

VDE tools



**VDE Cable cutters KL040160IS**

- High cutting performance on hard wires and soft wires
- Length: 160 mm



**VDE Heavy-duty lever side cutter KL044200IS**

- 18° angled head
- Inductive hardened precision cutting edges for superfine wires
- Cuts soft and medium-hard wires
- Length: 200 mm



**VDE Cable cutters KL010210IS**

- Stripping and cutting of copper and aluminum cables
- Adjustable joint
- Length: 210 mm



**VDE Combination pliers KL020180IS**

- Holds flat and round material, cuts hard and soft wires
- With combination ring spanner 11 - 17 mm (M8 - M10)



**VDE Telephone pliers, bent KL055205IS**

- Serrated jaws, 45° angled flat-round jaws
- With wire cutter
- Length: 205 mm



**VDE Screwdriver Slim Line PZ1/PZ2**

- For Pozidriv screws
- PZ1: KL120PZISLIM
- PZ2: KL120PZ2ISLIM



**VDE Screwdriver Slim Line Z1/Z2**

- For Plus/Minus screws
- For switchgear
- Z1: KL130PM1ISLIM
- Z2: KL130PM2ISLIM



**VDE Screwdriver set KL390IS, 6 pcs**

- Phillips: 80 x PH1 / 100 x PH2
- Slotted: 2.5 x 0.4 x 75 / 4.0 x 0.8 x 100 / 5.5 x 1.0 x 125 mm
- Single-pole voltage tester, 150 V - 250 V



**VDE Screwdriver set Slim Line KL390ISLIM, 5 pcs**

- Pozidriv Slim Line: 80 x PZ1 / 100 x PZ2
- Slotted Slim Line: 3.5 x 0.6 x 100 / 5.5 x 1.0 x 125 mm
- Single-pole voltage tester, 150 V - 250 V



**Klauke E-smart box KL301S, 13 pcs**

- Interchangeable IEC screwdriver blade set for all standard screws, with voltage tester GT-12A

Standard, wire stripping and stripping tools



**Engineers professional case KL905B15, 15 pcs**

- Technicians notebook/tool bag
- Equipped with VDE and standard tools
- Material: Hard-wearing nylon



**Socket head bit set 1/4" KL361, 28 pcs**

- Ratchet 1/4"
- 16 Bits, 1 Quick-change chuck
- Smart handle
- 2 Extensions 75 mm, 150 mm



**Automatic wire stripping tool K43/3**

- Self-adjustable cutting and stripping tool incl. cutter for fine stranded cable
- Spare stripping knife in handle
- Stripping range: 0.03 - 16 mm²



**Cable stripper K400**

- Exchangeable hooks, width 4.5 - 40 mm
- Stripping diameter max. 21/40 mm



**Electricians knife with straight blade with hooked blade KL745GK KL745HK**

- Precise, fast and safe stripping of all standard round cables from 4 - 28 mm dia

Testers and measuring instruments



**Contactless voltage tester GT-12A**

- With automatic self-test
- Voltage range: 50 - 1,000 V AC CAT IV / 1,000 V
- CAT-16: Voltage range: 5 - 1,000 V AC CAT IV / 1,000 V



**Bipolar voltage tester GT-85NE**

- LC display
- AC and DC voltage
- Rotary field testing, phase testing and continuity check, optical and acoustic
- Diode test
- CAT III 1,000 V, CAT IV 600 V



**Digital multimeter DM-200A**

- Automatic and manual range selection
- Backlit LC-display
- AC and DC test
- Temperature test, capacity
- CAT II 1,000 V, CAT III 600 V, CAT IV 300V



**Clamp-on multimeter CM-1560**

- True RMS actual effective value
- AmpTip™ provides increased accuracy
- Measuring category: CAT IV 600 V und CAT III 1,000 V
- Lifetime Warranty



