

Klauke



KLAUKE CATALOGUE 2021/2022

Electrical connection systems, Crimping and cutting tools, Hydraulic safety tools, Punching tools, Hand tools, Universal tools, Cable-pulling technology



WORLDWIDE DISTRIBUTION AND SERVICE NETWORK



**Your contact to Klauke:
Representatives worldwide**

see page i-37

MORE THAN 135 YEARS OF EXPERIENCE



**MADE IN GERMANY
SINCE 1879**



OUR COMPANY CERTIFICATES



ISO 9001:2015
Quality management system

ISO 14001:2015
Environmental management system

IATF 16949:2016
Quality standard for the automotive industry

**ALWAYS
THE BEST
TOOL
FOR YOUR
NEEDS.**



**Electrical
connection systems**



Crimping



Cutting



Hydraulic safety tools



Punching



Universal tools



Pumps



Hand tools



**Cable-pulling
technology**

**Technical Appendix
Alphabetical Index
Alpha Numerical Index**

OUR FIELDS OF EXPERTISE FIVE SECTORS, ONE QUALITY

We take your needs seriously. For us, “Made by Klauke” means that all products are produced to the highest quality.

ELECTRICAL DISTRIBUTION - STRONG PARTNER WORLDWIDE



Klauke and Greenlee are your strong team - innovative, reliable and cost-effective. Together they form a connection that has been established for professional service providers worldwide in the energy supply and panel building industries.

CUSTOMIZED TOOLS - IMPROVING FOR THE FUTURE



We are market leaders: Our battery-powered hydraulic tools for the plumbing, heating and ventilation industries are at the forefront of the crimped connections sector. But that's not enough for us: In the Customized Tools sector, our tool experts together with our customers are always developing new prototypes, no matter whether for the cutting, crimping or punching segment. We support you through the development process to the finished product including the After Sales service. We are at your service.

AUTOMOTIVE CONNECTOR SOLUTIONS - KNOW-HOW FOR EXTRAORDINARY SOLUTIONS



Decades of experience go into the development and manufacture of our products for the automobile sector. From standard to custom and non-standard cable lugs - our solutions are used in any onboard systems.

ASSEMBLY SOLUTIONS - SPECIAL TYPE OF QUALITY



We are at our customers' service. Klauke offers highly-flexible solutions for your specific requirements for small production runs in the industrial commodity sector. This includes punched parts, wiring harnesses and pre-assembled cables and connectors. For your custom products, we rely on our in-house development and production expertise. Customers from sectors such as automotive, heating, air-conditioning, white goods, renewable energies or e-mobility rely on our quality.

CUSTOMIZED TOOLS - MATCHED SPECIFICALLY TO YOUR REQUIREMENTS



Klauke is a specialist for top-quality, hydraulic tools. Innovation has always taken top priority. We continuously develop new products in collaboration with our customers. We advise, develop and manufacture. Product design and fabrication are rounded out by the development and manufacture of matching processing tools. Perfectly adapted to the customer's manufacturing process and to meeting the exacting requirements of a quality management system. The proprietary CAD design allows customised solutions to be developed to the highest possible level and brought to production maturity.

KLAUKE AFTER SALES SERVICE - PERFECTLY TAILORED FOR YOUR DAY-TO-DAY WORK

Information exchange and close cooperation are an important Klauke quality feature, which is key to our customers' success. We look at the initial requirements through product development to find the best solution together. The best solution for us, though, does not end when the product is delivered, but continues with advice and service support.

KLAUKE HOTLINE

HOTLINE:
0800 4 68 55 28



Your direct link to our tool service offers:

<https://www.klauke.com/ee/en/inspecting-and-servicing-tools>



KLAUKE SERVICE OFFERS



- Video support with live demonstration of your application and the product
- Your questions are answered immediately after prior agreement
- Service van for on-site service

KLAUKE GUARANTEE

- Worldwide repair and maintenance service through over 60 authorised Service Centers (Klauke ASC).
- Full maintenance service with annual inspection and maintenance at fixed prices





Klauke **ASC**
Authorised Service Center

THE BEST CONNECTION.

Thanks to the Klauke system, you can be sure that your connection will withstand any load. We find the right connector for every conductor.





Electrical connection systems

Copper tubular cable lugs and connectors	10	Aluminium/copper compression cable lugs and connectors	106
Tubular cable lugs	12	Aluminium/copper compression cable lugs	108
Tubular cable lugs for switchgear connections	16	Aluminium/copper compression joints	111
Angle tubular cable lugs	17	Bi-metallic washer	114
Connectors	21	Tool application chart	115
Insulated tubular cable lugs and connectors	25		
Tubular cable lugs and connectors, blue connection®	28	Clamps and screw connectors	116
Tubular cable lugs and compression joints for solid conductors	30	Punched cable lugs - copper	118
Tubular cable lugs and connectors for fine stranded conductors	33	Screw connectors with soldering hole - brass	119
Tool application chart	38	Parallel groove clamps - copper	120
		C- and H-shaped clamps - copper	121
		Screw connector for shielded copper wires	123
Tubular cable lugs and connectors - nickel, stainless steel	46	Screw connectors for street lighting - brass	123
Tubular cable lugs and connectors - stainless steel	48	Screw connectors, high-resistant aluminium alloy	124
Tubular cable lugs and connectors - nickel	50	Compact tab connectors, high resistant aluminium alloy	129
Tool application chart	53	Tool application chart	131
Copper compression cable lugs and connectors acc. to DIN	54	Cable end-sleeves	134
Compression cable lugs acc. to DIN 46235	56	Cable end-sleeves DIN 46228, part 1 and part 2	136
Angle compression cable lugs	58	Insulated cable-end sleeves acc. to DIN 46228, part 4 and similar versions	139
Compression cable lugs, special type	62	Insulated cable end-sleeves for short circuit resistant conductors	144
Compression joints acc. to DIN 46267, part 1 and similar versions	64	Insulated twin cable-end sleeves	145
Tool application chart	69	Insulated cable-end sleeves, strips and tapes	146
		Tool application chart	148
Copper terminals, connectors and pin terminals acc. to DIN	72	Cable connections, insulated and non insulated	152
Solderless terminals acc. to DIN 46234	74	Insulated terminals	154
Insulated solderless terminals	76	Non insulated flat connectors	165
Solderless terminals, fork and pin type	78	Flexible connectors	170
Insulated solderless terminals for meter connections	80	Tool application chart	173
Solderless connectors acc. to DIN 46341, part 1	80		
Tool application chart	82	Assortments	176
		Pocket boxes with cable end-sleeves	178
Sleeves for compacted conductors and sector-shaped conductors - copper	86	Pocket boxes with insulated cable end-sleeves	179
		Assortment boxes with cable end-sleeves	183
Aluminium compression cable lugs and connectors acc. to DIN	92	Assortment boxes with insulated cable-end sleeves	184
Aluminium compression cable lugs acc. to DIN 46329 and similar versions	94	Assortment boxes with tubular and compression cable lugs	187
Aluminium compression joints acc. to DIN 46267 part 2 and similar versions	97	Assortment boxes with insulated terminals	189
Aluminium reduction compression joints	99	Steel carrying cases / bags	191
Aluminium compression joints, full tension	101		
Aluminium compression cable lugs and connectors for Al/St cables DIN EN 50182	102	L-BOXes	196
Tool application chart	103		



THE CLASSIC - COPPER TUBULAR CABLE LUGS

Not every product becomes a classic at Klauke. Only the best ones. Tubular cable lugs made from high-quality electrolytic copper have been part of the Klauke standard range since 1960. The hallmarks: We handle all phases, from development to production. We monitor each and every step. The result: The certified classic remains - in every version.



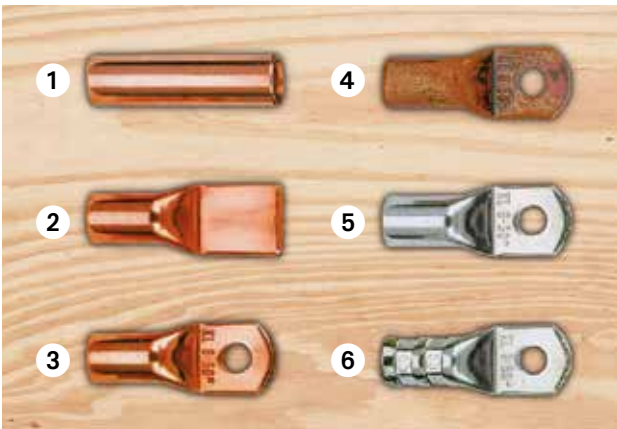
In brief

- ▶ **Everything from a single source, from development to production**
- ▶ **Best electrical conductivity thanks to electrolytic copper**
- ▶ **Available for all cross sections and in many special versions**
- ▶ **Tested to international standards**

► The system - Klauke connectors

At Klauke all products are matched to one another and we manufacture in our own factories. We think in your work steps – and produce everything systematically. Every cable lug, every tool for the perfect connection.

- Full flexibility through solutions for all conductor classes to DIN EN 60228
- For cables with compacted round conductors, cables with sector-shaped conductors and to suit individual requirements
- A single source - for everything from the cable lug to the tool for professional electrical installations



- | | |
|------------------------|----------------------|
| 1 Source material | 4 Annealing |
| 2 Folding and crimping | 5 Tinned end product |
| 3 Punching | 6 After crimping |

► The preparation - Traditional quality

The best material is the basis for quality products. For our classics we use - as for all Klauke products - exclusively high-quality material from certified suppliers. You get all our cable lugs with the optimum features. To achieve this, we manufacture using a special annealing process.

- Optimum conductivity, high loading capacity and increased safety thanks to high-quality materials
- Outstanding processing properties

► The proof - independent quality tests

Klauke aspires to its own high standard. We have this verified by several independent inspection authorities and have put ourselves through the tough IEC tests - with success.

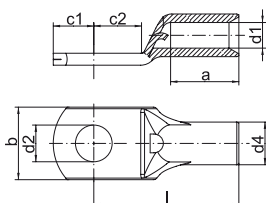
- IEC (International Electric Commission): The IEC is an advisory board for standards in the electrical engineering and electronics sector. The certifications encompass all areas of electrical engineering that have to meet especially high demands.
- UL (Underwriters Laboratories): UL is an independent organisation that examines and certifies products for safety. The certification is particularly important on the American market.

- DNV (Det Norske Veritas) and GL (Germanischer Lloyd): DNV and GL have now merged to form the world's largest consulting company for onshore and offshore systems.





Tubular cable lugs, Cu, standard type



- ▶ Cable lug for fine-stranded round conductors, e.g. to DIN EN 60228 Cl. 5
- ▶ Simple processing thanks to inspection hole for monitoring full conductor insertion



Characteristics

- Annealed material optimises material and crimping properties
- Simple and safe connection due to flat contact surfaces and internal chamfer
- Item identification on cable lug



Material

- Copper (EN13600)

Surface

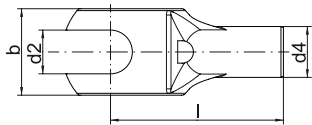
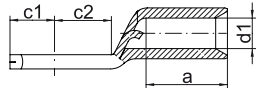
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 38

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
0.75	M3	91R3	1.3	6	6.0	3,2	2.8	3.25	4.0	12	0.060	100
	M4	91R4	1.3	6	6.5	4,3	2.8	4.00	5.0	13	0.060	100
	M5	91R5	1.3	6	7.5	5,3	2.8	4.75	5.5	14	0.060	100
1.5	M3	92R3	1.8	6	6.5	3,2	3.3	3.25	4.0	12	0.080	100
	M4	92R4	1.8	6	6.5	4,3	3.3	4.00	5.0	13	0.080	100
	M5	92R5	1.8	6	7.5	5,3	3.3	4.75	5.5	14	0.080	100
	M6	92R6	1.8	6	9.0	6,4	3.3	6.50	6.5	16	0.090	100
2.5	M3	93R3	2.3	6	7.5	3,2	4.2	3.25	4.0	12	0.120	100
	M4	93R4	2.3	6	7.5	4,3	4.2	4.00	5.0	13	0.120	100
	M5	93R5	2.3	6	8.5	5,3	4.2	4.75	5.5	14	0.130	100
	M6	93R6	2.3	6	9.5	6,5	4.2	6.50	6.5	16	0.150	100
	M8	93R8	2.3	6	13.0	8,4	4.2	7.75	9.5	20	0.180	100
4	M4	94R4	3.0	8	8.5	4,3	5.0	4.75	5.5	17	0.210	100
	M5	94R5	3.0	8	9.0	5,3	5.0	4.75	6.0	17	0.213	100
	M6	94R6	3.0	8	10.0	6,4	5.0	6.50	6.5	19	0.220	100
	M8	94R8	3.0	8	13.0	8,4	5.0	8.50	9.5	22	0.280	100
6	M4	95R4	4.0	9	9.5	4,3	6.0	5.00	5.5	18	0.290	100
	M5	95R5	4.0	9	9.5	5,3	6.0	6.00	6.0	19	0.300	100
	M6	95R6	4.0	9	10.0	6,4	6.0	7.00	6.5	19	0.300	100
	M8	95R8	4.0	9	14.0	8,5	6.0	8.50	9.5	22	0.320	100

Tubular cable lugs, Cu, fork type



- ▶ Cable lug to 6 mm² for fine-stranded round conductors Cl. 5, 10 mm² and 16 mm² for multi-stranded round conductors Cl. 2, e.g. to DIN EN 60228
- ▶ Simple fork-type mounting
- ▶ Simple processing thanks to inspection hole to check the inserted conductor

Characteristics

- Annealed material optimises material and crimping properties
- Simple and safe connection due to flat contact surfaces and internal chamfer
- Item identification on cable lug

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

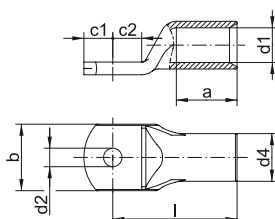
Technical instructions

- Tool: see page 38

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
0.75	M3	91C3	1.3	6	6.0	3,2	2.8	3.25	4.0	12	0.06	100
	M4	91C4	1.3	6	6.5	4,3	2.8	4.00	5.0	13	0.05	100
	M5	91C5	1.3	6	7.5	5,3	2.8	4.75	5.5	14	0.06	100
1.5	M3	92C3	1.8	6	6.5	3,2	3.3	3.25	4.0	12	0.07	100
	M4	92C4	1.8	6	6.5	4,3	3.3	4.00	5.0	13,5	0.07	100
	M5	92C5	1.8	6	7.5	5,3	3.3	4.75	5.5	14	0.07	100
	M6	92C6	1.8	6	9.0	6,4	3.3	6.50	6.5	16	0.08	100
2.5	M4	93C4	2.3	6	7.5	4,3	4.2	4.00	5.0	13	0.11	100
	M5	93C5	2.3	6	8.5	5,3	4.2	4.75	5.5	14	0.12	100
	M6	93C6	2.3	6	9.5	6,4	4.2	6.50	6.5	16	0.10	100
4	M4	94C4	3.0	8	8.5	4,3	5.0	4.75	5.5	17	0.19	100
	M5	94C5	3.0	8	9.0	5,3	5.0	4.75	6.0	17	0.19	100
	M6	94C6	3.0	8	10.0	6,4	5.0	6.50	6.5	19	0.21	100
	M8	94C8	3.0	8	13.0	8,5	5.0	8.50	9.5	22	0.24	100
6	M4	95C4	4.0	9	9.5	4,3	6.0	5.00	5.5	18	0.27	100
	M5	95C5	4.0	9	9.5	5,3	6.0	6.00	6.0	19	0.32	100
	M6	95C6	4.0	9	10.0	6,4	6.0	7.00	6.5	19	0.27	100
	M8	95C8	4.0	9	14.0	8,5	6.0	8.50	9.0	22	0.31	100
10	M5	96C5	4.5	10	12.0	5,3	7.0	6.50	7.5	22	0.45	100
	M6	96C6	4.5	10	12.0	6,4	7.0	6.50	7.5	22	0.41	100
	M8	96C8	4.5	10	15.0	8,4	7.0	10.00	10.0	25	0.52	100
16	M5	97C5	5.5	13	12.0	5,3	8.5	5.50	6.5	26	0.81	100
	M6	97C6	5.5	13	12.0	6,4	8.5	6.25	7.5	27	0.81	100
	M8	97C8	5.5	13	15.0	8,4	8.5	8.50	9.5	29	0.90	100



Tubular cable lugs, Cu, standard type



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ Ideal cable lug for control cabinet construction
- ▶ In combination with EKM 60 ID suitable for fine-stranded conductors

Characteristics

- Annealed material optimises material and crimping properties
- To DIN EN 61373 class 1B vibration-tested
- Simple and safe connection due to flat contact surfaces and internal chamfer
- Item identification on cable lug

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 38
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“

Additional information

- Also available as featured article with inspection hole, part number appendix „MS“

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
6	M5	1R5	3.5	9	10	5.3	6.5	6.50	7.5	21	0.50	100
	M6	1R6	3.5	9	12	6.4	6.5	6.50	7.5	21	0.47	100
	M8	1R8	3.5	9	15	8.4	6.5	10.00	10.0	23	0.54	100
	M10	1R10	3.5	9	17	10.5	6.5	12.00	12.0	25	0.59	100
	M12	1R12	3.5	9	19	13.0	6.5	13.00	13.0	28	0.63	100
10	M5	2R5	4.5	10	12	5.3	7.0	6.50	7.5	22	0.50	100
	M6	2R6	4.5	10	12	6.4	7.0	6.50	7.5	22	0.49	100
	M8	2R8	4.5	10	15	8.4	7.0	10.00	10.0	25	0.58	100
	M10	2R10	4.5	10	17	10.5	7.0	12.00	12.0	27	0.62	100
	M12	2R12	4.5	10	19	13.0	7.0	13.00	13.0	29	0.64	100
16	M5	3R5	5.5	13	12	5.5	8.5	5.50	6.5	26	0.84	100
	M6	3R6	5.5	13	12	6.4	8.5	6.25	7.5	27	0.86	100
	M8	3R8	5.5	13	15	8.3	8.5	8.50	9.5	29	0.93	100
	M10	3R10	5.5	13	17	10.5	8.5	10.50	11.5	31	0.99	100
	M12	3R12	5.5	13	19	13.0	8.5	12.00	13.0	33	1.02	100
25	M5	4R5	7.0	15	14	5.3	10.0	7.50	7.5	30	1.22	25
	M6	4R6	7.0	15	14	5.3	10.0	7.50	7.5	30	1.20	100
	M8	4R8	7.0	15	16	8.4	10.0	10.00	10.0	32	1.31	100
	M10	4R10	7.0	15	18	10.5	10.0	12.00	12.0	34	1.57	100
	M12	4R12	7.0	15	19	13.0	10.0	13.00	13.0	35	1.39	25
	M14	4R14	7.0	15	21	15.0	10.0	14.50	14.5	38	1.49	25
35	M6	5R6	8.5	17	17	6.4	12.0	7.50	7.5	32	1.85	100
	M8	5R8	8.5	17	17	8.4	12.0	10.00	10.0	34	2.00	100
	M10	5R10	8.5	17	19	10.5	12.0	12.00	12.0	37	2.13	100
	M12	5R12	8.5	17	21	13.0	12.0	13.00	13.0	38	2.12	100
	M14	5R14	8.5	17	21	15.0	12.0	14.50	14.5	40	2.18	25
	M16	5R16	8.5	17	26	17.0	12.0	16.00	16.0	42	2.24	25

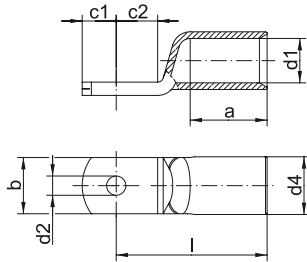
See next page

Tubular cable lugs, Cu, standard type

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
50	M6	6R6	10.0	19	20	6.4	14.0	10.00	10.0	37	3.00	25
	M8	6R8	10.0	19	20	8.4	14.0	10.00	10.0	37	2.93	50
	M10	6R10	10.0	19	20	10.5	14.0	12.00	12.0	39	3.08	50
	M12	6R12	10.0	19	23	13.0	14.0	13.00	13.0	43	3.23	50
	M14	6R14	10.0	19	23	15.0	14.0	14.50	14.5	45	3.32	25
	M16	6R16	10.0	19	28	17.0	14.0	16.00	16.0	46	3.38	25
	M20	6R20	10.0	19	30	21.0	14.0	19.00	19.0	48	3.46	25
70	M6	7R6	12.0	21	23	6.4	16.5	10.00	10.0	43	4.49	25
	M8	7R8	12.0	21	23	8.5	16.5	10.00	10.0	43	4.38	50
	M10	7R10	12.0	21	23	10.5	16.5	12.00	12.0	44	4.54	50
	M12	7R12	12.0	21	23	13.0	16.5	13.00	13.0	46	4.63	50
	M14	7R14	12.0	21	23	15.0	16.5	14.50	14.5	48	4.76	25
	M16	7R16	12.0	21	28	17.0	16.5	16.00	16.0	50	4.24	25
	M20	7R20	12.0	21	30	21.0	16.5	19.00	19.0	53	5.09	25
95	M8	8R8	13.5	25	26	8.4	18.0	12.00	12.0	48	5.44	25
	M10	8R10	13.5	25	26	10.5	18.0	12.00	12.0	48	5.40	50
	M12	8R12	13.5	25	26	13.0	18.0	13.00	13.0	49	5.56	50
	M14	8R14	13.5	25	26	15.0	18.0	14.50	14.5	51	5.62	25
	M16	8R16	13.5	25	28	17.0	18.0	16.00	16.0	54	5.82	50
	M20	8R20	13.5	25	36	21.0	18.0	22.00	22.0	60	6.71	25
120	M8	9R8	15.0	26	28	8.4	19.5	14.00	14.0	51	6.72	25
	M10	9R10	15.0	26	28	10.5	19.5	14.00	14.0	51	6.57	50
	M12	9R12	15.0	26	28	13.0	19.5	14.00	14.0	51	6.38	50
	M14	9R14	15.0	26	28	15.0	19.5	15.00	15.0	52	6.45	25
	M16	9R16	15.0	26	30	17.0	19.5	16.00	16.0	54	6.51	50
150	M20	9R20	15.0	26	36	21.0	19.5	22.00	22.0	63	7.74	25
	M8	10R8	16.5	30	31	8.5	21.0	14.00	14.0	56	7.78	10
	M10	10R10	16.5	30	31	10.5	21.0	14.00	14.0	56	7.62	10
	M12	10R12	16.5	30	31	13.0	21.0	15.00	15.0	57	7.73	25
	M14	10R14	16.5	30	31	15.0	21.0	15.00	15.0	57	7.64	10
185	M16	10R16	16.5	30	31	17.0	21.0	16.00	16.0	58	7.53	10
	M20	10R20	16.5	30	36	21.0	21.0	22.00	22.0	66	8.80	10
	M10	11R10	19.0	30	35	10.5	24.0	18.00	18.0	65	11.75	10
	M12	11R12	19.0	30	35	13.0	24.0	18.00	18.0	65	11.82	10
	M14	11R14	19.0	30	35	15.0	24.0	18.00	18.0	65	11.39	10
240	M16	11R16	19.0	30	35	17.0	24.0	18.00	18.0	65	11.24	25
	M20	11R20	19.0	30	39	21.0	24.0	22.00	22.0	69	12.00	10
	M10	12R10	21.0	35	39	10.5	26.0	21.50	19.0	72	14.72	10
	M12	12R12	21.0	35	39	13.0	26.0	21.50	19.0	72	14.55	10
	M14	12R14	21.0	35	39	15.0	26.0	21.50	19.0	72	14.24	10
300	M16	12R16	21.0	35	39	17.0	26.0	21.50	19.0	72	14.09	25
	M20	12R20	21.0	35	39	21.0	26.0	21.50	19.0	72	13.60	10
	M12	13R12	23.5	44	43	13.0	29.5	24.00	24.0	87	23.33	5
	M14	13R14	23.5	44	43	15.0	29.5	24.00	24.0	87	23.14	5
400	M16	13R16	23.5	44	43	17.0	29.5	24.00	24.0	87	22.74	5
	M20	13R20	23.5	44	43	21.0	29.5	24.00	24.0	87	22.19	5
	M12	14R12	27.0	44	49	13.0	34.0	24.00	24.0	90	32.41	5
	M14	14R14	27.0	44	49	15.0	34.0	24.00	24.0	90	32.24	5
400	M16	14R16	27.0	44	49	17.0	34.0	24.00	24.0	90	31.98	5
	M20	14R20	27.0	44	49	21.0	34.0	24.00	24.0	90	31.41	5



Tubular cable lugs for switchgear connections, standard type



- ▶ For multi-stranded, round conductors e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ For connecting in switch cabinets with reduced connecting space
- ▶ Narrow palm version manufactured without material loss
- ▶ In combination with EKM 60 ID suitable for fine-stranded conductors

Characteristics

- Annealed material optimises material and crimping properties
- Simple and safe connection due to flat contact surfaces and internal chamfer

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

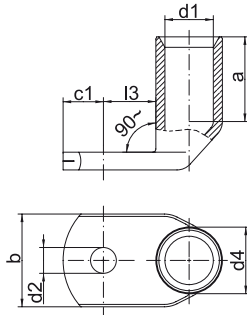
- Tool: see page 38
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“

Additional information

- Possible as a special version with inspection hole on request.
Part Number appendix „MS“

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
35	M6	5SG6	8.5	17	15.0	6.4	12.0	7.5	7.5	32	1.78	25
		6SG6	10.0	19	15.0	6.5	14.0	10.0	10.0	37	2.95	25
50	M8	6SG8	10.0	19	17.0	8.5	14.0	10.0	10.0	37	2.82	25
		6SG10	10.0	19	19.0	10.5	14.0	11.5	12.0	39	3.08	25
70	M6	7SG6	12.0	21	17.0	6.5	16.5	10.0	10.0	43	4.22	25
		7SG8	12.0	21	17.0	8.5	16.5	10.0	10.0	43	4.10	25
	M10	7SG10	12.0	21	19.0	10.5	16.5	11.5	12.0	44	4.45	25
		7SG12	12.0	21	19.0	13.0	16.5	13.0	13.0	46	4.22	25
95	M6	8SG6	13.5	25	19.0	6.5	18.0	11.5	12.0	48	5.49	25
		8SG8	13.5	25	19.0	8.5	18.0	11.5	12.0	48	5.46	25
	M10	8SG10	13.5	25	19.0	10.5	18.0	11.5	12.0	48	5.13	25
		8SG12	13.5	25	19.0	13.0	18.0	13.0	13.0	49	5.15	25
120	M6	9SG6	15.0	26	19.0	6.5	19.5	11.5	14.0	51	6.16	10
		9SG8	15.0	26	19.0	8.4	19.5	11.5	14.0	51	5.94	10
	M10	9SG10	15.0	26	19.0	10.5	19.5	11.5	14.0	51	5.81	10
		9SG12	15.0	26	19.0	13.0	19.5	14.0	14.0	51	5.92	10
150	M6	10SG6	16.5	30	19.0	6.5	21.0	11.5	14.0	56	6.85	10
		10SG8	16.5	30	19.0	8.5	21.0	11.5	14.0	56	6.80	10
	M10	10SG10	16.5	30	19.0	10.5	21.0	11.5	14.0	56	6.75	10
		10SG12	16.5	30	19.0	13.0	21.0	15.0	15.0	57	7.15	10
185	M10	11SG10	19.0	30	24.5	10.5	24.0	11.5	18.0	65	10.59	10
		11SG12	19.0	30	31.0	13.0	24.0	18.0	18.0	65	11.09	10
240	M16	11SG16	19.0	30	31.0	17.0	24.0	18.0	18.0	65	9.76	10
		12SG10	21.0	35	31.0	10.5	26.0	11.5	19.0	72	12.70	5
	M12	12SG12	21.0	35	31.0	13.0	26.0	21.5	19.0	72	13.72	5
		12SG16	21.0	35	31.0	17.0	26.0	21.5	19.0	72	13.28	5
300	M10	13SG10	23.5	44	31.0	10.5	29.5	11.5	24.0	87	19.70	5
		13SG12	23.5	44	31.0	13.0	29.5	24.0	24.0	87	22.72	5
	M16	13SG16	23.5	44	31.0	17.0	29.5	24.0	24.0	87	22.50	5

Angled tubular cable lugs, Cu, 90° angled, standard type



- ▶ For multi-stranded, round conductors e.g. to DIN EN 60228
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ Flat contact surface by special angle pressing technology
- ▶ In combination with the EKM 60 ID suitable for fine stranded conductors

Characteristics

- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer
- Item identification on cable lug

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 38
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“

Additional information

- Possible as a special version with inspection hole on request.
Part Number appendix „MS“

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	l3		
6	M5	41R5	3.5	9	10	5.3	6.5	7.5	9	0.59	50
	M6	41R6	3.5	9	12	6.3	6.5	7.5	10	0.58	50
	M8	41R8	3.5	9	14	8.4	6.5	10.0	13	0.61	50
	M10	41R10	3.5	9	17	10.5	6.5	12.0	15	0.65	50
	M12	41R12	3.5	9	19	13.0	6.5	13.0	17	0.62	50
10	M5	42R5	4.5	10	12	5.5	7.0	6.5	10	0.57	50
	M6	42R6	4.5	10	12	6.4	7.0	6.5	10	0.57	50
	M8	42R8	4.5	10	15	8.4	7.0	10.0	13	0.63	50
	M10	42R10	4.5	10	17	10.5	7.0	12.0	15	0.66	50
	M12	42R12	4.5	10	19	13.0	7.0	13.0	18	0.81	50
16	M5	43R5	5.5	13	12	5.5	8.5	7.5	10	1.01	50
	M6	43R6	5.5	13	12	6.4	8.5	7.5	11	1.01	50
	M8	43R8	5.5	13	15	8.4	8.5	10.0	13	1.08	50
	M10	43R10	5.5	13	17	10.5	8.5	12.0	15	1.09	50
	M12	43R12	5.5	13	19	13.0	8.5	13.0	18	1.15	50
25	M5	44R5	7.0	15	14	5.5	10.0	7.5	11	1.40	25
	M6	44R6	7.0	15	14	6.4	10.0	7.5	11	1.32	25
	M8	44R8	7.0	15	16	8.4	10.0	10.0	13	1.44	25
	M10	44R10	7.0	15	18	10.5	10.0	12.0	15	1.49	25
	M12	44R12	7.0	15	19	13.0	10.0	13.0	18	1.44	25
35	M14	44R14	7.0	15	21	15.0	10.0	14.5	20	1.55	25
	M6	45R6	8.5	17	17	6.4	12.0	7.5	11	2.05	25
	M8	45R8	8.5	17	17	8.4	12.0	10.0	13	2.20	25
	M10	45R10	8.5	17	19	10.5	12.0	12.0	15	2.28	25
	M12	45R12	8.5	17	21	13.0	12.0	13.0	18	2.38	25
	M14	45R14	8.5	17	21	15.0	12.0	14.5	20	2.41	25
	M16	45R16	8.5	17	26	17.0	12.0	16.0	22	2.40	25

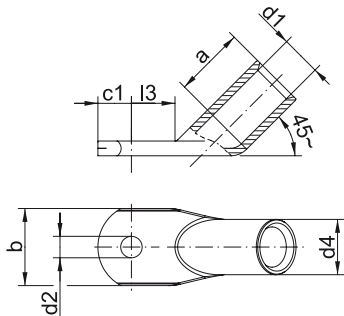
See next page



Angled tubular cable lugs, Cu, 90° angled, standard type

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm							Weight/100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	l3		
50	M6	46R6	10.0	19	20	6.4	14.0	10.0	13	3.34	25
	M8	46R8	10.0	19	20	8.4	14.0	10.0	13	3.28	25
	M10	46R10	10.0	19	20	10.5	14.0	12.0	16	3.47	25
	M12	46R12	10.0	19	23	13.0	14.0	13.0	18	3.42	25
	M14	46R14	10.0	19	23	15.0	14.0	14.5	20	3.55	25
	M16	46R16	10.0	19	28	17.0	14.0	16.0	22	3.58	25
	M20	46R20	10.0	19	30	21.0	14.0	19.0	24	3.15	25
70	M6	47R6	12.0	21	23	6.4	16.5	10.0	13	4.90	25
	M8	47R8	12.0	21	23	8.4	16.5	10.0	14	4.80	25
	M10	47R10	12.0	21	23	10.5	16.5	12.0	16	4.88	25
	M12	47R12	12.0	21	23	13.0	16.5	13.0	18	4.99	25
	M14	47R14	12.0	21	23	15.0	16.5	14.5	20	5.38	25
	M16	47R16	12.0	21	28	17.0	16.5	16.0	22	5.35	25
	M20	47R20	12.0	21	30	21.0	16.5	19.0	24	5.30	25
95	M8	48R8	13.5	25	26	8.4	18.0	12.0	14	5.89	25
	M10	48R10	13.5	25	26	10.5	18.0	12.0	17	5.88	25
	M12	48R12	13.5	25	26	13.0	18.0	13.0	18	5.93	25
	M14	48R14	13.5	25	26	15.0	18.0	14.5	20	6.03	25
	M16	48R16	13.5	25	28	17.0	18.0	16.0	22	6.17	25
	M20	48R20	13.5	25	36	21.0	18.0	22.0	24	6.42	25
	120	M8	49R8	15.0	26	28	8.4	19.5	14.0	16	7.26
M10		49R10	15.0	26	28	10.5	19.5	14.0	17	7.30	10
M12		49R12	15.0	26	28	13.0	19.5	14.0	18	7.19	10
M14		49R14	15.0	26	28	15.0	19.5	15.0	20	7.30	10
M16		49R16	15.0	26	30	17.0	19.5	16.0	22	7.35	10
M20		49R20	15.0	26	36	21.0	19.5	22.0	24	7.60	10
150		M8	50R8	16.5	30	31	8.4	21.0	14.0	16	8.41
	M10	50R10	16.5	30	31	10.5	21.0	14.0	17	8.27	10
	M12	50R12	16.5	30	31	13.0	21.0	15.0	18	8.34	10
	M14	50R14	16.5	30	31	15.0	21.0	15.0	20	8.52	10
	M16	50R16	16.5	30	31	17.0	21.0	16.0	22	8.62	10
	M20	50R20	16.5	30	36	21.0	21.0	22.0	24	9.10	10
	185	M10	51R10	19.0	30	35	10.5	24.0	18.0	22	12.17
M12		51R12	19.0	30	35	13.0	24.0	18.0	22	11.97	10
M14		51R14	19.0	30	35	15.0	24.0	18.0	22	11.77	10
M16		51R16	19.0	30	35	17.0	24.0	18.0	22	11.53	10
M20		51R20	19.0	30	39	21.0	24.0	22.0	24	12.00	10
240	M10	52R10	21.0	35	39	10.5	26.0	21.5	22	15.60	10
	M12	52R12	21.0	35	39	13.0	26.0	21.5	22	15.60	10
	M14	52R14	21.0	35	39	15.0	26.0	21.5	22	15.41	10
	M16	52R16	21.0	35	39	17.0	26.0	22.0	22	15.18	10
	M20	52R20	21.0	35	39	21.0	26.0	21.5	24	14.80	10
300	M12	53R12	23.5	44	43	13.0	29.5	24.0	24	23.60	5
	M14	53R14	23.5	44	43	15.0	29.5	24.0	24	23.40	5
	M16	53R16	23.5	44	43	17.0	29.5	24.0	24	20.99	5
	M20	53R20	23.5	44	43	21.0	29.5	24.0	24	22.70	5
400	M12	54R12	27.0	44	49	13.0	34.0	24.0	24	32.53	5
	M14	54R14	27.0	44	49	15.0	34.0	24.0	24	33.40	5
	M16	54R16	27.0	44	49	17.0	34.0	24.0	24	32.60	5
	M20	54R20	27.0	44	49	21.0	34.0	24.0	24	31.80	5

Angled tubular cable lugs, Cu, 45° angled, standard type



- ▶ For multi-stranded, round conductors e.g. to DIN EN 60228
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ Flat contact surface by special angle pressing technology
- ▶ In combination with EKM 60 ID suitable for fine-stranded conductors

Characteristics

- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer
- Item identification on cable lug

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 38
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“

Additional information

- Possible as a special version with inspection hole on request. Part Number appendix „MS“

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	l3		
6	M5	41R545	3.5	9	10	5.5	6.5	7.5	9	0.60	50
	M6	41R645	3.5	9	12	6.4	6.5	7.5	10	0.58	50
	M8	41R845	3.5	9	14	8.4	6.5	10.0	13	0.68	50
	M10	41R1045	3.5	9	17	10.5	6.5	12.0	15	0.70	50
	M12	41R1245	3.5	9	19	13.0	6.5	13.0	17	0.70	50
10	M5	42R545	4.5	10	12	5.5	7.0	6.5	10	0.57	50
	M6	42R645	4.5	10	12	6.4	7.0	6.5	10	0.57	50
	M8	42R845	4.5	10	15	8.4	7.0	10.0	13	0.63	50
	M10	42R1045	4.5	10	17	10.5	7.0	12.0	15	0.68	50
	M12	42R1245	4.5	10	19	13.0	7.0	13.0	18	0.68	50
16	M5	43R545	5.5	13	12	5.5	8.5	7.5	10	1.01	50
	M6	43R645	5.5	13	12	6.4	8.5	7.5	11	1.06	50
	M8	43R845	5.5	13	15	8.4	8.5	10.0	13	1.15	50
	M10	43R1045	5.5	13	17	10.5	8.5	12.0	15	1.09	50
	M12	43R1245	5.5	13	19	13.0	8.5	13.0	18	1.15	50
25	M5	44R545	7.0	15	14	5.5	10.0	7.5	11	1.40	25
	M6	44R645	7.0	15	14	6.4	10.0	7.5	11	1.32	25
	M8	44R845	7.0	15	16	8.4	10.0	10.0	13	1.44	25
	M10	44R1045	7.0	15	18	10.5	10.0	12.0	15	1.49	25
	M12	44R1245	7.0	15	19	13.0	10.0	13.0	18	1.44	25
35	M14	44R1445	7.0	15	21	15.0	10.0	14.5	20	1.55	25
	M6	45R645	8.5	17	17	6.4	12.0	7.5	11	2.05	25
	M8	45R845	8.5	17	17	8.4	12.0	10.0	13	2.20	25
	M10	45R1045	8.5	17	19	10.5	12.0	12.0	15	2.28	25
	M12	45R1245	8.5	17	21	13.0	12.0	13.0	18	2.38	25
	M16	45R1645	8.5	17	26	17.0	12.0	16.0	22	2.40	25

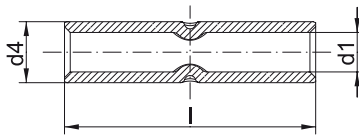
See next page



Angled tubular cable lugs, Cu, 45° angled, standard type

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm							Weight/100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	l3		
50	M6	46R645	10.0	19	20	6.4	14.0	10.0	13	3.43	25
	M8	46R845	10.0	19	20	8.4	14.0	10.0	13	3.28	25
	M10	46R1045	10.0	19	20	10.5	14.0	12.0	16	3.47	25
	M12	46R1245	10.0	19	23	13.0	14.0	13.0	18	3.42	25
	M16	46R1645	10.0	19	28	17.0	14.0	16.0	22	3.76	25
70	M6	47R645	12.0	21	23	6.4	16.5	10.0	13	5.06	25
	M8	47R845	12.0	21	23	8.4	16.5	10.0	14	5.06	25
	M10	47R1045	12.0	21	23	10.5	16.5	12.0	16	5.25	25
	M12	47R1245	12.0	21	23	13.0	16.5	13.0	18	5.30	25
	M14	47R1445	12.0	21	23	15.0	16.5	14.5	20	5.60	25
	M16	47R1645	12.0	21	28	17.0	16.5	16.0	22	5.61	25
95	M20	47R2045	12.0	21	30	21.0	16.5	19.0	24	5.60	25
	M8	48R845	13.5	25	26	8.4	18.0	12.0	14	6.19	25
	M10	48R1045	13.5	25	26	10.5	18.0	12.0	17	5.70	25
	M12	48R1245	13.5	25	26	13.0	18.0	13.0	18	6.67	25
	M16	48R1645	13.5	25	28	17.0	18.0	16.0	22	6.78	25
120	M20	48R2045	13.5	25	36	21.0	18.0	22.0	24	6.80	25
	M8	49R845	15.0	26	28	8.4	19.5	14.0	16	7.92	10
	M10	49R1045	15.0	26	28	10.5	19.5	14.0	17	7.99	10
	M12	49R1245	15.0	26	28	13.0	19.5	14.0	18	7.96	10
	M14	49R1445	15.0	26	28	15.0	19.5	15.0	20	7.94	10
150	M16	49R1645	15.0	26	30	17.0	19.5	16.0	22	8.26	10
	M8	50R845	16.5	30	31	8.4	21.0	14.0	16	9.00	10
	M10	50R1045	16.5	30	31	10.5	21.0	14.0	17	9.15	10
	M12	50R1245	16.5	30	31	13.0	21.0	15.0	18	8.75	10
	M14	50R1445	16.5	30	31	15.0	21.0	15.0	20	9.20	10
185	M16	50R1645	16.5	30	31	17.0	21.0	16.0	22	9.22	10
	M10	51R1045	19.0	30	35	10.5	24.0	18.0	22	13.30	10
	M12	51R1245	19.0	30	35	13.0	24.0	18.0	22	13.32	10
	M14	51R1445	19.0	30	35	15.0	24.0	18.0	22	13.40	10
	M16	51R1645	19.0	30	35	17.0	24.0	18.0	22	12.80	10
240	M20	51R2045	19.0	30	39	21.0	24.0	22.0	24	13.10	10
	M10	52R1045	21.0	35	39	10.5	26.0	21.5	22	16.28	10
	M12	52R1245	21.0	35	39	13.0	26.0	21.5	22	16.80	10
	M16	52R1645	21.0	35	39	17.0	26.0	21.5	22	16.10	10
300	M20	52R2045	21.0	35	39	21.0	26.0	21.5	24	16.10	10
	M12	53R1245	23.5	44	43	13.0	29.5	24.0	24	24.08	5
	M14	53R1445	23.5	44	43	15.0	29.5	24.0	24	24.20	5
	M16	53R1645	23.5	44	43	17.0	29.5	24.0	24	23.23	5
400	M12	54R1245	27.0	44	49	13.0	34.0	24.0	24	34.00	5
	M14	54R1445	27.0	44	49	15.0	34.0	24.0	24	33.40	5
	M16	54R1645	27.0	44	49	17.0	34.0	24.0	24	34.28	5

Butt connectors, Cu, standard type



- ▶ For fine-stranded round conductors, e.g. to DIN EN 60228 Cl. 5, 0,75-4 mm²
- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2, 6-400 mm²
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ Simple cable entry for internal chamfer
- ▶ In combination with EKM 60 ID suitable for fine-stranded conductors
- ▶ With reducing sleeves also suitable for connecting different cross-sections

Characteristics

- Simple and safe processing due to butt mark
- Annealed material optimises material and crimping properties
- Item identification on cable lug

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 38
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“
- Reduction sleeves for connecting unequal cross-sections can be found on page 68

Additional information

- Possible as a special version without inspection hole on request.
Part Number appendix „OM“

Nominal cross section mm ²	Part No.	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l		
0.75	17R	1.3	2.8	20	0.09	100
1.5	18R	1.8	3.3	25	0.12	100
2.5	19R	2.3	4.2	25	0.20	100
4	20R	3.0	5.0	25	0.26	100
6	21R	3.5	6.5	25	0.50	100
10	22R	4.5	7.0	30	0.72	100
16	23R	5.5	8.5	35	1.00	100
25	24R	7.0	10.0	40	1.41	50
35	25R	8.5	12.0	45	2.24	50
50	26R	10.0	14.0	50	3.36	50
70	27R	12.0	16.5	55	4.87	50
95	28R	13.5	18.0	60	5.91	25
120	29R	15.0	19.5	65	7.00	25
150	30R	16.5	21.0	70	8.12	10
185	31R	19.0	24.0	75	10.06	10
240	32R	21.0	26.0	85	13.82	10
300	33R	23.5	29.5	100	21.94	5
400	34R	27.0	34.0	100	29.65	5



Parallel connectors, Cu, standard type



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ Ideal for connecting differing cable cross-sections
- ▶ Simple cable entry due to internal chamfer

Characteristics

- Annealed material optimises material and crimping properties

Material

- Copper (EN13600)

Surface

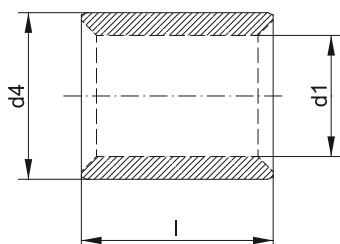
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 38

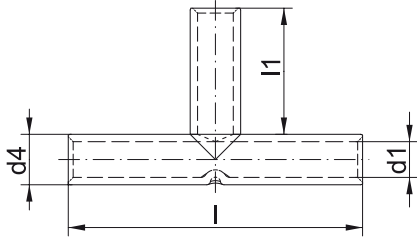
Additional information

- The stated nominal cross-section corresponds to the total cross-section of the cable
- Additional conductor types and combinations on request



Nominal cross section mm ²	Part No.	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l		
1.5	148R	1.8	3.3	5	0.03	100
2.5	149R	2.3	4.2	5	0.04	100
4	150R	3.0	5.0	7	0.08	100
6	151R	4.0	6.0	7	0.09	100
10	152R	4.5	7.0	9	0.17	100
16	153R	5.5	8.5	10	0.28	100
25	154R	7.0	10.0	13	0.44	100
35	155R	8.5	12.0	16	0.78	100
50	156R	10.0	14.0	19	1.22	100
70	157R	12.0	16.5	19	1.62	50
95	158R	13.5	18.0	20	1.90	50
120	159R	15.0	19.5	22	2.28	50
150	160R	16.5	21.0	26	3.00	50
185	161R	19.0	24.0	30	4.37	50
240	162R	21.0	26.0	32	5.30	25
300	163R	23.5	29.5	36	8.05	25

T-connectors, Cu, standard type



- ▶ For multi-stranded, round conductors e.g. to DIN EN 60228
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ Special version for cable tap conductors
- ▶ With reducing sleeves also suitable for connecting different cross-sections

Characteristics

- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer

Material

- Copper (EN13600)

Surface

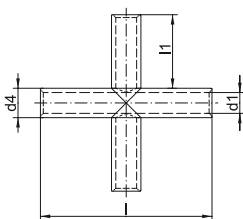
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 38
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“
- Reduction sleeves for connecting different conductor cross-sections you will find on page 68

Nominal cross section mm ²	Part No.	Dimension mm				Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l	l1		
1.5	TV15	1.8	3.3	30	12	0.23	50
2.5	TV2.5	2.3	4.2	30	12	0.37	50
4	TV4	3.0	5.0	30	12	0.45	50
6	TV6	4.0	6.0	35	14	0.73	50
10	TV10	4.5	7.0	35	14	1.05	50
16	TV16	5.5	8.5	50	21	2.20	50
25	TV25	7.0	10.0	55	23	2.90	25
35	TV35	8.5	12.0	70	30	5.20	25
50	TV50	10.0	14.0	80	34	7.90	25
70	TV70	12.0	16.5	85	35	11.20	10
95	TV95	13.5	18.0	90	36	13.00	10
120	TV120	15.0	19.5	95	38	14.70	10
150	TV150	16.5	21.0	110	44	18.90	10
185	TV185	19.0	24.0	115	45	25.00	5
240	TV240	21.0	26.0	130	52	31.10	5

Cross-connectors, Cu, standard type



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ Version for double cable tap conductors
- ▶ With reducing sleeves also suitable for connecting different cross-sections

Characteristics

- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 38
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“
- Reduction sleeves for connecting unequal conductor sections can be found on page 68

Nominal cross section mm ²	Part No.	Dimension mm				Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l	l1		
2.5	KV2.5	2.3	4.2	30	12	0.490	25
4	KV4	3.0	5.0	30	12	0.650	25
6	KV6	4.0	6.0	35	14	0.950	25
10	KV10	4.5	7.0	35	14	1.350	25
16	KV16	5.5	8.5	50	21	2.950	25
35	KV35	8.5	12.0	70	30	6.900	15
50	KV50	10.0	14.0	80	34	10.400	15
70	KV70	12.0	16.5	85	35	14.600	15
95	KV95	13.5	18.0	90	36	17.100	15
120	KV120	15.0	19.5	95	38	19.400	5

Insulated tubular cable lugs, Cu, standard type



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ No additional insulation of the crimped connection required
- ▶ Is directly crimped with the insulation

Characteristics

- Annealed material optimises material and crimping properties
- Simple and safe connection due to flat contact surfaces and internal chamfer
- Heat resistant to 105° C

Material

- Cable lug: Copper to EN 13600
- Insulation sleeve: PA, halogen-free

Surface

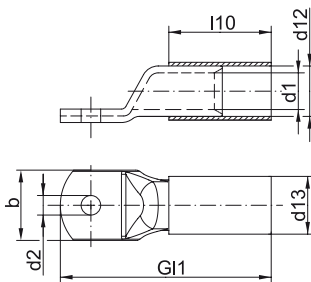
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 40
- Dimensions of tubular cable lugs can be found from page 14
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“

Additional information

- Possible as a special version with inspection hole on request. Part Number appendix „MS“



Nominal cross section mm ²	Size of bolt dia.	Part No.	Colour	Dimension mm					weight 100 pcs. ~kg Cu	weight 100 pcs. ~kg Total	Packing unit/ pcs
				d12	d13	d2	G1	l10			
10	M5	602R5	Red	7.0	9.0	5.5	35.5	17.0	0.50	0.548	25
	M6	602R6	Red	7.0	9.0	6.5	35.5	17.0	0.49	0.538	25
	M8	602R8	Red	7.0	9.0	8.5	42.0	17.0	0.58	0.628	25
	M10	602R10	Red	7.0	9.0	10.5	46.0	17.0	0.62	0.668	25
	M12	602R12	Red	7.0	9.0	13.0	49.0	17.0	0.64	0.688	25
	16	M5	603R5	Blue	8.5	10.5	5.5	39.5	21.0	0.84	0.907
M6		603R6	Blue	8.5	10.5	6.5	41.3	21.0	0.86	0.927	25
M8		603R8	Blue	8.5	10.5	8.5	45.5	21.0	0.93	0.997	25
M10		603R10	Blue	8.5	10.5	10.5	49.5	21.0	0.99	1.057	25
M12		603R12	Blue	8.5	10.5	13.0	54.0	21.0	1.02	1.087	25
25	M5	604R5	Yellow	10.0	12.0	5.5	45.0	24.0	1.22	1.312	25
	M6	604R6	Yellow	10.0	12.0	6.5	46.5	24.0	1.20	1.292	25
	M8	604R8	Yellow	10.0	12.0	8.5	51.0	24.0	1.31	1.402	25
	M10	604R10	Yellow	10.0	12.0	10.5	55.0	24.0	1.57	1.662	25
	M12	604R12	Yellow	10.0	12.0	13.0	57.0	24.0	1.39	1.482	25
	M14	604R14	Yellow	10.0	12.0	15.0	61.5	24.0	1.49	1.582	25
35	M6	605R6	Red	12.0	14.5	6.5	49.5	27.0	1.85	2.010	25
	M8	605R8	Red	12.0	14.5	8.5	54.0	27.0	2.00	2.160	25
	M10	605R10	Red	12.0	14.5	10.5	59.0	27.0	2.13	2.290	25
	M12	605R12	Red	12.0	14.5	13.0	61.0	27.0	2.12	2.280	25
	M14	605R14	Red	12.0	14.5	15.0	64.5	27.0	2.18	2.340	25
	M16	605R16	Red	12.0	14.5	17.0	68.0	27.0	2.24	2.400	25

See next page



Electrical connection systems

Copper tubular cable lugs and connectors

Insulated tubular cable lugs, Cu, standard type

Nominal cross section mm ²	Size of bolt dia.	Part No.	Colour	Dimension mm					Gewicht 100 St. ~kg Cu	Gewicht 100 St. ~kg Ges.	Packing unit/ pcs
				d12	d13	d2	Gl1	l10			
50	M8	606R8	■	14.0	16.5	8.5	59.0	32.0	2.93	3.150	25
	M10	606R10	■	14.0	16.5	10.5	63.0	32.0	3.08	3.300	25
	M12	606R12	■	14.0	16.5	13.0	68.0	32.0	3.23	3.450	25
	M14	606R14	■	14.0	16.5	15.0	71.5	32.0	3.32	3.540	25
	M16	606R16	■	14.0	16.5	17.0	77.0	32.0	3.38	3.600	25
	M20	606R20	■	14.0	16.5	21.0	83.5	32.0	3.46	3.680	25
70	M6	607R6	■	16.4	18.9	6.5	65.5	33.5	4.49	4.760	25
	M8	607R8	■	16.4	18.9	8.5	65.5	33.5	4.38	4.650	25
	M10	607R10	■	16.4	18.9	10.5	66.5	33.5	4.54	4.810	25
	M12	607R12	■	16.4	18.9	13.0	70.5	33.5	4.63	4.900	25
	M16	607R16	■	16.4	18.9	17.0	78.5	33.5	4.24	4.510	25
95	M8	608R8	■	17.8	20.8	8.5	74.0	40.0	5.44	5.85	25
	M10	608R10	■	17.8	20.8	10.5	74.0	40.0	5.40	5.81	25
	M12	608R12	■	17.8	20.8	13.0	76.0	40.0	5.56	5.97	25
120	M10	609R10	■	19.3	22.3	10.5	80.5	41.5	6.57	7.03	10
	M12	609R12	■	19.3	22.3	13.0	80.5	41.5	6.38	6.84	10

Insulated butt connectors, Cu, standard type



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ No additional insulation of the crimped connection required
- ▶ Is directly crimped with the insulation

Characteristics

- With buttmarks for precise cable insertion
- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer
- Heat resistant to 105° C

Material

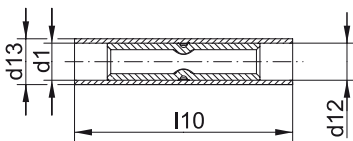
- Connector: Copper (EN 13600)
- Insulation sleeve: PA, halogen-free

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 40
- Dimensions of butt connectors can be found on page 21
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“



Nominal cross section mm ²	Part No.	Colour	Dimension mm				Gewicht 100 St. ~kg Cu	Gewicht 100 St. ~kg Ges.	Packing unit/pcs
			d1	d12	d13	l10			
10	622R	■	4,5	7,0	9,0	42	0,72	0,84	25
16	623R	■	5,5	8,5	10,5	50	1,00	1,16	25
25	624R	■	7,0	10,0	12,0	57	1,41	1,63	25
35	625R	■	8,5	12,0	14,4	65	2,24	2,60	25
50	626R	■	10,0	14,0	16,4	72	3,36	3,81	25
70	627R	■	12,0	16,4	19,0	80	4,87	5,46	25
95	628R	■	13,5	17,8	20,8	87	5,91	6,74	25



Tubular cable lugs, blue connection®, Cu



- ▶ For compacted multi-stranded round conductors to DIN EN 60228 Cl. 2
- ▶ Accurate assignment of crimping tool/crimping die through colour-coding system
- ▶ Fewer crimps due to max. crimping width
- ▶ Reduced costs due to compact dimensions

Characteristics

- Rigid design thanks to special shaped radius
- Processing takes place without the use of additional sleeves
- Annealed material optimises material and crimping properties
- Simple and safe connection due to flat contact surfaces and internal chamfer

Material

- Copper (EN13600)

Surface

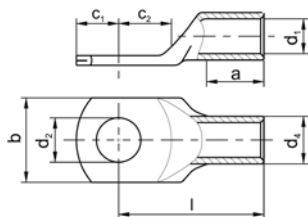
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 41

