280180	6,3x0,8	4,2	19,2	1	0°	0,076	200
280182	6,3x0,8	4,2	10,2	5	45°	0,082	200
280184	6,3x0,8	4,2	11,3	2	90°	0,085	200
280186	6,3x0,8	4,2	30,3	4	0°	0,136	200
280188	6,3x0,8	4,2	11,45	3	90°	0,134	200



Flat terminals

- tin-plated brass
- uninsulated

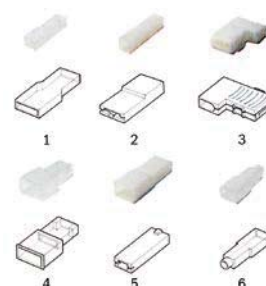
Art. no.	plug	d2	TL	form		kg/100	PU
280190	6,3x0,8	4,2	19,2	1	0°	0,083	200
280192	6,3x0,8	4,2	10,2	5	45°	0,084	200
280194	6,3x0,8	4,2	11,3	2	90°	0,095	200
280196	6,3x0,8	4,2	30,3	4	0°	0,137	200
280198	6,3x0,8	4,2	11,45	3	90°	0,272	200



Insulating sleeves

- of PVC and nylon

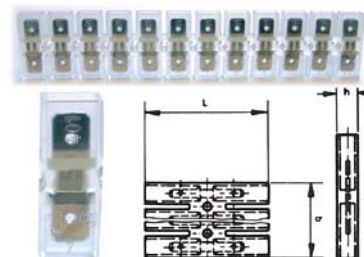
Art. no.	plug	form	material	kg/100	PU
280200	6,3x0,8	1	PVC	0,056	100
280202	6,3x0,8	2	Nylon	0,069	100
280204	4,8x0,8	6	PVC	0,047	100
280206	4,8x0,8	2	Nylon	0,071	100
280208	2,8x0,8	6	PVC	0,036	100
280210	2,8x0,8	5	Nylon	0,043	100
280212	6,3x0,8	4	PVC	0,063	100
280214	6,3x0,8	3	Nylon	0,048	100



Elastic connectors with socket sleeves (male)

- 1 - 12 pole
- PVC, natural colour

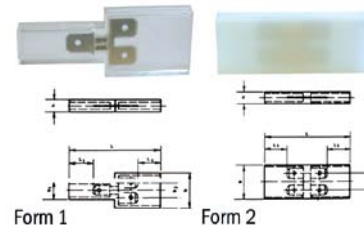
Art. no.	plug	TL	form	B	PoZ	material	kg/100	PU
280460	2,8x0,8	7,5	1	35,0	1	PVC	0,157	100
280482	2,8x0,8	88,0	12	35,0	12	PVC	1,770	10
280490	4,8x0,8	12,5	1	28,0	1	PVC	0,200	100
280512	4,8x0,8	147,0	12	28,0	12	PVC	2,800	10
280520	6,3x0,8	12,5	1	28,0	1	PVC	0,240	100
280542	6,3x0,8	147,0	12	28,0	12	PVC	2,850	10
280550	2,8x0,8	12,5	1	28,0	1	PVC	0,250	100
280572	2,8x0,8	147,0	12	28,0	12	PVC	0,440	50



Elastic cable distributors

- PVC, natural colour

Art. no.	plug	TL	form	c	material	kg/100	PU
280580	6,3x0,8	53,0	1	15,0	PVC	0,500	50
280582	6,3x0,8	51,0	2	13,0	PVC	0,500	50



Cable lugs and connectors



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

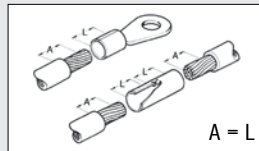
Every crimping operation requires first that the cable is stripped without deforming the wires (+10% - since length expansion of crimp sleeve).

3. Cleaning

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

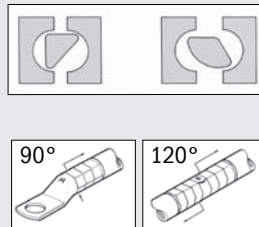
4. Assembling

- 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 crimp 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.



6. Caution

For aluminium cables shoes and connectors, excess, escaped pressing additives must be wiped away.

7. Tensile strength

When correctly processed in accordance with the HAUPA pressing instructions and using HAUPA pressing tools, a tensile strength is ensured in accordance with DIN EN61238-1.

Temperature resistance

Connector	Temperature
Cable lugs & connectors copper	max. 120° C (in acc. to DIN 46234)
Cable lugs & connectors aluminium	max. 120° C (in acc. to IEC 61238)
Cable lugs & connectors of pure nickel	max. 500° C
End sleeves without insulation	max. 120° C (in acc. to DIN 46234)
End sleeves insulated	max. 105° C
Insulated terminals PVC	- 10° C --> + 75° C
Insulated terminals Nylon	- 55° C --> + 105° C
Shrinking terminals	- 55° C --> + 105° C
Socket sleeves male & female, tin-coated brass, uninsulated	- 55° C --> + 100° C

Pressing number for HAUPA conduit terminals and connectors

conductor cross section CSS	HAUPA standard tubular cable lugs "commonly-available version" VDE 0295 class 2		HAUPA F-Type tubular cable lugs Cable class 5 / 6
	quantity crimpings slim 5 mm	quantity crimpings wide > 8 mm	quantity crimpings
0,75	1	-	-
1,5	1	-	-
2,5	1	-	-
4	1	-	-
6	1	-	-
10	1	1	-
16	1	1	1
25	2	1	1
35	2	1	1
50	2	1	1
70	2	1	1
95	2	1	1
120	2	1	1
150	2	1	2
185	2	1*	2
240	4	2	2
300	4	2	2
400	4	2	-
500	4	2	-
625	4	2	-

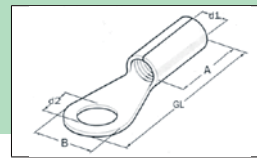
* when using the four thorn pressing, number of pressings:

AD300-6, SD300-6, HD300-6, KD300-6 /
AD400-6, SD400-6, HD400-6, KD400-6

(page 58 - 59)

Crimp ring terminals without insulation DIN 46234

- Material: 99,9% electrolytic copper • Surface: tin-plated
- Ring type • For conductors, e.g. to VDE 0295 class 2,5,6
- Hard soldered in crimping area
- Grooved profile for improved contact characteristics



Cu

Art. no.	CSS	M	d2	d1	A	TL	B	kg/100	PU
290619	0,5-1,0	2,5	2,6	1,95	5,2	17,25	8,0	0,056	100
290620		3	3,2	1,95	5,2	17,25	8,0	0,055	100
290621		3,5	3,7	1,95	5,2	17,25	8,0	0,039	100
290622		4	4,2	1,95	5,2	16,65	8,0	0,065	100
290624		5	5,2	1,95	5,2	17,25	8,0	0,082	100
290623		6	6,2	1,95	5,2	18,5	10,0	0,091	100
290625		8	8,2	1,95	5,2	25,0	14,0	0,121	100
290617	10	10,5	1,95	5,2	25,0	14,0	0,178	100	
290626	1,5-2,5	3	3,2	2,45	5,2	17,25	8,0	0,065	100
290627		3,5	3,7	2,45	5,2	17,25	8,0	0,058	100
290628		4	4,2	2,45	5,2	17,25	8,0	0,076	100
290630	5	5,2	2,45	5,2	20,0	10,0	0,097	100	
290632	6	6,2	2,45	5,2	22,0	11,0	0,110	100	
290634	8	8,2	2,45	5,2	26,8	15,0	0,132	100	
290635	10	10,5	2,45	5,2	26,8	15,0	0,138	100	
290646	4,0-6,0	5	5,3	3,6	6,0	15,0	10,0	0,157	100
290648		6	6,5	3,6	6,0	16,0	11,0	0,166	100
290650		8	8,4	3,6	6,0	19,0	14,0	0,214	100
290652		10	10,5	3,6	6,0	21,0	18,0	0,281	100
290654		12	13,0	3,6	6,0	21,0	18,0	0,219	100
290656	10	5	5,3	4,5	8,0	16,0	10,0	0,216	100
290658		6	6,4	4,5	8,0	17,0	11,0	0,227	100
290660		8	8,4	4,5	8,0	20,0	14,0	0,280	100
290662		10	10,5	4,5	8,0	21,0	18,0	0,339	100
290663		12	13,0	4,5	8,0	23,0	22,0	0,300	100
290664	16	5	5,3	5,8	10,0	20,0	10,0	0,353	100
290666		6	6,4	5,8	10,0	20,0	11,0	0,362	100
290668		8	8,4	5,8	10,0	22,0	14,0	0,404	100
290670		10	10,5	5,8	10,0	24,0	18,0	0,477	100
290672		12	13,0	5,8	10,0	26,0	22,0	0,565	100
290676	25	6	6,4	7,5	11,0	25,0	12,0	0,706	50
290678		8	8,4	7,5	11,0	25,0	16,0	0,776	50
290680		10	10,5	7,5	11,0	26,0	18,0	0,764	50
290682		12	13,0	7,5	11,0	31,0	22,0	0,886	50
290684		16	17,0	7,5	11,0	35,0	28,0	1,190	50
290686	35	8	8,4	9,0	12,0	26,0	16,0	0,896	50
290688		10	10,5	9,0	12,0	27,0	18,0	0,900	50
290690		12	13,0	9,0	12,0	31,0	22,0	1,000	50
290692		16	17,0	9,0	12,0	36,0	28,0	1,400	50
290694	50	8	8,4	11,0	16,0	34,0	18,0	1,600	40
290696		10	10,5	11,0	16,0	34,0	18,0	1,600	40
290698		12	13,0	11,0	16,0	36,0	22,0	1,700	40
290700		16	17,0	11,0	16,0	40,0	28,0	2,000	25
290701	70	8	8,4	13,0	18,0	38,0	22,0	2,500	25
290702		10	10,5	13,0	18,0	38,0	22,0	2,500	25
290704		12	13,0	13,0	18,0	38,0	22,0	2,400	20
290707	95	8	8,4	15,0	20,0	42,0	24,0	3,800	20
290708		10	10,5	15,0	20,0	42,0	24,0	3,800	20
290710		12	13,0	15,0	20,0	42,0	24,0	3,700	20
290712		16	17,0	15,0	20,0	44,0	28,0	3,900	20
290713	120	10	10,5	16,5	22,0	44,0	24,0	5,200	25
290714		12	13,0	16,5	22,0	44,0	24,0	5,200	25
290716		16	17,0	16,5	22,0	48,0	28,0	6,200	25
290717	20	21,0	16,5	22,0	53,0	32,0	5,900	25	
290719	150	10	17,0	19,0	24,0	50,0	30,0	7,500	25
290721		12	13,0	19,0	24,0	50,0	30,0	7,400	25
290718		16	10,5	19,0	24,0	50,0	30,0	6,800	25
290720	185	16	17,0	21,0	25,0	50,0	36,0	9,400	20



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Insulated crimp cable lugs

- Nylon-insulated • Material: 99,9% E-Cu • Surface: tin-plated
- Ring type • For conductors, e.g. to VDE 0295 class 2, 5, 6
- Hard soldered in crimping area • Grooved profile for improved contact characteristics
- Crimp direct with insulation



Art. no.	CSS	M	d2	d1	d4	A	TL	kg/100	PU
260902	10	5	5,3	4,5	8,0	16,5	24,5	0,283	100
260904		6	6,5	4,5	8,0	16,5	25,5	0,240	100
260906		8	8,4	4,5	8,0	16,5	28,5	0,200	100
260908		10	10,5	4,5	8,0	16,5	29,5	0,400	100
260910		12	13,0	4,5	8,0	16,5	31,5	0,420	100
260912	16	5	5,3	5,8	11,0	21,5	31,5	0,400	100
260914		6	6,5	5,8	11,0	21,5	31,5	0,400	100
260916		8	8,4	5,8	11,0	21,5	33,5	0,500	100
260918		10	10,5	5,8	11,0	21,5	35,5	0,600	100
260920		12	13,0	5,8	11,0	21,5	37,5	0,600	100
260922	25	5	5,3	7,5	13,0	24,0	38,0	0,800	100
260924		6	6,5	7,5	13,0	24,0	38,0	0,800	100
260926		8	8,4	7,5	13,0	24,0	38,0	0,900	100
260928		10	10,5	7,5	13,0	24,0	39,0	1,000	100
260930		12	13,0	7,5	13,0	24,0	44,0	1,100	100
260932		16	17,0	7,5	13,0	24,0	48,0	1,300	100
260934	35	6	6,5	9,0	14,5	27,0	41,0	1,100	100
260936		8	8,4	9,0	14,5	27,0	41,0	1,000	100
260938		10	10,5	9,0	14,0	27,0	42,0	1,000	100
260940		12	13,0	9,0	14,5	27,0	46,0	1,260	100
260942		16	17,0	9,0	14,5	27,0	51,0	1,550	100
260944	50	6	6,5	11,0	16,5	29,5	47,5	3,300	50
260946		8	8,4	11,0	16,5	29,5	47,5	3,300	50
260948		10	10,5	11,0	16,5	29,5	47,5	3,200	50
260950		12	13,0	11,0	16,5	29,5	49,5	3,600	50
260952		16	17,0	11,0	16,5	29,5	53,5	4,200	50
260954	70	6	6,5	13,0	18,7	31,5	51,0	5,200	50
260956		8	8,4	13,0	18,7	31,5	51,0	5,000	50
260960		12	13,0	13,0	18,7	31,5	51,0	5,000	50
260962		16	17,0	13,0	18,7	31,5	55,0	5,400	50
260964	95	8	8,4	15,0	21,7	35,5	57,5	8,000	50
260966		10	10,5	15,0	21,7	35,5	57,5	8,200	50
260968		12	13,0	15,0	21,7	35,5	57,5	7,800	50
260970		16	17,0	15,0	21,7	35,5	59,5	8,200	50
260972	120	8	8,4	16,5	24,2	40,0	62,0	10,600	25
260974		10	10,5	16,5	24,2	40,0	62,0	11,200	25
260976		12	13,0	16,5	24,2	40,0	62,0	10,800	25
260978		16	17,0	16,5	24,2	40,0	66,0	11,600	25
260980	150	10	10,5	19,0	27,2	44,0	70,0	16,800	25
260982		12	13,0	19,0	27,2	44,0	70,0	16,800	25
260984		16	17,0	19,0	27,2	44,0	70,0	16,800	25

Solderless terminals for meter connection

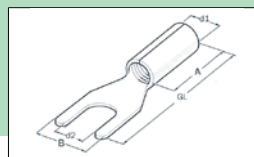
- Nylon-insulated • Material: 99,9% E-Cu • Surface: tin-plated
- Fork type • For conductors, e.g. to VDE 0295 class 2, 5, 6
- Hard soldered in crimping area • Grooved profile for improved contact characteristics
- Crimp direct with insulation



Art. no.	CSS	M	kg/100	PU
260858	10	5	0,302	50
260860		6	0,320	50
260862	16	5	0,584	50
260863		8	0,630	50

Fork terminals without insulation

- Material: 99,9% E-Cu • Surface: tin-plated
- Fork type • For conductors, e.g. to VDE 0295 class 2, 5, 6
- Hard soldered in crimping area
- Grooved profile for improved contact characteristics

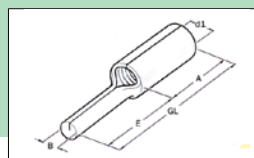


Cu

Art. no.	CSS	M	d2	d1	A	TL	B	kg/100	PU
290730	0,5-1,0	3	3,2	1,95	5,2	14,6	5,6	0,076	100
290731		3,5	3,7	1,95	5,2	14,9	6,5	0,077	100
290732		4	4,2	1,95	5,2	15,0	6,4	0,058	100
290734		5	5,2	1,95	5,2	16,25	8,0	0,086	100
290735		6	6,2	1,95	5,2	17,5	9,2	0,087	100
290736	1,5-2,5	3	3,2	2,45	5,2	17,25	5,6	0,088	100
290739		3,5	3,7	2,45	5,2	14,3	6,6	0,083	100
290738		4	4,2	2,45	5,2	14,3	6,6	0,082	100
290740		5	5,2	2,45	5,2	19,25	9,1	0,095	100
290742		6	6,2	2,45	5,2	21,0	10,0	0,120	100
290744	4,0-6,0	4	4,2	3,5	6,5	18,6	8,0	0,152	100
290746		5	5,2	3,5	6,5	21,1	9,0	0,176	100
290748		6	6,2	3,5	6,5	22,3	11,0	0,161	100
290750		8	8,2	3,5	6,5	27,3	15,2	0,252	100
290751		10	10,5	3,5	6,5	30,2	19,0	0,319	100
290752	10	5	5,2	4,7	8,5	20,8	9,0	0,248	100
290754		6	6,4	4,7	8,5	20,8	10,3	0,260	100
290756	16	6	6,4	5,8	10,5	25,5	11,0	0,513	100

Pin terminals without insulation DIN 46230

- Material: 99,9% E-Cu • Surface: tin-plated
- Pin type • For conductors, e.g. to VDE 0295 class 2, 5, 6
- Hard soldered in crimping area
- Grooved profile for improved contact characteristics

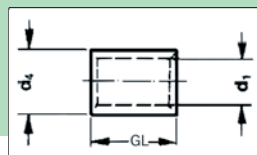


Cu

Art. no.	CSS	d1	A	TL	E	B	kg/100	PU
290770	0,5-1,0	1,85	5,0	17,3	12,0	1,8	0,083	100
290771		1,85	5,0	17,3	9,0	1,8	0,078	100
290773	1,5-2,5	2,4	5,0	17,3	9,0	1,8	0,065	100
290775		2,4	5,0	17,3	9,0	1,8	0,058	100
290777	4,0-6,0	3,6	6,0	24,5	12,5	2,6	0,157	100
290776	10,0	4,5	8,5	20,5	14,0	4,0	0,300	100
290778	16	5,8	10,5	26,5	14,0	4,5	0,411	100
290780	25	7,0	14,0	33,0	15,0	7,0	0,600	100
290782	35	8,2	16,0	40,0	20,0	8,0	1,238	100
290784	50	9,5	19,0	45,0	20,0	9,5	1,800	100
290786	70	11,2	24,0	55,0	25,0	11,5	3,053	50
290788	95	13,59	24,0	55,0	25,0	13,5	4,100	50

Parallel connectors DIN 46341 part 1, type A

- Material: 99,9% electrolytic copper • Surface: tin-plated
- For connecting different conductor cross-sections
- Hard soldered in crimping area
- Grooved profile for improved contact characteristics

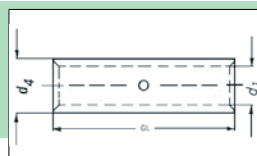


Cu

Art. no.	CSS	d1	d4	TL	kg/100	PU	PU
291090	0,5-1,0	1,6	3,3	7	0,064	2000	100
291092	1,5-2,5	2,3	4,2	7	0,070	2000	100
291096	4-6	3,6	5,5	7	0,090	1800	100
291098	10	4,5	7,0	9	0,165	2000	100
291100	16	5,5	8,5	10	0,274	1000	100
291102	25	7,0	10,0	13	0,500	600	100
291104	35	8,5	12,0	16	0,800	300	50
291106	50	10,0	14,0	19	1,200	300	50
291108	70	12,0	16,5	19	1,600	200	50
291110	95	13,5	18,0	20	2,400	150	25
291112	120	15,0	19,5	22	3,500	100	25
291114	150	16,5	21,0	26	3,000	80	20

Solderless butt connectors DIN 46341 part 1, type B

- Material: 99,9% electrolytic copper
- Surface: tin-plated • annealing for easier crimping
- For stranded conductors e.g. VDE 0295 class 2, 5, 6
- With buttmarks for precise cable insertion

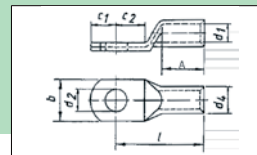


Cu

Art. no.	CSS	d1	d4	TL	kg/100	PU	PU
291119	0,5-1,0	1,6	3,3	15	0,200	2000	100
291120	1,5-2,5	2,3	4,2	15	0,127	2000	100
291124	4-6	3,6	5,5	15	0,200	2000	100
291126	10	4,5	7,0	21	0,300	800	100
291128	16	5,5	8,5	26	0,600	500	50
291130	25	7,0	10,0	29	1,100	400	50
291132	35	8,5	12,0	32	1,500	150	25
291134	50	10,0	14,0	48	2,300	150	25
291136	70	12,0	16,5	48	3,400	100	25
291138	95	13,5	18,0	48	5,800	50	25
291140	120	15,0	19,5	48	8,500	50	25
291142	150	16,5	21,0	48	11,100	40	20

Tubular terminals, Light „T“ series

- Tubular
- Material: 99.9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated
- With sight hole

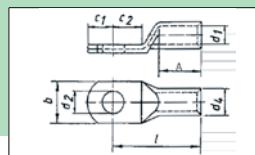


Art. no.	CSS	M	d2	d1	d4	A	TL	B	kg/100	PU
294000	1,5	4	4,3	2,4	4,0	7,0	19,0	8,7	0,105	2000
294002		5	5,3	2,4	4,0	7,0	19,0	8,7	0,101	2000
294004		6	6,4	2,4	4,0	7,0	20,0	10,0	0,101	2000
294006	2,5	4	4,3	2,7	4,3	7,0	19,0	8,7	0,117	2000
294008		5	5,3	2,7	4,3	7,0	19,0	8,7	0,113	2000
294010		6	6,4	2,7	4,3	7,0	21,0	10,3	0,119	2000
294012		8	8,3	2,7	4,3	7,0	23,0	12,0	0,121	2000
294014	4	4	4,3	3,1	4,8	9,5	21,5	8,7	0,162	2000
294016		5	5,3	3,1	4,8	9,5	21,5	8,7	0,152	2000
294018		6	6,4	3,1	4,8	9,5	23,5	10,3	0,100	2000
294020		8	8,3	3,1	4,8	9,5	28,5	12,5	0,200	2000
294022	6	4	4,3	3,8	5,5	10,0	26,0	10,3	0,200	1800
294024		5	5,3	3,8	5,5	10,0	26,0	10,3	0,200	1800
294026		6	6,4	3,8	5,5	10,0	26,0	10,3	0,300	1400
294028		8	8,3	3,8	5,5	10,0	29,0	13,9	0,200	1400
294034	10	5	5,3	4,7	6,9	11,5	27,5	11,9	0,300	1000
294036		6	6,4	4,7	6,9	11,5	27,5	11,9	0,300	1000
294038		8	8,3	4,7	6,9	11,5	30,5	13,5	0,300	800
294040		10	10,5	4,7	6,9	11,5	30,5	15,0	0,300	600
294044	16	5	5,3	5,6	7,8	12,0	27,5	12,0	0,400	600
294046		6	6,4	5,6	7,8	12,0	27,5	12,0	0,400	600
294048		8	8,3	5,6	7,8	12,0	31,0	13,5	0,500	400
294050		10	10,5	5,6	7,8	12,0	32,0	16,0	0,400	400
294052		12	13,2	5,6	7,8	12,0	37,5	17,0	0,500	400
294054	25	6	6,4	7,1	9,5	13,5	34,0	14,0	0,700	400
294056		8	8,3	7,1	9,5	13,5	34,0	14,0	0,700	400
294058		10	10,5	7,1	9,5	13,5	37,0	16,0	0,700	300
294060		12	13,2	7,1	9,5	13,5	40,0	18,0	0,800	300
294062	35	6	6,4	8,2	11,0	16,0	39,0	16,5	1,300	240
294064		8	8,3	8,2	11,0	16,0	39,0	16,5	2,900	240
294066		10	10,5	8,2	11,0	16,0	43,0	16,5	1,300	160
294068		12	13,2	8,2	11,0	16,0	43,0	18,0	1,200	160
294070		14	14,5	8,2	11,0	16,0	48,0	20,0	1,300	160
294080	50	6	6,4	9,5	12,5	20,0	45,0	18,0	1,700	150
294082		8	8,3	9,5	12,5	20,0	45,0	18,0	1,700	150
294084		10	10,5	9,5	12,5	20,0	49,0	18,0	1,900	150
294086		12	13,2	9,5	12,5	20,0	49,0	18,0	1,800	100
294088		14	14,5	9,5	12,5	20,0	54,0	22,0	1,900	100
294094	70	8	8,3	11,5	15,0	20,0	47,6	22,0	2,700	100
294096		10	10,5	11,5	15,0	20,0	51,6	22,0	2,800	100
294098		12	13,2	11,5	15,0	20,0	51,6	22,0	2,600	100
294100		14	14,5	11,5	15,0	20,0	62,6	22,0	3,300	100
294102		16	16,5	11,5	15,0	20,0	62,6	22,0	3,100	100
294106	95	8	8,3	13,5	17,0	22,0	55,8	25,0	3,500	100
294108		10	10,5	13,5	17,0	22,0	55,8	25,0	3,500	100
294110		12	13,2	13,5	17,0	22,0	55,8	25,0	2,900	100
294112		14	14,5	13,5	17,0	22,0	66,8	25,0	4,000	40
294114		16	16,5	13,5	17,0	22,0	66,8	25,0	3,900	40
294118	120	10	10,5	15,6	20,0	27,0	71,5	29,0	6,900	80
294120		12	13,2	15,6	20,0	27,0	71,5	29,0	6,800	80
294122		14	14,5	15,6	20,0	27,0	71,5	29,0	6,600	72
294124		16	16,5	15,6	20,0	27,0	71,5	29,0	6,400	72
294128	150	10	10,5	16,5	21,0	32,0	78,0	30,6	8,000	72
294130		12	13,2	16,5	21,0	32,0	78,0	30,6	8,000	72
294132		14	14,5	16,5	21,0	32,0	78,0	30,6	7,800	72
294134		16	16,5	16,5	21,0	32,0	78,0	30,6	7,500	48
294138	185	10	10,5	18,4	23,6	34,0	84,0	34,0	11,200	40
294140		12	13,2	18,4	23,6	34,0	84,0	34,0	11,200	40
294142		14	14,5	18,4	23,6	34,0	84,0	34,0	10,800	40
294144		16	16,5	18,4	23,6	34,0	84,0	34,0	10,800	40

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Tubular terminals, Light „T“ series

- Tubular
- Material: 99.9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated
- With sight hole



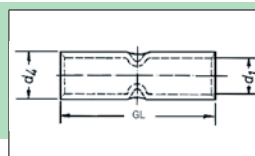
Light



Art. no.	CSS	M	d2	d1	d4	A	TL	B	kg/100	PU	PU
294150	240	12	13,2	21,2	26,4	37,0	90,0	38,5	13,300	30	10
294152		14	14,5	21,2	26,4	37,0	90,0	38,5	13,000	30	10
294154		16	16,5	21,2	26,4	37,0	90,0	38,5	15,000	30	10
294160	300	12	13,2	23,4	28,6	40,0	96,0	42,0	15,400	16	8
294162		14	14,5	23,4	28,6	40,0	96,0	42,0	15,000	16	8
294164		16	16,5	23,4	28,6	40,0	96,0	42,0	2,900	16	8
294174	400	16	16,5	26,8	32,8	37,0	104,7	48,0	22,700	10	5
294176		20	21,0	26,8	32,8	37,0	104,7	48,0	22,000	10	5
294184	500	16	16,5	29,8	38,4	46,5	115,5	55,0	42,000	8	3
294196	630	20	21,0	34,5	44,7	50,0	133,0	64,0	66,800	6	2

Butt connectors, Light „M“ series

- Material: 99.9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated • annealing for easier crimping
- for stranded conductors e.g. VDE 0295 class 2
- with buttmarks for precise cable insertion



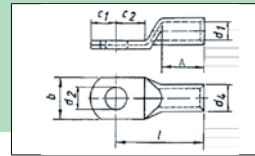
Light



Art. no.	CSS	d1	d4	TL	kg/100	PU	PU
294200	1,5	2,4	4,0	22,0	0,080	2000	200
294202	2,5	2,7	4,3	22,0	0,080	2000	200
294204	4	3,1	4,8	25,0	0,300	1000	100
294206	6	3,8	5,5	25,0	0,300	1000	100
294208	10	4,7	6,9	25,0	0,400	600	100
294210	16	5,6	7,8	29,0	0,500	500	100
294212	25	7,1	9,5	29,0	0,700	200	50
294214	35	8,2	11,0	35,0	1,200	200	50
294218	50	9,5	12,5	35,0	1,400	100	40
294220	70	11,5	15,0	45,0	2,700	50	20
294222	95	13,5	17,0	47,0	3,200	50	20
294224	120	15,6	20,0	52,0	5,500	50	20
294226	150	16,5	21,0	59,0	6,500	50	20
294228	185	18,4	23,6	65,0	9,200	36	20
294230	240	21,2	26,4	75,0	11,900	12	10
294232	300	23,4	28,6	90,0	14,500	6	5
294234	400	26,8	32,8	106,0	24,200	6	5

Tubular cable lugs, standard series

- For stranded round shaped conductors e.g. VDE 0295 class 2
- For preround sector shaped conductors
- Annealed material for easier crimping
- Material: 99.9% electrolytic copper E-CU DIN 40500 • Surface: tin-plated



Cu

available with and without sight hole e.g. 290900/S (add xxxxxx/s when ordering)

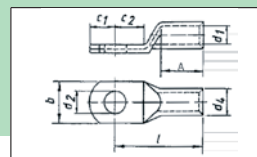
Art. no.	CSS	M	d2	d1	d4	A	v1	v2	l	B	c1	c2	kg/100	PU	PU
290900	0,75	3	3,2	1,3	2,8	6,0	1	-	12,0	6,0	3,25	4,0	0,073	2000	100
290902		4	4,3	1,3	2,8	6,0	1	-	13,0	6,5	4,0	5,0	0,064	2000	100
290904	1,5	3	3,2	1,8	3,3	6,0	1	-	12,0	6,5	3,25	4,0	0,060	2000	100
290906		4	4,3	1,8	3,3	6,0	1	-	13,0	6,5	4,0	5,0	0,066	2000	100
290908		5	5,3	1,8	3,3	6,0	1	-	14,0	7,5	4,75	5,5	0,087	2000	100
290910		6	6,5	1,8	3,3	6,0	1	-	16,0	9,0	6,5	6,5	0,097	2000	100
290912	2,5	3	3,2	2,3	4,2	6,0	1	-	12,0	7,5	3,25	4,0	0,103	2000	100
290914		4	4,3	2,3	4,2	6,0	1	-	13,0	7,5	4,0	5,0	0,112	2000	100
290916		5	5,3	2,3	4,2	6,0	1	-	14,0	8,5	4,75	5,5	0,121	2000	100
290918		6	6,5	2,3	4,2	6,0	1	-	16,0	9,5	6,5	6,5	0,143	2000	100
290920		8	8,5	2,3	4,2	6,0	1	-	20,0	13,0	7,75	9,5	0,151	2000	100
290922	4	4	4,3	3,0	5,0	8,0	1	-	17,0	8,5	4,75	5,5	0,200	2000	100
290924		5	5,3	3,0	5,0	8,0	1	-	17,0	9,0	4,75	6,0	0,161	2000	100
290926		6	6,5	3,0	5,0	8,0	1	-	19,0	10,0	6,5	6,5	0,220	2000	100
290928		8	8,5	3,0	5,0	8,0	1	-	22,0	13,0	8,5	9,5	0,300	2000	100
290930	6	4	4,3	3,5	6,5	9,0	1	-	18,0	8,5	5,0	5,5	0,452	1800	100
290932		5	5,3	3,5	6,5	9,0	1	-	21,0	10,0	6,5	7,5	0,475	1800	100
290934		6	6,5	3,5	6,5	9,0	1	-	21,0	12,0	6,5	7,5	0,400	1400	100
290936		8	8,5	3,5	6,5	9,0	1	-	23,0	15,0	10,0	10,0	0,500	1400	100
290938	10	5	5,3	4,5	7,0	10,0	1	-	22,0	12,0	6,5	7,5	0,400	1000	100
290940		6	6,5	4,5	7,0	10,0	1	-	22,0	12,0	6,5	7,5	0,400	1000	100
290942		8	8,5	4,5	7,0	10,0	1	-	25,0	15,0	10,0	10,0	0,540	800	100
290944		10	10,5	4,5	7,0	10,0	1	-	27,0	17,0	12,0	12,0	0,573	600	100
290946		12	13,0	4,5	7,0	10,0	1	-	29,0	19,0	13,0	13,0	0,600	600	100
290948	16	5	5,3	5,5	8,5	13,0	1	1	26,0	12,0	5,5	6,5	0,800	600	100
290950		6	6,5	5,5	8,5	13,0	1	1	27,0	12,0	6,25	7,5	0,700	600	100
290952		8	8,5	5,5	8,5	13,0	1	1	29,0	15,0	8,5	9,5	0,800	400	100
290954		10	10,5	5,5	8,5	13,0	1	1	31,0	17,0	10,5	11,5	0,950	400	100
290956		12	13,0	5,5	8,5	13,0	1	1	33,0	19,0	12,0	13,0	1,000	400	100
290958	25	6	6,5	7,0	10,0	15,0	2	1	30,0	14,0	7,5	7,5	1,100	400	50
290960		8	8,5	7,0	10,0	15,0	2	1	32,0	16,0	10,0	10,0	1,200	400	50
290962		10	10,5	7,0	10,0	15,0	2	1	34,0	18,0	12,0	12,0	1,200	300	50
290964		12	13,0	7,0	10,0	15,0	2	1	35,0	19,0	13,0	13,0	1,300	300	50
290966	35	6	6,5	8,5	12,0	17,0	2	1	32,0	17,0	7,5	7,5	1,900	240	40
290968		8	8,5	8,5	12,0	17,0	2	1	34,0	17,0	10,0	10,0	1,900	240	40
290970		10	10,5	8,5	12,0	17,0	2	1	37,0	19,0	12,0	12,0	2,100	160	40
290972		12	13,0	8,5	12,0	17,0	2	1	38,0	21,0	13,0	13,0	2,000	160	40
290974		16	17,0	8,5	12,0	17,0	2	1	42,0	26,0	16,0	16,0	2,100	160	40
290976	50	6	6,5	10,0	14,0	19,0	2	1	37,0	20,0	10,0	10,0	2,900	160	40
290978		8	8,5	10,0	14,0	19,0	2	1	37,0	20,0	10,0	10,0	2,700	160	40
290980		10	10,5	10,0	14,0	19,0	2	1	39,0	20,0	12,0	12,0	2,900	160	25
290982		12	13,0	10,0	14,0	19,0	2	1	43,0	23,0	13,0	13,0	3,300	100	25
290984		16	17,0	10,0	14,0	19,0	2	1	46,0	28,0	16,0	16,0	3,100	100	25
290985	70	6	6,5	12,0	16,5	21,0	2	1	43,0	23,0	10,0	10,0	4,200	100	25
290986		8	8,5	12,0	16,5	21,0	2	1	43,0	23,0	10,0	10,0	4,200	100	25
290988		10	10,5	12,0	16,5	21,0	2	1	44,0	23,0	12,0	12,0	4,300	100	25
290990		12	13,0	12,0	16,5	21,0	2	1	46,0	23,0	13,0	13,0	4,500	100	25
290991		14	15,0	12,0	16,5	21,0	2	1	48,0	23,0	14,5	14,5	4,600	100	25
290992		16	17,0	12,0	16,5	21,0	2	1	50,0	28,0	16,0	16,0	5,100	100	25
290994	95	8	8,5	13,5	18,0	25,0	2	1	48,0	26,0	12,0	12,0	5,300	100	25
290996		10	10,5	13,5	18,0	25,0	2	1	48,0	26,0	12,0	12,0	5,100	100	25
290998		12	13,0	13,5	18,0	25,0	2	1	49,0	26,0	13,0	13,0	5,200	100	25
290999		14	15,0	13,5	18,0	25,0	2	1	51,0	26,0	14,5	14,5	5,400	60	15
291000		16	17,0	13,5	18,0	25,0	2	1	54,0	28,0	16,0	16,0	5,600	60	15
291002		20	21,0	13,5	18,0	25,0	2	1	60,0	36,0	22,0	22,0	6,000	60	15



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Tubular terminals, standard series

- For stranded round shaped conductors e.g. VDE 0295 class 2
- For preround sector shaped conductors
- Annealed material for easier crimping
- Material: 99.9% electrolytic copper E-CU DIN 40500 • Surface: tin-plated



Cu

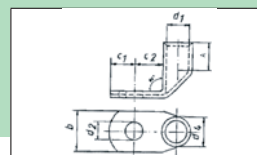
available with and without sight hole e.g. 290004/S (add xxxxxx/s when ordering)

Art. no.	CSS	M	d2	d1	d4	A	v1	v2	l	B	c1	c2	kg/100	PU	PU
290004	120	8	8,5	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,300	20	15
290006		10	10,5	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,200	80	15
290008		12	13,0	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,100	80	15
290009		14	15,0	15,0	19,5	26,0	2	1	52,0	28,0	15,0	15,0	5,900	72	18
290010		16	17,0	15,0	19,5	26,0	2	1	54,0	30,0	16,0	16,0	6,200	60	15
290012		20	21,0	15,0	19,5	26,0	2	1	63,0	36,0	22,0	22,0	7,900	60	15
290014	150	10	10,5	16,5	21,0	30,0	2	1	56,0	31,0	14,0	14,0	7,500	60	15
290016		12	13,0	16,5	21,0	30,0	2	1	57,0	31,0	15,0	15,0	7,300	60	15
290017		14	15,0	16,5	21,0	30,0	2	1	57,0	31,0	15,0	15,0	7,900	60	15
290018		16	17,0	16,5	21,0	30,0	2	1	58,0	31,0	16,0	16,0	7,500	60	15
290020		20	21,0	16,5	21,0	30,0	2	1	66,0	36,0	22,0	22,0	8,800	48	12
290022	185	12	13,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	11,100	40	20
290023		14	15,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	11,800	40	20
290024		16	17,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	10,700	40	20
290026		20	21,0	19,0	24,0	30,0	2	1	69,0	39,0	22,0	22,0	10,700	40	20
290028	240	12	13,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,700	30	15
290029		14	15,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,400	30	15
290030		16	17,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,400	30	15
290034	300	12	13,0	23,5	29,5	44,0	4	2	87,0	43,0	24,0	24,0	22,000	16	8
290036		14	15,0	23,5	29,5	44,0	4	2	87,0	43,0	24,0	24,0	21,700	16	8
290038		16	17,0	23,5	29,5	44,0	4	2	87,0	43,0	24,0	24,0	21,300	16	8
290040		20	21,0	23,5	29,5	44,0	4	2	87,0	43,0	24,0	24,0	21,400	16	8
290046	400	16	17,0	27,0	34,0	44,0	4	2	90,0	49,0	24,0	24,0	31,800	10	5
290048		20	21,0	27,0	34,0	44,0	4	2	90,0	49,0	24,0	24,0	30,500	10	5
290041	500	16	17,0	31,0	38,0	70,0	4	2	103,0	55,0	24,0	24,0	45,000	12	6
290043		20	21,0	31,0	38,0	70,0	4	2	103,0	55,0	24,0	24,0	45,000	12	6
290045	625	16	17,0	34,0	41,0	70,0	4	2	108,0	60,0	24,0	24,0	49,200	6	3
290047		20	21,0	34,0	41,0	70,0	4	2	108,0	60,0	24,0	24,0	49,200	6	3



Angled tubular cable lugs 90°, standard series

- For stranded round shaped conductors e.g. VDE 0295 class 2
- For preround sector shaped conductors
- Annealed material for easier crimping
- Material: 99.9% electrolytic copper E-CU DIN 40500 • Surface: tin-plated



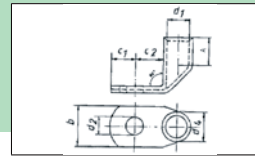
Cu

Art. no.	CSS	M	d2	d1	d4	A	v1	v2	l	B	c1	c2	kg/100	PU	PU
290932/90	6	5	5,3	3,5	6,5	9,0	1	-	21,0	10,0	6,5	7,5	0,475	1800	100
290934/90		6	6,5	3,5	6,5	9,0	1	-	21,0	12,0	6,5	7,5	0,400	1400	100
290936/90		8	8,5	3,5	6,5	9,0	1	-	23,0	15,0	10,0	10,0	0,500	1400	100
290938/90	10	5	5,3	4,5	7,0	10,0	1	-	22,0	12,0	6,5	7,5	0,400	1000	100
290940/90		6	6,5	4,5	7,0	10,0	1	-	22,0	12,0	6,5	7,5	0,400	1000	100
290942/90		8	8,5	4,5	7,0	10,0	1	-	25,0	15,0	10,0	10,0	0,540	800	100
290944/90		10	10,5	4,5	7,0	10,0	1	-	27,0	17,0	12,0	12,0	0,573	600	100
290948/90	16	5	5,3	5,5	8,5	13,0	1	1	26,0	12,0	5,5	6,5	0,800	600	100
290950/90		6	6,5	5,5	8,5	13,0	1	1	27,0	12,0	6,25	7,5	0,700	600	100
290952/90		8	8,5	5,5	8,5	13,0	1	1	29,0	15,0	8,5	9,5	0,800	400	100
290954/90		10	10,5	5,5	8,5	13,0	1	1	31,0	17,0	10,5	11,5	0,950	400	100
290956/90		12	13,0	5,5	8,5	13,0	1	1	33,0	19,0	12,0	13,0	1,000	400	100
290958/90	25	6	6,5	7,0	10,0	15,0	2	1	30,0	14,0	7,5	7,5	1,100	400	50
290960/90		8	8,5	7,0	10,0	15,0	2	1	32,0	16,0	10,0	10,0	1,200	400	50
290962/90		10	10,5	7,0	10,0	15,0	2	1	34,0	18,0	12,0	12,0	1,250	300	50
290964/90		12	13,0	7,0	10,0	15,0	2	1	35,0	19,0	13,0	13,0	1,300	300	50



Angled tubular cable lugs 90°, standard series

- For stranded round shaped conductors e.g. VDE 0295 class 2
- For preround sector shaped conductors
- Annealed material for easier crimping
- Material: 99.9% electrolytic copper E-CU DIN 40500 • Surface: tin-plated

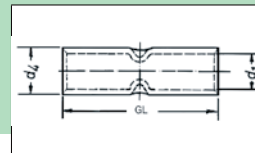


Art. no.	CSS	M	d2	d1	d4	A	v1	v2	l	B	c1	c2	kg/100	PU	
290966/90	35	6	6,5	8,5	12,0	17,0	2	1	32,0	17,0	7,5	7,5	1,900	240	40
290968/90		8	8,5	8,5	12,0	17,0	2	1	34,0	17,0	10,0	10,0	1,900	240	40
290970/90		10	10,5	8,5	12,0	17,0	2	1	37,0	19,0	12,0	12,0	2,100	160	40
290972/90		12	13,0	8,5	12,0	17,0	2	1	38,0	21,0	13,0	13,0	2,000	160	40
290976/90	50	6	6,5	10,0	14,0	19,0	2	1	37,0	20,0	10,0	10,0	2,900	160	40
290978/90		8	8,5	10,0	14,0	19,0	2	1	37,0	20,0	10,0	10,0	2,700	160	40
290980/90		10	10,5	10,0	14,0	19,0	2	1	39,0	20,0	12,0	12,0	2,900	150	25
290982/90		12	13,0	10,0	14,0	19,0	2	1	43,0	23,0	13,0	13,0	3,300	100	25
290986/90	70	8	8,5	12,0	16,5	21,0	2	1	43,0	23,0	10,0	10,0	4,200	100	25
290988/90		10	10,5	12,0	16,5	21,0	2	1	44,0	23,0	12,0	12,0	4,300	100	25
290990/90		12	13,0	12,0	16,5	21,0	2	1	46,0	23,0	13,0	13,0	4,500	100	25
290992/90		16	17,0	12,0	16,5	21,0	2	1	50,0	28,0	16,0	16,0	5,100	100	25
290994/90	95	8	8,5	13,5	18,0	25,0	2	1	48,0	26,0	12,0	12,0	5,300	100	25
290996/90		10	10,5	13,5	18,0	25,0	2	1	48,0	26,0	12,0	12,0	5,100	100	25
290998/90		12	13,0	13,5	18,0	25,0	2	1	49,0	26,0	13,0	13,0	5,200	100	25
291000/90		16	17,0	13,5	18,0	25,0	2	1	54,0	28,0	16,0	16,0	5,600	60	15
291002/90		20	21,0	13,5	18,0	25,0	2	1	60,0	36,0	22,0	22,0	6,000	60	15
290006/90	120	10	10,5	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,200	60	15
290008/90		12	13,0	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,100	60	15
290010/90		16	17,0	15,0	19,5	26,0	2	1	54,0	30,0	16,0	16,0	6,200	60	15
290014/90	150	10	10,5	16,5	21,0	30,0	2	1	56,0	31,0	14,0	14,0	7,500	72	12
290016/90		12	13,0	16,5	21,0	30,0	2	1	57,0	31,0	15,0	15,0	7,300	72	12
290018/90		16	17,0	16,5	21,0	30,0	2	1	58,0	31,0	16,0	16,0	7,500	48	12
290020/90		20	21,0	16,5	21,0	30,0	2	1	66,0	36,0	22,0	22,0	8,800	48	12
291004/90	185	10	10,5	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	11,100	40	20
290022/90		12	13,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	11,100	40	20
290024/90		16	17,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	10,700	40	20
290028/90	240	12	13,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,700	30	15
290030/90		16	17,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,400	30	15



Butt connectors, standard series

- Material: 99.9% E-CU DIN 40500
- Surface: tin-plated • Annealed material for easier crimping
- For stranded conductors e.g. VDE 0295 class 2
- with buttmarks for precise cable insertion



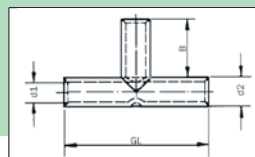
Art. no.	CSS	d1	d4	v1	v2	TL	kg/100	PU	
291050	0,75	1,3	2,8	1	-	14	0,051	2000	100
291052	1,5	1,8	3,3	1	-	14	0,074	2000	100
291054	2,5	2,3	4,2	1	-	16	0,150	2000	100
291056	4	3,0	5,0	1	-	19	0,195	1000	100
291058	6	3,5	6,5	1	-	19	0,350	1000	100
291060	10	4,5	7,0	1	-	30	0,558	600	100
291062	16	5,5	8,5	1	1	35	0,984	500	50
291064	25	7,0	10,0	2	1	40	1,350	200	50
291066	35	8,5	12,0	2	1	45	2,150	200	50
291068	50	10,0	14,0	2	1	50	3,100	100	25
291070	70	12,0	16,5	2	1	55	4,700	50	25
291072	95	13,5	18,0	2	1	60	5,600	50	25
291074	120	15,0	19,5	2	1	65	6,800	50	15
291076	150	16,5	21,0	2	1	70	7,800	50	20
291078	185	19,0	24,0	2	1	80	11,700	36	5
291080	240	21,0	26,0	4	2	90	13,900	12	10
291082	300	23,5	29,5	4	2	100	22,300	6	5
291084	400	27,0	34,0	4	2	100	29,000	6	5



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T-connectors, standard series

- Material: 99.9% E-CU DIN 40500
- Annealed material for easier crimping
- Surface: tin-plated
- For stranded conductors e.g. VDE 0295 class 2

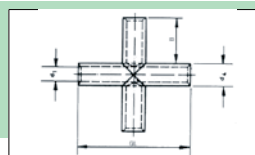


Cu

Art. no.	CSS	d1	d4	A	TL	kg/100	PU
291330	1,5	1,9	3,9	12	30	0,400	25
291332	2,5	2,4	4,4	12	30	0,400	25
291334	4	3,0	5,0	12	30	0,600	25
291336	6	3,7	5,5	14	35	1,100	25
291338	10	4,3	6,7	14	35	1,500	25
291340	16	5,4	7,8	21	50	2,300	25
291342	25	6,9	9,4	23	55	2,200	25
291344	35	8,3	11,3	30	70	3,800	25
291348	50	9,6	13,1	34	80	6,000	25
291350	70	11,5	15,3	35	85	10,100	25
291352	95	13,5	17,5	36	90	11,600	25
291354	120	15,5	20,0	38	95	17,800	10
291356	150	16,8	21,3	44	110	17,900	10
291358	185	19,0	24,0	45	115	28,300	1
291360	240	21,0	26,0	52	130	31,200	1

Cross connectors, standard series

- Material: 99.9% E-CU DIN 40500
- Annealed material for easier crimping
- Surface: tin-plated
- For stranded conductors e.g. VDE 0295 class 2

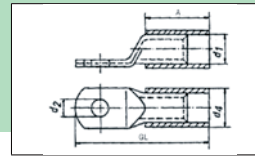


Cu

Art. no.	CSS	d1	d4	A	TL	kg/100	PU
291370	1,5	1,9	3,9	12	30	0,450	100
291372	2,5	2,4	4,4	12	30	0,520	100
291374	4	3,0	5,0	12	30	0,480	25
291376	6	3,7	5,5	14	30	0,700	25
291378	10	4,3	6,7	14	35	0,800	25
291380	16	5,4	7,8	21	50	1,650	25
291382	25	6,9	9,4	23	55	3,000	25
291384	35	8,3	11,3	30	70	5,100	10
291386	50	9,6	13,1	34	80	8,050	10
291388	70	11,5	15,3	35	85	10,700	10
291390	95	13,5	17,5	36	90	15,700	10
291392	120	15,5	20,0	38	95	23,400	10
291394	150	16,8	21,3	44	110	18,900	1
291396	185	19,0	24,0	45	115	25,000	1
291398	240	21,0	26,0	52	130	31,100	1

Tubular cable lugs, nylon-insulated, standard series

- **Material: 99.9% E-CU DIN 40500**
- **Surface: tin-plated • annealed material for easier crimping**
- **For stranded conductors e.g. VDE 0295 class 2**
- **With inspection hole • crimp directly with insulation**



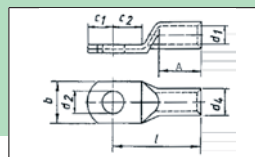
Cu

Art. no.	CSS	M	d2	d1	d4	A	TL	kg/100	PU
290800	10	5	5,5	7,0	9,0	17,0	35,5	0,400	100
290801		6	6,5	7,0	9,0	17,0	35,5	0,600	100
290802		8	8,5	7,0	9,0	17,0	42,0	0,500	100
290804		10	10,5	7,0	9,0	17,0	46,0	0,700	50
290806	16	5	5,5	8,5	10,5	21,0	39,5	0,600	100
290810		6	6,5	8,5	10,5	21,0	41,3	0,900	50
290812		8	8,5	8,5	10,5	21,0	45,5	1,000	50
290814		10	10,5	8,5	10,5	21,0	49,5	1,000	50
290816		12	13,0	8,5	10,5	21,0	54,0	1,000	50
290818	25	6	6,5	10,0	12,0	24,0	46,5	1,200	25
290820		8	8,5	10,0	12,0	24,0	51,0	1,300	25
290822		10	10,5	10,0	12,0	24,0	55,0	1,500	25
290824		12	13,0	10,0	12,0	24,0	57,0	1,400	100
290826	35	6	6,5	12,0	14,0	27,0	49,5	2,100	25
290830		8	8,5	12,0	14,5	27,0	54,0	2,100	25
290832		10	10,5	12,0	14,5	27,0	59,0	2,300	25
290834		12	13,0	12,0	14,5	27,0	61,0	2,300	25
290836	50	6	6,5	14,0	16,5	32,0	59,0	3,100	25
290840		8	8,5	14,0	16,5	32,0	59,0	3,100	25
290842		10	10,5	14,0	16,5	32,0	63,0	3,300	25
290844		12	13,0	14,0	16,5	32,0	68,0	3,400	25
290846		14	15,0	14,0	16,5	32,0	71,5	3,600	20
290848	70	8	8,5	16,4	18,9	33,5	65,5	3,100	50
290850		10	10,5	16,4	18,9	33,5	66,5	5,000	15
290852		12	13,0	16,4	18,9	33,5	70,5	5,000	15
290854		14	15,0	16,4	18,9	33,5	73,5	5,000	50
290856		16	17,0	16,4	18,9	33,5	78,5	5,000	50
290858	95	8	8,5	17,8	20,8	40,0	74,0	5,800	25
290860		10	10,5	17,8	20,8	40,0	74,0	5,800	25
290862		12	13,0	17,8	20,8	40,0	76,0	5,200	25
290864		14	15,0	17,8	20,8	40,0	79,5	6,200	25
290866		16	17,0	17,8	20,8	40,0	84,0	6,200	25
290868	120	8	8,5	19,3	22,3	41,5	80,5	6,500	25
290870		10	10,5	19,3	22,3	41,5	80,5	7,000	25
290872		12	13,0	19,3	22,3	41,5	80,5	6,200	20
290874		14	15,0	19,3	22,3	41,5	82,5	6,600	20
290876		16	17,0	19,3	22,3	41,5	85,5	6,500	20
290878	150	10	10,5	20,8	23,8	48,0	88,0	8,800	20
290880		12	13,0	20,8	23,8	48,0	89,0	8,400	20
290882		14	15,0	20,8	23,8	48,0	90,0	8,500	20
290884		16	17,0	20,8	23,8	48,0	92,0	8,100	20
290886		20	21,0	20,8	23,8	48,0	106,0	8,100	20

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Tubular cable lugs for fine-wired, high flexible conductors

- For fine stranded conductors, DIN VDE 60228 e.g. VDE 0295 class 5/6
- Material: 99.9% E-CU DIN 40500
- Surface: tin-plated
- With inspection hole



F-Type

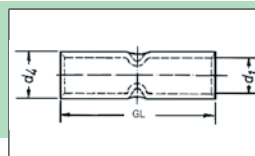


Cu

Art. no.	CSS	M	d2	d1	d4	A	l	B	c1	c2	kg/100	PU	PU
290250	10	6	6,4	5,0	8,0	16,0	23,0	11,5	6,0	7,0	0,700	1000	100
290252		8	8,4	5,0	8,0	17,0	26,0	13,5	7,0	9,0	0,700	800	100
290254		10	10,5	5,0	8,0	16,0	26,0	16,0	8,0	10,0	0,800	600	100
290256		12	13,0	5,0	8,0	17,0	31,0	19,0	10,0	14,0	0,800	600	100
290258	16	6	6,4	6,0	9,0	17,0	26,0	13,0	7,0	9,0	0,900	600	100
290260		8	8,4	6,0	9,0	17,0	26,0	13,0	7,0	9,0	0,900	400	100
290262		10	10,5	6,0	9,0	16,0	28,0	16,0	10,0	12,0	1,000	400	100
290264		12	13,0	6,0	9,0	22,0	35,0	22,0	12,0	13,0	1,000	400	100
290266	25	6	6,4	8,0	11,0	20,0	30,0	16,0	7,0	10,0	1,300	400	50
290268		8	8,4	8,0	11,0	20,0	30,0	16,0	8,0	10,0	1,300	400	50
290270		10	10,5	8,0	11,0	20,0	32,0	17,0	10,0	12,0	1,500	300	50
290272		12	13,0	8,0	11,0	22,0	35,0	22,0	12,0	13,0	1,500	300	50
290276	35	8	8,4	9,0	13,0	25,0	35,0	18,0	10,0	10,0	2,500	240	40
290278		10	10,5	9,0	13,0	24,0	35,0	18,0	10,0	11,0	2,500	16,0	40
290280		12	13,0	9,0	13,0	26,0	40,0	22,0	12,0	14,0	2,600	16,0	40
290282	50	8	8,4	11,0	14,5	27,0	39,0	21,0	11,0	12,0	3,000	15	25
290284		10	10,5	11,0	14,5	27,0	39,0	21,0	11,0	12,0	2,900	150	25
290286		12	13,0	11,0	14,5	27,0	41,0	21,0	12,0	14,0	2,900	100	25
290288		16	17,0	11,0	14,5	27,0	44,0	27,0	15,0	17,0	3,000	100	25
290290	70	8	8,4	13,0	17,0	32,0	44,0	25,0	11,0	12,0	4,400	100	25
290292		10	10,5	13,0	17,0	32,0	44,0	25,0	11,0	12,0	4,400	100	25
290294		12	13,0	13,0	17,0	32,0	46,0	25,0	12,0	14,0	4,400	100	25
290296		16	17,0	13,0	17,0	32,0	49,0	28,0	15,0	17,0	4,500	100	25
290300	95	10	10,5	15,0	20,0	37,0	54,0	29,0	15,0	17,0	7,700	100	25
290302		12	13,0	15,0	20,0	37,0	54,0	29,0	15,0	17,0	7,400	100	25
290304		16	17,0	15,0	20,0	37,0	54,0	29,0	15,0	17,0	7,000	40	10
290306	120	10	10,5	17,0	22,0	41,0	58,0	32,0	15,0	17,0	9,400	80	20
290308		12	13,0	17,0	22,0	41,0	58,0	32,0	15,0	17,0	8,900	80	20
290310		16	17,0	17,0	22,0	41,0	58,0	32,0	15,0	17,0	8,700	72	18
290316	150	12	13,0	19,0	25,0	48,0	65,0	36,0	15,0	17,0	13,300	70	12
290318		16	17,0	19,0	25,0	48,0	65,0	36,0	15,0	17,0	12,700	48	12
290320		20	21,0	19,0	25,0	48,0	68,0	36,0	19,0	20,0	8,200	48	10
290322	185	12	13,0	21,0	27,0	54,0	71,0	39,0	15,0	17,0	16,200	40	20
290324		16	17,0	21,0	27,0	54,0	71,0	39,0	15,0	17,0	15,800	40	20
290326		20	21,0	21,0	27,0	54,0	74,0	39,0	19,0	20,0	14,200	40	15
290328	240	12	13,0	24,0	30,0	56,0	76,0	44,0	19,0	20,0	20,300	30	15
290330		16	17,0	24,0	30,0	56,0	76,0	44,0	19,0	20,0	20,700	30	15
290332		20	21,0	24,0	30,0	56,0	76,0	44,0	19,0	20,0	18,300	30	15
290334	300	12	13,0	26,0	32,0	62,0	93,0	48,0	21,0	31,0	30,000	16	8
290336		16	17,0	26,0	32,0	62,0	93,0	48,0	21,0	31,0	28,100	16	8
290338		20	21,0	26,0	32,0	62,0	93,0	48,0	21,0	31,0	26,200	16	8

Butt-connector for fine stranded high flexible conductors

- For fine stranded conductors, DIN VDE 60228 e.g. VDE 0295 class 5/6
- Material: 99.9% E-CU DIN 40500
- Surface: tin-plated
- With buttmarks for precise cable insertion



F-Type

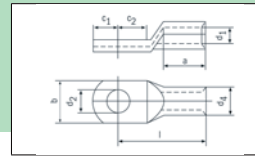


Cu

Art. no.	CSS	d1	d4	TL	kg/100	PU	PU
290350	10	5,0	8,0	30	0,800	600	50
290352	16	6,0	9,0	35	1,000	500	50
290354	25	8,0	11,0	35	1,300	200	50
290356	35	9,0	13,0	35	2,100	200	25
290358	50	11,0	14,5	45	3,700	100	25
290360	70	13,0	17,0	45	4,600	50	25
290362	95	15,0	20,0	45	7,300	50	50
290364	120	17,0	22,0	55	6,900	50	25
290366	150	19,0	25,0	65	9,800	50	18
290368	185	21,0	27,0	70	13,600	36	18
290370	240	24,0	30,0	70	16,000	12	6
290372	300	26,0	32,0	75	7,000	6	6
290374	400	30,0	36,0	100	11,100	6	6

Cable lugs acc. to DIN 46235

- Material: 99,9% E-Cu DIN 40500
- Tube dimension acc. to DIN 46235 • Surface: bare
- With marks for correct crimping
- Annealed material for easier crimping