**Cable length measuring device CLM-1000E**

- For determining the cable length
- Measuring range from 5 m - 30 km

Round punches



**Slug Buster punches SLUG-BUSTER®**

- Suitable for mild steel, plastic and aluminum up to 3.5 mm

Punch Size		Max. material-thickness mm (mild steel)	Complete unit
True dimension mm	Standard size Pg ISO		
12.5	7 12	1.5	50067273
15.2	9	2.0	50319892
16.2	16	2.0	50351770
18.6	11	2.0	50319906
20.4	13 20	2.0	50319914
22.5	16	2.0	50319620
25.4	25	2.0	50351788
28.3	21	3.0	50319639
28.3	21	2.0	50319930
30.5		2.0	50365088
30.5		3.0	50602462
32.5	32	3.0	50351796

Punch Size		Max. material-thickness mm (mild steel)	Complete unit
True dimension mm	Standard size Pg ISO		
34.6		3.0	50319647
37.0	29	3.0	50319957
40.5	40	3.0	50351800
43.2		3.0	50319655
47.0	36	3.0	50319965
49.6		3.0	50319663
50.8	50	3.0	50351818
54.0	42	3.0	50361716
60.0	48	3.0	50319981
61.5		3.0	50319671
64.0	63	3.0	50351826



**SPEED PUNCH™ punches**

- Up to 3x faster than conventional punching tools
- Simple operation and great time-saving due to speed lock system

Punch Size		Max. material-thickness mm (mild steel)	Complete unit
True dimension mm	Standard size Pg ISO		
16.2	16	3.5	52055431
20.4	20	3.5	52055432
22.5	16	3.5	52055433
25.4	25	3.5	52055434
32.5	32	3.5	52055435
40.5	40	3.5	52055436
50.8	50	3.5	52055437
64.0	63	3.5	52055438

Punch drivers



**Hydraulic punch driver Kwik Draw™ 7804E 50342916**

**Kwik Draw 90™ 7904E 50342991**

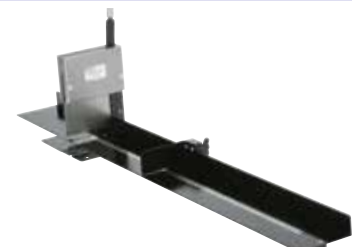
- Round punches up to ISO 63 (64 mm dia)
- Special shape punches up to max. 68 x 68 mm or 35 x 65 mm



**LS 50 FLEX Battery powered punch driver**

- Round punches 143.7 mm (ST37 3 mm / VA 2 mm)
- Special shape punches 104.8 x 104.8 mm (ST37 2 mm)
- 18 V/3.0 Ah Li-Ion battery
- Punching force: 60 kN

Special cutting tools and step bits



**Wiring duct cutter 50125700**

- Burr-free cutting lengths also for halogen-free cable channel
- Standard and halogen-free plastic profile
- Maintenance free



**Kwik Stepper Step bit set 50069900**

- Burr free drilling of steel sheets, pipes, non-ferrous metals, stainless steel and plastic
- Drilling range from 4 - 30 mm

Cable pulling technology



**Dura Spinner**

- Polyester fish tape included
- accessory kit and insertion aid
- Nearly unbreakable polyester tape

Dia	Length	
3.8 mm	20 m	52074600
3.8 mm	30 m	52074650

**Flexi Spinner**

- Polyester fish tape included
- accessory kit and insertion aid
- Sturdy housing

Dia	Length	
4.5 mm	20 m	52055389
4.5 mm	25 m	52055390
4.5 mm	30 m	52055391

Measuring instruments for medium and high voltage



**DVM-80UVK Universal Voltmeter/Phasing Set**

- Suitable for overhead and earth cable
- Digital meter reads in kilovolts
- Backlit display
- Accuracy is 1% of reading
- Peak hold



**HVA-2000 High Voltage Digital Ammeter**

- Large bright display
- Fast results
- Suitable for overhead and earth cables up to 7 cm in diameter
- Easy to use
- Stores the last 4 readings