Additional information

- 10-300 mm² IEC-tested



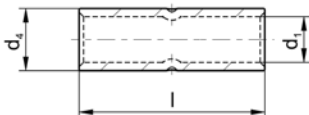
Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
6	M5	6B5	3.20	9.0	10.50	5.30	5.00	5.00	6.50	20.50	0.24	50
	M6	6B6	3.20	9.0	11.00	6.40	5.00	6.00	8.00	22.00	0.26	50
	M8	6B8	3.20	9.0	12.50	8.40	5.00	8.00	10.00	24.00	0.29	50
	M10	6B10	3.20	9.00	14.00	10.50	5.00	10.00	11.50	25.50	0.30	50
10	M5	10B5	4.10	9.00	11.50	5.30	6.50	5.00	6.50	21.00	0.35	50
	M6	10B6	4.10	9.00	12.00	6.40	6.50	6.00	8.00	22.50	0.39	50
	M8	10B8	4.10	9.00	14.00	8.40	6.50	8.00	10.00	24.50	0.43	50
	M10	10B10	4.10	9.00	15.00	10.50	6.50	10.00	11.50	26.00	0.44	50
16	M6	16B6	5.50	10.0	13.50	6.40	7.70	6.00	8.00	25.00	0.61	50
	M8	16B8	5.50	10.0	15.00	8.40	7.70	8.00	10.00	27.00	0.65	50
	M10	16B10	5.50	10.00	16.50	10.50	7.70	10.00	11.50	28.00	0.69	50
	M12	16B12	5.50	10.00	18.50	13.00	7.70	12.00	13.00	29.50	0.72	50
25	M6	25B6	6.60	10.0	15.00	6.40	9.00	6.00	8.00	25.50	0.81	25
	M8	25B8	6.60	10.0	16.00	8.40	9.00	8.00	10.00	27.50	0.88	50
	M10	25B10	6.60	10.0	18.00	10.50	9.00	10.00	11.50	29.00	0.93	50
	M12	25B12	6.60	10.0	19.50	13.00	9.00	12.00	13.00	30.50	0.97	25
35	M8	35B8	7.70	11.0	18.00	8.40	10.60	8.00	10.00	29.50	1.34	50
	M10	35B10	7.70	11.0	19.50	10.50	10.60	10.00	11.50	31.00	1.42	50
	M12	35B12	7.70	11.0	21.00	13.00	10.60	12.00	13.00	32.50	1.48	25
	M8	50B8	9.20	11.0	19.00	8.40	12.40	8.00	10.00	31.00	1.87	25
50	M10	50B10	9.20	11.0	21.00	10.50	12.40	10.00	11.50	32.50	1.95	25
	M12	50B12	9.20	11.0	23.00	13.00	12.40	12.00	13.00	34.00	2.05	25
	M8	70B8	11.00	21.0	22.00	8.40	14.60	8.00	10.00	41.50	3.17	25
70	M10	70B10	11.00	21.0	24.00	10.50	14.60	10.00	11.50	43.00	3.33	25
	M12	70B12	11.00	21.0	25.00	13.00	14.60	12.00	13.00	44.50	3.46	25
	M16	70B16	11.00	21.0	28.00	17.00	14.60	15.00	17.00	48.50	3.73	10
95	M10	95B10	13.00	21.0	26.00	10.50	17.00	10.00	11.50	44.50	4.55	25
	M12	95B12	13.00	21.0	28.00	13.00	17.00	12.00	13.00	46.00	4.75	25
	M16	95B16	13.00	21.0	30.00	17.00	17.00	15.00	17.00	50.00	5.01	10

See next page

Rohrkabelschuhe, blue connection®, Cu

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
120	M10	120B10	14.50	22.0	28.00	10.50	19.00	10.00	11.50	47.00	6.02	25
	M12	120B12	14.50	22.0	29.50	13.00	19.00	12.00	13.00	48.50	6.26	25
	M16	120B16	14.50	22.0	32.00	17.00	19.00	15.00	17.00	52.50	6.73	10
150	M10	150B10	16.20	22.0	30.00	10.50	21.00	10.00	11.50	48.50	7.41	10
	M12	150B12	16.20	22.0	32.00	13.00	21.00	12.00	13.00	50.00	7.71	10
185	M10	185B10	18.00	24.0	33.00	10.50	23.00	10.00	11.50	52.00	9.21	10
	M12	185B12	18.00	24.0	33.00	13.00	23.00	12.00	13.00	53.50	9.43	10
	M16	185B16	18.00	24.0	36.00	17.00	23.00	15.00	17.00	57.70	10.14	10
240	M12	240B12	20.60	24.0	38.00	13.00	26.00	12.00	13.00	56.00	12.46	10
	M16	240B16	20.60	24.0	38.00	17.00	26.00	15.00	17.00	60.00	13.24	10
300	M12	300B12	23.10	33.0	41.00	13.00	28.00	12.00	13.00	67.00	14.39	5
	M16	300B16	23.10	33.0	41.00	17.00	28.00	15.00	17.00	71.00	15.27	5

Butt connectors, blue connection®, Cu



- ▶ For compacted multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ Accurate assignment of crimping tool/crimping die through colour-coding system
- ▶ Fewer crimps due to max. crimping width
- ▶ Reduced costs due to compact dimensions

Characteristics

- Processing takes place without the use of additional sleeves
- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 41

Additional information

- 10-300 mm² IEC-tested

Nominal cross section mm ²	Part No.	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l		
6	6B	3.20	5.00	25.00	0.255	50
10	10B	4.10	6.50	25.00	0.360	50
16	16B	5.50	7.70	27.00	0.543	50
25	25B	6.60	9.00	27.00	0.699	50
35	35B	7.70	10.60	28.00	1.026	50
50	50B	9.20	12.40	28.00	1.334	25
70	70B	11.00	14.60	48.00	3.065	25
95	95B	13.00	17.00	48.00	3.987	25
120	120B	14.50	19.00	50.00	5.157	25
150	150B	16.20	21.00	52.00	6.379	10
185	185B	18.00	23.00	56.00	7.889	10
240	240B	20.60	26.00	58.00	10.000	10
300	300B	23.10	28.00	76.00	13.079	5



Tubular cable lugs, Cu, solid conductor type



- ▶ For single-stranded round conductors, e.g. to DIN EN 60228 Cl. 1
- ▶ For pre-rounded sector shaped conductors
- ▶ Safe and secure connecting of solid conductors

Characteristics

- Annealed material optimises material and crimping properties
- Simple and safe connection due to flat contact surfaces and internal chamfer

Material

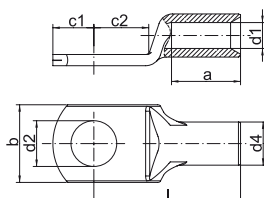
- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 44



Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
6	M5	SR65	3.0	8	9.0	5.3	5	4.75	6.0	17.0	0.213	25
	M6	SR66	3.0	8	10.0	6.4	5	6.50	6.5	19.0	0.220	25
10	M6	SR106	4.0	9	10.0	6.4	6	7.00	6.5	19.0	0.300	25
	M8	SR108	4.0	9	14.0	8.4	6	8.50	9.5	22.0	0.320	25
16	M6	SR166	5.0	12	12.5	6.4	8	6.50	7.0	23.5	0.800	25
	M8	SR168	5.0	12	15.0	8.5	8	9.00	9.0	26.0	0.900	25
25	M6	SR256	6.2	15	14.0	6.5	10	7.50	7.5	30.0	1.560	25
	M8	SR258	6.2	15	16.0	8.5	10	10.00	10.0	32.0	1.700	25
35	M8	SR358	7.0	15	16.0	8.5	10	10.00	10.0	32.0	1.310	25
	M10	SR3510	7.0	15	18.0	10.5	10	12.00	12.0	34.0	1.570	25
50	M6	SR506	8.5	17	17.0	6.5	12	7.50	7.5	32.0	1.850	25
	M8	SR508	8.5	17	17.0	8.4	12	10.00	10.0	34.0	2.000	25
	M10	SR5010	8.5	17	19.0	10.5	12	12.00	12.0	37.0	2.130	25

Butt connectors, Cu, solid conductor type



- ▶ For single-stranded round conductors, e.g. to DIN EN 60228 Cl. 1
- ▶ Also pre-rounded sector shaped conductors
- ▶ Safe and secure connecting of solid conductors
- ▶ Ideal for repairing damaged NYM cables

Characteristics

- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer

Material

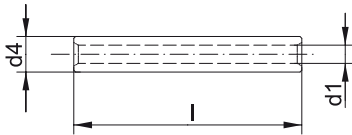
- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 44



Nominal cross section mm ²	Part No.	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l		
1.5-2.5	SV1525	2.0	3.9	25	0.210	100
4	SV4	2.4	4.4	25	0.240	100
6	SV6	3.0	5.0	25	0.275	100
10	SV10	4.0	6.0	25	0.350	100
16	SV16	5.0	8.0	35	0.960	100
25	SV25	6.2	10.0	40	1.700	50
35	SV35	7.0	10.0	40	1.420	50
50	SV50	8.5	12.0	70	3.550	50

T-connectors, Cu, solid conductor type



- ▶ For single-stranded round conductors, e.g. to DIN EN 60228 Cl. 1
- ▶ Also pre-rounded sector shaped conductors
- ▶ Safe and secure connecting of solid conductors
- ▶ Special version for cable tap conductors

Characteristics

- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer

Material

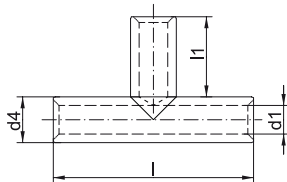
- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 44



Nominal cross section mm ²	Part No.	Dimension mm				Draht-Ø mm	Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l	l1			
1.5-2.5	STV1525	1.9	3.9	30	12	1.38/1.78	0.34	50
4	STV4	2.4	4.4	30	12	2.25	0.40	50
6	STV6	3.0	5.0	30	12	2.75	0.48	50
10	STV10	4.0	6.0	35	14	3.55	0.72	50
16	STV16	5.0	8.0	35	14	4.5	1.40	50
25	STV25	6.2	10.0	50	21	5.65	3.20	25
35	STV35	7.0	10.0	55	23	6.7	2.95	25
50	STV50	8.5	12.0	76	32	8	5.60	25



Cross-connectors, Cu, solid conductor type



- ▶ For single-stranded round conductors, e.g. to DIN EN 60228 Cl. 1
- ▶ Also pre-rounded sector shaped conductors
- ▶ Safe and secure connecting of solid conductors
- ▶ Special version for double cable tap conductors

Characteristics

- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer

Material

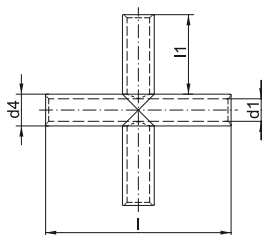
- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 44



Nominal cross section mm ²	Part No.	Dimension mm				Draht-Ø mm	Weight/100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l	l1			
1.5-2.5	SKV1525	1.9	3.9	30	12	1.38/1.78	0.47	25
4	SKV4	2.4	4.4	30	12	2.25	0.56	25
6	SKV6	3.0	5.0	30	12	2.75	0.67	25
16	SKV16	5.0	8.0	35	14	4.5	1.86	25
35	SKV35	7.0	10.0	55	23	6.7	3.80	15

Tubular cable lugs, Cu, F-series



- ▶ For fine and superfine stranded round conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Pipe dimension adjusted for fine and superfine stranded conductors
- ▶ Special wide opening for the easy entry of fine conductors

Characteristics

- Annealed material optimises material and crimping properties
- To DIN EN 61373 class 1B vibration-tested
- Simple and safe connection due to flat contact surfaces and internal chamfer
- Reliable assignment owed to item designation on the cable lug

Material

- Copper (EN13600)

Surface

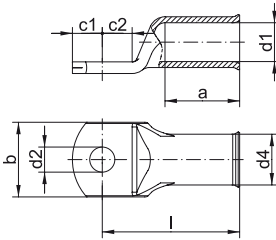
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 42

Additional information

- Possible as a special bright version on request. Part Number appendix „BK“
- 10 - 240 mm² UL-tested



Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
10	M5	702F5	5.5	14	12	5.5	8.0	6.25	7.5	27	0.72	100
	M6	702F6	5.5	14	12	6.5	8.0	6.25	7.5	27	0.71	100
	M8	702F8	5.5	14	16	8.4	8.0	9.00	9.5	29	0.77	100
	M10	702F10	5.5	14	16	10.5	8.0	10.50	11.5	31	0.82	100
	M12	702F12	5.5	14	19	13.0	8.0	12.00	13.0	32	0.82	100
16	M5	703F5	6.6	15	13	5.5	9.5	6.25	7.5	30	1.10	100
	M6	703F6	6.6	15	13	6.4	9.5	6.25	7.5	30	1.07	100
	M8	703F8	6.6	15	16	8.4	9.5	10.00	10.0	32	1.21	100
	M10	703F10	6.6	15	17	10.5	9.5	12.00	12.0	34	1.28	100
	M12	703F12	6.6	15	19	13.0	9.5	13.00	13.0	35	1.28	100
25	M5	704F5	7.9	17	15.5	5.3	11.0	7.50	7.5	32	1.52	25
	M6	704F6	7.9	17	15.5	6.5	11.0	7.50	7.5	32	1.50	100
	M8	704F8	7.9	17	17	8.4	11.0	10.00	10.0	34	1.61	100
	M10	704F10	7.9	17	17	10.5	11.0	12.00	12.0	37	1.71	100
	M12	704F12	7.9	17	19	13.0	11.0	13.00	13.0	38	1.74	25
35	M6	705F6	9.2	19	17.5	6.4	12.4	7.50	7.5	35	1.91	100
	M8	705F8	9.2	19	18	8.4	12.4	10.00	10.0	37	2.08	100
	M10	705F10	9.2	19	18	10.5	12.4	12.00	12.0	40	2.24	100
	M12	705F12	9.2	19	19	13.0	12.4	13.00	13.0	41	2.22	25
	M14	705F14	9.2	19	21	15.0	12.4	14.50	14.5	43	2.41	25
50	M6	706F6	11.0	21	21	6.4	15.0	10.00	10.0	41	3.54	25
	M8	706F8	11.0	21	21	8.4	15.0	10.00	10.0	41	3.44	50
	M10	706F10	11.0	21	21	10.5	15.0	12.00	12.0	43	3.64	50
	M12	706F12	11.0	21	21	13.0	15.0	13.00	13.0	46	3.73	50
	M14	706F14	11.0	21	23	15.0	15.0	14.50	14.5	48	3.89	25
	M16	706F16	11.0	21	28	17.0	15.0	16.00	16.0	50	4.02	25

See next page



Tubular cable lugs, Cu, F-series

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
70	M8	707F8	13.0	25	25	8.5	17.0	10.00	10.0	46	4.46	50
	M10	707F10	13.0	25	25	10.5	17.0	12.00	12.0	48	4.62	50
	M12	707F12	13.0	25	25	13.0	17.0	13.00	13.0	50	4.71	50
	M14	707F14	13.0	25	25	15.0	17.0	14.50	14.5	51.5	4.87	25
	M16	707F16	13.0	25	25	17.0	17.0	16.00	16.0	54	5.85	25
95	M8	708F8	14.5	26	28	8.5	19.0	12.00	12.0	52	6.35	25
	M10	708F10	14.5	26	28	10.5	19.0	12.00	12.0	52	6.23	50
	M12	708F12	14.5	26	28	13.0	19.0	13.00	13.0	53	6.31	50
	M14	708F14	14.5	26	28	15.0	19.0	14.50	14.5	55	6.46	25
	M16	708F16	14.5	26	28	17.0	19.0	16.00	16.0	56	6.56	50
120	M10	709F10	16.2	30	30	10.5	21.0	14.00	14.0	57	8.31	50
	M12	709F12	16.2	30	30	13.0	21.0	15.00	15.0	58	8.39	50
	M14	709F14	16.2	30	30	15.0	21.0	15.00	15.0	58	8.06	25
	M16	709F16	16.2	30	30	17.0	21.0	16.00	16.0	59	8.17	50
	M20	709F20	16.2	30	36	21.0	21.0	22.00	22.0	66	9.56	25
150	M10	710F10	18.0	32	34	10.5	23.0	15.00	16.0	64	10.91	10
	M12	710F12	18.0	32	34	13.0	23.0	16.00	17.0	65	10.89	25
	M14	710F14	18.0	32	34	15.0	23.0	18.00	19.0	67	11.42	10
	M16	710F16	18.0	32	34	17.0	23.0	19.00	20.0	68	11.30	10
	M20	710F20	18.0	32	40	21.0	23.0	21.00	22.0	70	11.36	10
185	M10	711F10	20.6	35	39	10.5	26.0	21.50	19.0	72	15.60	10
	M12	711F12	20.6	35	39	13.0	26.0	21.50	19.0	72	15.40	10
	M14	711F14	20.6	35	39	15.0	26.0	21.50	19.0	72	15.20	10
	M16	711F16	20.6	35	39	17.0	26.0	21.50	19.0	72	15.00	25
	M20	711F20	20.6	35	39	21.0	26.0	21.50	19.0	72	14.20	10
240	M10	712F10	23.1	44	41	10.5	28.0	16.00	17.0	80	16.50	10
	M12	712F12	23.1	44	42	13.0	28.0	16.00	17.0	80	16.30	10
	M14	712F14	23.1	44	41	15.0	28.0	19.00	20.0	83	16.80	10
	M16	712F16	23.1	44	41	17.0	28.0	19.00	20.0	83	16.71	25
	M20	712F20	23.1	44	41	21.0	28.0	21.00	22.0	85	17.12	10
300	M12	713F12	26.1	44	47	13.0	32.0	19.00	22.0	96	25.60	5
	M14	713F14	26.1	44	47	15.0	32.0	19.00	22.0	96	26.56	5
	M16	713F16	26.1	44	47	17.0	32.0	19.00	22.0	96	25.60	5
	M20	713F20	26.1	44	47	21.0	32.0	22.00	22.0	96	26.24	5

Angled tubular cable lugs, Cu, 90° and 45° angled, F-series



- ▶ For fine and superfine stranded round conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Tube dimension adjusted for fine and superfine stranded conductors
- ▶ Special wide opening for the easy entry of fine conductors
- ▶ Flat contact surface by special angle pressing technology

Characteristics

- Annealed material optimises material and crimping properties
- Tube dimensions suitable for fine stranded conductors
- Flat contact surface and internal chamfer for simple cable insertion

Material

- Copper (EN13600)

Surface

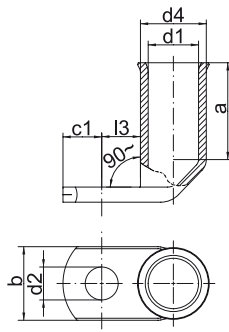
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 42

Additional information

- Possible as a special version with inspection hole on request. Part Number appendix „MS“
- Possible as a special 45° angled version on request. Part Number appendix „45“
- 90° angled version: 10 - 240 mm² UL-tested



Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	l3		
10	M5	742F5	5.5	14	12	5.3	8.0	6.25	10.5	0.80	50
	M6	742F6	5.5	14	12	6.4	8.0	6.25	10.5	0.78	50
	M8	742F8	5.5	14	16	8.4	8.0	9.00	12.5	0.84	50
	M10	742F10	5.5	14	16	10.5	8.0	10.50	14.5	0.88	50
	M12	742F12	5.5	14	19	13.0	8.0	12.00	16.0	0.90	50
16	M5	743F5	6.6	15	13	5.3	9.5	6.25	9.5	1.12	50
	M6	743F6	6.6	15	13	6.4	9.5	6.25	9.5	1.12	50
	M8	743F8	6.6	15	16	8.4	9.5	10.00	13.0	1.30	50
	M10	743F10	6.6	15	17	10.5	9.5	12.00	15.0	1.38	50
	M12	743F12	6.6	15	19	13.0	9.5	13.00	16.0	1.34	50
25	M5	744F5	7.9	17	15	5.3	11.0	7.50	10.5	1.52	25
	M6	744F6	7.9	17	15	6.4	11.0	7.50	10.5	1.54	25
	M8	744F8	7.9	17	17	8.5	11.0	10.00	13.0	1.80	25
	M10	744F10	7.9	17	17	10.5	11.0	12.00	15.0	1.79	25
	M12	744F12	7.9	17	19	13.0	11.0	13.00	16.0	1.76	25
35	M6	745F6	9.2	19	17	6.5	12.4	7.50	10.5	2.02	25
	M8	745F8	9.2	19	18	8.5	12.4	10.00	13.0	2.18	25
	M10	745F10	9.2	19	18	10.5	12.4	12.00	15.0	2.30	25
	M12	745F12	9.2	19	19	13.0	12.4	13.00	16.0	2.26	25
50	M6	746F6	11.0	21	21	6.4	15.0	10.00	10.0	3.75	25
	M8	746F8	11.0	21	21	8.5	15.0	10.00	10.0	3.57	25
	M10	746F10	11.0	21	21	10.5	15.0	12.00	15.0	3.83	25
	M12	746F12	11.0	21	21	13.0	15.0	13.00	16.0	3.74	25
	M14	746F14	11.0	21	23	15.0	15.0	14.50	17.5	4.20	25

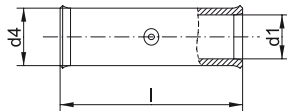
See next page



Angled tubular cable lugs, Cu, 90° angled, F-series

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm						Weight/ 100 pcs. ~ kg	Packing unit/pcs	
			d1	a	b	d2	d4	c1			l3
70	M8	747F8	13.0	25	25	8.5	17.0	10.00	15.0	4.83	25
	M10	747F10	13.0	25	25	10.5	17.0	12.00	16.0	5.18	25
	M12	747F12	13.0	25	25	13.0	17.0	13.00	17.5	5.16	25
	M14	747F14	13.0	25	25	15.0	17.0	14.50	19.0	5.38	25
	M16	747F16	13.0	25	25	17.0	17.0	16.00	15.0	6.50	25
95	M8	748F8	14.5	26	28	8.5	19.0	12.00	12.0	6.66	25
	M10	748F10	14.5	26	28	10.5	19.0	12.00	15.0	6.04	25
	M12	748F12	14.5	26	28	13.0	19.0	13.00	16.0	6.58	25
	M14	748F14	14.5	26	28	15.0	19.0	14.50	17.5	7.24	25
	M16	748F16	14.5	26	28	17.0	19.0	16.00	19.0	7.34	25
120	M10	749F10	16.2	30	30	10.5	21.0	14.00	14.0	8.76	10
	M12	749F12	16.2	30	30	13.0	21.0	15.00	18.0	8.76	10
	M14	749F14	16.2	30	30	15.0	21.0	15.00	18.0	9.15	10
	M16	749F16	16.2	30	30	17.0	21.0	16.00	19.0	8.54	10
150	M10	750F10	18.0	32	34	10.5	23.0	15.00	19.0	11.54	10
	M12	750F12	18.0	32	34	13.0	23.0	16.00	21.0	11.58	10
	M14	750F14	18.0	32	34	15.0	23.0	18.00	22.0	11.90	10
	M16	750F16	18.0	32	34	17.0	23.0	19.00	23.0	11.80	10
	M20	750F20	18.0	32	40	21.0	23.0	21.00	23.0	12.00	10
185	M12	751F12	20.6	35	39	13.0	26.0	21.50	22.0	16.36	10
	M14	751F14	20.6	35	39	15.0	26.0	21.50	22.0	16.20	10
	M16	751F16	20.6	35	39	17.0	26.0	21.50	22.0	15.36	10
	M20	751F20	20.6	35	39	21.0	26.0	21.50	22.0	15.80	10
240	M16	752F16	23.1	44	41	17.0	28.0	19.00	20.0	17.80	5

Butt connectors, Cu, F-series



- ▶ For fine and superfine stranded round conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Pipe dimension adjusted for fine and superfine stranded conductors
- ▶ Special wide opening for the easy entry of fine conductors

Characteristics

- Simple and safe processing due to butt mark
- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer

Material

- Copper (EN13600)

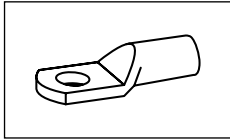
Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 42

Nominal cross section mm ²	Part No.	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l		
10	722F	5.5	8.0	38	0.90	100
16	723F	6.6	9.5	38	1.25	100
25	724F	7.9	11.0	38	1.56	50
35	725F	9.2	12.5	45	2.19	50
50	726F	11.0	15.0	45	3.37	50
70	727F	13.0	17.0	54	4.65	50
95	728F	14.5	19.0	56	6.05	25
120	729F	16.2	21.0	60	7.58	25
150	730F	18.0	23.0	68	9.83	10
185	731F	20.6	26.0	75	13.30	10

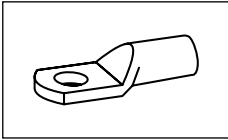


Tool application chart

Tubular cable lugs, butt connectors, parallel connectors and T-connectors „standard type“ and tubular cable lugs for switchgear connections made from Cu
Part 1 of 2




























Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0,75 - 16	K2		224		
	1 - 4	K511		233		
	6 - 50	K5		226		
		K05		229		
	6 + 10	K512		233		
	10 - 25	K04		228		
	6 - 120	K06		231		
	16 - 95	K95		225		
		TK95		225		
	25 - 150	K09		232		
	50 - 120	K6		226		
	35 - 95	K8		228		
	120 - 240	K7		227		
	185 - 400	K07		227		
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	0.75 - 10	K50		235	312	
		EK50ML		244	312	
	6 - 150	K354		236	314	
	6 - 240	K18		239	323	
	6 - 300	K22		240	327	
Hand hydraulic crimping tools	6 - 185	HK6018		280	323	
		HK60UNV	+UA18	465	323	
	6 - 300	HK6022		282	327	
		HK60UNV	+UA22	465	327	
	10 - 240	HK60VP		284		
	16 - 300	HK60VPFT		285		
	16 - 400	HK12030		286	333	
		HK12042		288	333	
HK120U			290	333		
Battery powered crimping tools	0.75 - 10	EK1550ML		248	312	
	6 - 120	EK30IDML		247		
	6 - 150	EK354ML		250	314	
		EK354		256	314	
	6 - 240	EK5018		260	323	
		EK60UNV	+UA18	468	323	
		EKM60UNV	+UA18	467	323	
	6 - 240	EK505		258	319	

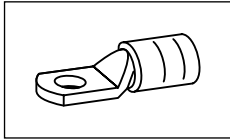
See next page



Tool application chart

Tubular cable lugs, butt connectors, parallel connectors and T-connectors „standard type“ and tubular cable lugs for switchgear connections made from Cu
Part 2 of 2

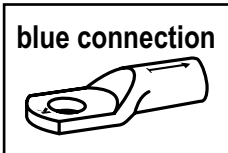
Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Battery powered crimping tools	6 - 300	EK6022		264	327	
		EKM6022		262	327	
		EK60UNV	+UA22	468	327	
		EKM60UNV	+UA22	467	327	
	10 - 240	EK60VP		266		
		EKM60ID		268		
	16 - 300	EK60VPFT		267		
	16 - 400	EK12032		270	333	
		EK12042		272	333	
		EK120U		274	333	
		EK135FT	+UA12T	276	333	
		EK120UNV	+UA15T	469	333	
	70 - 185	EK120ID		269		
	400 - 630	EK135FT		276	338	
	Hydraulic crimping systems	6 - 240	THK18		294	323
6 - 300		THK22		296	327	
10 - 400		THK120		300	333	
16 - 400		HK252	+25A13	308	333 + 339	
Hydraulic crimping heads	6 - 240	PK18		294	323	
		PK60UNV	+UA18	466	323	
	6 - 300	PK22		296	327	
		PK60UNV	+UA22	466	327	
	10 - 240	PK60VP		298		
		PK60ID		299		
	16 - 300	PK60VPFT		298		
	16 - 400	PK12042		300	333	
		PK120U		302	333	
	16 - 400	PK252	+25A13	304	333 + 339	



Tool application chart

Insulated tubular cable lugs and butt connectors „standard type“

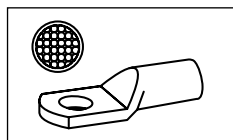
Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	10 - 70	K354		236	314	○
	10 - 95	K18		238	323	○
	10 - 150	K22		240	327	○
Hand hydraulic crimping tools	10 - 95	HK6018		280	323	○
		HK60UNV	+UA18	465	323	○
	10 - 150	HK6022		282	327	○
		HK60UNV	+UA22	465	327	○
		HK12030		286	333	○
		HK12042		288	333	○
		HK120U		290	333	○
Battery powered crimping tools	10 - 70	EK354ML		250	314	○
		EK354		256	314	○
	10 - 95	EK5018		260	323	○
		EK505		258	319	○
		EK60UNV	+UA18	468	323	○
		EKM60UNV	+UA18	467	323	○
		EK6022		262	327	○
	10 - 150	EKM6022		264	327	○
		EK60UNV	+UA22	468	327	○
		EKM60UNV	+UA22	467	327	○
		EK12032		270	333	○
		EK12042		272	333	○
		EK120U		274	333	○
		EK135FT	+UA15T	276	333	○
		EK120UNV	+UA12T	469	333	○
Hydraulic crimping systems	10 - 95	THK18		294	323	○
	10 - 150	THK22		296	327	○
		THK120		300	333	○
		HK252	+25A13	308	333	○
Hydraulic crimping heads	10 - 95	PK18		294	323	○
		PK60UNV	+UA18	466	323	○
	10 - 150	PK22		296	327	○
		PK60UNV	+UA22	466	327	○
		PK12042		300	333	○
		PK120U		302	333	○
		PK252	+25A13	304	333	○



Tool application chart

Tubular cable lugs and butt connectors blue connection®

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	6 - 50	K05BC		229		⬡
	6 - 300	K22		240	328	⬡
	6 - 120	K06BC		230		⬡
	25 - 150	K09BC		232		⬡
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	6 - 150	K354		236	314	⬡
Hand hydraulic crimping tools	6 - 240	HK60UNV	+UA5	465	319	⬡
	6 - 300	HK6022		282	328	⬡
		HK60UNV	+UA22	465	328	⬡
Battery powered crimping tools	6 - 150	EK354ML		250	314	⬡
		EK354		256	314	⬡
	6 - 185	EK505		258	319	⬡
		EKM60UNV	+UA5	467	319	⬡
		EK60UNV	+UA5	468	319	⬡
	6 - 300	EK6022		264	328	⬡
		EKM6022		262	328	⬡
		EKM60UNV	+UA22	467	328	⬡
		EK60UNV	+UA22	468	328	⬡
Hydraulic crimping systems	6 - 300	THK22		296	328	⬡
Hydraulic crimping heads	6 - 300	PK22		296	328	⬡
		PK60UNV	+UA22	466	328	⬡



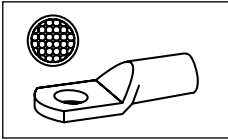
Tool application chart

Tubular cable lugs and butt connectors for fine stranded conductors

Part 1 of 2

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	6 - 50	K5		226		
	16 - 95	K95		225		
		TK95		225		
	35 - 95	K8		228		
	50 - 120	K6		226		
	120 - 240	K7		227		
	185 - 400	K07		227		
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	10 - 50	K354		236	315	
	10 - 50	K18		238	323	
	10 - 70	K22		240	328	
Hand hydraulic crimping tools	10 - 50	HK6018		280	323	
		HK60UNV	+UA18	465	323	
	10 - 70	HK6022		282	328	
		HK60UNV	+UA22	465	328	
	10 - 240	HK60VP		284		
	10 - 150	HK12030		286	334	
		HK12042		288	334	
		HK120U		290	334	
	16 - 300	HK60VPFT		285		
	Battery powered crimping tools	6 - 120	EK30IDML		247	328
EK354ML				250	315	
10 - 50		EK354		256	315	
		EK505		258	320	
		EK5018		260	323	
		EK60UNV	+UA18	468	323	
		EKM60UNV	+UA18	467	323	
		10 - 70	EK6022		264	328
EKM6022				262	328	
EK60UNV			+UA22	468	328	
EKM60UNV			+UA22	467	328	
10 - 240		EK60VP		266		
		EKM60ID		268		
10 - 150		EK12032		270	334	
		EK12042		272	334	
		EK120U		274	334	
		EK135FT	+UA15T	276	334	
		EK120UNV	+UA12T	469	334	
16 - 300		EK60VPFT		267		
70 - 240		EK120ID		269		
Hydraulic crimping systems	10 - 50	THK18		294	323	
	10 - 70	THK22		296	328	
	10 - 300	HK252	+25A13	308	334 + 339	

See next page

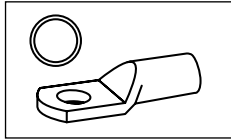


Tool application chart

Tubular cable lugs and butt connectors for fine stranded conductors

Part 2 of 2

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Hydraulic crimping heads	10 - 50	PK18		294	323	
		PK60UNV	+UA18	466	323	
	10 - 70	PK22		296	328	
		PK60UNV	+UA22	466	328	
	16 - 300	PK60VP		298		
		PK60ID		299		
	10 - 150	PK12042		300	334	
		PK120U		302	334	
	10 - 300	PK60VPFT		298		
		PK252	+25A13	304	334 + 339	



Tool application chart

Tubular cable lugs and butt connectors for solid conductors

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0.75-16	K02		224		
	1.5-4	K93		223		
	6-10	K94		223		
	25-50*	K05		229		
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	1.5-10	K50		235	312	
		EK50ML		244	312	
	1.5-16	K354		236	315	
		K18		238	324	
		K22		240	328	
Hand hydraulic crimping tools	1.5-16	HK6018		280	324	
		HK60UNV	+UA18	465	324	
		HK6022		282	328	
		HK60UNV	+UA22	465	328	
Battery powered crimping tools	1.5-10	EK1550ML		248	312	
		EK354ML		250	315	
	1.5-16	EK354		256	315	
		EK5018		260	324	
		EK60UNV	+UA18	468	324	
		EKM60UNV	+UA18	467	324	
		EK6022		264	328	
		EKM6022		262	328	
		EK60UNV	+UA22	468	328	
		EKM60UNV	+UA22	467	328	
		Hydraulic crimping systems	1.5-16	THK18		294
THK22				296	328	
Hydraulic crimping heads	1.5-16	PK18		294	324	
		PK60UNV	+UA18	466	324	
		PK22		296	328	
		PK60UNV	+UA22	466	328	

*For cross-sections 25 + 35 mm² use the die size 25 mm².

For cross-section 50 mm² use the die size 35 mm².

We recommend 2 crimps on each side



THE RESISTANT – TUBULAR CABLE LUGS AND CONNECTORS, NICKEL OR STAINLESS STEEL

We also develop for use in tough conditions. Our tubular cable lugs and connectors made from nickel and stainless steel are a cut above: withstanding temperatures of up to 650 °C, our Klauke products have without doubt developed to meet the requirements of the chemical industry, the foodstuff sector and foodstuff industry. You can also rely on our high-quality products for special applications. We know what we are doing.



In brief

- ▶ Tough to 650 °C
- ▶ Suitable for the chemical and foodstuff industry sectors, for instance
- ▶ Suitable even for aggressive environments, such as contact with salt water

► When things get hot: Nickel cable lugs

Nickel cable lugs are especially suitable for use in applications at high temperatures of up to 650 °C. Thanks to their high resilience they no longer need to be frequently replaced at connections exposed to heat.

- High-quality nickel
- Heat-resistant to 650 °C
- No constant replacement of the cable lug at hot locations



► Safe in aggressive environments with stainless steel

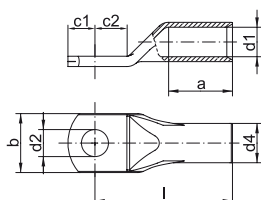
High-quality stainless steel ensures extra resilience, especially in aggressive environments. The resistance is retained.

- High-quality V2A and V4A stainless steel
- Acid resistant
- Can be used at temperatures to 400 °C
- V2A stainless steel for the chemical and foodstuff sectors and salt water applications
- V4A stainless steel in chlorinated environments such as swimming pools, for instance





Tubular cable lugs, stainless steel



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded stranded sector shaped conductors
- ▶ Ideal for aggressive environmental conditions, acid and rust-resistant
- ▶ Heat resistant up to 400 °C

Characteristics

- Simple and safe connection due to flat contact surfaces and internal chamfer

Material

- V2A (X5CrNi18-10)

Technical instructions

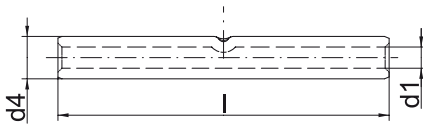
- Tool: see page 53

Additional information

- Also available as featured article in stainless steel V4A (X5CrNiMo17-12-2)

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/ pcs		
			d1	a	b	c1	c2	d2	d4	l				
0.5 - 1	M4	79V4	1.6	6	6.5	4.5	4.5	4.3	3.2	13	0.080	100		
	M5	79V5	1.6	6	7.5	5	5.5	5.3	3.2	14	0.080	100		
1.5 - 2.5	M4	80V4	3.0	8	9.0	5	5.5	4.3	5.0	17	0.260	100		
	M5	80V5	3.0	8	9.0	5	6	5.5	5.0	17	0.190	100		
	M6	80V6	3.0	8	9.5	6.5	6.5	6.5	5.0	19	0.215	100		
4 - 6	M4	81V4	4.0	9	9.0	5	5.5	4.3	6.0	18	0.260	100		
	M5	81V5	4.0	9	9.5	6	6	5.5	6.0	19	0.280	100		
	M6	81V6	4.0	9	10.0	7	6.5	6.5	6.0	19	0.280	100		
10	M5	82V5	5.0	10	12.5	6.5	7.5	5.5	8.0	22	0.710	100		
	M6	82V6	5.0	10	12.5	6.5	7.5	6.5	8.0	22	0.780	100		
	M8	82V8	5.0	10	15.0	9	10	8.5	8.0	25	0.780	100		
16	M5	83V5	6.0	13	12.0	5.5	6.5	5.5	8.0	28	0.500	50		
	M6	83V6	6.0	13	12.0	6	7.5	6.5	8.0	28	0.550	50		
	M8	83V8	6.0	13	15.0	8.5	9.5	8.5	8.0	29	0.600	50		
25	M6	84V6	7.0	15	14.0	7.5	7.5	6.5	10.0	30	1.210	50		
	M8	84V8	7.0	15	16.0	9	10	8.5	10.0	32	1.850	50		
35	M6	85V6	9.0	17	17.0	7.5	7.5	6.5	12.0	32	1.600	50		
	M8	85V8	9.0	17	17.0	10	10	8.5	12.0	35	1.850	50		
50	M6	86V6	10.0	19	20.0	10	10	6.5	14.0	37	2.800	50		
	M8	86V8	10.0	19	20.0	10	10	8.5	14.0	37	2.600	50		
	M10	86V10	10.0	19	20.0	12	12	10.5	14.0	39	2.800	50		
70	M12	86V12	10.0	19	20.0	13	13	13.0	14.0	43	2.960	50		
	M8	87V8	12.0	21	23.0	10	10	8.5	16.0	43	3.650	25		
	M10	87V10	12.0	21	23.0	12	12	10.5	16.0	44	3.930	25		
	M12	87V12	12.0	21	23.0	13	13	13.0	16.0	46	3.850	25		
95	M16	87V16	12.0	21	26.0	16	16	17.0	16.0	46	3.960	25		
	M8	88V8	14.0	25	26.0	12	12	8.5	18.0	48	4.650	25		
	M10	88V10	14.0	25	26.0	12	12	10.5	18.0	48	5.610	25		
			M12	88V12	14.0	25	26.0	13	13	13.0	18.0	49	5.540	25

Butt connectors, stainless steel



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded stranded sector shaped conductors
- ▶ Ideal for aggressive environmental conditions, acid and rust-resistant
- ▶ Heat resistant up to 400 °C

Characteristics

- Simple and safe processing due to butt mark
- Simple cable entry due to internal chamfer

Material

- V2A (X5CrNi18-10)

Technical instructions

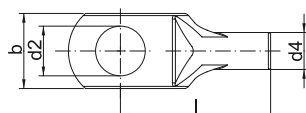
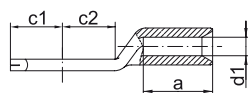
- Tool: see page 53

Additional information

- Also available as featured article in stainless steel V4A (X5CrNiMo17-12-2)

Nominal cross section mm ²	Part No.	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l		
0.5 - 1	79R	1.6	3.2	25	0.135	50
1.5 - 2.5	80R	3.0	5.0	25	0.250	50
4 - 6	81R	4.0	6.0	25	0.325	50
10	82R	5.0	8.0	25	0.360	50
16	83R	6.0	8.0	30	0.510	50
25	84R	7.0	10.0	35	1.100	25
35	85R	9.0	12.0	40	1.560	25
50	86R	10.0	14.0	45	2.670	25
70	87R	12.0	16.0	50	3.400	25
95	88R	14.0	18.0	55	4.300	25

Tubular cable lug, Ni



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded stranded sector shaped conductors
- ▶ Suitable for high temperatures up to 650 °C

Characteristics

- Simple and safe connection due to flat contact surfaces and internal chamfer

Material

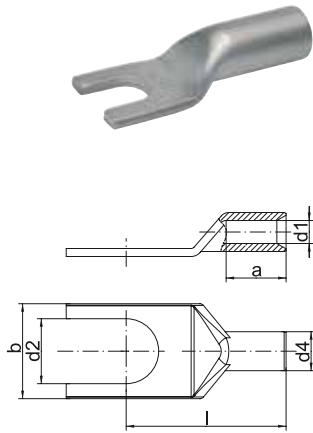
- High-grade nickel

Technical instructions

- Tool: see page 53

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/ pcs
			d1	a	b	d2	d4	c1	c2	l		
0.5 - 1	M3	56N3	1.6	4	6.5	3.2	3.2	3.5	4.5	13	0.080	100
	M4	56N4	1.6	6	6.5	4.3	3.2	4.5	4.5	13	0.080	100
	M5	56N5	1.6	6	7.5	5.3	3.2	5.0	5.5	14	0.080	100
1.5 - 2.5	M3	57N3	2.3	6	7.0	3.2	3.9	3.5	5.0	13	0.105	100
	M4	57N4	2.3	6	7.0	4.3	3.9	4.5	5.0	13	0.105	100
	M5	57N5	2.3	6	7.5	5.3	3.9	5.0	5.5	14	0.105	100
4 - 6	M6	57N6	2.3	6	9.5	6.5	3.9	6.0	6.5	16	0.130	100
	M4	58N4	3.6	9	9.5	4.3	5.6	4.5	5.0	18	0.275	100
	M5	58N5	3.6	9	9.5	5.3	5.6	5.0	5.5	19	0.275	100
10	M6	58N6	3.6	9	9.5	6.5	5.6	6.0	6.5	19	0.260	100
	M8	58N8	3.6	6	14	8.5	5.6	8.5	9.0	22	0.260	100
	M5	59N5	4.5	10	12.0	5.5	6.5	5.5	6.5	21	0.340	100
16	M6	59N6	4.5	10	12.0	6.5	6.5	6.5	7.5	22	0.360	100
	M5	60N5	5.5	13	12.0	5.5	7.5	5.5	6.5	26	0.470	100
	M6	60N6	5.5	13	12.0	6.5	7.5	6.5	7.5	27	0.480	100
25	M8	60N8	5.5	13	13.5	8.5	7.5	8.5	9.5	29	0.560	100
	M10	60N10	5.5	11	17	10.5	7.5	12.0	12.0	31	0.560	100
	M6	61N6	7.0	15	14.0	6.5	10.0	7.5	7.5	30	1.200	50
35	M8	61N8	7.0	15	16.0	8.5	10.0	10.0	10.0	32	1.320	50
	M10	61N10	7.0	13	17.0	10.5	10.0	12.0	12.0	34	1.320	50
	M6	62N6	8.5	17	17.0	6.5	12.0	7.5	7.5	32	1.850	50
50	M8	62N8	8.5	17	17.0	8.5	12.0	10.0	10.0	34	2.000	50
	M10	62N10	8.5	14.5	19.0	10.5	12.0	12.0	12.0	36	2.000	50
	M8	63N8	10.0	19	20.0	8.5	14.0	10.0	10.0	37	2.900	50
70	M10	63N10	10.0	19	20.0	10.5	14.0	12.0	12.0	39	3.100	50
	M10	64N10	12.0	21	23.0	10.5	16.5	12.0	12.0	44	4.600	25
95	M12	64N12	12.0	21	23.0	13.0	16.5	13.0	13.0	46	4.660	25
	M10	65N10	13.5	25	26.0	10.5	18.0	12.0	12.0	48	5.550	25
	M12	65N12	13.5	25	26.0	13.0	18.0	13.0	13.0	49	5.600	25

Tubular cable lugs, Cu, fork type



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded stranded sector shaped conductors
- ▶ Suitable for high temperatures up to 650 °C
- ▶ Simple fork-type mounting

Characteristics

- Simple and safe connection due to flat contact surfaces and internal chamfer

Material

- High-grade nickel

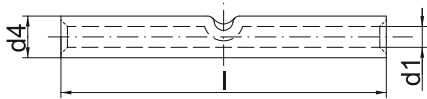
Technical instructions

- Tool: see page 53

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm						Weight/ 100 pcs. ~ kg	Packing unit/ pcs
			d1	a	b	d2	d4	l		
0.5 - 1	M4	56C4	1.6	6	6.5	4.3	3.2	13	0.070	50
	M5	56C5	1.6	6	7.5	5.3	3.2	14	0.075	50
1.5 - 2.5	M4	57C4	2.3	6	7.0	4.3	3.9	13	0.095	50
	M5	57C5	2.3	6	7.5	5.3	3.9	14	0.095	50
	M6	57C6	2.3	6	9.5	6.5	3.9	16	0.110	50
	M4	58C4	3.6	9	9.5	4.3	5.6	18	0.250	50
4 - 6	M5	58C5	3.6	9	9.5	5.3	5.6	19	0.255	50
	M6	58C6	3.6	9	9.5	6.5	5.6	19	0.235	50
10	M5	59C5	4.5	10	12.0	5.5	6.5	21	0.320	50
	M6	59C6	4.5	10	12.0	6.5	6.5	22	0.340	50
16	M5	60C5	5.5	13	12.0	5.5	7.5	26	0.440	50
	M6	60C6	5.5	13	12.0	6.5	7.5	27	0.450	50
	M8	60C8	5.5	13	13.5	8.5	7.5	29	0.520	50



Butt connectors, Ni



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded stranded sector shaped conductors
- ▶ Suitable for high temperatures to 650 °C

Characteristics

- Simple and safe processing due to butt mark
- Simple cable entry due to internal chamfer

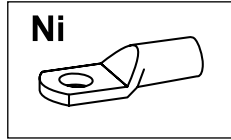
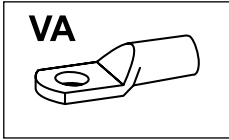
Material

- High-grade nickel

Technical instructions

- Tool: see page 53

Nominal cross section mm ²	Part No.	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l		
0.5 - 1	62R	1.6	3.2	25	0.135	50
1.5 - 2.5	63R	2.3	3.9	25	0.170	50
4 - 6	64R	3.6	5.6	25	0.325	50
10	65R	4.5	6.5	25	0.360	50
16	66R	5.5	7.5	30	0.510	50



Tool application chart

Tubular cable lugs and butt connectors made from stainless steel or nickel

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0,5 - 6	K25		225		
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	0,5 - 16	K354		236	315	+
	10 - 50	K22		240	328	
Hand hydraulic crimping tools	10 - 50	HK6022		282	328	
		HK6022UNV	+UA22	465	328	
	10 - 95	HK12030		286	328	+
		HK12042		288	328	+
Battery powered crimping tools	0,5 - 16	EK354ML		250	315	+
		EK354		256	315	+
	10 - 50	EKM6022		262	328	
		EK6022		264	328	
		EK60UNV	+UA22	468	328	
		EKM60UNV	+UA22	467	328	
	10 - 95	EK12032		270	334	+
		EK12042		272	334	+
		EK120U		274	334	+
		EK120UNV	+UA12T	469	334	+
		EK135FT	+UA15T	276	334	+
Hydraulic crimping systems	10 - 50	THK22		296	328	
	10 - 95	THK120		300	334	+
Hydraulic crimping heads	10 - 50	PK22		296	328	
		PK60UNV	+UA22	466	328	
	10 - 95	PK12042		300	334	+
		PK120U		302	334	+
		PK252	+25A13	304	334	+



CONFORMITY - COPPER COMPRESSION CABLE LUGS AND CONNECTORS TO DIN

Klauke products conform not only to its own standards. But also to DIN standards with strict standardised dimensions. Our compression cable lugs and connectors range to 1000 mm² nominal cross-section, with standardised designations and markings. We have the quality certified by the IEC test, including our special versions.



In brief

- ▶ Standardised sizes even for special versions
- ▶ Clear markings for standardised processing
- ▶ For all conductor classes to DIN EN 60228

▶ Tested and certified for safety

Our DIN cable lugs and connectors are strictly manufactured to standard. In addition, the test suggested in the standard has been passed with ease.

- Simple processing with DIN system
- Safety through standardised tests (IEC 61238-1)
- For all conductor classes to DIN EN 60228 and copper wires to DIN 46267-1



▶ Every version standardised

We offer cable lugs with tube dimension to DIN in numerous different forms and versions. If there happens to be no suitable connector for you, we will of course make you one to suit your needs.

- Flexible thanks to numerous versions
- Various surfaces available
- Many special versions based on the DIN standard available
- Manufactured to suit your particular requirements

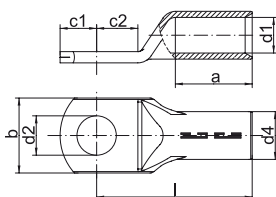
▶ Clear markings

Where simplicity and safety are key: Every cable lug to DIN comes with the appropriate crimping instruction. Readily visible markings indicate the crimping location required to work in compliance with the standard. Code numbers on the dies and cable lugs show the correct crimp at a glance.