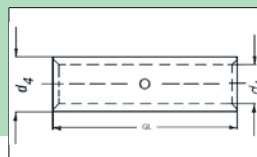
Cu

Art. no.	CSS	M	ld.	d2	d1	d4	A	v1	v2	l	B	c1	c2	PU	
290001	6	5	5	5,3	3,8	5,5	10,0	2	-	24,0	8,5	6,5	7,5	800	100
290003		6	5	6,4	3,8	5,5	10,0	2	-	24,0	8,5	7,5	8,0	800	100
290005		8	5	8,4	3,8	5,5	10,0	2	-	24,0	13,0	10,0	10,0	800	100
290007	10	5	6	5,3	4,5	6,0	10,0	2	-	27,0	9,0	7,0	8,5	800	100
290011		6	6	6,4	4,5	6,0	10,0	2	-	27,0	9,0	7,5	8,5	800	100
290013		8	6	8,4	4,5	6,0	10,0	2	-	27,0	13,0	10,0	10,0	800	100
290015		10	6	10,5	4,5	6,0	10,0	2	-	28,0	15,0	10,0	10,0	800	100
290019	16	6	8	6,4	5,5	8,5	20,0	2	1	36,0	13,0	7,5	8,0	500	50
290021		8	8	8,4	5,5	8,5	20,0	2	1	36,0	13,0	10,0	10,0	400	50
290025		10	8	10,5	5,5	8,5	20,0	2	1	36,0	17,0	12,0	12,0	400	50
290027		12	8	13,0	5,5	8,5	20,0	2	1	36,0	18,0	13,0	13,0	400	50
290031	25	6	10	6,4	7,0	10,0	20,0	2	1	38,0	14,0	7,5	8,0	300	50
290033		8	10	8,4	7,0	10,0	20,0	2	1	38,0	16,0	10,0	10,0	300	50
290035		10	10	10,5	7,0	10,0	20,0	2	1	38,0	17,0	12,0	12,0	300	50
290037		12	10	13,0	7,0	10,0	20,0	2	1	38,0	19,0	13,0	13,0	300	50
290039	35	6	12	6,4	8,2	12,5	20,0	2	1	42,0	17,0	7,5	8,0	150	25
290042		8	12	8,4	8,2	12,5	20,0	2	1	42,0	17,0	10,0	10,0	150	25
290044		10	12	10,5	8,2	12,5	20,0	2	1	42,0	19,0	12,0	12,0	150	25
290049		12	12	13,0	8,2	12,5	20,0	2	1	42,0	21,0	13,0	13,0	150	25
290050	50	8	14	8,4	10,0	14,5	28,0	3	1	52,0	20,0	10,0	10,0	100	25
290051		10	14	10,5	10,0	14,5	28,0	3	1	52,0	22,0	12,0	12,0	100	25
290052		12	14	13,0	10,0	14,5	28,0	3	1	52,0	24,0	13,0	13,0	100	25
290053		16	14	17,0	10,0	14,5	28,0	3	1	52,0	28,0	16,0	16,0	100	25
290054	70	8	16	8,4	11,5	16,5	28,0	3	1	55,0	24,0	10,0	10,0	100	25
290055		10	16	10,5	11,5	16,5	28,0	3	1	55,0	24,0	12,0	12,0	100	25
290056		12	16	13,0	11,5	16,5	28,0	3	1	55,0	24,0	13,0	13,0	100	25
290057		16	16	17,0	11,5	16,5	28,0	3	1	55,0	30,0	16,0	16,0	80	20
290058	95	10	18	10,5	13,5	19,0	35,0	4	2	65,0	28,0	12,0	12,0	60	15
290059		12	18	13,0	13,5	19,0	35,0	4	2	65,0	28,0	13,0	13,0	60	15
290060		16	18	17,0	13,5	19,0	35,0	4	2	65,0	32,0	16,0	16,0	60	15
290061	120	10	20	10,5	15,5	21,0	35,0	4	2	70,0	32,0	15,0	16,0	40	20
290063		12	20	13,0	15,5	21,0	35,0	4	2	70,0	32,0	16,0	17,0	40	20
290064		16	20	17,0	15,5	21,0	35,0	4	2	70,0	32,0	19,0	20,0	40	20
290065		20	20	21,0	15,5	21,0	35,0	4	2	70,0	38,0	21,0	22,0	40	20
290066	150	10	22	10,5	17,0	23,5	35,0	4	2	78,0	34,0	15,0	16,0	30	15
290067		12	22	13,0	17,0	23,5	35,0	4	2	78,0	34,0	16,0	17,0	30	15
290068		16	22	17,0	17,0	23,5	35,0	4	2	78,0	34,0	19,0	20,0	30	15
290069		20	22	21,0	17,0	23,5	35,0	4	2	78,0	40,0	21,0	22,0	30	15
290070	185	10	25	10,5	19,0	25,5	40,0	4	2	82,0	37,0	15,0	16,0	20	10
290071		12	25	13,0	19,0	25,5	40,0	4	2	82,0	37,0	16,0	17,0	20	10
290072		16	25	17,0	19,0	25,5	40,0	4	2	82,0	37,0	19,0	20,0	20	10
290073		20	25	21,0	19,0	25,5	40,0	4	2	82,0	40,0	21,0	22,0	20	10
290074	240	12	28	13,0	21,5	29,0	40,0	5	2	92,0	42,0	16,0	17,0	16	8
290075		16	28	17,0	21,5	29,0	40,0	5	2	92,0	42,0	19,0	20,0	16	8
290076		20	28	21,0	21,5	29,0	40,0	5	2	92,0	45,0	21,0	22,0	16	8
290077	300	16	32	17,0	24,5	32,0	50,0	-	2	100,0	46,0	19,0	22,0	8	4
290078		20	32	21,0	24,5	32,0	50,0	-	2	100,0	46,0	19,0	22,0	8	4
290079	400	16	38	17,0	27,5	38,5	70,0	-	3	115,0	55,0	25,0	25,0	6	6
290080		20	38	21,0	27,5	38,5	70,0	-	3	115,0	54,0	25,0	25,0	6	6
290081	500	20	42	21,0	31,0	42,0	70,0	-	3	125,0	60,0	25,0	25,0	6	6
290082	625	20	44	21,0	34,5	44,0	80,0	-	3	125,0	64,0	25,0	25,0	1	1
290083	800	20	52	21,0	40,0	52,0	100,0	-	3	165,0	75,0	30,0	30,0	1	1
290084	1000	20	58	21,0	44,0	58,0	100,0	-	3	165,0	83,0	30,0	30,0	1	1

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Compression joints acc. to DIN 46267 Part 1 (for non-tension connections)

- Material: 99.9% E-Cu DIN 40500
- Surface: bare
- With marks for correct crimping
- Annealed material for easier crimping

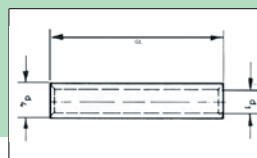


Cu

Art. no.	CSS	ld.	d1	d4	v1	v2	TL	kg/100	PU
291520	6	5	3,8	5,5	2	-	30	0,300	1600
291522	10	6	4,5	6,0	2	-	30	0,600	1000
291524	16	8	5,5	8,5	2	1	50	1,450	300
291526	25	10	7,0	10,0	2	1	50	1,700	300
291528	35	12	8,2	12,5	2	1	50	3,100	200
291530	50	14	10,0	14,5	3	1	55	4,400	100
291532	70	16	11,5	16,5	3	1	55	5,300	100
291534	95	18	13,5	19,0	4	2	70	8,400	50
291536	120	20	15,5	21,0	4	2	70	9,600	50
291538	150	22	17,0	23,5	4	2	80	14,500	30
291540	185	25	19,0	25,5	4	2	85	16,200	30
291542	240	28	21,5	29,0	5	2	90	22,400	20
291544	300	32	24,5	32,0	-	2	100	29,500	10
291546	400	38	27,5	38,5	-	3	150	72,500	8
291548	500	42	31,0	42,0	-	3	160	85,600	6
291550	625	44	34,5	44,0	-	3	160	79,900	6
291552	800	52	40,0	52,0	-	3	200	151,000	6
291554	1000	58	44,0	58,0	-	3	1000	198,000	6

Compression joints acc. to DIN 48085, Part 1 (for full-tension cable connections)

- Material: 99.9% E-Cu DIN 40500 • Surface: bare
- With marks for correct crimping
- Annealed material for easier crimping
- For full-tension cable connections, overhead line construction

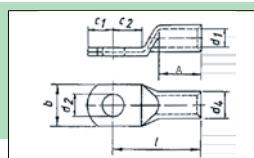


Cu

Art. no.	CSS	ld.	d1	d4	v1	v2	TL	kg/100	PU
291440	6	6	3,8	6,5	8	-	65	1,200	50
291442	10	8	4,5	8,5	10	-	80	2,800	50
291444	16	8	5,5	8,5	10	-	95	2,300	50
291446	25	10	7,0	10,0	10	-	95	2,600	50
291448	35	12	8,2	12,5	10	-	95	5,800	25
291450	50	14	10,0	14,5	10	-	110	7,000	25
291452	70	16	11,5	16,5	10	-	110	9,000	25
291454	95	20	13,5	21,0	16	8	145	8,600	10
291456	120	22	15,0	23,5	16	8	160	29,200	10
291458	150	25	16,5	25,5	16	8	180	117,100	10
291460	185	32	18,5	31,5	-	10	260	17,000	5
291462	240	34	21,0	34,5	-	12	310	163,700	5
291464	300	38	23,5	38,5	-	14	360	29,200	5

Cable lugs acc. to DIN 46235

- Material: 99,9% E-Cu DIN 40500
- Tube dimension acc. to DIN 46235 • Surface: tin-plated
- With marks for correct crimping
- Annealed material for easier crimping



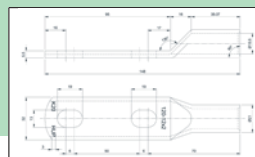
Cu

Art. no.	CSS	M	ld.	d2	d1	d4	A	v1	v2	l	B	c1	c2	PU
290404	6	6	5	6,4	3,8	5,5	10,0	2	-	24,0	8,5	7,5	8,0	100
290406		8	5	8,4	3,8	5,5	10,0	2	-	24,0	13,0	10,0	10,0	100
290408	10	5	6	5,3	4,5	6,0	10,0	2	-	27,0	9,0	7,0	8,5	100
290410		6	6	6,4	4,5	6,0	10,0	2	-	27,0	9,0	7,5	8,5	100
290412		8	6	8,4	4,5	6,0	10,0	2	-	27,0	13,0	10,0	10,0	100
290414		10	6	10,5	4,5	6,0	10,0	2	-	28,0	15,0	10,0	10,0	100
290416	16	6	8	6,4	5,5	8,5	20,0	2	1	36,0	13,0	7,5	8,0	50
290418		8	8	8,4	5,5	8,5	20,0	2	1	36,0	13,0	10,0	10,0	50
290420		10	8	10,5	5,5	8,5	20,0	2	1	36,0	17,0	12,0	12,0	50
290422		12	8	13,0	5,5	8,5	20,0	2	1	36,0	18,0	13,0	13,0	50
290424	25	6	10	6,4	7,0	10,0	20,0	2	1	38,0	14,0	7,5	8,0	50
290426		8	10	8,4	7,0	10,0	20,0	2	1	38,0	16,0	10,0	10,0	50
290428		10	10	10,5	7,0	10,0	20,0	2	1	38,0	17,0	12,0	12,0	50
290430		12	10	13,0	7,0	10,0	20,0	2	1	38,0	19,0	13,0	13,0	50
290432	35	6	12	6,4	8,2	12,5	20,0	2	1	42,0	17,0	7,5	8,0	25
290434		8	12	8,4	8,2	12,5	20,0	2	1	42,0	17,0	10,0	10,0	25
290436		10	12	10,5	8,2	12,5	20,0	2	1	42,0	19,0	12,0	2,0	25
290438		12	12	13,0	8,2	12,5	20,0	2	1	42,0	21,0	13,0	13,0	25
290440	50	8	14	8,4	10,0	14,5	28,0	3	1	52,0	20,0	10,0	10,0	25
290442		10	14	10,5	10,0	14,5	28,0	3	1	52,0	22,0	12,0	12,0	25
290444		12	14	13,0	10,0	14,5	28,0	3	1	52,0	24,0	13,0	13,0	25
290446		16	14	17,0	10,0	14,0	28,0	3	1	52,0	28,0	16,0	16,0	20
290448	70	8	16	8,4	11,5	16,5	28,0	3	1	55,0	24,0	10,0	10,0	25
290450		10	16	10,5	11,5	16,5	28,0	3	1	55,0	24,0	12,0	12,0	25
290452		12	16	13,0	11,5	16,5	28,0	3	1	55,0	24,0	13,0	13,0	25
290454		16	16	17,0	11,5	16,5	28,0	3	1	55,0	30,0	16,0	16,0	20
290456	95	10	18	10,5	13,5	19,0	35,0	4	2	65,0	28,0	12,0	12,0	15
290458		12	18	13,0	13,5	19,0	35,0	4	2	65,0	28,0	13,0	13,0	15
290460		16	18	17,0	13,5	19,0	35,0	4	2	65,0	32,0	16,0	16,0	15
290462	120	10	20	10,5	15,5	21,0	35,0	4	2	70,0	32,0	15,0	16,0	20
290464		12	20	13,0	15,5	21,0	35,0	4	2	70,0	32,0	16,0	17,0	20
290466		16	20	17,0	15,5	21,0	35,0	4	2	70,0	32,0	19,0	20,0	20
290468		20	20	21,0	15,5	21,0	35,0	4	2	70,0	38,0	21,0	22,0	20
290470	150	10	22	10,5	17,0	23,5	35,0	4	2	78,0	34,0	15,0	16,0	15
290472		12	22	13,0	17,0	23,5	35,0	4	2	78,0	34,0	16,0	17,0	15
290474		16	22	17,0	17,0	23,5	35,0	4	2	78,0	34,0	19,0	20,0	15
290476		20	22	21,0	17,0	23,5	35,0	4	2	78,0	40,0	21,0	22,0	15
290478	185	10	25	10,5	19,0	25,5	40,0	4	2	82,0	37,0	15,0	16,0	10
290480		12	25	13,0	19,0	25,5	40,0	4	2	82,0	37,0	16,0	17,0	10
290482		16	25	17,0	19,0	25,5	40,0	4	2	82,0	37,0	19,0	20,0	10
290484		20	25	21,0	19,0	25,5	40,0	4	2	82,0	40,0	21,0	22,0	10
290486	240	12	28	13,0	21,5	29,0	40,0	5	2	92,0	42,0	16,0	17,0	8
290488		16	28	17,0	21,5	29,0	40,0	5	2	92,0	42,0	19,0	20,0	8
290490		20	28	21,0	21,5	29,0	40,0	5	2	92,0	45,0	21,0	22,0	8
290492	300	16	32	17,0	24,5	32,0	50,0	-	2	100,0	46,0	19,0	22,0	5
290494		20	32	21,0	24,5	32,0	50,0	-	2	100,0	46,0	19,0	22,0	5
290496	400	16	38	17,0	27,5	38,5	70,0	-	3	115,0	54,0	25,0	25,0	3
290498		20	38	21,0	27,5	38,5	70,0	-	3	115,0	54,0	25,0	25,0	1
290516	500	20	42	21,0	31,0	42,0	70,0	-	3	125,0	60,0	25,0	25,0	1
290518	625	20	44	21,0	34,5	44,0	80,0	-	3	125,0	64,0	25,0	25,0	1
290520	800	20	52	21,0	40,0	52,0	100,0	-	3	165,0	75,0	30,0	30,0	6
290522	1000	20	58	21,0	44,0	58,0	100,0	-	3	165,0	83,0	30,0	30,0	6

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Cable lugs with 2 oval holes acc. to DIN 46235

- **Material: 99,9% E-Cu DIN 40500**
- **Tube dimension acc. to DIN 46235 • Surface: tin-plated**
- **With marks for correct crimping • version with 2 oval holes**
- **Annealed material for easier crimping**

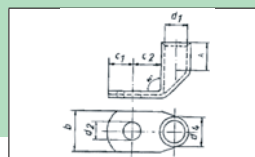


Cu

Art. no.	CSS	M	ld.	d2	d1	d4	A	l	B	c1	c2	kg/100	PU
290550	70	12	16	13,0	11,5	16,5	28,0	55,0	24,0	13,0	13,0	10,800	25
290552	95	12	18	13,0	13,5	19,0	35,0	65,0	28,0	13,0	13,0	14,800	20
290554	120	12	20	13,0	15,5	21,0	35,0	70,0	32,0	16,0	17,0	18,600	25
290556	150	12	22	13,0	17,0	23,5	35,0	78,0	34,0	16,0	17,0	26,200	25
290558	185	12	25	13,0	19,0	25,5	40,0	82,0	37,0	16,0	17,0	26,800	10
290560	240	12	28	13,0	21,5	29,0	40,0	92,0	42,0	16,0	17,0	40,200	10

Angled cable lugs 90° acc. to DIN 46325

- **Material: 99,9% E-Cu DIN 40500**
- **Tube dimension acc. to DIN 46235 • Surface: tin-plated**
- **With marks for correct crimping**
- **Annealed material for easier crimping**

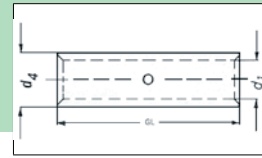


Cu

Art. no.	CSS	M	ld.	d2	d1	d4	A	v1	v2	B	c1	c2	kg/100	PU
291700	6	5	5	5,3	3,8	5,5	10,0	2	-	8,5	6,5	9,0	0,400	100
291702		6	5	6,4	3,8	5,5	10,0	2	-	8,5	7,5	10,0	0,300	100
291704	10	5	6	5,3	4,5	6,0	10,0	2	-	9,0	7,0	10,0	0,400	100
291706		6	6	6,4	4,5	6,0	10,0	2	-	9,0	7,5	10,0	0,500	100
291708		8	6	8,4	4,5	6,0	10,0	2	-	13,0	10,0	13,0	1,100	100
291710	16	6	8	6,4	5,5	8,5	20,0	2	1	13,0	7,5	11,0	1,200	50
291712		8	8	8,4	5,5	8,5	20,0	2	1	13,0	10,0	13,0	1,100	50
291714		10	8	10,5	5,5	8,5	20,0	2	1	17,0	12,0	15,0	1,200	50
291716		12	8	13,0	5,5	8,5	20,0	2	1	18,0	13,0	18,0	1,200	50
291718	25	6	10	6,4	7,0	10,0	20,0	2	1	14,0	7,5	11,0	1,500	50
291720		8	10	8,4	7,0	10,0	20,0	2	1	16,0	10,0	13,0	1,500	50
291722		10	10	10,5	7,0	10,0	20,0	2	1	17,0	12,0	15,0	1,500	50
291724		12	10	13,0	7,0	10,0	20,0	2	1	19,0	13,0	18,0	1,500	50
291726	35	8	12	8,4	8,2	12,5	20,0	2	1	17,0	10,0	13,0	2,600	25
291728		10	12	10,5	8,2	12,5	20,0	2	1	19,0	12,0	15,0	2,900	25
291730		12	12	13,0	8,2	12,5	20,0	2	1	21,0	13,0	18,0	2,900	25
291732	50	8	14	8,4	10,0	14,0	28,0	3	1	20,0	10,0	16,0	4,100	25
291734		10	14	10,5	10,0	14,0	28,0	3	1	22,0	12,0	16,0	4,200	20
291736		12	14	13,0	10,0	14,5	28,0	3	1	24,0	13,0	18,0	4,500	20
291738		16	14	17,0	10,0	14,5	28,0	3	1	28,0	16,0	22,0	4,100	20
291740	70	8	16	8,4	11,5	16,5	28,0	3	1	24,0	10,0	14,0	5,400	30
291742		10	16	10,5	11,5	16,5	28,0	3	1	24,0	12,0	16,0	5,500	30
291744		12	16	13,0	11,5	16,5	28,0	3	1	24,0	13,0	18,0	6,000	15
291746		16	16	17,0	11,5	16,5	28,0	3	1	30,0	16,0	22,0	5,600	30
291748	95	10	18	10,5	13,5	19,0	35,0	4	2	28,0	12,0	17,0	8,400	10
291750		12	18	13,0	13,5	19,0	35,0	4	2	28,0	13,0	18,0	8,700	10
291752		16	18	17,0	13,5	19,0	35,0	4	2	32,0	16,0	22,0	8,700	10
291754	120	10	20	10,5	15,5	21,0	35,0	4	2	32,0	15,0	17,0	10,000	20
291756		12	20	13,0	15,5	21,0	35,0	4	2	32,0	16,0	18,0	10,000	20
291758		16	20	17,0	15,5	21,0	35,0	4	2	32,0	18,0	22,0	10,200	20
291760		20	20	21,0	15,5	21,0	35,0	4	2	38,0	21,0	24,0	9,800	15
291762	150	10	22	10,5	17,0	23,5	35,0	4	2	34,0	15,0	17,0	13,100	15
291764		12	22	13,0	17,0	23,5	35,0	4	2	34,0	16,0	18,0	13,200	15
291766		16	22	17,0	17,0	23,5	35,0	4	2	34,0	19,0	22,0	14,100	15
291768		20	22	21,0	17,0	23,5	35,0	4	2	40,0	21,0	24,0	13,700	10
291770	185	10	25	10,5	19,0	25,5	40,0	4	2	37,0	15,0	22,0	16,400	10
291772		12	25	13,0	19,0	25,5	40,0	4	2	37,0	16,0	22,0	15,600	10
291774		16	25	17,0	19,0	25,5	40,0	4	2	37,0	19,0	22,0	18,600	10
291776		20	25	21,0	19,0	25,5	40,0	4	2	40,0	21,0	24,0	17,500	10
291778	240	12	28	13,0	21,5	29,0	40,0	5	2	42,0	16,0	22,0	22,400	10
291780		16	28	17,0	21,5	29,0	40,0	5	2	42,0	19,0	22,0	22,900	10
291782		20	28	21,0	21,5	29,0	40,0	5	2	45,0	21,0	24,0	21,000	10

Compression joints acc. to DIN 46267, Part 1 (for non-tension connections)

- Material: 99.9% E-CU DIN 40500
- Surface: tin-plated • Annealed material for easier crimping
- For stranded conductors e.g. VDE 0295 class 2
- With buttmarks for precise cable insertion



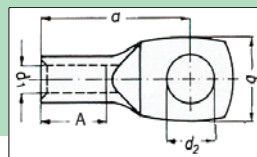
Cu

Art. no.	CSS	ld.	d1	d4	v1	v2	TL	kg/100	1600	PU
291521	6	5	3,8	5,5	2	-	30	0,300	1600	100
291523	10	6	4,5	6,0	2	-	30	0,600	1000	100
291525	16	8	5,5	8,5	2	1	50	1,450	300	50
291527	25	10	7,0	10,0	2	1	50	1,600	300	50
291529	35	12	8,2	12,5	2	1	50	3,000	200	50
291531	50	14	10,0	14,5	3	1	55	4,100	100	25
291533	70	16	11,5	16,5	3	1	55	5,400	100	25
291535	95	18	13,5	19,0	4	2	70	8,300	50	25
291537	120	20	15,5	21,0	4	2	70	9,500	50	25
291539	150	22	17,0	23,5	4	2	80	14,200	30	15
291541	185	25	19,0	25,5	4	2	85	16,900	30	5
291543	240	28	21,5	29,0	5	2	90	22,600	20	10
291545	300	32	24,5	32,0	-	2	100	29,700	10	5
291547	400	38	27,5	38,5	-	3	150	74,000	8	8
291549	500	42	31,0	42,0	-	3	160	89,100	5	5
291551	625	44	34,5	44,0	-	3	160	79,000	1	1
291553	800	52	40,0	52,0	-	3	200	151,300	1	1
291555	1000	58	44,0	58,0	-	3	1000	198,000	1	1

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Tubular cable lugs of pure nickel, ring type

- Material: nickel
- Temperature resistant to 500° C

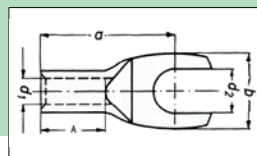


Ni

Art. no.	CSS	M	d2	d1	A	l	B	kg/100	PU
292560	0,5-1,0	4	4,3	1,6	13,0	6,0	6,5	0,105	100
292562		5	5,3	1,6	14,0	6,0	7,5	0,086	100
292564	1,5-2,5	4	4,3	2,3	13,0	6,0	7,0	0,109	100
292566		5	5,3	2,3	14,0	6,0	8,5	0,122	100
292568		6	6,5	2,3	16,0	6,0	9,5	0,134	100
292570	4-6	4	4,3	3,6	18,0	8,0	8,5	0,300	100
292572		5	5,3	3,6	19,0	8,0	9,5	0,200	100
292574		6	6,5	3,6	19,0	8,0	9,5	0,300	100

Tubular terminals of pure nickel, forke type

- Material: nickel
- Temperature resistant to 500° C

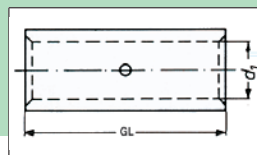


Ni

Art. no.	CSS	M	d2	d1	A	l	B	kg/100	PU
292580	0,5-1,0	4	4,3	1,6	13,0	6,0	6,5	0,073	100
292582		5	5,3	1,6	14,0	6,0	7,5	0,070	100
292584	1,5-2,5	4	4,3	2,3	13,0	6,0	7,0	0,100	100
292586		5	5,3	2,3	14,0	6,0	8,5	0,100	100
292588		6	6,5	2,3	16,0	6,0	9,5	0,110	100
292590	4,0-6,0	4	4,3	3,6	18,0	8,0	8,5	0,300	100
292592		5	5,3	3,6	19,0	8,0	9,5	0,300	100

Butt-connectors, made from pure nickel

- Material: nickel
- Temperature resistant to 500° C
- With buttmarks for precise cable insertion

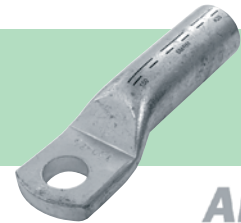
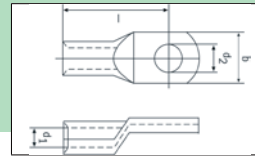


Ni

Art. no.	CSS	d1	TL	kg/100	PU
292596	0,5-1	1,6	15	0,101	100
292598	1,5-2,5	2,3	15	0,110	100
292600	4-6	3,6	15	0,190	100

Al compression cable lugs

- Material: Al 99,5% • Surface: bare • Tube dimension to DIN 46329
- With marks for correct crimping • For non-tension connections of Al-cables DIN 48201, part 1 and DIN EN 50182
- For pre-rounded sm/se sector shaped conductors

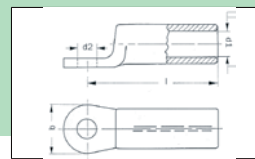


AI

Art. no.	CSS rm/sm	se	M	ld.	d2	d1	v1	v2	l	B	kg/100	PU
292904	16	25	8	12	8,5	5,8	4	2	52,0	18,0	1,400	50
292906			10	12	10,5	5,8	4	2	52,0	18,0	1,400	50
292908	25	35	8	12	8,5	6,8	4	2	60,0	18,0	1,400	50
292910			10	12	10,5	6,8	4	2	60,0	18,0	1,400	50
292912	35	50	10	14	10,5	8,0	5	2	67,0	21,0	2,100	50
292914			12	14	13,0	8,0	5	2	67,0	21,0	2,000	50
292916	50	70	10	16	10,5	9,8	5	2	72,0	25,0	2,700	50
292918			12	16	13,0	9,8	5	2	72,0	25,0	2,700	50
292920	70	95	10	18	10,5	11,2	6	3	86,0	28,0	4,400	40
292922			12	18	13,0	11,2	6	3	86,0	28,0	4,200	40
292924	95	120	10	22	10,5	13,2	6	3	90,0	32,0	6,300	25
292926			12	22	13,0	13,2	6	3	90,0	32,0	6,400	30
292928			16	22	17,0	13,2	6	3	90,0	34,0	6,400	25
292930	120	150	12	22	13,0	14,7	6	3	91,0	32,0	6,700	25
292932			16	22	17,0	14,7	6	3	91,0	34,0	7,000	25
292934	150	185	12	25	13,0	16,3	6	3	103,0	35,0	9,400	20
292936			16	25	17,0	16,3	6	3	103,0	35,0	8,300	20
292938			20	25	21,0	16,3	6	3	103,0	41,0	9,100	20
292940	185	240	12	28	13,0	18,3	6	3	106,0	40,0	11,700	15
292942			16	28	17,0	18,3	6	3	106,0	40,0	11,600	15
292944			20	28	21,0	18,3	6	3	106,0	40,0	12,000	15
292946	240	300	12	32	13,0	21,0	8	3	116,0	45,0	16,900	10
292948			16	32	17,0	21,0	8	3	116,0	45,0	16,900	12
292950			20	32	21,0	21,0	8	3	116,0	45,0	16,200	10

Al compression cable lugs acc. to DIN 46329, longitudinally sealed

- Material: Al 99,5% • Surface: bare • Design with oil stop
- Tube dimension to DIN 46329 • With marks for correct crimping
- For non-tension connections of Al-cables DIN 48201, part 1 and DIN EN 50182 • For pre-rounded sm/se sector shaped conductors

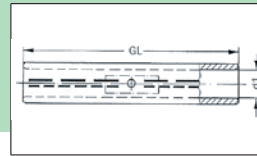


AI

Art. no.	CSS rm/sm	se	M	ld.	d2	d1	v1	v2	l	B	kg/100	PU
292770	35	50	10	14	10,5	8,0	5	2	62,0	25,0	2,000	50
292772			12	14	13,0	8,0	5	2	62,0	25,0	2,000	50
292774	50	70	10	16	10,5	9,8	5	2	62,0	25,0	2,800	50
292776			12	16	13,0	9,8	5	2	62,0	25,0	2,600	50
292778	70	95	10	18	10,5	11,2	6	3	72,0	25,0	3,900	25
292780			12	18	13,0	11,2	6	3	72,0	25,0	3,500	25
292782	95	120	10	22	10,5	13,2	6	3	75,0	25,0	5,900	25
292784			12	22	13,0	13,2	6	3	75,0	25,0	5,600	25
292786	120	150	12	22	13,0	14,7	6	3	80,0	30,0	6,400	25
292788			16	22	17,0	14,7	6	3	80,0	30,0	6,600	25
292790	150	185	10	25	10,5	16,3	6	3	90,0	30,0	8,400	25
292792			12	25	13,0	16,3	6	3	90,0	30,0	8,300	25
292794			16	25	17,0	16,3	6	3	90,0	30,0	8,200	20
292796	185	240	10	28	10,5	18,3	6	3	91,0	30,0	10,400	20
292798			12	28	13,0	18,3	6	3	91,0	30,0	10,500	20
292800			16	28	17,0	18,3	6	3	91,0	30,0	12,000	20
292802	240	300	12	32	13,0	21,0	8	3	103,0	38,0	16,100	10
292804			16	32	17,0	21,0	8	3	103,0	38,0	15,900	10
292806			20	32	21,0	21,0	8	3	103,0	38,0	15,200	10
292808	300	-	12	34	13,0	23,3	8	3	103,0	38,0	17,200	10
292810			16	34	17,0	23,3	8	3	103,0	38,0	18,500	10
292812			20	34	21,0	23,3	8	3	103,0	38,0	17,300	10
292814	400	-	12	38	13,0	26,0	-	4	116,0	38,0	24,700	10
292816			16	38	17,0	26,0	-	4	116,0	38,0	23,000	10
292818			20	38	21,0	26,0	-	4	116,0	38,0	23,500	10
292820	500	-	12	44	13,0	29,0	-	4	122,0	44,0	43,600	6
292822			16	44	17,0	29,0	-	4	155,0	44,0	33,200	6
292824			20	44	21,0	29,0	-	4	122,0	44,0	43,000	6

Al-Crimp connector DIN 46267 Part 2

- Material: Al 99,5% • Surface: bare • Design with oil stop
- Manufactured DIN 46267, part 2 • With marks for correct crimping
- For non-tension connections of Al conductors to DIN 48201, DIN EN 50182
- For pre-rounded sm/se sector shaped conductors

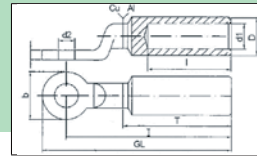


Al

Art. no.	CSS mm/sm	se	d1	v1	v2	TL	ld./Al	kg/100	PU
293542	25	35	6,8	8	4	70	12	1,600	100
293544	35	50	8,0	10	4	85	14	2,700	100
293546	50	70	9,8	10	4	85	16	3,300	50
293548	70	95	11,2	12	6	105	18	5,800	50
293550	95	120	13,2	12	6	105	22	8,200	25
293552	120	150	14,7	12	6	105	22	7,900	25
293554	150	185	16,3	12	6	125	25	11,500	25
293556	185	240	18,3	12	6	125	28	12,300	20
293558	240	300	20,0	16	6	145	32	21,200	15

Al and Cu cable lugs, longitudinally sealed

- Material: Al 99,5% copper screw-on palm E-Cu 99,9% • Surface: bare
- With marking for correct crimping • Barrier design with oil stop
- For pre-rounded sector shaped conductors • For non-tension connections of Al-cables DIN 48201, part 1 and DIN EN 50182

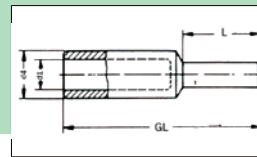


Al-Cu

Art. no.	CSS rm/sm	se	M	ld.	d2	d1	v1	v2	l	B	kg/100	PU
293300	25	35	8	12	10,5	6,8	4	2	61,0	23,0	2,600	50
293302			10	12	10,5	6,8	4	2	61,0	23,0	2,500	50
293304			12	12	13,0	6,8	4	2	61,0	23,0	2,900	50
293306	35	50	10	14	10,5	8,0	5	2	71,0	23,0	3,200	50
293308			12	14	13,0	8,0	5	2	71,0	23,0	3,500	50
293310	50	70	10	16	10,5	9,8	5	2	72,0	25,0	3,400	50
293312			12	16	13,0	9,8	5	2	72,0	25,0	4,100	50
293314	70	95	10	18	10,5	11,2	6	3	82,0	26,0	6,100	50
293316			12	18	13,0	11,2	6	3	82,0	26,0	5,500	50
293318	95	120	12	22	13,0	13,2	6	3	85,0	30,0	8,200	25
293320			16	22	17,0	13,2	6	3	85,0	30,0	8,500	25
293322	120	150	12	22	13,0	14,7	6	3	87,0	30,0	8,500	25
293324			16	22	17,0	14,7	6	3	87,0	30,0	8,700	25
293326	150	185	12	25	13,0	16,3	6	3	104,0	36,0	11,000	25
293328			16	25	17,0	16,3	6	3	104,0	36,0	11,200	25
293330	185	240	12	28	13,0	18,3	6	3	105,0	36,0	14,100	10
293332			16	28	17,0	18,3	6	3	105,0	36,0	14,300	10
293334	240	300	12	32	13,0	21,0	8	3	120,0	36,0	18,000	5
293336			20	32	17,0	21,0	8	3	120,0	36,0	29,000	5
293338	300	300	12	34	13,0	23,3	8	3	120,0	38,0	35,000	5

Al/Cu non-tension compression joints with Cu bolt

- Material: Al 99,5% E-Cu 99,9% • Surface: bare • Marking for correct crimping
- Barrier design with oil stop • For pre-rounded sector shaped conductors
- For non-tension connections of Al-cables DIN 48201, part 1 and DIN EN 50182 • For non-tension Al-connections in Cu clamps

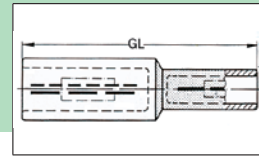


Al-Cu

Art. no.	CSS rm/sm	se	d1	d4	TL	l	Øbo.	Ørope	ld./Al	kg/100	PU
293960	25	35	6,8	12,0	58	20,0	6	6,3	12	1,600	1
293962	35	35	8,0	14,0	71	22,0	7	7,5	14	2,800	1
293964	50	50	10,0	16,0	74	25,0	8	9,0	16	3,800	1
293966	70	70	11,5	18,5	87	30,0	10	10,0	18	5,400	1
293968	95	120	13,2	23,0	91	33,0	12	12,5	22	10,600	1
293970	120	150	15,0	23,0	97	38,0	12	14,0	22	9,000	1
293972	150	185	16,5	25,5	108	38,0	12	15,8	25	10,900	1
293974	185	240	18,5	28,5	116	44,0	14	17,5	28	15,700	1
293976	240	300	21,5	32,5	128	44,0	16	20,3	32	17,000	1
293978	300	-	23,5	34,5	131	46,0	18	22,5	34	23,200	1

Al-Cu reducing connectors

- for connections with tension relief of Al/Cu conductors to DIN 28201
- Material: Al 99,5%, DIN 40501, E-Cu DIN 40500
- Surface: bare pickled



Al-Cu

Art. no.	CSS rm/sm	rm/sm CU	se	TL	Cu	Al	Id./Cu	Id./Al	kg/100	PU
293578	25	16	35	61	5,5	7,6	8	12	1,600	10
293582	35	16	50	71	5,5	8,0	8	14	2,100	10
293584		25		71	0,0	8	10	14	2,500	10
293598	50	25	70	71,5	7,0	9,8	10	16	3,100	10
293600		35		71,5	8,2	9,8	12	16	3,300	10
293606	70	25	95	79	7,0	11,2	10	18	4,400	10
293608		35		79	8,2	11,2	12	18	5,500	10
293610		50		85	10,0	11,2	14	18	5,700	10
293622	95	35	120	79	8,2	13,2	12	22	6,000	5
293624		50		85	10	13,2	14	22	8,900	5
293626		70		87	11,5	13,2	16	22	8,200	5
293634	120	50	150	87	10,0	14,7	14	22	7,900	5
293636		70		89	11,5	14,7	16	22	9,500	5
293638		95		97	13,5	14,7	18	22	10,000	5
293652	150	95	185	107,5	13,5	16,3	18	25	11,700	5
293654		120		107,5	15,5	16,3	20	25	14,200	5
293656		150		124,0	17,5	16,3	22	25	16,700	5
293664	185	120	240	108	15,5	18,3	20	28	16,930	5
293666		150		113	17,0	18,3	22	28	19,500	5
293678	240	150	300	124	17,0	21,0	22	32	23,300	5
293680		185		127	19,0	21,0	25	32	25,500	5
293688	300	185	400	128	18,5	19,0	25	34	32,700	5
293690		240		128	21,5	23,5	28	34	37,500	5

Cupul washer

- Compound material made from aluminium and copper



Art. no.	∅	s1	kg/100	PU
293810	10	1	11,100	50
293812	12	2	11,100	50
293814	14	2	11,100	50
293816	16	2	11,100	50

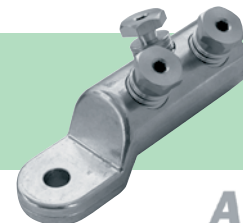
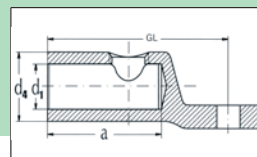
Screw terminals



Screw terminals 10 - 30 KV

AL screw terminals medium voltage 10-30 KV

- Material: AL 99,5%
- for tension relief connections of Al medium-voltage cables
- Tin-plated surface

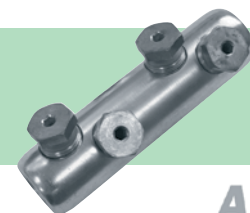
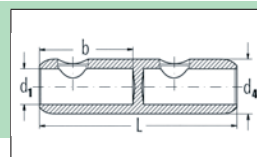


AI

Art. no.	CSS	M	d1	d4	A	TL	⊙	kg/100	PU
293140	16-95	12	12,5	24,0	32,0	60	1	6,400	1
293142	50-150	12	15,5	30,0	35,0	79	1	13,900	1
293144		16	15,5	30,0	35,0	79	1	14,500	1
293146	95-240	12	20,0	33,0	56,0	95	2	23,700	1
293148		16	20,0	33,0	56,0	95	2	24,400	1
293150	120-300	12	25,0	38,0	67,0	100	2	33,300	1
293152		16	25,0	38,0	67,0	100	2	32,700	1
293154	185-400	12	26,0	42,0	82,0	115	3	48,000	1
293156		16	26,0	42,0	82,0	115	3	48,200	1

AL screw connectors medium voltage 10-30 KV

- Material: AL 99,5%
- Screws: Tin-galvanised brass
- Tin-plated surface



AI

Art. no.	CSS	d1	d4	TL	⊙	kg/100	PU
293130	16-95	12,5	24,0	70	2	9,800	1
293132	50-150	15,5	30,0	85	2	17,700	1
293134	95-240	20,0	33,0	120	4	33,500	1
293136	120-300	25,0	38,0	142	4	49,000	1
293138	185-400	26,0	42,0	170	6	78,900	1

		CSS					
		AL			CU		
		rm	re	sm	rm	sm	⊙
Terminals	16 - 95	16.50/95		25 - 70	16 - 95	25 - 70	1
	50 - 150	50 - 150		50 - 120	35 - 120	50 - 120	1
	95 - 240	95 - 240		95 - 185	95 - 240	95 - 185	2
	120 - 300	120 - 300		120 - 240	120 - 300	120 - 240	2
	155 - 400	185 - 240/400		185 - 300	185 - 300	185 - 300	3
Connectors	16 - 95	16.50/95		25 - 70	16 - 95	25 - 70	2
	50 - 150	50 - 150		50 - 120	35 - 120	50 - 120	2
	95 - 240	95 - 240		95 - 185	95 - 240	95 - 185	4
	120 - 300	120 - 300		120 - 240	120 - 300	120 - 240	4
	155 - 400	185 - 240/400		185 - 300	185 - 300	185 - 300	6

Screw lugs and connectors

Screw connectors are a reliable and economic way of connecting identical or different conductor cross-sections.

They can be used up to 36kV. All lugs and connectors are fitted with torque-limited shear-off screws.

The actual cross-section of the cable does not need to be known, because each screw lug or connector covers many cable sizes. This results in simplified logistics, a small stock of lugs will cover a wide range of applications.

Also, the tin-plated surface means that they can be used on both copper and aluminium cables.

The principle of multiple tear-off screws

The screws of the Haupa screw lugs and connectors have a hexagon head and socket, which clamps the conductor cross-section with optimal clamping torque and therefore reduces assembly time.

As the screw is tightened it will shear off when correct torque is reached and a good joint is made.

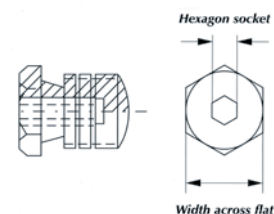
Advantages of the tear-off screw

- simple assembly
- the screw head shears off when clamping torque is right
- no torque key required
- screw can be detached using the hexagon socket

1. The screw is fitted with several tear-off spots, with different shear-off torque, a hexagon head and socket.

2. The tear-off torques are defined in such way that generally the biggest conductor cross-section is clamped with the biggest clamping torque and the smaller conductor cross-section with the smaller clamping torque. This happens by allocating hexagon head and socket.

3. Assembly is much simpler than with the telescopic screw, because each screw needs to be pulled and torn off only once.



Tubular cable lugs assortment standard

Content: 380 crimping terminals, crimping pliers (art. 210805), crimp standard 6 - 50 mm², hexagon crimping, in plastic bulk storage chest 420 x 350 x 60 mm.

- 50 crimping terminal, 6, M6, art. 290934
- 50 crimping terminal, 6, M8, art. 290936
- 50 crimping terminal, 10, M6, art. 290940
- 50 crimping terminal, 10, M8, art. 290942
- 30 crimping terminal, 16, M8, art. 290952
- 40 crimping terminal, 16, M10, art. 290954
- 25 crimping terminal, 25, M8, art. 290960
- 25 crimping terminal, 25, M10, art. 290962
- 20 crimping terminal, 35, M8, art. 290968
- 20 crimping terminal, 35, M10, art. 290970
- 20 crimping terminal, 50, M8, art. 290978



Art. no.	Content	kg	PU
290380	380	6,000	1

Assortment of tubular terminals, standard

Content: 1.200 crimping terminals, crimping pliers (art. 210830), crimp DIN 0,75-16 mm², mandrel shape crimping, in plastic bulk storage chest 420 x 350 x 60 mm:

- 100 crimping terminal, 4, M5, art. 290924
- 100 crimping terminal, 4, M6, art. 290926
- 100 crimping terminal, 6, M6, art. 290934
- 100 crimping terminal, 10, M8, art. 290942
- 100 crimping terminal, 10, M10, art. 290944
- 50 crimping terminal, 16, M8, art. 290952
- 50 crimping terminal, 16, M10, art. 290954
- 100 crimping terminal, 2,5, M6, art. 290918
- 100 crimping terminal, 2,5, M5, art. 290916
- 100 crimping terminal, 1,5, M5, art. 290908
- 100 crimping terminal, 1,5, M4, art. 290906
- 100 crimping terminal, 0,75, M4, art. 290902
- 100 crimping terminal, 0,75, M3, art. 290900



Art. no.	Content	kg	PU
290381	1200	6,000	1

Tubular cable lugs assortment DIN 46235

Content: 380 crimping terminals crimping pliers (art. 210805K), crimp DIN 6 - 50 mm², hexagon crimping, in plastic bulk storage chest 420 x 350 x 60 mm.

- 50 Crimping terminal DIN 46235, 6, M6, art. 290404
- 50 Crimping terminal DIN 46235, 6, M8, art. 290406
- 50 Crimping terminal DIN 46235, 10, M6, art. 290410
- 50 Crimping terminal DIN 46235, 10, M8, art. 290412
- 30 Crimping terminal DIN 46235, 16, M8, art. 290418
- 40 Crimping terminal DIN 46235, 16, M10, art. 290420
- 25 Crimping terminal DIN 46235, 25, M8, art. 290426
- 25 Crimping terminal DIN 46235, 25, M10, art. 290428
- 20 Crimping terminal DIN 46235, 35, M8, art. 290434
- 20 Crimping terminal DIN 46235, 35, M10, art. 290436
- 20 Crimping terminal DIN 46235, 50, M8, art. 290440



Art. no.	Content	kg	PU
290382	380	6,600	1

Assortment of ring terminals, uninsulated

Content: 1.400 crimping terminals, crimping pliers (art. 210774), crimp DIN 1,0-16 mm², mandrel shape crimping, in plastic bulk storage chest 420 x 350 x 60 mm

- 100 insulated ring terminals DIN, 16, M10, art. 290670
- 100 insulated ring terminals DIN, 16, M8, art. 290668
- 100 insulated ring terminals DIN, 16, M6, art. 290666
- 100 insulated ring terminals DIN, 10, M10, art. 290662
- 100 insulated ring terminals DIN, 10, M8, art. 290660
- 100 insulated ring terminals DIN, 10, M6, art. 290658
- 100 insulated crimp terminals type ring 2,5-6, M8, art. 290642
- 100 insulated ring terminals DIN, 6, M6, art. 290648
- 100 insulated crimp terminals type ring, 2,5-6, M5, art. 290638
- 100 insulated crimp terminals type ring, 1,5-2,5, M6, art. 290632
- 100 insulated crimp terminals type ring, 1,5-2,5, M5, art. 290630
- 100 insulated crimp terminals type ring, 1,5-2,5, M4, 290628
- 100 insulated crimp terminals type ring, 0,25-1,5, M5, 290624
- 100 insulated crimp terminals type ring, 0,25-1,5, M4, 290622



Art. no.	Content	kg	PU
290386	1400	6,000	1

Assortment of ring terminals, uninsulated

Content: 900 crimping terminals, crimping pliers (art. 210764), crimp DIN 1,0-10 mm², mandrel shape crimping, in plastic bulk storage chest 420 x 350 x 60 mm.

- 100 insulated crimp terminals type ring, 0,25-1,5, M4, art. 290622
- 100 insulated crimp terminals type ring, 0,25-1,5, M5, art. 290624
- 100 insulated crimp terminals type ring, 1,5-2,5, M4, art. 290628
- 100 insulated crimp terminals type ring, 1,5-2,5, M5, art. 290630
- 100 insulated crimp terminals type ring, 1,5-2,5, M6, art. 290632
- 100 insulated crimp terminals type ring, 2,5-6, M5, art. 290638
- 100 insulated ring terminals DIN, 6, M6, art. 290648
- 100 insulated ring terminals DIN, 10, M6, art. 290658
- 100 insulated ring terminals DIN, 10, M8, art. 290660



Art. no.	Content	kg	PU
290387	900	6,000	1

Assortment of tubular terminals, light

Content: 1.100 crimping terminals, crimping pliers (art. 210830), crimp DIN 0,75-16 mm², mandrel shape crimping, in plastic bulk storage chest 420 x 350 x 60 mm

- 100 Tube terminals, light, 10, M10, art. 294040
- 100 Tube terminals, light, 16, M8, art. 294048
- 100 Tube terminals, light, 10, M6, art. 294036
- 100 Tube terminals, light, 6, M5, art. 294024
- 100 Tube terminals, light, 6, M6, art. 294026
- 100 Tube terminals, light, 16, M10, art. 294050
- 100 Tube terminals, light, 2,5, M4, art. 294006
- 100 Tube terminals, light, 1,5, M4, art. 294000
- 100 Tube terminals, light, 2,5, M6, art. 294010
- 100 Tube terminals, light, 1,5, M5, art. 294002
- 100 Tube terminals, light, 2,5, M5, art. 294008



Art. no.	Content	kg	PU
294240	1100	6,000	1

Assortment of ring terminals, insulated

Content: 1.400 crimping terminals, crimping pliers (art. no. 210830), crimp DIN 0,75-16 mm², mandrel shape crimping, in plastic bulk storage chest 420 x 350 x 60 mm.

- 100 insulated ring terminals DIN, 16, M10, art. 290670
- 100 insulated ring terminals DIN, 16, M8, art. 290668
- 100 insulated ring terminals DIN, 16, M6, art. 290666
- 100 insulated ring terminals DIN, 10, M10, art. 290662
- 100 insulated ring terminals DIN, 10, M8, art. 290660
- 100 insulated ring terminals DIN, 10, M6, art. 290658
- 100 insulated crimp terminals type ring, 2,5-6 M8, art. 290642
- 100 insulated ring terminals DIN, 46234 6, M6, art. 290648
- 100 insulated crimp terminals type ring, 2,5-6, M5, art. 290638
- 100 insulated crimp terminals type ring, 1,5-2,5, M6, art. 290632
- 100 insulated crimp terminals type ring, 1,5-2,5, M5, art. 290630
- 100 insulated crimp terminals type ring, 1,5-2,5, M4, art. 290628
- 100 insulated crimp terminals type ring, 0,25-1,5, M5, art. 290624
- 100 insulated crimp terminals type ring 0,25-1,5 M4, art. 290622



Art. no.	Content	kg	PU
290385	1400	6,000	1

SysCon cable lugs DIN & 210805 K

Content: 380 cable lugs DIN 46235, tinned

- 1 220370 ABS plastic box „SysCon S”
- 2 220376 Foam „SysCon” 400 x 300 x 15 mm
- 1 500270 Foam for sets 160 x 400 mm
- 1 210805 K Crimping pliers hexagonal crimping 6 - 50 mm²

50	290404	Cable lugs DIN	6	M6
50	290406	Cable lugs DIN	6	M8
50	290410	Cable lugs DIN	10	M6
50	290412	Cable lugs DIN	10	M8
30	290418	Cable lugs DIN	16	M8
40	290420	Cable lugs DIN	16	M10
25	290426	Cable lugs DIN	25	M8
25	290428	Cable lugs DIN	25	M10
20	290434	Cable lugs DIN	35	M8
20	290436	Cable lugs DIN	35	M10
20	290440	Cable lugs DIN	50	M8



Art. no.		kg	PU
220385	DIN	4,300	1

SysCon cable lugs standard & 210805

Content: 380 cable lugse standard, tinned

- 1 220370 ABS plastic box „SysCon S”
- 2 220376 Foam „SysCon” 400 x 300 x 15 mm
- 1 500270 Foam for sets 160 x 400 mm
- 1 210805 Crimping plier hexagonal crimping 6 - 50 mm²

50	290934	Cable lugs standard	6	M6
50	290936	Cable lugs standard	6	M8
50	290940	Cable lugs standard	10	M6
50	290942	Cable lugs standard	10	M8
30	290952	Cable lugs standard	16	M8
40	290954	Cable lugs standard	16	M10
25	290960	Cable lugs standard	25	M8
25	290962	Cable lugs standard	25	M10
20	290968	Cable lugs standard	35	M8
20	290970	Cable lugs standard	35	M10
20	290978	Cable lugs standard	50	M8



Art. no.		kg	PU
220386	standard	4,300	1

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SysCon cable lugs DIN 46235

Content: 389 cable lugs DIN, tinned

1	220370	ABS plastic box „SysCon S”		
2	220376	Foam „SysCon” 400 x 300 x 15 mm		
100	290404	Cable lugs DIN	6	M6
100	290412	Cable lugs DIN	10	M8
50	290418	Cable lugs DIN	16	M8
50	290426	Cable lugs DIN	25	M8
25	290434	Cable lugs DIN	35	M8
18	290442	Cable lugs DIN	50	M10
12	290450	Cable lugs DIN	70	M10
10	290458	Cable lugs DIN	95	M12
12	290464	Cable lugs DIN	120	M12
4	290472	Cable lugs DIN	150	M12
4	290480	Cable lugs DIN	185	M12
4	290486	Cable lugs DIN	240	M12



Art. no.		kg	PU
220387	DIN	4,300	1

SysCon cable lugs standard

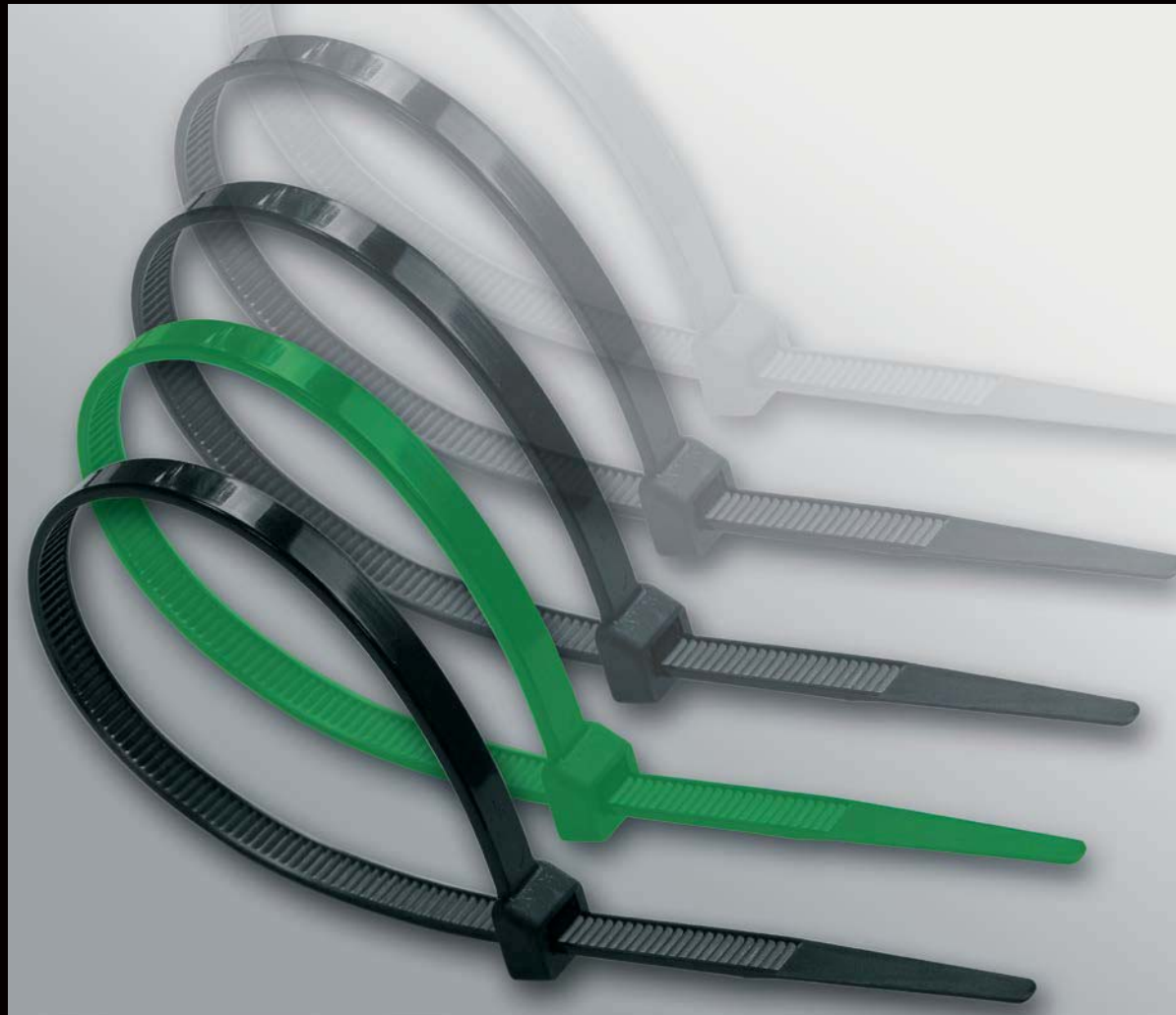
Content: 389 cable lugs standard

1	220370	ABS plastic box „SysCon S”		
2	220376	Foam „SysCon” 400 x 300 x 15 mm		
100	290934	Cable lugs standard	6	M6
100	290942	Cable lugs standard	10	M8
50	290952	Cable lugs standard	16	M8
50	290960	Cable lugs standard	25	M8
25	290968	Cable lugs standard	35	M8
18	290980	Cable lugs standard	50	M10
12	290988	Cable lugs standard	70	M10
10	290998	Cable lugs standard	95	M12
12	290008	Cable lugs standard	120	M12
4	290016	Cable lugs standard	150	M12
4	290022	Cable lugs standard	185	M12
4	290028	Cable lugs standard	240	M12



Art. no.		kg	PU
220388	standard	4,300	1

Cable ties, accessories



Product line cable ties

HAUPA cable ties are characterised by their tightness, high tensile strength of the loop and extreme flexibility of the cord. As a result of these characteristics, HAUPA cable ties are able to cope with even the most extreme installation practices, which conventional cable ties would not be able to cope with. All HAUPA cable ties conform to WEEE/RoHS guidelines.

The cable ties product range includes:

- **cable ties**
colour: natural/black
- **cable ties**
colour: black (UV-resistant)
- **releasable ties**
colour: black
- **double-locking cable ties**
colour: black
- **cable ties with fixing eye**
colour: natural
- **cable ties with label**
colour: natural
- **hook and loop ties**
colour: black, green

Accessories:

- **adhesive base, screw base, plug mount base**

Ideal storage conditions for cable ties made from nylon

Cable ties are made from high-quality nylon. This technical plastic is usually processed through injection moulding, but it can also be extruded. Nylon is a hygroscopic plastic that absorbs water and can release it. In order to process the ties optimally, it is important that the material is in a balanced state with a water content of approx. 2.5%. The original HAUPA cable tie packaging provides constant water content in the material.

The cable ties should be stored as follows:



Storage in a closed plastic bag made from polyethylene



No direct sunlight



Storage without direct exposure to heat (radiator etc.)



Ideal storage temperature (standard Central European climatic conditions) up to 23° with 50% humidity

INFO

Cable ties

All HAUPA cable ties are made from plastic and are recyclable. The internal toothing of the ties gives you the necessary strength to tie the material. The cable ties can be simply used by hand or with a HAUPA cable tie tool. The slightly bent end allows the tie to be inserted into the head easily.