**VW-20HFR V-Watch Personal Voltage Detector**

- Detection and warning of electric fields
- Alarm distance increases with the level of the voltage
- Warning distance at 4 kV AC is 2.13 m

Strong brands for your success:



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Best Of Klauke

Electrical connecting systems Crimping tools Cutting tools Holemaking tools Universal tools  
Hand tools Cable Pulling technology Testing and measuring instruments




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Verbindungen mit System  
The Power of Partnership

**Klauke**  
A Textron Company

## Electrical connecting systems - Connection material for copper conductor




**Tubular cable lugs Cu 6 - 400 mm<sup>2</sup>, R-series**

Standard type

- For stranded conductors e.g. DIN EN 60228 Class 2
- For pre-rounded sector shaped conductors
- Also available with inspection hole
- Material/Surface: copper acc. to EN 13600/tin plated
- Available with narrow flange for switchgear

IEC, UL, GL, DNV

mm <sup>2</sup>	M5	M6	M8	M10	M12	M14	M16	M20
6	1R5	1R6	1R8	1R10	1R12			
10	2R5	2R6	2R8	2R10	2R12			
16	3R5	3R6	3R8	3R10	3R12			
25	4R5	4R6	4R8	4R10	4R12	4R14		
35		5R6	5R8	5R10	5R12	5R14	5R16	
50		6R6	6R8	6R10	6R12	6R14	6R16	6R20
70		7R6	7R8	7R10	7R12	7R14	7R16	7R20
95			8R8	8R10	8R12	8R14	8R16	8R20
120			9R8	9R10	9R12	9R14	9R16	9R20
150			10R8	10R10	10R12	10R14	10R16	10R20
185				11R10	11R12	11R14	11R16	11R20
240				12R10	12R12	12R14	12R16	12R20
300					13R12	13R14	13R16	13R20
400					14R12	14R14	14R16	14R20




**Butt connectors Cu 0.75 - 400 mm<sup>2</sup>, R-series**

Standard type

- For stranded conductors e.g. DIN EN 60228 Class 2
- Annealed material optimizes material and crimping characteristics
- Material/Surface: copper acc. to EN 13600/tin plated

IEC, UL, GL, DNV

mm <sup>2</sup>	M5	M6	M8	M10	M12	M14	M16	M20
0.75	17R							
1.5	18R	10	22R	70	27R			240 32R
2.5	19R	16	23R	95	28R			300 33R
4	20R	25	24R	120	29R			400 34R
6	21R	35	25R	150	30R			
		50	26R	185	31R			




**Butt connectors Cu 1.5 - 50 mm<sup>2</sup>, Solid conductor**

- For solid conductor, e.g. DIN EN 60228 Class 1
- Material/Surface: copper acc. to EN 13600/tin plated
- Also available as a connector

IEC, UL

mm <sup>2</sup>	M5	M6	M8	M10	M12	M14	M16	M20
1.5 - 2.5	SV1525	6	SV6	16	SV16	35	SV35	
4	SV4	10	SV10	25	SV25	50	SV50	

## Electrical connecting systems - Connection material for aluminum conductor




**Compression cable lugs Al acc. to 46329 16 - 500 mm<sup>2</sup>**

- For non-tension connections of Al-cables acc. to DIN EN 60228 and Al overhead lines acc. to DIN EN 50182
- Material/Surface: E-Al/bright
- Also available with dimensions acc. to DIN
- Tinned version also available

IEC, UL

mm <sup>2</sup> / r/m / sm*	mm <sup>2</sup> / se*	M6	M8	M10	M12	M16	M20	
16	25		263R8	263R10				
25	35		264R8	264R10	264R12			
35	50		265R8	265R10	265R12			
50	70		266R8	266R10	266R12			
70	95		267R8	267R10	267R12			
95	120			268R10	268R12	268R16		
120	150			269R10	269R12	269R16		
150	185			270R10	270R12	270R16	270R20	
185	240			271R10	271R12	271R16	271R20	
240	300			272R10	272R12	272R16	272R20	
300	--				273R12	273R16	273R20	
400	--					274R12	274R16	274R20
500	--					275R12	275R16	275R20