Compression cable lugs to DIN, Cu



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 1, 2, 5 and 6
- ▶ For non-tension copper cables, e.g. to DIN 48201-1
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ With code number for clear tool assignment
- ▶ To DIN 46235

Characteristics

- Easy to process due to crimp markings
- Annealed material optimises material and crimping properties
- Simple and safe connection due to flat contact surfaces and internal chamfer

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 69

Additional information

- Possible as a special bright version on request. Part Number appendix „BK“
- Possible as a special version with barrier on request
- 10 - 800 mm² IEC-tested
- * = not standardised

Nominal cross section mm ²	Size of bolt diameter	Part No.	Hint	Code	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
					a	b	d1	d2	d4	c1	c2	l		
6	M 5	101R5		5	10.5	8.5	3.8	5.3	5.5	6.5	7.5	25	0.24	100
	M 6	101R6		5	10.5	8.5	3.8	6.4	5.5	8.0	8.5	25	0.30	100
	M 8	101R8	*	5	10.5	13.0	3.8	8.4	5.5	10.0	10.0	25	0.34	100
10	M 5	102R5		6	10.5	9.0	4.5	5.3	6.0	6.5	9.0	28	0.37	100
	M 6	102R6		6	10.5	9.0	4.5	6.4	6.0	8.0	9.0	28	0.36	100
	M 8	102R8	*	6	13.0	13.0	4.5	8.4	6.0	10.0	10.5	28	0.38	100
16	M 6	103R6		8	20.5	13.0	5.5	6.4	8.5	8.0	9.0	37	1.19	100
	M 8	103R8		8	20.5	13.0	5.5	8.4	8.5	10.5	11.0	37	1.22	100
	M 10	103R10		8	20.5	17.0	5.5	10.5	8.5	12.5	12.5	37	1.30	100
	M 12	103R12	*	8	20.5	18.5	5.5	13.0	8.5	13.0	13.0	38	1.27	100
25	M 6	104R6		10	20.5	14.0	7.0	6.4	10.0	8.0	9.0	39	1.51	50
	M 8	104R8		10	20.5	16.0	7.0	8.4	10.0	10.5	11.0	39	1.54	50
	M 10	104R10		10	20.5	17.0	7.0	10.5	10.0	12.5	13.0	39	1.62	50
	M 12	104R12		10	20.5	19.0	7.0	13.0	10.0	13.5	13.5	39	1.66	25
35	M 6	105R6	*	12	20.5	17.0	8.2	6.4	12.5	8.0	8.5	43	2.77	50
	M 8	105R8		12	20.5	17.0	8.2	8.4	12.5	10.5	10.5	43	2.85	50
	M 10	105R10		12	20.5	19.0	8.2	10.5	12.5	12.5	12.5	43	2.84	50
	M 12	105R12		12	20.5	21.0	8.2	13.0	12.5	13.5	13.5	43	2.79	50
	M 14	105R14	*	12	20.5	21.0	8.2	15.0	12.5	14.0	13.5	43	2.70	25

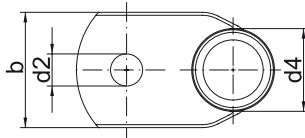
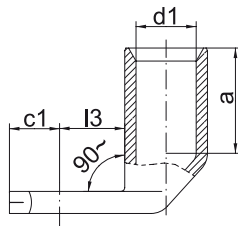
see next page

Compression cable lugs to DIN, Cu

Nominal cross section mm ²	Size of bolt diameter	Part No.	Hint	Code	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs	
					a	b	d1	d2	d4	c1	c2			l
50	M 8	106R8		14	28	20.0	10.0	8.4	14.5	10.5	11.0	53	4.46	50
	M 10	106R10		14	28	22.0	10.0	10.5	14.5	12.5	12.5	53	4.48	50
	M 12	106R12		14	28	24.0	10.0	13.0	14.5	13.5	13.5	53	4.40	50
	M 14	106R14	*	14	28	24.0	10.0	15.0	14.5	14	14.5	53	4.30	25
	M 16	106R16		14	28	28.0	10.0	17.0	14.5	16.5	16.5	53	4.57	25
70	M 8	107R8		16	28	24.0	11.5	8.4	16.5	10.5	10.5	56	5.92	50
	M 10	107R10		16	28	24.0	11.5	10.5	16.5	12.5	12.5	56	6.02	50
	M 12	107R12		16	28	24.0	11.5	13.0	16.5	13.5	13.5	56	5.89	50
	M 14	107R14	*	16	28	24.0	11.5	15.0	16.5	14.5	13.5	55	5.80	25
	M 16	107R16		16	28	30.0	11.5	17.0	16.5	16.5	16.5	56	6.13	25
95	M 8	108R8	*	18	35	28.0	13.5	8.4	19.0	12.5	12.5	66	9.21	25
	M 10	108R10		18	35	28.0	13.5	10.5	19.0	12.5	12.5	66	8.97	50
	M 12	108R12		18	35	28.0	13.5	13.0	19.0	13.5	13.5	66	8.62	50
	M 14	108R14	*	18	35	28.0	13.5	15.0	19.0	13.5	14.5	66	8.78	25
	M 16	108R16		18	35	32.0	13.5	17.0	19.0	16.5	16.5	66	9.00	50
120	M 10	109R10		20	35	32.0	15.5	10.5	21.0	12.5	16.0	71	11.40	50
	M 12	109R12		20	35	32.0	15.5	13.0	21.0	13.5	17.0	71	11.31	50
	M 14	109R14	*	20	35	32.0	15.5	15.0	21.0	18.0	18.0	70	11.45	25
	M 16	109R16		20	35	32.0	15.5	17.0	21.0	16.5	18.0	71	11.24	50
	M 20	109R20		20	35	38.0	15.5	21.0	21.0	19.0	21.0	71	11.03	25
150	M 10	110R10		22	35	34.0	17.0	10.5	23.5	12.5	15.5	79	16.38	10
	M 12	110R12		22	35	34.0	17.0	13.0	23.5	13.5	17.0	79	16.29	25
	M 14	110R14	*	22	35	34.0	17.0	15.0	23.5	17.5	20.0	79	16.38	10
	M 16	110R16		22	35	34.0	17.0	17.0	23.5	16.5	20.0	79	16.17	10
	M 20	110R20		22	35	40.0	17.0	21.0	23.5	19.5	22.0	79	15.90	10
185	M 10	111R10		25	40	37.0	19.0	10.5	25.5	12.5	16.5	83	18.96	10
	M 12	111R12		25	40	37.0	19.0	13.0	25.5	13.5	17.5	83	18.11	10
	M 14	111R14	*	25	40	37.0	19.0	15.0	25.5	17.5	19.0	83	19.21	10
	M 16	111R16		25	40	37.0	19.0	17.0	25.5	16.5	20.0	83	18.74	25
	M 20	111R20		25	40	40.0	19.0	21.0	25.5	19.5	22.0	83	18.69	10
240	M 12	112R12		28	40	42.0	21.5	13.0	29.0	13.5	18.0	93	27.00	10
	M 14	112R14	*	28	40	42.0	21.5	15.0	29.0	17.5	20.0	93	27.58	10
	M 16	112R16		28	40	42.0	21.5	17.0	29.0	16.5	21.0	93	27.37	25
	M 20	112R20		28	40	45.0	21.5	21.0	29.0	19.5	23.0	93	26.88	10
300	M 12	113R12	*	32	50	46.0	24.5	13.0	32.0	14.0	22.0	101	32.89	5
	M 14	113R14	*	32	50	46.0	24.5	15.0	32.0	17.0	22.0	101	33.29	5
	M 16	113R16		32	50	46.0	24.5	17.0	32.0	16.5	23.0	101	32.94	5
	M 20	113R20		32	50	46.0	24.5	21.0	32.0	19.5	22.0	101	33.24	5
400	M 14	114R14	*	38	70	54.0	27.5	15.0	38.5	22.5	23.0	116	69.38	5
	M 16	114R16		38	70	54.0	27.5	17.0	38.5	22.5	23.0	116	68.54	5
	M 20	114R20		38	70	54.0	27.5	21.0	38.5	22.5	22.0	116	65.40	5
500	M 16	115R16	*	42	70	60.0	31.0	17.0	42.0	23.5	26.0	126	83.31	1
	M 20	115R20		42	70	60.0	31.0	21.0	42.0	22.5	26.0	126	81.58	1
625	M 16	116R16	*	44	80	64.0	34.5	17.0	44.0	23.0	26.0	137	79.60	1
	M 20	116R20		44	80	64.0	34.5	21.0	44.0	22.5	26.0	136	79.69	1
800	M 16	117R16	*	52	100	75.0	40.0	17.0	52.0	30.0	30.0	166	150.00	1
	M 20	117R20		52	100	75.0	40.0	21.0	52.0	22.5	30.0	166	149.00	1
1000	M 16	118R16	*	58	100	83.0	44.0	17.0	58.0	30.0	30.0	166	199.00	1
	M 20	118R20		58	100	83.0	44.0	21.0	58.0	30.0	30.0	166	195.00	1



Angled compression cable lugs, Cu, 90° angled



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 1, 2, 5 and 6
- ▶ For non-tension copper cables, e.g. to DIN 48201-1
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ Tube dimensions according to DIN 46235
- ▶ With code number for clear tool assignment

Characteristics

- With crimp markings for correct crimp positioning
- Simple and safe connection due to flat contact surfaces and internal chamfer
- Annealed material optimises material and crimping properties

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 69

Additional information

- Possible as a special bright version on request. Part Number appendix „BK“
- 10 - 240 mm² IEC-tested

Nominal cross section mm ²	Size of bolt diameter	Part No.	Code	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	d4	c1	l3		
6	M 5	161R5	5	10.5	8.5	3.8	5.3	5.5	6.5	9	0.28	50
	M 6	161R6	5	10.5	8.5	3.8	6.4	5.5	8.0	10	0.32	50
10	M 5	162R5	6	10.5	9.0	4.5	5.3	6.0	6.5	10	0.34	50
	M 6	162R6	6	10.5	9.0	4.5	6.4	6.0	8.0	10	0.35	50
	M 8	162R8	6	10.5	13.0	4.5	8.4	6.0	10.0	13	0.37	50
16	M 6	163R6	8	20.5	13.0	5.5	6.4	8.5	8.0	11	1.20	50
	M 8	163R8	8	20.5	13.0	5.5	8.4	8.5	10.5	13	1.30	50
	M 10	163R10	8	20.5	17.0	5.5	10.5	8.5	12.5	15	1.40	50
	M 12	163R12	8	20.5	18.5	5.5	13.0	8.5	13.0	18	1.33	50
25	M 6	164R6	10	20.5	14.0	7.0	6.4	10.0	8.0	11	1.54	25
	M 8	164R8	10	20.5	16.0	7.0	8.4	10.0	10.5	13	1.60	25
	M 10	164R10	10	20.5	17.0	7.0	10.5	10.0	12.5	15	1.63	25
	M 12	164R12	10	20.5	19.0	7.0	13.0	10.0	13.5	18	1.70	25
35	M 8	165R8	12	20.5	17.0	8.2	8.4	12.5	10.5	13	2.72	25
	M 10	165R10	12	20.5	19.0	8.2	10.5	12.5	12.5	15	2.76	25
	M 12	165R12	12	20.5	21.0	8.2	13.0	12.5	13.5	18	2.85	25
	M 14	165R14	12	20.5	21.0	8.2	15.0	12.5	14.0	20	2.92	25
50	M 8	166R8	14	29.0	20.0	10.0	8.4	14.5	10.5	13	4.39	25
	M 10	166R10	14	29.0	22.0	10.0	10.5	14.5	12.5	16	4.46	25
	M 12	166R12	14	29.0	24.0	10.0	13.0	14.5	13.5	18	4.49	25
	M 14	166R14	14	29.0	24.0	10.0	15.0	14.5	14.0	20	4.73	25
	M 16	166R16	14	29.0	28.0	10.0	17.0	14.5	16.5	22	4.66	25

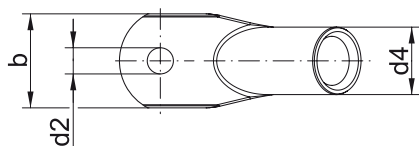
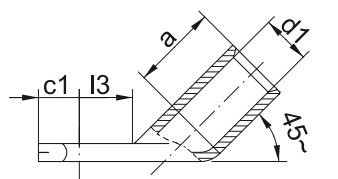
see next page

Angled compression cable lugs, Cu, 90° angled

Nominal cross section mm ²	Size of bolt diameter	Part No.	Code	Dimension mm							Weight/100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	d4	c1	l3		
70	M 8	167R8	16	29.0	24.0	11.5	8.4	16.5	10.5	14	5.92	25
	M 10	167R10	16	29.0	24.0	11.5	10.5	16.5	12.5	16	6.31	25
	M 12	167R12	16	29.0	24.0	11.5	13.0	16.5	13.5	18	6.34	25
	M 14	167R14	16	29.0	24.0	11.5	15.0	16.5	14.5	20	6.50	25
	M 16	167R16	16	29.0	30.0	11.5	17.0	16.5	16.5	22	6.63	25
95	M 10	168R10	18	36.0	28.0	13.5	10.5	19.0	12.5	17	9.03	25
	M 12	168R12	18	36.0	28.0	13.5	13.0	19.0	13.5	18	9.27	25
	M 14	168R14	18	36.0	28.0	13.5	15.0	19.0	13.5	20	9.06	25
	M 16	168R16	18	36.0	32.0	13.5	17.0	19.0	16.5	22	9.18	25
120	M 10	169R10	20	36.0	32.0	15.5	10.5	21.0	12.5	17	10.41	10
	M 12	169R12	20	36.0	32.0	15.5	13.0	21.0	13.5	18	10.65	10
	M 14	169R14	20	36.0	32.0	15.5	15.0	21.0	18.0	20	10.75	10
	M 16	169R16	20	36.0	32.0	15.5	17.0	21.0	16.5	22	10.72	10
	M 20	169R20	20	36.0	38.0	15.5	21.0	21.0	19.5	24	11.00	10
150	M 10	170R10	22	36.0	34.0	17.0	10.5	23.5	12.5	17	14.18	10
	M 12	170R12	22	36.0	34.0	17.0	13.0	23.5	13.5	18	14.33	10
	M 14	170R14	22	36.0	34.0	17.0	15.0	23.5	17.5	20	15.60	10
	M 16	170R16	22	36.0	34.0	17.0	17.0	23.5	16.5	22	15.24	10
	M 20	170R20	22	36.0	40.0	17.0	21.0	23.5	19.5	24	15.70	10
185	M 10	171R10	25	41.0	37.0	19.0	10.5	25.5	12.5	22	18.60	10
	M 12	171R12	25	41.0	37.0	19.0	13.0	25.5	13.5	22	18.69	10
	M 14	171R14	25	41.0	37.0	19.0	15.0	25.5	17.5	22	19.10	10
	M 16	171R16	25	41.0	37.0	19.0	17.0	25.5	16.5	22	19.00	10
	M 20	171R20	25	41.0	40.0	19.0	21.0	25.5	19.5	24	18.72	10
240	M 12	172R12	28	41.0	42.0	21.5	13.0	29.0	13.5	22	25.09	10
	M 14	172R14	28	41.0	42.0	21.5	15.0	29.0	17.5	22	25.70	10
	M 16	172R16	28	46.0	42.0	21.5	17.0	29.0	16.5	22	24.96	10
	M 20	172R20	28	46.0	45.0	21.5	21.0	29.0	19.5	24	25.26	10



Angled compression cable lugs, Cu, 45° angled



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 1, 2, 5 and 6
- ▶ For non-tension copper cables, e.g. to DIN 48201-1
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ Tube dimensions according to DIN 46235
- ▶ With code number for clear tool assignment

Characteristics

- Flat contact surface by special angle pressing process
- Easy to process due to crimp markings
- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“
- Tool: see page 69

Additional information

- Possible as a special bright version on request. Part Number appendix „BK“
- 10 - 240 mm² IEC-tested

Nominal cross section mm ²	Size of bolt diameter	Part No.	Code	Dimension mm							Weight/100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	d4	c1	l3		
6	M 5	161R545	5	10,5	8,5	3,8	5,3	5,5	6,5	9	0,32	50
	M 6	161R645	5	10,5	8,5	3,8	6,4	5,5	8,0	10	0,34	50
10	M 5	162R545	6	10,5	9,0	4,5	5,3	6,0	6,5	10	0,36	50
	M 6	162R645	6	10,5	9,0	4,5	6,4	6,0	8,0	10	0,35	50
	M 8	162R845	6	10,5	13,0	4,5	8,4	6,0	10,0	13	0,39	50
	M 6	163R645	8	20,5	13,0	5,5	6,4	8,5	8,0	11	1,20	50
16	M 8	163R845	8	20,5	13,0	5,5	8,4	8,5	10,5	13	0,28	50
	M 10	163R1045	8	20,5	17,0	5,5	10,5	8,5	12,5	15	1,34	50
	M 12	163R1245	8	20,5	18,0	5,5	13,0	8,5	13,0	18	1,35	50
	M 6	164R645	10	20,5	14,0	7,0	6,4	10,0	8,0	11	1,49	25
25	M 8	164R845	10	20,5	16,0	7,0	8,4	10,0	10,5	13	1,60	25
	M 10	164R1045	10	20,5	17,0	7,0	10,5	10,0	12,5	15	1,64	25
	M 12	164R1245	10	20,5	19,0	7,0	13,0	10,0	13,5	18	1,73	25
	M 8	165R845	12	20,5	17,0	8,2	8,4	12,5	10,5	13	2,72	25
35	M 10	165R1045	12	20,5	19,0	8,2	10,5	12,5	12,5	15	2,92	25
	M 12	165R1245	12	20,5	21,0	8,2	13,0	12,5	13,5	18	2,98	25
	M 8	166R845	14	29,0	20,0	10,0	8,4	14,5	10,5	13	4,63	25
	M 10	166R1045	14	29,0	22,0	10,0	10,5	14,5	12,5	16	4,84	25
50	M 12	166R1245	14	29,0	24,0	10,0	13,0	14,5	13,5	18	4,94	25
	M 14	166R1445	14	29,0	24,0	10,0	15,0	14,5	14,0	20	4,96	25
	M 16	166R1645	14	29,0	28,0	10,0	17,0	14,5	16,5	22	4,92	25

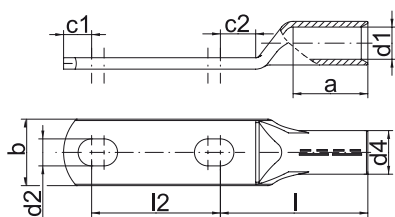
see next page

Angled compression cable lugs, Cu, 45° angled

Nominal cross section mm ²	Size of bolt diameter	Part No.	Code	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	d4	c1	l3		
70	M 8	167R845	16	29.0	24.0	11.5	8.4	16.5	10.5	14	6.40	25
	M 10	167R1045	16	29.0	24.0	11.5	10.5	16.5	12.5	16	6.76	25
	M 12	167R1245	16	29.0	24.0	11.5	13.0	16.5	13.5	18	6.90	25
	M 14	167R1445	16	29.0	24.0	11.5	15.0	16.5	14.5	20	6.72	25
95	M 10	168R1045	18	36.0	28.0	13.5	10.5	19.0	12.5	17	9.64	25
	M 12	168R1245	18	36.0	28.0	13.5	13.0	19.0	13.5	18	9.21	25
	M 14	168R1445	18	36.0	28.0	13.5	15.0	19.0	13.5	20	9.51	25
	M 16	168R1645	18	36.0	32.0	13.5	17.0	19.0	16.5	22	9.40	25
120	M 10	169R1045	20	36.0	32.0	15.5	10.5	21.0	12.5	17	11.09	10
	M 12	169R1245	20	36.0	32.0	15.5	13.0	21.0	13.5	18	11.45	10
	M 14	169R1445	20	36.0	32.0	15.5	15.0	21.0	18.0	20	11.55	10
	M 16	169R1645	20	36.0	32.0	15.5	17.0	21.0	16.5	22	11.76	10
	M 20	169R2045	20	36.0	38.0	15.5	21.0	21.0	19.5	24	11.55	10
150	M 10	170R1045	22	36.0	34.0	17.0	10.5	23.5	12.5	17	15.93	10
	M 12	170R1245	22	36.0	34.0	17.0	13.0	23.5	13.5	18	16.08	10
	M 14	170R1445	22	36.0	34.0	17.0	15.0	23.5	17.5	20	16.38	10
	M 16	170R1645	22	36.0	34.0	17.0	17.0	23.5	16.5	22	16.90	10
	M 20	170R2045	22	40.0	40.0	17.0	21.0	23.5	19.5	24	16.49	10
185	M 10	171R1045	25	41.0	37.0	19.0	10.5	25.5	12.5	22	20.16	10
	M 12	171R1245	25	41.0	37.0	19.0	13.0	25.5	13.5	22	19.60	10
	M 14	171R1445	25	41.0	37.0	19.0	15.0	25.5	17.5	22	20.05	10
	M 16	171R1645	25	41.0	37.0	19.0	17.0	25.5	16.5	22	19.68	10
	M 20	171R2045	25	41.0	40.0	19.0	21.0	25.5	19.5	24	19.95	10
240	M 12	172R1245	28	47.0	42.0	21.5	13.0	29.0	13.5	22	26.46	10
	M 14	172R1445	28	46.0	42.0	21.5	15.0	29.0	17.5	22	26.99	10
	M 16	172R1645	28	46.0	42.0	21.5	17.0	29.0	16.5	22	26.92	10



Compression cable lugs to DIN special type, Cu with 2 holes



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 1, 2, 5 and 6
- ▶ For non-tension copper cables, e.g. to DIN 48201-1
- ▶ For pre-rounded sector shaped conductors
- ▶ Tube dimensions according to DIN 46235
- ▶ With code number for clear tool assignment

Characteristics

- Easy to process due to crimp markings
- Annealed material optimises material and crimping properties
- Flat contact surface by special pressing technique
- Internal chamfer for simple cable insertion

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 69

Additional information

- Part Number appendix for bright version „BK“

Nominal cross section mm ²	Size of bolt diameter	Part No.	Code	Dimension mm										Weight/ 100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	d4	c1	c2	l	l2			
70	2 x M 12	147D212	16	29.0	24	11.5	13	16.5	13.5	13.5	56	50 - 62	10.82	5	
95		148D212	18	36.0	28	13.5	13	19.0	13.5	13.5	66	50 - 62	15.24	5	
120		149D212	20	36.0	32	15.5	13	21.0	13.5	17.0	70	50 - 62	18.62	5	
150		150D212	22	42.0	34	17.0	13	23.5	13.5	17.0	78	50 - 62	26.10	5	
185		151D212	25	41.0	37	19.0	13	25.5	13.5	17.5	82	50 - 62	30.48	5	
240		152D212	28	47.0	42	21.5	13	29.0	13.5	18.0	92	50 - 62	41.52	5	

Compression cable lugs, special type, Cu with 1 hole, double crimping



▶ Special design for mounting of 2 multi-stranded cables, e.g. to DIN EN 60228 Cl. 2



▶ With crimp markings for correct crimp positioning

Characteristics

- Annealed material optimises material and crimping properties
- Simple and safe connection due to flat contact surfaces and internal chamfer

Material

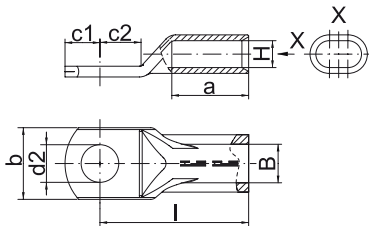
- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 70



Nominal cross section mm ²	Size of bolt diameter	Part No.	Code	Dimension mm						H	B	Weight/100 pcs. ~ kg	Packing unit/pcs
				a	b	d2	c1	c2	l				
2 x 50	M 12	136DP12	22 DP	42	34	13	13.5	17.0	79	10.0	20	16.30	5
2 x 70		137DP12	24 DP	41	37	13	13.5	17.5	83	11.5	23	18.90	5
2 x 95		138DP12	29 DP	47	42	13	13.5	18.0	93	13.5	27	27.12	5
2 x 120		139DP12	32 DP	52	46	13	14.0	22.0	101	15.5	31	33.50	5

Compression cable lugs, special type, Cu with 2 long holes, double crimping



▶ Special design for mounting of 2 multi-stranded cables, e.g. to DIN EN 60228 Cl. 2



▶ With crimp markings for correct crimp positioning

Characteristics

- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer
- Flat contact surface by special pressing technique

Material

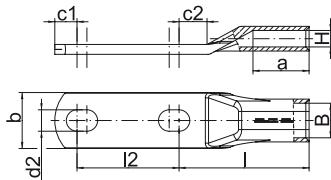
- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

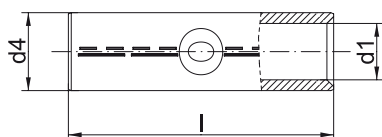
- Tool: see page 70



Nominal cross section mm ²	Size of bolt diameter	Part No.	Code	Dimension mm						H	B	Weight/100 pcs. ~ kg	Packing unit/pcs	
				a	b	d2	c1	c2	l					l2
2 x 50	2 x M 12	136DP212	22 DP	42	34	13	13.5	17.0	79	50 - 62	10.0	20	23.20	5
2 x 70		137DP212	24 DP	42	34	13	13.5	17.0	79	50 - 62	11.5	23	29.64	5
2 x 95		138DP212	29 DP	47	42	13	13.5	18.0	93	50 - 62	13.5	27	38.50	5
2 x 120		139DP212	32 DP	52	46	13	19.0	22.0	101	50 - 62	15.5	31	45.80	5



Compression joints to DIN, Cu



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 1, 2, 5 and 6 and pre-rounded sector shaped conductors
- ▶ For non-tension copper cables, e.g. to DIN 48201-1
- ▶ To DIN 46267, Part 1
- ▶ With code number for clear tool assignment
- ▶ With crimp markings for correct crimp positioning

Characteristics

- Simple and safe processing due to butt mark
- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

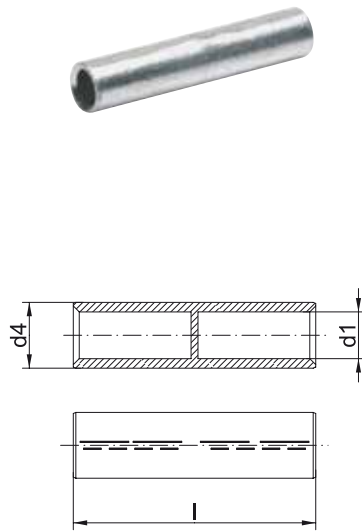
- Tool: see page 69
- Reduction sleeves for connecting unequal cross-sections can be found on page 68

Additional information

- Possible as a special bright version on request. Part Number appendix „BK“
- 10 - 800 mm² IEC-tested

Nominal cross section mm ²	Part No.	Code	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	d4	l		
6	121R	5	3.8	5.5	30	0.31	100
10	122R	6	4.5	6.0	30	0.34	100
16	123R	8	5.5	8.5	50	1.45	100
25	124R	10	7.0	10.0	50	1.77	50
35	125R	12	8.2	12.5	50	2.89	50
50	126R	14	10.0	14.5	56	4.26	50
70	127R	16	11.5	16.5	56	5.41	50
95	128R	18	13.5	19.0	70	8.62	25
120	129R	20	15.5	21.0	70	9.66	25
150	130R	22	17.0	23.5	80	14.50	10
185	131R	25	19.0	25.5	85	17.00	10
240	132R	28	21.5	29.0	90	23.41	10
300	133R	32	24.5	32.0	100	29.23	5
400	134R	38	27.5	38.5	150	74.32	5
500	135R	42	31.0	42.0	160	89.09	1
625	136R	44	34.5	44.0	160	79.10	1
800	137R	52	40.0	52.0	200	151.00	1
1000	138R	58	44.0	58.0	200	198.00	1

Compression joints, Cu



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 1, 2, 5 and 6 and pre-rounded sector shaped conductors
- ▶ For non-tension copper cables, e.g. to DIN 48201-1
- ▶ Barrier design with oil stop
- ▶ Tube dimension to DIN 46267, part 1
- ▶ With code number for clear tool assignment

Characteristics

- Easy to process due to crimp markings
- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer

Suitable for

- Non-tension connections

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

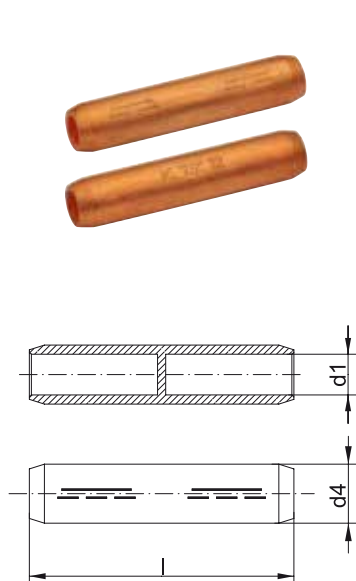
- Tool: see page 69
- Reduction sleeves for connecting unequal cross-sections can be found on page 68

Additional information

- Part Number appendix for bright version „BK“

Nominal cross section mm ²	Part No.	Code	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	d4	l		
16	523R	8	5.5	8.5	50	1.54	25
25	524R	10	7.0	10.0	50	1.84	25
35	525R	12	8.2	12.5	50	2.99	25
50	526R	14	10.0	14.5	56	4.46	25
70	527R	16	11.5	16.5	56	5.61	25
95	528R	18	13.5	19.0	70	8.88	25
120	529R	20	15.5	21.0	70	10.06	5
150	530R	22	17.0	23.5	80	14.89	5
185	531R	25	19.0	25.5	85	17.57	5
240	532R	28	21.5	29.0	90	24.23	5
300	533R	32	24.5	32.0	100	30.15	5
400	534R	38	27.5	38.5	150	75.60	5
500	535R	42	31.0	42.0	160	92.00	1

Compression joint for cable connections 10 - 30 kV, copper



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2 and pre-rounded sector shaped conductors
- ▶ For non-tension copper cables, e.g. to DIN 48201-1
- ▶ Tube dimension to DIN 46267, part 1
- ▶ For copper medium-voltage cable connections 10 - 30 kV
- ▶ With chamfered edges for reduced electrical stress in the assembly

Characteristics

- Also available as barrier design with oil stop
- Easy to process due to crimp markings
- Annealed material optimises material and crimping properties
- Simple cable entry due to internal chamfer

Suitable for

- Non-tension connections

Material

- Copper (EN13600)

Surface

- Bright

Technical instructions

- Tool: see page 69
- Reduction sleeves for connecting unequal cross-sections can be found on page 68

Additional information

- Possible as a special bright version on request. Part Number appendix „BK“

Nominal cross section mm ²	Part No.	Code	Dimension mm			Number of crimps		Weight/ 100 pcs. ~ kg	Packing unit/ pcs
			d1	d4	l	Cu (5 mm)	Cu (wide)		
Normalversion									
25	504R	12	7.5	12.5	60	2/2	1/1	4.08	10
35	505R	12	8.2	12.5	60	2/2	1/1	3.56	10
50	506R	14	10.0	14.5	65	3/3	1/1	4.90	10
70	507R	16	11.5	16.5	65	3/3	1/1	6.10	10
95	508R	18	13.5	19	90	4/4	2/2	10.98	10
120	509R	20	15.5	21	90	4/4	2/2	12.68	5
150	510R	22	17.0	23.5	105	4/4	2/2	18.09	5
185	511R	25	19.0	25.5	105	4/4	2/2	20.35	5
240	512R	28	21.5	29	125		2/2	31.64	5
300	513R	32	24.5	32	125		2/2	35.40	1
400	514R	38	27.5	38.5	160		3/3	75.42	1
Barrier version									
25	504RLD	12	7.5	12.5	60	2/2	1/1	4.08	25
35	505RLD	12	8.2	12.5	60	2/2	1/1	3.56	10
50	506RLD	14	10.0	14.5	65	3/3	1/1	4.90	10
70	507RLD	16	11.5	16.5	65	3/3	1/1	6.40	10
95	508RLD	18	13.5	19	90	4/4	2/2	10.98	10
120	509RLD	20	15.5	21	90	4/4	2/2	12.68	5
150	510RLD	22	17.0	23.5	105	4/4	2/2	18.84	5
185	511RLD	25	19.0	25.5	105	4/4	2/2	20.35	5
240	512RLD	28	21.5	29	125		2/2	31.64	5
300	513RLD	32	24.5	32	125		2/2	35.40	1
400	514RLD	38	27.5	38.5	160		3/3	75.42	1

Compression joints to DIN, Cu



- ▶ For connecting copper cables to DIN 48201, Part 1
- ▶ For full tension cable connections
- ▶ To DIN 48085, Part 1
- ▶ With code number for clear tool assignment
- ▶ With crimp markings for correct crimping

Characteristics

- Easy to process due to crimp markings
- Simple and safe processing due to butt mark
- Simple cable entry due to internal chamfer

Material

- Copper (EN13600)

Surface

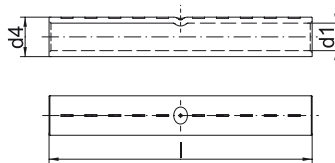
- Bright

Technical instructions

- To process item 192R use crimping die HAD45240
- Tool: see page 69

Additional information

- * = not standardised
- 16 - 70 mm² IEC-tested



Nominal cross section mm ²	Part No.	Hint	Code	Dimension mm			Number of crimps		conductor dia. mm	Weight/ 100 pcs. ~ kg	Packing unit/pcs
				d1	d4	l	Cu (5 mm)	Cu (wide)			
6	181R	*	6	3.5	6.5	65	4/4		3.00	1.4	10
10	182R		8	4.5	8.5	80	5/5		4.05	3.0	10
16	183R		8	5.5	8.5	95	5/5		5.10	2.8	10
25	184R		10	7.0	10.0	95	5/5		6.30	3.4	10
35	185R		12	8.2	12.5	95	5/5		7.50	5.6	10
50	186R		14	10.0	14.5	110	5/5		9.00	8.6	10
70	187R		16	11.5	16.5	110	5/5		10.50	10.8	10
95	188R		20	13.5	21.0	145	8/8	4/4	12.50	26.2	10
120	189R		22	15.0	23.5	160	8/8	4/4	14.00	36.8	10
150	190R		25	16.5	25.5	180	8/8	4/4	15.70	47.5	5
185	191R	*	32	18.5	31.5	260		5/5	17.50	118.0	5
240	192R	*	34	21.0	34.5	310		6/6	20.20	163.0	5
300	193R	*	38	23.5	38.5	360		7/7	22.50	235.0	1



Reduction sleeves, Cu



- ▶ For multi-stranded, round conductors e.g. to DIN EN 60228 Cl. 2
- ▶ For non-tension copper cables, e.g. to DIN 48201-1
- ▶ For connecting different conductor cross-sections
- ▶ For use in DIN compression joints and connectors, standard type

Characteristics

- Simple cable entry due to internal chamfer

Suitable for

- For non-tension compression joints

Material

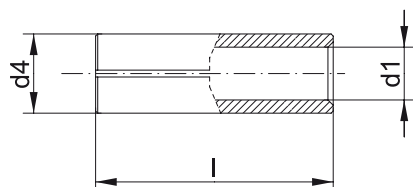
- Copper (EN13600)

Surface

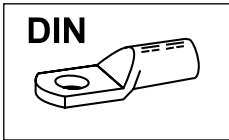
- Bright

Technical instructions

- Refer to the installation instructions in the technical appendix on page i-7



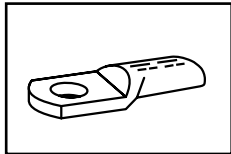
Part No.	Nominal cross section mm ² from	Nominal cross section mm ² to	Dimension mm			Weight/100 pcs. ~ kg	Packing unit/pcs
			d1	d4	l		
RH2510	25	10	4.6	6.6	25	0.358	25
RH2516	25	16	5.5	6.6	25	0.350	25
RH3510	35	10	4.5	8.0	25	0.707	25
RH3516	35	16	5.5	8.0	25	0.570	25
RH3525	35	25	7.0	8.0	25	0.253	25
RH5016	50	16	5.5	9.5	33	1.326	25
RH5025	50	25	7.0	9.5	33	0.923	25
RH5035	50	35	8.5	9.5	33	0.404	25
RH7025	70	25	7.0	11.0	33	1.580	25
RH7035	70	35	8.5	11.0	33	1.102	25
RH7050	70	50	10.0	11.0	33	0.486	25
RH9535	95	35	8.5	13.0	45	2.940	25
RH9550	95	50	10.0	13.0	45	2.136	25
RH9570	95	70	11.5	13.0	45	1.100	25
RH12050	120	50	10.0	15.0	45	3.802	25
RH12070	120	70	11.5	15.0	45	2.874	25
RH12095	120	95	13.5	15.0	45	1.340	25
RH15070	150	70	11.5	16.5	53	5.008	5
RH15095	150	95	13.5	16.5	53	3.212	5
RH150120	150	120	15.5	16.5	53	1.248	5
RH18595	185	95	13.5	18.5	53	5.824	5
RH185120	185	120	15.5	18.5	53	3.756	5
RH185150	185	150	17.0	18.5	53	1.660	5
RH240120	240	120	15.5	21.0	55	7.412	5
RH240150	240	150	17.0	21.0	55	5.740	5
RH240185	240	185	19.0	21.0	55	3.036	5
RH300150	300	150	17.0	24.0	58	11.200	5
RH300185	300	185	19.0	24.0	58	8.390	5
RH300240	300	240	21.5	24.0	58	4.526	5
RH400240	400	240	21.5	27.0	80	14.270	5
RH400300	400	300	24.5	27.0	80	8.800	5



Tool application chart

Compression cable lugs and compression joints

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	6 - 50	K05D		230		⬡
	6 - 120	K06D		231		⬡
	25 - 150	K09D		233		⬡
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	6 - 25	K50		235	312	⬡
		EK50ML		244	312	⬡
	6 - 120	K354		236	316	⬡
	6 - 185	K18		238	324	⬡
	6 - 300	K22		240	329	⬡
Hand hydraulic crimping tools	6 - 185	HK6018		280	324	⬡
		HK60UNV	+UA18	465	324	⬡
	6 - 300	HK6022		282	329	⬡
		HK60UNV	+UA22	465	329	⬡
	10 - 300	HK12030		286	334	⬡
		HK12042		288	334	⬡
		HK120U		290	334	⬡
	120 - 1000	HK45		309	342	⬡
Battery powered crimping tools	6 - 120	EK354ML		250	316	⬡
		EK354		256	316	⬡
	6 - 185	EK505		258	320	⬡
		EK5018		260	324	⬡
		EK60UNV	+UA18	468	324	⬡
		EKM60UNV	+UA18	467	324	⬡
	6 - 300	EK6022		264	329	⬡
		EKM6022		262	329	⬡
		EK60UNV	+UA22	468	329	⬡
		EKM60UNV	+UA22	467	329	⬡
	10 - 300	EK12032		270	334	⬡
		EK12042		272	334	⬡
		EK120U		274	334	⬡
		EK120UNV	+UA12T	469	334	⬡
		EK135FT	+UA15T	276	334	⬡
400 - 625	EK135FT		276	338	⬡	
Hydraulic crimping systems	6 - 185	THK18		294	324	⬡
	6 - 300	THK22		296	329	⬡
	10 - 625	HK252	+25A13	308	334+339	⬡
Hydraulic crimping heads	6 - 185	PK18		294	324	⬡
		PK60UNV	+UA18	466	324	⬡
	6 - 300	PK22		296	329	⬡
		PK60UNV	+UA22	466	329	⬡
	10 - 300	PK12042		300	334	⬡
		PK120U		302	334	⬡
	10 - 625	PK252	+25A13	304	334+339	⬡
	120 - 1000	PK45		306	342	⬡



Tool application chart

Double compression cable lugs

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	2x50 - 2x70	K22		240	329	○
Hand hydraulic crimping tools	2x50 - 2x70	HK6022		282	329	○
		HK60UNV	+UA22	465	329	○
	2x50 - 2x120	HK12030		286	334	○
		HK12042		288	334	○
Battery powered crimping tools	2x50 - 2x70	HK120U		290	334	○
		EK6022		264	329	○
		EKM6022		262	329	○
		EK60UNV	+UA22	468	329	○
	2x50 - 2x120	EKM60UNV	+UA22	467	329	○
		EK12032		270	334	○
		EK12042		272	334	○
		EK120U		274	334	○
		EK135FT	+UA15T	276	334	○
		EK120UNV	+UA12T	469	334	○
Hydraulic crimping systems	2x50 - 2x70	THK22		296	329	○
	2x50 - 2x120	TH120		300	334	○
		HK252	+25A13	308	334	○
Hydraulic crimping heads	2x50 - 2x70	PK22		296	329	○
		PK60UNV	+UA22	466	329	○
	2x50 - 2x120	PK12042		300	334	○
		PK120U		302	334	○
	2x50 - 2x120	PK252	+25A13	308	334	○

PUNCHED - SOLDERLESS TERMINALS MADE FROM COPPER TO DIN 46234

Unlike the tubular cable lugs, Klauke solderless terminals are punched from a sheet, bent and then hard soldered in the crimp area. The grooved profile on the inside ensures higher conductor pull-out values. This product's small dimensions make it the ideal solution for confined areas.



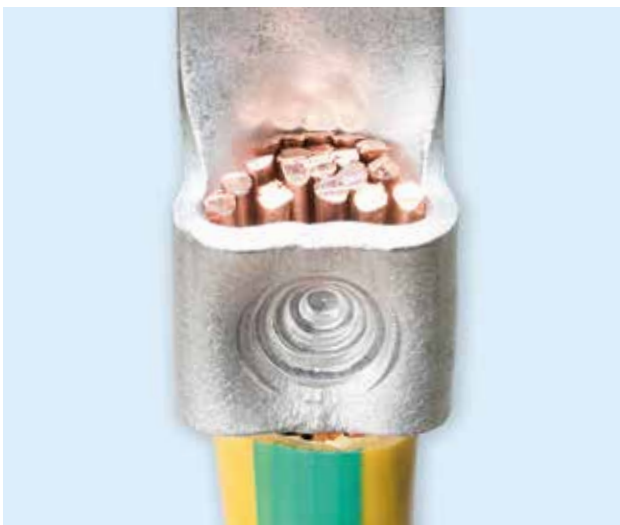
In brief

- ▶ Reliable crimping due to high-quality solder seam
- ▶ Small dimensions for confined areas
- ▶ Suitable for multi-stranded, fine-stranded and superfine-stranded conductors

▶ Hard soldered for reliable contact

The quality of Klauke cable lugs is also evident during the crimping operation: The solderless terminal always remains intact due to the high-quality solder seam. Guaranteed quality.

- Reliable contact due to high-quality solder seam and tinning
- Best possible contacting with ribbed profile
- Optimum solution for confined areas thanks to highly-compact dimensions
- Insulated and non-insulated versions



▶ Well insulated

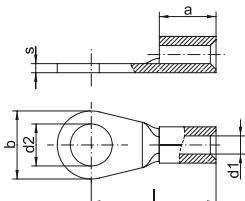
Klauke products make your day-to-day work easier. Thanks to the widened insulation, the conductor can be very conveniently inserted into our insulated solderless terminals. The insulation remains intact even after crimping, eliminating the need for retrospective insulation. Everything accomplished in one operation.

- Easy to use thanks to widened sleeve
- No additional insulation, hence fast processing
- As a fork-type, ideal for connecting meters in confined areas for example
- Easy conductor insertion thanks to widened sleeve





Solderless terminals to DIN, Cu



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ To DIN 46234
- ▶ High-quality brazing process in the crimp area



Characteristics

- Improved contact properties due to grooved profile



Material

- Copper (EN13599)



Surface

- Tin-plated to protect against corrosion



Technical instructions

- Tool: see page 82

Additional information

- * = not standardised
- 0.5 - 6 mm² not UL-tested

Nominal cross section mm ²	Nominal size to DIN	Part No.	Hint	Dimension mm						Weight/100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	l	s		
0.5 - 1	2.5 - 1	162025		5	6	1.6	2.8	11	0.8	0.060	100
	3 - 1	16203		5	6	1.6	3.2	11	0.8	0.060	100
	3.5 - 1	162035		5	6	1.6	3.7	11	0.8	0.055	100
	4 - 1	16204		5	8	1.6	4.3	12	0.8	0.070	100
	5 - 1	16205		5	10	1.6	5.3	13	0.8	0.090	100
	6 - 1	16206	*	5	11	1.6	6.5	15	0.8	0.080	100
	8 - 1	16208	*	5	14	1.6	8.4	17	0.8	0.130	100
	10 - 1	162010	*	5	18	1.6	10.5	19	0.8	0.130	100
1.5 - 2.5	3 - 2.5	16303		5	6	2.3	3.2	11	0.8	0.065	100
	4 - 2.5	16304		5	8	2.3	4.3	12	0.8	0.080	100
	3.5 - 2.5	163035		5	6	2.3	3.7	11	0.8	0.065	100
	5 - 2.5	16305		5	10	2.3	5.3	14	0.8	0.090	100
	6 - 2.5	16306		5	11	2.3	6.5	16	0.8	0.110	100
	8 - 2.5	16308		5	14	2.3	8.4	17	0.8	0.130	100
4 - 6	10 - 2.5	163010	*	5	18	2.3	10.5	19	0.8	0.160	100
	12 - 2.5	163012	*	5	18	2.3	12.5	19	0.8	0.160	100
	4 - 6	16504		6	8	3.6	4.3	14	1.0	0.140	100
	5 - 6	16505		6	10	3.6	5.3	15	1.0	0.160	100
	6 - 6	16506		6	11	3.6	6.5	16	1.0	0.170	100
	8 - 6	16508		6	14	3.6	8.4	19	1.0	0.220	100
10	10 - 6	165010		6	18	3.6	10.5	21	1.0	0.290	100
	12 - 6	165012	*	6	18	3.6	13.0	21	1.0	0.280	100
	5 - 10	16525		8	10	4.5	5.3	16	1.1	0.230	100
	6 - 10	16526		8	11	4.5	6.5	17	1.1	0.24	100
	8 - 10	16528		8	14	4.5	8.4	20	1.1	0.340	100
16	10 - 10	165210		8	18	4.5	10.5	21	1.1	0.340	100
	12 - 10	165212		8	22	4.5	13.0	23	1.1	0.420	100
	5 - 16	16535		10	11	5.8	5.3	20	1.2	0.390	100
	6 - 16	16536		10	11	5.8	6.5	20	1.2	0.380	100
	8 - 16	16538		10	14	5.8	8.4	22	1.2	0.43	100
	10 - 16	165310		10	18	5.8	10.5	24	1.2	0.500	100
	12 - 16	165312		10	22	5.8	13.0	24	1.2	0.500	100

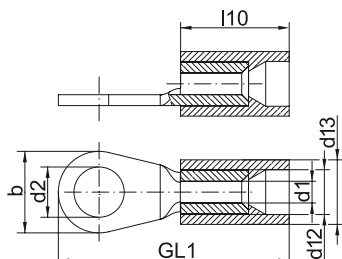
see next page

Solderless terminals to DIN, Cu

Nominal cross section mm ²	Nominal size to DIN	Part No.	Hint	Dimension mm						Weight/100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	l	s		
25	5 - 25	16545		11	12	7.5	5.3	25	1.5	0.750	100
	6 - 25	16546		11	12	7.5	6.5	25	1.5	0.750	100
	8 - 25	16548		11	16	7.5	8.4	25	1.5	0.750	100
	10 - 25	165410		11	18	7.5	10.5	26	1.5	0.750	100
	12 - 25	165412		11	22	7.5	13.0	31	1.5	0.920	100
	16 - 25	165416		11	28	7.5	17.0	35	1.5	1.320	100
35	6 - 35	16556		12	16	9.0	8.4	26	1.6	0.980	100
	8 - 35	16558		12	16	9.0	8.4	26	1.6	0.980	100
	10 - 35	165510		12	18	9.0	10.5	27	1.6	1.000	100
	12 - 35	165512		12	22	9.0	13.0	31	1.6	1.260	100
	16 - 35	165516		12	28	9.0	17.0	36	1.6	1.550	100
50	6 - 50	16566		16	18	11.0	6.5	34	1.8	1.650	100
	8 - 50	16568		16	18	11.0	8.4	34	1.8	1.650	100
	10 - 50	165610		16	18	11.0	10.5	34	1.8	1.600	100
	12 - 50	165612		16	22	11.0	13.0	36	1.8	1.800	100
	16 - 50	165616		16	28	11.0	17.0	40	1.8	2.100	100
70	6 - 70	16576		18	22	13.0	6.5	38	2.0	2.600	50
	8 - 70	16578		18	22	13.0	8.4	38	2.0	2.500	50
	10 - 70	165710		18	22	13.0	10.5	38	2.0	2.500	50
	12 - 70	165712		18	22	13.0	13.0	38	2.0	2.400	50
	16 - 70	165716		18	28	13.0	17.0	42	2.0	2.700	50
95	8 - 95	16588		20	24	15.0	8.4	42	2.5	4.300	50
	10 - 95	165810		20	24	15.0	10.5	42	2.5	4.1	50
	12 - 95	165812		20	24	15.0	13.0	42	2.5	3.900	50
	16 - 95	165816		20	28	15.0	17.0	44	2.5	4.100	50
120	8 - 120	16598		22	24	17.0	8.4	44	3.0	5.601	50
	10 - 120	165910		22	24	17.0	10.5	44	3.0	5.600	50
	12 - 120	165912		22	24	17.0	13.0	44	3.0	5.400	50
	16 - 120	165916		22	28	17.0	17.0	48	3.0	5.800	50
150	10 - 150	166010		24	30	19.0	10.5	50	3.2	7.600	50
	12 - 150	166012		24	30	19.0	13.0	50	3.2	7.600	50
	16 - 150	166016		24	30	19.0	17.0	50	3.2	7.500	50
185	12 - 185	166112		28	36	21.0	13.0	50	3.5	11.300	50
	16 - 185	166116		28	36	21.0	17.0	50	3.5	11.300	50
240	12 - 240	166212		32	38	23.5	13.0	56	4.0	15.900	25
	16 - 240	166216		32	38	23.5	17.0	56	4.0	15.900	25



Insulated solderless terminals, Cu with Easy-Entry



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ High-quality brazing process in the crimp area
- ▶ Fast preparation as no additional insulation of the crimped connection is required
- ▶ Simple processing due to crimping over the insulation
- ▶ Insulation sleeve halogen-free

Characteristics

- Insulating, halogen-free with easy-entry cable insertion
- Dimensions in tube according to DIN 46234
- Improved contact properties due to grooved profile
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material

- Copper (EN13599)
- Insulation sleeve: PA

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 84

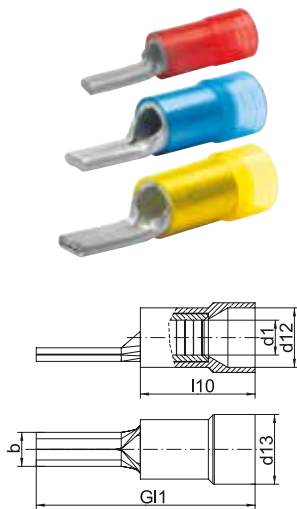
Nominal cross section mm ²	Part No.	Colour	Dimension mm							Weight 100 pcs. ~kg Cu	Weight 100 pcs. ~kg Total	Packing unit/ pcs
			b	d1	d12	d13	d2	GL1	l10			
10	6526	■	11	4.5	6.7	8.6	6.5	34.0	19.0	0.24	0.28	100
	6528	■	14	4.5	6.7	8.6	8.4	37.5	19.0	0.29	0.33	100
	65210	■	18	4.5	6.7	8.6	10.5	41.5	19.0	0.34	0.38	100
	65212	■	22	4.5	6.7	8.6	13.0	45.5	19.0	0.42	0.46	100
16	6535	■	11	5.8	7.7	9.6	5.3	39.5	20.5	0.39	0.44	100
	6536	■	11	5.8	7.7	9.6	6.5	39.5	20.5	0.38	0.43	100
	6538	■	14	5.8	7.7	9.6	8.4	41.5	20.5	0.43	0.48	100
	65310	■	18	5.8	7.7	9.6	10.5	43.5	20.5	0.50	0.55	100
	65312	■	18	5.8	7.7	9.6	13.0	50.5	20.5	0.58	0.63	100
25	6545	■	12	7.5	11.0	13.0	5.3	40.0	20.0	0.75	0.84	50
	6546	■	12	7.5	11.0	13.0	6.5	42.5	20.0	0.69	0.78	50
	6548	■	16	7.5	11.0	13.0	8.4	43.0	20.0	0.75	0.84	50
	65410	■	18	7.5	11.0	13.0	10.5	45.0	20.0	0.80	0.89	50
	65412	■	22	7.5	11.0	13.0	13.0	51.0	20.0	0.92	1.00	50
	65416	■	28	7.5	11.0	13.0	17.0	59.0	20.0	1.32	1.40	50
35	6556	■	16	9.0	12.7	15.0	6.5	44.0	22.5	1.01	1.14	50
	6558	■	16	9.0	12.7	15.0	8.4	44.5	22.5	0.98	1.10	50
	65510	■	18	9.0	12.7	15.0	10.5	46.5	22.5	1.00	1.12	50
	65512	■	22	9.0	12.7	15.0	13.0	52.5	22.5	1.26	1.38	50
	65516	■	28	9.0	12.7	15.0	17.0	54.5	22.5	1.55	1.67	50
50	6566	■	18	11.0	15.4	18.0	6.5	54.5	27.5	1.65	1.90	50
	6568	■	18	11.0	15.4	18.0	8.4	60.5	27.5	1.65	1.90	50
	65610	■	18	11.0	15.4	18.0	10.5	60.5	27.5	1.60	1.85	50
	65612	■	22	11.0	15.4	18.0	13.0	60.5	27.5	1.80	2.05	50
	65616	■	28	11.0	15.4	18.0	17.0	67.5	27.5	2.10	2.35	50

see next page

Insulated solderless terminals, Cu with Easy-Entry

Nominal cross section mm ²	Part No.	Colour	Dimension mm							Weight 100 pcs. ~kg Cu	Weight 100 pcs. ~kg Total	Packing unit/ pcs
			b	d1	d12	d13	d2	GI1	l10			
70	6576	Yellow	22	13.0	17.4	20.0	6.5	61.5	30.5	2.60	2.90	50
	6578	Yellow	22	13.0	17.4	20.0	8.4	61.5	30.5	2.50	2.80	50
	65710	Yellow	22	13.0	17.4	20.0	10.5	66.5	30.5	2.50	2.80	50
	65712	Yellow	22	13.0	17.4	20.0	13.0	66.5	30.5	2.40	2.70	50
	65716	Yellow	28	13.0	17.4	20.0	17.0	70.5	30.5	2.70	3.00	50
95	65810	Red	24	15.0	20.5	23.5	10.5	70.0	34.0	4.10	4.50	25
	65812	Red	24	15.0	20.5	23.5	13.0	70.0	34.0	3.90	4.40	25
	65816	Red	28	15.0	20.5	23.5	17.0	76.0	34.0	4.10	4.50	25
120	65910	Dark Blue	24	17.0	23.5	26.7	10.5	79.0	36.0	5.60	6.10	25
	65912	Dark Blue	24	17.0	23.5	26.7	13.0	82.0	36.0	5.40	5.90	25
	65916	Dark Blue	28	17.0	23.5	26.7	17.0	90.0	36.0	5.80	6.30	25
150	66010	Yellow	30	19.0	26.0	29.2	10.5	80.0	39.0	7.60	8.40	25
	66012	Yellow	30	19.0	26.0	29.2	13.0	83.0	39.0	7.60	8.40	25
	66016	Yellow	30	19.0	26.0	29.2	17.0	83.0	39.0	7.50	8.30	25

Insulated pin terminals, Cu with Easy-Entry



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ High-quality brazing process in the crimp area
- ▶ Fast preparation as no additional insulation of the crimped connection is required
- ▶ Insulation sleeve halogen-free

Characteristics

- Insulating, halogen-free with easy-entry cable insertion
- Improved contact properties due to grooved profile
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material

- Copper (EN13599)
- Insulation sleeve: PA

Surface

- Tin-plated to protect against corrosion

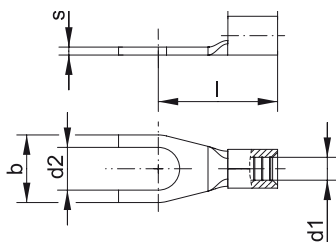
Technical instructions

- Tool: see page 84

Nominal cross section mm ²	Part No.	Colour	Dimension mm						Weight 100 pcs. ~kg Cu	Weight 100 pcs. ~kg Total	Packing unit/ pcs
			b	d1	d12	d13	GI1	l10			
10	ST1716IS	Red	4.3	4.3	7.4	9.4	33.0	19.0	0.27	0.31	100
16	ST1717IS	Dark Blue	5.5	5.4	8.6	10.6	38.0	20.0	0.39	0.44	100
25	ST1718IS	Yellow	6.8	6.7	12.5	14.5	43.5	23.5	0.63	0.73	50
35	ST1719IS	Red	8.0	8.2	14.0	16.4	51.5	27.5	1.17	1.34	50
50	ST1720IS	Dark Blue	9.5	9.5	15.5	18.0	59.0	33.0	1.79	2.10	50
70	ST1721IS	Yellow	11.0	11.2	18.0	20.5	69.0	38.0	2.92	3.20	50
95	ST1722IS	Red	12.5	13.5	20.7	23.5	71.0	40.0	4.30	4.70	25



Solderless terminals, Cu, fork type



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ Dimensions in tube to 6 mm² to DIN 46234
- ▶ Simple fork-type mounting
- ▶ High-quality brazing process in the crimp area



Characteristics

- Improved contact properties due to grooved profile



Material

- Copper (EN13599)



Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 82

Additional information

- 0.5 - 6 mm² not UL-certified

Nominal cross section mm ²	Nominal size to DIN	Part No.	Dimension mm						Weight 100 pcs. ~kg	Packing unit/ pcs
			a	b	d1	d2	l	s		
0.5 - 1	3 - 1	1620C3	5.0	6.0	1.6	3.2	11.0	0.8	0.060	100
	3.5 - 1	1620C35	5.0	6.0	1.6	3.7	11.0	0.8	0.060	100
	4 - 1	1620C4	5.0	6.8	1.6	4.3	12.0	0.8	0.070	100
	5 - 1	1620C5	5.0	10.0	1.6	5.3	13.0	0.8	0.090	100
	6 - 1	1620C6	5.0	11.0	1.6	6.5	15.0	0.8	0.080	100
1.5 - 2.5	3 - 2.5	1630C3	5.0	5.5	2.3	3.2	13.8	0.8	0.065	100
	3.5 - 2.5	1630C35	5.0	6.0	2.3	3.7	11.0	0.8	0.065	100
	4 - 2.5	1630C4	5.0	6.8	2.3	4.3	12.0	0.8	0.080	100
	5 - 2.5	1630C5	5.0	10.0	2.3	5.3	14.0	0.8	0.090	100
	6 - 2.5	1630C6	5.0	11.0	2.3	6.5	16.0	0.8	0.110	100
4 - 6	4 - 6	1650C4	6.0	8.0	3.6	4.3	14.0	1.0	0.140	100
	5 - 6	1650C5	6.0	10.0	3.6	5.3	15.0	1.0	0.160	100
	6 - 6	1650C6	6.0	11.0	3.6	6.5	16.0	1.0	0.170	100
	8 - 6	1650C8	6.0	14.0	3.6	8.4	19.0	1.0	0.220	100
10	5 - 10	1652C5	10.0	10.0	4.3	5.3	19.0	1.0	0.240	100
	6 - 10	1652C6	10.0	11.0	4.3	6.4	21.0	1.0	0.260	100
16	6 - 16	1653C6	11.5	11.0	5.8	6.4	24.0	1.0	0.350	100

Pin terminals to DIN, Cu



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ Nominal cross-sections 0.5 - 6 mm² to DIN 46230
- ▶ High-quality brazing process in the crimp area

Characteristics

- Improved contact properties due to grooved profile

Material

- Copper (EN13599)

Surface

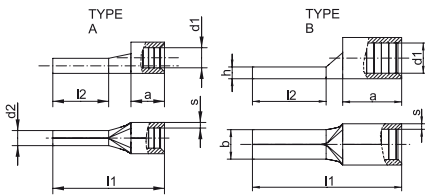
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 82

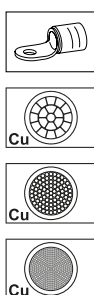
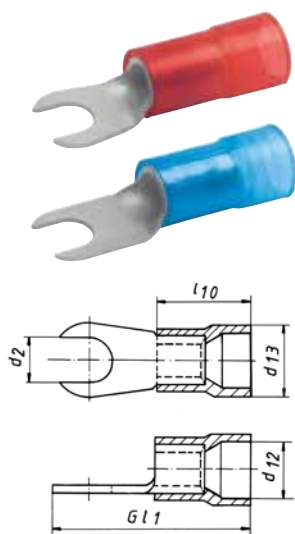
Additional information

- * = not standardised
- 0.5 - 6 mm² not UL-tested



Nominal cross section mm ²	Nominal size to DIN	Part No.	Typ	Hint	Dimension mm								Weight 100 pcs. ~kg	Packing unit/pcs
					a	b	d1	d2	l1	l2	s	h		
0.5 - 1	1	ST1705	A		5.0	--	1.6	1.9	17.0	10	0.8	--	0.060	100
1.5 - 2.5	2.5	ST1710	A		5.0	--	2.3	1.9	17.0	10	0.8	--	0.072	100
4 - 6	6	ST1715	A		6.0	--	3.6	2.7	20.0	11	1.0	--	0.160	100
10	--	ST1716	B	*	10.0	4.3	4.3	--	24.5	11	1.0	2.0	0.270	100
16	--	ST1717	B	*	11.5	5.8	5.4	--	29.5	15	1.0	2.0	0.390	100
25	--	ST1718	B	*	13.5	6.8	6.8	--	33.5	15	1.2	2.4	0.630	100
35	--	ST1719	B	*	16.0	8.0	8.2	--	40.5	20	1.5	3.2	1.170	50
50	--	ST1720	B	*	19.0	9.5	9.5	--	45.0	20	1.8	3.6	1.790	50
70	--	ST1721	B	*	24.0	11.0	11.2	--	55.0	23	2.0	4.0	2.920	50
95	--	ST1722	B	*	24.0	12.5	13.5	--	55.0	23	2.5	5.0	4.300	50

Insulated solderless terminals for meter connections, Cu, fork type



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ Special design for meter connection
- ▶ High-quality brazing process in the crimp area
- ▶ Fast preparation as no additional insulation of the crimped connection is required
- ▶ Insulation sleeve halogen-free

Characteristics

- Improved contact properties due to grooved profile
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material

- Copper (EN13599)
- Insulation sleeve: PA

Surface

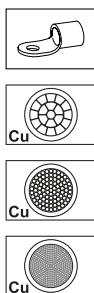
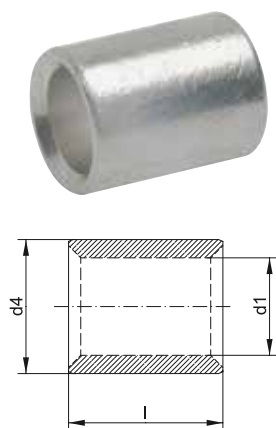
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 84

Nominal cross section mm ²	Part No.	Colour	Dimension mm					Gewicht 100 St. ~kg Cu	Gewicht 100 St. ~kg Ges.	Packing unit/ pcs
			d12	d13	d2	G l 1	l10			
10	652C5	■	7.0	9.6	5.3	33.5	19.0	0.24	0.28	100
	652C6	■	7.0	9.6	6.4	33.5	19.0	0.26	0.30	100
16	653C6	■	8.6	10.6	6.4	37.5	20.5	0.35	0.40	100

Solderless connectors to DIN, Cu, short type



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ To DIN 46341, Part 1, Form A
- ▶ Ideal for connecting differing conductor cross-sections

Characteristics

- Simple cable entry due to internal chamfer
- Annealed material optimises material and crimping properties

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

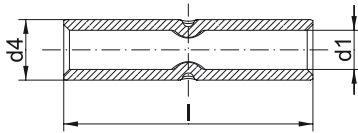
- Tool: see page 82

Additional information

- The sum of the single conductor cross sections must be within the specified cross section range.