Use: For bundling and fastening cables, wires and tubes. NH (non-halogen) - RoHS conform

Cable ties

material: nylon, colour natural, quick and simple to fix by hand or with tensioning tools, extremely resistant to sea water, oil, grease, etc., manufactured in accordance with UL and MIL specification requirements, - 40° C bis 85° C, UL E 341152



Art. no.	TL	width	mm	mm	kg/100	PU	PE	
262500/1	75	2,4	15	5	0,035	100	100	30.000
262500	96	2,5	23	8	0,028	100	100	30.000
262502	100	2,5	25	8	0,030	100	100	25.000
262504	142	2,5	35	8	0,044	100	100	25.000
262506	203	2,5	55	8	0,065	100	100	13.000
262508	142	3,2	35	18	0,083	100	100	10.000
262509/1	203	3,6	53	18	0,100	100	100	10.000
262510/1	250	3,6	68	18	0,150	100	100	6.000
262510	292	3,6	85	18	0,155	100	100	7.000
262516	199	4,6	54	22	0,145	100	100	7.000
262512/1	120	4,8	52	22	0,080	100	100	10.000
262515	157	4,8	40	22	0,040	100	100	6.000
262512	188	4,8	54	22	0,143	100	100	8.000
262518	250	4,8	74	22	0,203	100	100	6.000
262520	302	4,8	84	22	0,220	100	100	5.000
262522	368	4,8	102	22	0,274	100	100	4.000
262523	430	4,8	125	22	0,290	100	100	4.000
262535	774	7,5	220	80	1,050	50	100	500
262528	200	7,6	54	55	0,300	100	100	2.000
262530	290	7,6	82	55	0,400	100	100	2.000
262532	370	7,6	106	55	0,540	100	100	2.500
262536	425	8,0	115	80	0,760	50	100	500
262537	523	8,0	150	80	0,105	50	100	500
262538	610	9,0	180	80	1,270	50	100	500
262540	800	9,0	235	80	1,600	20	100	500
262542	920	9,0	278	80	0,860	50	100	500
262543	1220	9,0	374	80	1,100	20	100	500
262545	246	12,7	64	114	0,860	50	100	500
262546	550	12,7	166	114	1,770	50	100	500
262547	1030	12,7	312	114	3,200	20	100	500

Cable ties

material: nylon - colour black, all other data and properties like No. 262500 - 46, weather- and UV-resistant, UL E 341152



Art. no.	TL	width	Ø	□	kg/100	PU	PE	
262600/1	75	2,4	15	8	0,035	100	100	30.000
262600	96	2,5	23	8	0,040	100	100	30.000
262602	100	2,5	25	8	0,040	100	100	25.000
262604	142	2,5	35	8	0,040	100	100	20.000
262606	203	2,5	55	8	0,080	100	100	10.000
262608	142	3,2	35	18	0,080	100	100	10.000
262609/1	203	3,6	53	18	0,100	100	100	10.000
262610/1	250	3,6	68	18	0,150	100	100	6.000
262610	292	3,6	85	18	0,160	100	100	7.000
262616	203	4,6	52	22	0,150	100	100	6.000
262612/1	120	4,8	27	22	0,080	100	100	10.000
262615	157	4,8	40	22	0,100	100	100	6.000
262618	250	4,8	74	22	0,200	100	100	6.000
262620	302	4,8	84	22	0,240	100	100	5.000
262622	368	4,8	102	22	0,270	100	100	4.000
262623	430	4,8	125	22	0,290	100	100	4.000
262635	774	7,5	220	55	1,050	50	100	500
262628	200	7,6	54	55	0,300	100	100	2.000
262630	290	7,6	82	55	0,400	100	100	2.000
262632	370	7,6	106	55	0,540	100	100	2.500
262636	425	8,0	115	80	0,880	50	100	500
262637	523	8,0	150	80	1,050	50	100	500
262638	610	9,0	180	80	1,280	50	100	500
262640	800	9,0	235	80	1,600	20	100	500
262642	920	9,0	278	80	0,880	50	100	500
262643	1220	9,0	374	80	1,100	20	100	500
262645	246	12,7	64	114	0,860	50	100	500
262646	550	12,7	166	114	1,600	50	100	500
262647	1030	12,7	312	114	3,200	20	100	500

Cable ties "UVplus"

Long-term weather resistant, for industrial uses, black, UV resistant, material - polyamide, 7 year guarantee



Art. no.	TL	width	Ø	□	kg/100	PU	PE
262950	100	2,5	25	8	0,030	100	100
262952	202	2,5	50	8	0,070	100	100
262954	150	3,3	38	18	0,070	100	100
262956	201	3,6	57	18	0,150	100	100
262958	290	3,6	82	18	0,160	100	100
262960	199	4,8	56	22	0,150	100	100
262962	250	4,8	72	22	0,200	100	100
262964	290	4,8	83	22	0,220	100	100
262966	371	4,8	129	22	0,270	100	100
262968	290	7,6	82	54	0,410	100	100
262970	370	7,6	108	54	0,550	100	100
262972	542	7,6	162	54	0,750	100	100
262974	523	8,8	156	79	1,000	50	100
262976	709	8,8	213	79	1,000	50	100
262978	774	8,8	233	79	1,000	50	100
262980	920	8,8	279	79	1,000	50	100

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, UL E 341152



Art. no.	TL	width	Ø	□	kg/100	PU	PE
262100	100	2,5	23	8	0,031	100	100
262101	203	3,6	55	18	0,131	100	100
262102	142	3,2	35	18	0,074	100	100
262106	203	4,6	55	22	0,150	100	100
262108	310	4,8	89	22	0,228	100	100
262110	368	4,8	102	22	0,227	100	100
262114	380	7,6	110	55	0,560	50	100
262116	550	12,7	166	114	1,600	50	100

Cable ties

material: polyamide 6,6 - colour black, all other data and properties like No. 26 21 00 - 16, resistant to sea water, oil, grease, etc., not UV-resistant, UL E 341152



Art. no.	TL	width	Ø	□	kg/100	PU	PE
262120	100	2,5	25	8	0,003	100	100
262122	142	3,2	35	18	0,065	100	100
262124	203	3,6	55	18	0,116	100	100
262126	203	4,8	55	22	0,145	100	100
262128	310	4,8	89	22	0,248	100	100
262130	368	4,8	102	22	0,269	100	100
262132	280	7,6	78	55	0,397	100	100
262134	380	7,6	110	55	0,580	50	100
262136	550	12,7	166	114	1,600	50	100

Cable ties

material: nylon - colour natural, all other data and properties like No. 262500 - 46, big packing unit 1000 pcs., UL E 341152



Art. no.	TL	width	Ø	□	kg/100	PU	PE
262501	96	2,5	23	8	0,028	1000	100
262503	100	2,5	25	8	0,026	1000	100
262505	142	2,5	35	8	0,0310	1000	100
262507	203	2,5	55	8	0,065	1000	100
262509	142	3,2	35	18	0,070	1000	100
262511	292	3,6	85	18	0,158	1000	100
262513	190	4,8	52	22	0,140	1000	100
262517	203	4,6	55	22	0,140	1000	100

Releasable cable ties for frequent opening and closing

for temporary wiring and sub-assembly, material: polyamide 6,6 - colour black, operation temperature: -40° to +85° C, UL E 341152



Art. no.	TL	width	Ø	kg	kg/100	PU	PE
262140	150	7,6	35	22	0,201	100	100
262142	200	7,6	50	22	0,249	100	100
262144	300	7,6	80	22	0,349	100	100

Double-locking-cable ties

material: nylon - colour black, (262710 Nylon 12).

Benefits:

- Flat head geometry
- Exterior
- Smooth side is up against the insulation - no dents or damages
- Wide contact surface protects the cable loom from damages

Application:

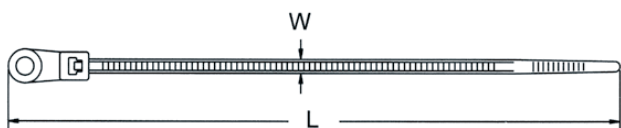
- Bundling of tubes in narrow shafts
- Cable bundling in hollow wall spaces
- Pull-out forces are well distributed thanks to the extra-wide tie



Art. no.	TL	width	Ø	kg	kg/100	PU	PE
262700	180	9,0	45	55	0,319	100	100
262702	300	9,0	88	55	0,512	100	100
262704	360	9,0	100	55	0,629	100	100
262710	300	9,0	88	55	0,463	100	100

Cable ties with fixing eye

material: nylon, colour natural, quick and simple to fix by hand or with tensioning tools, extremely resistant to sea water, oil, grease, etc., manufactured in accordance with UL and MIL specification requirements, - 40° C bis 85° C

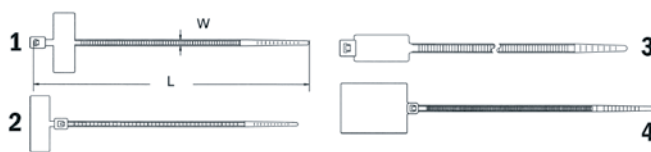


Art. no.	TL	width	Ø	kg	kg/100	PU	PE
262820	100	2,5	3,0	25	8	0,044	100
262822	170	3,7	4,8	40	18	0,100	100
262824	170	3,7	4,0	40	18	0,105	100
262826	205	4,2	4,6	60	22	0,133	100
262828	300	4,8	4,8	85	22	0,224	100
262830	300	7,8	6,0	80	55	0,443	100
262832	370	4,8	4,9	102	22	0,276	100
262834	398	7,9	6,1	122	55	0,595	100

Cable ties with marking space

These cable ties are suitable for simple labelling and simultaneous bundling of cable loops. This saves one work step. Material: nylon, colour natural, can be fastened quickly and easily using a tool or by hand. Extremely resistant to sea water, oil, fats etc, manufactured according to UL gema tested nylon.

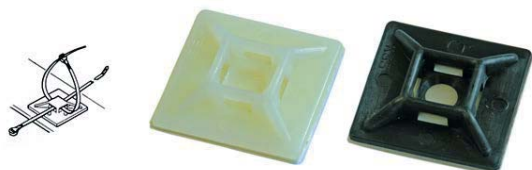
Technical data: material polyamide 6.6 (N66), operating temperature -40 to +85 C. Group features: HF (non-halogen), RoHS-conform



Art. no.	TL	width	label	Ø	kg	kg/100	PU	PE
262840	1	100	2,5	25 x 8	25	8	0,049	100
262842	4	130	2,5	28 x 20	25	8	0,093	100
262844	2	110	2,5	25 x 8	25	8	0,058	100
262846	3	200	4,6	28 x 13	50	22	0,147	100
262848	1	200	2,5	30 x 15	50	8	0,128	100
262850	3	270	4,6	28 x 13	75	22	0,198	100

Self adhesive sockets

For fast and safe fixture of cable bundles and other objects. Cable tie can be fed from 4 directions. May also be secure with a screw



Art. no.	TL		width	kg/100	PU	PE
262160	19	natural	3,6	19	0,078	100
262161	19	black	3,6	19	0,075	100
262162	28	natural	4,8	28	0,178	100
262163	28	black	4,8	28	0,190	100

Screw type sockets

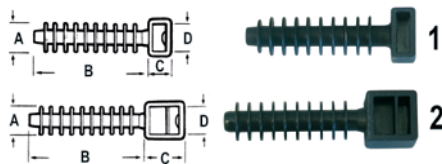
for cable ties and a quick and reliable fastening of large diam. Cable bundles and other objects, not UV-resistant



Art. no.	TL		width	TU0	PU	PE
262164	1,5	natural	7,8	1	1,51	100
262165	1,5	black	7,8	1	1,56	100

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.	TL		width	C	D	PU	PE
262170	37	9	10	1	6,5	9,2	100
262172	37	9	10	2	6,5	9,2	100

Hook-and-loop cable ties

made from extruded polyamide-velour laminate, thickness approx. 1.4 mm, selfadhesive back to back, suitable for approx. 200 uses. Colours: black and green Hook-and-loop cable ties with loop, cut to binder measurements for all standard electrical installations



pieces

Art. no.	TL		width	kg/100	PU	PE
262750	125	black	12	0,220	20	100
262752	135	black	12	0,240	20	100
262754	180	black	12	0,300	20	100
262756	210	black	16	0,420	20	100
262758	310	black	16	0,560	20	100
262760	125	green	12	0,220	20	100
262762	135	green	12	0,230	20	100
262764	180	green	12	0,300	20	100
262766	210	green	16	0,430	20	100
262768	310	green	16	0,610	20	100

coil



Art. no.	TL	width	kg/100	PU	PE
262782	10000	20	10,000	1	1

Polyethene spiral binding

natural, non-flame resistant



Art. no.	TL	∅	g	kg	PU
262060	30	1,5	10	0,141	1
262062	30	4	25	0,390	1
262064	30	9	32	0,780	1

Polyethene spiral binding

white, nearly flame resistant



Art. no.	TL	∅	g	kg	PU
262066	30	1,5	10	0,156	1
262068	30	4	25	0,497	1
262069	30	9	32	0,964	1

Tensioning tools for cable ties

Prevents overstretching and constriction by continuously adjustable stress limitation. The built-in knife will cut only, when the requested tension has been reached



Art. no.	width	material	kg	PU
262151	2,5-5	plastic	0,240	1

Tensioning tools for cable ties

Prevents overstretching and constriction by continuously adjustable stress limitation. The built-in knife will cut only, when the requested tension has been reached



Art. no.	width	material	kg	PU
262152	2,5-5	metal	0,334	1

Tensioning tools for cable ties

Prevents overstretching and constriction by continuously adjustable stress limitation. The built-in knife will cut only, when the requested tension has been reached



Art. no.	width	material	kg	PU
262154	2,5-13	metal	0,365	1

Tensioning tools for cable ties

Prevents overstretching and constriction by continuously adjustable stress limitation. The built-in knife will cut only, when the requested tension has been reached



Art. no.	width	material	kg	PU
262158	2,5-10	metal	0,303	1



Steel cable ties, accessories



Steel cable ties, SS 316 (V4A) with ball closure

made from stainless steel 316 (DIN 1.4401), corrosion and radiation resistant, non-magnetic, extremely resistant to high temperatures (steel -80 °C to +538 °C) and aggressive chemicals, steel thickness 0.3 mm.

For use in machinery, vehicles, signalling, shipping and mining, in the food and chemical industries, in power plants, underground systems, on drilling platforms, wind-power generation plants and telecommunications, radio technology, stage construction, trade fair construction.



Art. no.	TL	width	h	□	kg/100	PU	PE
262940/125	125	4,5	22	45	0,400	100	100
262940/152	152	4,5	25	45	0,230	100	100
262940/200	200	4,5	50	45	0,280	100	100
262940/250	250	4,5	65	45	0,330	100	100
262940/300	300	4,5	75	45	0,420	100	100
262940/360	360	4,5	102	45	0,450	100	100
262940/520	520	4,5	152	45	0,660	25	100
262950/152	152	8,0	25	113	0,480	100	100
262950/200	200	8,0	50	113	0,680	100	100
262950/300	300	8,0	75	113	0,750	100	100
262950/360	360	8,0	102	113	0,920	100	100
262950/520	520	8,0	152	113	1,280	25	100
262950/680	680	8,0	203	113	1,550	25	100
262950/840	840	8,0	254	113	1,840	25	100
262950/1050	1050	8,0	318	113	2,560	25	100
262960/290	290	12,0	80	272	1,500	100	100
262960/360	360	12,0	102	272	1,700	100	100
262960/520	520	12,0	152	272	2,800	25	100
262960/680	680	12,0	203	272	3,300	25	100
262960/840	840	12,0	254	272	4,500	25	100
262960/1000	1000	12,0	302	272	5,000	25	100
262960/1200	1200	12,0	351	272	5,500	25	100

Steel cable ties, SS 316 (V4A) with ratchet function

made from stainless steel 316 (DIN 1.4401), corrosion and radiation resistant, non-magnetic, extremely resistant to high temperatures (steel -80 °C to +538 °C) and aggressive chemicals, steel thickness 0.3 mm; installation without additional tools.

For use in machinery, vehicles, signalling, shipping and mining, in the food and chemical industries, in power plants, underground systems, on drilling platforms, wind-power generation plants and telecommunications.



Art. no.	TL	width	h	kg/100	PU	PE
262970/1100	1100	10,0	330	5,500	10	100
262970/1315	1315	10,0	380	6,000	10	100

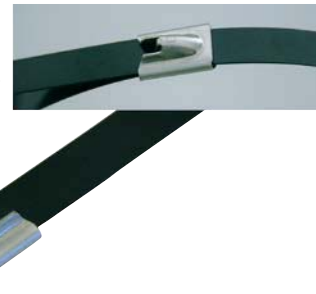
Steel cable ties, SS 316 (V4A) with ball closure

with cable protection sleeve made of epoxy resin polyester, free from halogen, black made from stainless steel 316 (DIN 1.4401), corrosion and radiation resistant, non-magnetic, extremely resistant to high temperatures (steel -80 °C to +538 °C) and aggressive chemicals, steel thickness 0.3 mm.

For use in machinery, vehicles, signalling, shipping and mining, in the food and chemical industries, in power plants, underground systems, on drilling platforms, wind-power generation plants and telecommunications, radio technology, stage construction, trade fair construction.

Benefits:

- Soft edges
- Easy installation comfort and handling
- Fully coated to prevent contact corrosion
- Gentle fixture



Art. no.	TL	width	h	□	kg/100	PU	PE
262942/125	125	4,5	22	45	0,190	100	100
262942/152	152	4,5	25	45	0,230	100	100
262942/200	200	4,5	50	45	0,280	100	100
262942/250	250	4,5	60	45	0,330	100	100
262942/300	300	4,5	75	45	0,420	100	100
262942/360	360	4,5	102	45	0,450	100	100
262942/520	520	4,5	152	45	0,660	25	100
262952/152	152	8,0	25	113	0,480	100	100
262952/200	200	8,0	50	113	0,680	100	100
262952/300	300	8,0	75	113	0,750	100	100
262952/360	360	8,0	102	113	0,920	100	100
262952/520	520	8,0	152	113	1,280	25	100
262952/680	680	8,0	203	113	1,550	25	100
262952/840	840	8,0	254	113	1,840	25	100
262952/1050	1050	8,0	318	113	2,560	25	100
262962/290	290	12,0	80	272	1,500	100	100
262962/360	360	12,0	102	272	1,700	100	100
262962/520	520	12,0	152	272	2,800	25	100
262962/680	680	12,0	203	272	3,300	25	100
262962/840	840	12,0	254	272	4,500	25	100
262962/1000	1000	12,0	302	272	5,000	25	100
262962/1200	1200	12,0	351	272	5,500	25	100

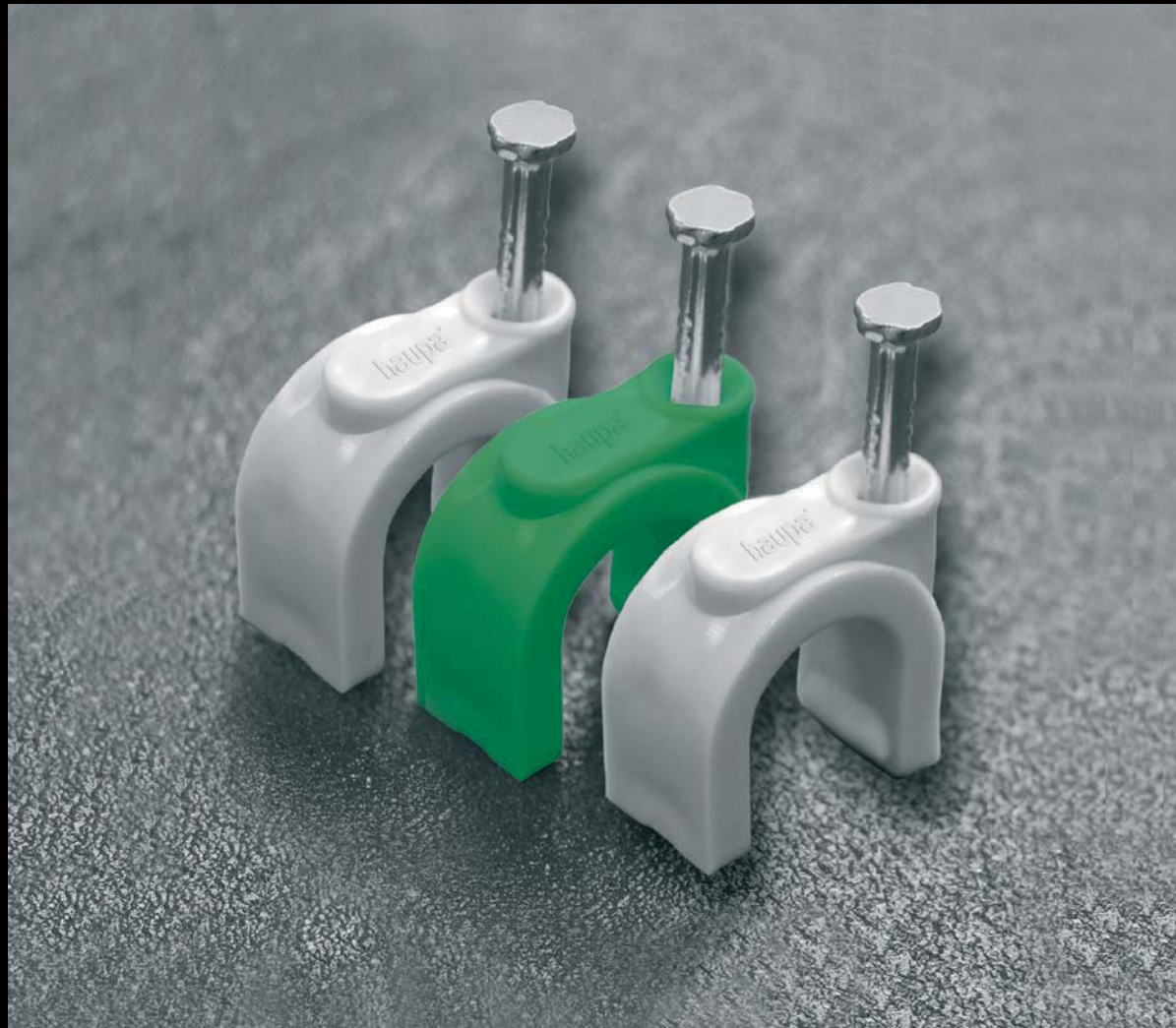
Tensioning tools for steel cable ties

Prevents overstretching and constriction by continuously adjustable stress limitation. The built-in knife will cut only, when the requested tension has been reached



Art. no.	material	kg	PU
262159	metal	0,560	1

Nailing clips



INFO

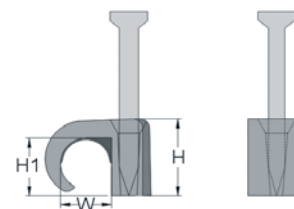
Nailing clips

Material: hammer-proof polyethylene (PE), halogen-free
 Temperature resistant: - 40 °C to + 80 °C, and for short periods up to approximately 100 °C



Nailing clips for round cable

for attaching and fixing electrical cables, optimum claw shape for secure fixing of the cable, can be fixed to the cable, version with inserted galvanised nail, material: hammer-proof polyethylene (PE), halogen-free, temperature resistant: - 40 °C to + 80 °C, and for short periods up to approximately 100 °C.



Art. no.	colour	∅	H	H1	W	NL	N-∅	kg/100	PU
262200	transparent	2-3	4,3	2,8	2,8	19	1,65	0,032	100
262202	transparent	3-5	5,6	3,7	2,9	15	2,0	0,038	100
262204	pure white	3-5	5,6	3,7	2,9	15	2,0	0,038	100
262206	black	5-7	8,0	6,0	5,3	20	2,0	0,100	100
262208	transparent	5-7	8,0	6,0	5,3	20	2,0	0,100	100
262209	light-grey	5-7	8,0	6,0	5,3	35	2,0	0,100	100
262210	pure white	5-7	8,0	6,0	5,3	20	2,0	0,102	100
262212	black	7-10	9,5	7,1	6,8	25	2,0	0,093	100
262214	brown	7-10	9,5	7,1	6,8	25	2,0	0,092	100
262215	brown	7-10	9,5	7,1	6,8	35	2,0	0,092	100
262216	red	7-10	9,5	7,1	6,8	25	2,0	0,093	100
262218	pure white	7-10	9,5	7,1	6,8	25	2,0	0,092	100
262220	black	10-14	13,0	10,3	9,4	35	2,0	0,166	100
262222	pure white	10-14	13,0	10,3	9,4	35	2,0	0,162	100
262223	light-grey	10-14	13,0	10,3	9,4	44	2,0	0,162	100
262224	black	14-20	17,1	13,7	13,1	40	2,5	0,136	50
262226	pure white	14-20	17,1	13,7	13,1	40	2,5	0,138	50
262227	light-grey	14-20	17,1	13,7	13,1	44	2,5	0,138	50
262228	black	18-22	19,5	17,0	16,4	38	3,2	0,402	50
262230	pure white	18-22	19,5	17,0	16,4	38	3,2	0,396	50
262232	black	22-26	21,0	19,5	24,0	38	3,2	0,464	50
262234	pure white	22-26	21,0	19,5	24,0	38	3,2	0,458	50
262235	light-grey	22-26	21,0	19,5	24,0	38	3,2	0,458	50

Nailing clips for flat cable

for attaching and fixing electrical cables, optimum claw shape for secure fixing of the cable, can be fixed to the cable, version with inserted galvanised nail, material: hammer-proof polyethylene (PE), halogen-free, temperature resistant: - 40 °C to + 80 °C, and for short periods up to approximately 100 °C.

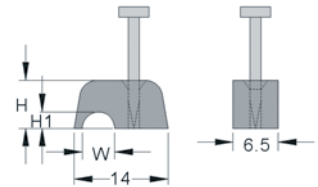


Art. no.	colour	∅	H	H1	W	NL	N-∅	kg/100	PU
262236	transparent	2-4	4,0	2,0	4,0	15	2,0	0,032	100
262238	transparent	3-5	5,2	3,3	4,6	15	2,0	0,038	100
262240	transparent	4-6	5,9	3,8	5,8	15	2,0	0,047	100
262242	light grey	5-8	7,5	4,9	7,9	25	2,0	0,107	100
262243	pure white	5-8	7,5	4,9	7,9	25	2,0	0,103	100
262244	light grey	6-10	8,2	5,8	9,8	25	2,0	0,120	100
262245	pure white	6-10	8,2	5,8	9,8	25	2,0	0,120	100
262246	light grey	7-14	9,3	6,5	11,8	25	2,0	0,176	100
262247	pure white	7-14	9,3	6,5	11,8	25	2,0	0,174	100
262248	light grey	9-18	12,2	9,4	16,7	22	2,5	0,237	100
262249	pure white	9-18	12,2	9,4	16,7	22	2,5	0,236	100

- NL = nail length
- N-∅ = nail diameter
- H = height
- H1 = height 1
- W = width (opening)

Nailing clips for round cable

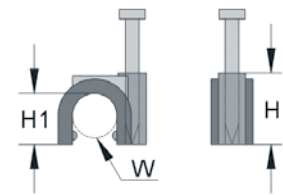
for attaching and fixing electrical cables, version with inserted galvanised nail, material: hammer-proof polyethylene (PE), halogen-free, temperature resistant: - 40 °C to + 80 °C, and for short periods up to approximately 100 °C.



Art. no.	colour	∅	W	NL	N-∅	kg/100	PU
262254	light grey	4,1	4,1	15	2,0	0,083	100
262256	light grey	4,1	4,1	20	2,0	0,089	100
262258	light grey	7,0	7,0	20	2,0	0,103	100
262260	light grey	9,0	9,0	20	2,0	0,178	100
262262	light grey	13,2	13,2	20	2,0	0,225	100

ISO nailing clips

for attaching and fixing electrical cables, can be fixed to the cable, version with inserted galvanised nail, material: hammer-proof polyethylene (PE), halogen-free, temperature resistant: - 40 °C to + 80 °C, and for short periods up to approximately 100 °C.



Art. no.	colour	∅	H	H1	W	NL	N-∅	kg/100	PU
262264	light grey	2,75	4,5	2,6	2,75	20	2,0	0,083	100
262266	light grey	6,0	9,0	6,6	6,0	20	2,0	0,100	100
262268	light grey	8,0	12,9	9,0	8,0	25	2,0	0,131	100
262270	light grey	9,0	12,0	9,0	9,0	22	2,0	0,132	100
262272	light grey	10,0	13,8	10,4	9,3	25	2,0	0,145	100
262274	light grey	2,75	4,5	2,6	2,75	19	1,65	0,047	100
262276	light grey	3,5	5,9	3,7	3,5	15	2,0	0,060	100
262278	light grey	4,0	6,6	4,2	4,0	18	2,5	0,091	100
262280	light grey	5,0	7,6	5,0	5,0	18	2,5	0,100	100
262282	light grey	6,0	9,0	6,6	6,0	18	2,5	0,106	100
262284	light grey	6,0	10,5	6,9	6,0	20	2,5	0,119	100
262286	light grey	7,0	11,0	7,5	7,0	22	2,5	0,128	100
262288	light grey	8,0	12,9	8,15	8,0	22	2,5	0,136	100
262290	light grey	9,0	12,0	9,0	9,0	22	2,5	0,138	100
262292	light grey	9,5	13,8	10,4	9,3	25	2,5	0,156	100
262294	light grey	11,0	16,6	12,2	11,0	27	2,5	0,234	100
262296	light grey	12,0	16,0	12,3	12,0	27	2,5	0,223	100
262298	light grey	14,0	20,5	15,6	14,0	35	3,0	0,345	100
262300	light grey	16,0	21,7	17,0	16,5	38	3,2	0,472	100
262302	light grey	18,0	22,0	17,5	18,0	38	3,2	0,457	100
262304	light grey	20,0	23,5	18,5	20,0	38	3,2	0,254	50
262306	light grey	22,0	27,8	23,0	22,0	42	3,2	0,321	50
262308	light grey	25,0	30,4	25,0	25,0	47	3,2	0,433	50
262310	light grey	32,0	40,0	33,5	32,0	56	3,6	0,306	25

- NL = nail length
- N-∅ = nail diameter
- H = height
- H1 = height 1
- W = width (opening)

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Cable glands, IP68



INFO

Cable glands polyamide IP68

Properties:

integrated strain relief, fully mounted, RoHS-compliant.

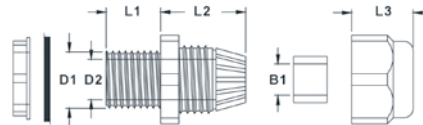
HAUPA cable glands do protect electric equipment (switchboards, distribution boxes) against mechanical influences, dust, and humidity by connecting a cable tight and sealed to the housing.

HAUPA offers next to metric as well PG cable glands.

HAUPA cable glands are IP68 (dust and humidity) to protect human against the potential risk during usage.

Cable glands IP 68, metric or PG, assembled with washer and lock nut, fully mounted

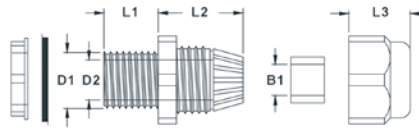
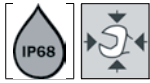
material: polyamide 6.6, (gland body: PA 6.6, halogen free, seal: TPR, halogen free, washer: PVC), colour: light- grey or black, temperature range: - 40°C to + 85°C, vibration protection: integrated anti- twist protection for vibration- firm assembly, fire class: according to UL 94 V-2, protection category: IP68, properties: integrated strain relief; easy to install, RoHS- compliant, completely assembled as shown



Art. no.	colour	KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU		
250040	light- grey	M12	3-6,5	12,0	8,3	6,9	7,9	19,6	13,6	15	0,024	10	4.250
250042	light- grey	M16	5-10	16,0	10,9	9,6	15,5	23,4	16,9	22	0,024	10	1.700
250044	light- grey	M20	8-12	20,0	14,1	12,5	10,0	25,0	18,1	24	0,024	10	1.200
250046	light- grey	M20	10-14	20,0	15,0	14,8	10,0	28,5	18,5	27	0,024	10	1.190
250048	light- grey	M20	10-14	20,0	15,0	14,8	15,0	28,5	18,5	27	0,024	10	1.190
250050	light- grey	M25	13-18	25,0	18,6	18,4	15,2	29,4	22,3	33	0,024	10	680
250052	light- grey	M32	18-25	32,0	26,0	25,0	14,7	34,5	25,7	42	0,024	10	340
250054	light- grey	M40	22-32	40,0	33,7	33,1	18,4	41,7	31,3	54	0,024	5	230
250056	light- grey	M50	30-38	50,0	41,9	40,0	17,8	44,2	31,3	61	0,024	5	160
250058	light- grey	M63	34-44	61,0	55,0	43,2	18,5	44,6	32,7	66	0,024	5	120
250080	black	M12	3-6,5	12,0	8,3	6,9	7,9	19,6	13,6	15	0,024	10	4.250
250082	black	M16	5-10	16,0	10,9	9,6	15,5	23,4	16,9	22	0,024	10	1.700
250084	black	M20	8-12	20,0	14,1	12,5	10,0	25,0	18,1	24	0,024	10	1.200
250086	black	M20	10-14	20,0	15,0	14,8	10,0	28,5	18,5	27	1,620	10	1.190
250088	black	M20	10-14	20,0	15,0	14,8	15,0	28,5	18,5	27	17,000	10	1.190
250090	black	M25	13-18	25,0	18,6	18,4	15,2	29,4	22,3	33	2,690	10	680
250092	black	M32	18-25	32,0	26,0	25,0	14,7	34,5	25,7	42	4,560	10	340
250094	black	M40	22-32	40,0	33,7	33,1	18,4	41,7	31,3	54	8,100	5	230
250096	black	M50	30-38	50,0	41,9	40,0	17,8	44,2	31,3	61	10,100	5	160
250098	black	M63	34-44	61,0	55,0	43,2	18,5	44,6	32,7	66	11,400	5	120
250060	light- grey	PG7	3,5-6	12,5	8,3	6,9	7,9	20,0	13,3	15	0,024	10	4.250
250062	light- grey	PG9	4-8	15,2	10,5	7,8	7,9	22,0	15,1	19	0,024	10	2.980
250064	light- grey	PG11	5-10	18,6	13,2	10,8	7,9	23,7	18,3	22	0,024	10	2.040
250066	light- grey	PG13,5	6-12	20,4	15,5	12,5	8,9	24,6	18,9	24	0,024	10	1.530
250068	light- grey	PG16	10-14	22,5	17,2	15,0	9,8	26,2	19,5	27	0,024	10	1.190
250070	light- grey	PG21	13-18	28,3	22,4	18,5	10,8	30,0	23,7	33	0,024	10	680
250072	light- grey	PG29	18-25	37,0	30,6	25,3	10,8	35,0	27,4	42	0,024	10	380
250074	light- grey	PG36	22-32	47,0	35,3	36,3	7,9	42,3	30,3	53	0,024	5	200
250076	light- grey	PG42	30-38	54,0	40,0	40,4	14,5	44,0	31,2	60	0,024	5	140
250078	light- grey	PG48	34-44	59,3	46,2	46,3	15,6	42,7	31,3	65	0,024	5	130
250100	black	PG7	3,5-6	12,5	8,3	6,9	7,9	20,0	13,3	15	0,560	10	4.250
250102	black	PG9	4-8	15,2	10,5	7,8	7,9	22,0	15,1	19	7,500	10	2.980
250104	black	PG11	5-10	18,6	13,2	10,8	7,9	23,7	18,3	22	1,030	10	2.040
250106	black	PG13,5	6-12	20,4	15,5	12,5	8,9	24,6	18,9	24	1,400	10	1.530
250108	black	PG16	10-14	22,5	17,2	15,0	9,8	26,2	19,5	27	1,560	10	1.190
250110	black	PG21	13-18	28,3	22,4	18,5	10,8	30,0	23,7	33	2,480	10	680
250112	black	PG29	18-25	37,0	30,6	25,3	10,8	35,0	27,4	42	4,160	10	380
250114	black	PG36	22-32	47,0	35,3	36,3	7,9	42,3	30,3	53	8,240	5	200
250116	black	PG42	30-38	54,0	40,0	40,4	14,5	44,0	31,2	60	10,800	5	140
250118	black	PG48	34-44	59,3	46,2	46,3	15,6	42,7	31,3	65	11,600	5	130

SlimTop - cable glands IP 68, metric or PG, assembled with washer and lock nut, industry

material: polyamide 6.6, (gland body: PA 6.6, halogen free, seal: TPR, halogen free, washer: PVC), colour: light- grey or black, temperature range: - 40°C to + 85°C, vibration protection: integrated anti- twist protection for vibration- firm assembly, fire class: according to UL 94 V-2, protection category: IP68, properties: integrated strain relief, not mounted, easy to install, RoHS-compliant

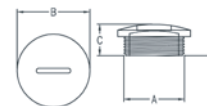


Art. no.	colour	KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU		
250140	light- grey	M12	3 - 6,5	12,0	7,3	7,1	8,0	19,6	12,7	15	0,400	10	4.250
250142	light- grey	M16	5 - 10	16,0	10,7	10,4	8,0	23,3	16,1	20	0,800	10	1.700
250044	light- grey	M20	8-12	20,0	14,1	12,5	10,0	25,0	18,1	24	0,024	10	1.200
250144	light- grey	M25	11 - 17	25,0	18,0	17,3	8,0	30,0	20,0	29	1,400	10	680
250146	light- grey	M32	15 - 21	32,0	25,7	21,6	10,0	35,4	24,1	36	2,900	10	340
250148	light- grey	M40	20 - 28	40,0	32,7	28,6	10,0	39,4	27,5	46	4,800	5	230
250150	light- grey	M50	27 - 35	50,0	42,4	35,8	12,0	43,4	31,8	55	8,300	5	160
250152	light- grey	M63	32 - 42	63,0	55,0	48,8	12,0	46,4	33,7	68	10,200	5	120

Art. no.	colour	KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU		
250120	light- grey	M12	3 - 6,5	12,0	7,3	7,1	8,0	19,6	12,7	15	0,400	10	4.250
250122	light- grey	M16	5 - 10	16,0	10,7	10,4	8,0	23,3	16,1	20	0,8	10	1.700
250084	light- grey	M20	8-12	20,0	14,1	12,5	10,0	25,0	18,1	24	0,024	10	1.200
250124	light- grey	M25	11 - 17	25,0	14,1	17,3	20,0	25	18,1	29	1,400	10	680
250126	light- grey	M32	11 - 17	32,0	25,7	21,6	10,0	35,4	24,1	36	2,900	10	340
250128	light- grey	M40	20 - 28	40,0	32,7	28,6	10,0	39,4	27,5	46	4,800	5	230
250130	light- grey	M50	27 - 35	50,0	42,4	35,8	12,0	43,4	31,8	55	8,300	5	160
250132	light- grey	M63	32 - 42	63,0	55,0	48,8	12,0	46,4	33,7	68	10,200	5	120

Dummy plugs

Dummy plugs light- grey and black



Art. no.	colour	A	B	D	D	kg/100	PU	
250196	light- grey	M12	11,7	15,0	10,0	6,0	0,090	100
250198	light- grey	M16	15,7	20,0	10,5	6,0	0,150	100
250200	light- grey	M20	19,9	24,0	12,8	6,0	0,220	100
250202	light- grey	M25	24,7	29,7	12,8	7,8	0,350	100
250204	light- grey	M32	31,7	36,6	13,3	7,8	0,330	50
250206	light- grey	M40	39,9	45,8	13,4	7,8	0,420	50
250208	light- grey	M50	49,4	55,5	16,2	9,8	1,300	10
250210	light- grey	M63	62,4	69,3	17,5	11,8	1,800	10
250212	light- grey	PG7	12,2	14,8	10,0	6,0	0,090	100
250214	light- grey	PG9	15,1	18,7	10,4	6,0	0,140	100
250216	light- grey	PG11	18,5	21,7	10,4	6,0	0,140	100
250218	light- grey	PG13,5	20,3	23,7	10,3	6,0	0,210	100
250220	light- grey	PG16	22,3	27,0	10,3	6,0	0,290	100
250222	light- grey	PG21	28,2	32,8	12,8	7,8	0,480	100
250224	light- grey	PG29	37,0	44,1	13,2	7,8	0,400	50
250226	light- grey	PG36	47,0	52,6	13,7	7,8	0,500	50
250228	light- grey	PG42	54,0	59,5	16,2	9,6	0,090	10
250230	light- grey	PG48	59,6	64,2	17,5	11,8	1,800	10

Art. no.	colour	A	B	D	D	kg/100	PU	
250160	black	M12	11,7	15,0	10,0	6,0	0,090	100
250162	black	M16	15,7	20,0	10,5	6,0	0,150	100
250164	black	M20	19,9	24,0	10,5	6,0	0,220	100
250166	black	M25	24,7	29,7	12,8	7,8	0,350	100
250168	black	M32	31,7	36,6	13,3	7,8	0,330	50
250170	black	M40	39,9	45,8	13,4	7,8	0,420	50
250172	black	M50	49,4	55,5	16,2	9,8	1,300	10
250174	black	M63	62,4	69,3	17,5	11,8	1,800	10
250176	black	PG7	12,2	14,8	10,0	6,0	0,090	100
250178	black	PG9	15,1	18,7	10,4	6,0	0,140	100
250180	black	PG11	18,5	21,7	10,4	6,0	0,140	100
250182	black	PG13,5	20,3	23,7	10,3	6,0	0,210	100
250184	black	PG16	22,3	27,0	10,3	6,0	0,290	100
250186	black	PG21	28,2	32,8	12,8	7,8	0,480	100
250188	black	PG29	37,0	44,1	13,2	7,8	0,400	50
250190	black	PG36	47,0	52,6	13,7	7,8	0,500	50
250192	black	M12	54,0	59,5	16,2	9,6	1,300	10
250194	black	PG48	59,6	64,2	17,5	11,8	1,800	10

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INFO

Cable glands polyamide IP68

Properties:

integrated strain relief, fully mounted, RoHS-compliant.

HAUPA cable glands do protect electric equipment (switchboards, distribution boxes) against mechanical influences, dust, and humidity by connecting a cable tight and sealed to the housing.

HAUPA offers next to metric as well PG cable glands.

For an EMC-compatible installation, brass cable glands inclusive EMC insets should be used.

HAUPA cable glands are IP68 (dust and humidity) to protect human against the potential risk during usage.

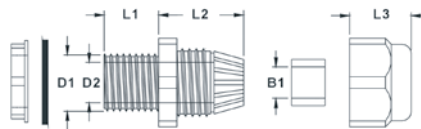
Cable glands brass nickel-plated, IP68, fully mounted

Material: brass nickel-plated, (halogen free)

lock nut/washer: TPR

temperature range: - 40°C to + 120°C

protection category: IP68



Art. no.		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU
250600	M12	3-8,5	12,0	8,4	6,8	6,2	17,0	10,9	14	0,024	10
250602	M16	4 - 8	16,0	12,0	8,6	7,7	18,0	12,9	18	0,024	10
250604	M20	6 - 12	20,0	16,0	11,9	8,1	20,0	13,9	22	0,030	10
250606	M25	10 - 14	25,0	20,5	14,5	8,5	20,2	14,0	24 - 27	0,043	10
250608	M32	15 - 22	32,0	27,0	21,5	10	24,5	18,0	35	0,085	10
250610	M40	18 - 25	40,0	35,5	25,5	11	27,0	19,0	40 - 45	0,140	5
250611	M40	22 - 30	40,0	35,0	30,5	11,0	28,0	20,5	45	0,140	5
250612	M50	32 - 38	50,0	44,0	39,0	13	32,0	23,0	55 - 57	0,260	5
250614	M63	37 - 44	63,0	55,5	44,5	14	34,0	22,0	64 - 68	0,380	5
Art. no.		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU
250630	PG7	3 - 6,5	12,0	8,5	6,9	6,5	16,5	10,8	14	0,013	10
250632	PG9	4 - 8	14,8	11,8	8,5	8,1	18,9	12,7	17	0,019	10
250634	PG11	5 - 10	18,2	14,2	10,5	8	18,5	13,5	20 - 21	0,028	10
250636	PG13,5	6 - 12	20,1	16,2	12,1	7,7	20,5	13,9	23 - 22	0,033	10
250638	PG16	10 - 14	22,2	18,3	14,5	8,3	19,7	14,2	25 - 24	0,038	10
250640	PG21	13 - 18	28,2	23,8	18,2	8,8	23,3	16,5	30	0,060	10
250642	PG29	18 - 25	36,6	32,4	25,2	10,0	26,3	19,4	40	0,111	10
250644	PG36	25 - 33	46,0	41,5	33,2	11,0	32,0	22,0	50	0,190	5
250646	PG42	32 - 38	53,8	47,7	38,7	12,0	32,0	22,0	57	0,255	5
250648	PG48	37 - 44	59,0	52,6	44,5	12,6	33,9	22,8	64	0,345	5

EMC-cable glands brass nickel-plated, IP68

EMC-cable glands brass nickel-plated, IP68

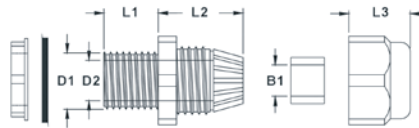
To ensure correct EMP installation, the brass cable screws with EMP inserts should be used.

Material: brass nickel-plated, (halogen free)

lock nut/washer: TPR

temperature range: - 40°C to + 120°C

protection category: IP68



Art. no.		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU
250650	M12	3 - 8,5	12,0	8,4	6,8	6,2	17,0	10,9	14	0,013	10
250652	M16	4 - 8	16,0	12,0	8,6	7,7	18,0	12,9	18	0,024	10
250654	M20	6 - 12	20,0	16,0	11,9	8,1	20,0	13,9	22	0,030	10
250656	M25	10 - 14	25,0	20,5	14,5	8,5	20,2	14,0	24 - 27	0,043	10
250658	M32	15 - 22	32,0	27,0	21,5	10,0	24,5	18,0	35	0,085	10
250660	M40	18 - 25	40,0	35,5	25,5	11,0	27,0	19,0	40 - 45	0,140	5
250661	M40	22 - 30	40,0	35,0	30,5	11,0	28,0	20,5	45	0,140	5
250662	M50	32 - 38	50,0	44,0	39,0	13,0	32,0	23,0	55 - 57	0,260	5
250664	M63	37 - 44	63,0	55,5	44,5	14,0	34,0	22,0	64 - 68	0,380	5

Art. no.		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU
250666	PG7	3 - 6,5	12,0	8,5	6,9	6,5	16,5	10,8	14	0,013	10
250668	PG9	4 - 8	14,8	11,8	8,5	8,1	18,9	12,7	17	0,019	10
250670	PG11	5 - 10	18,2	14,2	10,5	8,0	18,5	13,5	20 - 21	0,028	10
250672	PG13,5	6 - 12	20,1	16,2	12,1	7,7	20,5	13,9	23 - 22	0,033	10
250674	PG16	10 - 14	22,2	18,3	14,5	8,3	19,7	14,2	25 - 24	0,038	10
250676	PG21	13 - 18	28,2	23,8	18,2	8,8	23,3	16,5	30	0,024	10
250678	PG29	18 - 25	36,6	32,4	25,2	10,0	26,3	19,4	40	0,111	10
250680	PG36	25 - 33	46,0	41,5	33,2	11,0	32,0	22,0	50	0,190	5
250682	PG42	32 - 38	53,8	47,7	38,7	12,0	32,0	22,0	57	0,255	5
250684	PG48	37 - 44	59,0	52,6	44,5	12,6	33,9	22,8	64	0,345	5

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Heat shrinkable tubes

of polyolefin, radiation interlaced, self extinguished according to MV SS 302, thin and flexible, dielectric strength 15 - 25 KV/mm acc. to DIN 53481, operating temperature: - 55° C to 135° C, shrinking temperature: > 115° C, 1 m length in self-service-pack



Art. no.	Ø before	Ø after	mm	kg	PU
262085	4,8	2,4	0,5	0,007	10
262086	6,4	3,2	0,6	0,010	10
262087	9,5	4,8	0,6	0,012	10
262088	12,7	6,4	0,6	0,017	10
262089	19,0	9,5	0,8	0,035	10
262090	25,4	12,7	0,9	0,045	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 m length, in self-service-pack



Art. no.	Ø before	Ø after	mm	kg	PU
262095	19,0	9,5	0,8	0,173	1
262096	25,4	12,7	0,9	0,223	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 length, in self-service-pack



Art. no.	Ø before	Ø after	mm	kg	PU
262073	1,2	0,6	0,4	0,024	1
262074	1,6	0,8	0,5	0,027	1
262075	2,4	1,2	0,5	0,045	1
262076	3,2	1,6	0,5	0,055	1
262091	4,8	2,4	0,5	0,074	1
262092	6,4	3,2	0,6	0,106	1
262093	9,5	4,8	0,6	0,123	1
262094	12,7	6,4	0,6	0,180	1

Heat shrinkable tubes

of polyolefin, self extinguished according to MV SS 302, thin and flexible universal using, dielectric strength 15 - 25 KV/mm DIN 53481, operating temperature: - 55° C to 135° C, shrinking temperature: > 115° C, in 75 m role



Art. no.	Ø before	Ø after	mm	kg	PU
262093/75	9,5	4,8	0,6	1,100	1

Industrial hot air blower for shrink hoses

Electronic hot air blower with continuous temperature control and two blower levels, characterised by low weight and slim design. This makes it ideal for long and fatigue-free working and for use in difficult to access areas. The temperature control is continuous, and the air volume can be set to two different levels. For shrink hoses.

Technical data:

Length/Ø (at shock protection): 325 mm / 85 mm

Voltage: 230 V / 50 Hz (special voltages possible)

Power: 2000 W

Temperature: 100° - 600° C continuous control

Air volume: min. 300 l/min. / max. 500 l/min.



Art. no.	kg	PU
262097	0,773	1

Electrical insulating tape



INFO

Electro insulating tape

Typical uses in electrical installations

Insulation, Sealing, Padding, Protection from corrosion, heat, electromagnetic faults, cable marking, etc

Benefits:

- VDE tested
- DIN EN 60454-3-1
- Easy to unroll
- Very good adhesive properties
- High flexibility
- Wrinkle free adhesion to uneven surfaces
- Tear-proof and resistant to aging
- Flame retardant
- Self-extinguishing
- Temperature resistant from -30°C to 105°C
- Water, weather and UV resistant
- With many uses
- For insulating, bundling, marking
- Available in 10 colours

Rainbow-Pack

- VDE tested
- DIN EN 60454-3-1
- Water, weather and UV resistant



Art. no.	widht/mm	length/m	strength	colour	kg	PU
263820	15	10	0,15		0,035	1

HUPtape-15

Electrical insulating tape for the professional application

Material: PVC, in tested VDE quality, in accordance with DIN EN 60454-3-1, flame retardant, self-extinguishing. Temperature resistant from -30°C to 105°C, water, weather and UV resistant. Highly flexible with very good adhesive properties, versatile in its uses, tear-resistant and durable, for insulating, bundling and marking. Available in ten colours.



Art. no.	widht/mm	length/m	strength	colour	kg	PU
263800	15	10	0,15		0,035	120 10
263802	15	10	0,15		0,035	120 10
263804	15	10	0,15		0,035	120 10
263806	15	10	0,15		0,035	120 10
263808	15	10	0,15		0,035	120 10
263810	15	10	0,15		0,035	120 10
263812	15	10	0,15		0,035	120 10
263814	15	10	0,15		0,035	120 10
263816	15	10	0,15		0,035	120 10
263818	15	10	0,15		0,035	120 10

Art. no.	widht/mm	length/m	strength	colour	kg	PU
263822	15	20	0,15		0,060	60 10
263824	15	20	0,15		0,060	60 10
263826	15	20	0,15		0,060	60 10
263828	15	20	0,15		0,060	60 10
263830	15	20	0,15		0,060	60 10
263832	15	20	0,15		0,060	60 10
263834	15	20	0,15		0,060	60 10
263836	15	20	0,15		0,060	60 10
263838	15	20	0,15		0,060	60 10
263840	15	20	0,15		0,060	60 10

Art. no.	widht/mm	length/m	strength	colour	kg	PU
263842	19	20	0,15		0,076	48 8
263844	19	20	0,15		0,076	48 8
263846	19	20	0,15		0,076	48 8
263848	19	20	0,15		0,076	48 8
263850	19	20	0,15		0,076	48 8
263852	19	20	0,15		0,076	48 8
263854	19	20	0,15		0,076	48 8
263856	19	20	0,15		0,076	48 8
263858	19	20	0,15		0,076	48 8
263860	19	20	0,15		0,076	48 8

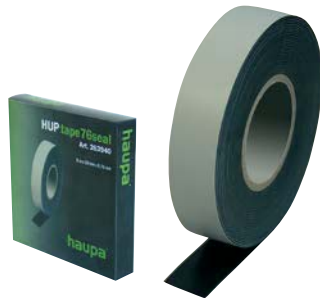
Art. no.	widht/mm	length/m	strength	colour	kg	PU
263862	25	20	0,15		0,100	36 6
263864	25	20	0,15		0,100	36 6
263866	25	20	0,15		0,100	36 6
263868	25	20	0,15		0,100	36 6
263870	25	20	0,15		0,100	36 6
263872	25	20	0,15		0,100	36 6
263874	25	20	0,15		0,100	36 6
263876	25	20	0,15		0,100	36 6
263878	25	20	0,15		0,100	36 6
263880	25	20	0,15		0,100	36 6

Art. no.	widht/mm	length/m	strength	colour	kg	PU
263882	19	33	0,15		0,120	48 8
263884	19	33	0,15		0,120	48 6
263886	19	33	0,15		0,120	48 6
263888	19	33	0,15		0,120	48 6
263890	19	33	0,15		0,120	48 6
263892	19	33	0,15		0,120	48 6
263894	19	33	0,15		0,120	48 6
263896	19	33	0,15		0,120	48 6
263898	19	33	0,15		0,120	48 6
263900	19	33	0,15		0,120	48 6

Self-welding

Self-welding insulation tape „tape76seal“

- Forms homogenous welding wraps
- Excellent dielectric properties
- Weather proof (UV resistant)
- Insulation on medium voltage cables up to 69 kV
- Resistant to corrosion, acids and lyes
- Individual in box packaging



Art. no.	TL	widht/mm	strength	kg	PU
263940	9 m	19	0,76	0,203	1

Resistant to cold

Cold-resistant insulation tape „HUPtape-22plus“

- Excellent wrapping properties
- Can be processed even at very low temperatures
- Extreme weather proof (UV resistant)
- Resistant to corrosion, acids and lyes
- Processing temperature: -18°C to + 60°C
- Individually packaged in plastic box



Art. no.	TL	widht/mm	strength	kg	PU
263930	20 m	19	0,215	0,105	1

Routine tests

Safety advice for working with live voltage

The basic requirements for working with live voltage are safety-insulated tools. Legal regulations and the following safety advice should always be observed:

1. Transport your safety tools such that damage to the insulation is avoided.
2. Before use, make sure that the insulation is not damaged. Damaged tools must not be used.
3. Keep your safety tools clean and dry.
4. When working overhead or when using cutting pliers, protective glasses must be worn.
5. For your own safety, keep your work space clean and tidy when working with live voltage.
6. In enclosed, cramped spaces, protective clothing and equipment must be worn (e.g. safety gloves, covering drapes, protective hoods)
7. Only use suitable and tested tools. Make sure that loose and cut off parts do not fall onto live components.

Routine tests in accordance with VDE Norm 1000 V IEC 60900:2004



Cold-heading test

In this test, the toughness of the PVC material is checked by dropping a weight onto the tools which have been cooled down to -25°C . The tools must not show any cracking or other damage after the test.



Testing the adhesive strength of the PVC coating

After pliers have been stored for 168 hours at $+70^{\circ}\text{C}$, the adhesive power of the PVC coating is tested using a pulling force of 500 Nm. The insulation material must stay firmly attached to the basic tool.



Flame resistance test

To exclude any fire risks, only flame-proof PVC material is used.



Pressure test

No puncture must occur, while testing the tool with a voltage of 5,000 V AC when also applying a pressure of 20 Nm at a temperature of $+70^{\circ}\text{C}$ to the tool.



Testing the insulating properties

After storing the tools under water for 24 hours, the tools are tested using 10,000 V AC for three minutes, while simultaneously measuring the discharge current. During this time, no puncture or sparkover must occur.



Voltage test

Each safety tool is individually voltage tested. This means that all tools which bear the relevant mark have been tested at 10,000 V AC and are approved for a voltage of 1,000 V, ensuring 10-fold safety.

Screw profiles

- Slot
- Cross slot Phillips
- Cross slot Pozidriv
- Pozidriv/flat slot
- Tx
- Tx with safety pin
- Allen screw
- Hexagon head
- Ball point

Patent ratchet wrench



The HAUPA ratchet wrench has a number of patented advantages. It is characterised particularly ergonomic handling and high functional safety.

The excellent interlocking of the wrench insert, which must be able to withstand pull-out forces of up to 500 N is the main feature.

The ratchet can be operated with one hand due to a cross slide made from non-conducting material (polyamide). It is ergonomically designed such that it is accessible with the thumb of the hand holding it. This cross slide, which is deep in the inside of the ratchet, also ensures that the testing voltage of 10 KV gema DIN 60900 can easily be achieved.



Safety of HAUPA products

All HAUPA products under the product area of "working with live voltage" have a 2-colour multi-layer insulation (wherever technically possible). This multi-layer insulation supports the current VBG4 regulations. This regulation requires that before use all tools are tested for any damage that can be seen externally. The 2-colourcoating – the second insulating layer contrast in yellow – ensures that any damages are visible immediately.

Working under tension

Safety tools



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INFO

Screwdriver range

Industrial quality

Screwdriver range according to the new Norm IEC 60900:2004. All blades are made of high quality Molybdenum vanadium steel, black, red-covered, Polypropylen moulded. This ergonomic moulded 2-component handles from PP/TPE material guarantees a high security with normal power transmission. Every screwdriver is individually tested and marked according to the new Norm.



1000 V IEC 60900:2004

Injected blades profile on the top of the handle – for a fast access in the tool box, abrasion is not possible



2

Homogeneous sizes-adaptation of the screwdrivers haft for better power transmission. Increase of the soft area for stronger grip

3

Exclusive, ergonomic design, non-slipping 2-component handles from PP/TPE material

4

Roll repressive



5

with 1000 V marking injected

6

Magnetic blade
An addition anti-slip protection on Phillips profiles prevents the tool from slipping out of the screw

VDE screwdrivers 1000 V

VDE 2-component screwdriver with PZ slot profile



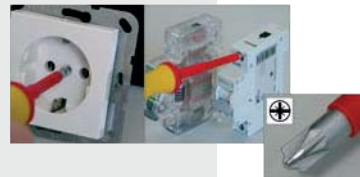
Specifications and advantages of the PZ/FL profile.

The PZ/FL profile can only be used for combination screws that were previously screwed with a slot or recessed head PZ type screwdriver. **The screws have an inner PZ profile with an additional cross slot that also allows it to be screwed with a slot screwdriver.**



Area of application for PZ/FL profile

The screws are mainly used in electrical installation in automatic circuit breakers and safety switches



1000 V IEC 60900:2004

Art. no.	size	BL	TL	kg	PU
101870	1	80	205	0,060	1
101872	2	100	270	0,094	1

Screwdriver set with PZ slot profile



with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

Contents:

- 101870
- 101872



1000 V IEC 60900:2004



Art. no.	size	set	kg	PU
101879	1 + 2	2-pcs	0,200	1

2-component VDE electricians' screwdrivers



with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated



1000 V IEC 60900:2004



Art. no.	CW	BL	TL	kg	PU
101910	2,5	75	155	0,027	1
101912	3	100	185	0,029	1
101914	3,5	100	185	0,035	1
101916	4	100	195	0,052	1
101918	5,5	125	230	0,070	1
101920	6,5	150	255	0,108	1
101922	8	175	295	0,177	1
101924	10	200	320	0,245	1

2-component VDE cross slotted screwdrivers Phillips

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated



1000 V IEC 60900:2004



Art. no.	size	BL	TL	kg	PU
101940	0	60	145	0,034	1
101942	1	80	175	0,061	1
101944	2	100	205	0,100	1
101946	3	150	270	0,165	1

2-component VDE cross slotted screwdrivers Pozidriv

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated



1000 V IEC 60900:2004



Art. no.	size	BL	TL	kg	PU
101950	0	60	135	0,033	1
101952	1	80	175	0,061	1
101954	2	100	205	0,095	1
101956	3	150	270	0,166	1

2-component VDE screwdrivers Tx

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated



1000 V IEC 60900:2004



Art. no.	size	BL	TL	kg	PU
101850	08	100	185	0,053	1
101852	09	100	185	0,051	1
101854	10	100	195	0,053	1
101856	15	100	195	0,053	1
101858	20	100	195	0,052	1
101860	25	125	220	0,070	1
101862	27	125	230	0,072	1
101864	30	150	255	0,109	1
101866	40	175	295	0,178	1

2-component VDE screwdrivers Square

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

1000 V IEC 60900:2004



Art. no.	size	BL	TL	kg	PU
102550	0	60	145	0,034	1
102552	1	80	175	0,061	1
102554	2	100	205	0,095	1
102556	3	150	270	0,166	1

2-component VDE screwdrivers set

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated, 6-pieces. **Contents:** VDE Electricians' screwdriver 2,5 x 75 mm, 4 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm, VDE cross slotted screwdrivers Phillips or Pozidriv size 1 and 2



1000 V IEC 60900:2004



Art. no.			kg	PU
101999	Phillips	6-pieces	0,414	1
101999/PZ	Pozidriv	6-pieces	0,416	1

VDE socket wrenches 1000 V

2-component VDE socket wrenches DIN 7445

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

1000 V IEC 60900:2004



Art. no.	WS	BL	TL	kg	PU
102520	4	125	220	0,105	1
102522	5	125	220	0,109	1
102524	5,5	125	220	0,116	1
102526	6	125	220	0,111	1
102528	7	125	230	0,116	1
102530	8	125	230	0,119	1
102532	9	125	230	0,122	1
102534	10	125	230	0,125	1
102536	11	125	245	0,167	1
102538	12	125	245	0,165	1
102540	13	125	245	0,175	1

2-component VDE socket wrenches set DIN 7445

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated. **Contents:** 1 piece each 5 - 5,5 - 7 - 8 - 10 - 11 - 13 mm

1000 V IEC 60900:2004



Art. no.		kg	PU
102512	7-pieces	1,065	1

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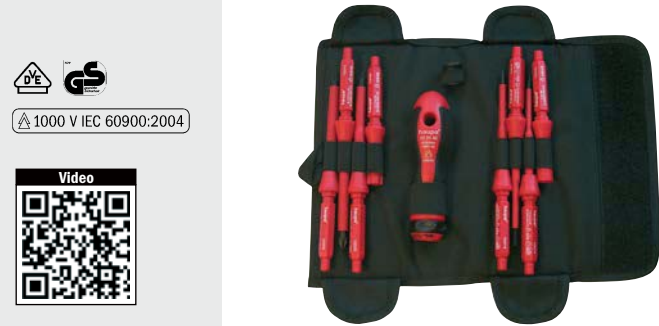
"Vario" 1000 V replaceable blade system

HAUPA "Vario" 1000 V replaceable blade system

in robust nylon bag, **Contents:** 2C exchangeable handle, screw cap, replaceable blade - slotted blade 0.4 x 2.5 / 0.5 x 3.0 / 0.8 x 4.0 / PH1 / PH2 or PZ1 / PZ2, PZ/FL 2, switch cabinet key - square 1, double-bit

Further characteristic feature include:

- High level of safety
- Exchangeable cap for use as an electronics screwdriver
- Switching cabinet key is integrated into the system
- Space-saving
- Weight-saving
- Cost-effective price/performance ratio
- Meets all relevant standards



Art. no.	shank	set	kg	PU
102000	Phillips	hexagonal 10-pieces	0,340	1
102000/PZ	Pozidriv	hexagonal 10-pieces	0,334	1

Accessories "Vario"

Art. no.	kg	PU
102040	2-component exchangeable „Vario“ handle	0,058 1
102042	„Vario“ nylon bag - empty	0,088 1
102044	„Vario“ screw cap	0,002 1

HAUPA "Vario Plus" 1000 V replaceable blade system

The „Vario Plus“ replaceable blade system with insulated replaceable blades, switching cabinet key is integrated into the system, VDE pliers set and voltage tester.