**Tubular cable lugs Cu 10 - 300 mm<sup>2</sup>, F-series**

- For fine strand conductors e.g. DIN EN 60228 Class 5 and 6
- Also available with inspection hole
- Material/Surface: copper acc. to EN 13600/tin plated
- Also available as butt connector

UL

mm <sup>2</sup>	M5	M6	M8	M10	M12	M14	M16	M20
10	702F5	702F6	702F8	702F10	702F12			
16	703F5	703F6	703F8	703F10	703F12			
25	704F5	704F6	704F8	704F10	704F12			
35		705F6	705F8	705F10	705F12	705F14		
50		706F6	706F8	706F10	706F12	706F14	706F16	
70			707F8	707F10	707F12	707F14	707F16	
95			708F8	708F10	708F12	708F14	708F16	
120				709F10	709F12	709F14	709F16	709F20
150				710F10	710F12	710F14	710F16	710F20
185					711F12	711F14	711F16	711F20
240					712F12	712F14	712F16	712F20
300					713F12	713F14	713F16	713F20




**Compression cable lugs Cu acc. to DIN 46235 6 - 400 mm<sup>2</sup>**

- For solid, multi, fine and super fine round conductors, e.g. acc. to DIN EN 60228 Class 1, 2, 5 and 6
- Also for pre-rounded multi-stranded sector shaped conductors
- Clear tool assignment by code number
- Material/Surface: copper acc. to EN 13600/tin plated

DIN, IEC, UL, DNV

mm <sup>2</sup>	M5	M6	M8	M10	M12	M14	M16	M20
6	101R5	101R6	101R8					
10	102R5	102R6	102R8					
16		103R6	103R8	103R10	103R12			
25		104R6	104R8	104R10	104R12			
35		105R6	105R8	105R10	105R12	105R14		
50			106R8	106R10	106R12	106R14	106R16	
70			107R8	107R10	107R12	107R14	107R16	
95			108R8	108R10	108R12	108R14	108R16	
120				109R10	109R12	109R14	109R16	109R20
150				110R10	110R12	110R14	110R16	110R20
185				111R10	111R12	111R14	111R16	111R20
240					112R12	112R14	112R16	112R20
300					113R14	113R16	113R18	113R20
400						114R14	114R16	114R20
500							115R16	115R20
625							116R16	116R20
800							117R16	117R20
1000							118R16	118R20



**Compression cable lugs Al/Cu 16 - 300 mm<sup>2</sup>**

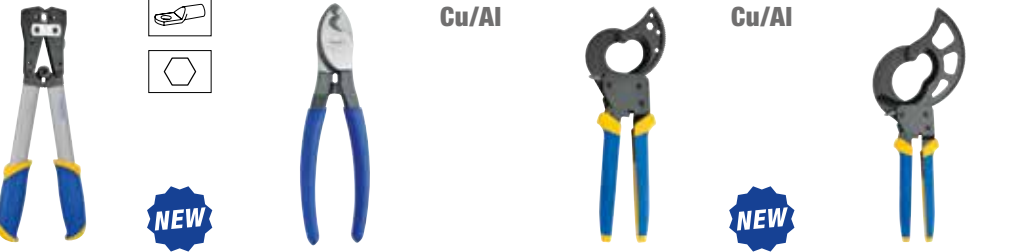
- Dimensions acc. to DIN 46329
- For non-tension connections of Al-cables acc. to DIN EN 60228 and Al overhead lines acc. to DIN EN 50182
- Material/Surface: E-Al, Copper acc. to EN 13600/bright
- For screwing non-tension aluminum connections using Cu-washers in humid areas