Nominal cross section mm ²	Nominal size to DIN	Part No.	Dimension mm			Weight 100 pcs. ~kg	Packing unit/pcs
			d1	d4	l		
> 0.5 - 1	1	1620K	1.8	3.3	8	0.045	100
> 1 - 2.5	2.5	1630K	2.5	4.1	8	0.055	100
> 2.5 - 6	6	1650K	3.8	5.8	9	0.090	100
> 6 - 10	10	1652K	4.7	6.9	10	0.170	100
> 10 - 16	16	1653K	5.8	8.4	11	0.260	100
> 16 - 25	25	1654K	7.7	10.7	14	0.510	100
> 25 - 35	35	1655K	9.2	12.4	16	0.730	100
> 35 - 50	50	1656K	11.2	14.8	19	1.200	100
> 50 - 70	70	1657K	13.2	17.2	19	1.530	50
> 70 - 95	95	1658K	15.3	20.3	20	2.370	50
> 95 - 120	120	1659K	16.8	22.8	22	3.450	50
> 120 - 150	150	1660K	19.3	25.7	26	5.060	50

Solderless connectors to DIN, Cu, long type



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ To DIN 46341, Part 1, Form B
- ▶ Simple and safe processing due to butt mark



Characteristics

- Simple cable entry due to internal chamfer
- Annealed material optimises material and crimping properties



Material

- Copper (EN13600)



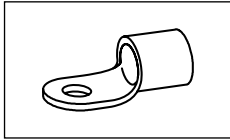
Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 82

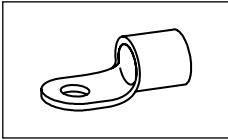
Nominal cross section mm ²	Nominal size to DIN	Part No.	Dimension mm			Weight 100 pcs. ~kg	Packing unit/pcs
			d1	d4	l		
> 0.5 - 1	1	1620L	1.8	3.3	15	0.08	100
> 1.5 - 2.5	2.5	1630L	2.5	4.1	15	0.10	100
> 4 - 6	6	1650L	3.8	5.8	15	0.19	100
> 10	10	1652L	4.7	6.9	21	0.36	100
> 16	16	1653L	5.8	8.4	26	0.62	100
> 25	25	1654L	7.7	10.7	29	1.11	100
> 35	35	1655L	9.2	12.4	32	1.50	100
> 50	50	1656L	11.2	14.8	38	2.44	100
> 70	70	1657L	13.2	17.2	42	3.54	50
> 95	95	1658L	15.3	20.3	48	5.87	50
> 120	120	1659L	16.8	22.8	52	8.46	50
> 150	150	1660L	19.3	25.7	56	10.86	50



Tool application chart













**Solderless terminals to DIN 46234, pin terminals to DIN 46230,
solderless connectors to DIN 46341**
Part 1 of 2

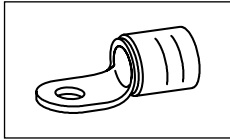
Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0,5 - 16	K25		225		
	16 - 95	K95		225		
		TK95		225		
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	0,5 - 10	K50		235	312	
		EK50ML		244	312	
		K507		234		
	6 - 35	K354		236	316	
	10 - 70	K18		238	324	
		K22		240	329	
Hand hydraulic crimping tools	10 - 70	HK6018		280	324	
		HK60UNV	+UA18	465	324	
		HK6022		282	329	
		HK60UNV	+UA22	465	329	
	10 - 150	HK12030		286	335	
		HK12042		288	335	
		HK120U		290	335	
Battery powered crimping tools	0,5 - 10	EK1550ML		248	312	
	6 - 35	EK354ML		250	316	
		EK354		256	316	
	6 - 95	EK30IDML		247		
	10 - 50	EK505		258	320	
	10 - 70	EK5018		260	324	
		EK60UNV	+UA18	468	324	
		EKM60UNV	+UA18	467	324	
		EK6022		264	329	
		EKM6022		262	329	
		EK60UNV	+UA22	468	329	
		EKM60UNV	+UA22	467	329	
	10 - 240	EKM60ID		268		
	10 - 150	EK12032		270	335	
		EK12042		272	335	
		EK120U		274	335	
		EK135FT	+UA15T	276	335	
EK120UNV		+UA12T	469	335		



Tool application chart

**Solderless terminals to DIN 46234, pin terminals to DIN 46230,
solderless connectors to DIN 46341**
Part 2 of 2

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Hydraulic crimping systems	10 - 70	THK18		294	324	
		THK22		296	329	
	10 - 150	THK120		300	335	
	10 - 240	HK252	+25A13	308	335 + 340	
Hydraulic crimping heads	10 - 70	PK18		294	324	
		PK60UNV	+UA18	466	324	
		PK22		296	329	
		PK60UNV	+UA22	466	329	
	10 - 240	PK60ID		299		
	10 - 150	PK12042		300	335	
		PK120U		302	335	
	10 - 240	PK252	+25A13	304	335 + 340	



Tool application chart

Isolierte Quetschkabelschuhe
Isolierte Stiftkabelschuhe

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	10 - 16	K16		220		○
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	10 - 16	K50		235	313	○
		EK50ML		244	313	○
		K354		236	316	○
	10 - 50	K18		238	324	☾
	10 - 70	K22		240	329	☾
Hand hydraulic crimping tools	10 - 50	HK6018		280	324	☾
		HK60UNV	+UA18	465	324	☾
	10 - 70	HK6022		282	329	☾
		HK60UNV	+UA22	465	329	☾
	10 - 95	HK12030		286	335	☾
		HK12042		288	335	☾
		HK120U		290	335	☾
Battery powered crimping tools	10 - 16	EK1550ML		248	313	○
		EK354ML		250	316	☾
		EK354		256	316	☾
	10 - 50	EK5018		260	324	☾
		EK60UNV	+UA18	468	324	☾
		EKM60UNV	+UA18	467	324	☾
	10 - 70	EK6022		264	329	☾
		EKM6022		262	329	☾
		EK60UNV	+UA22	468	329	☾
		EKM60UNV	+UA22	467	329	☾
		10 - 95	EK12032		270	335
	EK12042			272	335	☾
	EK120U			274	335	☾
	EK135FT		+UA15T	276	335	☾
	EK120UNV		+UA12T	469	335	☾
Hydraulic crimping systems	10 - 50	THK18		294	324	☾
	10 - 70	THK22		296	329	☾
	10 - 95	THK120		300	335	☾
	10 - 150	HK252	+25A13	308	335 + 340	☾
Hydraulic crimping heads	10 - 50	PK18		294	324	☾
		PK60UNV	+UA18	466	324	☾
	10 - 70	PK22		296	329	☾
		PK60UNV	+UA22	466	329	☾
	10 - 95	PK12042		300	335	☾
		PK120U		302	335	☾
	10 - 150	PK252	+25A13	304	335 + 340	☾



COMPENSATING - SLEEVES FOR COPPER SECTOR-SHAPED AND COMPACTED CONDUCTORS

With the right sleeve, copper sector-shaped conductors are easy to crimp all the way round and can then be conveniently inserted into the cable lug. Klauke sleeves for compacted conductors compensate the difference between the compacted conductor and cable lug - ensuring reliable connections.



In brief

- ▶ For round crimping sector-shaped conductors
- ▶ Brings compacted conductors to the required volume
- ▶ Good conductivity due to high-quality copper
- ▶ Available for tubular cable lugs



Note: The sleeves for sector-shaped conductors must be crimped with pre-rounding dies.

► Filled in two steps

Making it easy for you: Use the Klauke sleeves to bring compacted conductors to the required volume in just two work steps: Simply attach the sleeve to the stripped conductor and insert it into the appropriate cable lug - done.

No additional tools and no special solutions required.

- Simple filling of compacted conductors
- For nominal cross-sections of up to 400 mm²
- High-quality material reduces contact resistance
- No special solutions required: existing tool can be used for reliable crimping

► Pre-rounded sector-shaped conductors

Pre-rounds 3 and 4-sector-shaped conductors made of copper.

- For pre-rounding of sector-shaped conductors
- Suitable for 3- and 4-sector-shaped conductors at angles of 120° and 90°
- Nominal cross-section up to 240 mm²
- No splicing of conductors
- No special cable lugs required
- Lower storage costs





Sleeves for compacted conductors, for tubular cable lugs and connector standard type



- ▶ For multi-stranded, compacted conductors e.g. to DIN EN 60228 Cl. 2
- ▶ Allows the use of Klauke tubular cable lugs and connectors, standard type, on compacted conductors

Characteristics

- Annealed material optimises material and crimping properties

Material

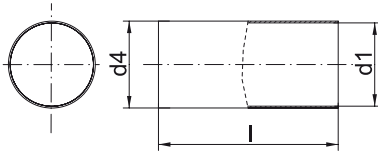
- Copper (HCP)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Refer to the installation instructions in the technical appendix on page i-7



Nominal cross section mm ²	Part No.	Dimension mm			Weight 100 pcs. ~kg	Packing unit/pcs
		d1	d4	l		
16	VHR16	5.0	5.3	11	0.024	100
25	VHR25	6.4	6.7	14	0.038	100
35	VHR35	7.7	8.2	15	0.083	100
50	VHR50	9.0	9.5	18	0.118	50
70	VHR70	10.6	11.2	19	0.173	50
95	VHR95	12.4	13.0	21	0.223	50
120	VHR120	13.9	14.5	22	0.261	50
150	VHR150	15.4	16.0	26	0.342	25
185	VHR185	17.6	18.2	26	0.396	25
240	VHR240	19.9	20.5	30	0.508	25
300	VHR300	22.4	23.0	38	0.723	10
400	VHR400	25.4	26.2	38	1.108	10

Sleeves for sector shaped conductors, 3-core cable



- ▶ For multi-stranded, sector shaped conductors, e.g. to DIN EN 60228
- ▶ For tubular cable lugs and connectors, standard version
- ▶ To simplify pre-rounding of 3-core cables (120° angle)
- ▶ Prevents sector shaped conductors from de-stranding during pre-rounding

Characteristics

- Annealed material optimises material and crimping properties

Material

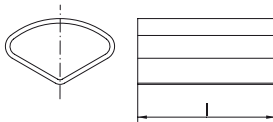
- Copper (HCP)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- For round crimping dies, see „Crimping dies“
- Refer to the installation instructions in the technical appendix on page i-7



Nominal cross section mm ²	Part No.	Dimension mm für l	Weight 100 pcs. ~kg	Packing unit/pcs
Standard type				
35	VHR353	14	0.08	100
50	VHR503	17	0.17	50
70	VHR703	18	0.29	50
95	VHR953	22	0.45	50
120	VHR1203	23	0.49	50
150	VHR1503	25	0.58	25
185	VHR1853	25	0.80	25
240	VHR2403	30	1.04	25



Sleeves for sector shaped conductors, 3-core cable



- ▶ For multi-stranded, sector shaped conductors, e.g. to DIN EN 60228
- ▶ For DIN compression cable lugs and connectors
- ▶ To simplify pre-rounding of 3-core cables (120° angle)
- ▶ Prevents sector shaped conductors from de-stranding during pre-rounding

Characteristics

- Annealed material optimises material and crimping properties

Material

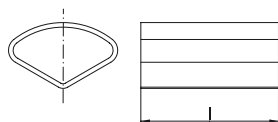
- Copper (HCP)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- For round crimping dies, see „Crimping dies“
- Refer to the installation instructions in the technical appendix on page i-7



Nominal cross section mm ²	Part No.	Dimension mm für l	Weight 100 pcs. ~kg	Packing unit/pcs
DIN version				
35	VHD353	17,5	0.11	100
50	VHD503	25,0	0.26	50
70	VHD703	25,0	0.39	50
95	VHD953	32,0	0.66	50
120	VHD1203	32,0	0.68	50
150	VHD1503	32,0	0.74	25
185	VHD1853	35,0	1.13	25
240	VHD2403	35,0	1.22	25

Sleeves for sector shaped conductors, 4-core cable



- ▶ For multi-stranded, sector shaped conductors, e.g. to DIN EN 60228
- ▶ For tubular cable lugs and connectors, standard version and DIN compression cable lugs and connectors
- ▶ To simplify pre-rounding of 4-core cables (90° angle)
- ▶ Prevents sector shaped conductors from de-stranding during pre-rounding

Characteristics

- Annealed material optimises material and crimping properties

Material

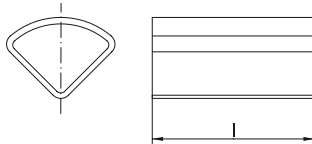
- Copper (HCP)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Refer to the installation instructions in the technical appendix on page i-7
- For round crimping dies, see „Crimping dies“



Nominal cross section mm ²	Part No.	Dimension mm für l	Weight 100 pcs. ~kg	Packing unit/pcs
Standard type				
35	VHR354	14	0.13	100
50	VHR504	17	0.17	50
70	VHR704	18	0.28	50
95	VHR954	22	0.40	50
120	VHR1204	23	0.51	50
150	VHR1504	25	0.57	25
185	VHR1854	25	0.78	25
240	VHR2404	30	0.85	25
DIN version				
35	VHD354	17.5	0.11	100
50	VHD504	25.0	0.25	50
70	VHD704	25.0	0.38	50
95	VHD954	32.0	0.63	50
120	VHD1204	32.0	0.71	50
150	VHD1504	32.0	0.73	25
185	VHD1854	35.0	1.09	25
240	VHD2404	35.0	1.13	25

RELIABLE - ALUMINIUM COMPRESSION CABLE LUGS AND CONNECTORS TO DIN

Light and extremely reliable: Klauke aluminium compression cable lugs are both. Contact grease breaks down the oxidation layer, high-quality tinning facilitates the contact with copper in dry environments. For the toughest demands, all cable lugs and most connectors are IEC-tested for safety. We offer a solution for practically every problem.



In brief

- ▶ Aluminium cable lugs and connectors according to and based on DIN standards
- ▶ Tested to the stringent IEC 61238-1
- ▶ Appropriate solutions to 30 kV
- ▶ Also for power lines and conductor wires
- ▶ Tinned and non-tinned versions available

► Deep drawn

Deep-drawn connectors are produced with barrier and precisely to DIN 46329. Thanks to the special production method, there is absolutely no ingress or escaping of liquids through the cable lug flange.

- Barrier design with oil stop
- Filled with contact grease as standard
- In the tinned version, also suitable for connecting to copper in dry environments
- For moist environments, we recommend Klauke connectors made from aluminium/copper

► Same excellent quality

Because we at Klauke have our own manufacturing facilities, our products are always the same consistently high quality. No matter which cable lug or connector you need, the Klauke system guarantees you the best results.

- Constant qualities in many forms
- Connections according to or based on DIN standards
- Simple processing with DIN hexagonal crimping or optionally EKM60ID
- Guaranteed safety through IEC 61238-1 tests



► Flexibility in power line construction

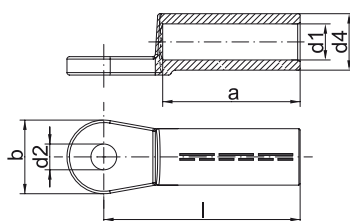
In power line construction too, Klauke products provide the flexible and reliable solution.

For special solutions, contact us directly. We can make them for you.





Compression cable lugs to DIN, Al



- ▶ For non-tension connections of aluminium conductors to DIN EN 60228 and aluminium cables to DIN EN 50182
- ▶ For pre-rounded sector shaped conductors
- ▶ To DIN 46329
- ▶ With code number for clear tool assignment for clear tool assignment
- ▶ Filled with contact grease for optimum crimp characteristics

Characteristics

- Barrier design with oil stop
- Optional tin-plated (20 µm) version to connect copper bus bars in dry indoor areas
- Simple and safe connection due to flat contact surfaces and internal chamfer
- Unique tool assignment due to DIN die coding

Material

- E-aluminium

Surface

- Bright

Technical instructions

- Tool: see page 103



Additional information

- Part Number appendix for tinned version „V“
- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded
- 70 - 240 mm² UL-tested (tin-plated version)
- * = not standardised



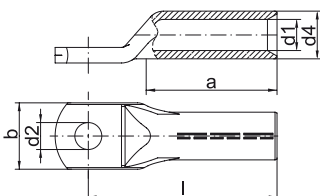
Size of bolt dia.	Part No.	Nominal cross section mm ²		Hint	Code	Dimension mm						Number of crimps		Weight 100 pcs. ~kg	Packing unit/pcs
		rm/sm	re/se			a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)		
M 8	263R8	16	25	*	12	30	20	5.8	8.4	12	50	4	2	1.20	4
M 10	263R10	16	25	*	12	30	20	5.8	10.5	12	50	4	2	1.20	4
M 8	264R8	25	35		12	30	25	6.8	8.4	12	50	4	2	1.30	4
M 10	264R10	25	35		12	30	25	6.8	10.5	12	50	4	2	1.24	4
M 12	264R12	25	35		12	30	25	6.8	13.0	12	50	4	2	1.22	4
M 8	265R8	35	50		14	42	25	8.0	8.4	14	62	5	2	2.50	4
M 10	265R10	35	50		14	42	25	8.0	10.5	14	62	5	2	1.98	4
M 12	265R12	35	50		14	42	25	8.0	13.0	14	62	5	2	2.50	4
M 8	266R8	50	70		16	42	25	9.8	8.4	16	62	5	2	2.75	4
M 10	266R10	50	70		16	42	25	9.8	10.5	16	62	5	2	2.70	4
M 12	266R12	50	70		16	42	25	9.8	13.0	16	62	5	2	2.65	4
M 8	267R8	70	95		18	52	25	11.2	8.4	18.5	72	6	3	3.45	4
M 10	267R10	70	95		18	52	25	11.2	10.5	18.5	72	6	3	3.80	4
M 12	267R12	70	95		18	52	25	11.2	13.0	18.5	72	6	3	3.35	4
M 10	268R10	95	120		22	56	25	13.2	10.5	22	75	6	3	6.90	4
M 12	268R12	95	120		22	56	25	13.2	13.0	22	75	6	3	4.92	4
M 16	268R16	95	120	*	22	56	25	13.2	17.0	22	75	6	3	6.00	4
M 10	269R10	120	150		22	56	30	14.7	10.5	23	80	6	3	5.95	4
M 12	269R12	120	150		22	56	30	14.7	13.0	23	80	6	3	5.84	4
M 16	269R16	120	150		22	56	30	14.7	17.0	23	80	6	3	6.60	4
M 10	270R10	150	185		25	60	30	16.3	10.5	25	90	6	3	8.50	4

Compression cable lugs to DIN, Al

Size of bolt dia.	Part No.	Nominal cross section mm ²		Hint	Code	Dimension mm						Number of crimps		Weight 100 pcs. ~kg	Packing unit/pcs
		rm/sm	re/se			a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)		
M 12	270R12	150	185		25	60	30	16.3	13.0	25	90	6	3	7.73	4
M 16	270R16	150	185		25	60	30	16.3	17.0	25	90	6	3	7.60	4
M 10	271R10	185	240		28	60	30	18.3	10.5	28.5	91	6	3	11.00	4
M 12	271R12	185	240		28	60	30	18.3	10.5	28.5	91	6	3	9.88	4
M 16	271R16	185	240		28	60	30	18.3	17.0	28.5	91	6	3	10.10	4
M 20	271R20	185	240	*	28	60	30	18.3	21.0	28.5	91	6	3	10.00	4
M 10	272R10	240	300	*	32	70	38	21.0	10.5	32	103	8	3	15.50	4
M 12	272R12	240	300		32	70	38	21.0	13.0	32	103	8	3	13.80	4
M 16	272R16	240	300		32	70	38	21.0	17.0	32	103	8	3	13.48	4
M 20	272R20	240	300		32	70	38	21.0	21.0	32	103	8	3	15.00	4
M 12	273R12	300	--		34	70	38	23.3	13.0	34	103	8	3	17.60	1
M 16	273R16	300	--		34	70	38	23.3	17.0	34	103	8	3	17.28	1
M 20	273R20	300	--		34	70	38	23.3	21.0	34	103	8	3	17.40	1
M 12	274R12	400	--		38	73	38	26.0	13.0	38.5	116	--	4	38.00	1
M 16	274R16	400	--		38	73	38	26.0	17.0	38.5	116	--	4	37.40	1
M 20	274R20	400	--		38	73	38	26.0	21.0	38.5	116	--	4	40.20	1
M 12	275R12	500	--		44	79	44	29.0	13.0	44	122	--	4	43.70	1
M 16	275R16	500	--		44	79	44	29.0	17.0	44	122	--	4	43.30	1
M 20	275R20	500	--		44	79	44	29.0	21.0	44	122	--	4	43.00	1



Compression cable lugs, Al



- ▶ For non-tension connections of aluminium conductors to DIN EN 60228 and aluminium cables to DIN EN 50182
- ▶ For pre-rounded sector shaped conductors
- ▶ Tube dimension to DIN 46329
- ▶ With code number for clear tool assignment
- ▶ Filled with contact grease for optimum crimp characteristics

Characteristics

- Easy to process due to crimp markings
- Simple and safe connection due to flat contact surfaces and internal chamfer

Material

- E-aluminium

Surface

- Bright

Technical instructions

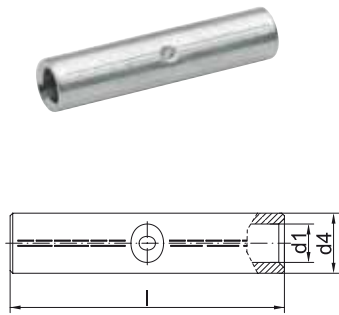
- Tool: see page 103

Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded
- 16 - 400 mm² IEC-tested

Size of bolt dia.	Part No.	Nominal cross section mm ²		Code	Dimension mm						Number of crimps		Weight 100 pcs. ~kg	Packing unit/pcs
		rm/sm	re/se		a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)		
M 6	202R6	10	16	10	32	16	5.0	6.5	10	52	4	2	0.86	25
M 8	202R8	10	25	10	32	18	5.0	8.5	10	52	4	2	0.88	25
	203R8	16	25	12	32	18	5.8	8.5	12	52	4	2	1.37	10
M 10	203R10	16	25	12	32	18	5.8	10.5	12	52	4	2	1.39	10
M 8	204R8	25	35	12	38	18	6.8	8.5	12	60	4	2	1.41	10
M 10	204R10	25	35	12	38	18	6.8	10.5	12	60	4	2	1.46	10
	205R10	35	50	14	42	21	8.2	10.5	14	67	5	2	2.08	10
M 12	205R12	35	50	14	42	21	8.2	13.0	14	67	5	2	2.05	10
M 10	206R10	50	70	16	45	25	9.8	10.5	16	72	5	2	2.68	10
M 12	206R12	50	70	16	45	25	9.8	13.0	16	72	5	2	2.73	10
M 10	207R10	70	95	18	55	28	11.2	10.5	18.5	86	6	3	4.42	10
M 12	207R12	70	95	18	55	28	11.2	13.0	18.5	86	6	3	4.27	10
M 10	208R10	95	120	22	55	32	13.2	10.5	22	90	6	3	7.40	4
M 12	208R12	95	120	22	55	32	13.2	13.0	22	90	6	3	7.50	4
M 16	208R16	95	120	22	55	34	13.2	17.0	22	90	6	3	7.30	4
M 12	209R12	120	150	22	55	32	14.7	13.0	23	91	6	3	6.68	4
M 16	209R16	120	150	22	55	34	14.7	17.0	23	91	6	3	6.41	4
M 12	210R12	150	185	25	63	35	16.5	13.0	25	103	6	3	9.64	4
M 16	210R16	150	185	25	63	35	16.5	17.0	25	103	6	3	9.24	4
M 12	211R12	185	240	28	65	40	18.5	13.0	28	106	6	3	12.61	1
M 16	211R16	185	240	28	65	40	18.5	17.0	28.5	106	6	3	11.92	1
M 20	211R20	185	240	28	65	40	18.5	21.0	28	106	6	3	13.10	1
M 12	212R12	240	300	32	70	45	21.3	13.0	32	116	8	3	18.30	1
M 16	212R16	240	300	32	70	45	21.3	17.0	32	116	8	3	17.60	1
M 20	212R20	240	300	32	70	45	21.3	21.0	32	116	8	3	17.30	1
M 16	213R16	300	--	34	75	49	23.6	17.0	34	124	8	3	17.50	1
M 20	213R20	300	--	34	75	49	23.6	21.0	34	124	8	3	17.30	1
M 16	214R16	400	--	38	95	58	26.0	17.0	38.5	165	--	4	32.20	1
M 20	214R20	400	--	38	95	58	26.0	21.0	38.5	165	--	4	31.90	1

Compression joint to DIN, Al



- ▶ For non-tension connections of aluminium conductors to DIN EN 60228 and aluminium cables to DIN EN 50182
- ▶ To DIN 46267, Part 2
- ▶ With code number for clear tool assignment
- ▶ Filled with contact grease for optimum crimp characteristics
- ▶ For pre-rounded sector shaped conductors

Characteristics

- Easy to process due to crimp markings
- Simple cable entry due to internal chamfer
- Simple and safe processing due to butt mark

Material

- E-aluminium

Surface

- Bright

Technical instructions

- Tool: see page 103

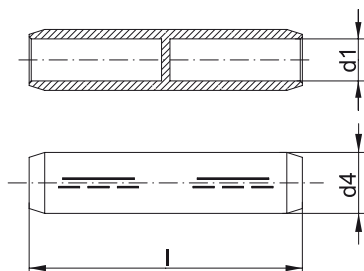
Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded
- 16 - 500 mm² IEC-tested
- * = not standardised

Part No.	Nominal cross section mm ²		Hint	Code	Dimension mm			Number of crimps		Weight 100 pcs. ~kg	Packing unit/ pcs
	rm/sm	re/se			d1	d4	l	Al (7 mm)	Al (wide)		
222R	10	16	*	10	5.0	10.0	55	3/3	--	0.95	10
223R	16	25	*	12	5.8	12.0	55	3/3	--	1.40	10
224R	25	35		12	6.8	12.0	70	4/4	2/2	1.60	10
225R	35	50		14	8.0	14.0	85	5/5	2/2	2.60	10
226R	50	70		16	10.0	16.0	85	5/5	2/2	3.20	10
227R	70	95		18	11.5	18.5	105	6/6	3/3	5.30	10
228R	95	120		22	13.5	22.0	105	6/6	3/3	7.60	10
229R	120	150		22	15.0	23.0	105	6/6	3/3	7.80	10
230R	150	185		25	16.5	25.0	125	6/6	3/3	10.70	10
231R	185	240		28	18.5	28.5	125	6/6	3/3	14.30	5
232R	240	300		32	21.0	32.0	145	8/8	3/3	20.30	5
233R	300	--		34	23.3	34.0	145	8/8	3/3	22.20	1
234R	400	--		38	26.0	38.5	210	--	5/5	40.80	1
235R	500	--		44	29.0	44.0	210	--	5/5	56.00	1



Compression joints, Al



- ▶ For non-tension connections of medium-voltage aluminium cable 10-30 kV
- ▶ For non-tension connections of aluminium conductors to DIN EN 60228 and aluminium cables to DIN EN 50182 and pre-rounded sector shaped conductors
- ▶ For pre-rounded sector shaped conductors
- ▶ Tube dimension to DIN 46267, Part 2
- ▶ With code number for clear tool assignment
- ▶ Filled with contact grease for optimum crimp characteristics

Characteristics

- Also available as barrier design with oil stop
- With chamfered edges for reduced wrapping during assembly
- Easy to process due to crimp markings
- Simple cable entry due to internal chamfer

Material

- E-aluminium

Surface

- Bright

Technical instructions

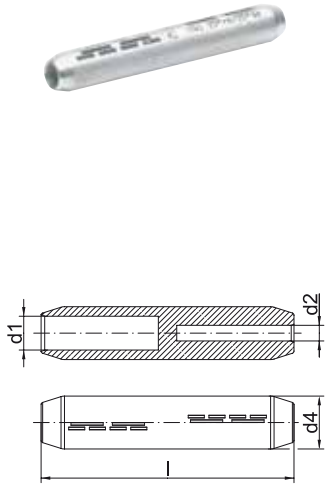
- Tool: see page 103

Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded

Part No.	Nominal cross section mm ²		Code	Dimension mm			Number of crimps		Weight 100 pcs. ~kg	Packing unit/ pcs
	rm/sm	re/se		d1	d4	l	Al (7 mm)	Al (wide)		
Standard type										
405R	35	50	14	8.0	14	90	4/4	2/2	2.7	10
406R	50	70	16	9.8	16	90	4/4	2/2	3.4	10
407R	70	95	18	11.2	18.5	95	4/4	2/2	4.6	10
408R	95	120	22	13.2	22	100	4/4	2/2	6.8	10
409R	120	150	22	14.7	23	105	4/4	2/2	7.4	10
410R	150	185	25	16.3	25	105	4/4	2/2	8.7	10
411R	185	240	28	18.3	28.5	125	5/5	2/2	13.4	5
412R	240	300	32	21.0	32	125	5/5	2/2	15.7	5
413R	300	--	34	23.3	34	125	5/5	2/2	16.3	1
414R	400	--	38	27.0	38.5	150	--	3/3	25.8	1
Barrier version										
416R	50	70	16	9.8	16	95	4/4	2/2	5.6	5
417R	70	95	18	11.2	18.5	100	4/4	2/2	6.1	5
418R	95	120	22	13.2	22	105	4/4	2/2	9.2	5
419R	120	150	22	14.7	23	110	4/4	2/2	10.3	5
420R	150	185	25	16.3	25	110	4/4	2/2	12.0	5
421R	185	240	28	18.3	28.5	130	5/5	2/2	15.6	5
422R	240	300	32	21.0	32	130	5/5	2/2	19.1	5
423R	300	--	34	23.3	34	135	5/5	2/2	30.7	1
424R	400	--	38	26.0	38	165	--	3/3	30.0	1

Reduction compression joints, Al, barrier type



- ▶ For non-tension connections of aluminium conductors to DIN EN 60228 and aluminium cables to DIN EN 50182
- ▶ In nominal cross-section area tube dimension to DIN 46267, part 2
- ▶ For pre-rounded sector shaped conductors
- ▶ Ideal for connecting differing conductor cross-sections
- ▶ Filled with contact grease for optimum crimp characteristics

Characteristics

- Barrier design with oil stop
- Unique tool assignment due to DIN die coding
- Easy to process due to crimp markings
- Simple cable entry due to internal chamfer

Material

- E-aluminium

Surface

- Bright

Technical instructions

- Tools: see chart page 103

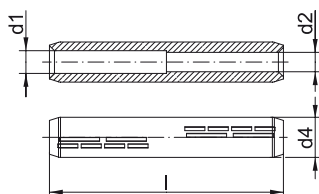
Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded

Part No.	Nominal cross section mm ²				Code	Dimension mm				Number of crimps		Weight 100 pcs. ~kg	Packing unit/pcs
	re/se from	rm/sm from	re/se to	rm/sm to		d1	d2	d4	l	Al (7 mm)	Al (wide)		
425R25	50	35	35	25	14	8.0	6.8	14	95	4/4	2/2	2.8	5
426R35	70	50	50	35	16	9.8	8.0	16	95	4/4	2/2	3.45	5
428R50	120	95	70	50	22	13.2	9.8	22	105	4/4	2/2	7.60	5
428R70	120	95	95	70	22	13.2	11.2	22	105	4/4	2/2	7.35	5
429R70	150	120	95	70	22	14.7	11.2	23	110	4/4	2/2	7.10	5
429R95	150	120	120	95	22	14.7	13.2	23	110	4/4	2/2	6.55	5
430R70	185	150	95	70	25	16.3	11.2	25	110	4/4	2/2	9.80	5
430R95	185	150	120	95	25	16.3	13.2	25	110	4/4	2/2	9.50	5
430R120	185	150	150	120	25	16.3	14.7	25	110	4/4	2/2	8.65	5
431R70	240	185	95	70	28	18.3	11.2	28.5	130	--	2/2	15.05	5
431R95	240	185	120	95	28	18.3	13.2	28.5	130	--	2/2	14.40	5
431R120	240	185	150	120	28	18.3	14.7	28.5	130	5/5	2/2	13.70	5
431R150	240	185	185	150	28	18.3	16.3	28.5	130	5/5	2/2	13.05	5
432R120	300	240	150	120	32	21.0	14.7	32	130	--	2/2	18.80	5
432R150	300	240	185	150	32	21.0	16.3	32	130	5/5	2/2	18.125	5
432R185	300	240	240	185	32	21.0	18.3	32	130	5/5	2/2	17.275	5
433R150	-	300	185	150	34	23.3	16.3	34	135	5/5	2/2	21.10	1
433R185	-	300	240	185	34	23.3	18.3	34	135	5/5	2/2	20.12	1
433R240	-	300	300	240	34	23.3	21.0	34	135	5/5	2/2	18.73	1
434R300	-	400	-	300	38	26.0	23.3	34	165	--	3/3	31.20	1



Reduction-compression joints, Al



- ▶ For non-tension connections of aluminium conductors to DIN EN 60228 and aluminium cables to DIN EN 50182
- ▶ For pre-rounded sector shaped conductors
- ▶ In nominal cross-section area tube dimension to DIN 46267, part 2
- ▶ With code number for clear tool assignment
- ▶ Filled with contact grease for optimum crimp characteristics

Characteristics

- For connecting different conductor cross-sections
- Easy to process due to crimp markings
- Simple cable entry due to internal chamfer

Material

- E-aluminium

Surface

- Bright

Technical instructions

- Tool: see page 103

Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded

Part No.	Nominal cross section mm ²				Code	Dimension mm				Number of crimps		Weight 100 pcs. ~kg	Packing unit/pcs
	re/se from	rm/sm from	re/se to	rm/sm to		d1	d2	d4	l	Al (7 mm)	Al (wide)		
284R16	35	25	25	16	12	6.8	5.8	12	70	4/4	2/2	1.53	10
285R25	50	35	35	25	14	8.0	6.8	14	85	5/5	2/2	2.50	10
286R25	70	50	35	25	16	9.8	6.8	16	85	5/5	2/2	3.24	10
286R35	70	50	50	35	16	9.8	8.0	16	85	5/5	2/2	3.09	10
287R25	95	70	35	25	18	11.2	6.8	18.5	105	6/6	3/3	5.50	10
287R35	95	70	50	35	18	11.2	8.0	18.5	105	6/6	3/3	5.35	10
287R50	95	70	70	50	18	11.2	9.8	18.5	105	6/6	3/3	4.96	10
288R25	120	95	35	25	22	13.2	6.8	22	105	6/6	3/3	9.10	10
288R35	120	95	50	35	22	13.2	8.0	22	105	6/6	3/3	8.90	10
288R50	120	95	70	50	22	13.2	9.8	22	105	6/6	3/3	8.51	10
288R70	120	95	95	70	22	13.2	11.2	22	105	6/6	3/3	8.15	10
289R70	150	120	95	70	22	14.7	11.2	23	105	6/6	3/3	7.66	10
289R95	150	120	120	95	22	14.7	13.2	23	105	6/6	3/3	7.14	10
290R70	185	150	95	70	25	16.3	11.2	25	125	6/6	3/3	11.70	10
290R95	185	150	120	95	25	16.3	13.2	25	125	6/6	3/3	11.05	10
290R120	185	150	150	120	25	16.3	14.7	25	125	6/6	3/3	10.49	10
291R120	240	185	150	120	28	18.3	14.7	28.5	125	6/6	3/3	13.80	5
291R150	240	185	185	150	28	18.3	16.3	28.5	125	6/6	3/3	13.19	5
292R95	300	240	120	95	32	21.0	13.2	32	145	--	3/3	22.24	5
292R120	300	240	150	120	32	21.0	14.7	32	145	--	3/3	21.59	5
292R150	300	240	185	150	32	21.0	16.3	32	145	--	3/3	20.87	5

Compression joint to DIN, Al, full tension



- ▶ For full tension connections of aluminium cables to DIN EN 50182
- ▶ To DIN 48085, Part 2
- ▶ With code number for clear tool assignment
- ▶ Filled with contact grease for optimum crimp characteristics

Characteristics

- Easy to process due to crimp markings
- Simple cable entry due to internal chamfer

Material

- E-aluminium to 95 mm²
- AlMgSi from 120 mm²

Surface

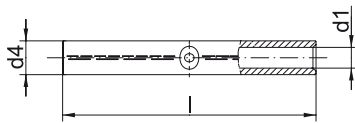
- Bright

Technical instructions

- Tool: see page 103

Additional information

- * = not standardised



Nominal cross section mm ²	Part No.	Hint	Code	Dimension mm			Number of crimps		Conductor mm dia.	Weight 100 pcs. ~kg	Packing unit/pcs
				d1	d4	l	Al (7 mm)	Al (wide)			
16	243R	*	12	5.8	12.0	140	8/8	4/4	5.1	3.4	10
25	244R		12	7.0	12.0	140	8/8	4/4	6.3	2.9	10
35	245R		14	8.2	14.0	140	8/8	4/4	7.5	3.9	10
50	246R		16	10.0	16.0	155	8/8	4/4	9.0	5.2	10
70	247R		18	11.5	18.5	165	8/8	4/4	10.5	7.4	10
95	248R		22	13.5	22.0	165	8/8	4/4	12.5	12.2	10
120	249R		25	15.5	25.5	250	12/12	6/6	14.0	21.8	10
150	250R		28	16.5	28.5	300	--	7/7	15.7	34.4	10
185	251R		28	18.5	28.5	330	--	7/7	17.5	33.0	5
240	252R		34	21.5	34.5	350	--	7/7	20.2	54.0	5
300	253R		38	23.5	38.5	400	--	8/8	22.5	79.0	1



Compression joint to DIN, Al/St



- ▶ For full tension connections of Al/St conductors to DIN EN 50182
- ▶ To DIN 48085, Part 3
- ▶ Unique tool assignment due to coding
- ▶ Filled with contact grease for optimum crimp characteristics

Characteristics

- Easy to process due to crimp markings
- Simple cable entry due to internal chamfer

Material

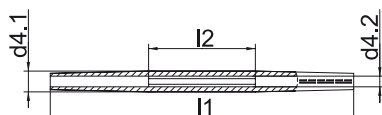
- Sleeve: E-aluminium
- Sleeve: Steel (St 52)

Surface

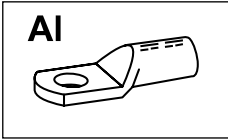
- Al sleeve: bright
- St sleeve: hot zinc galvanised

Technical instructions

- Tool: see page 105



Nominal cross section mm ²	Part No.	Code	Dimension mm				Code Al	Number of crimps				Conductor mm dia.	Weight 100 pcs. ~kg	Packing unit/pcs
			d41	d42	l1	l2		Stahl (5 mm)	Stahl (wide)	Al (7 mm)	Al (wide)			
35 - 6	455R	6	14.0	6.3	235	75	14	5/5	--	8/8	--	8.1	7	5
50 - 8	456R	7	16.0	7.5	270	95	16	6/6	--	9/9	--	9.6	11	5
70 - 12	457R	9	18.5	9.5	270	95	18	6/6	--	9/9	--	11.7	15	5
95 - 15	458R	9	22.5	9.6	310	95	22	6/6	--	11/11	--	13.6	23	5
120 - 20	459R	13	25.0	13.0	380	110	25	7/7	4/4	13/13	6/6	15.5	36	5



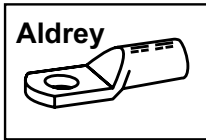
Tool application chart

Compression cable lugs and connectors made from E-AI

Compression cable lugs for full-tension connections from AI conductors DIN EN 50182, 16 - 95 mm²

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	10 - 70	K354		236	317	
	10 - 185	K18		238	325	
	10 - 300	K22		240	330	
Hand hydraulic crimping tools	10 - 185	HK6018		280	325	
		HK60UNV	+UA18	465	325	
	10 - 300	HK6022		282	330	
		HK60UNV	+UA22	465	330	
		HK12030		286	336	
		HK12042		288	336	
		HK120U		290	336	
Battery powered crimping tools	10 - 70	EK354ML		250	317	
		EK354		256	317	
	10 - 150	EK505		258	321	
	10 - 185	EK5018		260	325	
		EK60UNV	+UA18	468	325	
		EKM60UNV	+UA18	467	325	
	10 - 300	EK6022		264	330	
		EKM6022		262	330	
	50 - 240	EKM60ID*		268		
	10 - 300	EK60UNV	+UA22	468	330	
		EKM60UNV	+UA22	467	330	
		EK120UNV		469		
		EK12032		270	336	
		EK12042		272	336	
		EK120U	+UA15T	274	336	
		EK135FT	+UA12T	276	336	
Hydraulic crimping systems	10 - 185	THK18		294	325	
	10 - 300	THK22		296	330	
		THK120		300	336	
	10 - 500	HK252	+25A13	308	336 + 340	
	150 - 500	HK45		309	342	
Hydraulic crimping heads	10 - 185	PK18		294	325	
		PK60UNV	+UA18	466	325	
	10 - 300	PK22		296	330	
		PK60UNV	+UA22	466	330	
		PK12042		300	336	
		PK120U		302	336	
	10 - 500	PK252	+25A13	304	336 + 340	
	50 - 240	PK60ID*		299		
	150 - 500	PK45		306	342	

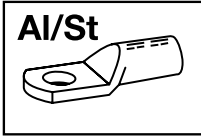
* Not suitable for full-tension connections



Tool application chart

Compression joints for full-tension connections from Aldrey conductors to DIN EN 50182 and Al conductors to DIN EN 50182, 120-300 mm²

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile		
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die			
Hand hydraulic crimping tools	25 - 95	K18		238	325	⬡		
	25 - 185	K22		240	330	⬡		
	25 - 95	HK6018		280	325	⬡		
		HK60UNV	+UA18	465	325	⬡		
	25 - 185	HK6022		282	330	⬡		
		HK60UNV	+UA22	465	330	⬡		
		HK12030		286	336	⬡		
		HK12042		288	336	⬡		
		HK120U		290	336	⬡		
	150 - 300	HK45		309	342	⬡		
Battery powered crimping tools	25 - 95	EK505		258	321	⬡		
		EK5018		260	325	⬡		
		EK60UNV	+UA18	468	325	⬡		
		EKM60UNV	+UA18	467	325	⬡		
	25 - 185	EK6022		264	330	⬡		
		EKM6022		262	330	⬡		
		EK60UNV	+UA22	468	330	⬡		
		EKM60UNV	+UA22	467	330	⬡		
		EK12032		270	336	⬡		
		EK12042		272	336	⬡		
		EK120U		274	336	⬡		
		EK135FT	+UA15T	276	336	⬡		
		EK120UNV	+UA12T	469	336	⬡		
		Hydraulic crimping systems	25 - 95	THK18		294	325	⬡
			25 - 185	THK22		296	330	⬡
25 - 300	HK252			308	336 + 340	⬡		
Hydraulic crimping heads	25 - 95	PK18		294	325	⬡		
		PK60UNV	+UA18	466	325	⬡		
	25 - 185	PK22		296	330	⬡		
		PK60UNV	+UA22	466	330	⬡		
		PK12042		300	336	⬡		
		PK120U		302	336	⬡		
	25 - 300	PK252		304	336 + 340	⬡		
	150 - 300	PK45		306	342	⬡		



Tool application chart

Compression joints for non-tension connections from Al/St. cables and full-tension connections to DIN 48085, part 3 for Al/St. cables to DIN EN 50182

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	25/4 - 120/20	K22		240	331	⬡
Hand hydraulic crimping tools	25/4 - 120/20	HK6022		282	331	⬡
		HK60UNV	+UA22	465	331	⬡
		HK12030		286	336	⬡
		HK12042		288	336	⬡
		HK120U		290	336	⬡
Battery powered crimping tools	25/4 - 120/20	EK6022		264	331	⬡
		EKM6022		262	331	⬡
		EK60UNV	+UA22	468	331	⬡
		EKM60UNV	+UA22	467	331	⬡
		EK12032		270	336	⬡
		EK12042		272	336	⬡
		EK120U		274	336	⬡
		EK135FT	+UA15T	276	336	⬡
		EK120UNV	+UA12T	469	336	⬡
Hydraulic crimping systems	25/4 - 120/20	THK22		296	331	⬡
		HK252	+25A13	308	336	⬡
Hydraulic crimping heads	25/4 - 120/20	PK22		296	331	⬡
		PK60UNV	+UA22	466	331	⬡
		PK12042		300	336	⬡
		PK120U		302	336	⬡
		PK252	+25A13	304	336	⬡

CONNECTED - COMPRESSION CABLE LUGS MADE FROM ALUMINIUM AND COPPER

Two components reliably connected. Copper and aluminium have different material properties. That's not always a good thing. Our compression cable lugs and connectors made from aluminium and copper are intricately produced by special processes and join together what belongs together. No matter which material you use: Your contacts are reliable with Klauke.



In brief

- ▶ Simple processing based on DIN standards
- ▶ Reliable connection of copper and aluminium, even in contact with water
- ▶ Special manufacturing methods ensure high quality
- ▶ Also suitable for sector shaped conductors and wires

▶ As good as always

Cable lugs and connectors made from aluminium and copper can be processed in exactly the same way as DIN standard aluminium cable lugs. No special tools are required, you simply use the right Klauke dies. And so the result is as good as always.

- For round and sector shaped conductors to DIN EN 60228 and aluminium wires to DIN 50182
- No additional costs for new crimping dies
- Reliable connection by preventing contact corrosion

▶ Numerous versions available

The great thing about the broad Klauke range is: You can select the suitable cable lug for your project and optimally process your choice using the Klauke tools. Everything fitting together.

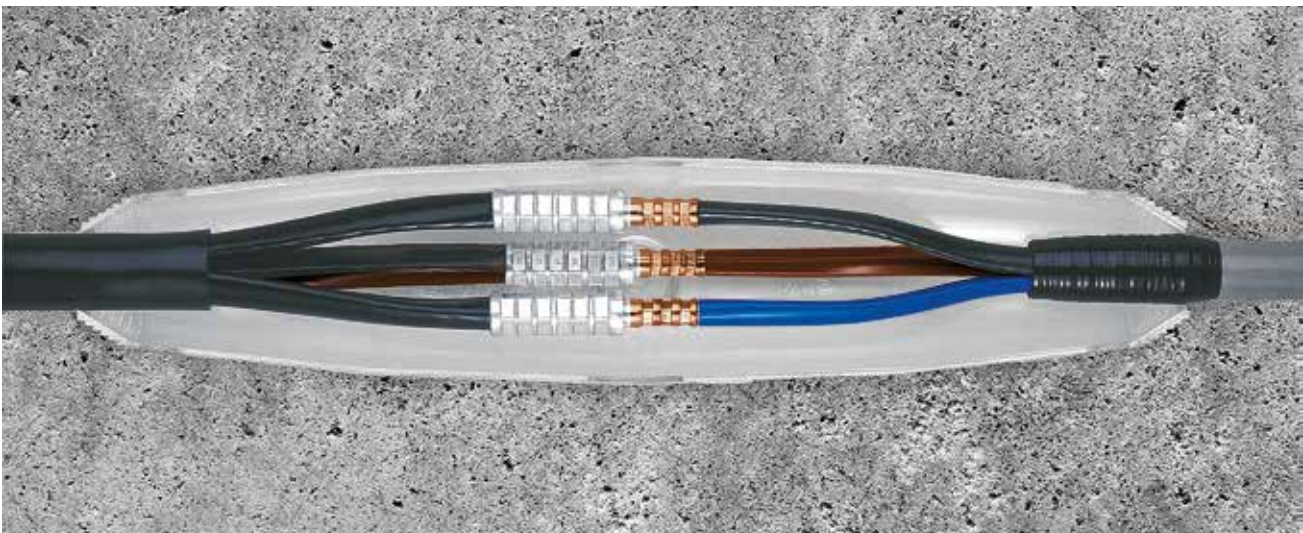
- Processing as usual with standard aluminium cable lugs
- Different versions available, for instance, as a cable lug with a copper eye or Cupal washers or as a rotational friction welded cable lug



▶ Well connected in every situation

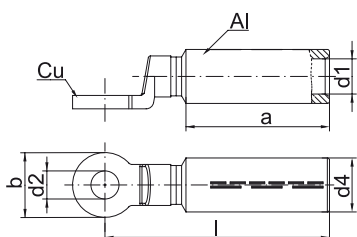
Reduction compression joints enable aluminium conductors to be integrated into copper-containing systems. They connect the two different materials regardless of the physical cable dimensions.