Contents:

- Slot: 0,4 x 2,5 x 100; 0,5 x 3,0 x 100; 0,6 x 3,5 x 100; 0,8 x 4,0 x 100; 1,0 x 5,5 x 100; 1,2 x 6,5 x 100
- Phillips: 0 x 100, 1 x 100, 2 x 100
- Pozidriv: 0 x 100, 1 x 100, 2 x 100
- Tx: 8 x 100, 9 x 100, 10 x 100, 15 x 100, 20 x 100, 25 x 100, 30 x 100
- Square: 8 x 47
- Double-bit: 5,3 x 47
- Screw cap, additional screw cap when using as precision tool (electronics)
- 2-component exchangeable handle: 120 mm
- Voltage testers VDE/GS: 100700, 125 - 250 V
- VDE 2C pliers: 211200, 211204, 211208, 211214



Art. no.	width	depth	height	kg	PU
102050	28-pieces	270	80	2,483	1

"Vario" 1000 V replaceable blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

1000 V IEC 60900:2004



"Vario" replaceable blade - pozidrive blade/slotted

Art. no.	size	BL	TL	kg	PU
102010	1	85	165	0,035	1
102012	2	85	165	0,045	1

1000 V IEC 60900:2004



"Vario" replaceable blade - slotted blade

Art. no.	CW	BL	TL	kg	PU
102014	2,5	85	165	0,013	1
102016	3,0	85	165	0,015	1
102017	3,5	85	165	0,080	1
102018	4,0	85	165	0,022	1
102020	5,5	85	165	0,034	1
102022	6,5	85	165	0,045	1

1000 V IEC 60900:2004



"Vario" replaceable blade - Phillips blade

Art. no.	size	BL	TL	kg	PU
102001	0	85	165	0,023	1
102002	1	85	165	0,035	1
102004	2	85	165	0,044	1

1000 V IEC 60900:2004



"Vario" replaceable blade - pozidrive blade

Art. no.	size	BL	TL	kg	PU
102005	0	85	165	0,023	1
102006	1	85	165	0,035	1
102008	2	85	165	0,045	1

1000 V IEC 60900:2004



"Vario" replaceable blade - torx blade

Art. no.	size	BL	TL	kg	PU
102060	8	85	165	0,016	1
102062	9	85	165	0,016	1
102064	10	85	165	0,016	1
102066	15	85	165	0,021	1
102068	20	85	165	0,021	1
102070	25	85	165	0,034	1
102072	30	85	165	0,041	1

1000 V IEC 60900:2004



"Vario" switch cabinet key - Square

Art. no.	size	BL	kg	PU
102030	6	47	0,010	1
102032	8	47	0,009	1

1000 V IEC 60900:2004



"Vario" switch cabinet key - Triangular

Art. no.	size	BL	kg	PU
102034	9	47	0,009	1

1000 V IEC 60900:2004



"Vario" switch cabinet key - Double-bit

Art. no.	size	BL	kg	PU
102036	5,3	47	0,009	1

INFO

Dynamometric screwdriver with replaceable blades

The new HAUPA 1000 V VarioTQ dynamometric screwdriver is characterised by its precision and functionality.

The ergonomic handles can be adjusted individually.

1. 1.0 - 6.0 Nm
2. 0.5 - 3.5 Nm

HAUPA offers all relevant blade tip profiles as individual items and in set form in a high-quality nylon case.

- torque can be set using a separate key
- scale value can easily be read off
- clearly perceptible and audible signal when the set torque is achieved
- torque accuracy according to EN ISO 6789:2003



1000 V IEC 60900:2004

with hexagonal shaft



insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted

Precisely adjustable torque

Two handle versions, also available individually:

Art. no. 102790
1.0 - 6.0 Nm

Art. no. 102792
0.5 - 3.5 Nm



"VarioTQ" 1000 V dynamometric screwdriver with replaceable blades - Phillips / Pozidriv

In robust nylon bag (with belt loop and hook and loop closure)

Contents:

- 2-component exchangeable handle (1000 V) 1 - 6 Nm or 0,5 - 3,5 Nm
- slotted 0,4 x 2,5 / 0,5 x 3,0 / 0,8 x 4,0 / 1,0 x 5,5 / 1,2 x 6,5
- PH0 / PH1 / PH2 or PZ0 / PZ1 / PZ2
- PZ/FL 1
- PZ/FL 2
- Square socket key



1000 V IEC 60900:2004

Video 102700



Art. no.	form	Nm	set	kg	PU
102700	PH	1 - 6	12-pieces	0,700	1
102701	PH	0,5 - 3,5	12-pieces	0,700	1
102700/PZ	PZ	1 - 6	12-pieces	0,700	1
102701/PZ	PZ	0,5 - 3,5	12-pieces	0,700	1

"VarioTQ" 1000 V dynamometric screwdriver with replaceable blades - Tx / Hex

In robust nylon bag (with belt loop and hook and loop closure)

Contents:

- 2-component exchangeable handle (1000 V) 1 - 6 Nm or 0,5 - 3,5 Nm
- TX 8 - 9 - 10 - 15 - 20 - 25 - 30 or TX 8 - 9 - 10 - 15 - 20, HEX 4 - 5
- PZ/FL 1
- PZ/FL 2
- Square socket key



1000 V IEC 60900:2004



Art. no.	form	Nm	set	kg	PU
102702	TX	1 - 6	11-pieces	0,700	1
102703	TX	0,5 - 3,5	11-pieces	0,700	1
102706	TX+HEX	1 - 6	11-pieces	0,760	1
102707	TX+HEX	0,5 - 3,5	11-pieces	0,760	1

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"VarioTQ" 1000 V replaceable blade system

"VarioTQ" 1000 V dynamometric screwdriver with replaceable blades - Hex

In robust nylon bag (with belt loop and hook and loop closure)

Contents:

- 2-component exchangeable handle (1000 V) 1 - 6 Nm or 0,5 - 3,5 Nm
- HEX 2 - 3 - 3,5 - 4 - 4,5 - 5 - 5,5 mm
- PZ/FL 1
- PZ/FL 2
- Square socket key



1000 V IEC 60900:2004



Art. no.	form	Nm	set	kg	PU
102704	HEX	1 - 6	11-pieces	0,700	1
102705	HEX	0,5 - 3,5	11-pieces	0,700	1

"VarioTQ" 1000 V nylon bag - empty

Robust nylon bag (with belt loop) wide hook and eye fastening and loop for hanging up



Art. no.	kg	PU
102785	empty	0,115 1

2-component exchangeable "VarioTQ" 1000 V handle

automatic locking mechanism ensures that blades do not fall out unexpectedly, ergonomically formed 2 component book of PP/TPE material, precisely adjustable torque

1000 V IEC 60900:2004



Art. no.	TL	Nm	kg	PU
102790	122	1 - 6	0,185	1
102792	122	0,5 - 3,5	0,185	1

Square socket key

for adjustment of the torque for VarioTQ replacement blades



Art. no.	BL	KlBr	kg	PU
102784	40	8	0,056	1

"VarioTQ" 1000 V replaceable blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

1000 V IEC 60900:2004



"VarioTQ" 1000 V replaceable blade - pozidrive blade/slotted

Art. no.	form	size	BL	TL	kg	PU
102780	PZ/FL	1	195	195	0,040	1
102782	PZ/FL	2	195	195	0,040	1

1000 V IEC 60900:2004



"VarioTQ" 1000 V replaceable blade - slotted blade

Art. no.	form	CW	BL	TL	kg	PU
102710	SL	2,5	195	195	0,040	1
102712	SL	3,0	195	195	0,040	1
102714	SL	4,0	195	195	0,040	1
102716	SL	5,5	195	195	0,040	1
102718	SL	6,5	195	195	0,040	1

1000 V IEC 60900:2004



"VarioTQ" 1000 V replaceable blade - Phillips blade

Art. no.	form	size	BL	TL	kg	PU
102720	PH	0	195	195	0,040	1
102722	PH	1	195	195	0,040	1
102724	PH	2	195	195	0,040	1
102726	PH	3	195	195	0,040	1

1000 V IEC 60900:2004



"VarioTQ" 1000 V replaceable blade - pozidrive blade

Art. no.	form	size	BL	TL	kg	PU
102730	PZ	0	195	195	0,040	1
102732	PZ	1	195	195	0,040	1
102734	PZ	2	195	195	0,040	1
102736	PZ	3	195	195	0,040	1

1000 V IEC 60900:2004



"VarioTQ" 1000 V replaceable blade - torx blade

Art. no.	form	size	BL	TL	kg	PU
102740	TX	8	195	195	0,040	1
102742	TX	9	195	195	0,040	1
102744	TX	10	195	195	0,040	1
102746	TX	15	195	195	0,040	1
102748	TX	20	195	195	0,040	1
102750	TX	25	195	195	0,040	1
102752	TX	30	195	195	0,040	1

1000 V IEC 60900:2004



"VarioTQ" 1000 V replaceable blade - hex blade

Art. no.	form	size	BL	TL	kg	PU
102760	HEX	2	195	195	0,040	1
102762	HEX	3	195	195	0,040	1
102764	HEX	3,5	195	195	0,040	1
102766	HEX	4	195	195	0,040	1
102768	HEX	4,5	195	195	0,040	1
102770	HEX	5	195	195	0,040	1
102772	HEX	5,5	195	195	0,040	1

INFO

2 component pliers

Industrial quality

HAUPA divides the VDE pliers assortment into three groups.

1. 2C VDE pliers with plug-on handles
2. VDE pliers, coating-insulated, treated with a 2-coloured coating-isolation (outside red/inside yellow)
3. VDE pliers with a 2-coloured coating-isolation (outside red/inside yellow), working head insulated

These pliers fulfil the VDE standard IEC 60900:2004

Combination pliers DIN 5244 VDE

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



⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
211200	185	0,287	1
211202	205	0,364	1

Side cutters DIN 5238 B VDE

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



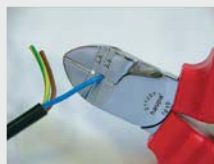
⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
211204	165	0,237	1
211206	185	0,296	1

Side cutting pliers with stripping function 1000 V

Swedish design, power class H, C 60, oil-hardened, induction hardened blades, for hard and soft wire up to 200 kp/mm² (N 2000), high-gloss chrome plated, push-on grips. Aside from their traditional advantages, these side cutting pliers also possess an additional wire stripping function.



⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
211203	165	0,296	1
211207	185	0,296	1

VDE pliers, sheathed handles 1000 V

Wire stripping pliers DIN 5232 VDE

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



⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
211214	160	0,202	1

Heavy duty side cutters DIN 5238 A VDE

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



⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
211217	170	0,268	1
211219	205	0,322	1

Long chain nose pliers DIN 5236 A VDE

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



⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
211208	200	0,255	1
211210	200	0,260	1

Short flat nose pliers DIN 5258 VDE

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



⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
211212	160	0,168	1

Short round nose pliers DIN 5257 VDE

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



⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
211216	160	0,161	1

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VDE pliers, sheathed handles 1000 V

Water pump pliers VDE

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



1000 V IEC 60900:2004



Art. no.	TL	kg	PU
211221	240	0,392	1

Fully insulating 1000 V PVC flat nose pliers

all of plastic, specially for mounting and blocking of electric meters

1000 V IEC 60900:2004



Art. no.	TL	kg	PU
120051	190	0,109	1

Cable cutters VDE

- For cutting Cu/Al cables, fine and multi-wiring
- Chrome vanadium steel, plug-on handles
- Insulating function in upper head area
- Cable measuring function thanks to the 180 degree crossover of the legs
- Not for solid conductors
- Data, telephone and control cable, maximum \varnothing 8 mm (\varnothing 12 mm)
- Cu single wire, maximum 16 mm² (16 mm²)
- Cu fine wire, maximum 16 mm² (35 mm²)
- Cu multi-wire, maximum 16 mm² (25 mm²)
- Al single wire, maximum 16 mm² (25 mm²)
- Al multi-wire, maximum \varnothing 8 mm = 16 mm² (25 mm²)



1000 V IEC 60900:2004



Art. no.	TL	\varnothing	kg	PU
211225	160	8	0,215	1
211223	200	12	0,352	1

Flat nose pliers 1000 V

all of plastic, specially for mounting and blocking of electric meters

1000 V IEC 60900:2004



Art. no.	TL	kg	PU
120052	160	0,084	1

Cable cutters VDE, with spring joint

- For cutting Cu/Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Chrome vanadium steel
- Self-opening joint spring
- Enormous cutting power with reduced force expenditure
- Not for solid conductors



1000 V IEC 60900:2004



Art. no.	TL	\varnothing	kg	PU
211226	170	10	0,268	1
211228	230	15	0,457	1

2 components pliers set VDE, sheathed handles

with VDE-safety-isolation, best quality, pliers chrome plated, 4-pieces.

Contents:

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



1000 V IEC 60900:2004



Art. no.	kg	PU
220123	1,063	1



VDE-pliers, 2-coloured coating-insulation 1000 V

Combination pliers DIN 5244 VDE

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



1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210056	185	0,300	1
210058	205	0,418	1

Side cutters DIN 5238 B VDE

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



1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210100	165	0,253	1
210102	185	0,303	1

Side cutters DIN 5238 B VDE

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



1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210110	240	0,489	1
210117	180	0,274	1
210119	200	0,368	1

Front cutters 1000 V

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

1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210303	160	0,328	1

Long chain nose pliers DIN 5236 A VDE

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



1000 V IEC 60900:2004



Art. no.	TL		kg	PU
210388	200	straight	0,270	1
210390	200	45° angled nose	0,256	1

Short round nose pliers DIN 5257 VDE

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



1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210296	160	0,180	1

Short flat nose pliers DIN 5258 VDE

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



1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210270	160	0,187	1

Wire stripping pliers DIN 5232 VDE

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



1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210648	160	0,232	1

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VDE-pliers, 2-coloured coating-insulation 1000 V

Water pump pliers 1000 V

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

1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210588	260	0,590	1

Water pump pliers DIN 5231 1000 V

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

1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210583	300	0,423	1

Cable cutters 1000 V with spring joint

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

1000 V IEC 60900:2004



Art. no.	TL	Ø	mm ²	kg	PU
200086/VDE	205	10	25	0,274	1
200088/VDE	230	15	70	0,479	1

Pliers set, 2-coloured coating-insulation

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

Contents:

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

1000 V IEC 60900:2004

1000 V IEC 60900:2004



Art. no.	kg	PU
220126	1,000	4-pieces 1

Tool case „Real“ 1000 V

made of plastic, complete with 20 security tools. Dimension: 450 x 340 x 100 mm.

Contents:

- 2C-VDE electrician's screwdrivers 2,5 x 75, 4 x 100, 6,5 x 150, 8 x 175
- 2C-VDE cross slotted screwdrivers PH, size 0, 1, 2
- 2C-VDE socket wrenches 5, 8, 10, 13 mm
- VDE combination pliers 205 mm
- VDE side cutters 185 mm
- VDE telephone pliers, straight 200 mm
- VDE wire stripping pliers 160 mm
- VDE flat nose pliers 160 mm
- VDE round nose pliers 160 mm
- Cable knife
- Cable stripping knife
- 2-pole voltage tester

1000 V IEC 60900:2004

1000 V IEC 60900:2004



Art. no.	kg	PU
220148	4,300	20-pieces 1



VDE pliers, coating-insulated, head insulated 1000 V

Combination pliers DIN ISO 5244 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210263	185	0,306	1
210264	205	0,372	1

Side cutters DIN ISO 5749 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210301	160	0,270	1
210302	180	0,309	1

Long chain nose pliers DIN ISO 5754 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL		kg	PU
210266	160	straight	0,182	1
210267	200	straight	0,236	1
210297	160	45° angled nose	0,228	1

Plan grip pliers 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210298	200	0,215	1

Short flat nose pliers DIN ISO 5745 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210299	160	0,216	1

Long chain nose pliers DIN ISO 5745 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210300	160	0,191	1

Wire stripping pliers DIN 5232 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
210265	160	0,180	1



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Cable cutters, stripping pliers 1000 V

Cable cutter 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	∅	mm ²	kg	PU
200127	160	15	50	0,289	1

Cable cutter 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	∅	mm ²	kg	PU
200120	215	20	70	0,403	1

Double edged cable cutter 1000 V

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 IEC 60900:2004



Art. no.	TL	∅	mm ²	kg	PU
200128	200	20	50	0,382	1

Cable cutter 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	∅	mm ²	kg	PU
200129	240	15	50	0,484	1

Stripping pliers 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	∅	kg	PU
200149	200	26-52	0,739	1

Cable sheath cutter 1000 V

for removing all insulating layers from cables with diameters as of 25 mm

- Replaceable dual blade
- Cutting depth can be set
- Suitable for lengthwise and circular cuts

⚠ 1000 V IEC 60900:2004



Art. no.	∅	kg	PU
110561	25	0,250	1
110569	Replacement blade	0,040	1

Allround soft-grip scissors VDE

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

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



⚠ 1000 V IEC 60900:2004



Art. no.	TL	mm ²	kg	PU
200189	160	25	0,083	1
200191	160	50	0,082	1

VDE ratchet cable cutter with cover 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	mm ²	kg	PU
200109	290	240	1,308	1

Cable cutters 1000 V

Cable cutters 1000 V

- For cutting Cu/Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Hardened blades with precision grinding
- Dual lever ensures easy cutting
- Adjustable screw joint
- Blade head in chrome vanadium steel, forged and oil-hardened

⚠ 1000 V IEC 60900:2004



Art. no.	TL	Ø	mm ²	kg	PU
200110	600	26	150	2,327	1
200141	700	33	185	3,292	1

Cable cutter 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	Ø	mm ²	kg	PU
200123	500	26	150	1,389	1

Wire rope and cable cutter 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	Ø	mm ²	kg	PU
200081	700	10	80	2,880	1
200081/MK	Spare cutting head			0,350	1

Wire rope and cable cutter 1000 V

without transmission, blades of high quality special steel, forged, replaceable, opening 20 mm, insulated. Working range: steel-alu-rope up to 120 mm², copper- and alu-cable

⚠ 1000 V IEC 60900:2004



Art. no.	TL	Ø	mm ²	kg	PU
200130	600	20	120	2,348	1
200132	Spare cutting head			0,340	1

Ratchet cable cutter 1000 V

Two-handed cutter with dual bearing offset mechanism, almost break-proof meshing of rotating blade and tooth blade, separates multiple and fine-wired copper and aluminium cables up to a diameter of 62 mm or 80 mm, but also separates cables with thin steel sheet sleeve or steel sheet armouring in the outer part of the cable, not for hardened steel

⚠ 1000 V IEC 60900:2004



Art. no.	Ø	mm ²	kg	PU
200193	62	840	2,200	1
200195	80	1000	3,150	1

Ratchet cable cutter 1000 V

Extremely durable special steel, single-handed operation, stepped cutting in gradation-free cut for copper and aluminium cable

⚠ 1000 V IEC 60900:2004



Art. no.	Ø	mm ²	kg	PU
200198	52	400	0,942	1

Hacksaw frames 1000 V

Hacksaw frame 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	Sbl.	kg	PU
110558	200	150	0,248	1

Hacksaw frame 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	Sbl.	strength	kg	PU
110559	350	300	18 x 8	0,732	1

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VDE cable knives 1000 V

Cable knife VDE

With a straight, strong blade, handles made from tough elastic, impact proof plastic, with blade guard



1000 V IEC 60900:2004



Art. no.	BL	kg	PU
200000	50	0,110	1

Cable knife VDE

With a hook-shaped blade, handles made from tough elastic, impact proof plastic, with blade guard, thumb recess at the front and finger hook at the end of the handle. **Application:** Round cable



1000 V IEC 60900:2004



Art. no.	BL	kg	PU
200002	35	0,093	1

Cable knife VDE

With a hook-shaped insulated blade, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Large round cables



1000 V IEC 60900:2004



Art. no.	BL	kg	PU
200003	35	0,074	1

Cable knife VDE

With a curved blade, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Sector cable



1000 V IEC 60900:2004



Art. no.	BL	kg	PU
200004	35	0,087	1

Cable knife VDE

With a straight, partially-insulated, strong blade, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** To prevent short circuiting



1000 V IEC 60900:2004



Art. no.	BL	kg	PU
200005	40	0,106	1

Cable knife VDE with sliding block

With a hook blade for slicing open and removing the sleeve from wet-room cables, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Wet-room cables, no damage to conductor insulation thanks to sliding block



1000 V IEC 60900:2004



Art. no.	BL	kg	PU
200007	50	0,120	1

Cable stripping knife VDE

With a straight, strong blade, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Rubberised insulation types



1000 V IEC 60900:2004



Art. no.	BL	kg	PU
200009	50	0,094	1

Cable knife VDE

With a straight, partially-insulated, strong blade, handles made from tough elastic, impact proof plastic, replaceable blades, fixed blade guard.

Application: To prevent short circuiting



1000 V IEC 60900:2004



Art. no.	BL	kg	PU
201010	50	0,067	1
201012	replacement blades, 4-pcs.	0,087	1

Cable stripping knife VDE

Blade with a slim, straight blade for fine tasks, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Phases



1000 V IEC 60900:2004



Art. no.	BL	kg	PU
200013	50	0,094	1

Voltage tester "Profi LCD plus"

Two-pole voltage tester with LED display. An automatic switch-off function prevents rapid discharge of the batteries. The LC display is particularly professional. This eases the display of phase and phase sequence for all service or installation engineers. As of a voltage of 35V AC/DC an acoustic signal sounds to signalise a voltage which is life-threatening. The switchable load per switch prevents accidental triggering of the residual current circuit breaker ensuring that the protective conductor can be measured. The robust construction form and the dust and water-tight housing ensure a long life, even when used on a daily basis. The test tip can be protected by fitting the cap which is connected directly to the unit.

Advantages:

- Display of direct and alternating currents of 6 to 1000 Volts
- Single-pole phase check
- Dual-pole phase sequence check
- Throughput check to 150 Ohm (acoustic)
- Resistance measurement up to 2000 Ohm
- Diode testing
- Data-hold function
- Display illumination
- Residual current circuit breaker/RCD test using two buttons
- LED torch (white)
- Unscrewable 4 mm test tip adapter
- Automatic power off function

Technical data for Profi LCD Plus

Display: Optical, 3 1/2 digit, LCD
 Operating panel: Finger contact, residual current circuit breaker/RCD button, ON/OFF button, D-H button
 Measuring range: Automatic measurement range selection
 Voltage range: 6 - 1000 V AC/DC, 0 - 400 Hz
 Resistance test: 0 - 2000 Ω
 Throughput check: 0 - 150 Ω with acoustic signal
 Phase display: > 100 V AC
 Switchable load: Is ~ 30 mA ED(DT) = 30 sec.
 Power supply: 2 x 1.5 V
 Over-voltage category: CAT IV 1000 V
 Dimensions: 238 x 70 x 30 mm
 Protection class: IP 65
 Weight: 200 g
 Test: TÜV/GS tested and approved IEC/EN 61243-3 (DIN VDE 0682-401)
 Scope of delivery: 1 x Operating instructions
 2x Batteries of type AAA Micro
 Guarantee: 3 years



Art. no.	TMA	kg	PU
103822	6-1000	0,264	1

Voltage tester "Profi LED plus"

Two-pole voltage tester with LED display. The high quality mix of materials ranging from the water-tight housing and the rubberised handle area underlines the professional appearance. The display field is protected by a break-resistant plastic panel. The robust construction form and the dust and water-tight housing ensure a long life, even when used on a daily basis. The test tip can be protected by fitting the cap which is connected directly to the unit. The use of LED's for all optical displays also ensures a high level of protection against failure. As of a voltage of 35V AC/DC an acoustic signal sounds to signalise a voltage which is life-threatening. The switchable load per switch prevents accidental triggering of the residual current circuit breaker ensuring that the protective conductor can be measured. An acoustic signal sounds with a throughput check of 0 to 500 kOhm.

Advantages:

- Display of direct and alternating currents of 6 to 1000 Volts
- Single-pole phase check
- Dual-pole phase sequence check
- Throughput check to 500 kOhm (acoustic/optic)
- Residual current circuit breaker/RCD test using two buttons
- LED torch (white)
- Unscrewable 4 mm test tip adapter

Technical data for Profi LED Plus

Display: Optical, 13 LEDs
 Operating panel: Finger contact/Residual current circuit breaker/RCD button
 Measuring range: Automatic measurement range selection
 Voltage range: 6 - 1000 V AC/DC, 0 - 400 Hz
 Throughput check: 0 - 500 kΩ with acoustic signal
 Phase display: > 100 V AC
 Switchable load: Is ~ 30 mA ED(DT) = 30 sec.
 Power supply: 2 x 1.5 V
 Over-voltage category: CAT IV 1000 V
 Dimensions: 238 x 70 x 30 mm
 Protection class: IP 65
 Weight: 200 g
 Test: TÜV/GS tested and approved IEC/EN 61243-3 (DIN VDE 0682-401)
 Scope of delivery: 1 x Operating instructions
 2x Batteries of type AAA Micro
 Guarantee: 3 years



Art. no.	TMA	kg	PU
103820	6-1000	0,264	1

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Voltage tester "Basic +"

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

Specifications:

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



Art. no.	TMA	kg	PU
103800	6-400	0,097	1

HAUPA "Multi Clamp" digital miniature clamp transducer AC/DC 600V

HAUPA "Multi Clamp" - digital miniature clamp transducer AC/DC 600 V. Digital miniature clamp transducer with LCD-Display and a bargraph index. The manual or automatic working range option, as well as the background lighting, allow a multifunctional and safe working. The included plastic case protect the equipment, also during transport.

Specifications:

- voltage range DC: 400/600 V $\pm 1\%$
- voltage range AC: 400/600 V $\pm 1\%$
- current AC: < 400 A $\pm 2\%$
- clamp diameter max. 28 mm
- conductivity < 400 $\pm 1\%$
- automatic test range selector
- datahold Function
- background lighting
- Including: plastic bag, measurement connection, battery
- approved and certificated TÜV/GS IEC/EN 61010-1
- 3 years warranty



Art. no.	kg	PU
103810	0,426	1

HAUPA "Multi Check" digital high-capacity multimeter

The HAUPA digital multimeter is a multimeter with a battery test function. Its auto range function eliminates the need for irritating switching. Its background illumination can be manually adjusted. Also included is the auto-power-off function and a low battery voltage indicator. During the battery test, the batteries under test are loaded so that an exact test result can be made. The embedded holster with foldable stand makes it easy to use in difficult surroundings. The temperature measuring range up to 1000°C/1800°F and the hFE test for transistors rounds the spectrum of the high-capacity multimeter.

Modern design, the latest technology plus an extended functional range, break-proof ABS housing and simple operation enable universal use in both industry and trade, even under the toughest of conditions. The integrated LED torch and the incorporated non-contact voltage sensor characterise the Multi Check and increase the safety of the user.

Your advantages:

- | 3 year manufacturer's guarantee
- | TÜV/GS tested and approved
- | IEC/EN 61010-1 (DIN VDE 0411)

Technical data Multi Check

DC voltage	200mV	$\pm 0,5\%$, +3digits
	2, 20, 200, 400V	$\pm 0,8\%$, +5digits
AC voltage	2, 20V	$\pm 1,5\%$, +5digits
	200, 400V	$\pm 1,5\%$, +5digits
DC power	200 μ A, 2000 μ A	$\pm 1,0\%$, +3digits
	4 A	$\pm 1,2\%$, +5digits
AC power	200 μ A, 2000 μ A	$\pm 1,3\%$, +5digits
	4 A	$\pm 1,5\%$, +8digits
Resistance	200 Ω $\pm 1,0\%$,	$\pm 1,0\%$, +5digits
	2k, 20k, 200k Ω $\pm 1,0\%$,	$\pm 1,0\%$, +5digits
	2M Ω $\pm 1,0\%$,	$\pm 1,0\%$, +5digits
	20M Ω	$\pm 1,8\%$, +5digits

Diode test:	Test power 0.6 mA Idle voltage type 1.5 V
Throughput test:	Signal sounds with resistance of <50 Ω
No-contact voltage test:	100 - 600 V AC
Maximum input voltage:	400 V AC/DC
Input impedance:	>7.5 M Ω , type 10 M Ω (ACV & DCV)

Alternating current bandwidth:	50 to 400 Hz
Automatic power off function:	15 minutes
Overvoltage protection:	CAT III 300 V
Fuses:	μ A, mA range 0.2A/400V fl ink
	4A range 4 A/400 V fl ink
Voltage supply:	2 x 1.5 V
Operating temperature range:	0° to +40°C (32° to 104°F)
Storage temperature range:	-10° to +50°C (14° to 122°F)
LED torch:	\varnothing 5 mm white high-performance LED
TÜV / GS:	IEC/EN 61010-1

Dimensions:	140 x 70 x 35 mm
Weight:	250g including batteries
Scope of delivery:	1x Operating instructions 1x Measuring cable 1x Carry bag 2x batteries 1.5V AAA, LR03

Guarantee: 3 years



Art. no.	kg	PU
103812	0,433	1

Circuit tester "Control"

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

Specifications:

- optical continuity test low-ohm (0 - 20 Ω)
- acoustical continuity test high-ohm (0 - 250 Ω)
- high efficient LED torch lamp
- contactless voltage detector
- phase detector
- IP44 shower water proof
- CAT III 1000 V
- approved and certificated TÜV/GS IEC/EN 61010-1
- 3 years warranty



Art. no.	TMA	TL	kg	PU
100666			0,139	1

Voltage testers VDE/GS

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



Art. no.	TMA	TL	kg	PU
100700	125-250	190	0,036	1

Voltage tester "Basic"

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



Art. no.	TMA	TL	kg	PU
102075	125-250	190	0,035	1

Voltage tester "TestPen"

Non-contact voltage testing above 12V AC with integrated high-power LED torch (Light duration up to 60 hours - per set of batteries). The TestPen is able to detect live wires using the switching circuit integrated in the probe.

Specifications:

- voltage range: 12 - 1000V AC
- power supply: 2 x 1.5 V, type AAA Micro
- type of protection: IP 44
- overvoltage category: CAT III 1000V
- IEC/EN 61010-1 (DIN VDE 0411)
- 3 years warranty



Art. no.	TMA	TL	kg	PU
103814	12-1000	140	0,190	1

Voltage tester "TestPen Basic"

Contact-free voltage test from 110 Volt AC. The "TestPen Basic" is able to detect live cables using the tip that is integrated in the switching circuit. If an alternating voltage > 110 Volt AC is detected, the white cap illuminates in red. Current flow is not necessary!

Specifications:

- Voltage range: 110 - 1000 V AC
- Power supply: 2 x 1,5 V Typ AAA Micro
- Protection category: IP 44
- Excess voltage category: CAT III 1000V
- IEC/EN 61010-1 (DIN VDE 0411)
- 3 years guarantee



Art. no.	TMA	TL	kg	PU
103816	110-1000	140	0,190	1

Infrared thermometer

Infrared thermometer

The intended use includes the contact-free measurement of temperatures between -20 to +380°C. As power supply, only a 9V battery of the type 006P, IEC6F22, NEDA 1604 or one of the same type may be used. The thermometer may only be used in a dry environment and contact with moisture must be avoided.

Specifications:

- Temperature range: -20 ~ +380°C (-4 ~ 716°F)
- Response time: less than 1 second
- Distance from measuring point ratio: 8 :1
- Spectral range: 5 ~ 14µm
- Emission ratio: 0.95 hard
- Temperature resolution: 0.1°C (0.1°F)
- Laser: 1mW, wave length 630 ~ 670nm, class II
- Working temperature: 0 ~ +50°C (32 ~ 122°F)
- Storage temperature: -20 ~ +65°C (-4 ~ 149°F)
- Air humidity: 10% ~ 90%, non-condensing
- Power supply: 9V battery
- Product size: 16.5 cm x 9 cm x 4 cm
- Weight: 150 g (including battery)
- 3 years guarantee



Art. no.	kg	PU
103818	0,193	1

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Allen keys, spanners 1000 V

T-Handle socket wrenches 1000 V

chrome vanadium steel, full insulated, for hexagon nuts, DIN 7440, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	BL	handle	kg	PU
110000	10	200	160	0,300	1
110002	11	200	160	0,315	1
110004	12	200	160	0,320	1
110006	13	200	160	0,320	1
110008	14	200	160	0,426	1
110010	17	200	160	0,401	1
110012	19	200	160	0,430	1
110022	11	300	160	0,429	1
110024	12	300	160	0,375	1
110026	13	300	160	0,380	1
110028	14	300	160	0,385	1
110030	17	300	160	0,534	1
110032	19	300	160	0,556	1
110034	22	300	160	0,662	1
110036	24	300	160	0,990	1

Cross type socket wrenches 1000 V

chrome vanadium steel, no contact with steel insert, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	BL	kg	PU
110070	10-11-14-17	200	0,451	1
110074	11-12-13-17	200	0,225	1
110076	10-13-14-17	200	0,455	1
110078	11-13-14-17	200	0,449	1
110080	13-17-19-22	200	0,502	1

Counter hold spanners 1000 V

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

1000 V IEC 60900:2004



Art. no.	WS	TL	kg	PU
110081	10	200	0,118	1
110083	12	200	0,120	1
110084	13	200	0,140	1
110085	14	250	0,150	1
110087	16	260	0,249	1
110089	17	270	0,255	1
110091	18	265	0,250	1
110093	19	270	0,275	1
110095	20	275	0,300	1
110097	22	275	0,300	1
110099	24	270	0,350	1

Right angle allen keys 1000 V

chrome vanadium steel, for hexagon socket screws, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	kg	PU
110042	3	0,016	1
110044	4	0,029	1
110046	5	0,045	1
110048	6	0,051	1
110050	8	0,103	1
110052	10	0,220	1
110054	12	0,352	1

T-handle allen keys 1000 V

chrome vanadium steel, for screws with hexagon inserts, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	kg	PU
110060	5	0,222	1
110062	6	0,227	1
110064	8	0,224	1

Single ended spanners 1000 V

chrome vanadium steel, full insulated, offset at 15°, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	TL	strength	kg	PU
110260	6	75	3	0,021	1
110262	7	80	3,5	0,020	1
110264	8	85	3,5	0,032	1
110266	9	100	4	0,035	1
110268	10	120	5	0,035	1
110270	11	130	5,5	0,044	1
110272	12	140	5,5	0,064	1
110274	13	155	6	0,061	1
110276	14	170	6	0,084	1
110278	17	185	6,5	0,121	1
110280	19	210	7,5	0,140	1
110282	22	230	8,5	0,215	1
110284	24	250	9,5	0,242	1
110286	27	290	11,5	0,338	1
110288	30	345	13	0,390	1
110290	32	350	15	0,503	1

Single ended tool set acc. to VDE 1000 V

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

Populated with:

- Size of key 10, 11, 12, 13, 14, 17, 19, 22



1000 V IEC 60900:2004



Art. no.		empty	kg	PU
220017	8-pieces	220002	1,181	1

Ring spanners 1000 V

chrome vanadium steel, full insulated, offset at 75°, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	TL	kg	PU
110300	6	140	0,061	1
110302	7	140	0,066	1
110304	8	150	0,084	1
110306	9	155	0,066	1
110308	10	160	0,092	1
110310	11	170	0,089	1
110312	12	180	0,130	1
110314	13	195	0,132	1
110316	14	205	0,147	1
110318	17	240	0,233	1
110320	19	260	0,236	1
110322	22	280	0,345	1
110324	24	280	0,357	1



Ratchet ring spanners 1000 V

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

1000 V IEC 60900:2004



72 sprockets

Art. no.	WS	kg	PU
110870	8	0,032	1
110872	9	0,040	1
110874	10	0,050	1
110876	11	0,059	1
110878	12	0,065	1
110880	13	0,076	1
110882	14	0,086	1
110884	15	0,105	1
110886	16	0,130	1
110888	17	0,161	1
110890	18	0,179	1
110892	19	0,215	1

Adjustable wrenches to DIN 3117 A 1000 V

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

1000 V IEC 60900:2004



Art. no.	WS max.	TL	kg	PU
110555	26	200	0,325	1
110556	31	250	0,512	1
110557	36	300	0,809	1

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Reversible ratchet 1000 V

1/4"

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



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220577	1/4"	150	0,145	1

Fittings for hexagon socket screws 1000 V

1/4"

1/4" square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
220591	3	1/4"	55	0,016	1
220592	4	1/4"	55	0,012	1
220593	5	1/4"	55	0,012	1
220594	6	1/4"	55	0,024	1

Socket T-wrench 1000 V

1/4"

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



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220578	1/4"	125	0,085	1

Extensions 1000 V

1/4"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220579	1/4"	100	0,050	1
220580	1/4"	150	0,070	1

Hexagon sockets 1000 V

1/4"

1/4" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
220581	5	1/4"	40	0,011	1
220582	6	1/4"	40	0,011	1
220583	7	1/4"	40	0,012	1
220584	8	1/4"	40	0,013	1
220585	9	1/4"	40	0,014	1
220586	10	1/4"	40	0,014	1
220587	11	1/4"	40	0,017	1
220588	12	1/4"	40	0,018	1
220589	13	1/4"	40	0,021	1
220590	14	1/4"	40	0,023	1

Tool case 1000 V

1/4"

made of plastic, complete with 1/4" tools. The plastic material used for socket sets is guaranteed to pass -40°C impact tests. This guarantee that the insulation value will not be compromised due to impact. Dimension: 286 x 255 x 54 mm.

Contents:

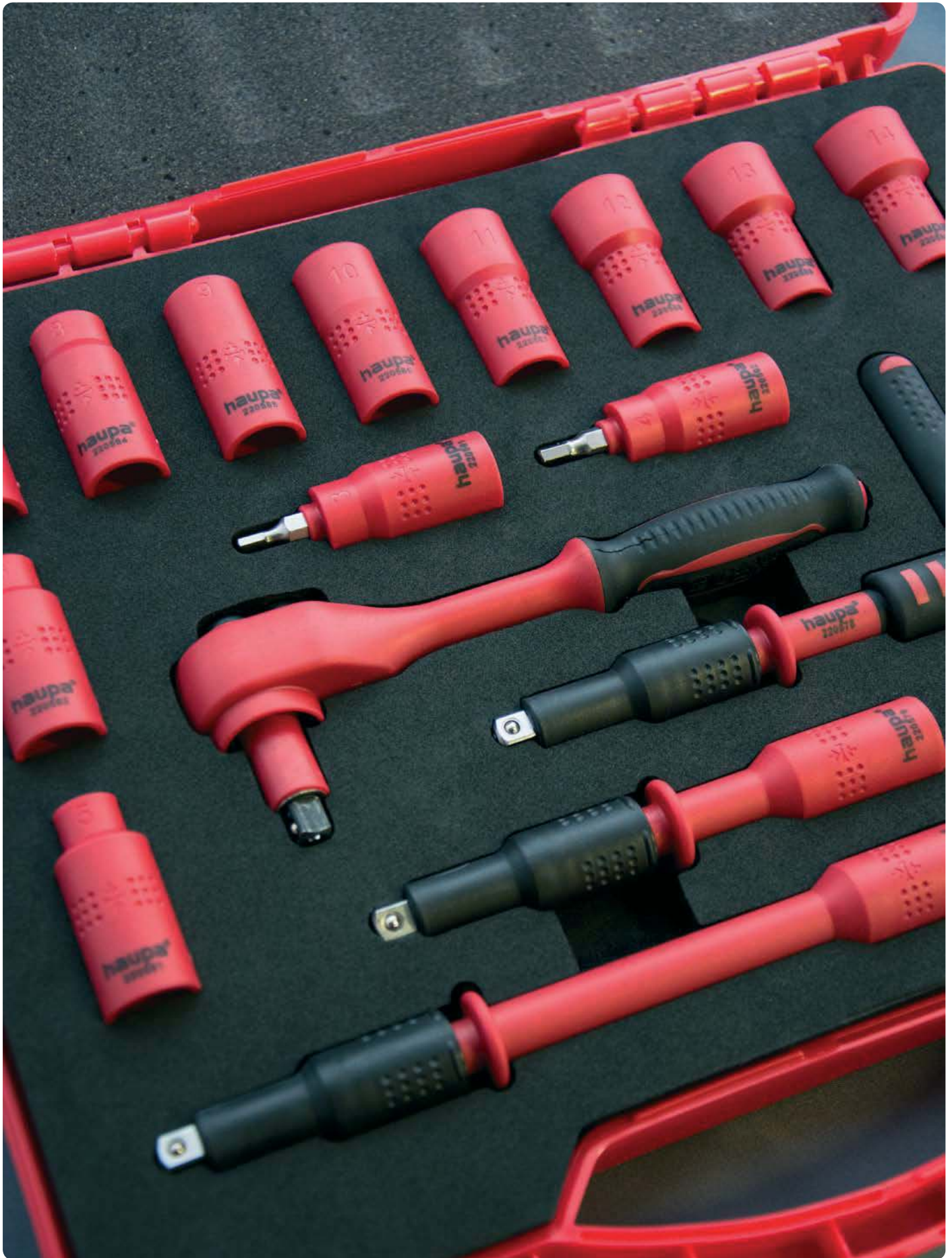
- Reversible ratchet 150 mm, 1/4"
- T-slip-on-keys 125 mm, 1/4"
- Extension 100 and 150 mm, 1/4"
- Sockets 1/4", 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm
- Dies for hexagon screws 1/4", 3, 4, 5, 6 mm



1000 V IEC 60900:2004



Art. no.	drive	kg	PU
220576	18-pieces 1/4"	1,250	1



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Reversible ratchet 1000 V

1/4"

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

△ 1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110810	1/4"	135	0,122	1

Torque wrench 1000 V

1/4"

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

△ 1000 V IEC 60900:2004



Art. no.	drive	torque	TL	kg	PU
110812	1/4"	2-12	200	0,250	1
110813	1/4"	5-25	200	0,420	1

Socket T-wrench 1000 V

1/4"

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

△ 1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110818	1/4"	115	0,156	1

Extensions 1000 V

1/4"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

△ 1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110814	1/4"	75	0,043	1
110816	1/4"	125	0,054	1

Extension 1000 V

1/4"

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

△ 1000 V IEC 60900:2004



Art. no.	bit adapter	drive	TL	kg	PU
110860	1/4"	1/4"	40	0,023	1

Hexagon sockets 1000 V

1/4"

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

△ 1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
110820	5	1/4"	25	0,012	1
110822	6	1/4"	25	0,012	1
110824	7	1/4"	25	0,014	1
110826	8	1/4"	25	0,011	1
110828	9	1/4"	25	0,016	1
110830	10	1/4"	25	0,014	1
110832	11	1/4"	25	0,020	1
110834	12	1/4"	25	0,021	1
110836	13	1/4"	25	0,021	1
110838	14	1/4"	25	0,034	1

Inserts for hexagon socket screws 1000 V

1/4"

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

△ 1000 V IEC 60900:2004



Art. no.	WS	drive	kg	PU
110840	3	1/4"	0,010	1
110842	4	1/4"	0,014	1
110844	5	1/4"	0,014	1
110846	6	1/4"	0,015	1
110848	8	1/4"	0,021	1

Handles with bit adapter 1000 V

1/4"

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

△ 1000 V IEC 60900:2004



Art. no.	bit adapter	drive	TL	kg	PU
110864	1/4"	1/4"	120	0,160	1
110866	1/4"	1/4"	160	0,248	1
110868	1/4"	1/4"	250	0,310	1

Tool case for household connections 1000 V

1/4"

Plastic case with foam insert, with 1/4" insert tools.
Dimensions: 450 x 340 x 100 mm.

Contents:

- 1 torque wrench 1/4" 5 - 25 Nm
- 3 extensions 1/4" 75 - 100 - 150 mm
- 2 bit holders 1/4" DIN 3126/FORM C 6,3
- 5 inserts 1/4" 6, 8, 10, 13, 14
- 10 hexagonal bits 5, 6, 8
- Slots 4, 5.5, 6.5
- PZ/FL 1, 2
- PH 1, 2

1000 V IEC 60900:2004



Art. no.	drive	kg	PU
110869	21-pieces 1/4"	1,000	1

Tool case 1000 V

1/4"

Plastic case with foam insert, with 1/4" insert tools.
Dimensions: 450 x 340 x 100 mm.

Contents:

- 1 ratchet 1/4"
- 1 bit holder 1/4"
- 1 T-fitting 1/4"
- 4 extensions 1/4"
- 10 inserts 1/4", 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
- 5 hexagonal inserts 1/4" 3, 4, 5, 6, 8

1000 V IEC 60900:2004



Art. no.	drive	kg	PU
110871	22-pieces 1/4"	1,600	1

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Reversible ratchet 1000 V

3/8"

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



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220410	3/8"	200	0,300	1

Fittings for hexagon socket screws 1000 V

3/8"

3/8" square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
220434	4	3/8"	60,0	0,036	1
220436	5	3/8"	60,0	0,040	1
220438	6	3/8"	60,0	0,041	1
220440	8	3/8"	60,0	0,042	1

Socket T-wrench 1000 V

3/8"

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



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220412	3/8"	200	0,241	1

Extensions 1000 V

3/8"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220414	3/8"	125	0,150	1
220416	3/8"	250	0,250	1

Hexagon sockets 1000 V

3/8"

3/8" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
220418	8	3/8"	44,5	0,027	1
220420	10	3/8"	44,5	0,027	1
220422	12	3/8"	44,5	0,029	1
220424	13	3/8"	44,5	0,032	1
220426	14	3/8"	44,5	0,035	1
220428	17	3/8"	44,5	0,047	1
220430	19	3/8"	46,0	0,051	1
220432	22	3/8"	46,0	0,063	1

Tool case 1000 V

3/8"

made of plastic, complete with 3/8" tools. The plastic material used for socket sets is guaranteed to pass -40°C impact tests. This guarantee that the insulation value will not be compromised due to impact. Dimension: 286 x 255 x 54 mm.

Contents:

- Reversible ratchet 200 mm, 3/8"
- T-slip-on-keys 200 mm, 3/8"
- Extension 150 and 250 mm, 3/8"
- Sockets 3/8", 8, 10, 12, 13, 14, 17, 19, 22 mm
- Dies for hexagon screws 3/8", 4, 5, 6, 8 mm



1000 V IEC 60900:2004



Art. no.	drive	kg	PU
220402	16-pieces 3/8"	2,500	1



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Reversible ratchet 1000 V

3/8"

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



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110331/EN	3/8"	190	0,402	1

Locked torque wrench 1000 V

3/8"

reversible ratchet system, **fixed factory-provided valve**, possible valve between 5-27 Nm, **valve must be indicate before delivery**, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	drive	torque	TL	kg	PU
300310/EN	3/8"	5-27	280	0,951	1

Torque wrenches 1000 V

3/8"

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

1000 V IEC 60900:2004



Art. no.	drive	torque	TL	kg	PU
110055/EN	3/8"	5-25	200	0,350	1
110056/EN	3/8"	5-25	280	0,920	1
110065/EN	3/8"	5-50	370	1,194	1

Torque T key 1000 V

3/8"

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

1000 V IEC 60900:2004



Art. no.	drive	torque	TL	kg	PU
110071	3/8"	12 Nm	150	0,540	1
110073	3/8"	18 Nm	150	0,540	1
110075	3/8"	25 Nm	150	0,540	1

Torque stoppers 1000 V

3/8"

with short extension, locable for all sockets with 3/8" drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	drive	torque	kg	PU
110456/EN	3/8"	-12	0,220	1
110457/EN	3/8"	-18	0,220	1
110458/EN	3/8"	-25	0,224	1

Socket T-wrench 1000 V

3/8"

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



1000 V IEC 60900:2004



Art. no.	WS	BL	handle	kg	PU
110039/EN	3/8"	200	160	0,369	1

Extensions 1000 V

3/8"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110337/EN	3/8"	125	0,292	1
110335/EN	3/8"	250	0,280	1

Extensions with bit adapter 1000 V

3/8"

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

1000 V IEC 60900:2004



Art. no.	bit adapter	drive	TL	kg	PU
110861	1/4"	3/8"	125	0,137	1

Hexagon sockets 1000 V

3/8"

3/8" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
110363/EN	8	3/8"	40	0,035	1
110364/EN	9	3/8"	40	0,032	1
110365/EN	10	3/8"	40	0,036	1
110366/EN	11	3/8"	40	0,037	1
110367/EN	13	3/8"	40	0,032	1
110368/EN	17	3/8"	40	0,050	1
110369/EN	19	3/8"	40	0,060	1
110371/EN	14	3/8"	40	0,070	1
110700/EN	12	3/8"	40	0,070	1
110702/EN	22	3/8"	40	0,061	1

Hexagon sockets 1000 V, extra long



3/8" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
110710	11	3/8"	125	0,180	1
110712	12	3/8"	125	0,200	1
110713	13	3/8"	125	0,210	1
110714	14	3/8"	125	0,220	1
110715	17	3/8"	125	0,240	1
110716	19	3/8"	125	0,260	1
110717	22	3/8"	125	0,280	1

Fittings for hexagon socket screws 1000 V



3/8" square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
300302/EN	4	3/8"	65	0,068	1
300296/EN	5	3/8"	65	0,065	1
300298/EN	6	3/8"	65	0,068	1
300299/EN	8	3/8"	65	0,070	1
300305/EN	10	3/8"	65	0,082	1

Tool case 1000 V



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

Contents:

- Reversible ratchet 3/8"
- Extension 125 mm, 3/8"
- Extension 250 mm, 3/8"
- T-slip-on-keys 3/8"
- Sockets 3/8" (10, 12, 13, 14, 17, 19, 22, 24 mm)
- Dies for hexagon screws 3/8", 5, 6, 8 mm
- Torque stopper (12 to 25 Nm)
- 2C-VDE screwdriver 3,5 x 100 mm

with locking system



1000 V IEC 60900:2004



Art. no.	drive	kg	PU
220147	3/8"	3,400	1

Tool case 1000 V



made of plastic, complete with 3/8" tools.
Dimension: 400 x 290 x 110 mm.

Contents:

- Reversible ratchet 3/8"
- Extension 125 mm, 3/8"
- Extension 250 mm, 3/8"
- T-slip-on-keys 3/8"
- Sockets 3/8", 8, 10, 13, 17, 19 mm
- Dies for hexagon screws 3/8", 4, 5, 6, 8 mm

without locking system



1000 V IEC 60900:2004



Art. no.	drive	kg	PU
220212	3/8"	2,500	1

Tool case 1000 V



Plastic case with foam insert, with 3/8" insert tools.
Dimensions: 400 x 290 x 110 mm.

Contents: 15-pieces

- 1 torque wrench 3/8" 5-50 Nm
- 2 extensions 3/8" 125/250 mm
- 5 inserts, extra deep in the sizes 10, 13, 14, 17, 19 mm
- 5 inserts for hexagonal screws 3/8" in 4, 5, 6, 8, 10 mm
- Alignment tool for sector-shaped conductors 3/8" in 95-150 mm



1000 V IEC 60900:2004



Art. no.	drive	kg	PU
110873	3/8"	3,870	1

Reversible ratchet 1000 V

1/2"

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



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220450	1/2"	250	0,550	1

Fittings for hexagon socket screws 1000 V

1/2"

1/2" square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
220486	4	1/2"	120,0	0,113	1
220488	5	1/2"	120,0	0,113	1
220490	6	1/2"	120,0	0,113	1
220492	8	1/2"	120,0	0,115	1
220494	10	1/2"	120,0	0,134	1

Socket T-wrench 1000 V

1/2"

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



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220452	1/2"	200	0,330	1

Extensions 1000 V

1/2"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220454	1/2"	125	0,208	1
220456	1/2"	250	0,411	1

Hexagon sockets 1000 V

1/2"

1/2" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
220458	10	1/2"	55,0	0,055	1
220460	11	1/2"	55,0	0,055	1
220462	12	1/2"	55,0	0,058	1
220464	13	1/2"	55,0	0,058	1
220466	14	1/2"	55,0	0,061	1
220468	17	1/2"	55,0	0,069	1
220470	19	1/2"	57,0	0,072	1
220478	22	1/2"	57,0	0,087	1
220480	24	1/2"	57,0	0,095	1
220482	27	1/2"	57,0	0,125	1
220484	32	1/2"	57,0	0,170	1

Tool case 1000 V

1/2"

made of plastic, complete with 1/2" tools. The plastic material used for socket sets is guaranteed to pass -40°C impact tests. This guarantee that the insulation value will not be compromised due to impact. Dimension: 380 x 316 x 61 mm.

Contents:

- Reversible ratchet 250 mm, 1/2"
- T-slip-on-keys 200 mm, 1/2"
- Extension 125 and 250 mm, 1/2"
- Sockets 1/2", 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 32 mm
- Dies for hexagon screws 1/2", 4, 5, 6, 8, 10 mm



1000 V IEC 60900:2004



Art. no.	drive	kg	PU
220404	20-pieces 1/2"	4,000	1

SysCon „VDE-Socket“ 1/2" 1/2"

complete with 1/2" tools. The plastic material used for socket sets is guaranteed to pass -40°C impact tests. This guarantees that the insulation value will not be compromised due to impact.

Contents:

1 220370 ABS plastic box „SysCon S“

- Reversible ratchet 250 mm, 1/2"
- T-slip-on-keys 200 mm, 1/2"
- Extension 125 and 250 mm, 1/2"
- Sockets 1/2", 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 32 mm
- Dies for hexagon screws 1/2", 4, 5, 6, 8, 10 mm



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SysCon



Art. no.		empty	drive	kg	PU
220612	20-pieces	220370	1/2"	7,200	1



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Reversible ratchet 1000 V

1/2"

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



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110332/EN	1/2"	255	0,687	1

Locked torque wrench 1000 V

1/2"

reversible ratchet system, **fixed factory-provided valve**, possible valve between 5-27 Nm, **valve must be indicate before delivery**, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	drive	torque	TL	kg	PU
300312/EN	1/2"	5-27	280	1,052	1

Torque wrenches 1000 V

1/2"

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

1000 V IEC 60900:2004



Art. no.	drive	torque	TL	kg	PU
110058/EN	1/2"	2-50	280	1,034	1
110066/EN	1/2"	5-50	370	1,121	1
110067/EN	1/2"	20-100	460	1,493	1
110068/EN	1/2"	60-220	530	1,300	1

Socket T-wrench 1000 V

1/2"

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

1000 V IEC 60900:2004



Art. no.	WS	BL	handle	kg	PU
110040/EN	12,5	200	160	0,457	1

Extensions 1000 V

1/2"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110336/EN	1/2"	125	0,197	1
110338/EN	1/2"	250	0,389	1

Extensions with bit adapter 1000 V

1/2"

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

1000 V IEC 60900:2004



Art. no.	bit adapter	drive	TL	kg	PU
110862	1/4"	1/2"	250	0,165	1

Hexagon sockets 1000 V

1/2"

1/2" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
110339/EN	8	1/2"	50	0,080	1
110340/EN	10	1/2"	50	0,056	1
110342/EN	11	1/2"	50	0,062	1
110344/EN	12	1/2"	50	0,062	1
110346/EN	13	1/2"	50	0,066	1
110348/EN	14	1/2"	50	0,063	1
110350/EN	17	1/2"	50	0,076	1
110352/EN	19	1/2"	50	0,072	1
110354/EN	22	1/2"	50	0,104	1
110356/EN	24	1/2"	50	0,141	1
110358/EN	27	1/2"	50	0,191	1
110360/EN	30	1/2"	50	0,224	1
110362/EN	32	1/2"	50	0,268	1

Hexagon sockets DIN 7448, 1000 V, 80 mm

1/2"

extra long, 1/2" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
110373/EN	10	1/2"	80	0,085	1
110374/EN	11	1/2"	80	0,110	1
110375/EN	13	1/2"	80	0,123	1
110376/EN	14	1/2"	80	0,119	1
110377/EN	17	1/2"	80	0,157	1
110378/EN	19	1/2"	80	0,168	1
110379/EN	22	1/2"	80	0,230	1

Hexagon sockets, 1000 V, 125 mm

1/2"

extra long, 1/2" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
110346/125	13	1/2"	125	0,250	1
110348/125	14	1/2"	125	0,260	1
110350/125	17	1/2"	125	0,280	1
110352/125	19	1/2"	125	0,295	1
110354/125	22	1/2"	125	0,310	1
110356/125	24	1/2"	125	0,330	1
110358/125	27	1/2"	125	0,350	1
110360/125	30	1/2"	125	0,380	1
110362/125	32	1/2"	125	0,410	1

Hexagon sockets, 1000 V, 250 mm



extra long, 1/2" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
110346/250	13	1/2"	250	0,485	1
110348/250	14	1/2"	250	0,500	1
110350/250	17	1/2"	250	0,530	1
110352/250	19	1/2"	250	0,550	1
110354/250	22	1/2"	250	0,580	1
110356/250	24	1/2"	250	0,605	1
110358/250	27	1/2"	250	0,635	1
110360/250	30	1/2"	250	0,660	1
110362/250	32	1/2"	250	0,670	1

Fittings for hexagon socket screws 1000 V



1/2" square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
300294/EN	4	1/2"	70	0,094	1
300297/EN	5	1/2"	70	0,096	1
300295/EN	6	1/2"	70	0,101	1
300303/EN	8	1/2"	70	0,100	1
300306/EN	10	1/2"	70	0,106	1

Tool case 1000 V



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

Contents:

- Reversible ratchet 1/2"
- Extension 125 mm, 1/2"
- Extension 250 mm, 1/2"
- Slip-on-keys 1/2"
- Hexagon sockets 1/2", 10, 12, 13, 14, 17, 19, 22, 24 mm
- Dies for hexagon screws 1/2", 5, 6, 8 mm
- 2C-VDE screwdriver 3,5 x 100 mm

with locking system



1000 V IEC 60900:2004



Art. no.	drive	kg	PU
220205/EN	1/2"	4,080	1

Tool case „Biber“ 1000 V



made of plastic, complete with 26 security tools.
Dimension: 450 x 340 x 100 mm.