AL/CU

mm <sup>2</sup> / r/m / sm*	mm <sup>2</sup> / se*	M8	M10	M12	M16	M20	
16	25	363R8	363R10				
25	35	364R8	364R10	364R12			
35	50	365R8	365R10	365R12			
50	70	366R8	366R10	366R12			
70	95		367R10	367R12			
95	120		368R10	368R12	368R16		
120	150			369R12	369R16		
150	185			370R12	370R16	370R20	
185	240			371R10	371R12	371R16	371R20
240	300			372R10	372R12	372R16	372R20
300	--				373R12	373R16	373R20
400	--					374R12	

\* r/m = round multi-stranded, sm = sector stranded, se = sector solid

## Crimping and cutting tools



**K05 K06 K09** 6 - 50 mm<sup>2</sup> / 16 - 95 mm<sup>2</sup> / 35 - 150 mm<sup>2</sup>

- Synchronized profile dies adjustment
- For tubular cable lugs and connectors standard type, acc. to DIN and "blue connection"

**K118** max. dia 12 mm

- For solid, stranded, fine- and super fine stranded conductors, DIN EN 60228 cl. 1, 2, 5 and 6
- For fine and super fine conductors, Class 5 up to 50 mm<sup>2</sup>
- High cutting performance by specially designed cutting blades

**K106/1** max. Ø 26 mm

- Lightweight design with great cutting performance
- Effortless working thanks to 2-stage ratchet system

**K106/2** max. dia 62 mm

- 2-stage ratchet system
- Lightweight design with high cutting performance
- Also for fine stranded conductors

**Hand-operated cutting tools for Cu and Al cable**

## Klauke Micro



**EK50ML** 0.14 - 50 mm<sup>2</sup>

- For interchangeable dies, series 50
- One-lever operation
- Automatic retraction
- Very low weight (0.96 kg)
- Crimping force: 15 kN

K50 SERIE, PowerSense

## Battery powered crimping tools (also available with Makita battery)



**EK354** 6 - 150 mm<sup>2</sup>

- For crimping dies series 4
- Slim crimping head
- Automatic retraction
- Blue tooth for readout of data
- 18 V/2.0 Ah Li-Ion battery
- Crimping force: 35 kN

**EK505** 6 - 240 mm<sup>2</sup>

- For crimping dies series 5
- Intelligent Pressing System „IPS“
- Automatic retraction
- Display for tool data
- 18 V/2.0 Ah Li-Ion battery
- Crimping force: 50 kN

**EK6022** 6 - 300 mm<sup>2</sup>

- For crimping dies series 22
- Two stage hydraulics
- Intelligent Pressing System „IPS“
- Display for tool data
- 18 V/5 Ah Li-Ion battery
- Crimping force: 60 kN

**EK12042** 10 - 400 mm<sup>2</sup>

- For crimping dies series 13
- C-head with 42 mm opening width
- Intelligent Pressing System „IPS“
- Automatic retraction stop (ARS)
- 18 V/5 Ah Li-Ion battery
- Crimping force: 120 kN, wide crimping

**EKM60ID** 240 mm<sup>2</sup>

- With 2-stage telescopic cylinder
- No dies required
- Intelligent Pressing System „IPS“
- 18 V/2.0 Ah Li-Ion battery
- Crimping force: 30-60 kN

## Battery powered cutting tools (also available with Makita battery)



**ESM 50** max. Ø 50 mm

- For cutting copper and aluminum cables (even fine stranded conductors)
- 18 V/2.0 Ah, Li-Ion battery
- Cutting force: 38 kN

**ESGM45** max. dia 45 mm

- For cutting Al/St conductors (ACSR)
- 18 V/2.0 Ah, Li-Ion battery
- Cutting force: 70 kN