- Suitable for round or sector shaped conductors
- Suitable for multi-stranded and single-stranded sector shaped conductors





Compression cable lugs, Al/Cu



- ▶ For non-tension connections of aluminium conductors to DIN EN 60228 and aluminium open wires to DIN EN 50182 and pre-rounded sector shaped conductors
- ▶ Tube dimension to DIN 46329
- ▶ With code number for clear tool assignment
- ▶ Filled with contact grease for optimum crimp results

Characteristics

- For connecting non-tensioned aluminium conductors to copper connections in humid environments and outdoors
- Barrier design with oil stop and solid copper palm
- With crimp markings for correct crimp positioning
- Internal chamfer for simple cable insertion

Material

- E-aluminium
- Copper (EN13600)

Surface

- Bright

Technical instructions

- Tool: see page 115

Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded

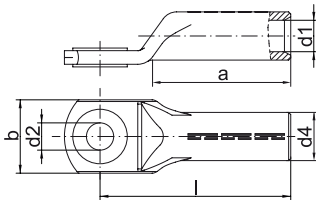
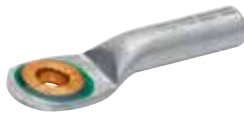
Size of bolt dia.	Part No.	Nominal cross section mm ²		Code	Dimension mm						Number of crimps		Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
		rm/sm	re/se		a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)			
M 8	363R8	16	25	12	34	24	6.0	8.5	12	68	4	2	4.4	5.9	10
M 10	363R10	16	25	12	34	24	6.0	10.5	12	68	4	2	4.2	5.7	10
M 8	364R8	25	35	12	34	24	6.8	8.5	12	68	4	2	4.4	5.8	10
M 10	364R10	25	35	12	34	24	6.8	10.5	12	68	4	2	4.2	5.6	10
M 12	364R12	25	35	12	34	24	6.8	13.0	12	68	4	2	3.9	5.3	10
M 8	365R8	35	50	14	43	24	8.0	8.5	14	77	5	2	4.4	6.3	10
M 10	365R10	35	50	14	43	24	8.0	10.5	14	77	5	2	4.2	6.1	10
M 12	365R12	35	50	14	43	24	8.0	13.0	14	77	5	2	3.8	5.8	10
M 8	366R8	50	70	16	43	25	9.8	8.5	16	77	5	2	4.4	6.4	10
M 10	366R10	50	70	16	43	25	9.8	10.5	16	77	5	2	4.2	6.2	10
M 12	366R12	50	70	16	43	25	9.8	13.0	16	77	5	2	3.9	5.9	10
M 8	367R8	70	95	18	52	25	11.2	8.5	18.5	84.5	6	3	3.9	6.9	10
M 10	367R10	70	95	18	50	25	11.2	10.5	18.5	85	6	3	4.2	7.4	10
M 12	367R12	70	95	18	50	25	11.2	13.0	18.5	85	6	3	3.9	7.1	10
M 8	368R8	95	120	22	56	30	13.2	8.5	22	90.5	6	3	4.1	8.0	5
M 10	368R10	95	120	22	50.5	30	13.2	10.5	22	90.5	6	3	7.4	11.4	10
M 12	368R12	95	120	22	50.5	30	13.2	13.0	22	90.5	6	3	6.8	10.8	10
M 16	368R16	95	120	22	50.5	30	13.2	17.0	22	90.5	6	3	6.4	10.4	10
M 8	369R8	120	150	22	50.5	30	14.7	8.5	23	95	6	3	3.9	8.3	5
M 12	369R12	120	150	22	50.5	30	14.7	13.0	23	92.0	6	3	6.8	11.4	5
M 16	369R16	120	150	22	50.5	30	14.7	17.0	23	92.0	6	3	6.4	10.8	5
M 12	370R12	150	185	25	62	30	16.3	13.0	25	104.0	6	3	6.8	13.1	5
M 16	370R16	150	185	25	62	30	16.3	17.0	25	104.0	6	3	6.4	12.7	5
M 10	371R10	185	240	28	62	30	18.3	10.5	28.5	105.5	6	3	10.3	18.6	5
M 12	371R12	185	240	28	62	35	18.3	13.0	28.5	105.5	6	3	10.1	18.4	5
M 16	371R16	185	240	28	62	35	18.3	17.0	28.5	105.5	6	3	9.3	17.6	5

see next page

Compression cable lugs, Al/Cu

Size of bolt dia.	Part No.	Nominal cross section mm ²		Code	Dimension mm						Number of crimps		Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
		rm/sm	re/se		a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)			
M 20	371R20	185	240	28	60	35	18.3	21.0	28.5	107.5	6	3	10.1	18.4	5
M 10	372R10	240	300	32	70	35	21.0	10.5	32	118.5	8	3	12.1	22.5	5
M 12	372R12	240	300	32	70	35	21.0	13.0	32	118.5	8	3	11.8	22.2	5
M 16	372R16	240	300	32	70	35	21.0	17.0	32	118.5	8	3	11.0	21.4	5
M 20	372R20	240	300	32	70	35	21.0	21.0	32	118.5	8	3	10.1	20.5	5
M 12	373R12	300	--	34	70	36	23.3	13.0	34	123.5	8	3	17.7	33.7	2
M 16	373R16	300	--	34	70	36	23.3	17.0	34	123.5	8	3	16.9	32.9	2
M 20	373R20	300	--	34	70	40	23.3	21.0	34	123.5	8	3	16.0	32.0	1
M 12	374R12	400	--	38	73	40	26.0	13.0	38.5	150.5	--	4	25.6	37.4	1

Compression cable lugs, Al/Cu with Cu eye



- ▶ For non-tension connections of aluminium conductors to DIN EN 60228 and aluminium cables to DIN EN 50182
- ▶ Tube dimension to DIN 46329
- ▶ For pre-rounded sector shaped conductors
- ▶ Unique tool assignment due to coding
- ▶ Filled with contact grease for optimum crimp characteristics

Characteristics

- For connecting non-tension aluminium connections using Cu-washers in humid areas
- With Cu eyelet in screw-on area
- Easy to process due to crimp markings
- Simple cable entry due to internal chamfer

Material

- E-aluminium
- Copper (EN13600)

Surface

- Bright

Technical instructions

- Tool: see page 115

Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded

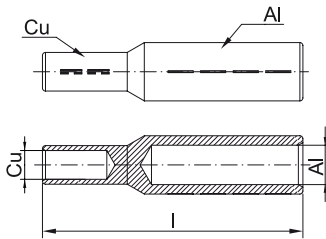
Size of bolt dia.	Part No.	Nominal cross section mm ²		Code	Dimension mm						Number of crimps		Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
		rm/sm	re/se		a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)			
M 6	302R6	10	16	10	32	18	5.0	6.5	10	52	4	2	0.260	1.20	10
M 8	302R8	10	16	10	32	22	5.0	8.5	10	52	4	2	0.580	1.50	10
	303R8	16	25	12	32	22	5.8	8.5	12	52	4	2	0.600	1.95	10
M 10	303R10	16	25	12	32	25	5.8	10.5	12	52	4	2	0.600	2.00	10
M 8	304R8	25	35	12	38	22	7.0	8.5	12	60	4	2	0.625	2.00	10
M 10	304R10	25	35	12	38	25	7.0	10.5	12	60	4	2	0.900	2.10	10
	305R10	35	50	14	42	26	8.2	10.5	14	67	5	2	0.800	3.00	10
M 12	305R12	35	50	14	42	30	8.2	13.0	14	67	5	2	1.120	3.10	10
M 10	306R10	50	70	16	45	27	10.0	10.5	16	72	5	2	0.900	3.60	10
M 12	306R12	50	70	16	45	30	10.0	13.0	16	72	5	2	1.120	3.80	10
M 10	307R10	70	95	18	55	29	11.5	10.5	18.5	86	6	3	1.075	5.60	10

see next page

**Compression cable lugs, Al/Cu with Cu eye**

Size of bolt dia.	Part No.	Nominal cross section mm ²			Dimension mm						Number of crimps		Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
		rm/sm	re/se	Code	a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)			
M 12	307R12	70	95	18	55	32	11.5	13.0	18.5	86	6	3	1,300	5,70	10
M 10	308R10	95	120	22	55	32	13.5	10.5	22	90	6	3	1,435	10,00	5
M 12	308R12	95	120	22	55	35	13.5	13.0	22	90	6	3	1,735	9,50	5
M 16	308R16	95	120	22	55	38	13.5	17.0	22	90	6	3	2,655	10,00	5
M 12	309R12	120	150	22	55	35	15.0	13.0	23	91	6	3	1,810	8,70	5
M 16	309R16	120	150	22	55	38	15.0	17.0	23	91	6	3	2,230	8,80	5
M 12	310R12	150	185	25	63	35	16.5	13.0	25	103	6	3	2,025	12,20	5
M 16	310R16	150	185	25	63	41	16.5	17.0	25	103	6	3	2,655	12,30	5
M 12	311R12	185	240	28	65	40	18.5	13.0	28.5	106	6	3	2,320	15,00	5
M 16	311R16	185	240	28	65	42	18.5	17.0	28.5	106	6	3	4,975	15,50	5
M 20	311R20	185	240	28	65	46	18.5	21.0	28.5	106	6	3	4,610	15,50	5
M 12	312R12	240	300	32	70	45	21.0	13.0	32	116	8	3	2,750	20,00	5
M 16	312R16	240	300	32	70	45	21.3	17.0	32	116	8	3	3,400	21,00	5
M 20	312R20	240	300	32	70	49	21.3	21.0	32	116	8	3	4,600	22,00	5
M 16	313R16	300	--	34	75	51	23.3	17.0	34	124	8	3	3,980	21,60	1
M 20	313R20	300	--	34	75	51	23.3	21.0	34	124	8	3	5,510	22,20	1
M 16	314R16	400	--	38	95	58	26.25	17.0	38.5	165	--	4	4,200	35,00	1
M 20	314R20	400	--	38	95	58	26.25	21.0	38.5	165	--	4	5,950	35,00	1

Compression joints, Al/Cu



- ▶ For non-tension connections of aluminium conductors to DIN EN 60228 and aluminium cables to DIN EN 50182
- ▶ For Cu round conductors, e.g. to DIN EN 60228 Cl. 1, 2, 5 and 6
- ▶ For non-tension copper cables, e.g. to DIN 48201-1
- ▶ For pre-rounded sector shaped conductors
- ▶ Tube dimension to DIN 46235 part 1 and 2
- ▶ With code number for clear tool assignment

Characteristics

- For connecting non-tension aluminium and copper conductors
- Easy to process due to crimp markings
- Simple cable entry due to internal chamfer

Material

- E-aluminium
- Copper (EN13600)

Surface

- Bright

Technical instructions

- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“
- Reduction sleeves for connecting unequal cross-sections can be found on page 68
- Tool: see page 115

Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded

Part No.	Nominal cross section mm ²			Dimension mm			Code		Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
	Al rm/sm	Al re/se	Cu re/rm/se/sm	l	Inner dia. Al	Inner dia. Cu	Al	Cu			
322R10	10		10	55.0	5.0	4.5	10	6	0.212	1.100	4
322R16	10		16	61.0	5.0	5.4	10	8	0.714	1.550	4
323R10	16		10	55.0	6.0	4.5	12	6	0.212	1.500	4
323R16	16		16	61.0	6.0	5.4	12	8	0.714	1.750	4
324R10	25	35	10	55.0	6.8	4.5	12	6	0.212	1.400	4
324R16	25	35	16	61.0	6.8	5.5	12	8.0	0.714	1.650	4
324R25	25	35	25	63.0	6.8	7.0	12	10	0.892	1.900	4
324R35	25	35	35	63.0	6.8	8.2	12	12.0	1.624	2.000	4
324R50	25	35	50	72.0	6.8	10.0	12	14	2.362	3.500	4
324R416	25/4	35	16	61.0	7.6	5.5	12	8.0	0.714	1.600	4
325R16	35	50	16	71.0	8.0	5.5	14	8.0	0.714	2.500	4
325R25	35	50	25	71.0	8.0	7.0	14	10	0.892	2.650	4
325R35	35	50	35	71.0	8.0	8.2	14	12.0	1.519	3.300	4
325R50	35	50	50	77.0	8.0	10.0	14	14.0	2.362	3.530	4
325R616	35/6	50	16	71.0	9.0	5.5	14	8.0	0.714	2.450	4
325R625	35/6	50	25	71.0	9.0	7.0	14	10	0.892	2.600	4
325R635	35/6	50	35	71.0	9.0	8.2	14	12.0	1.624	3.250	4
326R16	50	70	16	71.5	9.8	5.5	16	8.0	0.714	2.850	4
326R25	50	70	25	71.5	9.8	7.0	16	10	0.892	3.200	4
326R35	50	70	35	71.5	9.8	8.2	16	12.0	1.624	3.800	4
326R50	50	70	50	77.5	9.8	10.0	16	14.0	2.362	4.550	4
327R16	70	95	16	79.0	11.2	5.5	18.5	8.0	0.714	4.100	4

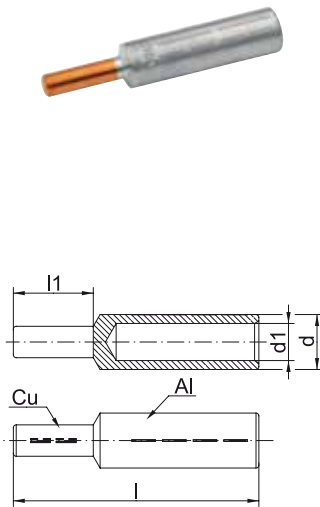
see next page



Compression joints, Al/Cu

Part No.	Nominal cross section mm ²			Dimension mm			Code		Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
	Al rm/sm	Al re/se	Cu re/rm/se/sm	l	Inner dia. Al	Inner dia. Cu	Al	Cu			
327R25	70	95	25	79.0	11.2	7.0	18,5	10	0.892	3.950	4
327R35	70	95	35	79.0	11.2	8.2	18	12	1.624	4.900	4
327R50	70	95	50	85.0	11.2	10.0	18	14	2.362	5.700	4
327R70	70	95	70	85.0	11.2	11.5	18	16	2.921	7.250	4
327R95	70	95	95	95.0	11.2	13.5	18	18	4.957	9.360	4
327R120	70	95	120	99.0	11.2	15.5	18	20	5.640	10.540	4
328R16	95	120	16	79.0	13.2	5.5	22	8	0.714	6.150	4
328R25	95	120	25	79.0	13.2	7.0	22	10	0.892	6.300	4
328R35	95	120	35	79.0	13.2	8.2	22	12	1.519	6.800	4
328R50	95	120	50	85.0	13.2	10.0	22	14	2.362	8.050	4
328R70	95	120	70	87.0	13.2	11.5	22	16	3.105	8.200	4
328R95	95	120	95	95.0	13.2	13.5	22	18	4.957	10.350	4
328R120	95	120	120	95.0	13.2	15.5	22	20	5.640	11.550	4
329R35	120	150	35	81.0	14.7	8.2	22	12	1.519	7.600	4
329R50	120	150	50	87.0	14.7	10.0	22	14	2.362	7.900	4
329R70	120	150	70	89.0	14.7	11.5	22	16	3.105	8.500	4
329R95	120	150	95	97.0	14.7	13.5	22	18	4.857	11.000	4
329R120	120	150	120	97.0	14.7	15.5	22	20	5.640	10.280	4
330R16	150	185	16	95.5	16.3	5.4	25	8	0.714	7.800	4
330R25	150	185	25	95.5	16.3	6.8	25	10	0.892	8.000	4
330R35	150	185	35	95.5	16.3	8.2	25	12	1.624	8.400	4
330R50	150	185	50	98.5	16.3	10.0	25	14	2.362	10.200	4
330R70	150	185	70	99.5	16.3	11.5	25	16	3.105	10.350	4
330R95	150	185	95	107.5	16.3	13.5	25	18	4.957	12.650	4
330R120	150	185	120	107.5	16.3	15.5	25	20	5.640	13.900	4
330R150	150	185	150	114.0	16.3	17.0	25	23	8.231	16.700	4
331R50	185	240	50	99.0	18.3	10.0	28	14	2.362	12.100	1
331R70	185	240	70	100.0	18.3	11.5	28	16	3.105	13.000	1
331R95	185	240	95	108.0	18.3	13.5	28	19	4.957	14.450	1
331R120	185	240	120	108.0	18.3	15.5	28	28	5.640	13.720	1
331R150	185	240	150	113.0	18.3	17.0	28	22	8.231	19.550	1
331R185	185	240	185	116.0	18.3	19.0	28	25	9.621	21.000	1
332R50	240	300	50	110.0	21.0	10.0	32	14	2.362	16.500	1
332R70	240	300	70	111.0	21.0	11.5	32	16	3.105	18.000	1
332R95	240	300	95	119.0	21.0	13.5	32	18	4.957	19.000	1
332R120	240	300	120	119.0	21.0	15.5	32	20	5.640	20.500	1
332R150	240	300	150	124.0	21.0	17.0	32	22	8.231	23.300	1
332R185	240	300	185	127.0	21.0	19.0	32	25	9.621	25.500	1
332R240	240	300	240	128.0	21.0	21.5	32	28	12.705	30.100	1
333R120	300	--	120	119.0	23.5	15.5	34	21	5.640	27.800	1
333R150	300	--	150	124.0	23.5	17.0	34	23,5	8.234	31.100	1
333R185	300	--	185	127.0	23.5	19.0	34	25	9.621	32.700	1
333R240	300	--	240	128.0	23.5	21.5	34	28	12.705	37.500	1
333R300	300	--	300	134.0	23.5	24.5	34	32	16.099	41.700	1

Compression joints with Cu bolts, Al



- ▶ For non-tension connections of aluminium conductors to DIN EN 60228 and aluminium cables to DIN EN 50182
- ▶ For pre-rounded sector shaped conductors
- ▶ Tube dimension to DIN 46267, part 2
- ▶ Unique tool assignment due to coding

Characteristics

- For screwing non-tension aluminium conductors into copper terminals
- Easy to process due to crimp markings
- Simple cable entry due to internal chamfer

Material

- E-aluminium
- Copper (EN13600)

Surface

- Bright

Technical instructions

- Tool: see page 115

Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded

Part No.	Nominal cross section mm ²		Code	Dimension mm				Bolt mm dia.	Conductor mm dia.	Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
	rm/sm	re/se		d Ø	d1	l	l1					
344R	25	35	12	12.0	6.8	60	20	6	6.3	0.462	1.6	10
345R	35	50	14	14.0	8.0	71	22	7	7.5	0.695	2.5	10
346R	50	70	16	16.0	10.0	74	25	8	9.0	1.037	3.3	10
347R	70	95	18	18.5	11.5	87	30	10	10.5	1.958	5.4	10
348R	95	120	22	23.0	13.2	91	33	12	12.5	3.112	8.7	10
349R	120	150	22	23.0	15.0	97	38	12	14.0	3.598	9.0	10
350R	150	185	25	25.5	16.5	108	38	12	15.8	3.598	10.9	10
351R	185	240	28	28.5	18.5	116	44	14	17.5	3.692	15.7	5
352R	240	300	32	32.5	21.5	128	44	16	20.3	7.435	21.8	5
353R	300	--	34	34.5	23.5	131	46	18	22.5	9.410	26.7	1



Cupal washers

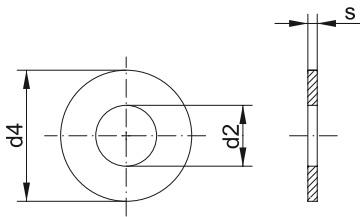


Characteristics

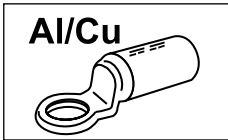
- Flat washer for processing aluminium and copper cable lugs
- For connecting copper conductors to aluminium in dry environments
- For connecting aluminium conductors to copper in dry environments
- Can also be used for connecting tinned aluminium cable lugs in humid environments

Material

- E-Al, one side copper plated



Size of bolt dia.	Part No.	Dimension mm			Weight 100 pcs. ~kg	Packing unit/pcs
		d2	d4	s		
M 6	CS615	6.5	15	2	0.06	10
M 8	CS818	8.5	18	2	0.09	10
M 10	CS1022	11.0	22	2	0.26	10
M 12	CS1228	13.0	28	2	0.44	10
M 14	CS1428	15.0	28	2	0.40	10
M 16	CS1635	17.0	35	2	0.66	10



Tool application chart

Compression cable lugs and connectors made from Al/Cu
The tools of the copper side of our Al/Cu compression joints you will find in the tool application chart of copper compression cable lugs and connectors acc. to DIN

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
mechanical, electrical, pneumatic crimping tools with interchangeable die / head	10-70	K354		236	317	
	10-185	K18		238	325	
	10-300	K22		240	330	
Hand hydraulic crimping tools	10-185	HK6018		280	325	
		HK60UNV	+UA18	465	325	
	10-300	HK6022		282	330	
		HK60UNV	+UA22	465	330	
		HK12030		286	336	
		HK12042		288	336	
		HK120U		290	336	
Battery powered crimping tools	10-70	EK354ML		250	317	
		EK354		256	317	
	10-185	EK5018		260	325	
		EK60UNV	+UA18	468	325	
		EKM60UNV	+UA18	467	325	
	10-300	EK6022		264	330	
		EKM6022		262	330	
		EK60UNV	+UA22	468	330	
		EKM60UNV	+UA22	467	330	
		EK12032		270	336	
		EK12042		272	336	
		EK120U		274	336	
		EK135FT	+UA15T	276	336	
	EK120UNV	+UA12T	469	336		
	50-240	EKM60ID		268		
Hydraulic crimping systems	10-185	THK18		294	325	
	10-300	THK22		296	330	
	10-500	HK252	+25A13	308	336 + 340	
	150-500	HK45		309	342	
Hydraulic crimping heads	10-185	PK18		294	325	
		PK60UNV	+UA18	466	325	
	10-300	PK22		296	330	
		PK60UNV	+UA22	466	330	
		PK12042		300	336	
		PK120U		302	336	
	10-500	PK252	+25A13	304	336 + 340	
	150-500	PK45		306	342	

UNCOMPLICATED - CLAMPS AND SCREW CONNECTORS

Simple connecting of dissimilar materials and cross-sections. Made possible by Klauke clamps and screw connectors: They suit all standard sizes and materials. In compliance with the specified safety measures, compact tab connectors, for instance, can be installed even when live. All very straightforward.



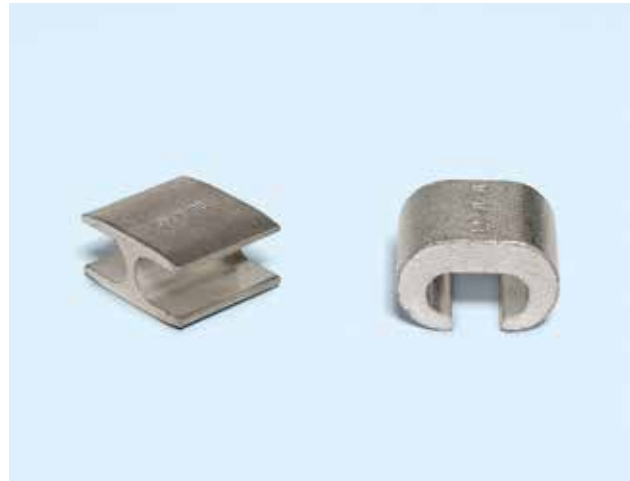
In brief

- ▶ Simple branching without having to cut the main conductor with Klauke H and C clamps
- ▶ H clamps to DIN EN 50164-1 short-circuit current tested
- ▶ Also available in a barrier version for Al/Cu connections

▶ Continuously connected

Save yourself the trouble, the conductor does not need to be cut. Various nominal cross-sections can be clamped with multi-purpose clamps.

- Flexible due to the large cross-sectional range, C-clamps from 2.5 mm² to 185 mm² nominal cross-sections, H-clamps from 70 mm² nominal cross-section
- Efficient connections, without having to cut the main conductor.
- Straightforward connection of various cross-sections.



▶ Screwing instead of crimping

Connect the conductors using screws. Why? Because no special tools are needed. Screws are available for every application. To make sure they last, all our screw connectors are produced from high-quality materials. Simply an efficient solution!

- Connections from 2.5 mm² to 185 mm² nominal cross-section
- No special tool required
- The right screw solution to suit a host of requirements
- For aluminium and copper conductors
- For round and sector shaped conductors
- For conductors and wires

▶ Clamps for continuous supply

We don't abandon your supply. With Klauke clamps, your operation can continue without outage, you carry out the installation even while live. No standstill, the operation continues.

- Especially suitable for the energy supply industry
- Can be installed while live
- Main conductor remains intact
- Different versions available for 3 and 4 core cables



Punched cable lugs, Cu



► For connecting of round conductors to DIN EN 60228 Cl. 1 and 2, for example in lightning protection areas

Characteristics

- Also for outdoor assembly
- Available with 2 or 4 screws

Material

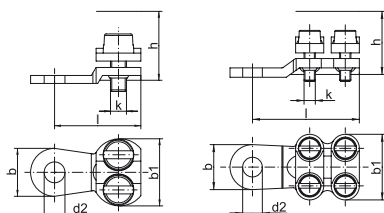
- Copper (ETP)
- Screws: DIN 84 / DIN 933 bronze, F 60

Surface

- Tin-plated to protect against corrosion

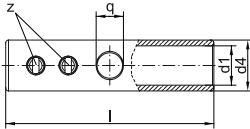
Technical instructions

- Possible as a special bright version on request. Part Number appendix „BK“



Nominal cross section mm ²	Part No.	Dimension mm						Number of screws	Torque Nm	Weight/pcs. ~kg	Packing unit/pcs
		b	b1	d2	k	h	l				
6 - 10	572R6	15.0	18.0	6.5	M4	10	23.0	2	4	1.30	50
10 - 16	573R6	15.0	20.5	6.5	M5	14	27.0	2	6	1.30	50
	573R8	15.0	20.5	8.5	M5	14	27.0	2	6	1.30	50
16 - 25	574R8	15.0	25.0	8.5	M5	16	30.0	2	6	2.75	50
	584R8	18.5	22.5	8.5	M5	16	36.0	4	6	3.70	25
25 - 35	584R10	19.5	22.5	10.5	M5	16	37.0	4	6	3.75	25
	575R8	18.5	24.0	8.5	M5	16	25.5	2	6	2.50	50
35 - 50	585R8	18.5	24.0	8.5	M5	16	38.5	4	6	4.30	25
	585R10	21.5	24.0	10.5	M5	16	42.0	4	6	4.65	25
50 - 70	585R12	21.5	24.0	13.0	M5	16	42.0	4	6	4.50	25
	586R10	19.0	28.0	10.5	M6	19	46.0	4	8	6.75	25
70 - 95	586R12	21.0	28.0	13.0	M6	19	47.0	4	8	6.70	25
	587R10	23.5	31.0	10.5	M6	19	51.0	4	8	9.35	10
95 - 150	587R12	23.5	31.0	13.0	M6	19	51.0	4	8	9.30	10
	588R10	24.0	34.0	10.5	M6	25	57.0	4	8	12.00	10
150 - 240	588R12	24.0	34.0	13.0	M6	25	57.0	4	8	11.85	10
	589R10	30.0	42.0	10.5	M8	32	61.0	4	20	20.15	10
185 - 300	589R12	30.0	42.0	13.0	M8	32	61.0	4	20	20.20	10
	589R16	30.0	42.0	17.0	M8	32	61.5	4	20	20.10	10
150 - 240	590R10	34.0	48.5	10.5	M8	32	68.5	4	20	24.40	5
	590R12	34.0	48.5	13.0	M8	32	68.5	4	20	24.35	5
185 - 300	590R16	34.0	48.5	17.0	M8	32	68.5	4	20	24.30	5
	592R12	32.0	50.0	13.0	M8	37	68.5	4	20	27.95	5
	592R16	32.0	50.0	17.0	M8	37	68.5	4	20	28.00	5

Tubular soldering sleeves, CuZn



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 1, 2, 5 and 6
- ▶ Processed without using a crimping tool



Characteristics

- Simple processing due to fixed screws and solder hole



Material

- CuZn 40 Pb 2
- Screws: Steel to DIN 551



Surface

- Tin-plated to protect against corrosion

Technical instructions

- A connection needs to be soldered

Nominal cross section mm ²	Part No.	Dimension mm				Number of set screws z	Weight/pcs. ~kg	Packing unit/pcs
		d1	d4	l	Diameter q			
6	551R	3.5	7	25	3.3	2	0.60	10
10	552R	4.5	6	30	3.3	2	1.20	10
16	553R	5.5	10	40	4.2	4	1.90	10
25	554R	7.0	12	45	4.2	4	2.85	10
35	555R	8.5	13	45	5.0	4	3.00	10
50	556R	10.0	15	48	5.0	4	4.00	10
70	557R	12.0	18	52	6.8	4	6.30	10
95	558R	13.5	20	55	6.8	4	8.05	10
120	559R	15.0	22	60	6.8	4	9.90	10



Parallel groove clamps, Cu, 2 screws



- ▶ For screwing conductors acc. to DIN EN 60228 Cl. 1 and 2
- ▶ For non-tension copper cables acc. to DIN 48201 part 1



Characteristics

- Also for outdoor assembly
- Version with 2 screws



Material

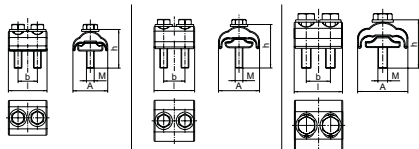
- Copper (ETP)
- Screws: V2A

Surface

- Bright

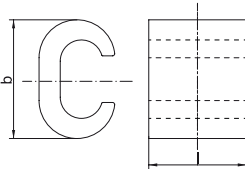
Technical instructions

- When connecting cross sections 95, 120 and 150 mm² two power branch clamps are to be used due to the current carrying capacity.



Nominal cross section mm ²	Part No.	Dimension mm			A	M	Torque Nm	Weight/pcs. ~kg	Packing unit/ pcs
		b	h	l					
6 - 70	SAK670	36	40	40	20	M8	23	18,16	5
10 - 95	SAK1095	42,5	45	42	22	M8	20	24,15	5
16 - 150	SAK16150	52	50	50	25	M10	39	39,25	5

Branch clamps in C-type, Cu



- ▶ For non-tension copper cables, e.g. to DIN 48201-1
- ▶ Ideal for clamping identical conductor cross-sections e.g. to VDE 60228 Cl. 1 and 2
- ▶ No need to cut the main conductor

Material

- Copper (ETP)

Surface

- Tin-plated to protect against corrosion

Technical instructions

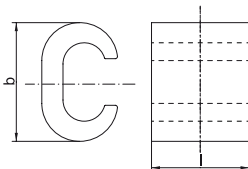
- Optimum conducting characteristics in combination with compound
- Tool: see page 133

Additional information

- Part Number appendix for bright version „BK“
- rm = round multi-stranded; re = round single solid
- * = Also suitable for 25 mm² round solid

Part No.	Hint	Cross section main conductor mm ² rm/re		Hint	Dimension mm		Weight/pcs. ~kg	Packing unit/pcs
		Main conductor	Tab conductor		b	l		
CK16		16/25	16/25		16.0	15	0.94	25
CK25	*	25/35	25/35	*	20.2	16	1.68	25
CK35		35/50	35/50		25.7	22	3.42	25
CK50		50/-	50/-		28.0	23	4.88	25
CK70		70/-	70/-		34.16	28	9.69	10
CK95		95/-	95/-		35.0	25	7.30	10

Branch clamps in C-type, Cu, multi-purpose clamps



- ▶ For non-tension copper cables, e.g. to DIN 48201-1
- ▶ Ideal for clamping non-identical conductor cross-sections e.g. to VDE 60228 Cl. 1 and 2
- ▶ No need to cut the main conductor

Material

- Copper (ETP)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Optimum conducting characteristics in combination with compound
- Tool: see page 133

Additional information

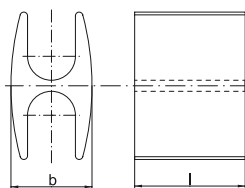
- Part Number appendix for bright version „BK“
- rm = round multi-stranded; re = round single solid

Part No.	Cross section main conductor mm ² rm/re		Dimension mm		Weight/pcs. ~kg	Packing unit/pcs
	Main conductor	Tab conductor	b	l		
MCK1010	6 - 10/10	4 - 6/4 - 10	11.8	12	0.460	25
MCK1016	10 - 16/16	4 - 10/4 - 10	19.1	17	1.900	25
MCK1025	16 - 25/25	4 - 10/4 - 10	19.3	17	1.900	25
MCK3535	16 - 25/25 - 35	16 - 25/16 - 35	20.4	17	1.750	25
MCK2550	35/50	4 - 25/4 - 25	24.6	23	4.400	25
MCK5050	35/50	16 - 35/25 - 50	26.5	23	4.200	25
MCK3570	50 - 70/-	4 - 35/4 - 35	33.8	28	10.700	10

Branch clamps in C-type, Cu, multi-purpose clamps

Part No.	Cross section main conductor mm ² rm/re		Dimension mm		Weight/pcs. ~kg	Packing unit/pcs
	Main conductor	Tab conductor	b	l		
MCK3595	95/-	16 - 35	41.0	30	15.000	10
MCK7095	95/-	35 - 70	41.0	30	14.000	10
MCK120120	120/-	35 - 120	45.0	30	16.550	10
MCK150150	150/-	70 - 150	53.0	35	23.000	5
MCK185185	185/-	95 - 185	60.0	40	33.000	5

Branch clamps in H-type, Cu



- ▶ For non-tension copper cables, e.g. to DIN 48201-1
- ▶ Ideal for clamping identical conductor cross-sect. e.g. to DIN EN 60228 Cl. 1 and 2
- ▶ Lightning protection tested to EN 50164-1
- ▶ No need to cut the main conductor

Characteristics

- H-shape allows simple processing
- Optimum conducting characteristics when used with compound

Material

- Copper (ETP)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 134

Additional information

- Part Number appendix for bright version „BK“
- * = To EN 50164-1 lightning current tested

Part No.	Cross section main conductor mm ² rm/re		Hint	Dimension mm		Weight/pcs. ~kg	Packing unit/pcs
	Main conductor	Tab conductor		b	l		
AH7070	70	70	*	17.0	28.0	6.5	25
AH9595	95	95		22.0	30.0	10.0	25
AH120120	120	120		24.0	25.0	9.8	25

Compound for branch clamps



- ▶ Optimum conductivity properties for processing aluminium cable lugs and connectors and branch clamps (C and H-type)

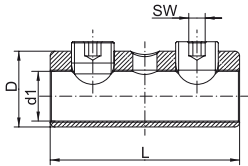
Characteristics

- Water-resistant, with corundum for destroying the oxidation layer
- Content/tin: 0.125 kg

Part No.

KF125

Screw connectors for shielded copper wires



- ▶ For connecting different conductor types and materials, e.g. to DIN EN 60228 Class 1 and 2
- ▶ Ideal for connecting identical and different conductor cross-sections
- ▶ Suitable cross-section range for example shielded copper wires

Characteristics

- Special groove profile inside to destroy the oxidation layer when crimping
- With inspection hole for monitoring full cable insertion

Material

- Insulated body: brass (CuZn)
- Screws: stainless steel, tin-plated

Surface

- Tin-plated to protect against corrosion

Technical instructions

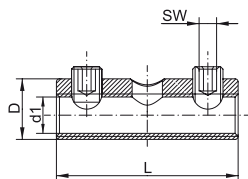
- Refer to the installation instructions in the technical appendix on page i-8

Additional information

- rm = round multi-stranded; re = round single solid

Part No.	Nominal cross section mm ²		Dimension mm				Torque Nm	Weight/pcs. ~kg	Packing unit/ pcs
	re	rm	D	d1	L	AF			
SV100	6 - 35	6 - 25	14	7.2	40	4	10	3.9	4

Screw connectors for street lighting



- ▶ For connecting different conductor types and materials, e.g. to DIN EN 60228 Class 1 and 2
- ▶ Ideal for connecting identical and different conductor cross-sections
- ▶ Suitable cross-section range for street lighting

Characteristics

- Special groove profile inside to destroy the oxidation layer when crimping
- With inspection hole for monitoring full cable insertion

Material

- Insulated body: brass (CuZn)
- Screws: stainless steel, tin-plated

Surface

- Either bright or tin-plated

Technical instructions

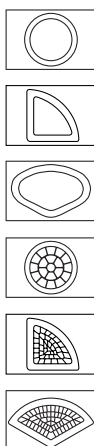
- Refer to the installation instructions in the technical appendix on page i-8

Additional information

- rm = round multi-stranded; re = round single solid

Part No.	Nominal cross section mm ²		Dimension mm				Torque Nm	Weight/pcs. ~kg	Packing unit/ pcs
	re	rm	D	d1	L	AF			
With threaded pin, tin-plated									
SV200	1.5 - 16	1.5 - 16	10	5.5	30	2.5	4	1.35	4
With threaded pin, bright finished									
SV200BK	1.5 - 16	1.5 - 16	10	5.5	30	2.5	4	1.35	4

Screw connector with 2 screws



- ▶ For connecting various conductor types and materials, e.g. to DIN EN 60228 Cl. 1 and 2
- ▶ Ideal for connecting identical and different conductor cross-sections
- ▶ Reliable processing due to cable insertion control (dissimilar materials must not come into contact)

Characteristics

- Special groove profile inside to destroy the oxidation layer when crimping
- Either with threaded pin or shear head, shear head partly fixed
- Version with 2 screws

Material

- Insulated body: high-tensile aluminium alloy
- Screws: copper alloy, tin-plated

Surface

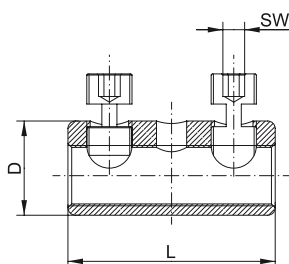
- Either bright or tin-plated

Technical instructions

- Refer to the installation instructions in the technical appendix on page i-8

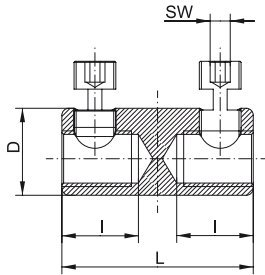
Additional information

- * = fixed version, Part Number appendix „NL“
- ** = version with fixed countersink shear head, Part Number appendix „VK“
- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, (r) = pre-rounded, (v) = compacted



Part No.	Nominal cross section mm ²				Hint	Dimension mm			Torque Nm	Weight/ pcs. ~kg	Packing unit/pcs
	re	rm	se	sm		D	L	AF			
With threaded pin, bright finished											
SV303	6 - 35	6 - 25, Cu 2.5 - 50 (v)	--	Cu 2.5 - 35		14	40	4	8	1.5	4
SV300	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 35 Al 10 - 35	Cu 2.5 - 35 Al 10 - 35		16.5	40	4	9	1.7	4
SV301	16 - 95	16 - 95	50 - 95	35-95 (r), 35-70		25	55	5	20	6.6	4
SV308	25 - 150	25 - 150	50 - 150 (90°), 50 - 150 (120°)	--		28	70	6	25	11.3	4
SV302	35 - 50	35 - 185	50 - 185 (90°)	35 - 150		32	80	6	25	16	4
Without threaded pin, bright finished											
SV303V	6 - 35	6 - 25, Cu 2.5 - 50 (v)	--	Cu 2.5 - 35		14	40	4	8	1.5	4
SV300V	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 35 Al 10 - 35	Cu 2.5 - 35 Al 10 - 35		16.5	40	4	9	1.7	4
SV307V	50 - 70	10 - 70	50 - 70	35 - 70, 35 - 70		22	57	5	15	4.7	4
SV301V	16 - 95	16 - 95	50 - 95	35-95 (r), 35-70		25	55	5	20	6.6	4
SV302V	35 - 50	35 - 185	50 - 185 (90°)	35 - 150		32	80	6	25	16	4
With shear head, bright finished											
SV303AK	6 - 35	6 - 25	--	--	*	14	40	4	8	1.5	4
SV303AKNL	6 - 35	6 - 25, Cu 2.5 - 50 (v)	--	Cu 2.5 - 35	*	14	40	4	8	1.5	4
SV304AKNL	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 35 Al 10 - 35	Cu 2.5 - 35 Al 10 - 35		16.5	40	4	9	1.7	4
SV307AKNL	10 - 70	10 - 70	50 - 70	35 - 70, 35 - 70		22	57	5	15	4.7	4
SV301AK	16 - 95	16 - 95	50 - 95, 50 - 150 (120°)	35 - 95 (r), 35 - 150		25	55	5	20	6.6	4
SV302AK	35 - 50	35 - 185	50 - 185 (90°)	35 - 150		32	80	6	25	16	4
With shear head, tin - plated											
SV304AKNLV	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 35 Al 10 - 35	Cu 2.5 - 35 Al 10 - 35		16.5	40	4	9	1.7	4
SV301AKV	16 - 95	16 - 95	50 - 95	35 - 70, 35 - 95 (r)	**	25	55	5	20	6.6	4
SV302AKV	35 - 50	35 - 185	50 - 150 (120°), 50 - 185 (90°)	35 - 150		32	80	6	25	16	4

Screw connector with barrier



- ▶ For connecting various conductor types and materials, e.g. to DIN EN 60228 Cl. 1 and 2
- ▶ Ideal for connecting identical and different conductor cross-sections

Characteristics

- Special groove profile inside to destroy the oxidation layer when crimping
- Either with threaded pin or shear head, shear head partly fixed
- Version with 2 screws and barrier

Material

- Insulated body: high-tensile aluminium alloy
- Screws: copper alloy, tin-plated

Surface

- Either bright or tin-plated

Technical instructions

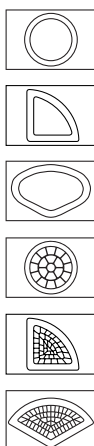
- Refer to the installation instructions in the technical appendix on page i-8

Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, (r) = pre-rounded, (v) = compacted

Part No.	Nominal cross section mm ²				Hint	Dimension mm				Torque Nm	Weight/pcs. ~kg	Packing unit/pcs
	re	rm	se	sm		D	I	L	AF			
With threaded pin, bright finished												
SV315	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 35 Al 10 - 35	Cu 2.5 - 35 Al 10 - 35		16	17.5	40	4	9	1.7	4
SV309	16 - 95	16 - 95	50 - 95	35-95 (r), 35-70		25	22	55	5	20	6.6	4
SV320	25 - 150	25 - 150	50 - 150 (90°), 50 - 150 (120°)	35 - 150		28	31	70	6	25	11.3	4
SV310	35 - 50	35 - 185	50 - 185 (90°)	35 - 185 (r)		32	32	80	6	25	16	4
With threaded pin, tin-plated												
SV315V	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 35 Al 10 - 35	Cu 2.5 - 35 Al 10 - 35		16	17.5	40	4	9	1.7	4
SV309V	16 - 95	16 - 95	50 - 95	35-95 (r), 35-70		25	22	55	5	20	6.6	4
SV320V	25 - 150	25 - 150	50 - 150 (90°), 50 - 150 (120°)	--		28	31	70	6	25	11.3	4
SV310V	35 - 50	35 - 185	50 - 185 (90°)	35 - 185 (r)		32	32.5	80	6	25	16	4
With shear head, bright finished												
SV311AKNL	6 - 35	6 - 25, Cu 2.5 - 50 (v)	--	Cu 2.5 - 35		14	17.5	40	4	8	1.5	4
SV312AKNL	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 35 Al 10 - 35	Cu 2.5 - 35 Al 10 - 35		16	17.5	40	4	9	1.7	4
SV309AK	16 - 95	16 - 95	50 - 95	35-95 (r), 35-70		25	22	55	5	20	6.6	4
SV310AK	35 - 50	35 - 185	50 - 185 (90°)	35 - 185 (r)		32	32.5	80	6	25	16	4
With shear head, tin-plated												
SV312AKNLV	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 35 Al 10 - 35	Cu 2.5 - 35 Al 10 - 35		16	17.5	40	4	9	1.7	4
SV319AKNLV	10 - 70	10 - 70	50 - 70	35 - 70		22	24	57	5	15	7.6	4
SV309AKV	16 - 95	16 - 95	50 - 95	35-95 (r), 35-70	*	25	22	55	5	20	6.6	4
SV310AKV	35 - 50	35 - 185	50 - 185 (90°)	35 - 185 (r)	*	32	32.5	80	6	25	16	4

Screw connector with 4 screws



- ▶ For connecting various conductor types and materials, e.g. to DIN EN 60228 Cl. 1 and 2
- ▶ Ideal for connecting identical and different conductor cross-sections
- ▶ Reliable processing due to cable insertion control (dissimilar materials must not come into contact)

Characteristics

- Special groove profile inside to destroy the oxidation layer when crimping
- Available with threaded pin or shear head
- Version with 4 screws

Material

- Insulated body: high-tensile aluminium alloy
- Screws: copper alloy, tin-plated

Surface

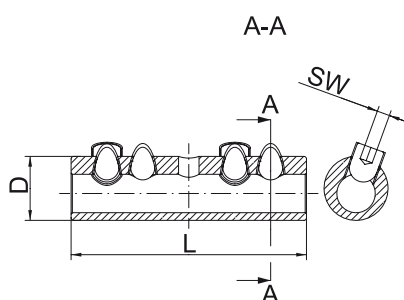
- Either bright or tin-plated

Technical instructions

- Refer to the installation instructions in the technical appendix on page i-8

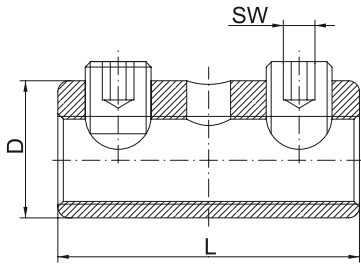
Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded



Part No.	Nominal cross section mm ²				Dimension mm			Torque Nm	Weight/pcs. ~kg	Packing unit/pcs
	re	rm	se	sm	D	L	AF			
With threaded pin, bright finished										
SV305	16 - 95	16 - 95	50 - 95	35-95 (r), 35-70	25	92	5	20	12	4
SV306	35 - 50	35 - 185	50 - 150 (120°), 50 - 185 (90°)	35 - 185 (r)	32	108	6	25	25	4
With threaded pin, tin-plated										
SV305V	16 - 95	16 - 95	50 - 95	35-95 (r), 35-70	25	92	5	20	12	4
SV306V	35 - 50	35 - 185	50 - 150 (120°), 50 - 185 (90°)	35 - 150, 35 - 185 (r)	32	108	6	25	25	4
With shear head, bright finished										
SV305AK	16 - 95	16 - 95	50 - 95	35 - 70, 35 - 70 (r)	25	92	5	20	12	4
SV306AK	35 - 50	35 - 185	50 - 150 (120°), 50 - 185 (90°)	35 - 150, 35 - 185 (r)	32	108	6	25	25	4
With shear head, tin-plated										
SV305AKV	16 - 95	16 - 95	50 - 95	35-95 (r), 35-70	25	92	5	20	12	4
SV306AKV	35 - 50	35 - 185	50 - 150 (120°), 50 - 185 (90°)	35 - 150, 35 - 185 (r)	32	108	6	25	25	4

Insulated screw connector



- ▶ For connecting various conductor types and materials, e.g. to DIN EN 60228 Cl. 1 and 2
- ▶ Ideal for connecting identical and different conductor cross-sections
- ▶ Reliable processing due to cable insertion control (dissimilar materials must not come into contact)

Characteristics

- Special groove profile inside to destroy the oxidation layer when crimping
- Insulated body
- Version with 2 screws, without barrier
- Available with threaded pin or shear head

Material

- Insulated body: high-tensile aluminium alloy
- Screws: copper alloy, tin-plated

Surface

- Either bright or tin-plated

Technical instructions

- Refer to the installation instructions in the technical appendix on page i-8

Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded

Part No.	Nominal cross section mm ²				Dimension mm			Torque Nm	Weight/pcs. ~kg	Packing unit/pcs
	re	rm	se	sm	D	L	AF			
With threaded pin, bright finished										
SV400	6 - 35	6 - 25	50 - 70 (120°)	35 - 70	14	60	4	8	1.7	4
SV410	16-95	16-95	50-95	35-95 (r), 35-70	28.2	58.2	5	20	6	4
With threaded pin, tin-plated										
SV405V	10 - 70	10 - 70	50 - 70, 50 - 150 (120°)	35 - 70, 35 - 150	25	87	5	15	5	4
SV420V	35 - 50	35 - 185	50 - 185 (90°)	35 - 185 (r)	36	84	6	25	14.5	4
With shear head, bright finished										
SV410AK	16-95	16-95	50-95	35-95 (r), 35-70	28.2	58.2	5	20	6	4



Screw connector with barrier



► For connecting various conductor types and materials, e.g. to DIN EN 60228 Cl. 1 and 2

► Ideal for connecting identical and different conductor cross-sections

Characteristics

- Special groove profile inside to destroy the oxidation layer when crimping
- Insulated body
- Either with threaded pin or shear head, shear head partly fixed
- Version with 2 screws and barrier

Material

- Insulated body: high-tensile aluminium alloy
- Screws: copper alloy, tin-plated

Surface

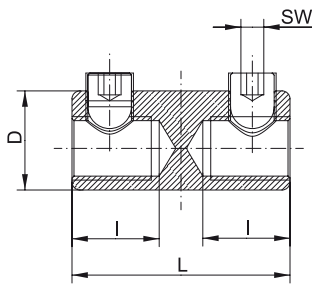
- Either bright or tin-plated

Technical instructions

- Refer to the installation instructions in the technical appendix on page i-8

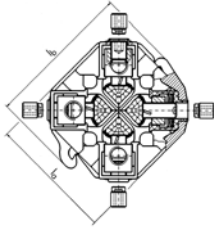
Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, (r) = pre-rounded, (v) = compacted



Part No.	Nominal cross section mm ²				Dimension mm				Torque Nm	Weight/ pcs. ~kg	Packing unit/pcs
	re	rm	se	sm	D	I	L	AF			
With threaded pin, bright											
SV430	16-50	16-95	50 - 70 (120°), 50 - 95 (90°)	35 - 70, 35 - 95 (r)	28.2	23.6	58.2	5	20	6.6	4
With shear head, bright											
SV430AK	16 - 50	16 - 95	50 - 70 (120°), 50 - 95 (90°)	35 - 70, 35 - 95 (r)	28.2	23.6	58.2	5	20	6.6	4
SV440AK	35 - 50	35 - 185	50 - 150 (120°), 50 - 185 (90°)	35 - 150, 35 - 185 (r)	36	34.5	84	6	25	16.0	4

Compact tap connectors with shear heads, four conductor cables



- ▶ Suitable for main and branch conductors made from Al and Cu
- ▶ No need to cut the main conductor
- ▶ For use e.g. with energy suppliers

Characteristics

- VDE: can be installed under voltage with corresponding fully insulated assembly tools
- With shear heads for the main conductor, fixed

Technical instructions

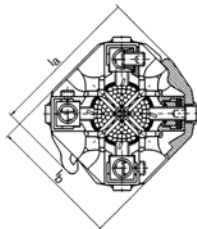
- A mounting instruction is included with every clamp

Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded
- Creepage and elongation processes are compensated for by spring washers
- Sequence of contacting can be freely determined

Part No.	Main conductor		Tap conductor		Dimension mm				Torque Nm	Weight/pcs. ~kg	Packing unit/pcs
	se	sm	se	sm	la	lb	Width	AF			
KSK1504	70 - 150	150	95 (r)	6-70 (r)	107	90	50	20	20	0.63	1
KSK1854	185	70-150	50	6-35	107	90	52	20	20	0.58	1

Compact tap connectors, four conductor cables, for main conductor 25 - 50 mm²



- ▶ Suitable for main and branch conductors made from Al and Cu
- ▶ No need to cut the main conductor
- ▶ For use e.g. with energy suppliers

Characteristics

- VDE: can be installed under voltage with corresponding fully insulated assembly tools

Technical instructions

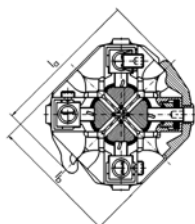
- A mounting instruction is included with every clamp

Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded
- Creepage and elongation processes are compensated for by spring washers
- Sequence of contacting can be freely determined

Part No.	Main conductor			Tap conductor		Dimension mm				Torque Nm	Weight/pcs. ~kg	Packing unit/pcs
	se	sm	rm	se	sm	la	lb	Width	AF			
KSK504	Cu 25 - 50, Al 35 - 50	Cu 25 - 50	Cu 25 - 50	50	6-35	88	75	50	5	15	0.46	1

Compact tap connectors, four conductor cables, for main conductor 70 - 185 mm²



- ▶ Suitable for main and branch conductors made from Al and Cu
- ▶ No need to cut the main conductor
- ▶ For use e.g. with energy suppliers



Characteristics

- VDE: can be installed under voltage with corresponding fully insulated assembly tools
- With threaded pins for the main conductor



Technical instructions

- A mounting instruction is included with every clamp

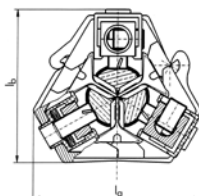


Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded
- Creepage and elongation processes are compensated for by spring washers
- Sequence of contacting can be freely determined

Part No.	Main conductor			Tap conductor			Dimension mm				Torque Nm	Weight/ pcs. ~kg	Packing unit/pcs
	se	sm	re	se	sm	rm	la	lb	Width	AF			
SKR1204	120	70 - 95		50 (r)	6 - 35 (r)		90	77	50	5	20	0.46	1
SKR150504	150	70 - 150	50	50	6 - 35		93	80	50	5	20	0.46	1
SKR1504	70 - 150	150		95 (r)	6 - 70 (r)		107	90	46	5	20	0.62	1
SKR1501504	95 - 150	150		150	16 - 120	16 - 120	118	118	93	5	20	1.34	1
SKR1854	185	95 - 150		95 (r)	6 - 70		107	96	46	5	20	0.58	1

Compact tap connectors, three conductor cables



- ▶ Suitable for main and branch conductors made from Al and Cu
- ▶ No need to cut the main conductor
- ▶ For use e.g. with energy suppliers



Characteristics

- VDE: can be installed under voltage with corresponding fully insulated assembly tools
- With threaded pins for the main conductor



Technical instructions

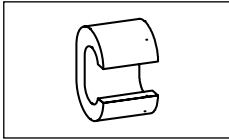
- A mounting instruction is included with every clamp



Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded

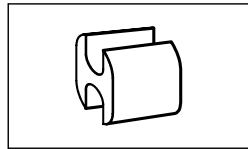
Part No.	Main conductor				Tap conductor		Dimension mm					Thread DIN 13	Weight/ pcs. ~kg	Packing unit/pcs
	se	sm	rm	re	se	sm	la	lb	Width	Bolts Circle dia.	AF			
SKR1503	70 - 150	70 - 150	70 - 150	70 - 150	6 - 70	6 - 95	84	76	45	90	5	M10x1/ M10	0.38	1



Tool application chart

C-Clamps

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	4 - 35	K354		236	317	○
	4 - 50	K18		238	325	○
	4 - 70	K22		240	331	○
Hand hydraulic crimping tools	4 - 50	HK6018		280	325	○
		HK60UNV	+UA18	465	325	○
	4 - 70	HK6022		282	331	○
		HK60UNV	+UA22	465	331	○
	10 - 70	HK12030		286	337	○
		HK12042		288	337	○
HK120U			290	337	○	
Battery powered crimping tools	4 - 35	EK354ML		250	317	○
		EK354		256	317	○
	4 - 70	EK505		258	321	○
	4 - 50	EK5018		260	325	○
		EK60UNV	+UA18	468	325	○
		EKM60UNV	+UA18	467	325	○
	4 - 70	EK6022		264	331	○
		EKM6022		262	331	○
		EK60UNV	+UA22	468	331	○
		EKM60UNV	+UA22	467	331	○
	10 - 70	EK12032		270	337	○
		EK12042		272	337	○
		EK120U		274	337	○
		EK135FT	+UA15T	276	337	○
		EK120UNV	+UA12T	469	337	○
Hydraulic crimping systems	4 - 50	THK18		294	325	○
	4 - 70	THK22		296	331	○
	10 - 185	HK252	+25A13	308	337 + 341	○
Hydraulic crimping heads	4 - 50	PK18		294	325	○
		PK60UNV	+UA18	466	325	○
	4 - 70	PK22		296	331	○
		PK60UNV	+UA22	466	331	○
	10 - 70	PK12042		300	337	○
		PK120U		302	337	○
	10 - 185	PK252	+25A13	304	337 + 341	○



Tool application chart

H-Clamps

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	70	K22		240	331	○
Hand hydraulic crimping tools	70	HK6022		282	331	○
	70 - 120	HK12030		286	337	○
		HK12042		288	337	○
		HK120U		290	337	○
Battery powered crimping tools	70	EK6022		264	331	○
		EKM6022		262	331	○
		EK60UNV	+UA22	468	331	○
	70 - 120	EK12032		270	337	○
		EK12042		272	337	○
		EK120U		274	337	○
		EK135FT	+UA15T	276	337	○
		EK120UNV	+UA12T	469	337	○
Hydraulic crimping systems	70	THK22		296	331	○
	70 - 120	HK252	+25A13	308	337 + 341	○
Hydraulic crimping heads	70	PK22		296	331	○
	70 - 120	PK12042		300	337	○
		PK120U		302	337	○
		PK252	+25A13	304	337 + 341	○



PROTECTION - CABLE END-SLEEVES, INSULATED AND NON-INSULATED

Klauke joins together what belongs together. Cable end-sleeves prevent the conductors splicing before they are connected in clamps. All wires remain together. Easy-Entry insulation speeds up the insertion of wires into the sleeve. Fine-stranded conductors in particular benefit from a special trapezoidal crimp. No splicing, no time wasted. Your conductors are protected and can be cleanly processed



In brief

- ▶ Stops conductors splicing
- ▶ Improved contact
- ▶ No risk of short-circuit due to bent strands
- ▶ Produced from high-quality copper
- ▶ Surface treatment with tin or in special versions with silver

► Simple diversity

We have to admit: Cable end-sleeves are a simple product. Due to the differing crimp shapes in the range and the high-quality materials used in production, the sleeves are just incredibly good.

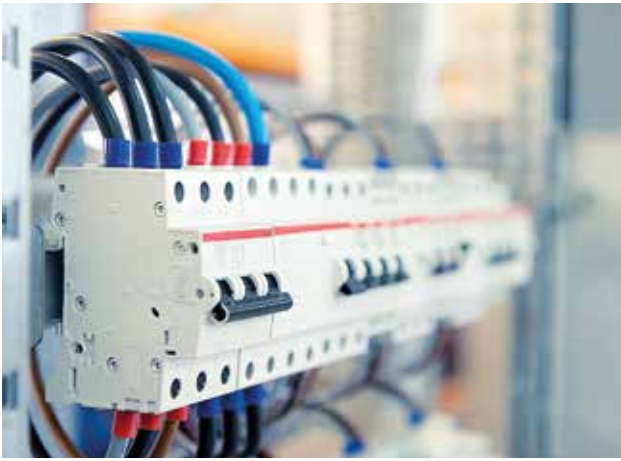
- Broad range: To DIN standards, for short circuit-resistant conductors, in various lengths, with and without insulating collars

- Marked to DIN colour code
- Twin cable end-sleeves for connecting in confined areas
- High-quality material for optimum conducting properties
- CSA-approved

► Always the right crimp shape

We give every cable end-sleeve its perfect crimp shape. No matter where the conductor is to be laid later, we have a solution for you.

- The correct crimp shape for every connecting terminal
- Crimp shapes matched to the DIN dimensions
- For compacted conductors
- Connect without risk of short-circuit



The easy-entry insulation enables fast insertion of conductors with no splicing.

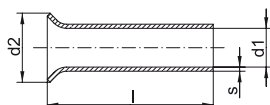
► Easy-Entry insulation

The special Easy-Entry insulation makes it easier to insert the conductor into the sleeves. In addition, the insulation is highly-resistant, to temperatures of up to 105 °C for example.