Contents:

- 2C-VDE electrician's screwdrivers 4 x 100, 5,5 x 125, 6,5 x 150, 8 x 175 mm
- VDE combination pliers 205 mm
- VDE side cutters 185 mm
- VDE telephone pliers, straight, 200 mm
- Reversible ratchet 1/2"
- Extension 250 mm, 1/2"
- Hexagon sockets 1/2", 10, 11, 12, 13, 14, 17, 19 mm
- Open end spanners 10, 11, 12, 13, 14, 17, 19 mm
- 2-pole voltage tester
- Cable knife
- Cable stripping knife

with locking system



1000 V IEC 60900:2004



Art. no.	drive	kg	PU
220146	1/2"	5,000	1

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Safety tools

Alignment tool, 3/8" 1000 V

3/8"

3/8" drive, for the alignment of 3 or 4-wire sector conductors, made from impact-resistant plastic



Art. no.	size	kg	PU
110704	95 - 150 mm ²	0,068	1
110705	185 - 240 mm ²	0,088	1

Universal alignment tool

for aligning sector-shaped conductors from 50, 70, 95, 150, 185, and 240 mm²



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Art. no.	kg	PU
110709	0,142	1

Counter holder 1000 V

for the easier handling of screwed connections when assembling coupling sleeves, variably adjustable

1000 V IEC 60900:2004



Art. no.	TL	mm	kg	PU
120101	240	0 - 15	0,280	1
120103	220	15 - 40	0,380	1
120104	300	25 - 50	0,610	1

Plastic wedges

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

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Art. no.	material	TL	width	kg	PU
120102	plastic	22,5	4,5	0,234	1

Wedges

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

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Art. no.	material	TL	width	kg	PU
120100	plastic	20	2,5	0,085	1

Wedges

wood or plastic, dimension: 16.3 x 3.7 mm



Art. no.	size	type	material	kg	PU
120094	1	without	plastic	0,051	1
120097	2	with	plastic	0,074	1
120098	1	without	wood	0,043	1
120099	2	with	wood	0,043	1

Cleaning brushes Safety Line

PVC-pattern

1000 V IEC 60900:2004



Art. no.	TL	width	kg	PU
150036	420	25	0,053	1
150037	420	28	0,061	1
150038	420	50	0,100	1

Electrician's safety levels

nonconducting plastic material, with 2 tubes horizontal and vertical



Art. no.	TL	kg	PU
240057	400	0,188	1
240058	600	0,274	1

PVC hammer 1000 V

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

1000 V IEC 60900:2004



Art. no.	TL	Ø	kg	PU
180295	290	25	0,570	1
180297	290	35	0,825	1

Combined dowel and contact spanners

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



Art. no.	TL	kg	PU
120002	105	0,046	1

Insulated tweezers VDE 1000 V

austenitic steel, PVC-insulated



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Art. no.	TL	kg	PU
211060	130	0,029	1



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Art. no.	TL	kg	PU
211064	145	0,042	1



1000 V IEC 60900:2004



Art. no.	TL	kg	PU
211062	150	0,031	1

Working under tension

1000 V Tool cases



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Classification for tool cases

	Type:
***	ABS
****	ABS+

	Type:
*****	ABSfly
*****	HDPE

Specifications

Type	Art. No.	Description	Dimensions	Colour	Document compartment	Combination lock	Properties
ABS	220031	Tool case „Start up Profi“ empty	470 x 200 x 360	black	yes	yes	<ul style="list-style-type: none"> • Impact-resistant ABS material • Surrounding impact edge protection • High quality metal locks, lockable • Stable and hardened aluminium frame • Ergonomic handle • 3 metal hinges • Including carrying strap • Tested under continuous professional usage situations up to 20 kg
	220023	Trolley „Start up Profi“ empty	470 x 220 x 360	black	yes	yes	
ABS+	220076	VDE-Tool case „Pendant“ empty	460 x 180 x 310	red	yes	yes	<ul style="list-style-type: none"> • Impact-resistant ABS material • Extra wide surrounding impact edge protection • High quality metal locks, lockable • Extra stable and hardened aluminium frame • 3 metal hinges • Particularly stable lid holder • Tested under continuous professional usage situations up to 25 kg
	220068	Tool case „Omega“ empty	460 x 180 x 310	black	yes	yes	
	220038	Tool case „Aktion“ empty	460 x 160 x 310	black	no	no	
	220073	Tool case „Netzwerk“ empty	460 x 160 x 310	black	no	no	
	220042	Tool case „Omega Max“ empty	470 x 200 x 360	black	yes	yes	
	220048	Tool case „Omega Trolley“ empty	470 x 220 x 360	black	yes	yes	
ABSfly	220032	VDE-Tool case „Venus“ empty	460 x 180 x 310	red	yes	yes	<ul style="list-style-type: none"> • Flight-suitable • Extremely impact-resistant ABS-PRO material • Extra wide surrounding impact edge protection • High quality metal die cast locks, lockable • Extremely stable and specially hardened aluminium frame • 3 riveted metal hinges • Particularly stable lid holder • Tested under continuous professional usage situations up to 40 kg
	220034	Tool case „Merkur“ empty	460 x 180 x 310	black	yes	yes	
HDPEfly	220248	HDPE trolley, flight-suitable	470 x 220 x 360	black	yes	no	<ul style="list-style-type: none"> • Flight-suitable and break-proof • Extreme durability thanks to HDPE shell with soft-touch look • Corners additionally reinforced with aluminium • Extra wide surrounding impact edge protection • Locking, extra-long trolley system • Ball-bearing mounted easy running castors • High quality metal die cast locks, lockable • Additional combination lock • Extremely stable and specially hardened aluminium frame • 3 riveted metal hinges • Particularly stable lid holder • Screw-fitted handle and locks • Tested under continuous professional usage situations up to 40 kg



Tool sets 1000 V

VDE security set 1000 V

Bag of imitation leather, for working under tension up to 1000 V. 10-pieces

Contents:

- 2C-VDE electricians screwdrivers 2,5 x 75, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PZ, size 1 + 2
- 2C-VDE combination pliers VDE 185 mm
- 2C-VDE side cutters 185 mm
- Voltage tester "Basic"
- Cable stripping knife, 35 mm



1000 V IEC 60900:2004



Art. no.		empty	kg	PU
220014	10-pieces	220004	1,688	1

VDE/GS - Tool sets 1000 V

in red coloured plastic wallet, 11-pieces.

Contents:

- VDE combination pliers 185 mm
- VDE round nose pliers 160 mm
- VDE side cutters 165 mm
- VDE wire stripping pliers 160 mm
- 2C-VDE electricians screwdrivers 75, 100, 125, 150 mm
- 2C-VDE cross slotted screwdrivers PZ, size 1
- 2C-VDE socket wrench 7 mm
- VDE/GS voltage tester



1000 V IEC 60900:2004



Art. no.		width	height	depth	kg	PU
220130	11-pieces	300	230	50	2,216	1
220016	empty	300	230	50	0,814	1

Tool bag 1000 V

HAUPA Tool bag VDE 1000 V

8 compartments for your tools, reinforced main compartment, steel rivets for high reliable quality. Big front compartment for nails or measurement tape, hammer sleeve, fits up to 135 cm hips, material: extra strong 600D polyester, colour: green, black

Contents:

- 2C combination pliers, 200 mm
- 2C side cutters, 160 mm
- 2C electrician's screwdriver
- 2C cross slotted screwdrivers PH, size 1 and 2
- Voltage tester "Basic"
- Cable knife, 1-piece



1000 V IEC 60900:2004



Art. no.		empty	kg	PU
220211	7-pieces	220105	1,723	1

HAUPA Tool bag 1000 V

Tool bag with inner and outer tool compartments, rubber-reinforced base. Comes complete with 13 tools.

Contents:

- 2C-VDE combinations pliers 185 mm
- 2C-VDE side cutters 165 mm
- 2C-VDE telephone pliers pliers, straight, 200 mm
- 2C-VDE wire stripping pliers 160 mm
- 2C-VDE-screwdriver set, 6 electrician's screwdrivers
- Spanner for switch-cabinets
- Cable knife
- Voltagetester "Basic"



1000 V IEC 60900:2004



Art. no.		empty	kg	PU
220510	13-pieces	220061	3,919	1

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Tool belts 1000 V

Tool belt „VDE Plus“ 1000 V

10 compartments to organize your tools, hammer sleeve and tapeholder belt loop for easy attachment to belt, materials: extra strong 600D polyester, colour: black/green

Contents:

- 2C-VDE-Cable cutters 200 mm
- 2C-VDE-Side cutters 165 mm
- 2C-VDE-Combination pliers 185 mm
- 2C-Replaceable blade system „Vario“ 1000 V, 10 pcs.
- VDE-Cable cutter straight blade, 50 mm
- Voltage tester „Profi“ 12-690 V
- Test Pen „Basic“



1000 V IEC 60900:2004



Art. no.		empty	kg	PU
220281	16-pieces	220224	2,740	1

Tool belt „VDE“ 1000 V

10 compartments to organize your tools, hammer sleeve and tapeholder belt loop for easy attachment to belt, materials: extra strong 600D polyester, colour: black/green

Contents:

- 2C-VDE-Side cutters 165 mm
- 2C-VDE-Cable cutters 160 mm
- 2C-VDE-Combination pliers 185 mm
- 2C-VDE-Electricians' screwdriver 5,5x125 mm
- 2C-VDE-Cross slotted screwdrivers PH 2
- 2C-VDE-Electricians' screwdriver 3x100 mm
- VDE-Cable cutter straight blade, 50 mm
- Test Pen „Basic“



1000 V IEC 60900:2004



Art. no.		empty	kg	PU
220282	8-pieces	220224	2,020	1

Backpacks 1000 V

Backpack „VDE“ 1000 V

Tool backpack not only for the trainee, base shell rubber reinforced, double cross seam for high load.

Contents:

- 2C-VDE-Electricians' screwdriver set, 6 pcs.
- 2C-VDE-Cable cutters 200 mm
- 2C-VDE-Telephone pliers straight, 200 mm
- 2C-VDE-Combination pliers 185 mm
- 2C-VDE-Side cutters 165 mm



1000 V IEC 60900:2004



Art. no.		empty	kg	PU
220279	10-pieces	220275	4,200	1

Backpack „VDE Plus“ 1000 V

Tool backpack not only for the trainee, base shell rubber reinforced, double cross seam for high load.

Contents:

- 2C-VDE-Cable cutters 200 mm
- 2C-VDE-Telephone pliers straight, 200 mm
- 2C-VDE-Wire stripping pliers 160 mm
- VDE-Cable knife, straight blade, 50 mm
- 2C-VDE-Combination pliers 185 mm
- 2C-VDE-Side cutters 165 mm
- 2C-Replaceable blade system „Vario“, 1000 V, 10 pcs.
- Voltage tester „Profi“ 12-690 V
- Test Pen „Basic“
- NH-safety fuse grip
- Electricians' protection helmet
- Safety-face mask



1000 V IEC 60900:2004



Art. no.		empty	kg	PU
220277	21-pieces	220275	6,540	1

Tool cases 1000 V

Tool case „Delux“ 1000 V

of signal-red leather, with 54 safety tools, case 220142 containing:

Contents:

- 2C-VDE electrician's screwdriver 2,5 x 75, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross slotted screwdriver PH, size 1 + 2
- VDE telephone pliers, straight, 200 mm
- VDE telephone pliers, bent, 200 mm
- VDE combination pliers 185 mm
- VDE side cutters 165 mm
- VDE wire stripping pliers 160 mm
- Socket wrenches 5,5, 7,0, 8,0, 10,0 mm
- Voltage tester „Profi“
- Hexagon sockets 10, 11, 12, 13, 14, 15, 16
- Reversible ratchet 1/2"
- T-sliding handle 1/2"
- Open end spanners 10, 12, 13, 19, 22, 24
- Cable knife
- Cable scissor 200 mm
- Slip-on bushes 5-pieces No. 1, 10 mm
- Slip-on bushes 5-pieces No. 2, 10 mm
- Slip-on bushes 5-pieces No. 3, 10 mm
- Plastic pliers 180 mm
- Plastic clamp
- Covering tape, grey
- Covering tape, red
- Safety grip
- Gloves size 9



1000 V IEC 60900:2004



Art. no.		empty	kg	PU
220135	54-pieces	220142	9,460	1

Tool case „Rotor“ 1000 V

of signal-red leather, with 46 safety tools, case 220142 containing:

Contents:

- VDE combination pliers 185 mm
- VDE side cutters 165 mm
- VDE wire stripping pliers
- VDE round nose pliers 160 mm
- Plastic clamp
- Gloves, size 10
- 2C-VDE electrician's screwdrivers 2,5 x 75, 4 x 100 mm
- Safety grip
- Socket wrenches, size 6, 7, 8, 9
- Rubber towels 1000 mm
- 5 slip-on-bushes size 1, 10 mm
- 5 slip-on-bushes size 2, 10 mm
- 5 slip-on-bushes size 3, 10 mm
- 5 slip-on-bushes 10 mm
- 5 slip-on-bushes 20 mm
- 5 slip-on-bushes 30 mm
- Cable knives
- Voltage tester 150 - 250 V



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Art. no.		empty	kg	PU
220140	46-pieces	220142	6,400	1

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Tool cases 1000 V

Tool case „Profi VDE“ 1000 V

Hard-top case, black, 2 tool kits, document pocket with hook-and-loop fixing, combination lock, bottom half of case equipped with variable partitions, shoulder strap, 35 tools.

Contents:

- VDE long chain nose pliers, straight, 200 mm
- VDE combination pliers 185 mm
- VDE heavy duty side cutters 200 mm
- VDE wire stripping pliers 160 mm
- VDE cable cutter, max. 15 mm
- Cable knives, 1000 V, 50 mm
- Finger gloves, size 9
- 2C-VDE electrician's screwdrivers 2,5 x 75, 3 x 100, 6,5 x 150, 8 x 175 mm
- 2C-VDE socket wrenches, size 5,5, 7, 8, 10
- 2C-VDE cross slotted screwdrivers, PH 1 + 2
- NH-safety fuse grip
- Rubber towels, 1000 x 1000 x 1,6 mm
- Plastic clips, 160 mm
- Slip on bushes, No. 1, 2, 3 (each 5 x)
- Self adhesive PVC tape, red, 10 m
- Heat protection gloves
- Safety glasses



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ABS



Art. no.		empty	kg	PU
220232	35-pieces	220031	12,920	1

Service trolley for hybrid vehicles 1000 V

hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, case art. 220023.

Contents:

- 2C-VDE electrician's screwdrivers 2,5x75, 3x100, 3,5x100, 4x100 mm
- 2C-VDE cross slotted screwdrivers PH 1, 2, 3
- 2C-VDE cross slotted screwdrivers S-Tx 20, 25, 30
- Hexagon sockets VDE 3/8" WS 8, 9, 10, 12, 13, 14, 17, 19, 22
- Extension 3/8" VDE, 250 mm
- Reversible ratchet VDE 3/8"
- Water pump pliers VDE 240 mm
- Cable cutters VDE 230 mm
- Side heavy duty side cutters VDE 205 mm
- Side cutters VDE 165 mm
- Short flat nose pliers VDE 160 mm
- Long chain nose pliers, angled nose 200 mm
- Combination pliers VDE 205 mm
- Cable stripping knife 1000V, straight blade, 50 mm
- Safety-sets with bag, insulating mat
- Slip on bushes 1000V, 20 mm
- Slip on bushes 1000V, 10 mm
- **VDE-sockets 3/8", M8, M10, M12** (xzn)
- Shutting band red/white 500 m
- Sign „dangerous voltage“
- Sign „do not switch“



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ABS



Art. no.		empty	kg	PU
220171	40-pieces	220023	11,100	1

Tool case trolley „Secure Mobil“ 1000 V

hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, 57 tools, case art. 220023.

Contents:

- 2C-VDE electricians' screwdrivers 2,5 x 75, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- Voltage tester "Profi plus" 12-1,000 V
- Single ended spanner 1000 V 10, 12, 13, 19, 22, 24
- Finger gloves 1000 V, size 9
- Safety fuse grips
- Flat nose pliers 1000 V
- Slip on bushes 1000 V no. 1, 2, 3 (each 5x)
- VDE cable knife, 50 mm
- VDE combination pliers 185 mm
- VDE diagonal cutter 165 mm
- VDE long chain nose pliers 200 mm
- Tool case 1000 V, drive 3/8"
- Electrical insulating tape, red (6x)



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ABS



Art. no.		empty	kg	PU
220272	57-pieces	220023	14,700	1

Tool case „Delux Plus“ 1000 V

rigid case, signal-red, with high-grade fittings, complete with 54 safety tools, case 220076.

Contents:

- 2C-VDE electrician's screwdriver 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C-VDE cross slotted screwdriver PH, size 1 + 2
- VDE telephone pliers, straight, 200 mm
- VDE telephone pliers, bent, 200 mm
- VDE combination pliers 185 mm
- VDE side cutters 165 mm
- VDE wire stripping pliers 160 mm
- Socket wrenches 5.5, 7, 8, 10 mm
- Voltage tester „Profi“
- Hexagon sockets 10, 11, 12, 13, 14, 15, 16
- Reversible ratchet 1/2"
- T-sliding handle 1/2"
- Open end spanners 10, 12, 13, 19, 22, 24
- Cable knife
- Cable scissors 200 mm
- Slip-on bushes 5-pieces No. 1, 10 mm
- Slip-on bushes 5-pieces No. 2, 10 mm
- Slip-on bushes 5-pieces No. 3, 10 mm
- Plastic pliers 180 mm
- Plastic clamp
- Covering tape, grey
- Covering tape, red
- Safety grip
- Gloves size 9



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ABS+



Art. no.		empty	kg	PU
220239	54-pieces	220076	11,780	1

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Tool cases 1000 V

Tool case „Leopard“ 1000 V

rigid case, signal-red, complete with 32 safety tools (460 x 180 x 310 mm).

Contents:

- 2C-VDE electrician's screwdrivers
2,5 x 75, 4 x 100, 6,5 x 150, 8,0 x 175, 10,0 x 200 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C-VDE cross slotted screwdrivers PZ, size 1 + 2
- Retaining screwdrivers 100, 125 mm
- Retaining screwdriver, cross-slotted
- Right angle allen keys, 6, 8 mm
- VDE round nose pliers, 160 mm
- VDE telephone pliers, straight, 200 mm
- VDE telephone pliers, bent, 200 mm
- VDE combination pliers 185 mm
- VDE wire stripping pliers 160 mm
- VDE side cutter, 165 mm
- Socket wrenches 5,5, 6, 7, 8 mm
- Voltage Tester „Profi“
- Cable knife, insulated
- Cable knife
- Cable scissor
- Plastic pliers 180 mm
- Covering tape, red 10 m
- NH-safe



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Art. no.		empty	kg	PU
220136	32-pieces	220076	9,400	1

Tool case „Power Pack“ 1000 V

rigid case, signal red, with Alu frame and 2 locks, 3 plates with many compartments for tools, case 220076 (460 x 180 x 310 mm).

Contents:

- 2C-VDE electrician's screwdrivers
2,5 x 75, 4 x 100, 5,5 x 125 und 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C-VDE screwdrivers PZ/FL, size 1 + 2
- 2C-VDE combination pliers 185 mm
- 2C-VDE diagonal cutter 165 mm
- 2C-VDE telephone pliers 200 mm
- 2C-VDE cable cutter 200 mm
- 2C-VDE water pump pliers 240 mm
- VDE cable knife, straight blade, 50 mm
- Safety glasses „PRO“
- Automatic wire stripper 0,2 - 6 mm²
- Voltage tester „TestPen“
- Voltage tester „Profi“
- Finger gloves, size 9
- Ear protection plugs
- NH-safety fuse grip



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Art. no.		empty	kg	PU
220303	21-pieces	220076	8,680	1

Tool cases 1000 V

Tool case „Venus Plus“ 1000 V

rigid case, signal-red, complete with 32 safety-tools. (460 x 180 x 310 mm).

Contents:

- Electrician's screwdrivers 75, 100, 150, 175, 200 mm
- Cross slotted screwdriver, PH size 1 + 2
- Cross slotted screwdriver, PZ No. 1 + 2
- VDE round nose pliers 160 mm
- VDE telephone pliers, straight, 200 mm
- VDE telephone pliers, bent, 200 mm
- VDE combination pliers 185 mm
- VDE side cutter 165 mm
- VDE wire stripping pliers 160 mm
- Retaining screwdrivers 100, 125 mm
- Retaining screwdriver cross-slotted
- Right angle allen keys, 6, 8 mm
- 2C-VDE socket wrenches 5,5, 6, 7, 8 mm
- Voltage tester "Profi"
- Cable knife, insulated
- Cable knife
- Cable scissor
- Plastic pliers 180 mm
- Self adhesive PVC tape, red, 10 m
- NH-Safety grip
- Finger gloves, size 9



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Art. no.	empty	kg	PU
220033	220032	10,160	1

Tool cases

Tool case „Magister“

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



Art. no.	width	depth	height	kg	PU
220142	440	165	260	2,700	1

Tool case „Pendant“

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

ABS+



Art. no.	width	depth	height	kg	PU
220076	460	180	310	5,107	1

Tool case „Venus“

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

ABSfly ↩



Art. no.	width	depth	height	kg	PU
220032	460	180	310	5,240	1

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Tool cases 1000 V

Tool case "HAUPA - Lifesaver" 1000 V

Aluminium case, equipped with 54 safety tools.

Size: 830 mm x 550 mm x 300 mm, weight: 37 kilos.

Contents:

- 2C-VDE socket wrenches 5, 5,5, 7, 8, 10, 11, 13 mm
- Voltage-Tester
- 2C-VDE electrician's screwdrivers
2,5 x 75, 3 x 100, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross-slotted-screwdrivers PH, size 1, 2
- 2C-VDE cross-slotted-screwdrivers PZ, size 0, 1, 2
- VDE right angle-allen key 3
- VDE right angle-allen key 4
- VDE right angle-allen key 5
- VDE right angle-allen key 6
- VDE right angle-allen key 8
- VDE right angle-allen key 10
- VDE right angle-allen key 12
- VDE open-End Spanners
6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 30 32
- spanner for switch-cabinets
- finger gloves, size 10
- VDE safety face mask
- VDE safety grip
- VDE electricians boots, size 42
- VDE insulating floor mat
- VDE rubber towels 600 mm
- VDE plastic clip 160 mm (2-pieces)
- Slip-on busches 10 mm (4-pieces)
- Safety belt 1400 mm
- Fallstop-breaking device and rope shortening 2 m
- VDE knife with strong blade
- VDE cable cutter 200 mm
- VDE combination pliers 185 mm
- VDE side cutter 185 mm
- VDE long chain nose pliers 200 mm
- VDE wire stripping pliers 160 mm
- VDE tweezer, pointed round 150 mm
- Fall breaking belt typ A



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Art. no.		width	height	depth	kg	PU
220400	54-pieces	830	550	300	37,0	1
220079	empty	830	550	300	18,6	1

Personal protection equipment



Personal protection equipment

Gloves in accordance with DIN EN 60903

made from latex, for working voltages of 500, 1000, 7500, 15000, 17000 to 26500 Volt. **Electricians gloves by HAUPA protect from dangers through arcing faults.** Pleasant, slightly roughened surface in the palm and finger area (**improved non-slip**)



Art. no.	size	Volt	TL	strength	kg	PU
120004	9	500	350	0,5	0,270	1
120005	10	500	350	0,5	0,293	1
120006	9	1000	400	1,0	0,270	1
120007	10	1000	400	1,0	0,280	1
120007/1	11	1000	400	1,0	0,111	1
120006 561	10	7500	400	1,5	0,646	1
120006 564 S	10	17000	400	2,3	0,727	1
120006 587	10	26500	400	2,9	0,947	1

Glove tester

Pneumatic tester for electrician's protective gloves
It is recommended to carry out a test of this nature before starting work.



Art. no.	kg	PU
120109	0,800	1

Heat protection gloves acc. to EN 407

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



Art. no.	kg	PU
120011	0,039	1

Cotton gloves for putting underneath

short cotton gloves to wear with latex-gloves
Art. No. 120004 - 120007



Art. no.	kg	PU
120003	0,041	1

Outer gloves

for mechanical protection from insulated gloves for low voltages 2.5 kV and 5 kV. Made from cow-skin shagreen, water-repellent and silicone treated. Hoop and loop closure on the back of the hand. 150 mm length, sheath sewn on to the exterior. Leather thickness: Only 0.8 / 1.1 mm. Corresponds to the following standards: EN 420-94 General EEC criteria EN 388-94



Art. no.	kg	PU
120028	0,070	1

Set with protective gloves

Safety sets, 3 and 4-pieces in storage bag made from polyester (art. no. 220259)

Contents 120029:
120006, 120003, 120028

Contents 120037:
120006, 120003



Art. no.		TL	kg	PU
120029	4-pieces	400	6,860	1
120037	3-pieces	400	6,860	1

Safety fuse grips

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



Art. no.	kg	PU
120012	0,563	1

Electricians' protection helmets acc. to DIN EN 397 1000 V

low weight, very weatherproof even in cold areas and a stable and very comfortable 4-point belt strap interior. Adjustable to head size, rain catch, slots for ear protection, mount for face protection shields (Art. 120010)



Art. no.		kg	PU
120008	green	0,343	1
120008 GELB	yellow	0,343	1
120008 ROT	red	0,343	1
120008 WEISS	white	0,343	1

Electricians protection visor acc. to EN 166

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



Art. no.		kg	PU
150377	transparent	0,373	1

Safety-face masks acc. to EN 166

for protection against arc faults



Art. no.	kg	PU
120010 transparent	0,275	1

Safety glasses acc. to EN 166

Goggles with transparent lenses, black/orange nylon frame, lenses made of polycarbonate, light weight, high wearing comfort, protects against mechanical risks caused by flying parts, EN166, ANSI Z87.1



Art. no.	kg	PU
120087	0,270	1

Safety glasses acc. to EN 166

Single lens goggles with transparent lenses, black nylon frame, lenses made of polycarbonate, light weight, high wearing comfort, arm length can be adjusted, protects against mechanical risks caused by flying parts, EN166, ANSI Z87.1



Art. no.	kg	PU
120088	0,029	1

Safety glasses acc. to EN 166

Single lens goggles with transparent lenses, soft transparent PVC frame, lenses made of polycarbonate, light weight, high wearing comfort, elastic and adjustable head band, protects against mechanical risks caused by flying parts, EN166, ANSI Z87.1



Art. no.	kg	PU
120093	0,067	1

Safety glasses acc. to EN 166 with UV filter



Protective goggles with heavily tinted lenses, black nylon frame with non-slip pads, lenses made from polycarbonate, low weight, high level of comfort when wearing, protects from mechanical risks caused by flyaway parts, particular when outside EN 166, ANSI Z87.1



Art. no.	kg	PU
120117	0,270	1

Ear defenders acc. to EN 352

Enclosed hearing protectors according to EN 352 with universal bow, soft sealing cushions for long comfort in wear, SNR: 23 dB



Art. no.	dB	kg	PU
120111 red	23	200	1

Ear defenders acc. to EN 352

Dielectric design for environments with the risk of electrical influences, supersoft sealing cushions for long comfort in wear, three wearing positions make combination with safety helmets, face and breathing masks and other safety equipment easy, SNR: 26 dB



Art. no.	dB	kg	PU
120112 blue	26	200	1

Ear muffs for helmet

Ear muffs including helmet holder, SNR 23 for all currently available protective helmets.



Art. no.	dB	kg	PU
120116 green	23	150	1

Ear protection plugs

Universal size, the material adapts individually to every auditory canal, simple to handle, reusable SNR: 30 dB



Art. no.	dB	kg	PU
120115 green	30	0,010	1

Dust masks

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



Art. no.	filterclass	kg	PU
120120	filterclass P 1	0,010	1
120122	filterclass P 1	0,014	1

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Personal protection equipment

Safety-sets VDE/GS

in practical bag, 6-pieces. **Contents:** Electricians' helmet, safety mask, safety handle, gloves size 10 (1000 V), insulating mat 1000 x 1000 x 4 mm



Art. no.		kg	PU
300228	6-pieces	6,860	1
300229	5-pieces (without insulating mat)	3,480	1
300420	Security bag, empty	0,680	1

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

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



Art. no.	size	kg	PU
120020	S, M, L, XL	1,500	1
150300	bag for storing	0,319	1

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

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



Art. no.	size	kg	PU
120022	S, M, L, XL	1,100	1
150300	bag for storing	0,319	1

Electricians' boots acc. to EN 50321 Class 0

size 42 to 48



Art. no.	size	kg	PU
120014	42	2,160	1
120015	43	2,235	1
120016	44 - 45	2,400	1
120017	46	2,550	1
120018	47 - 48	2,160	1

Climping irons acc. to DIN 48 345

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



Art. no.	kg	PU
150280	4,050	1

Safety ropes acc. to A-DIN 83330

Safety ropes with hand loop and safety spring hooks acc. to A-DIN 5290. Type: 16 mm drilled polyamide rope



Art. no.	TL	strength	kg	PU
150262	5000	16	1,185	1
150264	10000	16	2,040	1
150266	15000	16	2,810	1
150268	20000	16	3,781	1

Safety belts acc. EN 358

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



Art. no.	TL	kg	PU
150240	1500	1,210	1

Fallstop acc. to EN 354

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



Art. no.	TL	kg	PU
150274	2000	1,090	1

Travelling safety device DIN 353-2, Type ASK 1

Rope shortener function: takes up slack rope and thus reduces height of the fall.
Fall absorber function: in the case of a fall this limits the catching impact to a medically acceptable level of 6 kN.
Features: Rope shortener made from V2A stainless steel, connection band with integrated fall absorber and self-securing trigger snap, high level of functional safety and absolutely maintenance free due to simplest mechanism, cannot be operated incorrectly, as every device is firmly attached to the rope



Art. no.	TL	strength	kg	PU
150275	5000	12	1,953	1
150276	10000	12	2,482	1
150277	15000	12	3,062	1
150278	20000	12	3,174	1
150279	25000	12	3,675	1

Safety harness DIN EN 361

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



Art. no.	kg	PU
150270	1,614	1

Personal safety set

Safety harness (150270), safety device (150277) and shock absorbing rope (15 m) in practical backpack



Art. no.	kg	PU
150258	4,961	1

Insulating floor mats acc. to IEC-61111

with anti-skid surfaces, colour: grey

art: 120030, 120031 = **Class 2 / 17.000 Volt**

art: 120033 = **Class 4 / 36.000 Volt**



Art. no.	KV	TL	kg	PU
120030	17	1000	1 m x 1 m x 3,0 mm	3,754 1
120031	17	10000	10 m x 1 m x 3,0 mm	role 34,000 1
120033	36	10000	10 m x 1 m x 4,5 mm	role 42,000 1

Rubber towels acc. to VDE 0680/1

grease and acid-proof, for covering of live equipment



Art. no.	TL	width	strength	kg	PU
120040	120	120	1,6	0,037	1
120042	350	250	1,6	0,193	1
120044	600	600	1,6	1,000	1
120046	1000	1000	1,6	2,485	1
120048	1200	1200	1,6	3,200	1

Covering blankets transparent

in accordance with VDE 0680 part 1, with special labelling 1000 V, transparent, largely UV-resistant, flexible in the cold



Art. no.	TL	width	strength	kg	PU
120200	50000	1300	0,5	41,500	1
150322	25000	1200	1,0	38,000	1

Covering blankets transparent

in accordance with VDE 0680 part 1, with special labelling 1000 V, transparent, largely UV-resistant, flexible in the cold



Art. no.	TL	width	strength	kg	PU
150302	1000	600	1,0	0,750	1
150304	1000	600	0,5	0,332	1
150306	1000	400	1,0	0,520	1
150308	1000	400	0,5	0,260	1
150310	1000	300	1,0	0,380	1
150312	1000	300	0,5	0,190	1
150314	600	400	1,0	0,340	1
150316	600	400	0,5	0,171	1
150318	400	300	1,0	0,170	1
150320	400	300	0,5	0,100	1

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Safety tools

Plastic clips 1000 V

for fastening of rubber towels



Art. no.	TL	kg	PU
120049	80	0,029	1
120050	160	0,069	1

Self adhesive PVC tape

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



Art. no.	TL	colour	kg	PU
120095	10000	grey	0,192	1
120096	10000	red	0,190	1

Slip on bushes 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	∅	for No.	kg	PU
120060	80	10	1	0,008	1
120062	80	10	2	0,008	1
120064	80	10	3	0,008	1

Slip on bushes 1000 V

self clamping, not numbered

⚠ 1000 V IEC 60900:2004



Art. no.	TL	∅	kg	PU
120070	75	10	0,011	1
120072	100	20	0,121	1
120074	120	30	0,207	1
120071	135	40	0,372	1
120069	155	50	0,172	1
120073	150	60	0,144	1

Insulator cover for gable insulators 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	width	kg	PU
120079	245	270	0,900	1

Insulator cover for gable insulators 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	width	kg	PU
120089	115	270	1,100	1

Insulator cover for gable insulators 1000 V

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

⚠ 1000 V IEC 60900:2004



Art. no.	TL	kg	PU
120057	80	0,400	1
120059	300	0,775	1

NH-protecting caps 1000 V

for the covering of spring contacts

⚠ 1000 V IEC 60900:2004



Art. no.	TL	width	kg	PU
120058	315	170	0,390	1

NH-protecting caps 1000 V

for the covering of spring contacts

⚠ 1000 V IEC 60900:2004



Art. no.	TL	width	kg	PU
120077	170	140	0,155	1
120078	255	135	0,205	1

Sealing pliers and accessories

Sealing pliers

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



Art. no.	TL	dies-Ø	kg	PU
210700	125	8	0,243	1
210702	145	9	0,316	1
210704	165	10	0,448	1

Dies for sealing pliers

loose dies



Art. no.	dies-Ø	kg	PU
210710	8	0,004	1
210712	9	0,004	1
210714	10	0,006	1

Engraving for sealing pliers

Special engraving on request

Art. no.	
210731	up to 3 letters
210732	every further letter
210733	every border

Lead seals



Art. no.	Ø	kg	PU
150340	8	1,080	1
150342	9	1,110	1
150344	10	1,010	1

Plastic seals



Art. no.	Ø	kg	PU
150343	9	0,002	1000
150345	10	0,003	1000

Seal wire



Art. no.	TL	d1	d2	kg	PU
150360	115	0,5	0,5	0,532	1
150362	230	0,5	0,5	1,041	1
150364	190	0,5	0,3	0,530	1
150366	380	0,5	0,3	1,035	1
150368	300	0,3	0,3	0,533	1
150370	600	0,3	0,3	1,037	1

Plastic seal wire



Art. no.	TL	d1	d2	colour	kg	PU
150375 BLAU	100	0,5	0,6	blue	0,199	1
150375 GRÜN	1000	0,5	0,6	green	0,220	1
150375 ROT	100	0,5	0,6	red	0,207	1

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Accessories

Parallel rope tension clamps

for copper and steel cables and wires



Art. no.	for ropes mm ²	∅	load kg	kg	PU
130064	6-35	3-8	1000	0,890	1
130066	16-70	4-12	1400	1,262	1
130068	50-100	8-16	2500	1,920	1

Hemp tackle block ropes

made of hemp, 20 m long



Art. no.	rope-∅	kg	PU
130042	8	0,950	1
130044	10	1,519	1

Tackle blocks

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



Art. no.	roll-∅	rope-∅	load kg	kg	PU
130004	50	8	200	1,820	1
130006	60	10	250	1,700	1

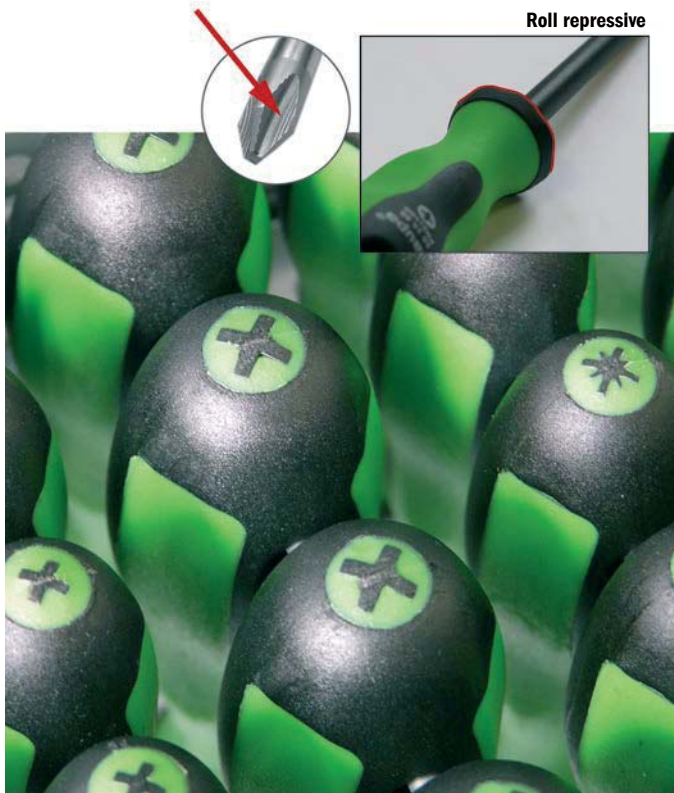


Standard tools



The HAUPA screwdriver series features:

- homogenous size adjustment of the screwdriver handles for better power transmission. Enlargement of soft zone
- elegant, ergonomically shaped, non-slip 2-component handles made from PP/TPE material
- injected blade profile, for easy access in the tool case. Abrasion not possible!
- magnetic blade for secure hold of screws High-gripsystem
- blade made from molybdenum vanadium steel
- an addition anti-slip protection on Phillips profiles prevents the tool from slipping out of the screw



2-component Electricians' screwdrivers

with 2-component handle made from PP/TPE material, blade made from molybdenum- vanadium steel, sanded blade, hardened, blast-finished, chrome plated with black point



Art. no.	BL	CW	TL	kg	PU
101604	75	2,5	160	0,027	1
101606	100	4	195	0,051	1
101608	125	4	220	0,054	1
101610	150	5	245	0,067	1
101612	175	5	270	0,069	1
101614	200	5	295	0,074	1

2-component screwdrivers

2-component Engineers' screwdrivers

with 2-component handle made from PP/TPE material, blade made from molybdenum- vanadium steel, sanded blade, hardened, blast-finished, chrome plated with black point



Art. no.	BL	CW	TL	kg	PU
101640	75	5	170	0,056	1
101642	100	6	205	0,090	1
101644	125	7	230	0,109	1
101646	150	8	270	0,160	1
101648	175	9	295	0,170	1
101650	200	10	320	0,238	1

2-component cross slotted screwdrivers Phillips

with 2-component handle made from PP/TPE material, blade made from molybdenum- vanadium steel, sanded blade, hardened, blast-finished, chrome plated with black point



Art. no.	size	BL	TL	kg	PU
101684	0	60	145	0,032	1
101686	1	80	175	0,055	1
101688	2	100	205	0,087	1
101690	3	150	270	0,161	1

2-component cross slotted screwdrivers Pozidriv

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, chrome plated with black point



Art. no.	size	BL	TL	kg	PU
102612	1	80	175	0,055	1
102614	2	100	205	0,088	1
102616	3	150	270	0,160	1

2-component screwdrivers Tx

with 2-component handle made from PP/TPE material, blade made from molybdenum- vanadium steel, sanded blade, hardened, blast-finished, chrome plated with black point



Art. no.	size	BL	TL	kg	PU
101229/6	6	100	185	0,036	1
101230	8	100	185	0,036	1

2-component screwdriver Tx-S with securing hole

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, chrome plated with black point



Art. no.	size	BL	TL	kg	PU
101200	9	100	185	0,036	1
101202	10	100	195	0,057	1
101204	15	100	195	0,054	1
101206	20	100	195	0,058	1
101208	25	125	195	0,064	1
101210	27	125	230	0,093	1
101211	30	150	255	0,093	1

2-component screwdrivers

2-component screwdrivers Square

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, chrome plated with black point



Art. no.	size	BL	TL	kg	PU
103130	0	60	145	0,032	1
103132	1	80	175	0,055	1
103134	2	100	205	0,087	1
103136	3	150	270	0,161	1

2-component screwdriver set Tx

screwdriver set Tx with security pin, with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, chrome plated with black point, 5-pieces.

Contents:

1 screwdriver each
Tx 10, Tx 15, Tx 20, Tx 25, Tx 30



Art. no.	kg	PU
101212/S Tx with securing hole 5-pieces	0,337	1

2-component Electricians' screwdrivers

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, blade black PVC covered



Art. no.	BL	CW	TL	kg	PU
101520	75	2,5	160	0,027	1
101521	100	3	195	0,030	1
101522	100	4	195	0,051	1
101524	125	4	220	0,054	1
101526	150	5	245	0,068	1
101528	175	5	270	0,072	1
101530	200	5	295	0,078	1

2-component Engineers' screwdrivers

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, blade black PVC covered



Art. no.	BL	CW	TL	kg	PU
101532	75	5	170	0,057	1
101534	100	6	205	0,091	1
101536	125	7	230	0,114	1
101538	150	8	270	0,146	1
101540	175	9	295	0,210	1
101541	200	10	320	0,214	1

2-component cross slotted screwdrivers Phillips

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, blade black PVC covered



Art. no.	size	BL	TL	kg	PU
101542	0	60	145	0,032	1
101544	1	80	175	0,059	1
101546	2	100	205	0,091	1
101548	3	150	270	0,147	1

2-component cross slotted screwdrivers Pozidriv

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, blade black PVC covered



Art. no.	size	BL	TL	kg	PU
101550	1	80	175	0,056	1
101552	2	100	205	0,088	1
101554	3	150	270	0,146	1

2-component Screwdriver set

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, blade black PVC covered.

Contents:

2 electricians' screwdrivers
2 engineers' screwdrivers
2 screwdrivers Phillips



Art. no.	kg	PU
101560 PH 6-pieces	0,431	1

2-component Screwdriver set

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, blade black PVC covered.

Contents:

2 electricians' screwdrivers
2 engineers' screwdrivers
2 screwdrivers Pozidriv



Art. no.	kg	PU
101562 PZ 6-pieces	0,429	1

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2-component screwdrivers

2C-Stubby gasifier screwdrivers

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished



Art. no.	BL	CW	TL	kg	PU
103120	30	6	80	0,050	1
103122	40	8	90	0,051	1

2C-Stubby gasifier cross slot screwdrivers Phillips

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished



Art. no.	size	BL	TL	kg	PU
103080	1	30	80	0,051	1
103082	2	40	90	0,051	1

2C-Piercing awls

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished



Art. no.	BL	Ø	form	kg	PU
103470	100	6	rund	0,083	1
103472	100	6	vierkant	0,085	1

2-component socket wrenches

2-component socket wrenches

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished



Art. no.	BL	TL	WS	kg	PU
101484	125	220	5	0,105	1
101486	125	220	5,5	0,107	1
101488	125	220	6	0,110	1
101490	125	230	7	0,113	1
101492	125	230	8	0,115	1
101494	125	230	9	0,120	1
101496	125	230	10	0,124	1
101500	125	245	12	0,165	1
101502	125	245	13	0,171	1

2-component socket wrenches set

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, 7-pieces.

Contents: 1 piece each
5 - 5,5 - 7 - 8 - 10 - 11 - 13 mm



Art. no.	kg	PU
101510	0,898	1

7-pieces

HAUPA replaceable blade system

Industrial screwdriver set with replaceable dual blades.

2-component screwdriver shaft with 10 interchangeable blades, hexagonal. Material: bit steel S2, (chrome silicon manganese molybdenum vanadium steel), in a stable metal case. **Replaceable blades are also available loose.** (see Page 213)

Blade types:

Slotted 3, 4, 5, 7
Phillips 0, 1, 2, 3
Pozidriv 0, 1, 2, 3
Tx 10, 15, 20, 25
Hexagonal 2, 3, 4, 5



Art. no.	kg	PU
104008	1,060	1

11-pieces

INFO

HAUPA offers all relevant blade tip profiles as individual items and in set form.

- torque can be set using a separate key
- scale value can easily be read off
- clearly perceptible and audible signal when the set torque is achieved
- torque accuracy according to EN ISO 6789:2003

Replaceable dual blades
made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, chrome plated with black point

Precisely adjustable torque

Two handle versions, also available individually:

Art. no. 103070
1.0 - 6.0 Nm

Art. no. 103072
0.5 - 3.5 Nm

HAUPA replaceable blade system „VarioTQ“

„VarioTQ“ dynamometric screwdriver with replaceable blades - Mix

In robust nylon bag (with belt loop and hook and loop closure)

Contents:

- 2-component exchangeable handle 1 - 6 Nm or 0,5 - 3,5 Nm
- slotted 3/4 - 5,5/6,5
- PH0/PH1
- PZ0/PZ1
- PH2/PZ2
- TX 10/15 - 20/25
- HEX 2/3 - 4/5
- PZ/FL1
- PZ/FL22
- Square socket key



Art. no.	form	Nm		kg	PU
103000	Mix	1 - 6	12-pieces	0,765	1
103002	Mix	0,5 - 3,5	12-pieces	0,765	1

"VarioTQ" nylon bag - empty

Robust nylon bag (with belt loop) wide hook and eye fastening and loop for hanging up



Art. no.		kg	PU
103034	empty	0,080	1

2-component exchangeable "VarioTQ" handle

automatic locking mechanism ensures that blades do not fall out unexpectedly, ergonomically formed 2 component book of PP/TPE material, precisely adjustable torque



Art. no.	TL	Nm	kg	PU
103070	125	1 - 6	0,185	1
103072	125	0,5 - 3,5	0,185	1

Square socket key

for adjustment of the torque for VarioTQ replacement blades



Art. no.	BL	KIBr	kg	PU
102784	40	8	0,056	1

"VarioTQ" replaceable blade

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested



„VarioTQ“ replaceable blade – pozidrive blade/slotted

Art. no.	form	size	BL	kg	PU
103028	PZ/FL	1 + 2	175	0,040	1



„VarioTQ“ replaceable blade – slotted blade

Art. no.	form	CW	BL	kg	PU
103010	SL	3 + 4	175	0,040	1
103012	SL	5,5 + 6,5	175	0,040	1



„VarioTQ“ replaceable blade – Phillips blade

Art. no.	form	size	BL	kg	PU
103014	PH	0 + 1	175	0,040	1



„VarioTQ“ replaceable blade – pozidrive blade

Art. no.	form	size	BL	kg	PU
103016	PZ	0 + 1	175	0,040	1



„VarioTQ“ replaceable blade – Phillips/pozidrive blade

Art. no.	form	size	BL	kg	PU
103018	PH + PZ	2 + 2	175	0,040	1



„VarioTQ“ replaceable blade – torx blade

Art. no.	form	size	BL	kg	PU
103020	TX	10 + 15	175	0,040	1
103022	TX	20 + 25	175	0,040	1



„VarioTQ“ replaceable blade – hex blade

Art. no.	form	size	BL	kg	PU
103024	HEX	2 + 3	175	0,040	1
103026	HEX	4 + 5	175	0,040	1



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INFO

ESD electronic screwdrivers

Now with 2-component handle, these screwdrivers do not just convince because of their homogenous design, but also because of their user-friendly handle.

Benefits:

- chrome molybdenum vanadium steel
- blades hardened throughout
- two component handles, hard and soft components
- permanently discharging special synthetic material
- Quick rotating zone
- rotating centring head with recessed grip
- black precision tips
- chromed blade



Security advice:

HAUPA ESD screwdrivers are not insulating and therefore unsuitable for work with live parts.

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, slotted



Art. no.	BL	CW	TL	kg	PU
100704	60	0,8	150	0,023	1
100250	50	1,0	150	0,014	1
100704 A	60	1,2	150	0,021	1
100241	60	2,5	150	0,015	1
100243	100	3,5	150	0,018	1
100252	50	1,6	150	0,014	1
100257	50	2,0	150	0,015	1
100259	75	2,4	175	0,017	1
100261	50	3,0	200	0,020	1

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, cross recess, Phillips



Art. no.	size	BL	TL	kg	PU
100714	000	50	150	0,015	1
100715	00	50	150	0,022	1
100716	0	50	150	0,024	1
100249	1	50	150	0,017	1

Electronic screwdrivers

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, hexagonal



Art. no.	size	BL	TL	kg	PU
100728	1,5	50	150	0,014	1
100729	2,0	50	150	0,015	1
100729 A	2,5	50	150	0,017	1
100736	3,0	50	150	0,020	1

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, Tx/Safety Tx



Art. no.	size	BL	TL	kg	PU
100741	4	50	150	0,017	1
100742	5	50	150	0,018	1
100718 A	6	50	150	0,018	1
100720	7	50	150	0,014	1
100721	8	50	150	0,018	1
100712	9	50	150	0,018	1
100713	10	50	150	0,016	1
100723	15	50	150	0,020	1
100734	20	50	150	0,020	1

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, Tri-Wing



Art. no.	size	BL	TL	kg	PU
100738	2,4	50	150	0,017	1

ESD electronic screwdriver set

Blade made from chrome molybdenum with 2-component handles, 7-pieces, slotted/cross recess.

Contents:

1 ESD electronic screwdriver each
1.6 x 50, 2.0 x 50, 2.4 x 50, 3.0 x 50
and 1 Phillips size 1.0 and 00 x 50 each



Art. no.	kg	PU
104010	0,225	1

7-pieces

HAUPA Electronic screwdriver set standard



chrome vanadium steel, chrome-plated, with large plastic handle, with black point, 7 pieces.

Contents:

1 Electricians' screwdriver size
1.6 x 50, 2.0 x 50, 2.4 x 50, 3.0 x 50,
and 1 Phillips size 1, 0 and 00 x 50



Art. no.	kg	PU
104000	0,221	1
7-pieces		

Electronic screwdriver set



Chrome vanadium steel, screw holder with black /green plastic handle, 4 x hex head 3, 4, 5, 6 and 8 exchangeable screwdriver blades (slot/Phillips/Tx head)



Art. no.	kg	PU
104004	0,288	1
13-pieces		

Electronic screwing bit set



Chrome vanadium steel, screw holder with black/green plastic handle, 1 bit holder, 2 nuts of 5 + 6 mm, 30 bits for slot/Phillips/Pozidriv/Tx/hex head



Art. no.	kg	PU
104002	0,230	1
34-pieces		

Precision screwdrivers

Flexible screwdrivers „Piccolo“



with pliable, plastic coated shank, plastic handle



Art. no.	BL	CW	TL	kg	PU
100364	125	2,8	205	0,020	1

Claw retrievers

with inflexible shaft, chrome-plated, for gripping and retrieving of small parts in normally inaccessible places



Art. no.	TL	kg	PU
100366	165	0,050	1

Checking mirrors

with double ball joint



Art. no.	TL	Ø	kg	PU
100680	210	60	0,028	1

Checking mirrors

with illumination, flexible shaft and plastic handle, 3 interchangeable mirrors Ø 14-23-30 mm, with battery



Art. no.	TL	Ø	kg	PU
100684	530	12	0,169	1

Magnetic retriever

flexible shaft and plastic handle



Art. no.	TL	Ø	kg	PU
100694	520	12	0,097	1

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Allen keys

Allen keys set

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chromium-plated, on key ring.

Contents:
size 2,5 - 3 - 4 - 5 - 6 - 8 - 10



Art. no.	WS	quantity	kg	PU
100640	2,5-10	8	0,250	1

Allen keys set

chrome vanadium steel, (59 Cr-Mo-V 4), im metal clip, key bronzed, DIN 911.

Contents:
Art. 10 06 30: 2,5-3-4-5-6-8 mm
Art. 10 06 33: 1,5-2,5-3-4-5-6 mm
Art. 10 06 34: 2,5-3-4-5-6-8-10 mm



Art. no.	WS	quantity	kg	PU
100630	2,5-8	6	0,249	1
100633	1,5-6	7	0,145	1
100634	2,5-10	7	0,335	1

Allen keys set

chrome vanadium steel, (59 Cr-Mo-V 4), im metal clip, key bronzed, DIN 911.

Contents:
Art. 10 06 32: 3/32-1/8-5/32-3/16-1/4-5/16" AF
Art. 10 06 35: 1/16-5/64-3/32-1/8-5/32-3/16-7/32" AF
Art. 10 06 36: 3/32-1/8-5/32-3/16-1/4-5/16-3/8" AF



Art. no.	WS	quantity	kg	PU
100632	3/32"-5/16"	6	0,251	1
100635	1/16"-7/32"	7	0,135	1
100636	3/32"-3/8"	7	0,328	1

Key set Tx

chrome vanadium steel, (59 Cr-Mo-V 4), in metal-clip, surface black, keys black.

Contents:
TX 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40



Art. no.	size	quantity	kg	PU
100943	TX9 - 40	8	0,260	1

Ball point allen keys

chrome vanadium steel, (59 Cr-Mo-V 4), im metal clip, black keys, DIN 911

Contents:
size 2,5 - 3 - 4 - 5 - 6 - 8 - 10



Art. no.	WS	quantity	kg	PU
100917	2,5-10	7	0,334	1

Allen keys set

chrome vanadium steel, (59 Cr-Mo-V 4), chromium-plated, DIN 911, 8 pieces in handy plastic box, with sliding plexiglasscover.

Contents:
size 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10



Art. no.	WS	quantity	kg	PU
100585	2-10	8	0,303	1

Ball point allen keys

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chromium-plated, 8 pieces in handy plastic box, with pushable plexiglasscover.

Contents:
size 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10



Art. no.	WS	quantity	kg	PU
100915	2-10	8	0,301	1

Allen keys set Tx

chrome vanadium steel, (59 Cr-Mo-V 4), 8 pieces in handy plastic box, surface black.

Contents:
TX 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40



Art. no.	size	quantity	kg	PU
100941	TX9 - 40	8	0,205	1

Allen keys DIN 911

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chromium-plated



Art. no.	TL	WS	Inch	kg	PU
100590	45x14	1,5	1/16"	0,020	1
100592	50x16	2	5/64"	0,020	1
100594	56x18	2,5	3/32"	0,020	1
100596	63x20	3	1/8"	0,030	1
100598	70x25	4	5/32"	0,080	1
100600	80x28	5	3/16"	0,019	1
100602	90x32	6	1/4"	0,028	1
100606	100x36	8	5/16"	0,058	1
100610	112x40	10	3/8"	0,099	1
100612	125x45	12		0,160	1
100614	132x50	13	1/2"	0,202	1

Ball point allen keys

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chromium-plated



Art. no.	TL	WS	Inch	kg	PU
100902	56x18	2,5	3/32"	0,003	1
100903	63x20	3	1/8"	0,005	1
100904	70x25	4	5/32"	0,011	1
100905	80x28	5	3/16"	0,019	1
100906	90x32	6	1/4"	0,029	1
100908	100x36	8	5/16"	0,058	1
100909	112x40	10	3/8"	0,102	1

Voltage testers

VDE/GS-Voltage testers, VDE-tested 0426/72

with clear-transparent, shock-resistant plastic handle.

Art. No. 10 06 46 each in wallet

Art. No. 10 06 47 loose



Art. no.	BL	TL	TMA	kg	PU
100646	50x3	140	100-250	0,020	1
100647	50x3	140	100-250	0,016	1
100648	100x3,5	190	100-250	0,037	1
100649	100x3,5	190	100-250	0,032	1

Voltage tester

Finnish type, Cellidor, only available for Finland



Art. no.	BL	TL	TMA	kg	PU
100645	50x3	140	150-250	0,016	1

Voltage tester VDE/GS

with retractable screwdriver blade



Art. no.	BL	TL	TMA	kg	PU
100650	25x4	140	100-250	0,020	1

Voltage testers VDE/GS

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



Art. no.	TL	TMA	kg	PU
100700	190	125-250	0,036	1



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INFO

Bits

Industrial quality

HAUPA-Bits are made of high-alloyed tool steel, best hardened (H Rc 60 - 63). They show very high tenacity and tolerance. The long life speaks of the hard use and quality.



1 box = 10 pieces (self-service packaging)

Bits

Screwdriver bits

DIN 3126, form E 6,3, shank 1/4", 10 pieces on card



Art. no.	size	TL	kg	PU
102176	PZ 1	25	0,062	1
102178	PZ 2	25	0,065	1
102180	PZ 1 TiN	25	0,062	1
102182	PZ 2 TiN	25	0,066	1
102118	PZ 1	50	0,107	1
102120	PZ 2	50	0,123	1
102184	PZ 1 TiN	50	0,106	1
102186	PZ 2 TiN	50	0,122	1
102188	PZ 1	90	0,179	1
102190	PZ 2	90	0,231	1
102192	PZ 1 TiN	90	0,177	1
102194	PZ 2 TiN	90	0,229	1
102196	PZ 1	150	0,257	1
102198	PZ 2	150	0,360	1

Screwdriver bits

DIN 3126, form E 6,3, shank 1/4", 10 pieces on card



Art. no.	size	CW	TL	kg	PU
102110	0,6x4,5	4,5	50	0,104	1
102112	0,8x5,5	5,5	50	0,115	1

Screwdriver bits

DIN 3126, form E 6,3, shank 1/4", 10 pieces on card



Art. no.	size	TL	kg	PU
102152	PH 1	25	0,062	1
102154	PH 2	25	0,067	1
102156	PH 1 TiN	25	0,064	1
102158	PH 2 TiN	25	0,066	1
102114	PH 1	50	0,105	1
102116	PH 2	50	0,124	1
102160	PH 1 TiN	50	0,106	1
102162	PH 2 TiN	50	0,123	1
102164	PH 1	90	0,180	1
102166	PH 2	90	0,097	1
102168	PH 1 TiN	90	0,063	1
102170	PH 2 TiN	90	0,100	1
102172	PH 1	150	0,251	1
102174	PH 2	150	0,358	1

Screwdriver bits, red.

DIN 3126, form E 6,3, shank 1/4", 10 pieces on card



Art. no.	size	TL	kg	PU
102155	2	25	0,064	1

Screwdriver bits Tx

DIN 3126, form E 6,3, shank 1/4", 10 pieces on card



Art. no.	size	TL	kg	PU
102200	Tx 15	25	0,061	1
102202	Tx 20	25	0,063	1
102204	Tx 25	25	0,065	1
102208	Tx 30	25	0,070	1
102122	Tx 15	50	0,100	1
102124	Tx 20	50	0,110	1
102126	Tx 25	50	0,112	1

Bits for PZ slot profile

The PZ/FL profile can only be used for combination screws that were previously screwed with a slot or recessed head PZ type screwdriver. The screws have an inner PZ profile with an additional cross slot that also allows it to be screwed with a slot screwdriver

1 PU (packaging unit) = 2 pieces



Art. no.	size	TL	kg	PU
101874	1	60	0,012	1
101876	2	60	0,013	1
101880	1	90	0,179	1
101882	2	90	0,231	1

Magnetic holder

with strong magnetic, shank 1/4", form C 6,3 DIN 3126, for holding the screws, socket made of stainless steel, suitable for all



Art. no.	TL	kg	PU
102130	75	0,056	1

SDS magnetic holder

with strong permanent magnet, bit holder 1/4", form C 6.3 DIN 3126, to hold screws, rust-free, stainless steel sleeve, suitable for SDS bits holders



Art. no.	TL	kg	PU
102131	55	0,045	1

Magnetic holder

with strong magnetic, shank 1/4", form C 6.3 DIN 3126, for holding the screws, socket made of stainless steel, with inside ring, suitable for all



Art. no.	TL	kg	PU
102132	75	0,045	1
102134	60	0,040	1

HAUPA „Bit box“



Description:

- Belt clip
- Ergonomic (with the opening of the box the bits will be moved in 45° angle, easy pick up position)
- A special mechanism fixes the bits even in an up side down position

Contents: 17-pieces

Screwdriver bits, form E 6.3, shank 1/4", 25 mm

PH: 1, PH 2, PH 3

PZ: 1, PZ 2, PZ 3

Tx: 10, T 15, T 20, T 25

slotted: 4.0 (0.5), 5.0 (0.8), 5.0 (1.0), 6.0 (1.0)

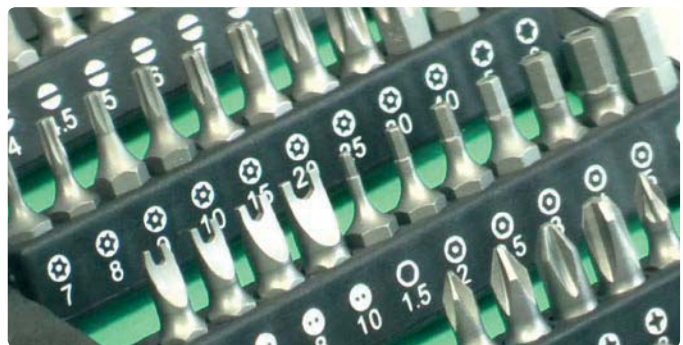
hexagon: 4.0, 5.0, 6.0

Magnetic holder 60 mm



Art. no.	kg	PU
102210	0,170	1

17-pieces



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Ratchet screwdriver, bits

Ratchet screwdriver „Flex“

Ratchet screwdriver with right/left hand motion. Adjustable operating angle of 180°. Safety and special bit set - top quality S2! The screwing grasp also Quick change penholder and 2-components Handle provides for anti-slip and fatigue-free working. The ergonomic form and the soft zones within the pressure area range make a relaxed possible screws. With hanging up hole.