**ES65** max. dia 65 mm

- Cuts light steel armoured copper and aluminum cables (depending on type of cable), suitable for fine stranded cables
- Innovative opening mechanism
- 18 V/5 Ah Li-Ion battery
- Cutting force: 40 kN

**ESG85** max. dia 85 mm

- Cuts light steel armoured copper and aluminum cables (depending on type of cable)
- Cutting head and bolt interlock for highest safety for the operator
- 18 V/5 Ah Li-Ion battery
- Cutting force: 60 kN

**EK60UNV**

- One hand for crimping, cutting and punching
- Manual retraction stop with „teach in“ (MRS+) for positioning control in case of multiple crimpings
- 18 V/5 Ah Li-Ion battery

## Crimping and cutting heads, safety cutting tool, pumps



**PK25/2** 16 - 625 mm<sup>2</sup>

- Hydraulic crimping head
- For dies acc. to DIN 48083 sheet 3, series 25
- Crimping force: 250 kN
- For connecting to hydraulic drive unit with 700 bar operating pressure

**SDG105** max. dia 105 mm

- Hydraulic cutting head
- Cuts armoured copper and aluminum cables
- Cutting force: 120 kN
- For connecting to hydraulic drive unit with 700 bar operating pressure

**PK1000**

- Single-acting crimping head for connecting pumps
- For interchangeable dies, Nickel-plated version
- Quick coupling
- Operation pressure: 700 bar


**ASSG120SL** max. dia 120 mm

- BG-approved safety cutting tool
- Various head sizes (open or guillotine shape) up to 120 mm
- Incl. 2x 18 V/5 Ah Li-Ion batteries

**AHP700L drive unit**

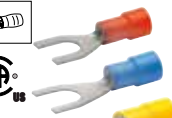
- For crimping, cutting and punching operations
- Intelligent Pressing System „IPS“
- Multifunction LED for data communication to PC
- 2x 18 V/3.0 Ah Li-Ion battery
- Operation pressure: max. 700 bar

## Insulated cable connections and cable end-sleeves




**Insulated solderless terminals 0.5 - 6 mm<sup>2</sup>**

mm <sup>2</sup>	M3	M3.5	M4	M5	M6	M8
0.5 - 1.0	6203	62035	6204	6205	6206	6208
1.5 - 2.5	6303	63035	6304	6305	6306	6308
4 - 6			6504	6505	6506	6508




**Insulated solderless terminals fork type 0.5 - 6 mm<sup>2</sup>**

mm <sup>2</sup>	M3.5	M4	M5	M6	M8
0.5 - 1.0	620C35	620C4	620C5	620C6	
1.5 - 2.5	630C35	630C4	630C5	630C6	
4 - 6		650C4	650C5	650C6	650C8




**Insulated receptacles 0.5 - 6 mm<sup>2</sup>**

mm <sup>2</sup>	2.8 x 0.5	2.8 x 0.8	4.8 x 0.5	4.8 x 0.8	6.3 x 0.8	7.7 x 0.5
0.5 - 1.0	8201	8201A	8202	8203	720	7208
1.5 - 2.5	8301	8301A	8302	8303	730	7308
4 - 6				8503	750	



**Insulated tabs 0.5 - 6 mm<sup>2</sup>**

mm <sup>2</sup>	0.5 - 1.0	1.5 - 2.5	4 - 6
2.8 x 0.5	8201C		
2.8 x 0.8	8201B		
4.8 x 0.5	8202B	8302B	8502B
4.8 x 0.8	8203B	8303B	8503B
6.3 x 0.8	820	830	850



**Insulated cable end-sleeves 0.5 - 50 mm<sup>2</sup> acc. to DIN 46228 part 4**

mm <sup>2</sup>	L	0.5 - 1.0	1.5 - 2.5	4 - 6
0.5	12	4696		
	14	4698		
	16	47010		
0.75	14	4718		
	16	47110		
1	14	4728		
	16	47210</		