- Easy-Entry insulation for convenient insertion of the conductor
- Temperature-resistant to 105 °C
- No toxic vapours in case of fire
- Ageing-resistant plastic collars



Cable end-sleeves to DIN, Cu



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Optimal cable entry due to widened sleeve



Characteristics

- To DIN 46228, part 1 and similar



Material

- Copper

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 148

Additional information

- Silvered version also available, without Part Number appendix "V", exception: Part Number 705V in silvered version = Part No. 7050
- * = not standardised

Nominal cross section mm ²	Part No.	Hint	Dimension mm				Weight/1000 pcs. ~ kg	Packing unit/pcs
			d1	d2	l	s		
0.25	695V	*	0.75	1.7	5	0.15	0.02	1000
	697V	*	0.75	1.7	7	0.15	0.03	1000
0.34	705V	*	0.85	1.8	5	0.15	0.02	1000
	707V	*	0.85	1.8	7	0.15	0.03	1000
0.5	71S6V		1.00	2.1	6	0.15	0.03	1000
	71S8V	*	1.00	2.1	8	0.15	0.04	1000
	71S10V		1.00	2.1	10	0.15	0.05	1000
0.75	716V		1.20	2.3	6	0.15	0.04	1000
	718V	*	1.20	2.3	8	0.15	0.05	1000
	7110V		1.20	2.3	10	0.15	0.06	1000
	7112V	*	1.20	2.3	12	0.15	0.08	1000
	7115V	*	1.20	2.3	15	0.15	0.09	1000
1	72S6V		1.40	2.5	6	0.15	0.04	1000
	72S8V	*	1.40	2.5	8	0.15	0.06	1000
	72S10V		1.40	2.5	10	0.15	0.07	1000
	72S12V	*	1.40	2.5	12	0.15	0.08	1000
	72S15V	*	1.40	2.5	15	0.15	0.10	1000
1.5	726V	*	1.70	2.8	6	0.15	0.05	1000
	727V		1.70	2.8	7	0.15	0.06	1000
	728V	*	1.70	2.8	8	0.15	0.07	1000
	7210V		1.70	2.8	10	0.15	0.09	1000
	7212V		1.70	2.8	12	0.15	0.10	1000
	7215V	*	1.70	2.8	15	0.15	0.13	1000
	7218V		1.70	2.8	18	0.15	0.15	1000
	7220V	*	1.70	2.8	20	0.15	0.17	1000
2.5	737V		2.20	3.4	7	0.15	0.08	1000
	738V	*	2.20	3.4	8	0.15	0.09	1000
	7310V		2.20	3.4	10	0.15	0.11	1000
	7312V		2.20	3.4	10	0.15	0.13	1000
	7315V	*	2.20	3.4	15	0.15	0.17	1000
	7318V		2.20	3.4	18	0.15	0.20	1000
	7320V	*	2.20	3.4	20	0.15	0.22	1000

Cable end-sleeves to DIN, Cu

Nominal cross section mm ²	Part No.	Hint	Dimension mm				Weight/ 1000 pcs. ~ kg	Packing unit/pcs
			d1	d2	l	s		
4	748V	*	2.80	4.0	9	0.20	0.14	1000
	749V		2.80	4.0	9	0.20	0.16	1000
	7410V	*	2.80	4.0	10	0.20	0.17	1000
	7412V		2.80	4.0	12	0.20	0.20	1000
	7415V		2.80	4.0	15	0.20	0.27	1000
	7418V		2.80	4.0	18	0.20	0.32	1000
	7420V	*	2.80	4.0	20	0.20	0.35	1000
6	7510V		3.50	4.7	10	0.20	0.23	100
	7512V		3.50	4.7	12	0.20	0.27	100
	7515V		3.50	4.7	15	0.20	0.34	100
	7518V		3.50	4.7	18	0.20	0.40	100
	7520V	*	3.50	4.7	20	0.20	0.45	100
	7525V	*	3.50	4.7	25	0.20	0.56	100
10	7610V	*	4.5	5.8	10	0.2	0.27	100
	7612V		4.5	5.8	12	0.2	0.33	100
	7615V		4.5	5.8	15	0.2	0.41	100
	7618V		4.5	5.8	18	0.2	0.49	100
	7620V	*	4.5	5.8	20	0.2	0.55	100
	7625V	*	4.5	5.8	25	0.2	0.68	100
16	7712V		5.8	7.5	12	0.2	0.43	100
	7715V		5.8	7.5	15	0.2	0.53	100
	7718V		5.8	7.5	18	0.2	0.60	100
	7720V	*	5.8	7.5	20	0.2	0.70	100
	7725V		5.8	7.5	25	0.2	0.87	100
	7732V		5.8	7.5	32	0.2	1.11	100
25	7812V	*	7.3	9.5	12	0.2	0.80	50
	7815V		7.3	9.5	15	0.2	0.99	50
	7818V		7.3	9.5	18	0.2	1.18	50
	7820V	*	7.3	9.5	20	0.2	1.31	50
	7825V		7.5	9.5	25	0.2	1.63	50
	7828V	*	7.3	9.5	28	0.2	1.82	50
	7832V		7.3	9.5	32	0.2	2.07	50
35	7912V	*	8.3	11.0	12	0.2	0.90	50
	7915V	*	8.3	11.0	15	0.2	1.12	50
	7918V		8.3	11.0	18	0.2	1.34	50
	7920V	*	8.3	11.0	20	0.2	1.48	50
	7922V	*	8.3	11.0	22	0.2	1.63	50
	7925V		8.5	11.0	25	0.2	1.80	50
	7930V	*	8.3	11.0	30	0.2	2.20	50
50	7932V		8.5	11.0	32	0.2	2.35	50
	8018V		10.3	13.0	18	0.3	1.69	50
	8022V	*	10.3	13.0	22	0.3	2.05	50
	8025V		10.3	13.0	25	0.3	2.32	50
	8030V	*	10.3	13.0	30	0.3	2.77	50
	8032V		10.3	13.0	32	0.3	2.95	50

See next page



Cable end-sleeves to DIN, Cu

Nominal cross section mm ²	Part No.	Hint	Dimension mm				Weight/ 1000 pcs. ~ kg	Packing unit/pcs
			d1	d2	l	s		
70	8122V	*	12.7	15.0	22	0.4	3.31	25
	8125V	*	12.7	15.0	25	0.4	3.75	25
	8130V	*	12.7	15.0	30	0.4	4.48	25
	8132V	*	12.7	15.0	32	0.4	4.78	25
95	8225V	*	14.7	17.0	25	0.4	4.32	25
	8230V	*	14.7	17.0	30	0.4	5.17	25
	8232V	*	14.7	17.0	32	0.4	5.17	25
	8234V	*	14.7	17.0	34	0.4	5.84	25
120	8330V	*	16.7	19.0	30	0.5	7.35	25
	8332V	*	16.7	19.0	32	0.5	7.83	25
	8334V	*	16.7	19.0	34	0.5	8.31	25
	8338V	*	16.7	19.0	38	0.5	9.28	25
	8340V	*	16.7	19.0	40	0.5	9.76	25
150	8432V	*	18.7	21.0	32	0.5	8.75	25
	8434V	*	18.7	21.0	34	0.5	9.28	25
	8438V	*	18.7	21.0	38	0.5	10.36	25
	8440V	*	18.7	21.0	40	0.5	10.89	25
185	8532V	*	20.2	23.5	32	0.6	11.38	25
	8540V	*	20.2	23.5	40	0.6	14.17	25
240	8634V	*	23.0	26.0	34	0.5	11.25	25
	8640V	*	23.0	26.0	40	0.5	13.23	25

Insulated cable end-sleeves to DIN, with Easy-Entry



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Easy-Entry insulation for splice-free cable insertion
- ▶ Halogen-free

Characteristics

- Colour-coding and tube dimension to DIN 46228, part 4
- Heat resistant to 105° C

Material

- Cu-DHP
- Synthetic material: polypropylene

Surface

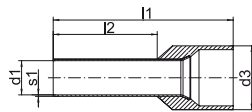
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 148

Additional information

- * = not standardised
- *** = quantities in one bag



Nominal cross section mm ²	Part No.	Colour	Hint	Dimension mm					Weight/ 1000 pcs. ~ kg	Packing unit/ pcs
				d1	d3	l1	l2	s1		
0.5	4696	□		1.0	3.1	12	6	0.15	0.070	1000
	4698	□		1.0	3.1	14	8	0.15	0.070	1000
	GR4698	□	***	1.0	3.1	14	8	0.15	0.070	500
	46910	□		1.0	3.1	16	10	0.15	0.085	1000
0.75	4706	■		1.2	3.3	12	6	0.15	0.080	1000
	4708	■		1.2	3.3	14	8	0.15	0.080	1000
	GR4708	■	***	1.2	3.3	14	8	0.15	0.080	500
	47010	■		1.2	3.3	16	10	0.15	0.100	1000
1	47012	■		1.2	3.3	18	12	0.15	0.105	1000
	4716	■		1.4	3.5	12	6	0.15	0.090	1000
	4718	■		1.4	3.5	14	8	0.15	0.100	1000
	GR4718	■	***	1.4	3.5	14	8	0.15	0.100	500
1.5	47110	■		1.4	3.5	16	10	0.15	0.120	1000
	47112	■		1.4	3.5	18	12	0.15	0.125	1000
	4726	■	*	1.7	4.0	12	6	0.15	0.105	1000
	4728	■		1.7	4.0	14	8	0.15	0.110	1000
	GR4728	■	***	1.7	4.0	14	8	0.15	0.110	500
	47210	■		1.7	4.0	16	10	0.15	0.130	1000
2.5	47212	■		1.7	4.0	18	12	0.15	0.150	1000
	47218	■		1.7	4.0	24	18	0.15	0.190	1000
	4738	■		2.2	4.7	14	8	0.15	0.150	1000
	GR4738	■	***	2.2	4.7	14	8	0.15	0.150	500
4	47312	■		2.2	4.7	18	12	0.15	0.200	1000
	47318	■		2.2	4.7	24	18	0.15	0.250	1000
	47410	■		2.8	5.4	17	10	0.20	0.210	100
	47412	■		2.8	5.4	20	12	0.20	0.250	100
6	47418	■		2.8	5.4	26	18	0.20	0.320	100
	47512	■		3.5	6.9	20	12	0.20	0.350	100
	47518	■		3.5	6.9	26	18	0.20	0.460	100
10	47612	■		4.5	8.4	22	12	0.20	0.450	100
	47618	■		4.5	8.4	28	18	0.20	0.650	100

See next page

Insulated cable end-sleeves to DIN, with Easy-Entry

Nominal cross section mm ²	Part No.	Colour	Hint	Dimension mm					Weight/ 1000 pcs. ~ kg	Packing unit/ pcs
				d1	d3	l1	l2	s1		
16	47712	■		5.8	9.6	24	12	0.20	0.650	100
	47718	■		5.8	9.6	28	18	0.20	0.800	100
25	47816	■		7.3	12.0	30	16	0.20	1.600	50
	47818	■		7.3	12.0	30	18	0.20	1.700	50
	47822	■		7.3	12.0	36	22	0.20	2.000	50
35	47916	■		8.3	13.5	30	16	0.20	1.900	50
	47918	■		8.3	13.5	30	18	0.20	2.100	50
	47925	■		8.3	13.5	39	25	0.20	2.500	50
50	48020	■		10.3	16.0	36	20	0.30	3.300	50
	48025	■		10.3	16.0	40	25	0.30	3.600	50
70	48121	■	*	13.5	17.2	37	21	0.40	4.620	25
95	48225	■	*	14.5	19.2	44	25	0.40	6.000	25
120	48327	■	*	16.7	21.4	48	27	0.45	7.850	25
150	48432	■	*	19.5	25.0	58	32	0.50	12.330	25

Insulated cable end-sleeves to DIN with Easy-Entry, colour code 1



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Easy-Entry insulation for splice-free cable insertion
- ▶ Halogen-free

Characteristics

- To DIN 46228, part 4, (0.5 - 50 mm²)
- Heat resistant to 105° C

Material

- Cu-DHP
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 148


























Additional information

- * = not standardised
- ** = quantities in one bag

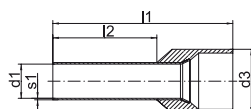
Nominal cross section mm ²	Part No.	Colour	Hint	Dimension mm					Weight/ 1000 pcs. ~ kg	Packing unit/ pcs
				d1	d3	l1	l2	s1		
0.14	166GR	■	*	0.7	2.5	10.0	6	0.15	0.035	1000
	166GRL	■	*	0.7	2.5	12.0	8	0.15	0.040	1000
0.25	167H	■	*	0.8	2.5	10.0	6	0.15	0.045	1000
	167HL	■	*	0.8	2.5	12.0	8	0.15	0.050	1000
0.34	168T	■	*	0.8	2.5	10.0	6	0.15	0.045	1000
	168TL	■	*	0.8	2.5	12.0	8	0.15	0.050	1000
0.5	1690K	■		1.0	3.1	12.0	6	0.15	0.070	1000
	1690	■		1.0	3.1	14.0	8	0.15	0.070	1000
	GR1690	■	**	1.0	3.1	14.0	8	0.15	0.070	500
	1690H	■		1.0	3.1	16.0	10	0.15	0.085	1000

See next page

Insulated cable end-sleeves to DIN with Easy-Entry, colour code 1

Nominal cross section mm ²	Part No.	Colour	Hint	Dimension mm					Weight/ 1000 pcs. ~ kg	Packing unit/ pcs
				d1	d3	l1	l2	s1		
0.75	170WK			1.2	3.3	12.0	6	0.15	0.080	1000
	170W			1.2	3.3	14.0	8	0.15	0.080	1000
	GR170W		**	1.2	3.3	14.0	8	0.15	0.080	500
	170WH			1.2	3.3	16.0	10	0.15	0.100	1000
	170WL			1.2	3.3	18.0	12	0.15	0.105	1000
1	171GK			1.4	3.5	12.0	6	0.15	0.090	1000
	171G			1.4	3.5	14.0	8	0.15	0.100	1000
	GR171G		**	1.4	3.5	14.0	8	0.15	0.100	500
	171GH			1.4	3.5	16.0	10	0.15	0.120	1000
	171GL			1.4	3.5	18.0	12	0.15	0.125	1000
1.5	172RK			1.7	4.0	12.0	6	0.15	0.105	1000
	172RO			1.7	4.0	14.0	8	0.15	0.110	1000
	GR172RO		**	1.7	4.0	14.0	8	0.15	0.110	500
	172RH			1.7	4.0	16.0	10	0.15	0.130	1000
	172RM			1.7	4.0	18.0	12	0.15	0.140	1000
2.5	172RL			1.7	4.0	24.0	18	0.15	0.190	1000
	173B			2.2	4.7	14.0	8	0.15	0.150	1000
	GR173B		**	2.2	4.7	14.0	8	0.15	0.150	500
	173BH			2.2	4.7	18.0	12	0.15	0.200	1000
	173BL			2.2	4.7	24.0	18	0.15	0.250	1000
4	174GR			2.8	5.4	17.0	10	0.20	0.210	100
	174GRH			2.8	5.4	20.0	12	0.20	0.250	100
	174GRL			2.8	5.4	26.0	18	0.20	0.320	100
6	175S			3.5	6.9	20.0	12	0.20	0.350	100
	175SL			3.5	6.9	26.0	18	0.20	0.460	100
10	176E			4.5	8.4	22.0	12	0.20	0.450	100
	176EL			4.5	8.4	28.0	18	0.20	0.650	100
16	177GR			5.8	9.6	24.0	12	0.20	0.650	100
	177GRL			5.8	9.6	28.0	18	0.20	0.800	100
25	178BR			7.3	12.0	30.0	16	0.20	1.600	50
	178BRL			7.3	12.0	36.0	22	0.20	2.000	50
35	179B			8.3	13.5	30.0	16	0.20	1.900	50
	179BL			8.3	13.5	39.0	25	0.20	2.500	50
50	1800			10.3	16.0	36.0	20	0.30	3.300	50
	1800L			10.3	16.0	40.0	25	0.30	4.000	50

Insulated cable end-sleeves to DIN with Easy-Entry, colour code 2



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Easy-Entry insulation for splice-free cable insertion
- ▶ Halogen-free

Characteristics

- To DIN 46228, part 4, (0.5 - 25 mm²)
- Heat resistant to 105° C

Material

- Cu-DHP
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 148








Additional information

- * = not standardised
- ** = quantities in one bag

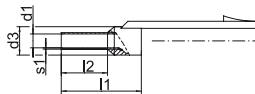
Nominal cross section mm ²	Part No.	Colour	Hint	Dimension mm					Weight/1000 pcs. ~ kg	Packing unit/ pcs
				d1	d3	l1	l2	s1		
0.14	1666	■	*	0.7	2.5	10.0	6	0.15	0.035	1000
	1668	■	*	0.7	2.5	12.0	8	0.15	0.040	1000
0.25	1676	■	*	0.8	2.5	10.0	6	0.15	0.045	1000
	1678	■	*	0.8	2.5	12.0	8	0.15	0.050	1000
0.34	1686	■	*	0.8	2.5	10.0	6	0.15	0.045	1000
	1688	■	*	0.8	2.5	12.0	8	0.15	0.050	1000
0.5	1696	□		1.0	3.1	12.0	6	0.15	0.070	1000
	1698	□		1.0	3.1	14.0	8	0.15	0.080	1000
	GR1698	□	**	1.0	3.1	14.0	8	0.15	0.080	500
0.75	1706	■		1.2	3.3	12.0	6	0.15	0.080	1000
	1708	■		1.2	3.3	14.0	8	0.15	0.095	1000
	GR1708	■	**	1.2	3.3	14.0	8	0.15	0.095	500
1	1716	■		1.4	3.5	12.0	6	0.15	0.085	1000
	1718	■		1.4	3.5	14.0	8	0.15	0.100	1000
	GR1718	■	**	1.4	3.5	14.0	8	0.15	0.100	500
	1726	■		1.7	4.0	12.0	6	0.15	0.100	1000
1.5	1728	■		1.7	4.0	14.0	8	0.15	0.120	1000
	GR1728	■	**	1.7	4.0	14.0	8	0.15	0.120	500
	17210	■		1.7	4.0	16.0	10	0.15	0.130	1000
	17212	■		1.7	4.0	18.0	12	0.15	0.140	1000
	17218	■		1.7	4.0	24.0	18	0.15	0.220	1000
2.5	1738	■		2.2	4.7	14.0	8	0.15	0.140	1000
	GR1738	■	**	2.2	4.7	14.0	8	0.15	0.140	500
	17312	■		2.2	4.7	18.0	12	0.15	0.200	1000
	17318	■		2.2	4.7	24.0	18	0.15	0.280	1000
4	17410	■		2.8	5.4	17.0	10	0.20	0.260	100
	17412	■		2.8	5.4	20.0	12	0.20	0.300	100
	17418	■		2.8	5.4	26.0	18	0.20	0.390	100
6	17512	■		3.5	6.9	20.0	12	0.20	0.410	100
	17518	■		3.5	6.9	26.0	18	0.20	0.530	100

See next page

Insulated cable end-sleeves to DIN with Easy-Entry, colour code 2

Nominal cross section mm ²	Part No.	Colour	Hint	Dimension mm					Weight/1000 pcs. ~ kg	Packing unit/pcs
				d1	d3	l1	l2	s1		
10	17612			4.5	8.4	22.0	12	0.20	0.550	100
	17618			4.5	8.4	28.0	18	0.20	0.710	100
16	17712			5.8	9.6	24.0	12	0.20	0.660	100
	17718			5.8	9.6	28.0	18	0.20	0.850	100
25	17816			7.3	12.0	30.0	16	0.20	1.500	50
	17818			7.3	12.0	30.0	18	0.20	1.550	50
	17822			7.3	12.0	36.0	22	0.20	2.000	50

Insulated cable end-sleeves with lug



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ With identification system for max. 6 identification rings
- ▶ Halogen-free



Characteristics

- Dimensions to DIN 46228, part 4
- Heat resistant to 105° C



Material






- Copper (EN13600)
- Synthetic material: polypropylene

Surface

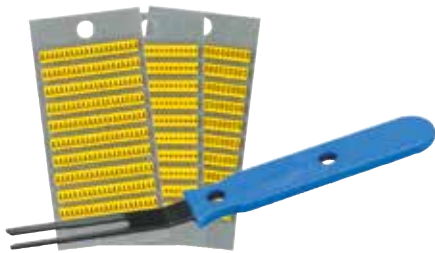
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 148

Nominal cross section mm ²	Part No.	Colour	Dimension mm					Weight/1000 pcs. ~ kg	Packing unit/pcs
			d1	d3	l1	l2	s1		
0.5	3698		1.0	3.1	13.0	8	0.15	0.16	1000
0.75	3708		1.2	3.2	13.5	8	0.15	0.16	1000
1	3718		1.4	3.4	13.5	8	0.15	0.18	1000
1.5	3728		1.7	3.9	13.5	8	0.15	0.20	1000
2.5	3738		2.2	4.7	14.5	8	0.15	0.22	1000

Designation ring and insert fork



► For identifying the insulated cable end-sleeves with lugs

Characteristics

- Differing numbers / letters in the designation rings
- Packaging unit in booklet format, 200 of each symbol
- Insert fork A300 for inserting in the designation ring on the insulated cable end-sleeves with tabs

Additional information

- * = without letters "I", "O" and "Y"

Part No.	Colour	Hint	Packing unit/pcs
Designation rings			
380/-	■		1 booklet
380/+	■		1 booklet
380/0 to 9	■		1 booklet
380/A to Z	■	*	1 booklet
Insert fork			
A300			1

Insulated cable end-sleeves for short circuit resistant conductors



► For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
► For short circuit resistant conductors (e.g. NSGAFÖU)
► Halogen-free



Characteristics

- Heat resistant to 105° C
- Easy-Entry insulation for simple cable insertion
- Colour-coded cross-section assignment



Material

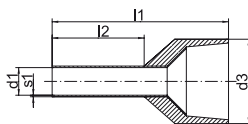
- Copper (EN13600)
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

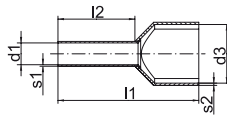
Technical instructions

- Tool: see page 148



Nominal cross section mm ²	Part No.	Colour	Dimension mm					Weight/ 1000 pcs. ~ kg	Packing unit/pcs
			d1	d3	l1	l2	s1		
1.5	4328	■	1.7	8.1	17.5	8	0.15	0.22	100
	43210	■	1.7	8.1	19.5	10	0.15	0.27	100
2.5	4338	■	2.2	8.6	17.5	8	0.15	0.24	100
	43312	■	2.2	8.6	21.5	12	0.15	0.36	100
4	43410	■	2.9	10.5	19.5	10	0.20	0.36	100
6	43512	■	3.5	11.0	23.0	12	0.20	0.49	100
10	43612	■	4.5	12.5	24.0	12	0.20	0.65	100
16	43712	■	5.8	14.5	25.5	12	0.20	0.93	100

Insulated twin cable end-sleeves



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ For looping of clamps
- ▶ Colour-coding following DIN 46228 part 4 (0.5 - 16 mm²)
- ▶ Halogen-free

Characteristics

- Heat resistant to 105° C

Material

- Copper (EN13600)
- Synthetic material: polypropylene

Surface

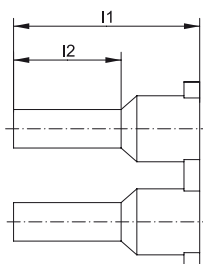
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 150

Nominal cross section mm ²	Part No.	Colour	Dimension mm						Weight/ 1000 pcs. ~ kg	Packing unit/ pcs
			d1	d3	l1	l2	s1	s2		
2 x 0.25	8678		1.20	2.3/3.9	15.0	8	0.15	0.25	0.110	1000
2 x 0.34	8688		1.20	2.3/3.9	15.0	8	0.15	0.25	0.110	1000
2 x 0.5	8698		1.40	3.0/5.2	15.0	8	0.15	0.25	0.110	1000
2 x 0.75	8708		1.70	3.3/5.5	15.0	8	0.15	0.25	0.130	1000
	87010		1.70	3.3/5.5	17.0	10	0.15	0.25	0.150	1000
2 x 1	8718		2.00	4.0/6.0	15.0	8	0.15	0.30	0.170	1000
	87110		2.00	4.0/6.0	17.0	10	0.15	0.30	0.170	1000
2 x 1.5	8728		2.20	4.2/7.2	16.0	8	0.15	0.30	0.183	1000
	87212		2.20	4.2/7.2	20.0	12	0.15	0.30	0.237	1000
2 x 2.5	87310		2.80	4.8/8.4	18.5	10	0.20	0.30	0.312	100
	87313		2.80	4.8/8.4	21.5	13	0.20	0.30	0.340	100
2 x 4	87412		3.70	5.7/9.6	23.0	12	0.20	0.40	0.467	100
2 x 6	87514		4.80	7.7/10.8	26.0	14	0.20	0.40	0.730	100
2 x 10	87614		6.40	8.0/13.8	26.0	14	0.20	0.40	0.884	100
2 x 16	87714		8.20	10.4/19.2	30.0	14	0.20	0.40	1.273	100

Insulated cable end-sleeves, strip form



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Crimped cable end-sleeves for simple mounting to cable clamps
- ▶ Halogen-free

Characteristics

- Colour-coding and tube dimension to DIN 46228, part 4
- Heat resistant to 105° C
- 50 pcs. cable end-sleeves per strip

Material

- Copper (EN13600)
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm ²	Part No.	Colour	Dimension mm		Weight/ 1000 pcs. ~ kg	Packing unit/pcs
			l1	l2		
0.5	ST9698		14	8	0.100	500
0.75	ST9708		14	8	0.100	500
1	ST9718		14	8	0.100	500
1.5	ST9728		14	8	0.100	500
2.5	ST9738		14	8	0.100	500

Insulated cable end-sleeves, small coil



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Easy-Entry insulation for optimal cable insertion
- ▶ Automatic processing due to coil shape
- ▶ Halogen-free

Characteristics

- Colour-coding and tube dimension to DIN 46228, part 4
- Heat resistant to 105° C

Material

- Copper (EN13600)
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm ²	Part No.	Colour	Dimension mm		Weight/ 1000 pcs. ~ kg	Packing unit/pcs
			l1	l2		
0.5	BAK9698		14	8	0.136	1100
0.75	BAK9708		14	8	0.154	1100
1	BAK9718		14	8	0.187	800
1.5	BAK9728		14	8	0.200	800
2.5	BAK9738		14	8	0.300	500

Insulated cable end-sleeves, large coil



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Easy-Entry insulation for splice-free cable insertion
- ▶ Automatic processing due to coil shape
- ▶ Halogen-free

Characteristics

- Colour-coding and tube dimension to DIN 46228, part 4
- Heat resistant to 105° C

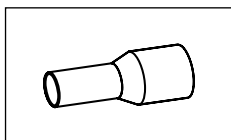
Material

- Copper (EN13600)
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm ²	Part No.	Colour	Dimension mm		Weight/ 1000 pcs. ~ kg	Packing unit/pcs
			l1	l2		
0.5	BAG9698	□	14	8	0.120	10000
0.75	BAG9708	■	14	8	0.130	10000
1	BAG9718	■	14	8	0.160	7500
1.5	BAG9728	■	14	8	0.173	7500
2.5	BAG9738	■	14	8	0.230	5000

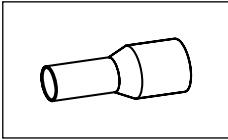


Tool application chart

Cable end-sleeves to DIN 46228, part 1 and DIN 46228, part 4 Insulated cable end-sleeves for short circuit resistant conductors

Part 1 of 2



































Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0.08 - 10	K303		214		◇
		K304K		214		◇
	0.08 - 16	K306K		215		◇
		K1		210		□
	0.14 - 2.5	K48		210		□
		K32		211		□
	0.14 - 6	K37		212		□
	0.14 - 10	K3014K		215		◇
	0.5 - 2.5	K4		208		∩
	0.5 - 6	K36		211		□
		K382		213		◇
	0.5 - 16	K3		209		∩
	1.5 - 6	K46		208		∩
	6 - 16	K34		212		□
	10 - 25	K39		213		□
	10 - 35	K35		209		∩
	10 - 50	K271		216		∩
		K28		217		□
	50 - 95	K272		217		∩
		K29		218		□
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	0.14 - 10	K507		234		□
	0.14 - 50	K50		235	312	□
		EK50ML		244	312	□
	10 - 50	K354		236	317	∩
	10 - 120	K18		238	326	∩
10 - 240	K22		240	332	∩	

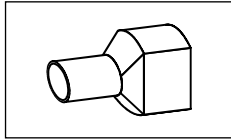


Tool application chart

Cable end-sleeves to DIN 46228, part 1 and DIN 46228, part 4
Insulated cable end-sleeves for short circuit resistant conductors

Part 2 of 2

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile	
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die		
Hand hydraulic crimping tools	10 - 95	HK6018		280	326		
		HK60UNV	+UA18	465	326		
	10 - 240	HK6022		282	332		
		HK60UNV	+UA22	465	332		
	25 - 240	HK12030		286	337		
		HK12042		288	337		
		HK120U		290	337		
	Battery powered crimping tools	0,14 - 50	EK1550ML		248	312	
		10 - 50	EK354ML		250	317	
EK354				256	317		
0,14 - 50		EK505		258	322		
10 - 95		EK5018		260	326		
		EK60UNV	+UA18	468	326		
		EKM60UNV	+UA18	467	326		
10 - 240		EK6022		264	332		
		EKM6022		262	332		
		EK60UNV	+UA22	468	332		
		EKM60UNV	+UA22	467	332		
25 - 240		EK12032		270	337		
		EK12042		272	337		
		EK120U		274	337		
		EK135FT	+UA15T	276	337		
		EK120UNV	+UA12T	469	337		
Hydraulic crimping systems	10 - 120	THK18		294	326		
	10 - 240	THK22		296	332		
	25 - 240	HK252	+25A13	308	337	 	
Hydraulic crimping heads	10 - 120	PK18		294	326		
		PK60UNV	+UA18	466	326		
	10 - 240	PK22		296	332		
		PK60UNV	+UA22	466	332		
	25 - 240	PK12042		300	337		
		PK120U		302	337		
	PK252	+25A13	304	337			



Tool application chart

Insulated twin cable end-sleeves

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	2 x 0,25 - 2 x 4	K3016K		216		
	2 x 0,5 - 2 x 2,5	K32		211		
	2 x 0,25 - 2 x 2,5	K382		213		
	2 x 0,25 - 2 x 4	K303		214		
		K36		211		
	2 x 0,5 - 2 x 10	K306K		215		
	2 x 0,5 - 2 x 6	K304K		214		
	2 x 0,25 - 2 x 4	K3014K		215		
	2 x 4 - 2 x 6	K34		212		
	2 x 4 - 2 x 16	K271		216		
K28			217			
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	2 x 4 - 2 x 16	K354		236	318	
		K18		238	326	
		K22		240	332	
Hand hydraulic crimping tools	2 x 4 - 2 x 16	HK6018		280	326	
		HK60UNV	+UA18	465	326	
		HK6022		282	332	
		HK60UNV	+UA22	465	332	
Battery powered crimping tools	2 x 4 - 2 x 16	EK354ML		250	318	
		EK354		256	318	
		EK505		258	322	
		EK5018		260	326	
		EK60UNV	+UA18	468	326	
		EKM60UNV	+UA18	467	326	
		EK6022		264	332	
		EKM6022		262	332	
		EK60UNV	+UA22	468	332	
		EKM60UNV	+UA22	467	332	
Hydraulic crimping systems	2 x 4 - 2 x 16	THK18		294	326	
		THK22		296	332	
Hydraulic crimping heads	2 x 4 - 2 x 16	PK18		294	326	
		PK60UNV	+UA18	466	326	
		PK22		296	332	
		PK60UNV	+UA22	466	332	

PRECISION - CABLE CONNECTIONS, INSULATED AND NON-INSULATED

Electrical power is the product of voltage and current strength. An optimum connection guarantees to transfer this power without thermal losses. This requires materials, design and tool to be correctly processed and matched to one another. If you want optimum power at all times, you can rely on Klauke's best work.



In brief

- ▶ High requirements in detail
- ▶ Solutions available for small cross-sections
- ▶ Broad range of versions
- ▶ Optimum connection without thermal loss
- ▶ Grooved profile for improved conductor hold

► Easy insulation

All insulation is produced in the Easy-Entry version, for simple cable insertion without splicing. For small ranges with big effect.

- Cable connections with nominal cross-sections from 0.1 mm² to 6 mm²
- Resistant to temperatures of up to 105 °C

- Flame retardant polyamide insulation: No toxic vapours in case of fire
- Halogen-free
- Insensitive to corrosion due to tinning under the insulation
- Simple processing thanks to Easy-Entry
- Grooved profile on the inside for improved contacting

► More hold with grooved profile

The detail is key. Not only are there numerous models of Klauke tabs and receptacles, they are also equipped with special features. No matter whether as a standardised connector or with grooved profile for improved contacting - Klauke will always provide the right feature for your requirements.

- Broad range of models
- All-purpose
- Also as standardised connectors with various tab widths
- Available with strain relief
- Fully-insulated receptacles
- Grooved profile and additional copper ring in the insulation area for higher stresses



► Quality in detail

In a machine, everything has to pull together. For the machine to run, every component has to function. Even when it comes to small parts, better to go for high quality products with a high capacity, for our receptacles with snap-in point for example. The snap-in point guarantees a reliable connection even after repeated insertions.

- High conductivity and reliable insulation thanks to high-quality materials
- Improved spring properties by the use of bronze



Insulated solderless terminals



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ To DIN 46237
- ▶ High-quality brazing process in the crimp area
- ▶ Insulation sleeve halogen-free

Characteristics

- Heat resistant to 105° C
- Easy-Entry insulation for simple cable insertion
- Cross-section-dependent colour-coding

Material

- Copper (ETP)
- Insulation sleeve: PA

Surface

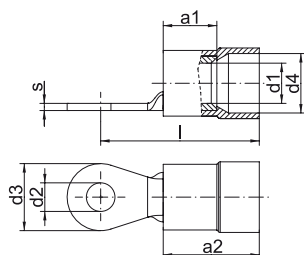
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 173

Additional information

- * = not standardised
- 0.1 - 0.4 mm² not CSA-tested



Nominal cross section mm ²	Nominal size to DIN	Part No.	Colour	Hint	Dimension mm								Weight/ pcs. ~kg	Packing unit/pcs
					a1	a2	d1	d2	d3	d4	l	s		
0.1 - 0.4	--	6192	□	*	--	--	1.0	2.3	5.0	2.2	14.0	0.5	0.020	100
	--	61925	□	*	--	--	1.0	2.6	5.0	2.2	14.0	0.5	0.020	100
	--	6193	□	*	--	--	1.0	3.3	5.0	2.2	14.0	0.5	0.020	100
	--	61935	□	*	--	--	1.0	3.8	6.5	2.2	16.0	0.5	0.025	100
	--	6194	□	*	--	--	1.0	4.4	7.0	2.2	16.0	0.5	0.025	100
	--	6195	□	*	--	--	1.0	5.4	8.0	2.2	15.0	0.5	0.025	100
0.5 - 1	2.5 - 1	62025	■		5	10.5	1.6	2.8	6.0	4.5	16.5	0.8	0.060	100
	3.0 - 1	6203	■		5	10.5	1.6	3.2	6.0	4.5	16.5	0.8	0.060	100
	3.5 - 1	62035	■		5	10.5	1.6	3.7	6.0	4.5	16.5	0.8	0.550	100
	4.0 - 1	6204	■		5	10.5	1.6	4.3	8.0	4.5	17.5	0.8	0.070	100
	5.0 - 1	6205	■		5	10.5	1.6	5.3	10.0	4.5	18.5	0.8	0.090	100
	--	6206	■	*	5	10.5	1.6	6.5	11.0	4.5	20.5	0.8	0.080	100
	--	6208	■	*	5	10.5	1.6	8.4	14.0	4.5	22.5	0.8	0.130	100
	--	62010	■	*	5	10.5	1.6	10.5	18.0	4.5	24.5	0.8	0.130	100
1.5 - 2.5	3.0 - 2.5	6303	■		5	11.5	2.3	3.2	6.0	5.0	17.5	0.8	0.065	100
	3.5 - 2.5	63035	■		5	11.0	2.3	3.7	6.0	5.1	17.5	0.8	0.065	100
	4.0 - 2.5	6304	■		5	11.5	2.3	4.3	8.0	5.1	18.5	0.8	0.080	100
	5.0 - 2.5	6305	■		5	11.5	2.3	5.3	10.0	5.1	20.5	0.8	0.090	100
	6.0 - 2.5	6306	■		5	11.5	2.3	6.5	11.0	5.1	22.5	0.8	0.110	100
	8.0 - 2.5	6308	■		5	11.5	2.3	8.4	14.0	5.1	23.5	0.8	0.130	100
	--	63010	■	*	5	11.5	2.3	10.5	18.0	5.1	25.5	0.8	0.160	100
4 - 6	4.0 - 6	6504	□		6	12.5	3.6	4.3	8.0	6.5	20.5	1.0	0.140	100
	5.0 - 6	6505	□		6	12.5	3.6	5.3	10.0	6.5	21.5	1.0	0.160	100
	6.0 - 6	6506	□		6	12.5	3.6	6.5	11.0	6.5	22.5	1.0	0.170	100
	8.0 - 6	6508	□		6	12.5	3.6	8.4	14.0	6.5	25.5	1.0	0.220	100
	10.0 - 6	65010	□		6	12.5	3.6	10.5	18.0	6.5	27.5	1.0	0.290	100

Insulated solderless terminals, fork type



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Dimensions in the crimp area to DIN 46237
- ▶ High-quality brazing process in the crimp area
- ▶ Simple fork-type mounting
- ▶ Insulation sleeve halogen-free

Characteristics

- Heat resistant to 105° C
- Easy-Entry insulation for simple cable insertion
- Cross-section-dependent colour-coding

Material

- Copper (ETP)
- Insulation sleeve: PA

Surface

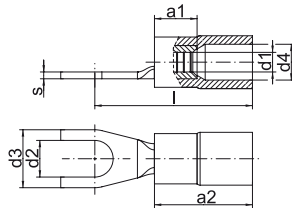
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 173

Additional information

- 0.1 - 0.4 mm² not CSA-tested
- * = not standardised



Nominal cross section mm ²	Nominal size to DIN	Part No.	Colour	Hint	Dimension mm								Weight/ pcs. ~kg	Packing unit/pcs
					a1	a2	d1	d2	d3	d4	l	s		
0.1 - 0.4	--	619C3	□	*	--	--	--	3.2	5.0	--	14.0	0.5	0.020	100
	3.0 - 1	620C3	■		5	10.5	1.6	3.2	6.0	4.5	16.5	0.8	0.060	100
	3.5 - 1	620C35	■		5	10.5	1.6	3.7	6.8	4.5	17.5	0.8	0.060	100
0.5 - 1	4.0 - 1	620C4	■		5	10.5	1.6	4.3	6.8	4.5	17.5	0.8	0.070	100
	5.0 - 1	620C5	■		5	10.5	1.6	5.3	10.0	4.5	18.5	0.8	0.090	100
	--	620C6	■	*	5	10.5	1.6	6.5	11.0	4.5	20.5	0.8	0.080	100
1.5 - 2.5	3.0 - 2.5	630C3	■		5	11.5	2.3	3.2	6.0	5.1	17.5	0.8	0.060	100
	3.5 - 2.5	630C35	■		5	11.5	2.3	3.7	6.8	5.1	18.5	0.8	0.065	100
	4.0 - 2.5	630C4	■		5	11.5	2.3	4.3	6.8	5.1	18.5	0.8	0.080	100
1.5 - 2.5	5.0 - 2.5	630C5	■		5	11.5	2.3	5.3	10.0	5.1	20.5	0.8	0.090	100
	6.0 - 2.5	630C6	■		5	11.5	2.3	6.5	11.0	5.1	22.5	0.8	0.110	100
	4.0 - 6	650C4	□		6	12.5	3.6	4.3	8.0	6.5	20.5	1.0	0.140	100
4 - 6	5.0 - 6	650C5	□		6	12.5	3.6	5.3	10.0	6.5	21.5	1.0	0.160	100
	6.0 - 6	650C6	□		6	12.5	3.6	6.5	11.0	6.5	22.5	1.0	0.170	100
	8.0 - 6	650C8	□		6	12.5	3.6	8.4	14.0	6.5	25.5	1.0	0.220	100
	10.0 - 6	650C10	□		6	12.5	3.6	10.5	18.0	6.5	27.5	1.0	0.280	100



Insulated pin terminals



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ To DIN 46231
- ▶ High-quality brazing process in the crimp area
- ▶ Insulation sleeve halogen-free

Characteristics

- Cross-section-dependent colour-coding
- Heat resistant to 105° C
- Easy-Entry insulation for simple cable insertion

Material

- Copper (ETP)
- Insulation sleeve: PA

Surface

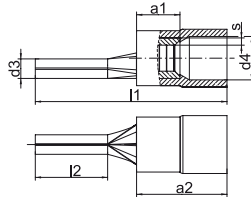
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 173

Additional information

- 0.1 - 0.4 mm² not CSA-tested
- * = not standardised



Nominal cross section mm ²	Nominal size to DIN	Part No.	Colour	Hint	Dimension mm						Weight/ pcs. ~kg	Packing unit/pcs
					a1	a2	d3	d4	l1	l2		
0.1 - 0.4	--	704	□	*	--	--	1.4	--	18.0	9.0	0.020	100
0.5 - 1	1	705	■		5	10.5	1.9	4.5	22.0	10.0	0.065	100
		705K	■	*	5	10.5	1.9	4.5	18.0	6.0	0.060	100
		710	■		5	11.5	1.9	5.1	23.0	10.0	0.065	100
1.5 - 2.5	2.5	710K	■	*	5	11.5	1.9	5.1	19.5	6.5	0.060	100
		710L	■	*	5	11.5	1.9	5.1	27.5	16.0	0.100	100
		715	□		6	12.5	2.7	6.5	26.0	11.0	0.160	100

Insulated pin receptacles



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ High quality bronze material provides optimum spring characteristic and improved contact strength



Characteristics

- Cross-section-dependent colour-coding
- Heat resistant to 70° C



Material

- Bronze (CuSnZn)
- Insulation sleeve: PVC



Surface

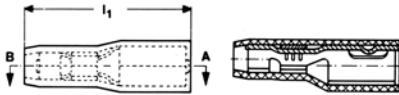
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 173

Additional information

- 1.5 - 2.5 mm² and 4 - 6 mm² not CSA-tested



Nominal cross section mm ²	Part No.	Colour	Dimension mm		Weight/pcs. ~kg	Packing unit/pcs
			Pin dia.	l1		
0.5 - 1	920	Red	4	22	0.060	100
1.5 - 2.5	930	Blue	5	22	0.120	100
4 - 6	950	Yellow	5	22	0.125	100

Insulated pin receptacles



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6



Characteristics

- Cross-section-dependent colour-coding
- Heat resistant to 70° C



Material

- Brass (CuZn)
- Insulation sleeve: PVC



Surface

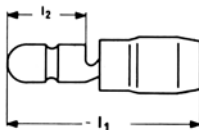
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 173

Additional information

- 1.5 - 2.5 mm² and 4 - 6 mm² not CSA-tested



Nominal cross section mm ²	Part No.	Colour	Dimension mm			Weight/pcs. ~kg	Packing unit/pcs
			Pin dia.	l1	l2		
0.5 - 1	1020	Red	4	22	9	0.060	100
1.5 - 2.5	1030	Blue	5	22	9	0.075	100
4 - 6	1050	Yellow	5	22	9	0.110	100



Insulated pin receptacles, fully insulated



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ High quality bronze material provides optimum spring characteristic and improved contact strength
- ▶ Fast processing as no additional insulation of the crimped connection is required
- ▶ Insulation sleeve halogen-free

Characteristics

- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material

- Bronze (CuSnZn)
- Insulation sleeve: PA

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 173

Additional information

- 4 - 6 mm² not CSA-tested

Nominal cross section mm ²	Part No.	Colour	Dimension mm			Weight/pcs. ~kg	Packing unit/pcs
			Pin dia.	l1	s		
0.5 - 1	920V	■	4	24	0.38	0.065	100
4 - 6	950V	■	5	27	0.40	0.150	100

Insulated pin receptacles, fully insulated



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ High quality bronze material provides optimum spring characteristic and improved contact strength
- ▶ Fast processing as no additional insulation of the crimped connection is required
- ▶ Insulation sleeve halogen-free

Characteristics

- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material

- Bronze (CuSnZn)
- Insulation sleeve: PA

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 173

Additional information

- 1.5 - 2.5 mm² and 4 - 6 mm² not CSA-tested

Nominal cross section mm ²	Part No.	Colour	Dimension mm			Weight/pcs. ~kg	Packing unit/pcs
			Pin dia.	l1	l2		
0.5 - 1	1020V	■	4	25	11	0.065	100
1.5 - 2.5	1030V	■	5	25	11	0.080	100
4 - 6	1050V	■	5	27	13	0.120	100

Insulated receptacles, tinned brass



► For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6



Characteristics

- To DIN 46245, part 1 – 3 and similar versions
- Cross-section-dependent colour-coding
- Temperature resistance: PVC to 70° C, PA to 105° C



Material

- Brass (CuZn)
- Insulation sleeve: PVC/PA

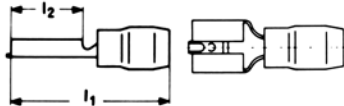


Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 173



Nominal cross section mm ²	Nominal size to DIN	Part No.	Colour	Tab Thickn.	Tab Width	Dimension mm		Insulation material	Weight/pcs. ~kg	Packing unit/pcs	
						l1	l2				
0.5 - 1		8201	■	0.5	2.8	17.5	8.0	PVC	0.035	100	
		8201A	■	0.8	2.8	17.5	8.0	PVC	0.045	100	
	4.8 - 1	8202	■	0.5	4.8	18.0	6.0	PVC	0.065	100	
		8203	■	0.8	4.8	18.0	6.0	PVC	0.065	100	
	1.5 - 2.5	6.3 - 1	720	■	0.8	6.3	22.0	7.5	PVC	0.090	100
			7208	■	0.8	7.7	25.0	9.5	PVC	0.110	100
		8301	■	0.5	2.8	18.0	8.0	PA	0.050	100	
		8301A	■	0.8	2.8	18.0	8.0	PA	0.060	100	
4.8 - 2.5		8302	■	0.5	4.8	18.0	6.0	PVC	0.070	100	
		8303	■	0.8	4.8	18.0	6.0	PVC	0.070	100	
4 - 6	6.3 - 2.5	730	■	0.8	6.3	21.0	7.4	PVC	0.090	100	
		7308	■	0.8	7.7	25.0	9.5	PVC	0.115	100	
	6.3 - 6	8503	■	0.8	4.8	23.0	7.5	PA	0.138	100	
		750	■	0.8	6.3	21.0	7.5	PVC	0.100	100	
		7509	■	1.2	9.5	26.5	12.0	PVC	0.150	100	

Insulated receptacles, tinned bronze



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ High quality bronze material provides optimum spring characteristic and improved contact strength

Characteristics

- To DIN 46245, part 3
- Cross-section-dependent colour-coding
- Heat resistant to 70° C

Material

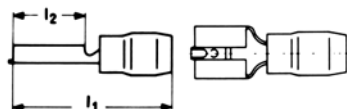
- Bronze (CuSnZn)
- Insulation sleeve: PVC

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 173



Nominal cross section mm ²	Nominal size to DIN	Part No.	Colour	Tab Thickn.	Tab Width	Dimension mm		Insulation material	Weight/pcs. ~kg	Packing unit/ pcs
						l1	l2			
0.5 - 1	6.3 - 1	720BZ	■	0.8	6.3	22	7.5	PVC	0.09	100
1.5 - 2.5	6.3 - 2.5	730BZ	■	0.8	6.3	21	7.4	PVC	0.09	100
4 - 6	6.3 - 6	750BZ	■	0.8	6.3	21	7.5	PVC	0.10	100

Insulated receptacles, multiple type



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6

Characteristics

- Cross-section-dependent colour-coding
- Heat resistant to 70° C

Material

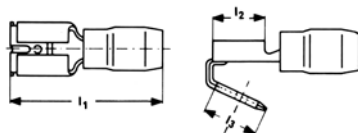
- Brass (CuZn)
- Insulation sleeve: PVC

Surface

- Tin-plated to protect against corrosion

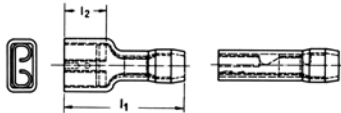
Technical instructions

- Tool: see page 173



Nominal cross section mm ²	Part No.	Colour	Tab Thickn.	Tab Width	Dimension mm			Insulation material	Weight/pcs. ~kg	Packing unit/ pcs
					l1	l2	l3			
0.5 - 1	720AZ	■	0.8	6.3	22	7.5	8	PVC	0.11	100
1.5 - 2.5	730AZ	■	0.8	6.3	22	7.5	8	PVC	0.11	100
4 - 6	750AZ	■	0.8	6.3	25	8.0	8	PVC	0.18	100

Insulated receptacles, fully insulated



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Fast processing as no additional insulation of the crimped connection is required



Characteristics

- Cross-section-dependent colour-coding
- Temperature resistance: PVC to 70° C, PA to 105° C



Material

- Brass (CuZn)
- Insulation sleeve: PVC/PA



Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 173

Nominal cross section mm ²	Part No.	Colour	Tab Thickn.	Tab Width	Dimension mm		Insulation material	Weight/pcs. ~kg	Packing unit/pcs
					l1	l2			
0.5 - 1	8201V	■	0.5	2.8	19.0	5.5	PA	0.07	100
	8201AV	■	0.8	2.8	19.0	5.5	PA	0.07	100
	8202V	■	0.5	4.8	20.0	7.0	PVC	0.10	100
	8203V	■	0.8	4.8	20.0	7.0	PVC	0.10	100
	720V	■	0.8	6.3	21.0	7.5	PVC	0.08	100
1.5 - 2.5	8301V	■	0.5	2.8	20.0	8.0	PVC	0.14	100
	8301AV	■	0.8	2.8	20.0	8.0	PVC	0.14	100
	8302V	■	0.5	4.8	20.5	7.0	PVC	0.11	100
	8303V	■	0.8	4.8	20.5	7.0	PVC	0.11	100
	730V	■	0.8	6.3	21.0	7.5	PVC	0.15	100
4 - 6	8502V	■	0.5	4.8	20.5	9.5	PVC	0.15	100
	8503V	■	0.8	4.8	20.5	9.5	PVC	0.15	100
	750V	■	0.8	6.3	25.5	11.5	PVC	0.16	100

Insulated tabs



► For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6

Characteristics

- Cross-section-dependent colour-coding
- Temperature resistance: PVC to 70° C, PA to 105° C

Material

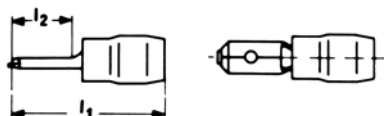
- Brass (CuZn)
- Insulation sleeve: PVC/PA

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 173



Nominal cross section mm ²	Part No.	Colour	Tab Thickn.	Tab Width	Dimension mm		Insulation material	Weight/pcs. ~kg	Packing unit/pcs
					l1	l2			
0.5 - 1	8201C	■	0.5	2.8	22.0	11.5	PA	0.040	100
	8201B	■	0.8	2.8	14.6	5.5	PVC	0.060	100
	8202B	■	0.5	4.8	22.0	11.5	PA	0.070	100
	8203B	■	0.8	4.8	22.0	11.5	PA	0.070	100
	820	■	0.8	6.3	22.0	8.0	PVC	0.060	100
1.5 - 2.5	8302B	■	0.5	4.8	22.0	11.5	PA	0.070	100
	8303B	■	0.8	4.8	22.0	11.5	PA	0.070	100
	830	■	0.8	6.3	22.0	8.0	PVC	0.065	100
4 - 6	8502B	■	0.5	4.8	24.5	10.5	PA	0.120	100
	8503B	■	0.8	4.8	24.5	10.5	PA	0.120	100
	850	■	0.8	6.3	22.0	8.0	PVC	0.110	100

Insulated end-splices



► For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
 ► Safe sealing of open conductors
 ► Insulation sleeve halogen-free

Characteristics

- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material

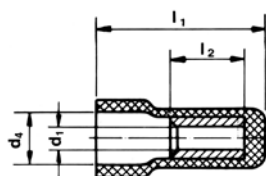
- Copper (ETP)
- Insulation sleeve: PA

Surface

- Tin-plated to protect against corrosion

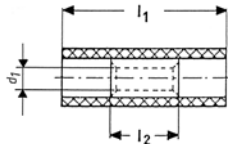
Technical instructions

- Tool: see page 173



Nominal cross section mm ²	Part No.	Colour	Dimension mm				Weight/pcs. ~kg	Packing unit/pcs
			d1	d2	l1	l2		
1.5 - 2.5	1130	■	2.3	5.2	16	7	0.05	100
4 - 6	1150	■	3.6	7.0	18	7	0.14	100

Insulated butt connectors



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Simple and safe connecting owed to butt mark
- ▶ Fast processing as no additional insulation of the crimped connection is required
- ▶ Insulation sleeve halogen-free

Characteristics

- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material

- Copper (ETP)
- Insulation sleeve: PA

Surface

- Tin-plated to protect against corrosion

Technical instructions

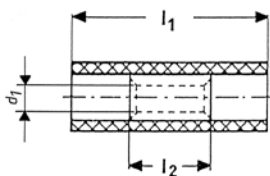
- Tool: see page 173

Additional information

- 0.1 - 0.4 mm² not CSA-tested

Nominal cross section mm ²	Part No.	Colour	Dimension mm			Weight/pcs. ~kg	Packing unit/pcs
			d1	l1	l2		
0.1 - 0.4	669	Yellow	1.2	20	12	0.030	100
0.5 - 1	670	Red	1.6	25	15	0.090	100
1.5 - 2.5	680	Blue	2.3	25	15	0.115	100
4 - 6	700	Yellow	3.6	27	15	0.250	100

Insulated butt connectors with heat shrink insulation



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Simple and safe processing due to butt mark
- ▶ Fast processing as no additional insulation of the crimped connection is required
- ▶ Insulation sleeve halogen-free

Characteristics

- Cross-section-dependent colour-coding
- Special crimping tool required
- Heat resistant to 105° C

Material

- Copper (ETP)
- Insulation sleeve: PE

Surface

- Tin-plated to protect against corrosion

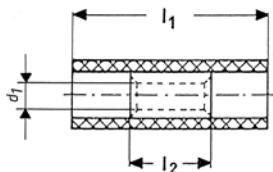
Technical instructions

- Tool: see page 173

Nominal cross section mm ²	Part No.	Colour	Dimension mm			Weight/pcs. ~kg	Packing unit/pcs
			d1	l1	l2		
0.5 - 1	670WS	Red	1.6	36	15	0.12	100
1.5 - 2.5	680WS	Blue	2.3	36	15	0.15	100
4 - 6	700WS	Yellow	3.4	41	15	0.25	100



Insulated parallel connectors



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Fast processing as no additional insulation of the crimped connection is required
- ▶ Insulation sleeve halogen-free

Characteristics

- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material

- Copper (ETP)
- Insulation sleeve: PA

Surface

- Tin-plated to protect against corrosion

Technical instructions

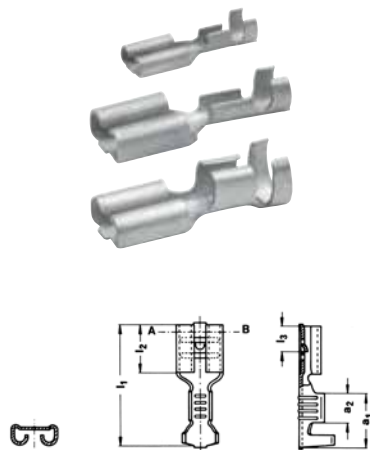
- Tool: see page 173

Additional information

- 0.1 - 0.4 mm² not CSA-tested

Nominal cross section mm ²	Part No.	Colour	Dimension mm			Weight/pcs. ~kg	Packing unit/pcs
			d1	l1	l2		
0.1 - 0.4	769		1.2	13	5	0.020	100
0.5 - 1	770		1.6	17	7	0.030	100
1.5 - 2.5	780		2.3	17	7	0.035	100
4 - 6	790		3.6	21	7	0.105	100

Non-insulated receptacles



► For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6



Characteristics

- To DIN 46247, part 1 – 3 and similar versions
- Improved contact properties due to grooved profile



Material

- Brass (CuZn)