Only for 1/4", = 25 mm Bits.



Art. no.	bit	kg	PU
104005	= 25 mm	0,215	1

Ratchet screwdriver „FlexPlus“

Ratchet screwdriver with right/left hand motion. Adjustable operating angle of 180°. Safety and special bit set - top quality S2! The screwing grasp also Quick change penholder and 2-components Handle provides for anti-slip and fatigue-free working. The ergonomic form and the soft zones within the pressure area range make a relaxed possible screws. With hanging up hole.



Art. no.	bit	kg	PU
104009	> 25 mm	0,215	1

Ratchet screwdriver set „Flex“

Ratchet screwdriver with right/left hand motion. Adjustable operating angle of 180°. Safety and special bit set - top quality S2! The screwing grasp also Quick change penholder and 2-components Handle provides for anti-slip and fatigue-free working. The ergonomic form and the soft zones within the pressure area range make a relaxed possible screws. With hanging up hole.

Only for 1/4", = 25 mm Bits.

Advantages:

- Ratchet function
- Left/clockwise rotation adjustable
- Bending bar: 0°- 45°- 90°
- Ergonomic working within restrained ranges
- S2 steel industry bit for nearly all applications
- 2-components handle
- 55 bits 1/4" 25 mm and 1 adapter for 1/4" nut



Art. no.	bit	kg	PU
104006	58-pieces = 25 mm	0,810	1

Ratchet screwdriver set „FlexBag“ with 50 mm S2 bits and reduced shank

Ratchet screwdriver with right/left hand motion. Adjustable operating angle of 180°. Safety and special bit set - top quality S2! The screwing grasp also Quick change penholder and 2-components Handle provides for anti-slip and fatigue-free working. The ergonomic form and the soft zones within the pressure area range make a relaxed possible screws. With hanging up hole.

Contents:

- 1/4" 50 mm Power bits Tx: T5, T6
 - 1/4" 50 mm Power bits Tx-S: T7, T8, T9, T10, T15, T20, T25, T30, T40
 - 1/4" 50 mm Power bits Hex (hole): H2, H2.5, H3, H4, H5, H6
 - 1/4" 50 mm Power bits PH: 0, 1, 2, 3
 - 1/4" 50 mm Power bits PZ: 0, 1, 2, 3
 - 1/4" 50 mm Power bits slot: 3, 4, 5, 6, 7, 8
 - 1/4" 50 mm Power bits SQ: 0, 1, 2, 3
 - 1/4" 50 mm Power bits Tri-Wing: 1, 2, 3
 - 1/4" 50 mm Power bits PZ/FL 1 & 2
- Above bits are in reduced shank except T40, H6, flat: 6, 7, 8 in full hex shank
2 pcs. Adapters: 1/4" 50 mm, 1/4" 80 mm
8 pcs. sockets: 5, 5.5, 6, 7, 8, 10, 12, 13
1 pc of FlexPlus ratcheting driver



Art. no.	bit	kg	PU
104020	51-pieces > 25 mm	0,810	1

Socket sets



Spanners

Double ended spanners acc. to DIN 3110

chrome vanadium steel, bright chromium-plated, head polished, offset at 15°



Art. no.	TL	WS	strength	kg	PU
110090	120	6-7	3,2	0,240	1
110092	140	8-9	3,5	0,340	1
110094	157	10-11	4,0	0,590	1
110096	172	12-13	4,5	0,057	1
110100	190	14-15	5,0	0,760	1
110104	205	16-17	5,5	0,144	1
110108	223	18-19	6,0	0,182	1
110112	250	21-23	7,0	0,212	1
110114	250	24-26	7,0	0,273	1
110120	302	27-32	8,2	0,519	1

Double ended spanners set acc. to DIN 3110

chrome vanadium steel, chromium-plated, head polished, in plastic bags.



Art. no.	WS	kg	PU
110130	6-22	8-pieces	0,940
110132	6-32	12-pieces	2,353

Double ended ring spanners to DIN 838

chrome vanadium steel, bright chromium-plated, head polished, offset at 75°



Art. no.	TL	WS	kg	PU
110140	170	6-7	0,035	1
110142	185	8-9	0,066	1
110144	205	10-11	0,075	1
110146	220	12-13	0,107	1
110148	240	14-15	0,154	1
110152	265	16-17	0,175	1
110154	280	18-19	0,297	1
110160	335	24-26	0,468	1
110164	370	27-32	0,611	1

Double ended ring spanner sets DIN 838

chrome vanadium steel, bright chromium-plated, head polished, in paper box



Art. no.	WS	kg	PU
110170	6-22	8-pieces	1,289
110172	6-32	12-pieces	2,451

Combination spanners similar to DIN 3113

chrome vanadium steel, chromium-plated, head polished, offset at 15°



Art. no.	TL	WS	kg	PU
110180	100	6	0,016	1
110182	110	7	0,021	1
110184	120	8	0,028	1
110186	130	9	0,036	1
110188	140	10	0,043	1
110190	150	11	0,058	1
110192	160	12	0,061	1
110194	170	13	0,081	1
110196	180	14	0,075	1
110198	190	15	0,087	1
110202	210	17	0,160	1
110204	220	18	0,164	1
110206	230	19	0,187	1
110212	260	22	0,266	1
110216	280	24	0,316	1
110222	310	27	0,401	1

Combination spanners similar to DIN 3113

chrome vanadium steel, bright chromium-plated, head polished, in plastic bags.



Art. no.	WS	kg	PU
110250	6-22	12-pieces	1,144

Combination spanners similar to DIN 3113

chrome vanadium steel, bright chromium-plated, head polished, in paper box



Art. no.	WS	kg	PU
110252	6-27	16-pieces	1,948

Open-jawed ring wrench with ratch function

Open-jawed ring wrench with ratch function made from chromium-vanadium steel, chromed surface, polished, fine-toothed, 72 teeth, swing angle 5°, DIN 3113, ISO 3318, in a practical plastic box, wrench size 8 - 9 - 10 - 12 - 13 - 14 - 17 - 19 mm



Art. no.	WS	kg	PU
110900	8-19	8-piece	1,255

Socket sets

Adjustable single-head wrench

Adjustable single-head wrench with ratch function made from chromium-vanadium steel, forged, chromed, DIN 3117, handle made from TPR, with lasered measuring scale



Art. no.	size	TL	kg	PU
110590	6-19	150	0,160	1
110592	9-24	200	0,342	1
110594	10-29	240	0,111	1
110596	10-34	300	0,111	1

Adjustable single-head wrench with ratch function

Adjustable single-head wrench with ratch function made from chromium-vanadium steel, fast and effective working, use of singlehead wrench does not need to be discontinued, forged, chromed, DIN 3117, handle made from TPR, with lasered measuring scale, mounting with anti-theft device and function test



Art. no.	size	TL	kg	PU
110583	6-19	150	0,160	1
110585	9-24	200	0,342	1

Socket set

1/4"

chrome vanadium steel, „Profi“-quality GS-tested, black plastic case, 1/4".

Contents:

12 Sockets: 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm, 1 ratchet handle, 72 gears with quick release function, 14 insert bit socket PH: 1 - 2 - 3, HX: 3 - 4 - 5 - 6 - 8, TX: 10 - 15 - 20 - 25 - 27 - 30, 1 flexible extension bar, 2 extension bars 50 & 100 mm, 1 universal joint, 1 sliding adapter 3/8" x 1/4" for extension bar work as T handle, 1 spinner handle for screwdriver



Art. no.	kg	PU
110674	33-pieces	1,051 1

Socket set

3/8"

chrome vanadium steel, „Profi“-quality GS-tested, black plastic case, 3/8".

Contents:

18 Sockets: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm, 1 ratchet handle, 72 gears with quick release function, 1 universal joint, 1 sliding adapter 1/2" x 3/8" for extension bar work as T handle, 2 spark plug sockets 16 & 21 mm, 3 extension bars 20 - 75 - 150 mm



Art. no.	kg	PU
110676	26-pieces	2,309 1

Socket set

1/2"

chrome vanadium steel, „Profi“-quality GS-tested, black plastic case, 1/2".

Contents:

20 Sockets: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 30 - 32 mm, 1 ratchet handle, 72 gears with quick release function, 1 extension bar, safety locking type 250 mm, 1 extension bar 125 mm, 1 sliding T-bar 300 mm, 1 universal joint, 1 sliding adapter 3/8" x 1/2" for extension bar work as T handle



Art. no.	kg	PU
110677	25-pieces	4,739 1

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Socket sets

Socket set

1/2" 1/4"

chrome vanadium steel, „Profi“-quality GS-tested, black plastic case.

Contents:

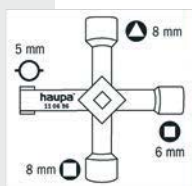
1/4": 12 Sockets 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm,
1 ratchet handle, 1 universal joint, 1 sliding adapter 3/8" x 1/4" for extension
bar work as T handle, 2 extension bars 50 + 150 mm, 1 spinner handle for
screwdriver, 12 insert bit sockets: PH: 1-2, HX: 3 - 4 - 5 - 6, FD: 5.5 - 7,
TX: 20 - 25 - 27 - 30, 5 Hex keys: 1.25 - 1.5 - 2.0 - 2.5 - 3.0 mm
1/2": 13 sockets 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm,
1 ratchet handle, 2 extension bars 75 + 250 mm, 1 sliding adapter 3/8" x 1/2"
for extension bar work as T handle, 2 plug sockets, 1 universal joint



Art. no.		kg	PU
110678	53-pieces	4,385	1

Spanners for switch-cabinets

made of metal for high torques, small size, low weight, with chain inside square
6 mm, inside square 7 - 8 mm, inside threesquare 7 - 8 mm, double size 3 - 5 mm



Art. no.	size	kg	PU
110696	72 x 72	0,059	1

SysCon „SocketMax“

1/2" 1/4"

Contents:

- 220370 ABS plastic box „SysCon S“
- 12 Sockets 1/4" 4-4.5-5-5.5-6-7-8-9-10-11-12-13 mm
- 2 Extensions 1/4" 50 - 150mm
- 1 Adapter 3/8" x 1/4" for sliding handle
- 1 Kardanjoint 1/4"
- 1 Bit adapter 1/4"
- 1 Reversible ratchet 1/4"
- 13 Sockets 1/2" 10-11-12-13-14-15-17-19-22-24-27-30-32 mm
- 2 Extensions 1/2" 75 - 250 mm
- 1 Adapter 3/8" x 1/2" for sliding handle
- 1 Kardanjoint 1/2"
- 1 Reversible ratchet 1/2"
- 1 Ratchet screwdriver „Flex“
- 2 Adapter 50 - 80 mm
- 4 Bit 1/4" 50 mm PH 0 - 1 - 2 - 3
- 4 Bit 1/4" 50 mm PZ 0 - 1 - 2 - 3
- 2 Bit 1/4" 50 mm PZ/FL 1 - 2
- 4 Bit 1/4" 50 mm SL 3 - 4 - 5 - 6 mm
- 6 Bit 1/4" 50 mm hexagon 2 - 2.5 - 3 - 4 - 5 - 6

SysCon



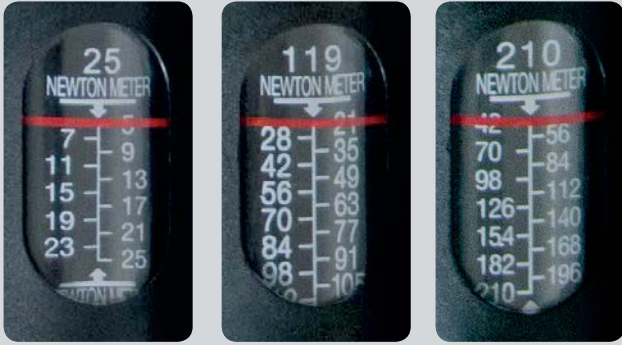
Art. no.		empty	kg	PU
220600	55-pieces	220370	6,000	1

INFO

Torque wrench

Industrial quality

- With built-in changeover ratchet, accuracy +/- 3%,
- Material: Chrome-Vanadium steel DIN-3122; ISO 6789
- Measuring range from 5 - 25 Nm, 21 - 119 Nm, 42 - 210 Nm
- With viewing window display and locking mechanism
- Easy to read scale
- With storage case



Torque wrenches

1/4"

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel Din-3122; ISO 6789



Art. no.	drive		kg	PU
110607	1/4"	5 - 25 Nm	1,000	1

Torque wrenches

3/8"

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel Din-3122; ISO 6789



Art. no.	drive		kg	PU
110608	3/8"	21 - 119 Nm	1,500	1

Torque wrenches

Torque wrenches

1/2"

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel Din-3122; ISO 6789



Art. no.	drive		kg	PU
110610	1/2"	21 - 119 Nm	1,500	1

Torque wrenches

1/2"

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel Din-3122; ISO 6789



Art. no.	drive		kg	PU
110609	1/2"	42 - 210 Nm	1,750	1



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SysCon Socket sets

SysCon socket wrench set "Torque" 1/4"

1/4"

Contents:

- 1 220370 ABS plastic box "SysCon S"
- 12 sockets 1/4" 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
- 5 sockets 1/4" Tx, long version T20, T25, T27, T30, T40
- 4 sockets 1/4" Hex, long version 4, 5, 6, 8 without hole
- 2 extension bar 1/4", 50 and 150 mm
- 1 adapter 3/8" x 1/4" for extension bar work as T-handle
- 1 universal joint 1/4"
- 1 bit adapter 1/4"
- 1 reversible ratchet 1/4"
- 1 torque wrenches 1/4", 5 - 25 Nm
- 1 ratchet screwdriver "Flex"
- 2 adapter 50 and 80 mm
- 4 bits 1/4" 50 mm PH 0 - 1 - 2 - 3
- 4 bits 1/4" 50 mm PZ 0 - 1 - 2 - 3
- 2 bits 1/4" 50 mm PZ/FL 1 - 2
- 4 bits 1/4" 50 mm SQ 3 - 4 - 5 - 6 mm
- 6 bits 1/4" 50 mm hexagonal 2 - 2.5 - 3 - 4 - 5 - 6

SysCon



Art. no.		empty	kg	PU
220640	51-pieces	220370	3,900	1

SysCon socket wrench set "Torque" 1/2"

1/2"

Contents:

- 1 220370 ABS plastic box "SysCon S"
- 17 sockets 1/2" 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm
- 5 sockets 1/2" Tx, long version T30, T40, T45, T50, T55
- 4 sockets 1/2" Hex, long version 8, 10, 12, 14 without hole
- 2 extension bar 1/2", 75 and 250 mm
- 1 adapter 3/8" x 1/2" for extension bar work as T-handle
- 1 universal joint 1/2"
- 1 reversible ratchet 1/2"
- 1 torque wrenches 1/2", 21 - 119 Nm

SysCon



Art. no.		empty	kg	PU
220642	32-pieces	220370	4,300	1

Pliers

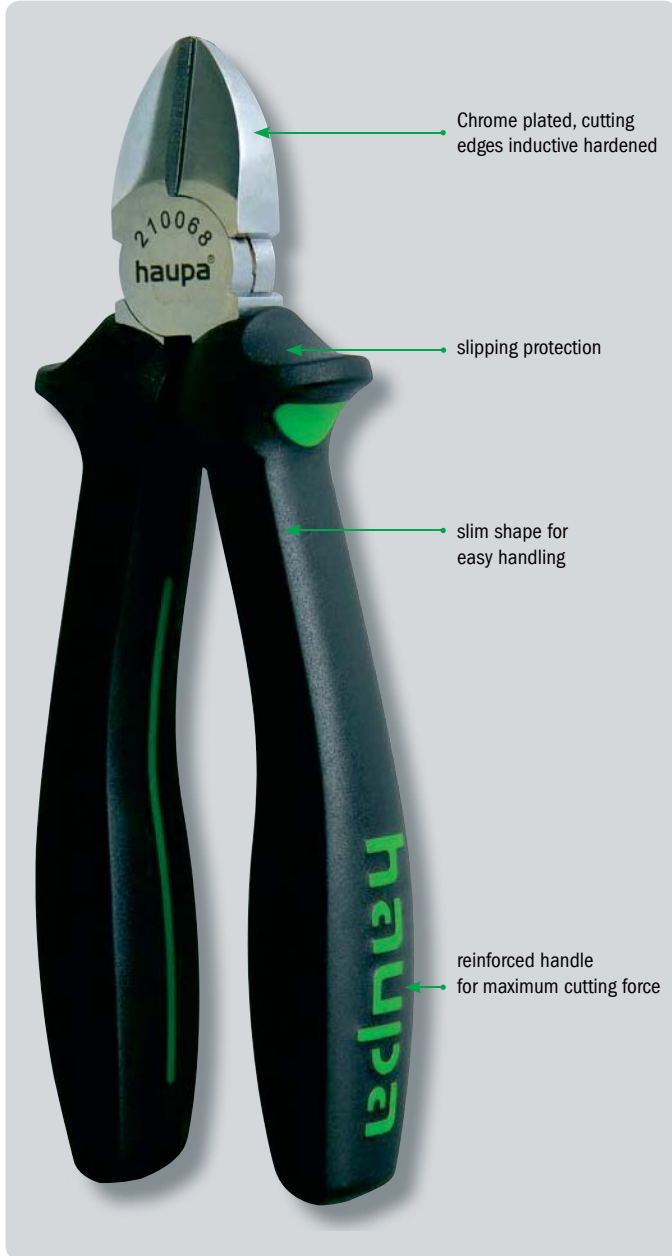


INFO

2-component pliers

Industrial quality

Pliers range with 2-component handles made of highquality, non-slip, thermoplastic elastomer.



2-component pliers Black Line

2-component combination pliers DIN 5746

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, for soft wire and hard wire



Art. no.	TL	soft	hard	kg	PU
210052	165	4,0	2,0	0,197	1
210053	185	4,0	2,2	0,286	1
210054	205	4,2	2,5	0,410	1

2-component side cutters DIN 5749

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, for soft wire and hard wire



Art. no.	TL	soft	hard	kg	PU
210067	140	4,0	1,8	0,172	1
210068	165	4,0	2,0	0,237	1

2-component heavy duty side cutters DIN 5749

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, for soft wire and hard wire



Art. no.	TL	soft	hard	kg	PU
210157	175	4,0	2,7	0,264	1
210158	205	4,2	3,0	0,326	1

2-component long flat nose pliers DIN 5745

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated



Art. no.	TL	kg	PU
210313	160	0,155	1

2-component pliers Black Line

2-component long round nose pliers DIN 5745

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated



Art. no.	TL	kg	PU
210350	160	0,153	1

2-component long chain nose pliers DIN 5745

with side cutter, straight, alloyed carbon steel, forged and annealed, cutting edges induction hardened, for soft wire and hard wire, with 2 component plastic handle with hand protection, chromium-plated



Art. no.	TL	form	kg	PU
210394	170	straight	0,154	1
210396	200	straight	0,253	1

2-component long chain nose pliers DIN 5745

with side cutter, 45° angled nose, alloyed carbon steel, forged and annealed, cutting edges induction hardened, for soft wire and hard wire, with 2 component plastic handle with hand protection, chromium-plated



Art. no.	TL	form	kg	PU
210398	200	45°	0,251	1

Wire stripping pliers DIN 7168

alloyed carbon steel C 45, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated



Art. no.	TL	mm ²	kg	PU
210644	160	0,6-10	0,196	1

2-component water pump pliers DIN 8976

chrome vanadium steel, forged and annealed, curved jaws, gripping chuck hardened, self-locking nut, finger protection, with 2 component plastic handle with hand protection, chromium-plated



Art. no.	TL	kg	PU
210584	240	0,368	1

2-component pliers set

Contents:

- 1 combination pliers 180 mm
- 1 diagonal cutter 160 mm
- 1 long chain nose pliers 200 mm
- 1 wire stripping pliers 160 mm



Art. no.	4-pieces	kg	PU
220128		1,044	1

2-component pliers set

Contents:

- 1 combination pliers 180 mm
- 1 heavy duty diagonal cutter 180 mm
- 1 long chain nose pliers 200 mm
- 1 wire stripping pliers 160 mm



Art. no.	4-pieces	kg	PU
220129		1,082	1

Water pump pliers

chrome vanadium steel, forged and annealed, curved jaws, gripping chuck hardened, titan-plated, dipped, setting at touch of a button, safe engaging



Art. no.	TL	kg	PU
210616	170	0,185	1
210617	240	0,330	1
210618	300	0,545	1

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INFO

ESD Electronic pliers

Industrial quality

Advantages:

- Elegant, ergonomically shaped, non-slip 2-component handle ensures comfortable and precise working
- Special tool steel, forged and tempered, edges hardened (58 ± 2HRC)
- Surface resistance 10.9 Ohm, in accordance with electronics area ESD
- Each mechanism checked
- precision pliers for meticulous assembly work for example in electronics and precision engineering
- for picking up, holding and bending
- model with electric discharging
- precision hinges
- smooth handle surfaces
- low-friction double spring for smooth and steady opening
- handles with two-coloured multi-component handle covers black/green
- special tool steel

Not only people, objects also experience electrostatic charging as a result of movement, friction and being handled. Such charging can lead to the destruction of endangered components. HAUPA ESD - electronics pliers discharge such energy slowly and in a controlled way.

ESD Electronic needle nose pliers

with wire cutter, special tool steel



Art. no.	TL	form	kg	PU
211850	130	straight	0,091	1

ESD Electronic needle nose pliers, 45° angle

with wire cutter, special tool steel



Art. no.	TL	form	kg	PU
211852	130	45°	0,089	1

ESD Electronic needle nose pliers

straight construction, special tool steel



Art. no.	TL	form	kg	PU
211854	130	straight	0,082	1

2-component ESD electronic pliers

ESD Electronic needle nose pliers, 45° angle

45° angle, special tool steel



Art. no.	TL	form	kg	PU
211856	130	45°	0,081	1

ESD Electronic thin needle nose pliers

straight construction, special tool steel



Art. no.	TL	form	kg	PU
211858	140	straight	0,083	1

ESD Electronic thin needle nose pliers, 45° angle

45° angle, special tool steel



Art. no.	TL	form	kg	PU
211860	140	45°	0,084	1

ESD Electronic thin needle nose pliers

straight construction, special tool steel



Art. no.	TL	form	kg	PU
211862	150	straight	0,087	1

ESD Electronic thin needle nose pliers, 45° angle

45° angle, special tool steel



Art. no.	TL	form	kg	PU
211864	150	45°	0,087	1

2-component ESD electronic pliers

ESD Electronic flat nose pliers



Special tool steel



Art. no.	TL	kg	PU
211866	130	0,090	1

ESD Electronic front cutter



Special tool steel



Art. no.	TL	kg	PU
211874	115	0,093	1

ESD Electronic round nose pliers



straight construction, special tool steel



Art. no.	TL	kg	PU
211868	130	0,091	1

ESD Electronic combination pliers



with wire cutter, special tool steel



Art. no.	TL	kg	PU
211876	115	0,077	1

ESD Electronic side cutter



normal construction, head width 14 mm,
special tool steel



Art. no.	TL	kg	PU
211870	115	0,078	1

ESD Electronic side cutters



slim construction, head width 10 mm,
special tool steel



Art. no.	TL	kg	PU
211872	110	0,075	1

ESD Electronic side cutter without cutting-facet



normal construction, head width 14 mm
without chamfer, special tool steel



Art. no.	TL	kg	PU
211875	115	0,075	1

ESD Electronic pliers set



Special tool steel

Contents Art. No.:

211862, 211870, 211874, 211876



Art. no.	kg	PU
211880	0,585	1

4-pieces

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2-component electronic pliers

Microelectronic side cutters



without cutting-facet, clearance angle: 50°, with clip, for soft wires up to 0.8 mm²



Art. no.	TL	kg	PU
211708	118	0,069	1

Microelectronic side cutters



without cutting-facet, clearance angle: 21°, with clip, for soft wires up to 1.3 mm²



Art. no.	TL	kg	PU
211720	132	0,086	1
211722	158	0,087	1

Tweezers

special design for wafers, long, extra small blades, needle fine top ends, stainless steel, antimagnetism acid resistant



Art. no.	TL	kg	PU
211080	130	0,017	1

Special pliers

Grip pliers

one jaw straight, one jaw movable, forged of chrome vanadium, a real universal plier for gripping any kind of workpiece, flat round or square, with quick-release lever and adjustable screw



Art. no.	TL	WS	kg	PU
210556	250	0-40	0,518	1

Grip pliers

jaws drop, forged of chrome vanadium, adjustable screw, quick-release lever, half-round jaws, with wire cutter



Art. no.	TL	WS	kg	PU
210562	250	0-40	0,565	1

Pipe wrenches

chrome vanadium steel, polished



Art. no.	TL	WS	tube	kg	PU
210592	320	-45	1"	0,798	1
210594	435	-59	1 1/2"	0,800	1
210596	560	-76	2"	2,460	1

Riveting pliers

made of aluminium-pressure casting, all inner parts made of special alloyed steel and hardened, with 4 exchangeable nozzles 2,4-3-4-5 mm, for blind rivets of aluminium-copper or steel



Art. no.	TL	kg	PU
210770	250	0,552	1

Riveting tool set

in portable plastic box. **Contents:** 1 plier no. 210770, 100 pieces of alu space rivets 4 mm Ø, short-middle-long, 2 twist drills and washers.



Art. no.	TL	kg	PU
210776	250	0,840	1

Accessories



Painters accessories

Wire brushes



Art. no.	TL	kg	PU
150002	300	0,131	1

Water brushes

real bristles, vulcanized, textile bound, bristles-Ø 24 mm, length of bristle 48 mm



Art. no.	width	kg	PU
150004	24	0,036	1

Plaster cups

soft rubber



Art. no.	Ø	depth	kg	PU
150006	125	90	0,105	1

Plaster pan

metal, with wooden handle



Art. no.	Ø	depth	kg	PU
150008	160	40	0,341	1

Paint scrapers

steel, polished blade, with oval wooden handle



Art. no.	TL	width	kg	PU
150024	185	40	0,043	1
150026	205	50	0,051	1
150028	205	60	0,047	1

Chalk line roller Squid, 15 m

Chalk line roller made from cast magnesium with push system: Pressure on the axle does not turn the crank; hardened hook with curved spike, integrated storage for the hook, **Art. no. 150023: fast-retraction transmission 5:1**



Art. no.	size	kg	PU
150019	15 m Squid	0,291	1
150023	15 m Fast Squid	0,291	1

Deep hole marker

Marker and writing implement with a refillable solid lead, suitable for all surfaces (including dusty, rough, damp or oily surfaces) cap in a bright signalling colour **with integrated sharpener**. Also suitable for dark surfaces.



Art. no.	kg	PU	
150025	0,291	1	
150027	spare lead 10 pc	0,291	1

Carpenters' pencils



Art. no.	kg	PU
150090	0,007	1

Marking chalk

1 PU = 12-pieces



Art. no.	kg	PU	
150015 B	blue	0,017	1
150015 G	yellow	0,017	1
150015 R	red	0,016	1

Chalk

in plastic bottles, 250 g



Art. no.	kg	PU	
140510	red	0,284	1
140520	blue	0,276	1
140530	yellow	0,279	1

Chalk

in bags



Art. no.	kg	PU	
150018 BLAU	blue	0,059	1
150018	yellow	0,061	1
150018 ROT	red	0,060	1

Soldering accessories



Soldering accessoires

Soldering irons

chrome nickel steel tube, with schuko safety plug, replaceable nickel-plated copper tips



Art. no.	TL	Volt	Watt	kg	PU
160142	265	220	60	0,322	1
160144	315	220	80	0,319	1
160146	320	220	100	0,324	1

Soldering irons

with plastic handle, with schuko safety plug, replaceable copper tips, nickel-plated



Art. no.	TL	Volt	Watt	kg	PU
160150	250	220	30	0,264	1

Soldering irons

soldering tip internally heated, chrome vanadium steel tube, with plastic handle, with schuko safety plug, replaceable nickel-plated copper tips, for electronic work



Art. no.	TL	Volt	Watt	kg	PU
160190	200	220	15	0,257	1

Soldering set

Contents:

- 1 Soldering iron 80 Watt
- 1 Hobbyists' solder 1 m
- 1 Radio solder 1 m
- 1 Soldering grease 20 g



Art. no.	Watt	kg	PU
160234	80	0,387	1

Solder in triangular sticks DIN 1707

length approx. 430 mm, approx. 250 g per stick, size: 11 x 11 x 11 x 430 mm



Art. no.	Sn%	Roll/g	kg	PU
160112	30	250	0,275	1
160114	40	250	0,247	1
160116	60	250	0,232	1

Soldering stone



Art. no.	kg	PU
160130	0,070	1

Soldering paste acc. to DIN 8511-F-SW 26

rosin halide-activated, **field of application:** electro-technic, electronics, manufacture of electrical appliances



Art. no.	kg	PU
160090	0,073	1

Soldering fluid acc. to DIN 8511-F-SW 32

rosin halide-activated, **field of application:** electro-technic, electronics, manufacture of electrical appliances



Art. no.	kg	PU
160092	0,054	1

Grease for soft-soldering acc. to DIN 8511-F-SW 21

ammonium chloride, organic preparation, **field of application:** general soldering work



Art. no.	kg	PU
160094	0,072	1
160096	0,132	1

Soldering grease for fittings acc. to DIN 8511-F-W 22

field of application: sanitary technics, copper tubes etc.



Art. no.	kg	PU
160100	0,080	1

Soldering fluid acc. to DIN 8511-F-W 21

ammonium chloride, organic preparation **field of application:** sanitary technics, copper tubes etc.



Art. no.	kg	PU
160102	0,065	1

Solder for electronic work

Solder for electronic work acc. to DIN EN 29453

antimony-free, soldering flux acc. To DIN EN 29454, 1.1.2.B (F-SW 26), S-Sn60Pb40, rosin halide-activated



Art. no.	Ø	Sn%	Roll/g	kg	PU
160020	1	60	100	0,104	1
160022	1	60	250	0,253	1
160024	1	60	500	0,529	1
160026	1	60	1000	1,008	1
160028	1,5	60	1 m	0,016	1
160030	1,5	60	100	0,106	1
160042	1,5	60	250	0,247	1
160044	1,5	60	500	0,528	1
160046	1,5	60	1000	1,022	1
160050	2	60	100	0,108	1
160052	1	60	250	0,250	1
160054	1	60	500	0,529	1

Solder for electronic work acc. to DIN EN 29453

antimony-free, soldering flux acc. to DIN EN 29454, 1.1.2.B (F-SW 26), S-Sn60Pb40, rosin halide-activated



Art. no.	Ø	Sn%	Roll/g	kg	PU
160000	1	60	1 m	0,009	1
160002	1	60	100	0,106	1
160004	1	60	250	0,259	1
160006	1	60	500	0,528	1
160008	1	60	1000	1,015	1
160012	1,5	60	100	0,102	1
160014	1,5	60	250	0,255	1
160016	1,5	60	500	0,523	1
160018	1,5	60	1000	1,024	1

Solder for electronic work acc. to DIN EN 29453

antimony-free, soldering flux acc. To DIN EN 29454, 1.1.2.B (F-SW 26), S-Pb60Sn40, rosin halide-activated



Art. no.	Ø	Sn%	Roll/g	kg	PU
160060	2	40	100	0,106	1
160062	2	40	250	0,257	1

Fittings' solder acc. to DIN EN 29453

low antimony content, soldering flux acc. to DIN EN 29454, 2.1.3.B (F-SW 24), S-Pb60Sn40, ammonium chloride based, organically prepared



Art. no.	Ø	Sn%	Roll/g	kg	PU
160070	1,5	40	1 m	0,018	1
160072	2	40	100	0,103	1
160074	2	40	250	0,258	1

Fittings' solder acc. to DIN 29453, solid

S-Pb50Sn50 low antimony content



Art. no.	Ø	Sn%	Roll/g	kg	PU
160080	3	50	100	0,109	1
160082	3	50	250	0,266	1

Solder lead-free (RoHS-directive)

Solder wire according to DIN EN 29453

lead-free special alloy, 2.5% flux percentage according to DIN EN 29454, 1.1.2.B (EN-61190-ROLO), 1.00 mm of Ø, 0,100 kg spools S-Sn99Cu1, DIN EN 29453 (Sn99, 3Cu0,7 - eutectic)



Art. no.	Ø	Sn%	Roll/g	kg	PU
160420	1	99	100	0,114	1
160422	1	99	250	0,262	1
160424	1	99	500	0,536	1
160426	1	99	1000	1,000	1
160430	1,5	99	100	0,112	1
160442	1,5	99	250	0,266	1
160444	1,5	99	500	0,500	1
160446	1,5	99	1000	1,000	1
160450	2	99	100	0,109	1
160452	2	99	250	0,257	1
160454	2	99	500	0,527	1

Solder wire according to Din EN 29453

lead-free special alloy, 3.5% flux percentage according to DIN EN 29454, 1.1.3.B (EN-61190-ROLO), 1.00 mm of Ø, 0, 100 kg spools S-Sn99Cu1, DIN EN 29453 (Sn99, 3Cu0,7 - eutectic)



Art. no.	Ø	Sn%	Roll/g	kg	PU
160402	1	99	100	0,114	1
160404	1	99	250	0,250	1
160406	1	99	500	0,500	1
160408	1	99	1000	1,000	1
160412	1,5	99	100	0,114	1
160414	1,5	99	250	0,258	1
160416	1,5	99	500	0,535	1
160418	1,5	99	1000	1,000	1

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Cleaning wipes

Industrial cleaning wipes

HAUPA Industrial cleaning wipes are **perfect for washing hands as well as cleaning tools and work surfaces**. They remove stubborn dirt fast and efficiently such as grease, paint, oil, tar, ink, silicone, glue and much more making them the **ideal companions for workshops, offices, home or for those on the go**. These practical wipes have been impregnated with a solvent-free, industrial hand cleaner, which has been dermatologically tested and is also suitable for sensitive skin. The individually perforated wipes ensure easy extraction. The practical and solid storage container with lock-lid prevents the wipes from drying out.

Contents: 40 wipes, each 17 x 25 cm.

The must have for every cleaning job!



Effortlessly removes:

- Grease
- Paint
- Oil
- Tar
- Ink
- Silicone
- Glue
- and more...



Art. no.	TL	width	kg	PU
150600	170	250	0,190	1



Chisels, Hammers



Chisels, centre punches

Flat chisels to DIN 6453 A, flat oval shank

chrome vanadium air hardenend steel, golden varnishes



Art. no.	CW	TL	mat/S	mat/S1	kg	PU
180008	28	200	23	13	0,392	1
180010	28	250	23	13	0,490	1
180012	32	300	26	13	0,606	1

Stone chisels, flat oval shank

chrome vanadium air hardenend steel, golden varnishes



Art. no.	CW	TL	mat/S	mat/S1	kg	PU
180042	28	250	20	12	0,394	1
180044	32	300	23	13	0,584	1

Stone chisels, octagonal shank

chrome vanadium air hardenend steel, golden varnishes



Art. no.	CW	TL	mat/S	mat/S1	kg	PU
180062	28	250	16	16	0,387	1
180064	30	300	18	18	0,595	1

Jointing chisel

chrome vanadium air hardenend steel, golden varnishes, for light works, the wide and flat cutting edge allows a quick working and avoid a breaking out of the wall



Art. no.	CW	TL	mat/S	mat/S1	kg	PU
180076	26	250	26	7	0,302	1

Stone chisels, octagonal shank

chrome vanadium air hardenend steel, golden varnishes



Art. no.	CW	TL	mat/S	mat/S1	kg	PU
180082	14	250	14	14	0,358	1
180084	16	300	16	16	0,573	1

Electricians' chisels

chrome vanadium air hardenend steel, golden varnishes



Art. no.	CW	TL	mat/S	mat/S1	kg	PU
180090	8	200	6	6	0,052	1
180092	10	250	8	8	0,119	1
180094	12	250	8	8	0,121	1

Centre punch to DIN 7250

octagonal shank, chrome vanadium air hardenend steel, golden varnishes



Art. no.	TL	Ø	kg	PU
180120	120	12	0,091	1

Hammers, hatchets

Firmer chisels DIN 5139

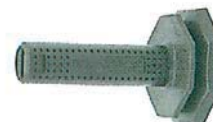
with bevelled edges and polished wooden handle and cutting edge protector



Art. no.	CW	BL	TL	kg	PU
180464	14	150	280	0,120	1
180466	16	150	280	0,132	1
180468	18	150	280	0,161	1
180470	20	150	280	0,170	1
180474	24	150	280	0,193	1

Rubber hand guard

total length 140 mm, max. Ø 90 mm, for chisels flat oval shank



Art. no.	size	mat/S	mat/S1	kg	PU
180110	3	23	13	0,125	1

Pin punch set

golden varnishes, in folding metal case



Art. no.	Ø	kg	PU
180170	3 - 4 - 5 - 6 - 8 - 10 mm	0,502	1

Household hatchet

varnished and polished cutting edge, DIN 5131



Art. no.	kg	PU
180173	0,600	1

Claw hammer

American model, 16 Oz, wooden handle



Art. no.	size	kg	PU
180321	16	0,621	1

Hammers and handles

Claw hammer

American model, 16 Oz, fibreglass handle



Art. no.	size	kg	PU
180323	16	0,748	1

Sledge hammer to DIN 6475

with steel pipe handle and rubber grip



Art. no.	HW	kg	PU
180290	1000	1,210	1
180292	1250	1,504	1

Engineers' hammer DIN 1041

with polished hickory handle, with steel handle protection



Art. no.	HW	kg	PU
180182	200	0,238	1
180184	300	0,370	1
180186	400	0,470	1
180188	500	0,622	1

Sledge hammer to DIN 6475

with polished, fluted hickory handle, with steel handle protection



Art. no.	HW	kg	PU
180300	1000	1,093	1
180302	1250	1,375	1

Engineers' hammer DIN 1041

with steel pipe handle and rubber grip



Art. no.	HW	kg	PU
180200	300	0,552	1
180202	500	0,740	1

Plastic hammer

with replaceable celluloid striking faces and ash handle



Art. no.	Ø	kg	PU
180334	32	0,328	1
180346	replacement heads	0,460	1

Engineers' hammer DIN 1041

with red ultramid handle, low vibration



Art. no.	HW	kg	PU
180232	300	0,410	1

Engineers' hammer

English pattern, ball pin



Art. no.	HW	kg	PU
180274	340	0,416	1
180276	450	0,485	1

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Steel stamps

Steel stamp, figures (0 - 9) DIN 1451



Art. no.	size	set	kg	PU
130200	3	0-9	0,160	1
130201	4	0-9	0,243	1
130202	5	0-9	0,300	1
130203	6	0-9	0,450	1
130204	8	0-9	0,650	1
130206	10	0-9	0,800	1

Steel stamp, letters (A - Z), DIN 1451



Art. no.	size	set	kg	PU
130208	3	A-Z	0,461	1
130209	4	A-Z	0,650	1
130210	5	A-Z	0,850	1
130211	6	A-Z	1,200	1
130212	8	A-Z	1,950	1
130214	10	A-Z	2,479	1

Files

Warding files DIN 7283

Set: 6 files with wooden handle, section A, B, C, D, E, F in plastic wallet



Art. no.	TL	kg	PU
190120	100	0,108	1

6-pieces

Contact files

Set: 6 files in plastic wallet



Art. no.	TL	kg	PU
190126	130	0,078	1

6-pieces

File assortments

Set: 5 files in plastic wallet, files with plastic handle

Form: round
square
flat
half round
triangular



Art. no.	TL	kg	PU
190130	100	0,784	1
190132	200	0,799	1

bastard cut 1
smooth cut 3

Knives



Cable stripping knives

Cable stripping or lead tube knives

with wooden handle



Art. no.	BL	kg	PU
200008	40	0,047	1

Cable stripping knives

solid handle, shock-proof synthetic, blade with straight and rounded scraper



Art. no.	BL	type	kg	PU
200010	60	1	0,073	1

Cable stripping knives

with black plastic scales, stainless blade with scraper



Art. no.	BL	type	kg	PU
200011	60	1	0,082	1

Cable stripping knives

with wooden scales, blade with scraper



Art. no.	BL	type	kg	PU
200012	60	1	0,079	1

Cable stripping knives

with wooden scales, blade and reamer



Art. no.	BL	type	kg	PU
200014	60	2	0,078	1

Cable stripping knives

with wooden scales, blade, reamer and screwdriver



Art. no.	BL	type	kg	PU
200016	60	3	0,089	1

Cable stripping knives

with plastic scales, 2 blades, reamer and screwdriver



Art. no.	BL	type	kg	PU
200018	60	4	0,092	1

Cable stripping knives

Utility knives

manufactured from zinc di-cast, with 4 straight blades and 1 hook blade



Art. no.	BL	TL	kg	PU
200026	20	145	0,192	1
200028	Utility knives hook form		0,004	1
200030	Utility knives straight form		0,005	1

Utility metal knives

Cutting of plastic, wallpaper, cardboards, leather, plywood, carpets, with automatic blades locking, reserve blade in the handle



Art. no.	CW	kg	PU
200027	18	0,150	1
200032	spare blades		0,054

Utility metal knives

Cutting of plastic, wallpaper, cardboards, leather, plywood, carpets, with automatic blades locking, reserve blade in the handle



Art. no.	CW	kg	PU
200025	9	0,072	1
200025/KL	spare blades		0,050

Utility knives "EXTRA" with spare blades

Cutting of plastic, wallpaper, cardboards, leather, plywood, carpets, with automatic blades locking, reserve blade in the handle, softgrip, including 2 replacement blades



Art. no.	BL	kg	PU
200051	25	0,022	1

Tin snips, tube cutters, saws

Hole-cutting tin snips

with polished blade, carbon steel, figure cuts (large radii)



Art. no.	TL	kg	PU
200140	250	0,523	1

Figure tin snips

with polished blade, carbon steel, right-hand cutting, for short straight and figure cutting (small radii)



Art. no.	TL	kg	PU
200154	260	0,513	1

Small tube cutter

with 1 cutting wheel and dual roller guides
Ø 1/8" - 5/8"



Art. no.	Ø	kg	PU
200190	3-16	0,107	1
200192	loose spare wheels		0,025

Tube cutter

with 1 cutting wheel and dual roller guides, retractable burr remover,
Ø 1/8" - 1 3/8"



Art. no.	Ø	kg	PU
200194	3-35	0,401	1
200196	loose spare wheels		0,006

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Saws, saw blades

Junior hacksaw

strong frame, nickel-plated



Art. no.	type	Sbl.	kg	PU
200280	metal	150	0,149	1

Junior hacksaw DIN 6473 C

hacksaw blade for metal



Art. no.	type	Sbl.	kg	PU
200284	metal	150	0,069	1

Junior hacksaw

heavy type, with pistol type handle and hacksaw blade for metal, form A



Art. no.	type	Sbl.	kg	PU
200285	metal	150	0,164	1

Hand saw „PUK“

with hacksaws blade for metal, with fixed, varnished wooden handle



Art. no.	type	Sbl.	kg	PU
200290	metal	150	0,100	1

Hand saw „PUK“

with adjustable, varnished wooden handle, in plastic bag



Art. no.	type	Sbl.	kg	PU
200292	metal	150	0,119	1

Hacksaw blades „PUK“

acc. to DIN 6494C,
for Art. No. 200292, 200280, 200290, 200284, 200285, 110558



Art. no.	type	Sbl.	kg	PU
200286	wood	150	0,036	1
200288	universal	150	0,036	1

Hacksaw frame

steel pipe with flat oval section, bright chrome-plated, tension bolt made from steel, form A



Art. no.	type	Sbl.	kg	PU
200304	metal	300	0,408	1

Hacksaw blades to DIN 6494

type A, single sided blade HSS-Bi-metal



Art. no.	type	Sbl.	kg	PU
200310	metal	300	0,016	1

INFO

HAUPA high-performance LED lamps/torches for daily work use

Extremely high illumination performance with minimum battery load thanks to highly modern **CREE LED** bulbs



LED lamps/torches

LED „Mini Torch“



- Compact
- Very small and light
- Extremely high lighting performance
- LED 3 Watt CREE XR-E
- 1xAAA battery



Art. no.	mm	kg	PU
130310	20 x 92,5	0,080	1

LED „Focus Torch“



- Adjustable focus for near and far
- LED 3 Watt CREE XP-E
- 3xAAA batteries



Art. no.	mm	kg	PU
130312	34,4 x 115	0,200	1

LED „IP67 Torch“



- IP67, dust-tight, protected against brief submersion (water-tight)
- 1 x switch operation 100 % lighting performance
- 2 x switch operation 30 % lighting performance
- LED 5 Watt CREE XP-G
- 4xAAA batteries



Art. no.	mm	kg	PU
130314	40,5 x 141	0,440	1

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LED lamps/torches

LED „RC Torch“

LED 5W CREE XP-G	Ø40,5x 180 mm
250 Lm	Lifetime 30000 h
Aircraft Grade Alu- minium	200 m
IP65	4xAAA
~ 100-240V AC = 12V DC	AKKU Li-Ion 2200 mAh 3.7V

- Rechargeable battery, lithium-ion 2200 mAh 3.7 V
- Integrated charging unit
- 1 x switch operation 100 % lighting performance
2 x switch operation 30 % lighting performance
- Additional battery holder as backup
- Deep discharge protection
- LED 5 Watt CREE XP-G
- 4xAAA batteries
- Charging cable 220 Volt, charging cable for automobile
- Battery holder (battery operation is an alternative)



Art. no.	mm	kg	PU
130316	40,5 x 180	0,859	1

LED „Headlight“ headlamp

LED 3W CREE XP-E	70 Lm
Lifetime 30000 h	ABS
80 m	IP65
2xAA	

- Very light and balanced headlamp (battery compartment at the rear)
- 4 lighting levels:
Switch position 1 = 100 % lighting performance
Switch position 2 = 80 % lighting performance
Switch position 3 = 30 % lighting performance
Switch position 4 = red LED
- LED 3 Watt CREE XP-E
- 2xAA batteries



Art. no.	kg	PU
130318	0,180	1

Holster for LED torches

suitable for item numbers: 130312, 130314



Art. no.	width	depth	height	kg	PU
130322	30	10	100	0,180	1

LED „Working Lamp“ handheld lamp

LED 3W CREE XP-E	260x 105x 100 mm
100 Lm	Lifetime 10000 h
AKKU 2200 mAh 3.7V	200 m
IP54	~ 100-240V AC = 12-24V DC
CE	

- Extremely large lighting range (Working area) light cone
- Rechargeable battery, lithium-ion 2000 mAh 3.7 V
- Integrated charging unit
- 1 x switch operation 100 % lighting performance
2 x switch operation 20 % lighting performance
3 x switch operation gives a flash
- Deep discharge protection
- Holding magnetic on the rear
- Emergency light function in the event of power failure (Approximately 19 hours of illumination)
- LED 3 Watt CREE XP-E
- Charging cable 220 Volt
Charging cable for automobile
- Wall mount, colour disks



Art. no.	mm	kg	PU
130320	260 x 105 x 100	0,180	1

Tool cases



Classification for tool cases

	Type:
***	ABS
****	ABS+

	Type:
*****	ABSfly
*****	HDPE

Specifications

Type	Art. No.	Description	Dimensions	Colour	Document compartment	Combination lock	Properties
ABS	220031	Tool case „Start up Profi“ empty	470 x 200 x 360	black	yes	yes	<ul style="list-style-type: none"> • Impact-resistant ABS material • Surrounding impact edge protection • High quality metal locks, lockable • Stable and hardened aluminium frame • Ergonomic handle • 3 metal hinges • Including carrying strap • Tested under continuous professional usage situations up to 20 kg
	220023	Trolley „Start up Profi“ empty	470 x 220 x 360	black	yes	yes	
ABS+	220076	VDE-Tool case „Pendant“ empty	460 x 180 x 310	red	yes	yes	<ul style="list-style-type: none"> • Impact-resistant ABS material • Extra wide surrounding impact edge protection • High quality metal locks, lockable • Extra stable and hardened aluminium frame • 3 metal hinges • Particularly stable lid holder • Tested under continuous professional usage situations up to 25 kg
	220068	Tool case „Omega“ empty	460 x 180 x 310	black	yes	yes	
	220038	Tool case „Aktion“ empty	460 x 160 x 310	black	no	no	
	220073	Tool case „Netzwerk“ empty	460 x 160 x 310	black	no	no	
	220042	Tool case „Omega Max“ empty	470 x 200 x 360	black	yes	yes	
	220048	Tool case „Omega Trolley“ empty	470 x 220 x 360	black	yes	yes	
ABSfly	220032	VDE-Tool case „Venus“ empty	460 x 180 x 310	red	yes	yes	<ul style="list-style-type: none"> • Flight-suitable • Extremely impact-resistant ABS-PRO material • Extra wide surrounding impact edge protection • High quality metal die cast locks, lockable • Extremely stable and specially hardened aluminium frame • 3 riveted metal hinges • Particularly stable lid holder • Tested under continuous professional usage situations up to 40 kg
	220034	Tool case „Merkur“ empty	460 x 180 x 310	black	yes	yes	
HDPEfly	220248	HDPE trolley, flight-suitable	470 x 220 x 360	black	yes	no	<ul style="list-style-type: none"> • Flight-suitable and break-proof • Extreme durability thanks to HDPE shell with soft-touch look • Corners additionally reinforced with aluminium • Extra wide surrounding impact edge protection • Locking, extra-long trolley system • Ball-bearing mounted easy running castors • High quality metal die cast locks, lockable • Additional combination lock • Extremely stable and specially hardened aluminium frame • 3 riveted metal hinges • Particularly stable lid holder • Screw-fitted handle and locks • Tested under continuous professional usage situations up to 40 kg



Nylonbags

HAUPA Tool belt "Tool Pouch"

7 pockets to keep your tools handy with hammerloop and tapeholder belt loop with strong snap-button for easy attachment to belt. Material: extra strong 600D polyester



Art. no.	width	depth	height	kg	PU
220103	150	30	260	0,102	1

HAUPA Belt bag "Tool belt"

8 compartments for your tools, reinforced main compartment, steel rivets for high reliable quality. Big front compartment for nails or measurement tape, hammer sleeve, fits up to 135 cm hips, material: extra strong 600D polyester, colour: green, black



Art. no.	width	depth	height	kg	PU
220105	200	100	300	0,326	1

Tool case „Tool bag“

Tool bag with inner and outer tool compartments, rubber-reinforced base. Waterproof and dirt resistant, double cross-seam for heavy loads, removable shoulder strap, adjustable, 10 compartments outside (various sizes), 10 compartments inside (various sizes), belt for spirit level (outside), material: extra strong 600D polyester, colour: green, black



Art. no.	width	depth	height	kg	PU
220061	320	190	280	1,507	1

HAUPA "Big Box"

very big box look alike Tool bag, easy approach to the tools, inside and outside compartments for tools, reinforced handles, material: extra strong 600D polyester, colour: green, black



Art. no.	width	depth	height	kg	PU
220095	410	240	320	1,937	1

"Supply" service bag

Document pocket, pockets for tools and measuring devices, bag for small parts, large pockets, rubber rings, separate main compartment (padded) for laptop and documents, can be divided using the removable wall section. Notebook pocket up to 15". Colour: black/green.

Features:

- Ergonomic handle
- Adjustable carrying strap with shoulder pad
- Business card pocket for identification purposes
- 2 large side zipped pockets (one of which can be opened fully and has inserts)
- 2 large folding side pockets, can be removed individually, one of which as a small pocket on the front
- Polytex straps for transport securing



Art. no.	width	depth	height	kg	PU
220292	510	220	335	3,000	1

Tool wallets

of black linen, with leather strap fastening



Art. no.	width	width	depth	kg	PU
220006	600	600	310	0,452	1

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Nylonbags

HAUPA Tool bag „Tool Pouch“

7 pockets to keep your tools handy with hammerloop and tapeholder belt loop with strong snap-button for easy attachment to belt. Material: extra strong 600D polyester.

Contents:

- 2C combination pliers
- 2C electricians' screwdriver
- 2C cross slotted screwdriver PH
- Cable stripper, manual
- VDE/GS voltage tester



Art. no.		empty	kg	PU
220506	5-pieces	220103	0,789	1

HAUPA Tool belt „Standard“

8 compartments for your tools, reinforced main compartment, steel rivets for high reliable quality. Big front compartment for nails or measurement tape, hammer sleeve, fits up to 135 cm hips. Material: extra strong 600D polyester, colour: green, black

Contents:

- 2C cross slotted screwdrivers PH, size 1 and 2
- 2C electrician's screwdriver
- 2C combination pliers 200 mm
- 2C side cutters 160 mm
- Engineers' hammer, 300 g
- Cable stripping knife, 1-piece
- Measuring tape, 3 m



Art. no.		empty	kg	PU
220213	8-pieces	220105	2,222	1

HAUPA „Tool bag“

Tool bag with inner and outer tool compartments, rubber-reinforced base. Comes complete with 22 tools. Features: Waterproof and dirt resistant, rubber-reinforced base, double cross-seam for heavy loads, removable shoulder strap, adjustable, 10 compartments outside (various sizes), 10 compartments inside (various sizes), belt for spirit level (outside), material: extra strong 600D polyester, colour: green, black.

Contents:

- 2C combination pliers, 200 mm
- 2C side cutters, 160 mm
- 2C telephone pliers, straight
- 2C wire stripping pliers, 160 mm
- VDE screwdriver set, 6 electrician's screwdrivers
- Voltage tester
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Water brush
- Paint scraper, 40 mm
- Electrician's chisel, 10 x 250 mm
- Stone chisel, 300 mm
- Engineers' hammer, 300 g
- Sledge hammer, 1000 g
- Plaster container
- Cable knife, 1-pieces
- PUK pocket saw, fixed handle
- Carpenter's pencil



Art. no.		empty	kg	PU
220500	22-pieces	220061	6,350	1

HAUPA „Trend Box Plus“

Tool bag for professional use. With inside and outside pockets, including 25 tools, easy access to the tools, inside and outside compartments for tools, reinforced handles, material: extra strong 600D polyester, colour: black/green. Big box 220095.

Contents:

- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C combination pliers, 180 mm
- 2C telephone pliers, 200 mm
- 2C side cutters, 160 mm
- 2C water pump pliers, 240 mm
- 2C wire stripping pliers, 160 mm
- Bit-Box, 17-pieces
- Voltage tester „Basic“
- Allen keys set, 7-pieces
- Adjustable single-head wrench
- Chalk - blue
- Impact cord roller
- Carpenters' pencil
- Engineers' hammer 300 g
- Cable stripping knife
- Junior hacksaw, heavy 150 mm
- Cable cutters 160 mm insulatet
- Combi-Drillbox
- Spanners for switch-cabinets
- Folding rule, fibre glass, 2 m



Art. no.	empty	kg	PU
220556	25-pieces	220095	6,430 1

HAUPA „Trend Box“

Tool bag for professional use. With inside and outside pockets, including 20 tools, easy access to the tools, inside and outside compartments for tools, reinforced handles, material: extra strong 600D polyester, colour: black/green. Big box 220095.

Contents:

- 2C combination pliers, 200 mm
- 2C side cutters, 160 mm
- 2C telephone pliers, straight, 200 mm
- 2C water pump pliers, 240 mm
- VDE screwdrivers set, 6 electricians' screwdrivers
- Cable ties, 292 x 3,6 mm
- Cabinet spirit level
- Filling knife, 40 mm
- Electrician's chisel, 10 x 250 mm
- Voltage tester, VDE/GS
- Fitter's hammer, 300 g
- Universal stripper
- Measuring tape, 3 m
- PUK pocket saw, fixed handle
- Carpenters pencil



Art. no.	empty	kg	PU
220550	20-pieces	220095	5,540 1

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Service bags

"Supply Max" service bag

Document pocket, pockets for tools and measuring devices, bag for small parts, large pockets, rubber rings, separate main compartment (padded) for laptop and documents, can be divided using the removable wall section. Notebook pocket up to 15". Colour: black/green.

Features:

- Ergonomic handle
- Adjustable carrying strap with shoulder pad
- Business card pocket for identification purposes
- 2 large side zipped pockets (one of which can be opened fully and has inserts)
- 2 large folding side pockets, can be removed individually, one of which as a small pocket on the front
- Polytex straps for transport securing



Contents:

- 2K-VDE electrician's screwdriver 2.5 x 75, 3.5 x 100, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2K-VDE screwdriver PH 1 + 2
- 2K-VDE screwdriver PZ/FL 1 + 2
- Cable cutter 160 mm dip-insulated
- VDE side cutter 165 mm
- VDE combination pliers 185 mm
- VDE-long chain nose pliers straight
- Electronic side cutter 110 mm
- Electrician's scissors, stainless steel 150 mm
- Switching cabinet key
- Adjustable single-head wrench 24 mm
- Bit set, 33 pieces
- All-purpose industrial cleaning cloths
- Cable-ties, black, UV-resistant 203 x 4.6 mm
- Cable-ties, natural, 203 x 4.6 mm
- Automatic strippers 0.08 - 6.0 qmm
- LED head lamp 75 lm
- VDE cable knife with replaceable blades 50 mm
- Cutting knife "EXTRA" with replacement blades 19 mm
- Voltage tester "Profi LCD Plus" 12 - 1,000 V
- Electrical insulating tape VDE 15 mm x 10 m, Rainbow pack, 263820, 10 colours
- Measuring tape 3 m
- HAUPA "Flex Bag"
- Set X-CrimpPlus



Art. no.		empty	kg	PU
220293	30-pieces	220292	6,350	1

"Supply Plus" service bag

Document pocket, pockets for tools and measuring devices, bag for small parts, large pockets, rubber rings, separate main compartment (padded) for laptop and documents, can be divided using the removable wall section. Notebook pocket up to 15". Colour: black/green.

Contents:

- 2K-VDE electrician's screwdriver 2.5 x 75, 3.5 x 100, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2K-VDE screwdriver PH 1 + 2
- 2K-VDE screwdriver PZ/FL 1 + 2
- 2K-VDE-long chain nose pliers straight
- Cable cutter 160 mm dip-insulated
- VDE side cutter 165 mm
- VDE combination pliers 185 mm
- Electronic side cutter 110 mm
- Electrician's scissors, stainless steel 150 mm
- Cutting knife "EXTRA" with replacement blades 19 mm
- Adjustable single-head wrench 24 mm
- All-purpose industrial cleaning cloths
- Cable-ties, black, UV-resistant 203 x 4.6 mm
- Electrical insulating tape VDE 15 mm x 10 m, Rainbow pack, 263820, 10 colours
- Voltage tester "Basic" 6 - 400 V
- Switching cabinet key
- Measuring tape 3 m
- LED head lamp 75 lm



Art. no.		empty	kg	PU
220294	24-pieces	220292	6,350	1

"Supply Basic" service bag

Document pocket, pockets for tools and measuring devices, bag for small parts, large pockets, rubber rings, separate main compartment (padded) for laptop and documents, can be divided using the removable wall section. Notebook pocket up to 15". Colour: black/green.

Contents:

- 2K-VDE electrician's screwdriver 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2K-VDE screwdriver PH 1 + 2
- 2K-VDE screwdriver PZ/FL 1 + 2
- VDE side cutter 165 mm
- VDE combination pliers 185 mm
- Cable cutter 160 mm dip-insulated
- Electrical insulating tape VDE 15 mm x 10 m, Rainbow pack, 263820, 10 colours
- Measuring tape 3 m



Art. no.		empty	kg	PU
220298	14-pieces	220292	6,350	1

Backpacks

Backpack

Tool backpack not only for the trainee, base shell rubber reinforced, double cross seam for high load. Material: extra strong 600D polyester, watertight and dirtrepellent, colour: black/green.