Surface

- Tin-plated to protect against corrosion

Technical instructions

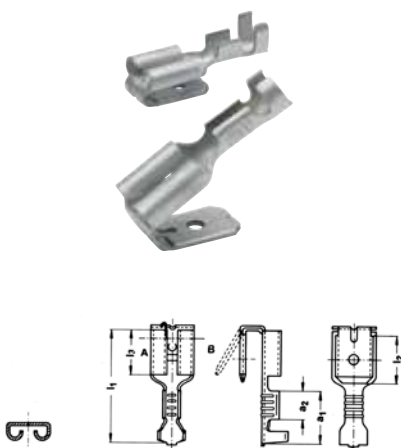
- Tool: see page 174

Additional information

- * = nickel-plated steel version also available, Part Number appendix "ST"

Nominal cross section mm ²	Nominal size to DIN	Part No.	Tab Thickn.	Tab Width	Dimension mm						Weight/ pcs. ~kg	Packing unit/pcs
					a1	a2	l1	l2	l3	s		
0.5 - 1	--	18251	0.5	2.8	5.0	2.8	12.5	5.0	3.3	0.30	0.025	100
	--	18251A	0.8	2.8	5.5	2.5	12.5	5.0	3.3	0.30	0.025	100
	B 2.8 - 1	18201A	0.8	2.8	5.5	2.5	14.0	6.3	3.3	0,35	0.025	100
	--	18202	0.5	4.8	6.0	3.4	15.6	6.0	3.8	0.35	0.050	100
	4.8 - 1	18203	0.8	4.8	6.0	3.4	15.6	6.0	3.8	0.35	0.050	100
1.5 - 2.5	6.3 - 1	1720	0.8	6.3	8.5	4.5	19.0	7.4	4.0	0.45	0.085	100
	4.8 - 2.5	18303	0.8	4.8	6.0	3.4	15.6	6.0	3.8	0.35	0.055	100
	6.3 - 2.5	*1730	0.8	6.3	8.5	4.5	19.0	7.4	4.0	0.45	0.082	100
4 - 6	6.3 - 6	*1750	0.8	6.3	8.5	4.5	19.0	7.4	4.0	0.45	0.100	100

Non-insulated receptacles, multiple type



► For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6



Characteristics

- To DIN 46247, part 1 – 3 and similar versions
- Improved contact properties due to grooved profile



Material

- Brass (CuZn)



Surface

- Tin-plated to protect against corrosion

Technical instructions

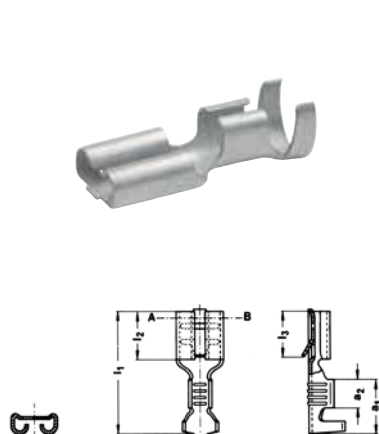
- Tool: see page 174

Additional information

- * = corresponds to DIN 46345

Nominal cross section mm ²	Part No.	Tab Thickn.	Tab Width	Hint	Dimension mm						Weight/ pcs. ~kg	Packing unit/pcs
					a1	a2	l1	l2	l3	s		
0.5 - 1	18203AZ	0.8	4.8		6.0	3.4	15.6	7	6.0	0.38	0.09	100
1.5 - 2.5	18303AZ	0.8	4.8		6.0	3.4	15.6	7	6.0	0.38	0.09	100
	1730AZ	0.8	6.3	*	8.5	4.5	19.2	8	7.5	0.38	0.13	100

Non-insulated receptacles with locking latch



► For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6

Characteristics

- To DIN 46340, sheet 3
- With latch to engage in housing
- Improved contact properties due to grooved profile

Material

- Brass (CuZn)

Surface

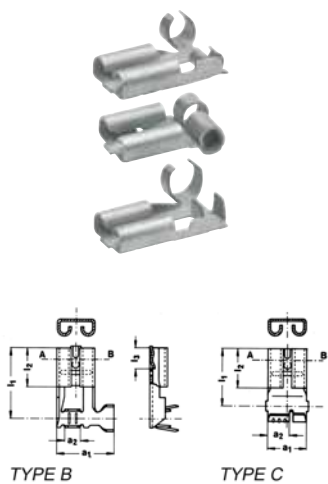
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 174

Nominal cross section mm ²	Part No.	Tab Thickn.	Tab Width	Dimension mm						Weight/pcs. ~kg	Packing unit/pcs
				a1	a2	l1	l2	l3	s		
0.5 - 1	2720	0.8	6.3	8.5	4.5	19.2	7.4	7	0.38	0.070	100
1.5 - 2.5	2730	0.8	6.3	8.5	4.5	19.2	7.4	7	0.38	0.075	100
4 - 6	2750	0.8	6.3	8.5	4.5	19.2	7.4	7	0.38	0.090	100

Non-insulated receptacles with lateral conductor connector



► For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
 ► Improved contact properties due to grooved profile

Material

- Brass (CuZn)

Surface

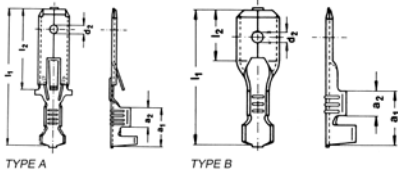
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 174

Nominal cross section mm ²	Part No.	Tab Thickn.	Tab Width	Typ	Dimension mm						Weight/pcs. ~kg	Packing unit/pcs
					a1	a2	l1	l2	l3	l4		
0.5 - 1	3720	0.8	6.3	B	11.0	3.0	12.5	7.4	4.0	7.2	0.080	100
0.5 - 1.5	3725	0.8	6.3	C	7.5	4.0	11.00	7.4	4.0	7.2	0.085	100
1.5 - 2.5	3735	0.8	6.3	B	11.0	3.0	13.5	7.0	4.0	7.2	0.085	100

Non-insulated tabs



- ▶ For fine and superfine stranded conductors, e.g. to DIN EN 60228 Cl. 5 and 6
- ▶ Improved contact properties due to grooved profile



Material

- Brass (CuZn)



Surface

- Tin-plated to protect against corrosion



Technical instructions

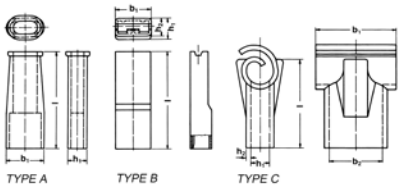
- Tool: see page 174

Additional information

- * = dimensions in the plug sector to DIN 46244

Nominal cross section mm ²	Nominal size to DIN	Part No.	Tab Thickn.	Tab Width	Typ	Hint	Dimension mm					Weight/pcs. ~kg	Packing unit/pcs
							a1	a2	d2	l1	l2		
0.5 - 1		2235	0.8	2.8	A	*	6.0	3.2	1.30	22.5	12.7	0.045	100
	46343 B6.3 - 1	2220	0.8	6.3	A		8.2	4.0	1.65	28.0	16.0	0.085	100
1.5 - 2.5	46248 A6.3 - 2.5	1830	0.8	6.3	B		9.0	4.5	1.65	20.0	8.0	0.065	100
	46343 B6.3 - 2.5	2230	0.8	6.3	A		8.2	4.0	1.65	28.0	16.0	0.090	100
4 - 6	46343 B6.3 - 6	2250	0.8	6.3	A		8.2	4.0	1.65	28.0	16.0	0.100	100

Insulation sleeves



- ▶ For non-insulated tabs
- ▶ Perfectly-matched to the different versions

Characteristics

- For post-insulation of crimped non-insulated receptacles

Material

- PA / PE / PVC

Nominal cross section mm ²	Nominal size to DIN	Part No.	Colour	Typ	Dimension mm			Insulation material	for item	Weight/pcs. ~kg	Packing unit/pcs
					b1	l	h1				
0.5 - 1	2.8	2755	□	A	5.0	20.0	3.5	PE	18251,18251A, 18201A	0.015	100
0.5 - 1.5	4.8	2760	□	A	7.0	20.0	4.0	PE	18202,18203	0.015	100



Insulation sleeves

Nominal cross section mm ²	Nominal size to DIN	Part No.	Colour	Typ	Dimension mm			Insulation material	for item	Weight/pcs. ~kg	Packing unit/pcs
					b1	l	h1				
0.5 - 2.5	6.3	2770		A	12.5	23.0	8.5	PE	1720,1730	0.035	100
		2775		A	9.5	25.0	5.0	PE	1820,1830	0.030	100
0.5 - 4	6.3	2780		A	9.5	25.0	6.0	PE	1720,1730, 1820,1830	0.030	100
0.5 - 6		2785		B	9.2	24.5	5.6	PA	1720,1730,1750, 2720,2730,2750	0.055	100
	2790		C	13.5	15.0	3.1	PVC	3720,3725, 3735	0.060	100	

Non-insulated tabs, angled version



Characteristics

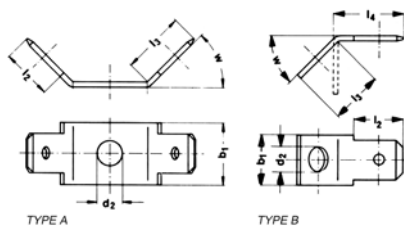
- To DIN 46342, part 1 and similar versions
- Dimensions in the plug sector to DIN 46244

Material

- Brass (CuZn)

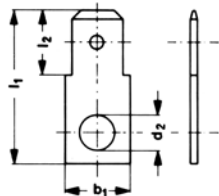
Surface

- Tin-plated to protect against corrosion



Nominal size to DIN	Part No.	Tab Thickn.	Tab Width	Typ	Dimension mm						Weight/pcs. ~kg	Packing unit/pcs
					b1	d2	l2	l3	l4	w		
--	2040	0.8	2.8	A	2.8	3.2	5.5	2.2	--	60°	0.040	100
	2045	0.8	6.3	A	6.3	4.3	8.0	4.0	--	45°	0.160	100
	2060	0.8	6.3	B	6.3	4.3	8.0	4.0	10.7	30°	0.085	100
	2070	0.8	6.3	B	6.3	3.2	8.0	4.0	10.7	45°	0.085	100
	2075	0.8	6.3	B	6.3	4.3	8.0	4.0	10.7	45°	0.085	100
B 6.3 - 0.8	2080	0.8	6.3	B	6.3	4.3	8.0	4.0	10.7	45°	0.085	100
	2083	0.8	6.3	B	6.3	5.3	8.0	4.0	10.7	45°	0.080	100
--	2090	0.8	6.3	B	6.3	5.3	8.0	4.0	10.7	45°	0.080	100
	2100	0.8	6.3	B	6.3	2.5	8.0	4.0	11.5	90°	0.075	100
	2105	0.8	6.3	B	6.3	3.2	8.0	4.0	11.5	90°	0.085	100
C 6.3 - 0.8	2115	0.8	6.3	B	6.3	4.3	8.0	4.0	11.5	90°	0.090	100

Non-insulated tabs, straight version



TYPE A

Characteristics

- To DIN 46342, part 1 and similar versions
- Dimensions in the plug sector to DIN 46244

Material

- Brass (CuZn)

Surface

- Tin-plated to protect against corrosion

Nominal size to DIN	Part No.	Tab Thickn.	Tab Width	Typ	Dimension mm					Weight/pcs. ~kg	Packing unit/pcs
					b1	d2	l1	l2	s		
--	2123	0.8	2.8	A	4.5	3.1	13.0	5.5	0.8	0.028	100
A 6.3 - 0.8	2140	0.8	6.3	A	8.0	4.3	19.0	8.0	0.8	0.086	100
--	2145	0.8	6.3	A	8.0	5.3	19.0	8.0	0.8	0.080	100

Non-insulated tabs for soldering



► Material used offers very good soldering characteristics

Characteristics

- Dimensions in the plug sector to DIN 46244
- For soldering in printed circuits

Material

- Brass (CuZn)

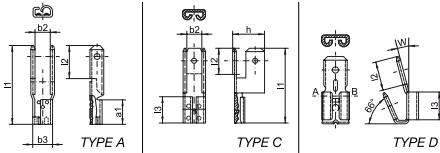
Surface

- Tin-plated to protect against corrosion

Part No.	Tab Thickn.	Tab Width	Typ	Dimension mm								Weight/pcs. ~kg	Packing unit/pcs
				b1	b2	b3	l1	l2	l3	l4	s		
2010	0.8	2.8	A	--	--	--	10.5	6.5	--	--	0.8	0.015	100
2020	0.5	2.8	C	1.0	5	--	--	7.1	8	13.4	0.5	0.025	100
2025	0.8	2.8	C	1.0	5	--	--	7.1	8	13.4	0.8	0.040	100
2030	0.8	6.3	D	3.5	5	6.4	16.0	8.0	4	12.0	0.8	0.065	100
2035	0.8	6.3	E	3.8	5	6.2	16.0	8.0	3	12.0	0.8	0.085	100



Non-insulated multiple tabs



Characteristics

- Dimensions in the plug sector to DIN 46244

Material

- Brass (CuZn)

Surface

- Tin-plated to protect against corrosion

Part No.	Tab Thickn.	Tab Width	Typ	Dimension mm									Weight/pcs. ~kg	Packing unit/pcs
				a1	b2	b3	l1	l2	l3	h	w			
735	0.8	2.8	A	5	3.2	3.1	16.0	6.7	--	--	--	0.060	100	
755	0.8	4.8	C	--	4.4	--	20.0	7.0	7.0	8.0	--	0.155	100	
725	0.8	6.3	D	--	--	--	--	8	7.5	--	15°	0.115	100	
775	0.8	6.3	C	--	--	--	20.5	12	7.5	9.6	--	0.200	100	

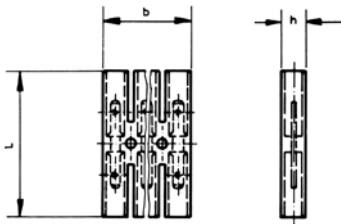
Flexible connector, tab width 2.8 mm, 4.8 mm and 6.3 mm

▶ No additional insulation required



Characteristics

- With tabs 2.8, 4.8 or 6.3 x 0.8 mm
- 1, 2 and 12-poles
- Further poles on request



Part No.	Tab Thickn.	Tab Width	Poles	Dimension mm				Insulation material	Bolt size mm		Weight/pcs. ~kg	Packing unit/pcs
				b	l	h	s		Distance	Diameter		
Tab Width 2.8 mm												
8101	0.8	2.8	1	7.5	35	5.5	0.8	PVC	--	--	0.2	100
8102	0.8	2.8	2	15.0	35	5.5	0.8	PVC	--	2.7	0.3	50
81012	0.8	2.8	12	88.0	35	5.5	0.8	PVC	75	2.7	1.6	10
Tab Width 4.8 mm												
8051	0.8	4.8	1	12.5	28	6.6	0.8	PVC	--	--	0.25	100
8052	0.8	4.8	2	25.0	28	6.6	0.8	PVC	--	3.2	0.50	50
80512	0.8	4.8	12	142.0	28	6.6	0.8	PVC	120	3.2	2.80	10
Tab Width 6.3 mm												
8001	0.8	6.3	1	12.5	28	6.6	0.8	PVC	--	--	0.30	100
8002	0.8	6.3	2	25.0	28	6.6	0.8	PVC	--	3.7	0.55	50
80012	0.8	6.3	12	142.0	28	6.6	0.8	PVC	120	3.7	3.20	10

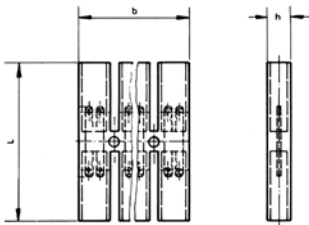
Polyamide connector, tab width 2.8 and 6.3 mm

► No additional insulation required



Characteristics

- With tabs 2.8 x 0.8 mm and 6.3 x 0.8 mm
- 1, 2 and 12-poles
- Further poles on request



Part No.	Tab Thickn.	Tab Width	Poles	Dimension mm				Insulation material	Bolt size mm		Weight/ pcs. ~kg	Packing unit/pcs
				b	l	h	s		Distance	Diameter		
8011	0.8	6.3 and 2 x 2.8	1	10.0	50	7.5	0.8	PA	--	--	0.25	100
8012	0.8	6.3 and 2 x 2.8	2	22.5	50	7.5	0.8	PA	--	3.1	0.50	50
80112	0.8	6.3 and 2 x 2.8	12	147.5	50	7.5	0.8	PA	125	3.1	3.10	10

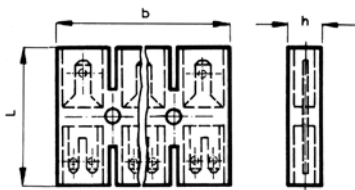
Flexible circuit distributor, tab width 2.8 mm

► No additional insulation required



Characteristics

- With tabs 2.8 x 0.8 mm
- 1 and 12-poles
- Further poles on request



Part No.	Tab Thickn.	Tab Width	Poles	Dimension mm				Insulation material	Bolt size mm		Weight/ pcs. ~kg	Packing unit/pcs
				b	l	h	s		Distance	Diameter		
8151	0.8	2.8	1	12.5	28	7	0.8	PVC	--	--	0.25	100
81512	0.8	2.8	12	147.0	28	7	0.8	PVC	123	3.2	2.80	10



Electrical connection systems

Cable connections, insulated and non insulated

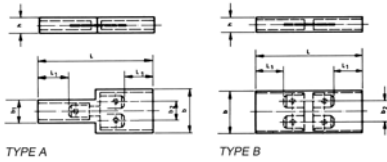
Flexible circuit distributor, tab width 6.3 mm

▶ No additional insulation required

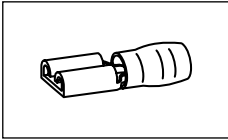


Characteristics

- With tabs 6.3 x 0.8 mm



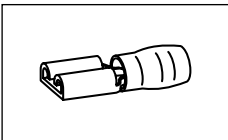
Part No.	Tab Thickn.	Tab Width	Typ	Dimension mm								Insulation material	Weight/ pcs. ~kg	Packing unit/pcs
				b	b1	b2	l	l1	h	s				
816	0.8	6.3	A	21	11.3	9	53	15	7.5	0.8	PVC	0.60	10	
817	0.8	6.3	B	20	11.3	9	51	13	7.0	0.8	PVC	0.65	10	



Tool application chart

Insulated cable connections

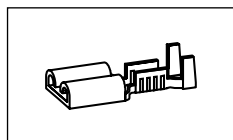
Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0,1 - 1	K80		218		○
	0,5 - 6	K82		219		○
	0,5 - 6	K82T		220		○
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	0,1 - 16	K50		235	313	○
		EK50ML		244	313	○
	0,5 - 6	K507		234		○
Battery powered crimping tools	0,1 - 16	EK1550ML		248	313	○



Tool application chart

Butt connectors with heat shrink insulation

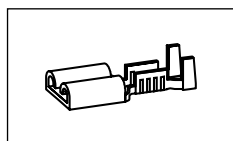
Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	0,1 - 16	K50		235	313	○
		EK50ML		244	313	○
	0,5 - 6	K82T		220		○
Battery powered crimping tools	0,1 - 16	EK1550ML		248	313	○



Tool application chart

Non-insulated receptacles, straight type

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0.1 - 1	K572		221		☺
	0.5 - 2.5	K582		221		☺
		K65		222		☺
	0.5 - 6	K592		222		☺
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	0.25 - 6	K50		235	313	☺
		EK50ML		244	313	☺
Battery powered crimping tools	0.25 - 6	EK1550ML		248	313	☺



Tool application chart

Non-insulated receptacles, with lateral conductor connector

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	3720, 3735	K50		235	313	☺
		EK50ML		244	313	☺
	3725	K50		235	313	☺
		EK50ML		244	313	☺
Battery powered crimping tools	3720, 3735	EK1550ML		248	313	☺
	3725	EK1550ML		248	313	☺

PRACTICAL - POCKET BOXES AND ASSORTMENT BOXES

A good professional is always well sorted. The most important thing is the availability of tool and connector material. In Klauke assortment boxes from robust metal, the tools are supplied with matching cable lugs and connectors. Everything matches. Materials and tools have their own space - clearly arranged and immediately to hand. The boxes equip you for every application. On request, we can also stock them to suit your individual needs.



In brief

- ▶ Brings order to the workplace due to clearly arranged design
- ▶ Everything to hand in one box
- ▶ Stocked to suit your needs and numerous versions available

► Practical and always to hand

With the practical pocket boxes, everything has its place and is always to hand, on the go and in the workshop. Chute openings for stackable pocket boxes simplify the removal of cable end-sleeves.

- Cable-end sleeves with and without insulation always to hand
- Practical chute opening for easy removal
- Stackable box
- Tough and impact-proof plastic



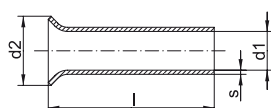
► Our range, your order

We have already compiled an assortment for you. We offer pre-filled boxes for various applications. You can also fill the robust box yourself if you want.

- High-quality boxes made from plastic or metal
- Contains tool and connectors matched to one other
- Even if exposed to severe vibrations or dropped, everything remains in the right compartment
- Boxes also available empty or custom-filled



ST 23 B Pocket box with cable end-sleeves 0.25 - 1 mm²



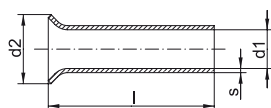
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item		Part No.		
Pocket box with cable end-sleeves 0.25 - 1 mm ² to DIN 46228 part 1		ST23B		
Scope of supply	Description	l mm	Quantity	Page
ST23L	Pocket box		1	
695V	Cable end-sleeve, 0.25 mm ² , 5 mm	5	1000	136
705V	Cable end-sleeve, 0.34 mm ² , 5 mm, Cu tinned	5	1000	136
716V	Cable end-sleeve, 0.75 mm ² , 6 mm	6	1000	136
71S6V	Cable end-sleeve, 0.5 mm ² , 6 mm, Cu tinned	6	500	136
72S6V	Cable end-sleeve, 1.0 mm ² , 6 mm	6	500	136

ST 21 B Pocket box with cable end-sleeves 0.5 - 2.5 mm²



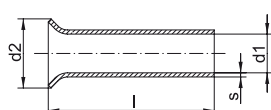
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item		Part No.		
Pocket box with cable end-sleeves 0.5 - 2.5 mm ² to DIN 46228 part 1		ST21B		
Scope of supply	Description	l mm	Quantity	Page
ST21L	Pocket box		1	
71S6V	Cable end-sleeve, 0.5 mm ² , 6 mm, Cu tinned	6	1000	136
716V	Cable end-sleeve, 0.75 mm ² , 6 mm	6	500	136
72S6V	Cable end-sleeve, 1.0 mm ² , 6 mm	6	500	136
727V	Cable end-sleeve, 1.5 mm ² , 7 mm	7	500	136
737V	Cable end-sleeve, 2.5 mm ² , 7 mm	7	500	136

ST 22 B Pocket box with cable end-sleeves 4 - 16 mm²



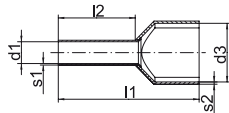
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item		Part No.		
Pocket box with cable end-sleeves 4 - 16 mm ² to DIN 46228 part 1		ST22B		
Scope of supply	Description	l mm	Quantity	Page
ST22L	Pocket box		1	
749V	Cable end-sleeve, 4 mm ² , 9 mm	9	200	137
7512V	Cable end-sleeve, 6 mm ² , 12 mm, Cu tinned	12	100	137
7612V	Cable end-sleeve, 10 mm ² , 12 mm, Cu tinned	12	70	137
7712V	Cable end-sleeve, 16 mm ² , 12 mm, Cu tinned	12	70	137

ST 15 B Pocket box with insulated twin cable end-sleeves 2 x 0.75 - 2 x 2.5 mm²



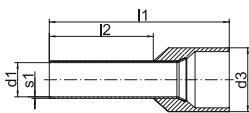
▶ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with twin cable end-sleeves 2 x 0.75 - 2 x 2.5 mm ²					ST15B
Scope of supply	Colour	Description	l2 mm	Quantity	Page
ST15L		Pocket box		1	
8708		Insl. twin cable end-sleeve, 2 x 0.75 mm ²	8	50	145
8718		Insl. twin cable end-sleeve, 2 x 1 mm ²	8	50	145
8728		Insl. twin cable end-sleeve, 2 x 1.5 mm ²	8	50	145
87310		Insl. twin cable end-sleeve, 2 x 2.5 mm ²	10	50	145

ST 1 B pocket box with insl. cable end-sleeves 0.5 - 2.5 mm², DIN 46228 Part 4



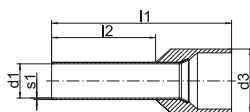
▶ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 0.5 - 2.5 mm ² , DIN 46228 Part 4, colour code 1					ST1B
Scope of supply	Colour	Description	l2 mm	Quantity	Page
ST1L		Pocket box		1	
1690		Insl. cable end-sleeve, 0.5 mm ² , 14 mm	8	50	140
170W		Insl. cable end-sleeve, 0.75 mm ² , 14.6 mm	8	100	141
171G		Insl. cable end-sleeve, 1 mm ² , 14.6 mm	8	100	141
172RO		Insl. cable end-sleeve, 1.5 mm ² , 14.6 mm	8	100	141
173B		Insl. cable end-sleeve, 2.5 mm ² , 15.2 mm	8	50	141

ST 11 B pocket box with insl. cable end-sleeves 0.5 - 2.5 mm², DIN 46228 Part 4



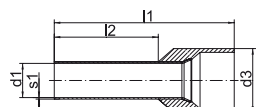
▶ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 0.5 - 2.5 mm ² , DIN 46228 Part 4					ST11B
Scope of supply	Colour	Description	l2 mm	Quantity	Page
ST11L		Pocket box		1	
4698		Insl. Cable end-sleeve, 0.5 mm ² , 14 mm	8	50	139
4708		Insl. cable end-sleeve, 0.75 mm ² , 14 mm	8	100	139
4718		Insl. cable end-sleeve, 1 mm ² , 14 mm	8	100	139
4728		Insl. cable end-sleeve, 1.5 mm ² , 14 mm	8	100	139
4738		Insl. cable end-sleeve, 2.5 mm ² , 14 mm	8	50	139

ST 31 B pocket box with insl. cable end-sleeves 0.5 - 2.5 mm², DIN 46228 Part 4, colour code 2



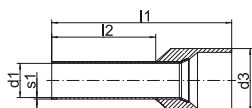
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 0.5 - 2.5 mm ² , DIN 46228 Part 4, colour code 2					ST31B
Scope of supply	Colour	Description	l2 mm	Quantity	Page
ST31L		Pocket box		1	
1698		Insl. cable end-sleeve, 0.5 mm ² , 13 mm	8	50	142
1708		Insl. cable end-sleeve, 0.75 mm ² , 13.5 mm	6	100	142
1718		Insl. cable end-sleeve, 1 mm ² , 13.5 mm	8	100	142
1728		Insl. cable end-sleeve, 1.5 mm ² , 13.5 mm	8	100	142
1738		Insl. cable end-sleeve, 2.5 mm ² , 14.5 mm	8	50	142

ST 12 B pocket box with insl. cable end-sleeves 4 - 16 mm², DIN 46228 Part 4



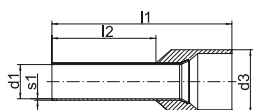
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 4 - 16 mm ² , DIN 46228 Part 4					ST12B
Scope of supply	Colour	Description	l2 mm	Quantity	Page
ST12L		Pocket box		1	
47410		Insl. cable end-sleeve, 4 mm ² , 17 mm	10	50	139
47512		Insl. cable end-sleeve, 6 mm ² , 20 mm	12	20	139
47612		Insl. cable end-sleeve, 10 mm ² , 22 mm	12	20	139
47712		Insl. cable end-sleeve, 16 mm ² , 24 mm	12	10	140

ST 2 B pocket box with insl. cable end-sleeves 4 - 16 mm², DIN 46228 Part 4, colour code 1



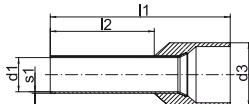
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 4 - 16 mm ² , DIN 46228 Part 4, colour code 1					ST2B
Scope of supply	Colour	Description	l2 mm	Quantity	Page
ST2L		Pocket box		1	
174GR		Insl. cable end-sleeve, 4 mm ² , 16.5 mm	10	50	141
175S		Insl. cable end-sleeve, 6 mm ² , 20 mm	12	20	141
176E		Insl. cable end-sleeve, 10 mm ² , 21.5 mm	12	20	141
177GR		Insl. cable end-sleeve, 16 mm ² , 22.2 mm	12	10	141

ST 32 B pocket box with insl. cable end-sleeves 4 - 16 mm², DIN 46228 Part 4, colour code 2



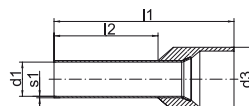
▶ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 4 - 16 mm ² , DIN 46228 Part 4, colour code 2					ST32B
Scope of supply	Colour	Description	l2 mm	Quantity	Page
ST32L		Pocket box		1	
17410		Insl. cable end-sleeve, 4 mm ² , 16.5 mm	10	50	142
17512		Insl. cable end-sleeve, 6 mm ² , 20 mm	18	20	142
17612		Insl. cable end-sleeve, 10 mm ² , 21.5 mm	12	20	143
17712		Insl. cable end-sleeve, 16 mm ² , 23.5 mm	12	10	143

ST 3 B pocket box with insl. cable end-sleeves 0.25 - 1 mm², DIN 46228 Part 4, colour code 1



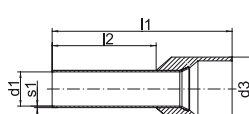
▶ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 0.25 - 1 mm ² , DIN 46228 Part 4, colour code 1					ST3B
Scope of supply	Colour	Description	l2 mm	Quantity	Page
ST3L		Pocket box		1	
167H		Insl. cable end-sleeve, 0.25 mm ² , 10.4 mm	6	30	140
168T		Insl. cable end-sleeve, 0.34 mm ² , 10.4 mm	6	30	140
1690		Insl. cable end-sleeve, 0.5 mm ² , 14 mm	8	30	140
170W		Insl. cable end-sleeve, 0.75 mm ² , 14.6 mm	8	30	141
171G		Insl. cable end-sleeve, 1 mm ² , 14.6 mm	8	30	141

ST 13 B pocket box with insl. cable end-sleeves 0.25 - 1 mm², DIN 46228 Part 4 & similar, colour code 1



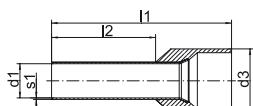
▶ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 0.25 - 1 mm ² , DIN 46228 Part 4 & similar, colour code 1					ST13B
Scope of supply	Colour	Description	l2 mm	Quantity	Page
ST13L		Pocket box		1	
167H		Insl. cable end-sleeve, 0.25 mm ² , 10.4 mm	6	30	140
168T		Insl. cable end-sleeve, 0.34 mm ² , 10.4 mm	6	30	140
4698		Insl. Cable end-sleeve, 0.5 mm ² , 14 mm	8	30	139
4708		Insl. cable end-sleeve, 0.75 mm ² , 14 mm	8	30	139
4718		Insl. cable end-sleeve, 1 mm ² , 14 mm	8	30	139

**ST 33 B pocket box with insl. cable end-sleeves 0.25-1 mm²,
DIN 46228 Part 4 & similar, colour code 2**



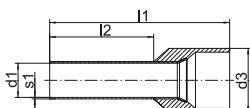
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item		Part No.			
Pocket box with insl. cable end-sleeves 0.25 - 1 mm ² , DIN 46228 Part 4 & similar, colour code 2		ST33B			
Scope of supply	Colour	Description	l2 mm	Quantity	Page
ST33L		Pocket box		1	
1676		Insl. cable end-sleeve, 0.25 mm ² , 11 mm	6	30	142
1686		Insl. cable end-sleeve, 0.34 mm ² , 11 mm	6	30	142
1698		Insl. cable end-sleeve, 0.5 mm ² , 13 mm	6	30	142
1708		Insl. cable end-sleeve, 0.75 mm ² , 13.5 mm	8	30	142
1718		Insl. cable end-sleeve, 1 mm ² , 13.5 mm	8	30	142

GR 4698 DO Pocket box with insulated cable end-sleeves 0.5 mm²



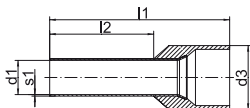
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item		Part No.			
Pocket box with insulated cable end-sleeves 0.5 mm ² to DIN 46228 part 4		GR4698DO			
Scope of supply	Colour	Description	l2 mm	Quantity	Page
4698		Insl. Cable end-sleeve, 0.5 mm ² , 14 mm	8	1000	139

GR 4708 DO Pocket box with insulated cable end-sleeves 0.75 mm²



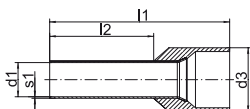
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item		Part No.			
Pocket box with insulated cable end-sleeves 0.75 mm ² DIN 46228 part 4		GR4708DO			
Scope of supply	Colour	Description	l2 mm	Quantity	Page
4708		Insl. cable end-sleeve, 0.75 mm ² , 14 mm	8	1000	139

GR 4718 DO Pocket box with insulated cable end-sleeves 1 mm²



► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item		Part No.			
Pocket box with insulated cable end-sleeves 1 mm ² DIN 46228 part 4		GR4718DO			
Scope of supply	Colour	Description	l2 mm	Quantity	Page
4718		Insl. cable end-sleeve, 1 mm ² , 14 mm	8	1000	139

GR 4728 DO Pocket box with insulated cable end-sleeves 1.5 mm²



▶ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item				Part No.		
Pocket box with insulated cable end-sleeves 1.5 mm ² DIN 46228 part 4				GR4728DO		
Scope of supply	Colour	Description	l2 mm	Quantity	Page	
4728	■	Insl. cable end-sleeve, 1.5 mm ² , 14 mm	8	1000	139	

GR 4738 DO Pocket box with insulated cable end-sleeves 2.5 mm²



▶ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item				Part No.		
Pocket box with insulated cable end-sleeves 2.5 mm ² DIN 46228 part 4				GR4738DO		
Scope of supply	Colour	Description	l2 mm	Quantity	Page	
4738	■	Insl. cable end-sleeve, 2.5 mm ² , 14 mm	8	1000	139	

ST 5 L assortment of empty pocket boxes



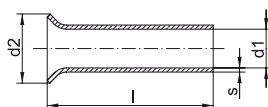
▶ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item		Part No.
Assortment of pocket boxes		ST5L

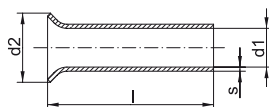
SK 30 B Steel assortment box with cable end-sleeves and crimping tool



▶ Hammer-tone finished assortment box
▶ Ideal for workshop equipment

Item		Dimension mm	Part No.		
Steel assortment box with cable end-sleeves and crimping tool		200 x 140 x 40	SK30B		
Scope of supply	Description	l mm	Quantity	Page	
SK30L	Steel carrying case		1	191	
K48	Crimping tool for cable end-sleeves 0.14 - 2.5 mm ²	6	1	210	
716V	Cable end-sleeve, 0.75 mm ² , 6 mm	6	1000	136	
72S6V	Cable end-sleeve, 1.0 mm ² , 6 mm	6	1000	136	
727V	Cable end-sleeve, 1.5 mm ² , 7 mm	7	1000	136	
737V	Cable end-sleeve, 2.5 mm ² , 7 mm	7	1000	136	

SK 32 B Steel assortment box with cable end-sleeves and crimping tool

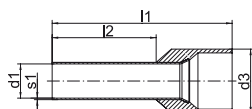


- ▶ Broad cable end-sleeve assortment appropriate crimping tool
- ▶ Hammer-tone finished assortment box
- ▶ Ideal for workshop equipment

Item	Dimension mm	Part No.
Steel assortment box with cable end-sleeves and crimping tool	285 x 155 x 45	SK32B

Scope of supply	Description	l mm	Quantity	Page
SK32L	Steel carrying case		1	191
K3	Crimping tool for cable end-sleeves 0.5 - 16 mm ²	8	1	209
716V	Cable end-sleeve, 0.75 mm ² , 6 mm	6	1000	136
72S6V	Cable end-sleeve, 1.0 mm ² , 6 mm	6	1000	136
727V	Cable end-sleeve, 1.5 mm ² , 7 mm	6	1000	136
737V	Cable end-sleeve, 2.5 mm ² , 7 mm	7	500	136
749V	Cable end-sleeve, 4 mm ² , 9 mm	9	500	137
7510V	Cable end-sleeve, 6 mm ² , 10 mm	10	500	137
7618V	Cable end-sleeve, 10 mm ² , 18 mm	18	250	137
7718V	Cable end-sleeve, 16 mm ² , 18 mm	18	150	137

SK 45 B Steel assortment box with insl. cable end-sleeves and crimping tool

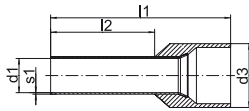


- ▶ Four of the most important insulated cable end-sleeve types in a steel carrying case including an appropriate crimping tool
- ▶ Hammer-tone finished assortment box
- ▶ Ideal for workshop equipment

Item	Dimension mm	Part No.
Steel assortment box with insl. cable end-sleeves and crimping tool	200 x 140 x 40	SK45B









Scope of supply	Colour	Description	l2 mm	Quantity	Page
SK30L		Steel carrying case		1	191
K48		Crimping tool for cable end-sleeves 0.14 - 2.5 mm ²	8	1	210
4708	■	Insl. cable end-sleeve, 0.75 mm ² , 14 mm	8	300	139
4718	■	Insl. cable end-sleeve, 1 mm ² , 14 mm	8	300	139
4728	■	Insl. cable end-sleeve, 1.5 mm ² , 14 mm	8	300	139
4738	■	Insl. cable end-sleeve, 2.5 mm ² , 14 mm		200	139

SK 47 B Steel assortment box with insl. cable end-sleeves and crimping tool

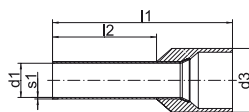


- ▶ Flexible use due to large cross-sectional range
- ▶ Hammer-tone finished assortment box
- ▶ Ideal for workshop equipment

Item	Dimension mm	Part No.
Steel assortment box with insl. cable end-sleeves and crimping tool	285 x 155 x 45	SK47B









Scope of supply	Colour	Description	l2 mm	Quantity	Page
SK32L		Steel carrying case		1	191
K3		Crimping tool for cable end-sleeves 0.5 - 16 mm ²		1	209
4708		Insl. cable end-sleeve, 0.75 mm ² , 14 mm	8	200	139
4718		Insl. cable end-sleeve, 1 mm ² , 14 mm	8	200	139
4728		Insl. cable end-sleeve, 1.5 mm ² , 14 mm	8	200	139
4738		Insl. cable end-sleeve, 2.5 mm ² , 14 mm	8	200	139
47410		Insl. cable end-sleeve, 4 mm ² , 17 mm	10	100	139
47512		Insl. cable end-sleeve, 6 mm ² , 20 mm	12	100	139
47618		Insl. cable end-sleeve, 10 mm ² , 28 mm	18	100	139
47718		Insl. cable end-sleeve, 16 mm ² , 28 mm	18	50	140

SK 30/3 P Assortment box from plastic with insl. cable end-sleeves and tools

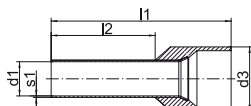


- ▶ With everything needed for conductor preparation
- ▶ The exact-shaped foam inlays of the case prevent the contents slipping even with severe impacts

Item	Dimension mm	Part No.
Plastic assortment box with insl. cable end-sleeves and tools	395 x 295 x 106	SK303P

Scope of supply	Colour	Description	l2 mm	Quantity	Page
K432		Automatic wire stripper K43/2 0.02 - 10 mm ²		1	525
K303		Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 10 mm ²	8	1	214
4698		Insl. Cable end-sleeve, 0.5 mm ² , 14 mm	8	400	139
4708		Insl. cable end-sleeve, 0.75 mm ² , 14 mm	8	400	139
4718		Insl. cable end-sleeve, 1 mm ² , 14 mm	8	400	139
4728		Insl. cable end-sleeve, 1.5 mm ² , 14 mm	8	400	139
4738		Insl. cable end-sleeve, 2.5 mm ² , 14 mm	10	200	139
47410		Insl. cable end-sleeve, 4 mm ² , 17 mm	12	200	139
47512		Insl. cable end-sleeve, 6 mm ² , 20 mm	12	100	139
47612		Insl. cable end-sleeve, 10 mm ² , 22 mm		100	139

SK 30/3 S Assortment box from plastic with insl. cable end-sleeves and crimping tool

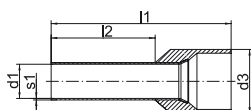


- ▶ With everything needed for conductor preparation
- ▶ The exact-shaped foam inlays of the case prevent the contents slipping even with severe impacts

Item	Dimension mm	Part No.
Plastic assortment box with insl. cable end-sleeves and crimping tool	275 x 230 x 83	SK303S

Scope of supply	Colour	Description	l2 mm	Quantity	Page
K303		Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 10 mm ²		1	214
4698	□	Insl. Cable end-sleeve, 0.5 mm ² , 14 mm	8	100	139
4708	■	Insl. cable end-sleeve, 0.75 mm ² , 14 mm	8	100	139
4718	■	Insl. cable end-sleeve, 1 mm ² , 14 mm	8	100	139
4728	■	Insl. cable end-sleeve, 1.5 mm ² , 14 mm	8	100	139
4738	■	Insl. cable end-sleeve, 2.5 mm ² , 14 mm	10	50	139
47410	■	Insl. cable end-sleeve, 4 mm ² , 17 mm	12	50	139
47512	■	Insl. cable end-sleeve, 6 mm ² , 20 mm	18	30	139
47612	■	Insl. cable end-sleeve, 10 mm ² , 22 mm	18	30	139

SK 43 NB Assortment box from plastic with insl. cable end-sleeves and tools



- ▶ With everything needed for conductor preparation
- ▶ Ideal for workshop equipment

Item	Dimension mm	Part No.
Steel assortment box with insl. cable end-sleeves and tools	370 x 210 x 40	SK43NB

Scope of supply	Colour	Description	l2 mm	Quantity	Page
SK43L		Steel carrying case		1	191
K432		Automatic wire stripper K43/2 0.02 - 10 mm ²		1	525
K32		TWIST-it Crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm ²		1	211
4698	□	Insl. cable end-sleeve, 0.5 mm ² , 14 mm	8	500	139
4708	■	Insl. cable end-sleeve, 0.75 mm ² , 14 mm	8	500	139
4718	■	Insl. cable end-sleeve, 1 mm ² , 14 mm	8	400	139
4728	■	Insl. cable end-sleeve, 1.5 mm ² , 14 mm	8	400	139
4738	■	Insl. cable end-sleeve, 2.5 mm ² , 14 mm	10	300	139
47410	■	Insl. cable end-sleeve, 4 mm ² , 17 mm	12	100	139
47512	■	Insl. cable end-sleeve, 6 mm ² , 20 mm	18	100	139
47612	■	Insl. cable end-sleeve, 10 mm ² , 22 mm	18	100	139

SK 65 B Assortment box from steel with tubular cable lugs and crimping tool



- ▶ Hammer-tone finished assortment box
- ▶ Ideal for workshop equipment

Characteristics

- Sturdy steel carrying case with lock and handle

Item	Dimension mm	Part No.
Steel assortment box with tubular cable lugs "standard type" and crimping tool K05	400 x 250 x 50	SK65B

Scope of supply	Description	Quantity	Page
SK65L	Steel carrying case	1	193
K05	Crimping tool for tubular cable lugs and connectors, standard type 6 - 50 mm ²	1	229
1R6	Tubular cable lug without inspection hole, 6 mm ² , M6, Cu tinned	25	14
1R8	Tubular cable lug without inspection hole, 6 mm ² , M8, Cu tinned	25	14
2R6	Tubular cable lug without inspection hole, 10 mm ² , M6, Cu tinned	25	14
2R8	Tubular cable lug without inspection hole, 10 mm ² , M8, Cu tinned	25	14
3R8	Tubular cable lug without inspection hole, 16 mm ² , M8, Cu tinned	25	14
3R10	Tubular cable lug without inspection hole, 16 mm ² , M10, Cu tinned	25	14
4R8	Tubular cable lug without inspection hole, 25 mm ² , M8, Cu tinned	25	14
4R10	Tubular cable lug without inspection hole, 25 mm ² , M10, Cu tinned	25	14
5R8	Tubular cable lug without inspection hole, 35 mm ² , M8, Cu tinned	20	14
5R10	Tubular cable lug without inspection hole, 35 mm ² , M10, Cu tinned	20	14
6R10	Tubular cable lug without inspection hole, 50 mm ² , M10, Cu tinned	20	15
6R12	Tubular cable lug without inspection hole, 50 mm ² , M12, Cu tinned	20	15

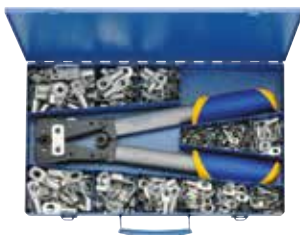
EVERYTHING UNDER CONTROL!

A selection of the most commonly used tubular cable lugs, including crimping tool arranged in an assortment box. There are also other packages in an L-BOXX. (see page 200, for example)

The perfectly coordinated L-BOXXes stand for intelligent mobility and are used for storage and for transport from the workshop to the construction site.



SK 50 B Steel assortment box with DIN compressed cable lugs and crimping tool



- ▶ Hammer-tone finished assortment box
- ▶ Ideal for workshop equipment

Characteristics

- Sturdy steel carrying case with lock and handle

Item	Dimension mm	Part No.	
Steel assortment box with DIN compression cable lugs and crimping tool	400 x 250 x 50	SK50B	
Scope of supply	Description	Quantity	Page
SK65L	Steel carrying case	1	193
K05D	Crimping tool for compression cable lugs and connectors (DIN 46235 / DIN 46267, Part 1) 6 - 50 mm ²	1	230
101R5	Compression cable lug, DIN 46235, 6 mm ² , M5, Cu tinned	50	56
101R6	Compression cable lug, DIN 46235, 6 mm ² , M6, Cu tinned	50	56
102R5	Compression cable lug, DIN 46235, 10 mm ² , M5, Cu tinned	50	56
102R6	Compression cable lug, DIN 46235, 10 mm ² , M6, Cu tinned	50	56
103R8	Compression cable lug, DIN 46235, 16 mm ² , M8, Cu tinned	25	56
103R10	Compression cable lug, DIN 46235, 16 mm ² , M10, Cu tinned	25	56
104R8	Compression cable lug, DIN 46235, 25 mm ² , M8, Cu tinned	25	56
104R10	Compression cable lug, DIN 46235, 25 mm ² , M10, Cu tinned	25	56
105R8	Compression cable lug, DIN 46235, 35 mm ² , M8, Cu tinned	20	56
105R10	Compression cable lug, DIN 46235, 35 mm ² , M10, Cu tinned	20	56
106R10	Compression cable lug, DIN 46235, 50 mm ² , M10, Cu tinned	15	57
106R12	Compression cable lug, DIN 46235, 50 mm ² , M12, Cu tinned	15	57

MK 230 B 507 Steel assortment box with insl. cable connections and crimping tool



- ▶ Hammer-tone finished assortment box
- ▶ Ideal for workshop equipment

Item	Dimension mm	Part No.
Steel assortment box with insl. cable connections and crimping tool	366 x 230 x 51	MK230B507

Scope of supply	Colour	Description	Quantity	Page
MK230L		Steel carrying case	1	192
K507		Crimping tool with replaceable dies	1	234
6204	■	Insl. solderless terminal M4, 0.5 - 1 mm ²	50	154
6205	■	Insl. solderless terminal M5, 0.5 - 1 mm ²	50	154
6206	■	Insl. solderless terminal M6, 0.5 - 1 mm ²	50	154
6304	■	Insl. solderless terminal M4, 1.5 - 2.5 mm ²	50	154
6305	■	Insl. solderless terminal M5, 1.5 - 2.5 mm ²	50	154
6306	■	Insl. solderless terminal M6, 1.5 - 2.5 mm ²	50	154
670	■	Insl. butt connector, 0.5 - 1 mm ²	50	163
680	■	Insl. butt connector, 1.5 - 2.5 mm ²	50	163
705	■	Insl. pin terminal, 0.5 - 1 mm ² , 22 mm	50	156
710	■	Insl. pin terminal, 1.5 - 2.5 mm ² , 23 mm	50	156
730	■	Insl. receptacle 6.3 x 0.8 mm, 1.5 - 2.5 mm ²	50	159
830	■	Insl. tab 6.3 x 0.8 mm, 1.5 - 2.5 mm ²	50	162
620C4	■	Insl. solderless terminal M4, 0.5 - 1 mm ²	50	155
630C4	■	Insl. solderless terminal M4, 1.5 - 2.5 mm ²	50	155
715	■	Insl. pin terminal, 4 - 6 mm ² , 26 mm	25	156
700	■	Insl. butt connector, 4 - 6 mm ²	25	163
6505	■	Insl. solderless terminal M5, 4 - 6 mm ²	25	154
6506	■	Insl. solderless terminal M6, 4 - 6 mm ²	25	154
650C6	■	Insl. solderless terminal M6, 4 - 6 mm ²	25	155

SK 82 P Assortment box from plastic with insl. cable connections and tools



- ▶ With everything needed for conductor preparation
- ▶ The exact-shaped foam inlays of the case prevent the contents slipping even with severe impacts

Item	Dimension mm	Part No.		
Plastic assortment box with insl. cable connections and tools	395 x 295 x 106	SK82P		
Scope of supply	Colour	Description	Quantity	Page
K432		Automatic wire stripper K43/2 0.02 - 10 mm ²	1	525
K82A		Crimping tool for insulated cable connections 0.5 - 6 mm ²	1	219
6204	■	Insl. solderless terminal M4, 0.5 - 1 mm ²	50	154
6205	■	Insl. solderless terminal M5, 0.5 - 1 mm ²	50	154
670	■	Insl. butt connector, 0.5 - 1 mm ²	50	163
720	■	Insl. receptacle 6.3 x 0.8 mm, 0.5 - 1 mm ²	50	159
6304	■	Insl. solderless terminal M4, 1.5 - 2.5 mm ²	50	154
6305	■	Insl. solderless terminal M5, 1.5 - 2.5 mm ²	50	154
680	■	Insl. butt connector, 1.5 - 2.5 mm ²	50	163
730	■	Insl. receptacle 6.3 x 0.8 mm, 1.5 - 2.5 mm ²	50	159
6505	■	Insl. solderless terminal M5, 4 - 6 mm ²	20	154
6506	■	Insl. solderless terminal M6, 4 - 6 mm ²	20	154
700	■	Insl. butt connector, 4 - 6 mm ²	20	163
715	■	Insl. pin terminal, 0.1 - 0.4 mm ² , 26 mm	20	156
620C4	■	Insl. solderless terminal M4, 0.5 - 1 mm ²	20	155
630C4	■	Insl. solderless terminal M4, 1.5 - 2.5 mm ²	20	155
705	■	Insl. pin terminal, 0.5 - 1 mm ² , 22 mm	20	156
710	■	Insl. pin terminal, 1.5 - 2.5 mm ² , 23 mm	20	156

SK 82 S Assortment box from plastic with insl. cable connections and crimping tool



- ▶ The exact-shaped foam inlays of the case prevent the contents slipping even with severe impacts

Item	Part No.			
Plastic assortment box with insl. cable connections and crimping tool	SK82S			
Scope of supply	Colour	Description	Quantity	Page
K82A		Crimping tool for insulated cable connections 0.5 - 6 mm ²	1	219
6204	■	Insl. solderless terminal M4, 0.5 - 1 mm ²	20	154
6205	■	Insl. solderless terminal M5, 0.5 - 1 mm ²	20	154
670	■	Insl. butt connector, 0.5 - 1 mm ²	20	163
720	■	Insl. receptacle 6.3 x 0.8 mm, 0.5 - 1 mm ²	20	159
6304	■	Insl. solderless terminal M4, 1.5 - 2.5 mm ²	20	154
680	■	Insl. butt connector, 1.5 - 2.5 mm ²	20	163
730	■	Insl. receptacle 6.3 x 0.8 mm, 1.5 - 2.5 mm ²	20	159
6305	■	Insl. solderless terminal M5, 1.5 - 2.5 mm ²	20	154

SK 30 L Steel carrying case



▶ Hammer-tone finished assortment box

Characteristics

- 4 small and 1 large additional compartments with lock

Suitable for

- For optional storage of crimping tools type K1, K4, K46 and K48

Item	Dimension mm	Weight kg	Part No.
Steel carrying case	200 x 140 x 40	1.2	SK30L

SK 32 L Steel carrying case



▶ Hammer-tone finished assortment box

Characteristics

- 8 small and 1 large additional compartments with lock

Suitable for

- For optional storage of crimping tools type K3 and K35

Item	Dimension mm	Weight kg	Part No.
Steel carrying case	285 x 155 x 45	1.3	SK32L

SK 4 L Steel carrying case



▶ Hammer-tone finished assortment box

Characteristics

- 6 small and 1 large additional compartments with lock

Suitable for

- For optional storage of crimping tools type K02, K2, K16, K25, K28 and K29

Item	Dimension mm	Weight kg	Part No.
Steel carrying case	370 x 160 x 40	1.4	SK4L

SK 43 L Steel carrying case



▶ Hammer-tone finished assortment box

Characteristics

- 8 small and 2 large additional compartments with lock

Suitable for

- For storage of crimping tool K 32 and wire stripper K 41

Item	Dimension mm	Weight kg	Part No.
Steel carrying case	370 x 210 x 40	1.9	SK43L



MK 55 Steel carrying case



▶ Hammer-tone finished assortment box

Characteristics

- 8 small and 1 large additional compartments with lock

Suitable for

- For storage of 8 pairs of dies and crimping tool K50

Item	Dimension mm	Weight kg	Part No.
Steel carrying case	245 x 130 x 37	0.7	MK55

MK 210 L Steel carrying case



▶ Hammer-tone finished assortment box

Characteristics

- 4 small and 1 large additional compartments with lock

Suitable for

- For storage of crimping tools K 10 or K 82

Item	Dimension mm	Weight kg	Part No.
Steel carrying case	250 x 155 x 40	1.0	MK210L

MK 220 L Steel carrying case



▶ Hammer-tone finished assortment box

Characteristics

- 8 small and 1 large additional compartments with lock

Suitable for

- For storage of crimping tools K 10 or K 82

Item	Dimension mm	Weight kg	Part No.
Steel carrying case	370 x 160 x 40	1.4	MK220L

MK 230 L Steel carrying case



▶ Hammer-tone finished assortment box

Characteristics

- 19 small and 1 large additional compartments with lock and handle

Suitable for

- For storage of crimping tools K 10 or K 82

Item	Dimension mm	Weight kg	Part No.
Steel carrying case	366 x 230 x 51	2.4	MK230L

SK 65 L Steel carrying case



▶ Hammer-tone finished assortment box

Characteristics

- 12 small and 1 large additional compartments with lock and handle

Suitable for

- For storage of crimping tools type K 05, K 05 BC, K 35/4

Item	Dimension mm	Weight kg	Part No.
Steel carrying case	400 x 250 x 50	2.3	SK65L

MK 18 Steel carrying case



▶ Hammer-tone finished assortment box

Characteristics

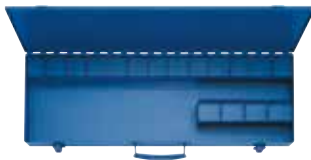
- 34 small and 1 large additional compartments with lock and handle

Suitable for

- For storage of 34 pairs of dies and crimping tool K 18

Item	Dimension mm	Weight kg	Part No.
Steel carrying case	605 x 300 x 50	4.6	MK18

MK 22 Steel carrying case



▶ Hammer-tone finished assortment box

Characteristics

- 17 small and 1 large additional compartments with lock and handle

Suitable for

- For storage of 17 pairs of dies and crimping tool K 22

Item	Dimension mm	Weight kg	Part No.
Steel carrying case	600 x 220 x 65	3.5	MK22

KKPE Plastic case



Characteristics

- With lock and handle

Suitable for

- For storing complete crimping die sets

Item	Part No.
Plastic case	KKPE
Plastic case	KKPEH25
Plastic case for crimping dies of series 13	KKPE13



MKU Steel carrying case with wheels



▶ Hammer-tone finished assortment box

Characteristics

- With additional compartment for dies with lock and handle

Suitable for

- For storage of hydraulic crimping tools HK12/2, HK25/2 or HK45

Item	Dimension mm	Weight kg	Part No.
Steel carrying case	810 x 310 x 210	10.0	MKU

TT2 Carrying case



Suitable for

- For storing all crimping and cutting heads (excluding SDK 105, SDK 120 and PK1000)

Item	Weight kg	Part No.
Carrying bag	0.48	TT2

TT4 Carrying case



Suitable for

- For storage of cutting heads SDK 105 and SDK 120

Item	Weight kg	Part No.
Carrying bag	0.73	TT4



SYSTEMATIC ORDER - L-BOXX FROM BS SYSTEMS

We must have order, especially when on the go. L-Boxx from BS Systems is a well thought out arrangement system for safely transporting your Klauke tool and connectors no matter what. Klauke products are safely stowed in the L-Boxx - matched to your individual equipment. Keep the overview!