Art. no.	width	depth	height	kg	PU
220275	420	170	380	1,880	1

Backpack „Basic“

Tool backpack not only for the trainee, base shell rubber reinforced, double cross seam for high load. Backpack 220275.

Contents:

- 2C-VDE electricians' screwdriver set, 6 pcs.
- 2C-Combination pliers 180 mm
- 2C-Side cutters 160 mm
- 2C-Telephone pliers 160 mm
- 2C-Wire stripping pliers 160 mm
- Voltage tester 100-250 V
- Wire stripper, hooked blade, 8-28 mm Ø
- Stone chisel, 32x300 mm
- Electricians' chisel, 10x250 mm
- Engineers' hammer, 300 g
- Sledge hammer, 1000 g
- Cable knife, 1 blade
- PUK pocket saw, fixed handle
- Paint scraper, 40 mm
- Carpenters' pencil
- Water brush
- Plaster cup



Art. no.	empty	kg	PU
220278	220275	6,660	1

Backpack „Basic VDE“

Tool backpack not only for the trainee, base shell rubber reinforced, double cross seam for high load. Backpack 220275.

Contents:

- 2C-VDE electricians' screwdrivers 2,5 x 75, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C-VDE combination pliers, 185 mm
- 2C-VDE side cutters, 165 mm
- 2C-VDE telephone pliers, 200 mm
- 2C-VDE wire stripping pliers, 160 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1 blade
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Paint scraper, 40 mm
- Voltage tester, blade 50 mm
- Measuring tape, 3 m
- Water brushes



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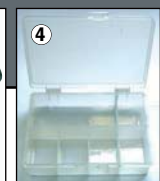
Art. no.	empty	kg	PU
220290	220275	4,200	1

Material:

extra strong 600D polyester, watertight and dirtrepellent, colour: black/green.

Features:

- 1 Front compartment with 7 compartments narrow and wide
- 2 2 Side compartments with zipper
- 3 inside 6 compartments small and 6 compartments wide
- 4 double bottom with small parts box



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Belts

Tool belt

10 compartments to organize your tools, hammer sleeve and tapeholder belt loop for easy attachment to belt, materials: extra strong 600D polyester, colour: black/green



Art. no.		width	height	kg	PU
220224	empty	880	280	0,350	1

Tool belt „Basic“

10 compartments to organize your tools, hammer sleeve and tapeholder belt loop for easy attachment to belt, materials: extra strong 600D polyester, colour: black/green.

Contents:

- 2C-VDE-Electricians' screwdriver 5,5x125 mm
- 2C-VDE-Electricians' screwdriver 3x100 mm
- 2C-VDE-Cross slotted screwdrivers PH 2
- Measuring tape 3 m
- 2C-Combination pliers 180 mm
- 2C-Side cutters 160 mm
- VDE/GS Voltage tester 125-250 V
- Utility metal knife
- Wire stripper, hooked blade, 8-28 mm Ø
- Cable cutter with stripping function



Art. no.		empty	kg	PU
220280	10-pieces	220224	2,120	1

Jackets

HAUPA „Tool Jacket“, empty

Tool jacket for quick access to your tools. Quick assembly with strong zip, inside and outside pockets, particularly suitable for use in hot temperatures.

Colour: green, black, width 500 mm, height 580 mm.

Non-slip shoulder belt, breathable inside net, 2 document holders at back, 5 screwdriver pockets (with rubber adjustment), 1 pen pocket, 1 mobile phone pocket (Velcro®), 1 shear pocket (with rubber adjustment), 2 pliers pockets (pushbutton fastener), 1 voltage detector pocket (Velcro®), 1 pocket for small parts (Velcro®), hammer loop.



Art. no.		width	height	kg	PU
220	empty	500	580	0,764	1

HAUPA „Tool Jacket“

Tool jacket for quick access to your tools. Tool jacket for fitters including 10 tools. Quick assembly with strong zip, inside and outside pockets, particularly suitable for use in hot temperatures. Colour: green, black, width 500 mm, height 580 mm.

Non-slip shoulder belt, breathable inside net, 2 document holders at back, 5 screwdriver pockets (with rubber adjustment), 1 pen pocket, 1 mobile phone pocket (Velcro®), 1 shear pocket (with rubber adjustment), 2 pliers pockets (pushbutton fastener), 1 voltage detector pocket (Velcro®), 1 pocket for small parts (Velcro®), hammer loop.

Contents:

- 2C-VDE electrician's screwdriver with PZ/FL profile
- 2C-VDE electrician's screwdrivers, 75, 10, 125 mm
- 2C cross slotted screwdriver, PH, 80 mm
- 2C electrician's scissors
- Combination pliers VDE
- Diagonal cutter VDE
- Voltage tester "Basic"
- Engineer's hammer 300 g



Art. no.		empty	kg	PU
220560	10-pieces	220053	2,700	1

Tool cases

Tool case "Kick-Off"

Solid Nylon tool case for the trainee - with 20 tools.

Contents:

- 2C-VDE telephone pliers, 200mm
- 2C-VDE combination pliers, 180mm
- 2C-VDE side cutters, 160mm
- 2C-VDE wire stripping pliers, 160mm
- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150mm
- 2C-VDE cross slotted screwdrivers PH, size 1+2
- Cable knife, 1-piece
- PUK pocket saw, fixed handle
- Brush
- Electricians' chisel, 10 x 250mm
- VDE/GS Voltage tester, blade 50 mm, 100 - 250 V
- Stone chisel, 250mm
- Engineers' hammer, 300 g
- Double-face sledge hammer, 1000 g
- Spatula, 40mm
- Plaster container



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Art. no.		empty	kg	PU
220574	20-pieces	220573	7,650	1

Tool case "Kick-Off Light"

Solid Nylon tool case for the trainee - with 10 tools.

Contents:

- 2C-VDE telephone pliers, 200mm
- 2C-VDE combination pliers, 180mm
- 2C-VDE side cutters, 160mm
- 2C-VDE wire stripping pliers, 160mm
- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150mm
- 2C-VDE cross slotted screwdrivers PH, size 1+2



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Art. no.		empty	kg	PU
220575	10-pieces	220573	5,200	1

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Leather tool cases

Tool case „Tradition“ and „Fan“

made of black leather, with 2 inside loops and 2 snap-locks.

220022: Tradition
220024: Fan



Art. no.	width	depth	height	kg	PU
220022	340	110	170	0,821	1
220024	370	115	255	1,669	1

Tool case „Achat“

made of black leather, all outside edges reinforced with Alu-squares, with galvanized floor-onset of sheet-metal collapsable front, snap-fasteners riveted on side, side-loops for carrying-belts, 2 snap-locks, all 4 inside with tool-compartments and adjustable loops, without carrying belts



Art. no.	width	depth	height	kg	PU
220052	420	165	320	3,113	1

Brass padlocks

body made from a solid brass block, hardened steel shackle, with 2 keys



Art. no.	size	kg	PU
220110	30	0,085	1
220112	40	0,135	1

Carrying belts

with 2 spring hooks



Art. no.	kg	PU
220054	0,114	1

Tool case „Favorit - Admiral - Profi“

made of black leather, with galvanized floor-onset of sheet-metal collapsable front, with locks, side-, front-, rear-parts as well as bottom and cover reinforced, inside with tool-compartments and adjustable loops, without carrying belts.

220060: Favorit
220064: Admiral
220066: Profi



Art. no.	width	depth	height	kg	PU
220060	365	150	250	2,126	1
220064	470	145	315	2,990	1
220066	420	150	250	2,378	1

Tool case „Comet“

made of black leather, all outside edges reinforced with Alu-squares, with galvanized floor-onset of sheet-metal collapsable front, snap-fasteners riveted on side, side-loops for carrying-belts, 2 snap-locks, all 4 inside with tool-compartments and adjustable loops, without carrying belts



Art. no.	width	depth	height	kg	PU
220070	420	165	320	3,939	1

Leather tool cases

Tool case „Phoenix“

Tool case for electrical contractor, made of black neat's leather, with 39 tools. Case 220070.

Contents:

- 2C long flat nose pliers, 160 mm
- 2C telephone pliers, 200 mm
- 2C combination pliers, 180 mm
- 2C side cutters, 160 mm
- 2C wire stripping pliers, 160 mm
- 2C water pump pliers, 240 mm
- ESD electronic side cutters, 115 mm
- ESD electronic needle nose pliers, 130 mm
- Crimping pliers multi insulated and non-insulated crimping terminals
- 2C engineers' screwdrivers 100, 125, 150 mm
- 2C electrician's screwdrivers 2.5 x 75, 4 x 125, 5 x 150, 5 x 175 mm
- 2C cross slotted screwdrivers PH, size 0, 1 and 2
- 2C cross slotted screwdrivers PZ, size 1 and 2
- Electronic screwdriverset, 7-pieces
- 2C socket wrenches, 5.5, 12, 17
- Reamer, round
- Allen key set, 8-pieces
- Adjustable wrench, 340 mm
- Cable stripper hooked blade, 8 - 28 mm Ø
- Combination snips, 190 mm
- PUK® pocket saw, fixed handle
- Electrician's chisel, 10 x 250 mm
- Folding rules, 2 m
- Light metal spirit level, 400 mm
- Bench hammer, 300 g
- Cable cutter, max. 16.9 mm
- Cutter knife, plastic
- Cable stripping knife, plastic scales
- VDE/GS voltage tester 125 - 250 V



Art. no.		empty	kg	PU
220156	39-pieces	220070	9,900	1

Tool case „Saphir“

Tool case for electrical contractor, made of green neat's leather, with 31 tools. Case 220070.

Contents:

- 2C long-nosed round pliers, 160 mm
- 2C telephone pliers, 200 mm
- 2C combination pliers, 180 mm
- 2C side cutters, 160 mm
- 2C wire stripping pliers, 160 mm
- 2C water pump pliers, 240 mm
- ESD elektronische side cutters, 115 mm
- 2CE electrician's screwdrivers 2.5 x 75, 4 x 100, 4 x 125, 5 x 150 mm
- 2C engineers' screwdrivers 6 x 100, 7 x 125, 8 x 150 mm
- 2C cross slotted screwdrivers PH, size 1 and 2
- 2C cross slotted screwdrivers PZ, size 1 and 2
- Electronic screwdriverset, 7-pieces
- Socket wrenches SW 5.5, 13, 17
- Allen key set, 8-pieces
- Cable stripper hooked blade, 8 - 28 mm Ø
- Combination snips 190 mm
- „PUK“ pocket saw, fixed handle
- Bench hammer 400 g
- Folding rules 2 m
- Cable cutter max. 16.9 mm
- Cable stripping knife plastic scales
- Voltage tester VDE/GS



Art. no.		empty	kg	PU
220154	31-pieces	220070	8,150	1

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Leather tool cases

Tool case „Novelle 1“

Tool case for electrical contractor, made of black neat's, leather, with 26 tools. Case 220066.

Contents:

- 2C combination pliers, 180 mm
- 2C side cutters, 160 mm
- 2C heavy duty side cutters, 180 mm
- 2C telephone pliers, 200 mm
- 2C telephone pliers, 200 mm, bent
- 2C water pump pliers, 240 mm
- 2C wire stripping pliers, 160 mm
- 2C electrician's screwdrivers, 75, 125, 150 mm
- 2C engineers' screwdrivers, 100, 150 mm
- 2C cross slotted screwdrivers PH, size 1 and 2
- 2C cross slotted screwdrivers PZ, size 1 and 2
- Reamer square
- Cable stripper 0.5 - 4 Ø
- Cable stripper hooked blade, 8 - 28 mm Ø
- Painter scrapers
- Bench hammer 300 g
- Cable stripping knife plastic scales
- Combination snips 140 mm
- „PUK“pocket saw, adjustable handle
- Voltage tester „Basic“
- Voltage tester VDE/GS



Art. no.		empty	kg	PU
220152/1	26-pieces	220066	6,500	1

Tool case „Alpha“

Tool case made from black neat's leather, equipped with 19 tools. Case 220060.

Contents:

- 2C combination pliers, 180 mm
- 2C side cutters, 160 mm
- 2C telephone pliers, 200 mm
- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 and 2
- Voltage tester VDE/GS
- Wire stripping pliers, 0.5 - 4 mm²
- Cable stripper hooked blade, 8 - 28 mm Ø
- Cable knife, 1-pieces
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Stone chisel, 250 mm
- Engineers' hammer, 300 g
- Measuring Tape, 3 m
- Cabinet Level, 250 m



Art. no.		empty	kg	PU
220169	19-pieces	220060	5,200	1

Leather tool cases

Tool case „Start“

Tool case for apprentices, made from black cow hide equipped with 20 tools. Case 220060.

Contents:

- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 and 2
- 2C telephone pliers, 200 mm
- 2C combination pliers, 180 mm
- 2C side cutters, 160 mm
- 2C wire stripping pliers, 160 mm
- Cable knife, 1-piece
- PUK pocket saw, fixed handle
- Double-face sledge hammer, 1000 g
- VDE/GS Voltage tester - blade 50 mm
- Electricians' chisel, 10 x 250 mm
- Stone chisel, 300 mm
- Engineers' hammer, 300 g
- Spatula, 40 mm
- Plaster container
- Brush



Art. no.		empty	kg	PU
220168	20-pieces	220060	6,100	1

Tool case „Start VDE“

Tool case for apprentices, made from black coloured cowhide equipped with 20 tools, case 220060.

Contents:

- 2C-VDE telephone pliers, 200 mm
- 2C-VDE combination pliers, 180 mm
- 2C-VDE cutters, 160 mm
- 2C-VDE wire stripping pliers, 160 mm
- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- Cable knife, 1 blade
- Electricians' chisel, 10 x 250 mm
- VDE/GS Voltage tester - blade 50 mm
- PUK pocket saw, fixed handle
- Brush
- Stone chisel, 300 mm
- Engineers' hammer, 300 g
- Double-face sledge hammer, 1000 g
- Spatula, 40 mm
- Plaster container



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Art. no.		empty	kg	PU
220168/VDE	20-pieces	220060	6,700	1

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Hard-top tool cases

Tool case "Start up" empty

Hard-top case, black, 2 tool kits, document pocket with hook-and-loop fixing, combination lock, bottom half of case equipped with variable partitions, shoulder strap

ABS



Art. no.	width	depth	height	kg	PU
220031	500	210	430	6,740	1

Tool case trolley

rigid case, made of ABS-plastic material, black, integrated rolls and pull-out handle in the bottom, locks of alu-press-casting, empty. Inside: 1 separation for documents, 1 plate for tools, 1 cover-plate with pocket compartments and clip-compartment, 1 bottom-tray

ABS



Art. no.	width	depth	height	kg	PU
220023	460	160	310	6,740	1

Tool case „OmegaMax“

rigid case, black, 28 compartments, 1 combination lock, 1 separation for documents, 2 plate for tools, 2 lockable locks, ground bowl with variables to dividing bars, framed push border

ABS+



Art. no.	depth	height	kg	PU
220042	200	360	6,500	1

Tool case trolley „OmegaMax Trolley“

rigid case, black, 28 compartments, 1 combination lock, 1 separation for documents, 2 plate for tools, 2 lockable locks, ground bowl with variables to dividing bars, framed push border

ABS+



Art. no.	depth	height	kg	PU
220048	200	360	7,000	1

Hard-top tool cases

Tool case „Aktion“

2 tool kits (one with document pocket). Ground bowl with variables to dividing bars

ABS+



Art. no.	width	depth	height	kg	PU
220038	460	160	310	4,580	1

Network service case HAUPA

Hard-top case, black, for electricians and network technicians, 2 tool kits (one with document pocket), bottom half of case contains 8 small removable boxes, secured for transport purposes

ABS+



Art. no.	width	depth	height	kg	PU
220073	460	160	310	4,661	1

Tool case „Omega“

rigid case, black, 28 compartments, 1 combination lock, 1 separation for documents, 2 plate for tools, 2 lockable locks, ground bowl with variables to dividing bars, framed push border

ABS+



Art. no.	width	depth	height	kg	PU
220068	460	180	310	5,039	1

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Hard-top tool cases

Tool case „Merkur“

rigid case, made of ABS-plastic material, black, empty, excellent rib-profile on the outside, high-quality locks, inside with separation for documents, 2 plates with compartments for several tools, 1 tray of ABS-plastics with separations for individual divisions

ABSfly



Art. no.	width	depth	height	kg	PU
220034	460	180	310	5,320	1

Tool case trolley „Fly“

hard-side case, black, 3 tool sections, 2 locks, document pocket, with high-grade fittings, bottom half of case equipped with variable partitions

HDPEfly



Art. no.	width	depth	height	kg	PU
220248	470	360	220	5,320	1

Attractive laser marking

Attractive laser marking for your individual tool case

Show profile – give your tool case your name!
Logo and name in noble laser design on aluminium plate.

You decide where it's placed!



Art. no.	kg	PU
220193	0,020	1

Schild

Hard-top tool cases

Tool case "Start-up"

Hard-top case, black, 2 tool kits, document pocket with hook-and-loop fixing, combination lock, bottom half of case equipped with variable partitions, shoulder strap, 19 tools.

Contents:

- 2C-VDE electrician's screwdrivers 2.5 x 75, 4 x 100, 5.5 x 125 und 6.5 x 150 mm
- 2C-VDE cross slotted screwdrivers, PH, size 1 + 2
- 2C combination pliers, 185 mm
- 2C side cutters, 165 mm
- 2C telephone pliers, 200 mm
- 2C wire stripping pliers, 160 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1-pieces
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Paint scraper, 40 mm
- Voltage tester, blade 50 mm
- Measuring tape, 3 m
- Water brush

ABS



Art. no.		empty	kg	PU
220221	19-pieces	220031	9,180	1

Tool case "Start-up VDE"

Hard-top case, black, 2 tool kits, document pocket with hook-and-loop fixing, combination lock, bottom half of case equipped with variable partitions, shoulder strap, 19 tools.

Contents:

- 2C-VDE electrician's screwdrivers 2,5 x 75, 4 x 100, 5,5 x 125 und 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers, PH, size 1 + 2
- 2C-VDE combination pliers 185 mm
- 2C-VDE side cutters 165 mm
- 2C-VDE telephone pliers 200 mm
- 2C-VDE wire stripping pliers 160 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1-pieces
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Paint scraper, 40 mm
- Voltage tester, blade 50 mm
- Measuring tape,
- Water brushes



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ABS



Art. no.		empty	kg	PU
220235	19-pieces	220031	9,300	1

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Hard-top tool cases

Tool case „EXTRA“

hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, 19 tools, case 220031.

Contents:

- 2C-VDE screwdriver set PZ, 101999/PZ
- 2C-VDE cross slotted screwdrivers PH, size 1
- 2C-VDE cross slotted screwdrivers PH, size 2
- Automatic wire stripper Super Plus 0,2-6 mm²
- Cable stripping knives without hook blade 8-28 mm²
- Voltagetester „Basic“ black
- Combination pliers VDE 185 mm
- Heavy duty diagonal cutters VDE 205 mm
- Long chain nose pliers VDE angled 200 mm
- Carpenters' pencils • Engineers' hammers 300 g
- Electricians' chisels 10x250 mm
- Hand saws „PUK“ mit fixed handle
- Torped-level 225 mm • Folding rules 2 m
- Paint scrapers 40 mm • Water brushes
- Plaster cups • Cable knives 1000 V, 50 mm
- Sledge hammers 1000 g
- Stone chisels, flat oval shank 28x250 mm
- Industrial cleaning wipes
- Crimping pliers crimping pliers for insulated terminals and end sleeves 0,5 - 6 mm
- Stripper 8-13 mm²
- Cable cutters VDE 170 mm
- Electrical insulating tape VDE 15 mm x 10 m, Rainbow pack, 263820, 10 colors
- Voltage tester „Profi plus“
- HAUPA „Multi Check“ digital high-capacity multimeter



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Art. no.		empty	kg	PU
220309	33-pieces	220031	8,680	1

Tool case trolley „Profi Mobil“

hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, 51 tools, case art. 220023.

Contents:

- 2-component socket wrenches set
- 2-component screwdrivers 2,5 x 75, 3 x 100, 4x100, 4 x 125, 5 x 150 mm
- Cross slotted screwdrivers PH, size 1+2, insulated
- Voltage tester „Basic“ 6-400 V
- Electronic screwing bit set, 34-pcs
- HAUPA ratchet screwdriver „Flex“, 58-pcs
- Combination spanners sets, 12-pcs
- Adjustable single-head wrench 24 mm
- Spanners for switch-cabinets
- Engineers' hammer, 300 g
- Cable stripping knives with hook blade, 8-28 mm²
- Utility knives „EXTRA“ with spare blades 19 mm
- Cable cutter with a snap, max. 16,9 mm
- Cable cutter 160 mm, dipped
- 2C combination pliers 185 mm
- 2C diagonal cutter 165 mm
- 2C long chain nose pliers 200 mm
- Automatic wire stripper Super Plus 0,2-6 mm²
- ESD Electronic side cutter 115 mm
- Measuring tape 5 m
- Cabinet levels 250
- VDE electrical insulating tape 19 mm x 20 m, black (8x)

ABS



Art. no.		empty	kg	PU
220273	51-pieces	220023	14,700	1

Hard-top tool cases

Tool case trolley „Start up“

hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, 19 tools, case art. 220023.

Contents:

- 2C-VDE electricians' screwdrivers 2,5 x 75, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C-VDE combination pliers, 185 mm
- 2C-VDE side cutters, 165 mm
- 2C-VDE telephone pliers, 200 mm
- 2C-VDE wire stripping pliers, 160 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1 blade
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Paint scraper, 40 mm
- Voltage tester, blade 50 mm
- Measuring tape, 3 m
- Water brushes



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ABS



Art. no.		empty	kg	PU
220252	19-pieces	220023	10,940	1

Tool case trolley „Master“

hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, 38 tools, case art. 220023.

Contents:

- 2C-VDE-screwdrivers set PH
- VDE-Cable knife straight blade
- Industrial cleaning wipes
- Measuring tape 3 m
- PUK pocket saw, fixed handle
- VDE cable cutter 230 mm
- 2C-VDE combination pliers 185 mm
- VDE side cutters 165 mm
- VDE telephone pliers 45°, 200 mm
- Automatic wire stripper 0,2 - 6 mm²
- Ear protection plugs SNR 30 db
- 2C-VDE screwdrivers PZ/FL, size 1
- 2C-VDE screwdrivers PZ/FL, size 2
- Perlon fish tapes 15 mm, 3
- LED Pocket lamp 18 x 91mm 80 lm
- Universal stripper 0,2 - 4 mm²
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Crimping pliers for crimp terminals/end sleeves
- Cable cutter 160 mm, coating-insulated
- Crimping pliers 0,75 - 16 mm²
- Ratched screwdriver „Flex“, 58 pcs.
- Safety glasses
- Spanner for switch-cabinets
- Voltage tester „Profi Plus“
- Elektronik ESD Electronic side cutter 115 mm
- Adjustable single-head wrench 24 mm
- 2C Allround soft-grip scissors 140 mm
- Cable glands IP 68, M20, light-grey
- Dispenser box with insulated end sleeves (DIN)
- Cable ties UV-resistant 250 x 4,8 mm
- Nailing clips for round cable 7-10, white



▲ 1000 V IEC 60900:2004

ABS



Art. no.		empty	kg	PU
220254	38-pieces	220023	14,700	1

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Hard-top tool cases

Tool case trolley „EXTRA“

hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, 19 tools, case 220023.

Contents:

- 2C-VDE screwdriver set PZ, 101999/PZ
- 2C-VDE cross slotted screwdrivers PH, size 1
- 2C-VDE cross slotted screwdrivers PH, size 2
- Automatic wire stripper Super Plus 0,2-6 mm²
- Cable stripping knives without hook blade 8-28 mm²
- Voltagetester „Basic“ black • Combination pliers VDE 185 mm
- Heavy duty diagonal cutters VDE 205 mm
- Long chain nose pliers VDE angled 200 mm
- Carpenters' pencils • Engineers' hammers 300 g
- Electricians' chisels 10x250 mm • Hand saws „PUK“ mit fixed handle
- Torped-level 225 mm
- Folding rules 2 m
- Paint scrapers 40 mm
- Water brushes
- Plaster cups
- Cable knives 1000 V, 50 mm
- Sledge hammers 1000 g
- Stone chisels, flat oval shank 28x250 mm
- Industrial cleaning wipes
- Crimping pliers crimping pliers for insulated terminals and end sleeves 0,5 - 6 mm
- Stripper 8-13 mm²
- Cable cutters VDE 170 mm
- Electrical insulating tape VDE 15 mm x 10 m, Rainbow pack, 263820, 10 colors
- Voltage tester „Profi plus“
- HAUPA „Multi Check“ digital high-capacity multimeter



1000 V IEC 60900:2004

ABS



Art. no.	empty	kg	PU
220307	220023	8,680	1

Tool case “2 component”

Hard-top case, for apprentices, black, 2 tool kits, one with document pocket, cover-plate with pocket compartments and clip-compartment, 18 tools. Case 220038.

Contents:

- 2C telephone pliers, straight, 200 mm
- 2C combination pliers, 180 mm
- 2C heavy duty side cutters, 180 mm
- 2C wire stripping pliers, 160 mm
- 2C electrician's screwdrivers 2.5 x 75, 3 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C cross slotted screwdrivers, PH, size 1 and 2
- Cable knife, 1-pieces
- Wire stripper, hooked blade, 8 - 28 mm Ø
- PUK pocket saw, fixed handle
- Paint scraper, 40 mm
- Electricians' chisel, 10 x 250 mm
- Voltage tester, 220 - 250 volt
- Engineers' hammer, 300 g
- Measuring stick, 2 m

ABS+



Art. no.	empty	kg	PU
220170	220038	7,000	1

Hard-top tool cases

Network service case

Hard-top case, black, for electricians and network technicians, 2 tool kits (one with document pocket), bottom half of case contains 8 small removable boxes, secured for transport purposes. Case 220073.

Contents:

- 2C side cutters, 160 mm
- 2C telephone pliers, 180 mm
- 2C telephone pliers, 200 mm, bent
- 2C electrician screwdrivers 75, 100, 150 mm
- 2C cross slotted screwdrivers PH, size 0, 1, 2
- Electronic screwdriver set, 7-pieces
- Control cabinet key
- Precision stripper "PWS-Plus" 0.25 - 0.8 Ø
- Combination snips 190 mm
- „PUK“ pocket saw, fixed handle
- Crimping pliers for coaxial connectors
- ESD electronic side cutters, 130 mm
- Stripper for coaxial cable
- VDE/GS voltage tester
- Stripper for UTP/STP data cable
- Crimping pliers for modular plugs
- Sensor tool

ABS+



Art. no.		empty	kg	PU
220141	21-pieces	220038	8,800	1

Network service case „Connect“

The perfect Starter package for data and network. Hard-top case, black, 2 tool kits, bottom half of case contains removable boxes, 13 tools. Case 220073.

Contents:

- 2C electrician screwdrivers 2.5 x 75, 3 x 100, 4 x 125 mm
- 2C cross slotted screwdrivers PH, size 1 and 2
- Electronic screwdriverset, 7-pieces
- Stripper for UTP/STP data cable
- 2C side cutters 160 mm
- 2C telephone pliers, bent, 200 mm
- ESD electronic side cutters, 115 mm
- Crimping pliers for modular plugs
- 2C soft-grip scissors, 140 mm
- Sensor tool

ABS+



Art. no.		empty	kg	PU
220150	13-pieces	220073	5,600	1

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Hard-top tool cases

Tool case „Panther“

inside: 1 separation for documents, 2 plate for tools, 1 cover-plate with pocket compartments and clip-compartment. Case 220038.

Contents:

- 2C electrician's screwdrivers, 75, 100, 125, 150 mm
- 2C engineers' screwdriver, 100 mm
- 2C cross slotted screwdrivers, PZ, size 1 and 2
- Control cabinet key
- Jointing chisel, 26 x 250 mm
- Electrician's chisel, 10 x 250 mm
- Cable stripping knife, plastic shank
- Universal saw, heavy 150 mm
- 2C combination pliers, 180 mm
- 2C heavy duty side cutters, 180 mm
- 2C telephone pliers, 200 mm
- 2C wire stripping pliers, 160 mm
- Cabinet level, 250 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Bench hammer, 300 g
- Voltage tester „Basic“
- VDE/GS voltage tester

ABS+



Art. no.		empty	kg	PU
220040	21-pieces	220038	7,460	1

Tool case „Compact“

Hard-top case, black, 2 tool kits (one with document pocket), bottom half of case equipped with variable partitions, case 220038.

Contents:

- 2C electrician's screwdrivers, 2,5 x 75, 4 x 100, 4 x 125, 5 x 150 mm
- 2C cross slotted screwdrivers, PH, size 1 and 2
- Electronic screwdriver set, 7-pieces
- 2C combination pliers, 180 mm
- 2C side cutters, 160 mm
- 2C telephone pliers, 200 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable stripping knife, 4 - 16 mm Ø
- Automatic wire stripper, 0,2 - 6 mm²
- Cable cutter with a snap
- 2K Soft-Grip scissor, 140 mm
- PUK pocket saw, fixed handle
- HAUPA „Bit box“, 17-pieces
- SDS-plus set, 5-pieces
- Spirit level, 400 mm
- Measuring tape, 3 m
- Voltage tester „Basic“

ABS+



Art. no.		empty	kg	PU
220229	47-pieces	220038	7,180	1

Hard-top tool cases

Tool case „Basic“

Hard-top case, black, 2 tool kits (one with document pocket), bottom half of case equipped with variable partitions, 19 tools. Case 220038.

Contents:

- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2-VDE cross slotted screwdrivers PH, size 1 and 2
- 2C combination pliers, 180 mm
- 2C side cutters, 160 mm
- 2C telephone pliers, straight, 200 mm
- 2C wire stripping pliers, 160 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1-pieces
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Voltage tester blade, 50 mm
- Measuring stick, 2 m
- Paint scraper, 40 mm
- Water brushes

ABS+



Art. no.	empty	kg	PU	
220153	19-pieces	220038	6,600	1

Tool case „Basic VDE“

hard-side case, black, 2 tool sections (one with document pocket), bottom half of case equipped with variable partitions, with high-grade fittings, 19 tools. Case 220038.

Contents:

- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C-VDE combinations pliers, 185 mm
- 2C-VDE side cutters 165, mm
- 2C-VDE telephone pliers, straight, 200 mm
- 2C-VDE cable cutter 200 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1 blade
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Voltage tester blade, 50 mm
- Measuring stick, 2 m
- Paint scraper, 40 mm
- Water brushes



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Art. no.	empty	kg	PU	
220244	19-pieces	220038	7,140	1

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Hard-top tool cases

Tool case „Inspektor“

rigid case, black, with high-grade fittings, Master's case with 25 tools.
Case 220068.

Contents:

- 2C electrician's screwdrivers 75, 125, 150 mm
- 2C engineers' screwdrivers 100, 150 mm
- 2C cross slotted screwdrivers PH, size 1 + 2
- 2C combination pliers, 180 mm
- 2C heavy duty side cutters, 180 mm
- 2C telephone pliers, 200 mm
- 2C telephone pliers, bent 200 mm
- 2C water pump pliers, 240 mm
- 2C wire stripping pliers, 160 mm
- 2C piercing awl
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Voltage tester, 150 - 250 V
- Adjustable wrench, 210 mm
- Paint scraper, 50 mm
- Electricians' Chisel, 10 x 250 mm
- Engineers' hammer, 300 g
- Cable knife, 1 blade
- Universal scissors, 190 mm
- PUK pocket saw, fixed handle
- Measuring stick, 2 m
- Alu level 400 mm

ABS+



Art. no.		empty	kg	PU
220176	25-pieces	220068	8,980	1

Tool case „Akkurat“

Master's case for radio and television, with 32 tools, rigid case. Case 220068.

Contents:

- 2C cross slotted screwdrivers, PH, size 1 and 2
- 2C electrician's screwdrivers 2.5 x 75, 4 x 100, 4 x 125, 5 x 150
- 2C electrician's screwdrivers 2.5 x 75 (bare)
- 2C combination pliers, 160 mm
- 2C side cutters, 160 mm
- 2C telephone pliers, straight, 200 mm
- 2C telephone pliers, bent, 200 mm
- 2C wire stripping pliers, 160 mm
- ESD electronic side cutters, 115 mm
- ESD electronic needle nose pliers, 130 mm
- ESD Electronic round nose pliers, 130 mm
- ESD electronic needle nose pliers, 130 mm, 45°
- Engineers' screwdrivers, 8 x 150 mm
- Elektronic screwdriver set, 7-pieces
- Tweezer, straight, 130 mm
- Tweezer, flat, 145 mm
- 2C socket wrenches 5, 5.5, 6
- 2C piercing awl, round
- Voltage tester 50 - 250 Volt
- Checking mirror 210 mm
- Claw holder, size 525
- Spanner, 175 mm
- Solder, Sn 60% 1 mm 100 g
- Universal scissors, 190 mm
- Crown scissors, 115 mm
- Contact file set. 6 pieces

ABS+



Art. no.		empty	kg	PU
220179	32-pieces	220068	8,180	1

Hard-top tool cases

Tool case „Diamant“

Master's case for domestic appliances, with 23 tools, rigid case, black. Case 220068.

Contents:

- 2C electrician's screwdrivers 4 x 100, 5 x 150 mm
- 2C engineers' screwdrivers 6 x 100, 8 x 150 mm
- 2C cross slotted screwdrivers, PH, size 1 and 2
- 2C long nose round pliers, 160 mm
- 2C long nose flat pliers, 160 mm
- 2C telephone pliers 200 mm
- 2C telephone pliers, bent, 200 mm
- 2C combination pliers 160 mm
- 2C side cutters, 160 mm
- 2C heavy duty side cutters, 200 mm
- Cable stripper 0.5 - 4 Ø
- ESD electronic side cutters, 115 mm
- Crimping pliers for crimping terminals
- Socket wrench set, 1/4", 33 pieces
- „PUK“ pocket saw, fixed handle
- Bench hammer, 300 g
- Cable stripping knife, plastic scales
- VDE/GS Voltage tester
- Combination snips, 190 mm
- Cable cutter, max. 16.9 Ø

ABS+



Art. no.		empty	kg	PU
220192	23-pieces	220068	8,500	1

The ideal tool assortment

rigid case for electromaster, with 32 tools. Case 220068.

Contents:

- 2C electrician screwdrivers 75, 75, 125, 150 mm
- 2C engineers' screwdrivers 100, 150 mm
- 2C cross slotted screwdrivers PH, size 1 + 2
- 2C combination pliers, 180 mm
- 2C telephone pliers, 200 mm
- 2C side cutters, 160 mm
- 2C telephone pliers, 200 mm
- 2C water pump pliers, 240 mm
- ESD electronic side cutters, 115 mm
- ESD electronic needle nose pliers, 130 mm
- Electronic screwdriver set, 7-pieces
- Solder for electronic work, Sn 60%, 1.5 mm, 100 g
- Claw retriever with fixed shaft, size 165
- 2C piercing awl, square
- 2C socket wrenches 7, 8, 10
- Checking mirror, 210 mm
- Socket wrench set, 1/4", 33 pieces
- Contact soldering iron, 30 watt
- Cable stripping knife, plastic handle
- Bench hammer, 300 g
- Universal saw, heavy 150 mm
- Cable stripper, 0.5 - 4 mm Ø
- Combination snips, 190 mm
- VDE/GS Voltage tester
- Tweezer angled

ABS+



Art. no.		empty	kg	PU
220177	32-pieces	220068	10,260	1

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Hard-top tool cases

Tool case „OmegaMax Start VDE“

rigid case, black, 28 compartments, 1 combination lock, 1 separation for documents, 2 plate for tools, 2 lockable locks, ground bowl with variables to dividing bars, framed push border. Tool case 220042.

Contents:

- 2C-VDE electrician's screwdrivers
2.5 x 75, 4 x 100, 5.5 x 125 und 6.5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C combination pliers, 185 mm
- 2C side cutters, 165 mm
- 2C telephone pliers, 200 mm
- 2C wire stripping pliers, 160 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1 blade
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Paint scraper, 40 mm
- Voltage tester, blade 50 mm
- Measuring tape, 3 m
- Water brush

ABS+



Art. no.		empty	kg	PU
220043	19-pieces	220042	11,000	1

Tool case trolley „OmegaMax Trolley Start VDE“

rigid case, black, 28 compartments, 1 combination lock, 1 separation for documents, 2 plate for tools, 2 lockable locks, ground bowl with variables to dividing bars, framed push border. Tool case 220048.

Contents:

- 2C-VDE electrician's screwdrivers
2.5 x 75, 4 x 100, 5.5 x 125 und 6.5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C combination pliers, 185 mm
- 2C side cutters, 165 mm
- 2C telephone pliers, 200 mm
- 2C wire stripping pliers, 160 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1 blade
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Paint scraper, 40 mm
- Voltage tester, blade 50 mm
- Measuring tape, 3 m
- Water brush

ABS+



Art. no.		empty	kg	PU
220137	19-pieces	220048	11,500	1

Hard-top tool cases

Tool case „Merkur Plus“

rigid case, black, Master's case with 25 tools. Case 220034.

Contents:

- 2C electrician's screwdrivers 75, 125, 150 mm
- 2C engineers' screwdrivers 100, 150 mm
- 2C cross slotted screwdrivers, PH, size 1 and 2
- Universal scissor, 190 mm
- Cable knife, 1-piece
- Wire stripper, hooked blade, 8 - 28 mm Ø
- 2C combination pliers, 180 mm
- 2C heavy duty side cutters, 180 mm
- 2C telephone pliers, 200 mm
- 2C telephone pliers, bent, 200 mm
- 2C water pump pliers, 240 mm
- 2C wire stripping pliers, 160 mm
- PUK pocket saw, fixed handle
- Electricians' chisel 10 x 250 mm
- Measuring stick, 2 m
- Alu level, 400 mm
- 2C piercing awl
- Voltage tester 150 - 250 V
- Adjustable wrench, 210 mm
- Engineers' hammer, 300 g
- Paint scraper, 50 mm

ABSfly ↩



Art. no.	empty	kg	PU
220035	25-pieces	220034	9,980 1

Assortment boxes

Assortment box (Polypropylene)

Features: Ideal for small parts – the lighter and reliable alternative to sheet steel bulk storage chests. Equipped with removable boxes thus allowing individual division. U-profiles in the cover and grids in the bottom of the box prevent unwanted slipping and allow stacking of several bulk storage chests.

Dimensions: W = 420 x D = 350 x H = 60 mm, colour: black/green.

Material: Bulk storage chest from polypropylene with transparent cover, rounded edges, ergonomic carrying handle and rigid snap closures.



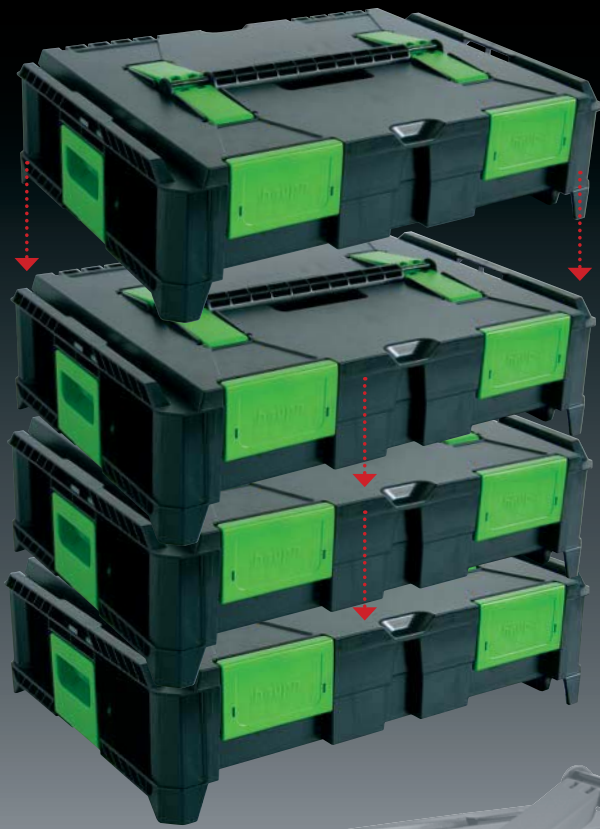
Art. no.	width	depth	height	kg	PU
220131	420	335	65	1,200	1

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HAUPA SysCon product profile:

The basic idea behind the System Container is that the individual containers can be connected to each other to enable easy transport thus ensuring that simple access is provided to the contents of all containers.

The containers may be offered in an empty state or with contents. If sold with contents, the contents should encompass assortments which include connection materials, fixture materials and tools.

In addition, the System Container should also act as a transportation method of HAUPA Smart Hydraulics since the stacking concept enables the hydraulic pressing tools to be organised along with the appropriate cable lugs thus forming a system unit.

The four conical feet on the uppermost container are automatically guided into the correct position on the container below. The connection of the containers is made without expenditure of force, simply by placing them on top of one another. The snap closures on the side mean that the containers can be separated just as easily. The closures are pulled gently outwards which enables lifting.

When stacking, the container handles may be extended or folded in.

The design of the container ensures that water cannot enter the container.

Quality profile:

In order to ensure maximum stability, the containers are made from ABS. ABS is capable of withstanding both high and low temperatures without distorting or breaking.

The hard tests under a variety of conditions:

Fall tests with both empty and filled containers, stress tests, bounce tests and tensile tests have proved the robustness of the container and of components such as handles, closing flaps, snap closures etc.

Target group:

Due to the high quality and the extreme robustness afforded by this product, the target users are professionals: Trade - Industry - Laboratories, etc.

ABS plastic box „SysCon S“

1 220370 ABS plastic box „SysCon S“

outer dimensions: 464 x 353 x 142 mm
inner dimensions: 400 x 300 x 80 mm

without inlay

SysCon



Art. no.	kg	PU
220370	2,200	1

ABS plastic box „SysCon S mobil“

1 220371 ABS plastic box „SysCon S mobil“

outer dimensions: 464 x 353 x 142 mm
inner dimensions: 400 x 300 x 80 mm
2 swivel castors
2 swivel castors with locking function

without inlay

SysCon



Art. no.	kg	PU
220371	4,300	1

ABS plastic box „SysCon M“

1 220372 ABS plastic box „SysCon M“

outer dimensions: 464 x 353 x 212 mm
inner dimensions: 400 x 300 x 150 mm

without inlay

SysCon



Art. no.	kg	PU
220372	2,600	1

ABS plastic box „SysCon M mobil“

1 220380 ABS plastic box „SysCon M mobil“

outer dimensions: 464 x 353 x 212 mm
inner dimensions: 400 x 300 x 150 mm
2 swivel castors
2 swivel castors with locking function

without inlay

SysCon



Art. no.	kg	PU
220380	4,700	1

SysCon



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System-Containers

SysCon for assortment inserts empty

Contents:

- 1 220370 ABS plastic box „SysCon S“
- 2 220376 Foam insert „SysCon“ 400 x 300 x 15 mm
- 27 220131/M small boxes M

SysCon



Art. no.		kg	PU
220620	empty	2,800	1

Tools insert SysCon

Polypropylen, 5 compartments

SysCon



Art. no.		kg	PU
220374	5 compartments	0,200	1

Tools insert SysCon

Polypropylen, 10 compartments

SysCon



Art. no.		kg	PU
220375	10 compartments	0,200	1

SysCon tool box empty

Contents:

- 1 220372 ABS plastic box „SysCon M“
- 1 220399 Foam insert „SysCon“ 300 x 395 x 10 mm
- 1 220374 Tools insert „SysCon“
- 1 220379 Tool plate „SysCon“ 11 compartments

SysCon



Art. no.		kg	PU
220622	empty	2,400	1

Tool plate SysCon

11 compartments

SysCon



Art. no.		kg	PU
220379	11 compartments	0,200	1

System-Containers

Foam insert SysCon

soft foam, 400 x 300 x 15 mm

SysCon



Art. no.	width	depth	height	kg	PU
220376	400	300	15	0,030	1

Foam insert SysCon

soft foam, 400 x 300 x 10 mm

SysCon



Art. no.	width	depth	height	kg	PU
220399	400	300	10	0,020	1

Foam insert SysCon

rigid foam, 400 x 300 x 20 mm

SysCon



Art. no.	width	depth	height	kg	PU
220377	400	300	20	0,055	1

Foam insert SysCon

rigid foam, 400 x 300 x 65 mm

SysCon

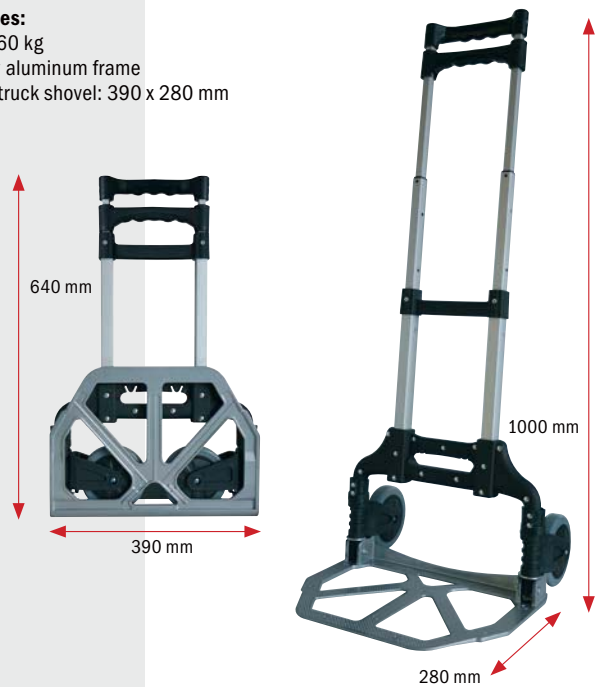


Art. no.	width	depth	height	kg	PU
220378	400	300	65	0,200	1

SysCon hand truck

Properties:

- up to 60 kg
- sturdy aluminum frame
- Hand truck shovel: 390 x 280 mm



Art. no.	max.kg	kg	PU
220602	60	2,500	1

SysCon starter set

Car securing trolley made from anodised aluminium for HAUPA SysCon system containers. The ideal companion for use out and about. Easy installation in all car models.

- 220370 ABS plastic box "SysCon S"
- 220372 ABS plastic box "SysCon M"
- 220644 SysCon load securing "SysCon Car"
- 220375 Assortment inset "SysCon"
- 220374 Tool inset "SysCon"



Properties:

- 21 slots (rear side)
- 3 round holes each side, left and right
- 5 round holes in floor plate

Volume for contents:

- maximum 5 ABS boxes "SysCon M"
- maximum 8 ABS boxes "SysCon S"

Art. no.	width	depth	height	PU
220646	475	360	1080	1

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SysCon tool case set

Contents: 17 tools

220372	ABS plastic box „SysCon M“
220374	Tools insert „SysCon“
220399	Foam „SysCon“ 400 x 300 x 10 mm
220379	Tool plate „SysCon“ 11 compartments
210696	Spanner for switch-cabinets
210695	Automatic wire stripper 0,2 – 6 mm ²
263842	VDE electrical tape 19 mm x 20 mm, black
263844	VDE electrical tape 19 mm x 20 mm, white
263860	VDE electrical tape 19 mm x 20 mm, green/yellow
200031	Cable stripping knife 8 – 28 mm ²
211200	2C-VDE combination plier DIN 5244, 185 mm
211204	2C-VDE side cutter DIN 5238 B, 165 mm
211208	2C-VDE telephone plier DIN 5236 A, 200 mm, straight
101870	2C-VDE screwdriver PZ/FL 1
101872	2C-VDE screwdriver PZ/FL 2
181910	2C-VDE screwdriver 2,5 x 75 mm
101914	2C-VDE screwdriver 3,5 x 100 mm
101916	2C-VDE screwdriver 4,0 x 100 mm
101920	2C-VDE screwdriver 6,5 x 150 mm
101942	2C-VDE screwdriver PH1
101944	2C-VDE screwdriver PH2

SysCon



Art. no.		empty	kg	PU
220392	17-pieces	220372	4,300	1

SysCon tool case set „Start VDE“

Contents: 22 tools

220372	ABS plastic box „SysCon M“
220374	Tools insert „SysCon“
220399	Foam „SysCon“ 400 x 300 x 10 mm
220379	Tool plate „SysCon“ 11 compartments
240042	Aluminium spirit levels 400 mm
180184	Engineers' hammer 300 g
210695	Wire stripper Super Plus 0,2 – 6 mm ²
200043	Universal stripper 0,2 – 4 mm ²
211200	2C-VDE combination pliers DIN 5244, 185 mm
211217	2C-VDE heavy duty side cutters DIN 5238 A, 170 mm
211208	2C-VDE telephone pliers DIN 5236 A, 200 mm, straight
101999	2C-VDE screwdrivers set
101870	2C-VDE screwdriver with PZ slot profile PZ/FL 1
101872	2C-VDE screwdriver with PZ slot profile PZ/FL 2
180092	Electricians' chisels 10 x 250 mm
100647	Voltage tester VDE/GS
150090	Carpenters' pencil
150024	Paint scrapers 40 mm
150004	Water brushes
240002	Folding rules 2 m
150006	Plaster cup

SysCon



Art. no.		empty	kg	PU
220608	22-pieces	220372	6,500	1

Drilling tools



Twist drills, ground

Twist drills DIN 338/HSS type N

point angle 118°, spiral angle 25 - 35°, Ø-tolerance h 8, of HSS, for drilling of steel, steel-casting alloyed and unalloyed up to approx. 900 N/mm² strength grey- and tempered casting, sinter iron, newsilver, graphit, alu-alloy, bronze and brass

Packaging unit in blister pack:

0,5 - 3,0 mm; 1 SPU = 3 pieces
3,2 - 6,0 mm; 1 SPU = 2 pieces
6,5 - 13,0 mm; 1 SPU = 1 piece

xxxxxx/CO = Cobalt



Art. no.	Ø	core-hole	SL	TL	PU
230010	0,5		6	22	1
230020	1		12	34	1
230020/CO					1
230030	1,5		18	40	1
230030/CO					1
230032	1,6	M2	20	43	1
230032/CO					1
230040	2		24	49	1
230040/CO					1
230050	2,5	M3	30	57	1
230050/CO					1
230060	3		33	61	1
230060/CO					1
230064	3,2		36	65	1
230064/CO					1
230066	3,3	M4	36	65	1
230066/CO					1
230070	3,5		39	70	1
230070/CO					1
230080	4		43	75	1
230080/CO					1
230084	4,2	M5	43	75	1
230084/CO					1
230090	4,5		47	80	1
230090/CO					1
230100	5	M6	52	86	1
230100/CO					1
230110	5,5		57	93	1
230110/CO					1
230120	6	M7	57	93	1
230120/CO					1
230130	6,5		63	101	1
230130/CO					1
230136	6,8	M8	69	101	1
230136/CO					1
230140	7		69	109	1
230140/CO					1
230160	8		75	117	1
230160/CO					1
230170	8,5	M10	75	117	1
230170/CO					1
230180	9		81	125	1
230180/CO					1
230190	9,5		81	125	1
230190/CO					1
230200	10		87	133	1
230200/CO					1
230204	10,2	M12	87	133	1
230204/CO					1
230210	10,5		87	133	1
230210/CO					1

Art. no.	Ø	core-hole	SL	TL	PU
230220	11		87	133	1
230220/CO					1
230230	11,5		94	142	1
230230/CO					1
230240	12	M14	101	151	1
230240/CO					1
230244	12,5		101	151	1
230244/CO					1
230250	13		101	151	1
230250/CO					1

Twist drills DIN 338/HSS type N

made from high power steel, in plastic pocket

Technical information:

Standard version: Industrial quality, dressed to size from solid material, high true tuning precision, long tool life, cutter separate packet in plastic bags or as a set in a box.

/PB: as beside

/R: workshop quality, wheeled milled

/TIN: as beside, titanium nitride coating



Art. no.	Ø		kg	PU
230312	1 - 10	19-pieces	0,312	1
230312/R	1 - 10		0,284	1
230312/TIN	1 - 10		0,345	1
230314	1 - 13	25-pieces	1,270	1
230314/R	1 - 13		1,213	1
230314/TIN	1 - 13		1,290	1

Bulk storage chest for twist drills

HSS, DIN 338, 170 pieces, TYP N, short, ground, bright, with split point, TIN coated.

Contents: 1.0 - 10.0 mm (upstairs in 0.5 mm steps) up to 8,0 mm 10 pieces/size
> 8,5 mm 5 pieces/size



Art. no.		kg	PU
230301/TIN	170-pieces	4,550	1

Drills

Auger bit, type Lewis



Art. no.	TL	Ø	kg	PU
231502	460	6	0,005	1
231508	235	10	0,098	1
231516	235	14	0,005	1
231524	235	18	0,200	1
231526	460	18	0,468	1
231528	235	20	0,005	1
231530	460	20	0,005	1
231532	235	22	0,300	1
231534	460	22	0,642	1
231540	235	26	0,005	1
231544	235	28	0,005	1
231546	460	28	0,005	1

Drill type machine bits for wood

made from carbon steel, concentrically ground, with centre point and front cutter



Art. no.	TL	Ø	kg	PU
230616	70	3	0,005	1
230618	80	4	0,008	1
230620	90	5	0,011	1
230622	100	6	0,015	1
230626	120	8	0,031	1
230628	130	9	0,039	1
230630	137	10	0,047	1
230634	150	12	0,075	1
230636	170	13	0,088	1

Flat bits

with flat cutter head, square shank, DIN 6447 A



Art. no.	TL	Ø	shank	kg	PU
230732	150	10	6	0,041	1
230734	150	12	6	0,041	1
230736	150	14	6	0,048	1
230738	150	16	6	0,051	1
230740	150	18	6	0,047	1
230742	150	20	6	0,045	1
230746	150	24	6	0,045	1

Casing drill

with cylindrical clamping shaft, cutting element made of chrome vanadium steel



Art. no.	TL	Ø	kg	PU
231750	400	6	0,100	1
231752	400	8	0,005	1
231754	400	10	0,160	1
231756	400	12	0,200	1
231758	400	13	0,200	1
231760	400	17	0,005	1
231766	400	22	0,200	1

Drills

Masonry drills DIN 8039

carbide tipped, with straight shank, each piece in plastic pocket



Art. no.	TL	Ø	CL	kg	PU
230330	70	3	40	0,003	1
230331	75	3,5	45	0,056	1
230332	80	4	45	0,008	1
230334	85	4,5	50	0,008	1
230336	90	5	50	0,011	1
230338	95	5,5	55	0,012	1
230340	100	6	60	0,018	1
230342	105	6,5	65	0,018	1
230344	110	7	65	0,018	1
230346	120	8	70	0,027	1
230352	140	10	90	0,035	1
230354	150	11	95	0,082	1
230356	160	12	105	0,090	1
230358	170	13	110	0,100	1
230360	180	14	115	0,120	1
230362	190	15	125	0,165	1
230364	190	16	125	0,092	1

Masonry drills DIN 8039

carbide tipped, with straight shank, each piece in plastic pocket



Art. no.	TL	Ø	CL	kg	PU
230370	400	8	300	0,130	1
230372	400	10	300	0,124	1
230374	400	12	300	0,143	1
230376	400	14	300	0,316	1
230378	400	16	300	0,232	1
230380	400	18	300	0,460	1
230382	400	20	300	0,608	1
230400	600	8	500	0,222	1
230402	600	10	500	0,222	1
230404	600	12	500	0,330	1
230406	600	14	500	0,463	1
230408	600	16	500	0,568	1
230410	600	18	500	0,715	1
230412	600	20	500	0,896	1
230414	600	22	500	1,164	1

Masonry drill bit

High-Helix Masonry drill bit, sand blasted, countersink construction, professional quality



Art. no.	TL	Ø	kg	PU
231700	70	3	0,007	1
231702	85	4	0,011	1
231704	95	5	0,017	1
231706	100	6	0,018	1
231708	100	7	0,020	1
231710	120	8	0,027	1
231712	120	9	0,030	1
231714	120	10	0,035	1
231716	150	11	0,090	1
231718	150	12	0,100	1

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Drills

SDS hammer drill bits

Top quality: SDS-Plus fast fitting system: 2 lengthwise slots and 2 round slots at the end of the shank. Universal tool fitting for different types of hammer drills according to the SDS-Plus system



Art. no.	TL	Ø	CL	kg	PU
230430	110	5	50	0,037	1
230431	160	5	100	0,042	1
230432	110	5,5	50	0,037	1
230433	160	5,5	100	0,045	1
230434	110	6	50	0,039	1
230436	160	6	100	0,045	1
230438	110	6,5	50	0,038	1
230438/A	160	7	100	0,050	1
230438/B	160	6,5	100	0,047	1
230440	110	7	50	0,041	1
230442	110	8	50	0,046	1
230442/A	160	8	100	0,056	1
230444	210	8	150	0,064	1
230444/A	460	8	400	0,150	1
230448	160	10	100	0,065	1
230450	210	10	150	0,087	1
230450/A	260	10	150	0,118	1
230451	460	10	400	0,192	1
230453	210	12	150	0,107	1
230454	160	12	100	0,097	1
230456	260	12	200	0,159	1
230457	460	12	400	0,263	1
230458	160	13	85	0,111	1
230459	600	12	540	0,286	1
230460	160	14	100	0,087	1
230460/A	260	14	200	0,171	1
230461	460	14	400	0,257	1
230464	210	16	150	0,197	1
230466	460	16	400	0,418	1
230467	600	14	540	0,339	1
230473	600	16	540	0,561	1
230474	210	20	150	0,246	1
230475	460	18	400	0,475	1
230478/1	600	10	540	0,270	1
230395	460	20	400	0,585	1
230396	600	20	540	0,737	1
230397	460	22	400	0,669	1
230398	460	25	400	0,998	1

SDS-Nut-hammer drill sets

Contents: 5, 6, 8 x 110 / 6, 8, 10, 12 x 160



Art. no.	kg	PU
230479	0,679	1

7-pieces

SDS hammer drill bits

Workshop quality: SDS-Plus fast fitting system: 2 lengthwise slots and 2 round slots at the end of the shank. Universal tool fitting for different types of hammer drills according to the SDS-Plus system



Art. no.	TL	Ø	CL	kg	PU
230900	110	5	50	0,036	1
230902	160	5	100	0,042	1
230904	110	5,5	50	0,036	1
230906/1	160	5,5	100	0,043	1
230908	110	6	50	0,040	1
230910	160	6	100	0,045	1
230912	110	6,5	50	0,041	1
230914	160	6,5	100	0,045	1
230916	110	7	50	0,040	1
230918	160	7	100	0,045	1
230920	110	8	50	0,045	1
230922	160	8	100	0,055	1
230924	210	8	150	0,067	1
230926	160	10	100	0,068	1
230928	210	10	150	0,095	1
230930/1	260	10	150	0,107	1
230932	450	10	400	0,155	1
230934	600	10	540	0,365	1
230936	260	11	210	0,070	1
230938	160	12	100	0,077	1
230940	210	12	150	0,106	1
230942	310	12	260	0,120	1
230944	460	12	400	0,250	1
230946	600	12	540	0,315	1
230948	160	13	100	0,085	1
230950	160	14	100	0,200	1
230952	260	14	210	0,250	1
230954/1	460	14	400	0,300	1
230956	600	14	540	0,365	1
230958	160	15	100	0,120	1
230960	210	16	150	0,195	1
230962/1	460	16	400	0,346	1
230964	600	16	540	0,418	1
230966	200	18	140	0,180	1
230968	460	18	400	0,395	1
230970	210	20	150	0,221	1
230972	310	20	250	0,383	1
230974	460	20	400	0,503	1
230976	460	22	400	0,583	1
230978	460	25	400	0,753	1

SDS-hammer drill sets

Contents: 5, 6 x 110, 6, 8, 10 x 160



Art. no.	kg	PU
230979	0,261	1

5-pieces

Step drills

Combination step drills/HSS

for metric PG rough thread-through-hole and core-hole-drillings, 6 drilling diameters for core-hole with 5 mm step for sheet metal up to max. 6 mm.
Through-hole: 8,5 - 12,5 - 16,5 - 20,5 - 25,5 - 32,5 - 40,5 mm
core-hole: 10,5 (M12) - 14,5 (M16) - 18,5 (M20) - 23,5 (M25) - 30,5 (M32) - 38,5 (M40)



Art. no.	min./Ø	max./Ø	kg	PU
231319	8,5	40,5	0,269	1

Step drills /HSS

Special type for electric assembly, for sheet metal up to max. 4 mm gauge, for metric thread through-hole drilling, 8,5 - 12,5 - 16,5 - 20,5 - 25,5 - 32,5 - 40,5 mm



Art. no.	min./Ø	max./Ø	kg	PU
231324	8,5	40,5	0,199	1

Step drills /HSS

thickness up to max. 6 mm, for metric core-hole-drilling, 8,5 - 10,5 - 14,5 - 18,5 - 23,5 - 30,5 mm



Art. no.	min./Ø	max./Ø	kg	PU
231326	8,5	30,5	0,208	1



Step drills /HSS

special type for electric assembly, for sheet steel up to 4 mm thickness, for amoured conduit thread sizes



Art. no.	min./Ø	max./Ø	kg	PU
231320	7	29	0,237	1
231322	7	21	0,151	1

Step drills /HSS

for mechanical engineering and tinsmith working, with 2 cutters, metric



Art. no.	shank	min./Ø	max./Ø	kg	PU
231336	6	4	12	0,027	1
231338	9	12	20	0,079	1
231340	12	20	30	0,203	1
231342	12	30	40	0,371	1
231350	6	4	12	0,027	1
231352	8	4	20	0,059	1
231354	10	6	30	0,162	1

Step drills assortment/HSS

3 pieces, for mechanical engineering and tinsmith working, with 2 cutters.

Contents:

Ø 4 - 12 mm, Ø 12 - 20 mm, Ø 20 - 30 mm



Art. no.	Ø	kg	PU
231327	4 - 30	0,597	1

Rotary guide value for step drills/cone drills

Material	unleg. Baustahl < 700 N/mm ² Mild steel < 700 N/mm ²	unleg. Baustahl > 700 N/mm ² Mild steel > 700 N/mm ²	leg. Stahl < 1000 N/mm ² Alloy steel < 1000 N/mm ²	Gußeisen < 250 N/mm ² Cast iron < 250 N/mm ²	Gußeisen > 250 N/mm ² Cast iron > 250 N/mm ²	Edelstahl rostfrei Stainless steel	CuZn Leg. spröde CuZn alloy brittle	CuZn Leg. zäh CuZn alloy tough	AL Leg. < 11% Si Alloy steel < 11% Si	Thermo- plaste Thermo plastic	Duro- plaste Duro plastic	Holz Wood
Materialstärke	6,0 mm	6,0 mm	6,0 mm	6,0 mm	6,0 mm	3,0 mm	6,0 mm	6,0 mm	6,0 mm	6,0 mm	6,0 mm	25,0 mm
Material gauge	6,0 mm	6,0 mm	6,0 mm	6,0 mm	6,0 mm	3,0 mm	6,0 mm	6,0 mm	6,0 mm	6,0 mm	6,0 mm	25,0 mm
Kühlung	Bohrpaste	Bohrpaste	Bohrpaste	Luft	Luft	Bohrpaste	Luft	Luft	Bohrpaste	H ₂ O	Luft	Luft
Lubricant	Drilling paste	Drilling paste	Drilling paste	Air	Air	Drilling paste	Air	Air	Drilling paste	H ₂ O	Air	Air
Vc = m / min	25	20 - 25	20	15	10	5	60	35	30	20	15	> 40
U/min	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m
Ø mm	1900 - 600	1700 - 580	1550 - 520	1190 - 400	800 - 250	400 - 130	4700 - 1550	2750 - 920	2350 - 790	1550 - 520	1190 - 400	3000 - 1000
4,0 - 12,0	1900 - 400	1700 - 350	1550 - 300	1190 - 240	800 - 160	400 - 80	4700 - 950	2750 - 550	2350 - 470	1550 - 300	1190 - 240	3000 - 650
4,0 - 20,0	600 - 400	600 - 350	520 - 300	400 - 240	250 - 160	130 - 80	1550 - 950	920 - 550	790 - 470	520 - 300	400 - 240	1000 - 650
4,0 - 24,0	1900 - 300	1700 - 280	1550 - 250	1190 - 200	800 - 130	400 - 65	4700 - 790	2750 - 460	2350 - 400	1550 - 250	1190 - 200	3000 - 550
6,0 - 30,0	1300 - 250	1200 - 230	1000 - 200	780 - 150	530 - 100	250 - 50	3150 - 630	1850 - 370	1590 - 310	1000 - 200	780 - 150	2100 - 420
20,0 - 30,0	400 - 250	350 - 230	300 - 200	230 - 150	160 - 100	80 - 50	950 - 630	550 - 370	470 - 310	300 - 200	230 - 150	650 - 420
6,0 - 36,0	1300 - 220	1200 - 200	1000 - 170	780 - 130	530 - 90	250 - 45	3150 - 530	1850 - 300	1590 - 260	1000 - 170	780 - 130	2100 - 350
30,0 - 40,0	250 - 200	230 - 180	200 - 150	150 - 120	100 - 80	50 - 40	630 - 470	370 - 280	310 - 240	200 - 150	150 - 120	420 - 310
40,0 - 50,0	200 - 160	180 - 140	150 - 125	120 - 90	80 - 65	40 - 30	470 - 380	280 - 220	240 - 190	150 - 125	120 - 90	310 - 250
50,0 - 60,0	160 - 130	140 - 110	125 - 100	90 - 80	65 - 50	30 - 25	380 - 310	220 - 185	190 - 150	125 - 100	90 - 80	250 - 210

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Cone drills

Cone drills/Aerial drills/HSS

for edgefree drilling of thin material



Art. no.	shank	min./Ø	max./Ø	kg	PU
231300	6	3	14	0,027	1
231301	8	6	20	0,055	1
231330	8	6	22,5	0,085	1
231302	10	16	30	0,139	1
231304	12	26	40	0,265	1
231305	10	6	30	0,166	1
231306	12	36	50	0,350	1
231307	13	46	60	0,551	1

Set of cone drills/HSS

3 pieces, in metal box.

1 piece each No. 1, 2, 3 (Ø 3 - 30 mm), suitable for NE material, soft steel sheet, similar to ST 14 - 37, Nirosta steel sheet A 2, for duro or thermo plastic



Art. no.	Ø	kg	PU
231312	3 - 30	0,510	1

Screw punches

Screw punches

matching for cable connection acc. the new Euro-Norm EN 50262, with 3 cutting edges for iron sheet up to 2 mm, steel sheet up to 1,5 mm, stainless-steel sheet up to 1,5 mm thickness



Art. no.		screws	kg	PU
180513	metric	ISO 16	180530	0,101 1
180515	metric	ISO 20	180530	0,115 1
180517	metric	ISO 25	180530	0,154 1
180519	metric	ISO 32	180532	0,320 1
180521	metric	ISO 40	180532	0,950 1
180523	metric	ISO 50	180534	0,636 1
180525	metric	ISO 63	180534	0,974 1
180500	PG	PG9	180530	0,097 1
180502	PG	PG11	180530	0,106 1
180504	PG	PG13,5	180530	0,115 1
180506	PG	PG16	180530	0,100 1
180508	PG	PG21	180530	0,176 1
180510	PG	PG29	180532	0,400 1
180512	PG	30,5	180534	0,202 1
180514	PG	PG36	180534	0,590 1
180516	PG	PG42	180534	1,250 1
180518	PG	PG48	180534	0,319 1
180520	PG	1 1/8"	180530	0,250 1

Spare screws

Spare screws for screw punches



Art. no.	size	kg	PU
180530	10 x 1,0	0,048	1
180532	12 x 1,5	0,070	1
180534	16 x 1,5	0,139	1



Rotary guide value for step drills/cone drills

Material	unleg. Baustahl < 700 N/mm ² Mild steel < 700 N/mm ²	unleg. Baustahl > 700 N/mm ² Mild steel > 700 N/mm ²	leg. Stahl < 1000 N/mm ² Alloy steel < 1000 N/mm ²	Gußeisen < 250 N/mm ² Cast iron < 250 N/mm ²	Gußeisen > 250 N/mm ² Cast iron > 250 N/mm ²	Edelstahl rostfrei Stainless steel	CuZn Leg. spröde CuZn alloy brittle	CuZn Leg. zäh CuZn alloy tough	AL Leg. < 11% Si Alloy steel < 11% Si	Thermo- plaste Thermo plastic	Duro- plaste Duro plastic	Holz Wood
Materialstärke Material gauge	6,0 mm	6,0 mm	6,0 mm	6,0 mm	6,0 mm	3,0 mm	6,0 mm	6,0 mm	6,0 mm	6,0 mm	6,0 mm	25,0 mm
Kühlung Lubricant	Bohrpaste Drilling paste	Bohrpaste Drilling paste	Bohrpaste Drilling paste	Luft Air	Luft Air	Bohrpaste Drilling paste	Luft Air	Luft Air	Bohrpaste Drilling paste	H ⁰ Air	Luft Air	Luft Air
Vc = m / min	25	20 - 25	20	15	10	5	60	35	30	20	15	> 40
Ø mm	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m
4,0 - 12,0	1900 - 600	1700 - 580	1550 - 520	1190 - 400	800 - 250	400 - 130	4700 - 1550	2750 - 920	2350 - 790	1550 - 520	1190 - 400	3000 - 1000
4,0 - 20,0	1900 - 400	1700 - 350	1550 - 300	1190 - 240	800 - 160	400 - 80	4700 - 950	2750 - 550	2350 - 470	1550 - 300	1190 - 240	3000 - 650
12,0 - 20,0	600 - 400	600 - 350	520 - 300	400 - 240	250 - 160	130 - 80	1550 - 950	920 - 550	790 - 470	520 - 300	400 - 240	1000 - 650
4,0 - 24,0	1900 - 300	1700 - 280	1550 - 250	1190 - 200	800 - 130	400 - 65	4700 - 790	2750 - 460	2350 - 400	1550 - 250	1190 - 200	3000 - 550
6,0 - 30,0	1300 - 250	1200 - 230	1000 - 200	780 - 150	530 - 100	250 - 50	3150 - 630	1850 - 370	1590 - 310	1000 - 200	780 - 150	2100 - 420
20,0 - 30,0	400 - 250	350 - 230	300 - 200	230 - 150	160 - 100	80 - 50	950 - 630	550 - 370	470 - 310	300 - 200	230 - 150	650 - 420
6,0 - 36,0	1300 - 220	1200 - 200	1000 - 170	780 - 130	530 - 90	250 - 45	3150 - 530	1850 - 300	1590 - 260	1000 - 170	780 - 130	2100 - 350
30,0 - 40,0	250 - 200	230 - 180	200 - 150	150 - 120	100 - 80	50 - 40	630 - 470	370 - 280	310 - 240	200 - 150	150 - 120	420 - 310
40,0 - 50,0	200 - 160	180 - 140	150 - 125	120 - 90	80 - 65	40 - 30	470 - 380	280 - 220	240 - 190	150 - 125	120 - 90	310 - 250
50,0 - 60,0	160 - 130	140 - 110	125 - 100	90 - 80	65 - 50	30 - 25	380 - 310	220 - 185	190 - 150	125 - 100	90 - 80	250 - 210

Diamond hollow core cutters

Diamond hollow core cutters

Carrier turned from solid material, suitable for soft materials and brickwork, concrete and artificial stone, takes M 16, without receiving shaft and centre drill, **laser-welded, use only without impact**



Art. no.	∅	shank	kg	PU
230676	68	without	0,453	1
230677	82	without	0,590	1

Diamond hollow core cutters

shank M 16, with tapered cylindrical drill bit, **laser-welded, use only without impact**



Art. no.	∅	shank	kg	PU
230676/K	68	SDS-plus	0,672	1
230677/K	82	SDS-plus	0,764	1

Diamond hollow core cutter special

Diamond drill bit for socket outlets **with laser welded segments**, suitable for soft materials and brickwork, concrete and artificial stone, optimal rotating speed 800 - 1.000 U/min, maximum rotating speed 1.600 - 1.800 U/min, **use only without impact**



Art. no.	∅	shank	kg	PU
230885/K	68	SDS-plus	0,450	1
230886/K	82	SDS-plus	0,787	1

Drill for Diamond hollow core cutters

tapered shank



Art. no.	TL	∅	kg	PU
230679	120	9	0,044	1

Shank for hollow core cutters, SDS-Plus

SDS-Plus-shank, M 16, conic



Art. no.	TL	shank	kg	PU
230681/K	100	SDS-plus	0,150	1

Hollow core cutters

for tungsten carbide tipped, with centre bit and 100 mm hexagon shank, 12 mm



Art. no.	∅	shank	kg	PU
230661	68	hexagon	0,832	1
230665	82	hexagon	1,158	1
230667	68	SDS-plus	0,827	1
230675	82	SDS-plus	1,079	1

Centre bits with tungsten carbide tipped cutting edge

for tungsten carbide tipped hollow core cutters, cylindrical



Art. no.	TL	∅	kg	PU
230680	120	9	0,038	1

Shank for hollow core cutters, SW 12

hexagon shank, SW 12, for centre bits, cylindrical cutter



Art. no.	shank	kg	PU
230678	hexagon	0,139	1

Shank for hollow core cutters

SDS-Plus-shank, M16, connection thread, cylindrical cutter



Art. no.	TL	shank	kg	PU
230681	100	SDS-plus	0,121	1

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Cutting discs

Diamond cutting blades

laser-welded, high diamond concentration, long life, for the professional works
- Industrial quality -



Art. no.	∅		kg	PU
230689	115		0,100	1
230691	125		0,149	1
230720	135	(FUBAG)	0,193	1
230721	140	(FLEX)	0,219	1
230704	150		0,245	1
230705	180		0,317	1
230706	230		0,700	1
230711	300		1,256	1

Diamond cutting blades

sintered - Profi Quality -



Art. no.	∅		kg	PU
230701	115		0,132	1
230702	125		0,169	1
230708	180		0,339	1
230709	230		0,681	1

Diamond cutting blades, FL tiles

- Profi Quality -, continuous rim. universal application, granite, tiles, ceramics, stone- and marble-flatters



Art. no.	∅		kg	PU
230714	115		0,121	1

Diamond cutting blades, TBM Turbo

- Profi quality -



Art. no.	∅		kg	PU
230722	115		0,120	1
230723	125		0,134	1
230725	230		0,706	1

INFO

Hole saws

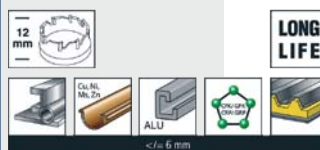
Industrial quality

The performance of a saw blade depends on the base material quality, the kind of tothing and the tooth geometry. These factors guarantee in conjunction with the correct use of the machine and blade selection the optimum result in cutting all materials.

- Above average concentricity
- Even cutting performance
- Extremely quiet operation even at high speeds
- True diameter
- High resistance even with high loads and torques
- Fast progress thanks to aggressive and permanently sharp cutting performance
- Highest lifetime even with very hard materials such as cast and stainless steel

T.C.T. Hole Saw

High concentricity and smooth cutting through strong construction. Precise and clean cut. Large tungsten carbide inserts for reshaping and long lifetime. Hole saw comes complete with shank, drill bit, ejector spring and allen key. Long lifetime. **especially for:** Flat materials of steel, cast steel, stainless steel (up to 4 mm), Chrome-nickel Steel (up to 2 mm), non-ferrous metals, glass-fibre and carbon-fibre reinforced products (CRP, GRP), epoxy, reinforced textures and sandwich-materials (up to 6 mm).



Art. no.	∅		kg	PU
392100	16		0,095	1
392102	20		0,115	1
392104	22		0,135	1
392106	22,5		0,155	1
392108	25		0,175	1
392110	30		0,195	1
392112	32		0,215	1
392114	35		0,235	1
392116	40		0,255	1
392118	50		0,275	1
392120	60		0,295	1

T.C.T. center drill for hole saw arbors



Art. no.	TL	∅		kg	PU
392122	100	6,5		0,020	1

Spring for hole saw arbors



Art. no.			kg	PU
392124			0,005	1

Hollow saws

T.C.T. Hole Saw Fastcut

Very fast and aggressive cut in wood due to large exhaust slots. **especially for:** wood materials up to 60 mm.



Art. no.	Ø/Inch	Ø	kg	PU
231942	3/4	19	0,047	1
231944	7/8	22	0,062	1
231946	1	25	0,077	1
231948	1 1/6	27	0,092	1
231950	1 3/16	30	0,115	1
231952	1 1/4	32	0,122	1
231954	1 3/8	35	0,133	1
231956	1 9/16	40	0,123	1
231958	1 3/4	44	0,144	1
231960	2	51	0,179	1
231962	2 1/8	54	0,198	1
231964	2 3/8	60	0,206	1
231966	2 1/2	64	0,267	1
231968	2 9/16	65	0,279	1
231970	2 11/16	68	0,275	1
231972	2 3/4	70	0,316	1
231973	2 7/8	73	0,296	1
231974	3	76	0,298	1
231976	3 1/8	79	0,379	1
231978	3 1/4	83	0,428	1
231980	4	102	0,591	1
231982	4 1/2	114	0,773	1

Bi-Metal Hole Saws 10 tpi

8% Cobalt

Finely toothed, 10 tpi, made of high quality, cobalt-alloyed bi-metal for clean and fast cuts and a long lifetime. Massive back plate ensures a smooth cut and precise holes for threads, cable and pipe lead-throughs. **especially for:** steel and stainless steel, sheet metal up to 1 mm.



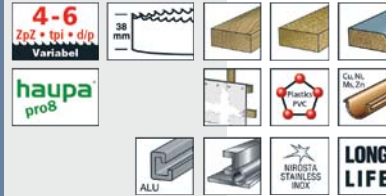
Art. no.	Ø	kg	PU
392050	16	0,036	1
392052	19	0,039	1
392054	20	0,046	1
392056	21	0,052	1
392058	22	0,055	1
392060	24	0,059	1
392062	25	0,064	1
392064	29	0,070	1
392066	30	0,077	1
392068	32	0,081	1
392070	38	0,092	1
392072	40	0,098	1

Bi-Metal Hole Saws 4 - 6 tpi

8% Cobalt

Variable toothing of 4 - 6 tpi and high quality, cobaltalloyed bi-metal for clean and fast cuts and a long lifetime. Massive back plate ensures a smooth cut and precise holes for sockets, threads, cable and pipe lead-throughs.

especially for: Wood, gypsum board, plastics, non-ferrous metals, aluminium steel and stainless steel minimum 1 mm. Special cutting depth on request.



Art. no.	Ø/Inch	Ø	kg	PU
231803	9/16	14	0,036	1
231900	3/4	19	0,036	1
231901/21		21	0,050	1
231902	7/8	22	0,046	1
231904	1	25	0,071	1
231904/29		29	0,050	1
231906	1 1/6	27	0,075	1
231908	1 3/16	30	0,079	1
231910	1 1/4	32	0,085	1
231912	1 3/8	35	0,092	1
231912/38		38	0,050	1
231914	1 9/16	40	0,086	1
231914/46		46	0,050	1
231916	1 3/4	44	0,105	1
231918	2	51	0,133	1
231920	2 1/8	54	0,145	1
231922	2 3/8	60	0,168	1
231924	2 1/2	64	0,192	1
231926	2 9/16	65	0,198	1
231928	2 11/16	68	0,214	1
231930	2 3/4	70	0,223	1
231931	2 7/8	73	0,236	1
231932	3	76	0,253	1
231934	3 1/8	79	0,275	1
231936	3 1/4	83	0,304	1
231938	4	102	0,429	1
231939/111		111	0,050	1
231940	4 1/2	114	0,549	1
231940/127		127	0,050	1
231940/152		152	0,650	1
231940/210		210	0,850	1

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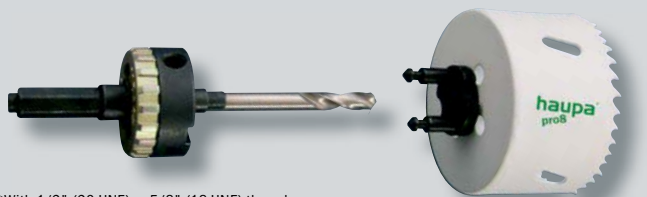
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INFO

RE-LOAD

Professional Quick Release System for Hole Saws

- Change quickly in seconds between the different diameters and various types of hole saws.
- One arbor for all diameters between 14 - 210 mm.
- Absolute concentricity and diameter true to size.
- Compact "heavy duty" design for highest demands and very long life.
- No time-consuming seizing up of the hole saw onto the thread of the arbor.
- Runs two hole saws at the same time. A smaller diameter guides as a centering aid when enlarging already existing holes.
- Fits all standard hole saw brands.*



*With 1/2" (20 UNF) or 5/8" (18 UNF) thread.

Quick change holder for hole saws, "RE-LOAD"

RE-LOAD

for all diameters from 14-210 mm, 9.5 mm hexagonal shank



Art. no.		kg	PU
392010	14 - 210	0,100	1

Adapter assortment for holder, "RE-LOAD"

RE-LOAD



Art. no.	set	kg	PU
392012	5 x Ø 14-30 mm	0,100	1
392014	5 x Ø 32-210 mm	0,075	1
392016	2 x Ø 14-30 mm, 3 x Ø 32-210 mm	0,065	1

Adapter assortment for hole enlarger "RE-LOAD"

RE-LOAD

1 x Ø 14 - 30 mm, 1 x Ø 32 - 210 mm



Art. no.		kg	PU
392018	Adapter	0,050	1

Centre drill for holder, "RE-LOAD"

RE-LOAD



Art. no.	TL	Ø	kg	PU
392020	100	6,5	0,030	1
392022	100	6,5	0,030	1

Hex shank with plug ejection

hexagon shank



Art. no.		kg	PU
392028	32 - 210	0,050	1

SDS-shank

hexagon shank, 11 mm (14 - 30 mm)



Art. no.		kg	PU
392024	14 - 30	0,050	1

SDS-shank

hexagon shank, 11 mm (32 - 210 mm)



Art. no.		kg	PU
392026	32 - 210	0,050	1

Adapter "QuickLock"

hexagon shank



Art. no.	size	shank	kg	PU
231998	14-30	hexagon	0,067	1
231999	32-152	hexagon	0,107	1

Centre drills for 231998 / 231999



Art. no.	TL	type	Ø	shank	kg	PU
232007	120	universal	9	hexagon	0,020	1

Threading bits, taps



Threading bits, taps

HSS taps "Direct cutter"

with intermittent teeth, dimensions to DIN 371, or ISO metric thread to DIN 13



Art. no.	shank	thread	kg	PU
230982	4,5	4	0,008	1
230984	6	5	0,014	1
230986	6	6	0,017	1
230988	6	8	0,012	1

Taps for armoured steel conduits, metric thread



Art. no.	thread	kg	PU
140236	16	0,040	1
140238	20	0,060	1
140240	25	0,206	1
140242	32	0,359	1
140244	40	0,648	1
140246	50	0,230	1
140248	63	1,688	1

Adjustable tap wrenches

short pattern



Art. no.	thread	tap wrench	kg	PU
140180	M 7-25	21	0,850	1
140182	M 32-63	48	1,900	1

Nipple threading dies

with guide, replaceable dies and taps



Art. no.	thread	kg	PU
140190	M 10	0,100	1
140192	M 13	0,130	1

Nipple threading dies

with guide, replaceable dies and tap



Art. no.	thread	kg	PU
140210	M 10, M 13	0,210	1

Complete stocks, metric thread



Art. no.	thread	kg	PU
140214	M 16, M 20, M 25	1,000	1
140216	M 20, M 25	1,350	1
140218	M 32, M 40	2,850	1
140220	M 50, M 63	3,500	1

Dies, metric thread



Art. no.	thread	kg	PU
140222	M16	0,175	1
140224	M20	0,138	1
140226	M25	0,145	1
140228	M32	0,477	1
140230	M 40	0,130	1
140232	M 50	0,980	1
140234	M 63	0,791	1

Guides, metric



Art. no.	thread	kg	PU
140250	16	0,037	1
140252	20	0,040	1
140254	25	0,035	1
140256	32	0,030	1
140258	40	0,060	1
140260	50	0,070	1
140262	63	0,134	1

Screw extractor set



Art. no.	size	kg	PU
230682	1-5/M3-18	0,111	1
230683	1-6/M3-24	0,231	1

Hand taps DIN 352, type N/HSS

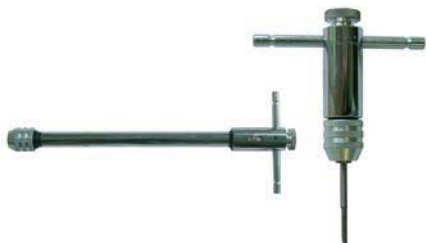
set of 3, for ISO metric thread to DIN, 1, 2, 3-cutter, made of HSS, for pass-through threading, for good chipping steel up to approx. 900 N/mm²



Art. no.	∅	shank	thread	kg	PU
230800	1	2,5	1	0,010	1
230802	1,4	2,5	1,4	0,010	1
230804	1,6	2,5	1,6	0,002	1
230806	1,8	2,5	1,8	0,002	1
230808	2	2,8	2	0,002	1
230810	2,2	2,8	2,2	0,002	1
230812	2,5	2,8	2,5	0,002	1
230814	3	3,5	3	0,003	1
230816	3,5	4	3,5	0,004	1
230818	4	4,5	4	0,004	1
230820	4,5	5,5	4,5	0,005	1
230822	5	6	5	0,034	1
230824	6	6	6	0,035	1
230826	7	6	7	0,039	1
230828	8	6	8	0,046	1
230830	9	7	9	0,065	1
230832	10	7	10	0,071	1
230834	11	8	11	0,025	1
230836	12	9	12	0,115	1
230838	14	11	14	0,052	1
230840	16	12	16	0,062	1
230842	18	14	18	0,102	1
230844	20	16	20	0,125	1
230846	22	18	22	0,182	1
230848	24	18	24	0,205	1
230850	27	20	27	0,260	1
230852	30	22	30	0,395	1
230854	33	25	33	0,480	1
230856	36	28	36	0,645	1
230858	39	32	39	0,820	1
230860	42	32	42	0,930	1
230862	45	36	45	1,140	1
230864	48	36	48	1,370	1
230866	52	40	52	1,650	1
230868	56	45	56	2,800	1
230870	60	45	60	2,900	1

Ratchet wrenches

for right-hand and left-hand action



Art. no.	shank	thread	kg	PU
231070	2,4 - 5,5	M3 - 9	0,174	1
231072	4,5 - 7,0	M9 - 12	0,271	1
231074	2,4 - 5,5	M3 - 9	0,291	1
231076	4,5 - 7,0	M5 - 12	0,420	1

HSS taps set

with taps to DIN 352, in metal box, contents: M3, M 4, M 5, M 6, M 8, M 10, M 12



Art. no.	Content	kg	PU
231080	23-pieces M 3, 4, 5, 6, 8, 10, 12	0,696	1

Combi, threading bit set, made of HSSG SGE-Bit (DBGM)

for drilling, threading and countersinking, for stand drilling machines and hand drills, suitable for steel and NE metal up to 1 xd (M 6 = 6 mm thickness of material), up to 600 N/mm² tensile strength, rpm according to the cutting speeds of the tride, in metal box



Art. no.	Content	kg	PU
231082	7-pieces M 3, 4, 5, 6, 8, 10	0,188	1

Adjustable tap wrenches DIN 1814

for taps



Art. no.	thread	tap wrench	kg	PU
231050	M1 - 8	0	0,050	1
231052	M1 - 10	1	0,099	1
231054	M1 - 12	1,5	0,097	1
231056	M4 - 12	2	0,285	1
231058	M5 - 21	3	0,700	1
231060	M9 - 27	4	1,270	1
231062	M12 - 33	5	1,630	1
231064	M19 - 38	6	4,520	1

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Tap set

HSS Tap set

Contents:

hand tap (DIN 352) M 3, 4, 5, 6, 8, 10, 12
 Dies (DIN 223) M 3, 4, 5, 6, 8, 10, 12,
 Dies stock 20 x 5/20 x 7/25 x 9/30 x 11/38 x 14 mm
 tape holder size 1 + 2, in metal box



Art. no.		kg	PU
231280	23-pieces	3,700	1

HSS Tap set

Contents:

Hand tap (DIN 352) M 5, 6, 8, 10, 12, 14, 16, 18, 20
 Dies (DIN 223) M 5, 6, 8, 10, 12, 14, 16, 18, 20
 Dies holder 20 x 7/25 x 9/30 x 11/38 x 14/ 45 x 18 mm
 Tap holder size 1 + 3, in metal box



Art. no.		kg	PU
231282	25-pieces	8,200	1

Measuring tools

Folding rules

with spring joint, mm-graduations on both sides



Art. no.	TL	type	width	kg	PU
240002	2 m	wood	16	0,022	1
240005	2 m	fibre glass	16	0,138	1

Measuring tapes

with spring steel tapes, case: plastic, with automatic return motion and locking key, tape with stove-enamel finished



Art. no.	TL	width	kg	PU
240011	3 m	13	0,104	1
240012	5 m	16	0,179	1

Measuring tapes

in metal case, with woven rayon tape, strengthened against stretching by 8 bronze wires woven into tape, scale graduations both sides: metres and centimetres



Art. no.	TL	width	kg	PU
240018	20 m	16	0,432	1
240020	25 m	16	0,544	1
240022	30 m	16	0,586	1
240024	50 m	16	0,857	1

Aluminium spirit levels

bubble level made of acrylic glass, accuracy of measurement: 0,043° = 0,75 mm/m



Art. no.	TL	kg	PU
240041	300	0,168	1
240042	400	0,198	1
240044	600	0,282	1
240046	800	0,406	1
240048	1000	0,534	1

Measuring tools

Electrician's safety levels

nonconducting plastic material, with 2 tubes horizontal and vertical



Art. no.	TL	kg	PU
240057	400	0,188	1
240058	600	0,274	1

Cabinet levels

Torped type, nonconducting plastic material, with 3 tubes horizontal, vertical and 45°



Art. no.	TL	kg	PU
240059	200	0,078	1

Precision pocket vernier calipers „Stainless“

manufactured from stainless steel, completely hardened, with measuring nibs, depth gauge and thread tables, in plastic wallet, 1/20" or 1/128 mm, size 140 mm



Art. no.	kg	PU
240071	0,157	1

Precision pocket vernier calipers „digital“

manufactured from stainless steel, completely hardened, with measuring nibs, depth gauge and thread tables, in plastic box with sight window, 1/20" or 1/128 mm, size 140 mm



Art. no.	kg	PU
240073	0,150	1

Engineers' squares

manufactured from steel, bright



Art. no.	TL	width	kg	PU
240132	150x100	20	0,181	1
240134	200x130	20	0,237	1
240136	250x160	25	0,378	1
240138	300x180	25	0,445	1

Engineers' squares

manufactured from steel, bright



Art. no.	TL	width	kg	PU
240152	150x100	20	0,170	1
240154	200x130	20	0,340	1
240156	250x160	25	0,511	1
240158	300x180	25	0,440	1
240160	400x230	30	0,783	1

Steel point scribers

knurled handle, replaceable screw-out hardened points, handle with one straight and one bent point (90°)



Art. no.	TL	kg	PU
240234	250	0,046	1

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Screws
Screws assortments



Wood screws

Universal countersunk screw



Chipboard screw, galvanised, counter-sunk head, **Pozidriv**



Art. no.	TL	Ø	Drive	PU	PrU	kg
790005	15	3,0	PZ 2	200	100	0,002
790006	25	3,0	PZ 2	200	100	0,002
790008	40	3,0	PZ 2	200	100	0,002
790015	20	3,5	PZ 2	200	100	0,001
790016	25	3,5	PZ 2	200	100	0,001
790017	30	3,5	PZ 2	200	100	0,002
790018	35	3,5	PZ 2	200	100	0,002
790079	40	3,5	PZ 2	200	100	0,002
790027	30	4,0	PZ 2	200	100	0,002
790029	40	4,0	PZ 2	200	100	0,002
790030	45	4,0	PZ 2	200	100	0,003
790031	50	4,0	PZ 2	200	100	0,003
790040	35	4,5	PZ 2	200	100	0,003
790041	40	4,5	PZ 2	200	100	0,003
790043	50	4,5	PZ 2	200	100	0,004
790051	30	5,0	PZ 2	100	100	0,003
790053	40	5,0	PZ 2	100	100	0,004
790054	50	5,0	PZ 2	100	100	0,005
790055	60	5,0	PZ 2	100	100	0,005
790056	80	5,0	PZ 2	100	100	0,007
790063	50	6,0	PZ 3	100	100	0,007
790064	60	6,0	PZ 3	50	100	0,008
790065	80	6,0	PZ 3	50	100	0,011

Universal pan head screw



Chipboard screw, galvanised, pan head, **Pozidriv cross-head**



Art. no.	TL	Ø	Drive	PU	PrU	kg
790091	30	3,5	PZ 2	200	100	0,002
790093	40	3,5	PZ 2	200	100	0,002
790100	30	4,0	PZ 2	200	100	0,002
790101	35	4,0	PZ 2	200	100	0,002
790102	40	4,0	PZ 2	200	100	0,003
790103	45	4,0	PZ 2	200	100	0,003
790104	50	4,0	PZ 2	200	100	0,003
790111	40	4,5	PZ 2	200	100	0,004
790112	45	4,5	PZ 2	200	100	0,004
790113	50	4,5	PZ 2	200	100	0,004
790118	30	5,0	PZ 2	200	100	0,004
790120	40	5,0	PZ 2	200	100	0,005
790121	50	5,0	PZ 2	200	100	0,005

Hexagonal wood screws, hot zinc dipped



in accordance with DIN 571, **hot zinc dipped**, general requirements according to DIN 267 Part 1



Art. no.	TL	Ø	WS	Drive	PU	PrU	kg
790212/V	80	6,0	10	Hexagon	25	100	0,015
790223/V	60	8,0	13	Hexagon	25	100	0,021
790224/V	80	8,0	13	Hexagon	25	100	0,027
790235/V	60	10,0	17	Hexagon	10	100	0,036

Dry wall screws



galvanised, counter-sunk head, **Tx**



Art. no.	TL	Ø	Drive	PU	PrU	kg
790920	32	3,9	Tx 20	200	100	0,002
790922	41	3,9	Tx 20	200	100	0,002

Chipboard screw countersunk „TwinSpeed“



Chipboard screw, galvanised, counter-sunk head, **Tx, double helix thread**, considerably shortened screw-in times when compared to traditional screws thanks to the double start thread. **Uses:** Wood, plywood, plasterboard, rawlplugs



Art. no.	TL	Ø	Drive	PU	PrU	kg
793005	16	3,0	Tx 10	200	100	0,002
793006	25	3,0	Tx 10	100	100	0,002
793007	32	3,0	Tx 10	100	100	0,002
793008	38	3,0	Tx 10	100	100	0,002
793027	32	4,0	Tx 15	100	100	0,002
793029	38	4,0	Tx 15	100	100	0,002
793030	45	4,0	Tx 15	100	100	0,003
793031	50	4,0	Tx 15	100	100	0,003
793040	32	4,5	Tx 20	100	100	0,003
793041	38	4,5	Tx 20	100	100	0,003
793043	50	4,5	Tx 20	100	100	0,004
793051	30	5,0	Tx 25	100	100	0,003
793053	38	5,0	Tx 25	100	100	0,004
793054	50	5,0	Tx 25	100	100	0,005
793055	60	5,0	Tx 25	100	100	0,005
793064	60	6,0	Tx 30	50	100	0,008
793065	80	6,0	Tx 30	50	100	0,011

Chipboard screw pan head „TwinSpeed“



Chipboard screw, galvanised, pan head, **Tx, double helix thread**, considerably shortened screw-in times when compared to traditional screws thanks to the double start thread. **Uses:** Wood, plywood, plasterboard, rawlplugs



Art. no.	TL	Ø	Drive	PU	PrU	kg
793099	20	4,0	Tx 15	100	100	0,002
793100	32	4,0	Tx 15	100	100	0,002
793101	35	4,0	Tx 15	100	100	0,002
793102	38	4,0	Tx 15	100	100	0,003
793103	45	4,0	Tx 15	100	100	0,003
793104	50	4,0	Tx 15	100	100	0,003
793111	38	4,5	Tx 20	100	100	0,004
793112	45	4,5	Tx 20	100	100	0,004
793113	50	4,5	Tx 20	100	100	0,004
793118	32	5,0	Tx 25	100	100	0,004
793120	38	5,0	Tx 25	100	100	0,005
793121	50	5,0	Tx 25	100	100	0,005
793125	60	6,0	Tx 30	50	100	0,002

Hexagonal wood screws



in accordance with DIN 571, galvanised, general requirements according to DIN 267 Part 1



Art. no.	TL	Ø	WS	Drive	PU	PrU	kg
790210	40	6,0	10	Hexagon	50	100	0,008
790211	60	6,0	10	Hexagon	25	100	0,012
790212	80	6,0	10	Hexagon	25	100	0,015
790222	50	8,0	13	Hexagon	50	100	0,018
790223	60	8,0	13	Hexagon	25	100	0,021
790224	80	8,0	13	Hexagon	25	100	0,027
790225	100	8,0	13	Hexagon	25	100	0,033
790235	60	10,0	17	Hexagon	10	100	0,036
790236	80	10,0	17	Hexagon	10	100	0,048
790237	100	10,0	17	Hexagon	10	100	0,055

Hooks

galvanised



Art. no.	Ø	SftL	PU	PrU	kg
790900	4,2	50	50	100	0,006
790902	5,8	80	10	100	0,008

Tin screws, assembly screws

TwinSpeed self tapping screw

galvanised, Linsenkopf, **Phillips cross-head** and **double helix thread**, considerably shortened screw-in times when compared to traditional screws thanks to the double start thread. **Uses:** Wood, plywood, plasterboard, rawlplugs



Art. no.	TL	Ø	Drive	PU	PrU	kg
790303	19	3,5	PH 2	100	100	0,001
790311	32	3,5	PH 2	100	100	0,002
790325	13	4,2	PH 2	100	100	0,001
790326	16	4,2	PH 2	100	100	0,001
790327	19	4,2	PH 2	100	100	0,001
790329	25	4,2	PH 2	100	100	0,002
790332	31	4,2	PH 2	100	100	0,002
790333	38	4,2	PH 2	100	100	0,003
790334	45	4,2	PH 2	100	100	0,003
790335	65	4,2	PH 2	100	100	0,005

Plate screw DIN 7504

in accordance with DIN 7504M (formerly N), **self-tapping**, hardened steel, galvanised, pan head with **Phillips slot**, plate screw thread according to DIN 7970



Art. no.	TL	Ø	Drive	PU	PrU	kg
790411	13	3,5	PH 2	200	100	0,001
790413	19	3,5	PH 2	200	100	0,001
790416	13	3,9	PH 2	200	100	0,001
790417	16	3,9	PH 2	200	100	0,002
790419	25	3,9	PH 2	200	100	0,002
790422	13	4,2	PH 2	200	100	0,002
790423	16	4,2	PH 2	200	100	0,002
790424	19	4,2	PH 2	200	100	0,002
790426	25	4,2	PH 2	200	100	0,002
790428	35	4,2	PH 2	200	100	0,002
790432	13	4,8	PH 2	200	100	0,002
790433	16	4,8	PH 2	200	100	0,003
790434	19	4,8	PH 2	200	100	0,003
790436	25	4,8	PH 2	200	100	0,003

Plate screw DIN 7504, Tx

in accordance with DIN 7504M (formerly N), **self-tapping**, hardened steel, galvanised, **Tx**, plate screw thread according to DIN 7970



Art. no.	TL	Ø	Drive	PU	PrU	kg
790510	13	4,2	Tx 20	100	100	0,002
790512	16	4,2	Tx 20	100	100	0,002
790514	19	4,2	Tx 20	100	100	0,002
790516	25	4,2	Tx 20	100	100	0,002

Mounting screws

galvanised with washer, **Phillips cross-head**, **self-cutting**



Art. no.	TL	Ø	Drive	PU	PrU	kg
790450	13	4,2	PH 2	100	100	0,001
790452	25	4,2	PH 2	100	100	0,002
790454	31	4,2	PH 2	100	100	0,002
790456	45	4,2	PH 2	100	100	0,003

Mounting screws

self-cutting and **self-boring**, galvanised with washer, **Tx**



Art. no.	TL	Ø	Drive	PU	PrU	kg
790500	13	4,2	Tx 20	100	100	0,001
790502	19	4,2	Tx 20	100	100	0,002
790504	25	4,2	Tx 20	100	100	0,002

Mounting screws

self-cutting and **self-boring**, galvanised with washer, **Phillips cross-head**



Art. no.	TL	Ø	Drive	PU	PrU	kg
790470	13	4,2	PH 2	100	100	0,001

Machinery screws, cylinder screws

Hexagonal machine screws

according to DIN 933, continuous thread, galvanised, **8.8 quality**



Art. no.	TL	Ø	WS	Drive	PU	PrU	kg
790540	20	M6	10	Hexagon	100	100	0,006
790542	25	M6	10	Hexagon	100	100	0,007
790544	30	M6	10	Hexagon	100	100	0,008
790562	20	M8	13	Hexagon	100	100	0,012
790564	25	M8	13	Hexagon	100	100	0,014
790566	30	M8	13	Hexagon	100	100	0,016
790588	20	M10	17	Hexagon	100	100	0,023
790592	30	M10	17	Hexagon	100	100	0,028
790616	30	M12	19	Hexagon	50	100	0,040
790618	40	M12	19	Hexagon	50	100	0,047

Socket cup screw DIN 84 Form A

in accordance with ISO 1207, EN 21207 or DIN 84, Form A, **with slot**, made of hardened steel, galvanised, **4.8 quality**



Art. no.	TL	Ø	Drive	PU	PrU	kg
790806	16	M3	slot 5,5x0,8	200	100	0,001
790808	20	M3	slot 5,5x0,8	200	100	0,001
790832	16	M4	slot 7,0x1,2	200	100	0,002
790834	20	M4	slot 7,0x1,2	200	100	0,002
790837	30	M4	slot 7,0x1,2	200	100	0,003
790862	16	M5	slot 8,5x1,2	200	100	0,003
790864	20	M5	slot 8,5x1,2	200	100	0,004
790867	30	M5	slot 8,5x1,2	200	100	0,005
790882	16	M6	slot 10,0x1,6	200	100	0,005
790884	20	M6	slot 10,0x1,6	200	100	0,005
790888	30	M6	slot 10,0x1,6	200	100	0,007

Machine screw counter sunk

continuous thread, zinc-plated, counter-sunk head, **Pozidriv**



Art. no.	TL	Ø	Drive	PU	PrU	kg
790700	20	M3	PZ 2	100	100	0,001
790702	30	M3	PZ 2	100	100	0,001
790704	40	M3	PZ 2	100	100	0,002
790706	50	M3	PZ 2	100	100	0,002
790710	20	M4	PZ 2	100	100	0,002
790712	30	M4	PZ 2	100	100	0,003
790714	40	M4	PZ 2	100	100	0,003
790716	50	M4	PZ 2	100	100	0,004
790721	25	M5	PZ 2	100	100	0,004
790722	30	M5	PZ 2	100	100	0,004
790724	40	M5	PZ 2	100	100	0,005
790726	50	M5	PZ 2	100	100	0,007

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Hexagonal nuts, washers

Hexagonal nut DIN 934

in accordance with ISO 4032, EN 24032 or DIN 934, steel galvanised, **8 quality**



Art. no.	∅	WS	PU	PrU	kg
792000	M3	5,5	200	100	0,001
792001	M4	7,0	200	100	0,001
792002	M5	8,0	200	100	0,001
792003	M6	10,0	200	100	0,002
792005	M8	13,0	200	100	0,005
792006	M10	17,0	200	100	0,011
792008	M12	19,0	100	100	0,010

Washers DIN 125

in accordance with ISO 7089, EN 27089 or DIN 125, Form A without chamfer, steel galvanised



Art. no.	M	d1	d4	PU	PrU	kg
792600	M3	3,2	7,0	200	100	0,000
792602	M4	4,3	9,0	200	100	0,000
792603	M5	5,3	10,0	200	100	0,001
792604	M6	6,4	12,0	200	100	0,001
792606	M8	8,4	16,0	200	100	0,002
792607	M10	10,5	20,0	200	100	0,003

Washers

in accordance with ISO 7093, DIN 9021N, zinc-plated steel



Art. no.	M	d1	d4	PU	PrU	kg
792650	M4	4,3	12,0	100	100	0,001
792651	M5	5,3	15,0	100	100	0,001
792652	M6	6,4	20,0	100	100	0,012
792654	M8	8,4	25,0	100	100	0,011
792656	M10	10,5	40,0	100	100	0,010
792658	M12	13,0	40,0	100	100	0,010

Spring washers

according to DIN 127, form A, **curved**, zinc-plate steel



Art. no.	M	d1	d4	PU	PrU	kg
792756	M6	6,4	11,8	100	100	0,001
792758	M8	8,4	14,8	100	100	0,002
792760	M10	10,5	18,1	100	100	0,003
792762	M12	13,0	21,1	100	100	0,004

Screws assortments

"Mix" Screws assortment box



Contents: 1.425 screws, in plastic bulk storage chest 420 x 350 x 60 mm

Qty.	Description	Size	Drive	Art. no.
200	universal counter-sunk screws	3,5 x 20	PZ2	790015
200	universal counter-sunk screws	3,5 x 30	PZ2	790017
200	universal counter-sunk screws	3,5 x 40	PZ2	790079
200	universal counter-sunk screws	4,5 x 35	PZ2	790040
100	universal counter-sunk screws	4,5 x 50	PZ2	790043
50	universal counter-sunk screws	5,0 x 80	PZ2	790056
50	universal counter-sunk screws	6,0 x 50	PZ3	790063
200	universal pan head screws	3,5 x 30	PZ2	790091
100	universal pan head screws	4,0 x 40	PZ2	790102
50	universal pan head screws	5,0 x 50	PZ2	790121
50	hexagonal wood screws	6 x 40		790210
25	hexagonal wood screws	6 x 80		790212



Art. no.	empty	Content	kg	PU	PrU
792802	220131	1.425-pcs	5,022	1	1

"Pan head" Screws assortment box



Contents: 1.700 screws, in plastic bulk storage chest 420 x 350 x 60 mm

Qty.	Description	Size	Drive	Art. no.
200	universal pan head screws	3,5 x 30	PZ2	790091
200	universal pan head screws	3,5 x 40	PZ2	790093
200	universal pan head screws	4,0 x 30	PZ2	790100
200	universal pan head screws	4,0 x 40	PZ2	790102
200	universal pan head screws	4,0 x 50	PZ2	790104
200	universal pan head screws	4,5 x 40	PZ2	790111
200	universal pan head screws	4,5 x 50	PZ2	790113
100	universal pan head screws	5,0 x 30	PZ2	790118
100	universal pan head screws	5,0 x 40	PZ2	790120
100	universal pan head screws	5,0 x 50	PZ2	790121

1 Bit-Box 17-pcs., incl. holder

102210



Art. no.	empty	Content	kg	PU	PrU
792804	220131	1.700-pcs	5,000	1	1

Screws assortments

“Countersunk” Screws assortment box



Contents: 1.800 screws, in plastic bulk storage chest 420 x 350 x 60 mm

Qty.	Description	Size	Drive	Art. no.
200	universal counter-sunk screws	3,5 x 20	PZ2	790015
200	universal counter-sunk screws	3,5 x 30	PZ2	790017
200	universal counter-sunk screws	3,5 x 40	PZ2	790079
200	universal counter-sunk screws	4,0 x 30	PZ2	790027
200	universal counter-sunk screws	4,0 x 40	PZ2	790029
200	universal counter-sunk screws	4,0 x 50	PZ2	790031
200	universal counter-sunk screws	4,5 x 40	PZ2	790041
100	universal counter-sunk screws	5,0 x 40	PZ2	790053
100	universal counter-sunk screws	5,0 x 50	PZ2	790054
100	universal counter-sunk screws	5,0 x 60	PZ2	790055
50	universal counter-sunk screws	6,0 x 60	PZ3	790064
50	universal counter-sunk screws	6,0 x 80	PZ3	790065
1 Bit-Box 17-pcs., incl. holder				102210



Art. no.	empty	Content	kg	PU	PrU
792806	220131	1.800-pcs	5,000	1	1

“Countersunk” Screws assortment box



Contents: 1.800 screws, in plastic bulk storage chest 420 x 350 x 60 mm

Qty.	Description	Size	Drive	Art. no.
200	universal counter-sunk screws	3,0 x 15	PZ2	790005
200	universal counter-sunk screws	3,0 x 25	PZ2	790006
200	universal counter-sunk screws	3,0 x 40	PZ2	790008
200	universal counter-sunk screws	4,0 x 30	PZ2	790027
200	universal counter-sunk screws	4,0 x 40	PZ2	790029
200	universal counter-sunk screws	4,0 x 50	PZ2	790031
200	universal counter-sunk screws	4,5 x 40	PZ2	790041
100	universal counter-sunk screws	5,0 x 40	PZ2	790053
100	universal counter-sunk screws	5,0 x 50	PZ2	790054
100	universal counter-sunk screws	5,0 x 60	PZ2	790055
50	universal counter-sunk screws	6,0 x 60	PZ3	790064
50	universal counter-sunk screws	6,0 x 80	PZ3	790065
1 Bit-Box 17-pcs., incl. holder				102210



Art. no.	empty	Content	kg	PU	PrU
792810	220131	1.800-pcs	5,000	1	1

“Mix Tx” Screws assortment box



Contents: 1.475 screws, in plastic bulk storage chest 420 x 350 x 60 mm

Qty.	Description	Size	Drive	Art. no.
200	TwinSpeed counter-sunk screws	2,9 x 15	Tx10	793005
200	TwinSpeed counter-sunk screws	2,9 x 30	Tx10	793007
200	TwinSpeed counter-sunk screws	2,9 x 40	Tx10	793008
200	TwinSpeed counter-sunk screws	4,2 x 35	Tx20	793040
100	TwinSpeed counter-sunk screws	4,2 x 50	Tx20	793043
100	TwinSpeed counter-sunk screws	4,8 x 50	Tx25	793054
50	TwinSpeed counter-sunk screws	6,3 x 80	Tx30	793065
200	TwinSpeed pan head screws	3,9 x 30	Tx15	793100
100	TwinSpeed pan head screws	3,9 x 40	Tx15	793102
50	TwinSpeed pan head screws	4,8 x 50	Tx25	793121
50	hexagonal wood screws	6 x 40		790210
25	hexagonal wood screws	6 x 80		790212



Art. no.	empty	Content	kg	PU	PrU
792816	220131	1.475-pcs	5,022	1	1

“Mix Tx plus” Screws assortment box



Contents: 1.475 screws, in plastic bulk storage chest 420 x 350 x 60 mm

Qty.	Description	Size	Drive	Art. no.
200	TwinSpeed counter-sunk screws	2,9 x 15	Tx10	793005
200	TwinSpeed counter-sunk screws	2,9 x 30	Tx10	793007
200	TwinSpeed counter-sunk screws	2,9 x 40	Tx10	793008
200	TwinSpeed counter-sunk screws	4,2 x 35	Tx20	793040
100	TwinSpeed counter-sunk screws	4,2 x 50	Tx20	793043
100	TwinSpeed counter-sunk screws	4,8 x 50	Tx25	793054
50	TwinSpeed counter-sunk screws	6,3 x 80	Tx30	793065
200	TwinSpeed pan head screws	3,9 x 30	Tx15	793100
100	TwinSpeed pan head screws	3,9 x 40	Tx15	793102
50	TwinSpeed pan head screws	4,8 x 50	Tx25	793121
50	hexagonal wood screws	6 x 40		790210
25	hexagonal wood screws	6 x 80		790212
1 Bit-Box 17-pcs., incl. holder				102210



Art. no.	empty	Content	kg	PU	PrU
792818	220131	1.475-pcs	5,022	1	1

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SysCon screws assortments

SysCon universal countersunk screws



Contents: 1650 universal countersunk screws

- 1 220370 ABS plastic box „SysCon S“
- 1 220375 Foam „SysCon“ 400 x 300 x 10 mm
- 1 220399 Assortment insert „SysCon“

Qty.	Art. no.	Description	Size	Drive
400	790015	Universal countersunk screws	3,5 x 20	PZ2
200	790027	Universal countersunk screws	4,0 x 30	PZ2
200	790029	Universal countersunk screws	4,0 x 40	PZ2
200	790031	Universal countersunk screws	4,0 x 50	PZ2
200	790041	Universal countersunk screws	4,5 x 40	PZ2
100	790053	Universal countersunk screws	5,0 x 40	PZ2
100	790054	Universal countersunk screws	5,0 x 50	PZ2
100	790055	Universal countersunk screws	5,0 x 60	PZ2
50	790064	Universal countersunk screws	6,0 x 60	PZ3
100	790065	Universal countersunk screws	6,0 x 80	PZ3

SysCon



Art. no.	empty	Content	kg	PU
220389	220370	1.650-pcs	7,000	1



2C	page	B	page	C	page
2C pliers set VDE, sheathed handles	166	Backpack „Basic VDE“	255	Cable unwinder	80
2C combination pliers DIN 5746	228	Backpack „Basic“	255	Carpenters' pencils	234
2C cross slotted screwdrivers Phillips	210, 211	Backpack „VDE Plus“	194	Carrying belts	258
2C cross slotted screwdrivers Pozidriv	210, 211	Backpack „VDE“	194	Casing drill	283
2C cross slotted screwdrivers Square	211	Backpack	255	Catch device made from zinc steel	75, 77
2C Electricians' screwdrivers	210, 211	Bag for storing	204	Centre bits with tungsten carbide tipped cutting edge	287
2C Engineers' screwdrivers	210, 211	Ball point allen keys	216, 217	Centre punch	240
2C exchangeable „Vario“ handle	162	Basic unit	46	Centre drills for 231998 / 231999	290
2C exchangeable „VarioTQ“ 1000 V handle	164	Battery Li-Ion	62	Chalk line roller	234
2C exchangeable „VarioTQ“ handle	213	Battery NiMH	62	Chalk	234
2C heavy duty side cutters	228	Battery powered crimping tool „SC-2“	51	Checking mirrors	215
2C long chain nose pliers	229	Battery powered cable cutter „AS12-52“	13	Chipboard screw countersunk „TwinSpeed“	298
2C long flat nose pliers	228	Battery powered cable cutter „AS6-32“	13	Chipboard screw pan head „TwinSpeed“	250
2C long round nose pliers	229	Battery powered cable cutter „AS6-85“	13	Circuit tester „Control“	175
2C pliers set	229	Battery powered cable cutter „SAS6-85“	13	Claw hammer	240, 241
2C screwdriver set	211	Battery powered crimping tool „SL-2“	52	Claw retrievers	215
2C screwdriver set Tx	211	Battery powered crimping tool „AC25-12“	56	Cleaning brushes Safety Line	190
2C screwdrivers Tx	210	Battery powered crimping tool „AC42-12“	57	Climping irons acc. to DIN 48 345	204
2C screwdrivers Tx with security pin	210	Battery powered crimping tool „AD300-6“	60	Combi, threading bit set, made of HSSG SGE-Bit	293
2C side cutters DIN 5749	228	Battery powered crimping tool „AD400-6“	61	Combi-Crimping pliers	28
2C socket wrenches	212	Battery powered crimping tool „AH-12“	58	Combination pliers VDE	165, 167, 169
2C socket wrenches set	212	Battery powered crimping tool „AH-6“	53	Combination scissors	5
2C VDE cross slotted screwdrivers Phillips	161	Battery powered crimping tool „AO-6“	54	Combination spanners	222
2C VDE cross slotted screwdrivers Pozidriv	161	Battery powered crimping tool „SD300-6“	60	Combination step drills/HSS	285
2C VDE cross slotted screwdrivers Square	161	Battery powered crimping tool „SD400-6“	61	Combined dowel and contact spanners	190
2C VDE electricians' screwdrivers	160	Battery powered crimping tool „SHs-6“	52	Complete assembly case	16
2C VDE screwdrivers set	161	Battery powered crimping tool „TC25-12“	56	Complete stocks, metric thread	292
2C VDE screwdrivers Tx	161	Battery powered crimping tool „TC42-12“	57	Compression joints	122, 125
2C VDE socket wrenches	161	Battery powered crimping tool „SH-6“	53	Cone drills/Aerial drills/HSS	286
2C VDE socket wrenches set	161	Battery powered wire cutter „AS6S32“	13	Connecting rod	45
2C water pump pliers	229	Battery powered wire cutter „AS6ST-20“	13	Connection shackle for probes	74
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		Butt connectors, made from pure nickel	126	Crimp insert for „Hirschmann“ contacts	32
		Butt connectors, standard series	117	Crimp insert for „Tyco“ contacts	32
		Butt connectors	94, 97	Crimp inserts for „Huber & Suhner“ contacts	32
		Butt-connector for high flexible conductors	120	Crimp inserts for „Multi-contact“ contacts	32
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220309	266	220583	178	230240	282	230466	284	230844	293	231282	294	231936	289
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220418	182	230050/CO	282	230370	283	230682	292	230926	284	231530	283	231998	290
220420	182	230050	282	230372	283	230683	292	230928	284	231532	283	231999	290
220422	182	230060/CO	282	230374	283	230689	288	230930/1	284	231534	283	232007	290
220424	182	230060	282	230376	283	230691	288	230932	284	231540	283	240002	294
220426	182	230064/CO	282	230378	283	230701	288	230934	284	231544	283	240005	294
220428	182	230064	282	230380	283	230702	288	230936	284	231546	283	240011	294
220430	182	230066/CO	282	230382	283	230704	288	230938	284	231700	283	240012	294
220432	182	230066	282	230395	284	230705	288	230940	284	231702	283	240018	294
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220436	182	230070	282	230397	284	230708	288	230944	284	231706	283	240022	294
220438	182	230080/CO	282	230398	284	230709	288	230946	284	231708	283	240024	294
220440	182	230080	282	230400	283	230711	288	230948	284	231710	283	240041	294
220450	186	230084/CO	282	230402	283	230714	288	230950	284	231712	283	240042	294
220452	186	230084	282	230404	283	230720	288	230952	284	231714	283	240044	294
220454	186	230090/CO	282	230406	283	230721	288	230954/1	284	231716	283	240046	294
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250094	150	250638	152	260370	94	260708	96	262062	141	262232	146	262542	138
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250102	150	250646	152	260374	94	260716	96	262069	141	262238	146	262547	138
250104	150	250648	152	260376	94	260718	96	262073	154	262240	146	262600/1	139
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250112	150	250656	153	260386	94	260726	96	262085	154	262245	146	262606	139
250114	150	250658	153	260388	94	260728	96	262086	154	262246	146	262608	139
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250118	150	250661	153	260392	94	260731	96	262088	154	262248	146	262610/1	139
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250122	151	250664	153	260396	94	260733	96	262090	154	262254	147	262612/1	139
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250160	151	260254	93	260424	95	260774	97	262108	139	262280	147	262638	139
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290010/90	117	290079	121	290424	123	290670	109	290834	119	290966	115	291134	112
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290020/90	117	290266	120	290452	123	290700	109	290864	119	290982/90	117	291350	118
290020	116	290268	120	290454	123	290701	109	290866	119	290982	115	291352	118
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290022	116	290276	120	290460	123	290707	109	290872	119	290986/90	117	291358	118
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290024/90	117	290280	120	290464	123	290710	109	290876	119	290988/90	117	291370	118
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Contact



Point of sales

HAUPA Shop in Shop Sales System

A well-stocked display of tools at the point of sale is the hallmark of every good electrical wholesaler and offers customers the full service they need.

Within this complete customer-focussed presentation concept, your clients will find a wide range of HAUPA quality tools and the materials to go with them. It includes tools from the „Around the cable“, „Working under tension“ and „Standard program“ ranges and offers the user a very high degree of flexibility.



Cupboards with lockable glass door. Perforated panel displays also available in 1.00m and 1.25 m width.
Dimensions: 2,20 m x 1,25 m x 40 cm. (The entire list of items available for display on the panels can be viewed on the internet or by mailing info@haupa.com).

HAUPA Sales promotion

On request, HAUPA also naturally supplies individual cabinets and wall displays fitted out with your own choice of tools.

Our different resenatation models offer possibilities for your sales area which are both interesting and variable.

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app



homepage



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This catalogue contains QR codes which ensure more transparent communication of additional information via video or similar media content.



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