In brief

- ▶ Available in various sizes
- ▶ Maximum protection due to shock and impact resistant materials
- ▶ Easy to transport with practical handle on the cover and the sides
- ▶ Simple stacking of several boxes thanks to click system

▶ Large or small?

The L-Boxx provides the right tool every time. Select what you need from the broad range of sizes. The boxes are always shock and impact resistant and can be stacked without risk of slipping due to a click system.

- Available in various sizes
- Shock and impact resistant
- Easy to transport with practical handles on the cover and on the sides
- Safe transportation and storage due to click system



▶ Everything practically packed

The L-Box doesn't just stow your tools - they also assign them exactly the right storage location. Trust in our Klauke system of pre-stocked boxes for various applications.

- Pre-stocked boxes equipped to your needs
- Choice for differing areas of applications
- Everything to hand in one box

▶ Sorted on the go

Do you need your toolboxes on the go? With the TÜV-tested Sortimo vehicle equipment, all Klauke tools and ranges can be systematically and safely transported in L-Boxxes.

- Quickly located thanks to the Sortimo system overview
- Avoid injury by securing the boxes against accidents and braking actions
- Short searching time for efficient operations



L-BOXX 65B from plastic with standard equipment for electrical installations



► Comprehensive equipment for conductor preparation, comprising cable cutter, cable knife, crimping tool and connectors

Characteristics

- Manufactured from shock and impact resistant ABS plastic, very robust, 100 kg capacity
- Stackable using an Easy-Click system, which allows easy opening and closing

Item	Dimension mm	Part No.
L-BOXX from plastic with standard equipment for electrical installations	442 x 357 x 117	LBOXX65B

Scope of supply	Description	Quantity	Page
K05	Crimping tool for tubular cable lugs and connectors, standard type 6 - 50 mm ²	1	229
K100	Hand-operated cutting tool for Cu and Al cables to 14 mm dia.	1	348
KL740416	Cable knife, without blade 4 - 16 mm dia.	1	528
1R6	Tubular cable lug without inspection hole, 6 mm ² , M6, Cu tinned	25	14
1R8	Tubular cable lug without inspection hole, 6 mm ² , M8, Cu tinned	25	14
2R6	Tubular cable lug without inspection hole, 10 mm ² , M6, Cu tinned	25	14
2R8	Tubular cable lug without inspection hole, 10 mm ² , M8, Cu tinned	25	14
3R10	Tubular cable lug without inspection hole, 16 mm ² , M10, Cu tinned	25	14
4R8	Tubular cable lug without inspection hole, 25 mm ² , M8, Cu tinned	20	14
4R10	Tubular cable lug without inspection hole, 25 mm ² , M10, Cu tinned	20	14
5R8	Tubular cable lug without inspection hole, 35 mm ² , M8, Cu tinned	20	14
5R10	Tubular cable lug without inspection hole, 35 mm ² , M10, Cu tinned	20	14
6R10	Tubular cable lug without inspection hole, 50 mm ² , M10, Cu tinned	15	15
LBOXX102LFG	L-BOXX with front handle	1	

L-BOXX with electromechanical crimping tool EK 50 ML 0.14 to 50 mm² and extensive additional equipment



Item	Dimension mm	Part No.
L-BOXX with electromechanical crimping tool EK 50 ML 0.14 - 50 mm ² and extensive additional equipment	442 x 357 x 151	LBOXXEK50ML

Scope of supply	Description	Quantity	Page
RAML1	Battery 10.8 V / 1.5 Ah, Li-Ion (16.2 Wh)	1	485
LGML1	Charger for 10.8 V Li-Ion batteries, 230 V	1	487
K118	Hand-operated cutting tool for Cu and Al cables to 12 mm dia.	1	348
AE502	Crimping dies AE 50, 10 - 25 mm ²	1	312
47612	Insl. cable end-sleeve, 10 mm ² , 22 mm	50	139
47712	Insl. cable end-sleeve, 16 mm ² , 24 mm	50	140
47818	Insl. cable end-sleeve DIN 46228 part 4, 25 mm ²	25	140
R505	Crimping dies R 50, 16 - 25 mm ²	1	312
3R8	Tubular cable lug without inspection hole, 16 mm ² , M8, Cu tinned	25	14
4R8	Tubular cable lug without inspection hole, 25 mm ² , M8, Cu tinned	25	14
AE503	Crimping dies AE 50, 35 - 50 mm ²	1	312
47918	Insl. cable end-sleeve DIN 46228 part 4, 35 mm ²	25	140
48025	Insl. cable end-sleeve DIN 46228 part 4, 50 mm ² , 40 mm long	20	140
IS5072	Crimping dies IS 50, single crimping, 10 - 16 mm ²	1	313
652C6	Insl. solderless terminal M6, 10 mm ² , fork-type	50	80
LBOXX136LFG	L-BOXX with front handle (W/D/H: 442 x 357 x 151 mm)	1	

L-BOXXes from plastic with tubular cable lugs



LBOXX3R8SET

► Comprehensive equipment for conductor preparation for construction site and workshop

Characteristics

- Manufactured from shock and impact resistant ABS plastic, very robust, 100 kg capacity
- Stackable using an Easy-Click system, which allows easy opening and closing

Item	Dimension mm	Part No.
L-BOXX from plastic with tubular cable lugs 16 - 95 mm ²	442 x 357 x 117	LBOXX3R8SET
L-BOXX from plastic with tubular cable lugs 50 - 185 mm ²	442 x 357 x 117	LBOXX6R10SET

Scope of supply	Description	Quantity	Page
LBOXX3R8SET			
3R8	Tubular cable lug without inspection hole, 16 mm ² , M8, Cu tinned	50	14
4R8	Tubular cable lug without inspection hole, 25 mm ² , M8, Cu tinned	50	14
5R8	Tubular cable lug without inspection hole, 35 mm ² , M8, Cu tinned	50	14
6R10	Tubular cable lug without inspection hole, 50 mm ² , M10, Cu tinned	30	15
7R10	Tubular cable lug without inspection hole, 70 mm ² , M10, Cu tinned	20	15
8R10	Tubular cable lug without inspection hole, 95 mm ² , M10, Cu tinned	20	15

Scope of supply	Description	Quantity	Page
LBOXX6R10SET			
6R10	Tubular cable lug without inspection hole, 50 mm ² , M10, Cu tinned	30	15
7R10	Tubular cable lug without inspection hole, 70 mm ² , M10, Cu tinned	20	15
8R10	Tubular cable lug without inspection hole, 95 mm ² , M10, Cu tinned	20	15
9R12	Tubular cable lug without inspection hole, 120 mm ² , M12, Cu tinned	12	15
10R12	Tubular cable lug without inspection hole, 150 mm ² , M12, Cu tinned	12	15
11R12	Tubular cable lug without inspection hole, 185 mm ² , M12, Cu tinned	12	15

L-BOXX 50B from plastic with standard equipment for electrical installations



► Comprehensive equipment for conductor preparation, comprising cable cutter, cable knife, crimping tool and connectors

Characteristics

- Manufactured from shock and impact resistant ABS plastic, very robust, 100 kg capacity
- Stackable using an Easy-Click system, which allows easy opening and closing

Item	Dimension mm	Part No.
L-BOXX from plastic with standard equipment for electrical installations	442 x 357 x 117	LBOXX65B

Scope of supply	Description	Quantity	Page
K05D	Crimping tool for compression cable lugs and connectors (DIN 46235 / DIN 46267, Part 1) 6 - 50 mm ²	1	230
K100	Hand-operated cutting tool for Cu and Al cables to 14 mm dia.	1	348
KL740416	Cable knife, without blade 4 - 16 mm dia.	1	528
101R6	Compression cable lug, DIN 46235, 6 mm ² , M6, Cu tinned	25	56
101R8	Compression cable lug, 6 mm ² , M8, Cu tinned	25	56
102R6	Compression cable lug, DIN 46235, 10 mm ² , M6, Cu tinned	25	56
102R8	Compression cable lug, 10 mm ² , M8, Cu tinned	25	56
103R10	Compression cable lug, DIN 46235, 16 mm ² , M10, Cu tinned	25	56
104R8	Compression cable lug, DIN 46235, 25 mm ² , M8, Cu tinned	20	56
104R10	Compression cable lug, DIN 46235, 25 mm ² , M10, Cu tinned	20	56
105R8	Compression cable lug, DIN 46235, 35 mm ² , M8, Cu tinned	15	56
106R8	Compression cable lug, DIN 46235, 50 mm ² , M8, Cu tinned	10	56
106R10	Compression cable lug, DIN 46235, 50 mm ² , M10, Cu tinned	10	57
LBOXX102LFG	L-BOXX with front handle	1	



L-BOXX 65BCB from plastic with blue connection® - equipment



► Extensive equipment based on the blue connection® product line, including crimping tool, cutting tool and cable knife

Characteristics

- Manufactured from shock and impact resistant ABS plastic, very robust, 100 kg capacity
- Stackable using an Easy-Click system, which allows easy opening and closing

Item	Dimension mm	Part No.	
L-BOXX from plastic with blue connection® equipment	442 x 357 x 117	LBOXX65BCB	
Scope of supply	Description	Quantity	Page
K05BC	Crimping tool for tubular cable lugs and connectors, blue connection® 6 - 50 mm ²	1	229
K100	Hand-operated cutting tool for Cu and Al cables to 14 mm dia.	1	348
KL740416	Cable knife, without blade 4 - 16 mm dia.	1	528
6B6	Tubular cable lugs, blue connection®, 6 mm ² , M6, Cu	25	28
6B8	Tubular cable lugs, blue connection®, 6 mm ² , M8, Cu	25	28
10B6	Tubular cable lugs, blue connection®, 10 mm ² , M6, Cu	25	28
10B8	Tubular cable lugs, blue connection®, 10 mm ² , M8, Cu	25	28
16B10	Tubular cable lugs, blue connection®, 16 mm ² , M10, Cu	25	28
25B8	Tubular cable lugs, blue connection®, 25 mm ² , M8, Cu	20	28
25B10	Tubular cable lugs, blue connection®, 25 mm ² , M10, Cu	20	28
35B8	Tubular cable lugs, blue connection®, 35 mm ² , M8, Cu	20	28
35B10	Tubular cable lugs, blue connection®, 35 mm ² , M10, Cu	20	28
50B10	Tubular cable lugs, blue connection®, 50 mm ² , M10, Cu	20	28
LBOXX102LFG	L-BOXX with front handle	1	

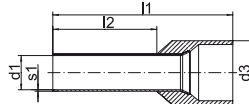
L-BOXX 230 B from plastic with standard equipment for electrical installations



Item	Dimension mm	Part No.
L-BOXX from plastic with standard equipment for electrical installations	442 x 357 x 117	LBOXX230B

Scope of supply	Colour	Description	Quantity	Page
K432		Automatic wire stripper K43/2 0.02 - 10 mm ²	1	525
K507		Crimping tool with replaceable dies	1	234
720	■	Insl. receptacle 6.3 x 0.8 mm, 0.5 - 1 mm ²	50	159
730	■	Insl. receptacle 6.3 x 0.8 mm, 1.5 - 2.5 mm ²	50	159
820	■	Insl. tab 6.3 x 0.8 mm, 0.5 - 1 mm ²	50	162
830	■	Insl. tab 6.3 x 0.8 mm, 1.5 - 2.5 mm ²	50	162
6204	■	Insl. solderless terminal M4, 0.5 - 1 mm ²	50	154
6305	■	Insl. solderless terminal M5, 1.5 - 2.5 mm ²	50	154
6506	■	Insl. solderless terminal M6, 4 - 6 mm ²	50	154
670	■	Insl. butt connector, 0.5 - 1 mm ²	50	163
680	■	Insl. butt connector, 1.5 - 2.5 mm ²	50	163
700	■	Insl. butt connector, 4 - 6 mm ²	25	163
1652C5		Solderless terminals fork type 10 mm ² , M5	50	78
1652C6		Solderless terminals fork type 10 mm ² , M6	50	78
16505		Solderless terminals DIN 46234, 4 - 6 mm ² , M5, Cu tinned	50	74
16506		Solderless terminals DIN 46234, 4 - 6 mm ² , M6, Cu tinned	50	74
4708	■	Insl. cable end-sleeve, 0.75 mm ² , 14 mm	400	139
4718	■	Insl. cable end-sleeve, 1 mm ² , 14 mm	400	139
4728	■	Insl. cable end-sleeve, 1.5 mm ² , 14 mm	400	139
4738	■	Insl. cable end-sleeve, 2.5 mm ² , 14 mm	200	139
47410	■	Insl. cable end-sleeve, 4 mm ² , 17 mm	100	139
47512	■	Insl. cable end-sleeve, 6 mm ² , 20 mm	100	139
47612	■	Insl. cable end-sleeve, 10 mm ² , 22 mm	100	139
LBOXX102LFG		L-BOXX with front handle	1	

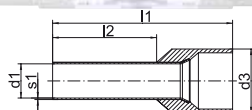
L-BOXX Mini from plastic with crimping tool and insl. cable end-sleeves 0.5 - 16 mm² NEW



Item	Part No.
L-BOXX from plastic with crimping tool and cable end-sleeves 0.5 - 16 mm ²	LBOXXMINIK3

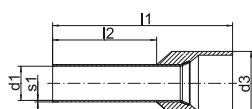
Scope of supply	Colour	Description	12 mm	Quantity	Page
K3		Crimping tool for cable end-sleeves 0.5 - 16 mm ²		1	209
K118		Hand-operated cutting tool for Cu and Al cables to 12 mm dia.		1	348
4728	■	Insl. cable end-sleeve, 1.5 mm ² , 14 mm	8	100	139
47312	■	Insl. cable end-sleeve, 2.5 mm ² , 18 mm	12	100	139
47412	■	Insl. cable end-sleeve, 4 mm ² , 20 mm	12	50	139
47512	■	Insl. cable end-sleeve, 6 mm ² , 20 mm	12	50	139
47612	■	Insl. cable end-sleeve, 10 mm ² , 22 mm	12	30	139
LBOXXMINIL		L-BOXX "Mini"		1	

L-BOXX Mini from plastic with crimping tool and insl. cable end-sleeves 1.5 - 10 mm²



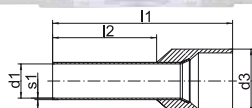
Item		Part No.			
L-BOXX from plastic with crimping tool and insl. cable end-sleeves 1.5 - 10 mm ²		LBOXXMINIK306K			
Scope of supply	Colour	Description	l2 mm	Quantity	Page
K306K		Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 16 mm ²		1	215
K118		Hand-operated cutting tool for Cu and Al cables to 12 mm dia.		1	348
4728	■	Insl. cable end-sleeve, 1.5 mm ² , 14 mm	8	100	139
47312	■	Insl. cable end-sleeve, 2.5 mm ² , 18 mm	12	100	139
47412	■	Insl. cable end-sleeve, 4 mm ² , 20 mm	12	50	139
47512	■	Insl. cable end-sleeve, 6 mm ² , 20 mm	12	50	139
47612	■	Insl. cable end-sleeve, 10 mm ² , 22 mm	12	30	139
LBOXXMINIL		L-BOXX "Mini"		1	

L-BOXX Mini from plastic with crimping tool and insl. cable end-sleeves 1.5 - 10 mm²



Item		Part No.			
L-BOXX from plastic with crimping tool and insl. cable end-sleeves 1.5 - 10 mm ²		LBOXXMINIK304K			
Scope of supply	Colour	Description	l2 mm	Quantity	Page
K304K		K 30/4 K crimping tool for cable end-sleeves 0.08 to 16 mm ² and twin cable end-sleeves 2 x 0,5 - 2 x 6 mm ²		1	214
K118		Hand-operated cutting tool for Cu and Al cables to 12 mm dia.		1	348
4728	■	Insl. cable end-sleeve, 1.5 mm ² , 14 mm	8	100	139
47312	■	Insl. cable end-sleeve, 2.5 mm ² , 18 mm	12	100	139
47412	■	Insl. cable end-sleeve, 4 mm ² , 20 mm	12	50	139
47512	■	Insl. cable end-sleeve, 6 mm ² , 20 mm	12	50	139
47612	■	Insl. cable end-sleeve, 10 mm ² , 22 mm	12	30	139
LBOXXMINIL		L-BOXX "Mini"		1	

L-BOXX Mini from plastic with crimping tool and insl. cable end-sleeves 1.5 - 10 mm²



Item		Part No.			
L-BOXX from plastic with crimping tool and insl. cable end-sleeves 1.5 - 10 mm ²		LBOXXMINIK3014K			
Scope of supply	Colour	Description	l2 mm	Quantity	Page
K3014K		Crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm ²		1	215
K118		Hand-operated cutting tool for Cu and Al cables to 12 mm dia.		1	348
4728	■	Insl. cable end-sleeve, 1.5 mm ² , 14 mm	8	100	139
47312	■	Insl. cable end-sleeve, 2.5 mm ² , 18 mm	12	100	139
47412	■	Insl. cable end-sleeve, 4 mm ² , 20 mm	12	50	139
47512	■	Insl. cable end-sleeve, 6 mm ² , 20 mm	12	50	139
47612	■	Insl. cable end-sleeve, 10 mm ² , 22 mm	12	30	139
LBOXXMINIL		L-BOXX "Mini"		1	

L-BOXXes with the new battery powered tools of the NEXT GENERATION

**NEXT
GENERATION**



NEW

This is just a small extract of our range. If you need a different combination, contact us.

Bosch battery

Tool	Crimping	Cutting	Punching	Part No.
EK 35/4	6 - 150 mm ²			LBOXXEK354CFB
EK 50/5	6 - 240 mm ²			LBOXXEK505CFB
EK 50/18	6 - 240 mm ²			LBOXXEK5018CFB
EKM 60/22	6 - 300 mm ²			LBOXXEKM6022CFB
EKM 60 ID	10 - 240 mm ²			LBOXXEKM60IDCFB
ES 20		max. 20 mm dia.		LBOXXES20CFB
ES 32 F		max. 32 mm dia.		LBOXXES32FCFB
ES 32		max. 32 mm dia.		LBOXXES32CFB
EKM 60 UNV	6 - 300 mm ²	max. 25 mm dia.	round/shape	LBOXXEKM60UNVCFB
LS 50 FLEX			round/shape	LBOXXLS50FLEXCFB

Makita battery

Tool	Crimping	Cutting	Punching	Part No.
EK 35/4	6 - 150 mm ²			LBOXXEK354CFM
EK 50/5	6 - 240 mm ²			LBOXXEK505CFM
EK 50/18	6 - 240 mm ²			LBOXXEK5018CFM
EKM 60/22	6 - 300 mm ²			LBOXXEKM6022CFM
EKM 60 ID	10 - 240 mm ²			LBOXXEKM60IDCFM
ES 20		max. 20 mm Ø		LBOXXES20CFM
ES 32 F		max. 32 mm dia.		LBOXXES32CFM
ES 32		max. 32 mm dia.		LBOXXES32CFM
EKM 60 UNV	6 - 300 mm ²	max. 25 mm dia.	round/shape	LBOXXEKM60UNVCFM
LS 50 FLEX			round/shape	LBOXXLS50FLEXCFM

Crimping & cutting

(shown is the scope of supply with Bosch battery)



Part No.	Scope of supply	LBOXX-								
		EK354	EK505	EK5018	EKM6022	EKM60ID	ES20	ES32	ES32F	EKM60UNV
RALB1EU	Bosch battery 18 V / 2.0 Ah, Li-Ion	•	•	•	•	•	•	•	•	•
LGLB1EU	Bosch charger for 18 V Li-Ion batteries	•	•	•	•	•	•	•	•	•
UA22	Adapter for crimping dies									•
LBOXX136LFG	L-BOXX (W/D/H: 442 x 357 x 151 mm)	•	•	•	•	•	•	•	•	•

Punching

(shown is the scope of supply with Bosch battery)



LBOXXLS50FLEX								
Part No.	RALB2EU	LGLB1EU	52085691	50032488	52049371	51300430	50339672	LBOXX136GL
Scope of supply	Bosch battery 18 V / 5.0 Ah, Li-Ion	Bosch charger for 18 V Li-Ion batteries	Draw stud for hydraulic operation 19 x 105 mm	Spacer, short	Kwik Stepper™ step bit with ROTASTOP® shaft 6-21 mm	Draw stud for punch with hydraulic operation 9.5 x 71 mm	Adapter 19 x 48 mm with internal thread 9.5 mm	L-BOXX (W/D/H: 442 x 357 x 151 mm)

PERFECT CRIMPED CONNECTIONS FOR SURE.

Klauke crimping tools give you peace of mind for optimum processing. The right crimping tool achieves connections that satisfy even the toughest requirements.





Crimping

Mechanical crimping tools	206
Mechanical crimping tools	208
Mechanical crimping tools with interchangeable dies	234
<hr/>	
Electromechanical crimping tool	243
<hr/>	
Battery powered crimping tool	246
10.8 V - base	247
18 V - base	252
<hr/>	
Hand-operated hydraulic crimping tools	279
<hr/>	
Hydraulic crimping heads and crimping systems	293
Hydraulic crimping heads	294
Hydraulic crimping systems	308
<hr/>	
Crimping dies	310
Series 50	312
Series 4	314
Series 5	319
Series 18	323
Series 22	327
Series 13	333
Series 15	338
Series 25	339
Series 45	342
Series 100	343

FULL FORCE TRANSMISSION - MECHANICAL CRIMPING TOOLS

Less force is more. Klauke crimping tools were developed specifically to make your work faster, more precise and simpler. Ergonomic handles ensure the right grip, improved lever effects provide a manual actuation that transmits your force exactly where it's needed: With 33 % less effort.



In brief

- ▶ Effortless operation due to a third less force
- ▶ Exact crimping with precise actuation
- ▶ Reliable assignment through clear marking of the crimping profiles
- ▶ Durable material
- ▶ Individually selectable crimping profiles from 0.08 mm² to 400 mm²

► Developed for a broad range of applications

To ensure efficient crimps, a good tool needs optimum force transmission and high-quality materials. So we developed our mechanical series to make your work easier. These function make the difference especially with frequent use.

- Crimping profiles with nominal cross-sections from 0.08 mm² to 400 mm²
- High-quality steel for long service life
- Best possible force transmission: Up to 33 % less effort
- Optimum crimp results with integrated ratchet
- Ergonomic design for fast and effortless operations





Crimping

Mechanical crimping tools

K 4 Crimping tool for cable end-sleeves 0.5 - 2.5 mm²



- ▶ Indent crimping for round clamp opening
- ▶ Simple and quick due to spring-actuated tool opening

Characteristics

- One crimp profile per cross-section
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Optimum handling due to ergonomically-shaped handle

Technical data

Crimping range 0.5 - 2.5 mm²

Length 150 mm

Weight 0.16 kg

Item	Part No.	
Crimping tool for cable end-sleeves 0.5 - 2.5 mm ²	K4	
Accessories	Part No.	Page
Steel carrying case	SK30L	191

K 46 Crimping tool for cable end-sleeves 1.5 - 6 mm²



- ▶ Indent crimping for round clamp opening
- ▶ Simple and quick due to spring-actuated tool opening

Characteristics

- One crimp profile per cross-section
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Optimum handling due to ergonomically-shaped handle

Technical data

Crimping range 1.5 - 6 mm²

Length 150 mm

Weight 0.16 kg

Item	Part No.	
Crimping tool for cable end-sleeves 1.5 - 6 mm ²	K46	
Accessories	Part No.	Page
Steel carrying case	SK30L	191

K 3 Crimping tool for cable end-sleeves 0.5 - 16 mm²



- ▶ Indent crimping for round clamp opening
- ▶ With wire cutter

Characteristics

- Optimum handling due to ergonomically-shaped handle
- Optimised crimp range (up to 3-times wider than before)
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Integrated cable stripper

Technical data		
Crimping range	0.5 - 16 mm ²	
Length	230 mm	
Weight	0.35 kg	
Item	Part No.	
Crimping tool for cable end-sleeves 0.5 - 16 mm ²	K3	
Accessories	Part No.	Page
Steel carrying case	SK32L	191
Variants	Part No.	Page
Steel assortment box with cable end-sleeves and crimping tool	SK32B	184
Steel assortment box with incl. cable end-sleeves and crimping tool	SK47B	185
L-BOXX from plastic with crimping tool and cable end-sleeves 0.5 - 16 mm ²	LBOXMINIK3	201

K 35 Crimping tool for cable end-sleeves 10 - 35 mm²



- ▶ Indent crimping for round clamp opening
- ▶ For large cross-sections to 35 mm²

Characteristics

- One crimp profile per cross-section
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Optimum handling due to ergonomically-shaped handle

Technical data		
Crimping range	10 - 35 mm ²	
Length	230 mm	
Weight	0.24 kg	
Item	Part No.	
Crimping tool for cable end-sleeves 10 - 35 mm ²	K35	
Accessories	Part No.	Page
Steel carrying case	SK32L	191



Crimping

Mechanical crimping tools

K 1 Crimping tool for cable end-sleeves 0.14 - 2.5 mm²



- ▶ Trapezoid crimping suitable for box terminals
- ▶ Quick repetition of work steps due to spring-actuated tool opening
- ▶ With wire stripping and cutting tool

Characteristics

- One crimp profile per cross-section
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Optimum handling due to ergonomically-shaped handle
- Interchangeable stripping blades

Technical data		
Crimping range	0.14 - 2.5 mm ²	
Length	175 mm	
Weight	0.19 kg	
Item	Part No.	
Crimping tool for cable end-sleeves 0.14 - 2.5 mm ²	K1	
Accessories	Part No.	Page
Steel carrying case	SK30L	191

K 48 Crimping tool for cable end-sleeves 0.14 - 2.5 mm²



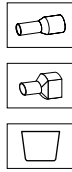
- ▶ Trapezoid crimping suitable for box terminals
- ▶ Quick repetition of work steps due to spring-actuated tool opening

Characteristics

- One crimp profile per cross-section
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Optimum handling due to ergonomically-shaped handle

Technical data		
Crimping range	0.14 - 2.5 mm ²	
Length	150 mm	
Weight	0.16 kg	
Item	Part No.	
Crimping tool for cable end-sleeves 0.14 - 2.5 mm ²	K48	
Accessories	Part No.	Page
Steel carrying case	SK30L	191
Variants	Part No.	Page
Steel assortment box with cable end-sleeves and crimping tool	SK30B	183
Steel assortment box with incl. cable end-sleeves and crimping tool	SK45B	184

K 36 Crimping tool for cable end-sleeves and twin cable end-sleeves 0.5 - 6 mm²



- ▶ Two crimping profiles with the cross-section areas 0.5 - 2.5 mm² and 4 - 6 mm²
- ▶ Quick repetition of work steps due to spring-actuated tool opening

Characteristics

- Front sleeve insertion (front crimping)
- Ergonomically-designed handle with slip guard

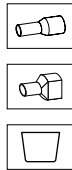
Technical data

Crimping range cable end-sleeves	0.5 - 2.5 and 4 - 6 mm ²
Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 1.5 and 2 x 2.5 - 2x4 mm ²
Length	200 mm
Weight	0.22 kg

Item	Part No.	
Crimping tool for cable end-sleeves 0.5 - 6 mm ² and twin cable end-sleeves 2 x 0.25 - 2 x 1.5 and 2 x 2.5 - 2 x 4 mm ²	K36	
Accessories	Part No.	Page
Steel carrying case	SK32L	191



K 32 TWIST-it Crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm²



- ▶ Unique long service life
- ▶ One crimping profile for all cross-sections due to automatic cross-section adjustment
- ▶ TWIST-it Crimping die for more flexibility and safety
- ▶ Lockable crimping die for error prevention
- ▶ Extremely small, light and ergonomic

Characteristics

- Quick change between front sleeve insertion and lateral insertion
- Serrated crimping die for optimal pull-out values of the crimp connection
- With ratchet for consistently controlled crimp results
- With safety eye for attaching a security strap
- Ergonomic design with a small hand opening angle and balanced weight

Suitable for

- Push-in, spring clamp and screw technology

Technical data

Crimping range cable end-sleeves	0.14 - 10 mm ²
Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 4 mm ²
Length	177 mm
Weight	0.298 kg

Item	Part No.	
Crimping tool for cable end-sleeves 0,14 - 10 mm ² and twin cable end-sleeves 2 x 0,25 - 2 x 4 mm ²	K32	
Accessories	Part No.	Page
Steel carrying case	SK43L	191
Steel carrying case	SK30L	191
Steel carrying case	SK32L	191



Crimping

Mechanical crimping tools

K 34 Crimping tool for cable end-sleeves and twin cable end-sleeves 6 - 16 mm²



- ▶ Trapezoid crimping suitable for box terminals
- ▶ Quick repetition of work steps due to spring-actuated tool opening
- ▶ One crimping profile for cross-sections from 6 - 16 mm² due to automatic cross-section adjustment

Characteristics

- With ratchet for consistently-controlled crimp results
- Front sleeve insertion (front crimping)
- Handle with slip guard and inscription panel

Technical data

Crimping range cable end-sleeves	6 - 16 mm ²
----------------------------------	------------------------

Crimping range twin cable end-sleeves	2 x 4 - 2 x 6 mm ²
---------------------------------------	-------------------------------

Length	210 mm
--------	--------

Weight	0.5 kg
--------	--------

Item	Part No.
Crimping tool for cable end-sleeves 6 - 16 mm ² and twin cable end-sleeves 2 x 4 - 2 x 6 mm ²	K34

Accessories	Part No.	Page
Steel carrying case	SK43L	191

K 37 Crimping tool for cable end-sleeves 0.14 - 6 mm²



- ▶ Trapezoid crimping suitable for box terminals
- ▶ Tool pre-tensioning adjustable

Characteristics

- Adjusting disc for compensating for the natural tool wear
- One crimp profile per cross-section
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool

Technical data

Crimping range	0.14 - 6 mm ²
----------------	--------------------------

Length	200 mm
--------	--------

Weight	0.36 kg
--------	---------

Item	Part No.
Crimping tool for cable end-sleeves 0.14 - 6 mm ²	K37

Accessories	Part No.	Page
Steel carrying case	SK43L	191

K 39 Crimping tool for cable end-sleeves 10 - 25 mm²



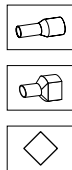
- ▶ Trapezoid crimping suitable for box terminals
- ▶ Sustainable crimps due to adjustable tool pre-tensioning

Characteristics

- Adjusting disc for compensating for the natural tool wear
- One crimp profile per cross-section
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool

Technical data		
Crimping range	10 - 25 mm ²	
Length	200 mm	
Weight	0.36 kg	
Item	Part No.	
Crimping tool for cable end-sleeves 10 - 25 mm ²	K39	
Accessories	Part No.	Page
Steel carrying case	SK43L	191

K 38/2 Crimping tool for cable end-sleeves and twin cable end-sleeves 0.5 - 6 mm²



- ▶ Square crimping suitable for box terminals and spring clamp technology
- ▶ Adjusting disc to compensate for the natural tool wear
- ▶ One crimping profile for cross-sections from 0.5 - 6 mm² due to automatic cross-section adjustment

Characteristics

- Accurate drive
- With ratchet for consistently-controlled crimp results
- Front sleeve insertion (front crimping)

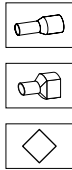
Technical data		
Crimping range cable end-sleeves	0.5 - 6 mm ²	
Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 2.5 mm ²	
Length	190 mm	
Weight	0.3 kg	
Item	Part No.	
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.5 - 6 mm ²	K382	
Accessories	Part No.	Page
Steel carrying case	SK43L	191



Crimping

Mechanical crimping tools

K 30/3 Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 10 mm²



► Square crimping suitable for box terminals and spring clamp technology

Characteristics

- One crimping profile for cross-sections from 0.08-10 mm² due to automatic cross-section adjustment
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Handle with slip guard and inscription panel

Technical data

Crimping range cable end-sleeves	0.08 - 10 mm ²
----------------------------------	---------------------------

Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 4 mm ²
---------------------------------------	----------------------------------

Length	190 mm
--------	--------

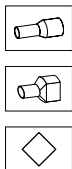
Weight	0.3 kg
--------	--------

Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 10 mm ²	K303

Accessories	Part No.	Page
Steel carrying case	SK30L	191

Variants	Part No.	Page
Plastic assortment box with insl. cable end-sleeves and tools	SK303P	185
Plastic assortment box with insl. cable end-sleeves and crimping tool	SK303S	186
Steel assortment box with insl. cable end-sleeves and tools	SK43NB	186

K 30/4 K Self-adjusting crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 16 mm²



► Square crimping K 30/4 K

Characteristics

- One crimping profile for cross-sections from 0.08-16 mm² due to automatic cross-section adjustment
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Positioner for small cable end-sleeves
- Handle with slip guard and inscription panel

Technical data

Crimping range cable end-sleeves	0.08 - 16 mm ²
----------------------------------	---------------------------

Crimping range twin cable end-sleeves	2 x 0.5 - 2 x 6 mm ²
---------------------------------------	---------------------------------

Length	215 mm
--------	--------

Weight	0.5 kg
--------	--------

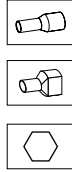
Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 16 mm ² , square crimping	K304K

Accessories	Part No.	Page
Steel carrying case	SK30L	191

Variants	Part No.	Page
L-BOXX from plastic with crimping tool and insl. cable end-sleeves 1.5 - 10 mm ²	LBOXXMINIK304K	202

**K 30/6 K Self-adjusting crimping tool
for cable end-sleeves and twin cable end-sleeves 0.08 - 16 mm²**

NEW



► Hexagonal crimping K 30/6 K

Characteristics

- One crimping profile for cross-sections from 0.08-16 mm² due to automatic cross-section adjustment
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Positioner for small cable end-sleeves
- Handle with slip guard and inscription panel

Technical data

Crimping range cable end-sleeves	0.08 - 16 mm ²
Crimping range twin cable end-sleeves	2 x 0.5 - 2 x 10 mm ²
Length	215 mm
Weight	0.5 kg

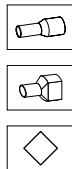
Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 16 mm ² , hexagonal crimping	K306K

Accessories	Part No.	Page
Steel carrying case	SK30L	191

Variants	Part No.	Page
L-BOXX from plastic with crimping tool and incl. cable end-sleeves 1.5 - 10 mm ²	LBOXXMINIK306K	202

**K 301/4 K Self-adjusting crimping tool
for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm²**

NEW



- Square crimping
- Very light and ergonomic

Characteristics

- One crimping profile for all cross-sections due to automatic cross-section adjustment
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Handle with slip guard and inscription panel
- Safety pad in handle for slip-free working

Technical data

Crimping range cable end-sleeves	0.14 - 10 mm ²
Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 4 mm ²
Length	175 mm
Weight	0.35 kg

Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm ²	K3014K

Variants	Part No.	Page
L-BOXX from plastic with crimping tool and incl. cable end-sleeves 1.5 - 10 mm ²	LBOXXMINIK3014K	202



K 301/6 K Self-adjusting crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm²



- ▶ Hexagonal crimping
- ▶ Very light and ergonomic



Characteristics

- One crimping profile for all cross-sections due to automatic cross-section adjustment
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Handle with slip guard and inscription panel
- Safety pad in handle for slip-free working



Technical data

Crimping range cable end-sleeves	0.14 - 10 mm ²
----------------------------------	---------------------------

Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 4 mm ²
---------------------------------------	----------------------------------

Length	175 mm
--------	--------

Weight	0.35 kg
--------	---------

Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm ²	K3016K

K 27/1 Crimping tool for cable end-sleeves and twin cable end-sleeves 2 x 4 - 50 mm²



- ▶ Special trapezoid crimping suitable for box terminals
- ▶ Special type, especially suitable for fine-stranded conductors



Characteristics

- One crimp profile per cross-section
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Handle with slip guard and inscription panel



Technical data

Crimping range cable end-sleeves	10 - 50 mm ²
----------------------------------	-------------------------

Crimping range twin cable end-sleeves	2 x 4 - 2 x 16 mm ²
---------------------------------------	--------------------------------

Length	335 mm
--------	--------

Weight	0.8 kg
--------	--------

Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 2 x 4 - 50 mm ²	K271

Accessories	Part No.	Page
Steel carrying case	SK4L	191

K 27/2 Crimping tool for cable end-sleeves 50 - 95 mm²



- ▶ Special trapezoid crimping suitable for box terminals
- ▶ Special type, especially suitable for fine-stranded conductors
- ▶ For large cross-sections to 95 mm²

Characteristics

- One crimp profile per cross-section
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Handle with slip guard and inscription panel

Technical data

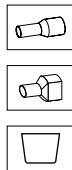
Crimping range 50 - 95 mm²

Length 335 mm

Weight 0.8 kg

Item	Part No.	
Crimping tool for cable end-sleeves 50 - 95 mm ²	K272	
Accessories	Part No.	Page
Steel carrying case	SK4L	191

K 28 Crimping tool for cable end-sleeves and twin cable end-sleeves 2 x 4 - 50 mm²



- ▶ Trapezoid crimping suitable for box terminals

Characteristics

- One crimp profile per cross-section
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Handle with slip guard and inscription panel

Technical data

Crimping range cable end-sleeves 10 - 50 mm²

Crimping range twin cable end-sleeves 2 x 4 - 2 x 16 mm²

Length 335 mm

Weight 0.8 kg

Item	Part No.	
Crimping tool for cable end-sleeves and twin cable end-sleeves 2 x 4 - 50 mm ²	K28	
Accessories	Part No.	Page
Steel carrying case	SK4L	191



Crimping

Mechanical crimping tools

K 29 Crimping tool for cable end-sleeves 50 - 95 mm²



- ▶ Trapezoid crimping suitable for box terminals
- ▶ For large cross-sections to 95 mm²

Characteristics

- One crimp profile per cross-section
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Handle with slip guard and inscription panel

Technical data

Crimping range 50 - 95 mm²

Length 335 mm

Weight 0.8 kg

Item	Part No.
Crimping tool for cable end-sleeves 50 - 95 mm ²	K29

Accessories	Part No.	Page
Steel carrying case	SK4L	191

K 80 Crimping tool for insulated cable connections 0.1 - 1 mm²



- ▶ Crimping of conductor and insulation in one step
- ▶ Adjusting disc to compensate for the natural tool wear

Characteristics

- Accurate drive
- With ratchet for consistently-controlled crimp results
- Colour-coded cross-section assignment
- Handle with slip guard and inscription panel

Technical data

Crimping range red insulation sleeve 0.5 - 1.0 mm²

Crimping range yellow insulation sleeve 0.1 - 0.4 mm²

Length 195 mm

Weight 0.38 kg

Item	Part No.
Crimping tool for insulated cable connections 0.1 - 1 mm ²	K80

Accessories	Part No.	Page
Steel carrying case	SK43L	191

K 82 Crimping tool for insulated cable connections 0.5 - 6 mm²



- ▶ With additional locator to ensure a precise crimp connection
- ▶ 33 % less effort
- ▶ 3-Component handle grip
- ▶ Optimised material quality for a long service life
- ▶ Precise pre-tension setting maintains constant crimp performance

Characteristics

- Less effort required due to new mechanical lever system
- 3C handle: YELLOW: hard core for force transmission, BLUE: soft ergonomic grip area, GREY: soft slip protection
- Easy handling thanks to reduced tool opening width, optimum ergonomics due to the position of the palms and fingers, which is gentle on the joints
- Crimping of conductor and insulation in one step

Technical data

Crimping range red insulation sleeve	0.5 - 1.0 mm ²
Crimping range blue insulation sleeve	1.5 - 2.5 mm ²
Crimping range yellow insulation sleeve	4.0 - 6.0 mm ²
Length	225 mm
Weight	0.53 kg

Item	Part No.	
Crimping tool for insulated cable connections 0.5 - 6 mm ²	K82A	
Accessories	Part No.	Page
Steel carrying case	MK230L	192
Variants	Part No.	Page
Plastic assortment box with insl. cable connections and crimping tool	SK82S	190
Plastic assortment box with insl. cable connections and tools	SK82P	190



Crimping

Mechanical crimping tools

K 82 T Crimping tool for insulated cable connections 0.5 - 6 mm²



- ▶ With additional locator to ensure a precise crimp connection
- ▶ Also suitable for the processing of insulated connectors with vibration protection
- ▶ 33 % less effort
- ▶ 3-Component handle grip
- ▶ Optimised material quality for a long service life
- ▶ Precise pre-tension setting maintains constant crimp performance

Characteristics

- Less effort required due to new mechanical lever system
- 3C handle: YELLOW: hard core for force transmission, BLUE: soft ergonomic grip area, GREY: soft slip protection
- Easy handling thanks to reduced tool opening width, optimum ergonomics due to the position of the palms and fingers, which is gentle on the joints
- Crimping of conductor and insulation in one step
- Extremely high voltage protection due to special crimping of the cable insulation (diamond crimp)

Technical data

Crimping range red insulation sleeve	0.5 - 1.0 mm ²
Crimping range blue insulation sleeve	1.5 - 2.5 mm ²
Crimping range yellow insulation sleeve	4.0 - 6.0 mm ²
Length	225 mm
Weight	0.53 kg

Item	Part No.	
Crimping tool for insulated cable connections 0.5 - 6 mm ²	K82T	
Accessories	Part No.	Page
Steel carrying case	MK230L	192
Variants	Part No.	Page
Plastic assortment box with insl. cable connections and crimping tool	SK82S	190
Plastic assortment box with insl. cable connections and tools	SK82P	190

K 16 Crimping tool for insulated solderless terminals 10 + 16 mm²



- ▶ Oval crimping
- ▶ Crimping tool also for meter connections

Characteristics

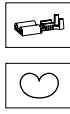
- With ratchet for consistently-controlled crimp results
- Colour-coded cross-section assignment

Technical data

Crimping range red insulation sleeve	10 mm ²
Crimping range blue insulation sleeve	16 mm ²
Length	305 mm
Weight	0.61 kg

Item	Part No.	
Crimping tool for insulated solderless terminals 10 + 16 mm ²	K16	
Accessories	Part No.	Page
Steel carrying case	SK4L	191

K 57/2 Crimping tool for non-insulated tabs and receptacles 2.8 mm; 0.1 - 1 mm²



- ▶ Roll crimping
- ▶ Crimping of conductor and insulation in one step
- ▶ Spring-actuated tool opening
- ▶ Tool pre-tensioning adjustable

Characteristics

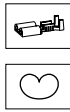
- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Adjusting disc for compensating for the natural tool wear

Suitable for

- Tabs with 2.8 mm tab width

Technical data	
Crimping range	0.1-1 mm ²
Length	220 mm
Weight	0.55 kg
Item	Part No.
Crimping tool for non-insulated tabs and receptacles 2.8 mm; 0.1-1 mm ²	K572

K 58/2 Crimping tool for non-insulated tabs and receptacles 4.8 mm; 0.5 - 2.5 mm²



- ▶ Roll crimping
- ▶ Crimping of conductor and insulation in one step
- ▶ Tool pre-tensioning adjustable

Characteristics

- Simple and quick due to spring-actuated tool opening
- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Adjusting disc for compensating for the natural tool wear

Suitable for

- Tabs with 4.8 mm tab width

Technical data	
Crimping range	0.5 - 2.5 mm ²
Length	220 mm
Weight	0.55 kg
Item	Part No.
Crimping tool for non-insulated tabs and receptacles 4.8 mm; 0.5 - 2.5 mm ²	K582



Crimping

Mechanical crimping tools

K 59/2 Crimping tool for non-insulated tabs and receptacles 6.3 mm; 0.5 - 6 mm²



- ▶ Roll crimping
- ▶ Crimping of conductor and insulation in one step
- ▶ Tool pre-tensioning adjustable

Characteristics

- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Simple and quick due to spring-actuated tool opening
- Adjusting disc for compensating for the natural tool wear

Suitable for

- Tabs with 6.3 mm tab width

Technical data

Crimping range	0.5 - 6 mm ²
Length	220 mm
Weight	0.51 kg

Item	Part No.
Crimping tool for non-insulated tabs and receptacles 6.3 mm; 0.5 - 6 mm ²	K592

K 65 Crimping tool for non-insulated tabs and receptacles 4.8 mm; 0.5 - 2.5 mm²



- ▶ Roll crimping
- ▶ Crimping of conductor and insulation in one step
- ▶ Spring-actuated tool opening

Characteristics

- With ratchet for consistently-controlled crimp results
- Parallel guided crimping jaws

Suitable for

- Tabs with 4.8 mm tab width

Technical data

Crimping range	0.5 - 2.5 mm ²
Length	265 mm
Weight	0.6 kg

Item	Part No.
Crimping tool for non-insulated tabs and receptacles 4.8 mm; 0.5 - 2.5 mm ²	K65

Accessories	Part No.	Page
Steel carrying case	MK210L	192

K 93 Crimping tool for connectors for solid conductors 1.5 - 4 mm²



- ▶ Hexagonal crimping
- ▶ Tool pre-tensioning adjustable

Characteristics

- Accurate drive
- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Handle with slip guard and inscription panel
- Adjusting disc for compensating for the natural tool wear

Technical data

Crimping range 1.5 - 4 mm²

Length 220 mm

Weight 0.56 kg

Item	Part No.
Crimping tool for connectors for solid conductors 1.5 - 4 mm ²	K93

K 94 Crimping tool for tubular cable lugs and connectors for solid conductors 6 - 10 mm²



- ▶ Hexagonal crimping
- ▶ Tool pre-tensioning adjustable

Characteristics

- Accurate drive
- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Handle with slip guard and inscription panel
- Adjusting disc for compensating for the natural tool wear

Technical data

Crimping range 6 - 10 mm²

Length 220 mm

Weight 0.56 kg

Item	Part No.
Crimping tool for tubular cable lugs and connectors for solid conductors 6 - 10 mm ²	K94



Crimping

Mechanical crimping tools

K 2 Crimping tool for tubular cable lugs and connectors, standard type 0.75 - 16 mm²



- ▶ Indent crimping
- ▶ Ideal crimping tool with spring-actuated tool opening

Characteristics

- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool

Technical data

Crimping range 0.75 - 16 mm²

Length 325 mm

Weight 0.6 kg

Item	Part No.
Crimping tool for tubular cable lugs and connectors, standard type 0.75 - 16 mm ²	K2

Accessories	Part No.	Page
Steel carrying case	SK4L	191

K 02 Crimping tool for tubular cable lugs and connectors for solid conductors 0.75 - 16 mm²



- ▶ Indent crimping
- ▶ Ideal crimping tool with spring-actuated tool opening
- ▶ For tubular cable lugs and connectors for solid conductors

Characteristics

- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool

Technical data

Crimping range 0.75 - 16 mm²

Length 325 mm

Weight 0.6 kg

Item	Part No.
Crimping tool for tubular cable lugs and connectors for solid conductors 0.75 - 16 mm ²	K02

Accessories	Part No.	Page
Steel carrying case	SK4L	191

K 25 Crimping tool 0.5 - 16 mm²



- ▶ Indent crimping
- ▶ Ideal crimping tool with spring-actuated tool opening
- ▶ For solderless terminals to DIN 46234, pin terminals to DIN 46230
- ▶ For nickel and stainless steel tubular cable lugs and connectors DIN EN 60228 Cl. 2 to 6 mm²

Characteristics

- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool

Technical data		
Crimping range	0.5 - 16 mm ²	
Length	325 mm	
Weight	0.6 kg	
Item	Part No.	
Crimping tool 0.5 - 16 mm ²	K25	
Accessories	Part No.	Page
Steel carrying case	SK4L	191

K 95 Crimping tool 16 - 95 mm²



- ▶ Indent crimping

Characteristics

- For smaller copper conductors
- Optimised force transmission

Suitable for

- Tubular cable-lugs and connectors, standard type
- Tubular cable lugs and connectors for fine-stranded conductors
- Solderless terminals DIN 46234, pin terminals DIN 46230

Technical data		
Crimping range	16 - 95 mm ²	
Length	630 mm	
Weight	3.6 kg	
Item	Part No.	
Crimping tool 16 - 95 mm ²	K95	

TK 95 Crimping tool 16 - 95 mm² for workbench mounting



- ▶ Indent crimping
- ▶ Ideal tool for workbench assembly

Characteristics

- For smaller copper conductors
- Optimised force transmission

Suitable for

- Tubular cable-lugs and connectors, standard type
- Tubular cable lugs and connectors for fine-stranded conductors
- Solderless terminals DIN 46234, pin terminals DIN 46230

Technical data		
Crimping range	16 - 95 mm ²	
Length	700 mm	
Weight	3.9 kg	
Item	Part No.	
Crimping tool 16 - 95 mm ² for workbench mounting	TK95	



Crimping

Mechanical crimping tools

K 5 / K 5 SP Crimping tools 6 - 50 mm²



- ▶ Indent crimping
- ▶ Version with ratchet for consistent checking of crimp results
- ▶ Low-maintenance mechanical drive

Characteristics

- For smaller copper conductors
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the dies

Suitable for

- Tubular cable-lugs and connectors, standard type
- Tubular cable lugs and connectors for fine-stranded conductors

Technical data	
Crimping range	6 - 50 mm ²
Length	600 mm
Weight	2.4 kg
Item	Part No.
Crimping tool 6 - 50 mm ²	K5
Crimping tool with ratchet, 6 - 50 mm ²	K5SP

K 6 / K 6 SP Crimping tools 50 - 120 mm²



- ▶ Indent crimping
- ▶ Version with ratchet for consistent checking of crimp results
- ▶ Low-maintenance mechanical drive

Characteristics

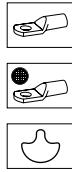
- For smaller copper conductors
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the dies
- Telescopic handles

Suitable for

- Tubular cable-lugs and connectors, standard type
- Tubular cable lugs and connectors for fine-stranded conductors

Technical data	
Crimping range	50 - 120 mm ²
Length	970 mm
Weight	4.4 kg
Item	Part No.
Crimping tool 50 - 120 mm ²	K6
Crimping tool with ratchet 50 - 120 mm ²	K6SP

K 07 / K 07 SP Crimping tools 185 - 400 mm²



- ▶ Indent crimping
- ▶ Extremely wide cross section range up to 400 mm²
- ▶ Version with ratchet for consistent checking of crimp results
- ▶ Low-maintenance mechanical drive

Characteristics

- Simple and safe: Exact cross-section assignment thanks to permanent marking on the dies
- Telescopic handles

Suitable for

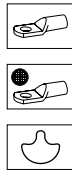
- Tubular cable-lugs and connectors, standard type
- Tubular cable lugs and connectors for fine-stranded conductors

Technical data

Crimping range	185 - 400 mm ²
Length	975 mm
Weight	4.7 kg

Item	Part No.
Crimping tool 185 - 400 mm ²	K07
Crimping tool with ratchet 185 - 400 mm ²	K07SP

K 7 / K 7 SP Crimping tools 120 - 240 mm²



- ▶ Indent crimping
- ▶ Large cross section range up to 240 mm²
- ▶ Version with ratchet for consistent checking of crimp results
- ▶ Low-maintenance mechanical drive

Characteristics

- Simple and safe: Exact cross-section assignment thanks to permanent marking on the dies
- Telescopic handles

Suitable for

- Tubular cable-lugs and connectors, standard type
- Tubular cable lugs and connectors for fine-stranded conductors

Technical data

Crimping range	120 - 240 mm ²
Length	975 mm
Weight	4.6 kg

Item	Part No.
Crimping tool 120 - 240 mm ²	K7
Crimping tool 120 - 240 mm ² with ratchet	K7SP



Crimping

Mechanical crimping tools

K 8 / K 8 SP Crimping tools 35 - 95 mm²



- ▶ Indent crimping
- ▶ Version with ratchet for consistent checking of crimp results
- ▶ Low-maintenance mechanical drive

Characteristics

- For smaller copper conductors
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the dies
- Telescopic handles

Suitable for

- Tubular cable-lugs and connectors, standard type
- Tubular cable lugs and connectors for fine-stranded conductors

Technical data

Crimping range 35 - 95 mm²

Length 970 mm

Weight 4.4 kg

Item	Part No.
Crimping tool 35 - 95 mm ²	K8
Crimping tool with ratchet 35 - 95 mm ²	K8SP

K 04 Crimping tool for tubular cable lugs and connectors, standard type 10 - 25 mm²



- ▶ Hexagonal crimping
- ▶ Tool pre-tensioning adjustable
- ▶ Large cross section range up to 25 mm²

Characteristics

- Energy-efficient ergonomic drive
- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Adjusting disc for compensating for the natural tool wear

Technical data

Crimping range 10 - 25 mm²

Length 260 mm

Weight 0.56 kg

Item	Part No.
Crimping tools for tubular cable lugs and connectors, standard type 10 - 25 mm ²	K04

**K 05 BC Syncro Crimping tools
for tubular cable lugs and connectors blue connection® 6 - 50 mm²**



- ▶ Accurate assignment of crimping tool/crimping die through colour-coding system
- ▶ Hexagonal crimping
- ▶ Synchronised die selection when in the open position
- ▶ Cross-section display on marked adjusting wheel
- ▶ For compacted conductors to DIN EN 60228

Characteristics

- Precisely synchronised head plate position for optimum and consistent crimp results
- Modern, rigid and lightweight elliptical handle tubes

Technical data

Crimping range 6 - 50 mm²

Length 390 mm

Weight 1.1 kg

Item	Part No.	
Syncro Crimping tool for tubular cable lugs and connectors, blue connection® 6 - 50 mm ²	K05BC	
Variants	Part No.	Page
L-BOXX from plastic with blue connection® - equipment	LBOXX65BCB	200

**K 05 / K 05 SP Syncro Crimping tools
for tubular cable lugs and connectors, standard type 6 - 50 mm²**



- ▶ Synchronised die selection when in the open position
- ▶ Cross-section display on marked adjusting wheel
- ▶ Version with ratchet for consistent crimp results

Characteristics

- Hexagonal crimping
- Precisely synchronised head plate position for optimum and consistent crimp results
- Modern, rigid and lightweight elliptical handle tubes
- Ergonomic 2-component handle with two-sided slip guard
- Smooth-running, durable and effortless tool mechanism

Technical data

Crimping range 6 - 50 mm²

Length 390 mm

Weight 1.1 kg

Item	Part No.	
Syncro Crimping tool for tubular cable lugs and connectors, standard type 6 - 50 mm ²	K05	
Syncro Crimping tool with ratchet for tubular cable lugs and connectors, standard type 6 - 50 mm ²	K05SP	
Variants	Part No.	Page
Steel assortment box with tubular cable lugs 6 - 50 mm ² and crimping tool K05	SK65B	187
L-BOXX from plastic with standard equipment for electrical installations	LBOXX65B	198



Crimping

Mechanical crimping tools

K 05 D / K 05 D SP Syncro Crimping tools for DIN compression cable lugs and connectors 6 - 50 mm²



- ▶ Synchronised die selection when in the open position
- ▶ Cross-section display on marked adjusting wheel
- ▶ Version with ratchet for consistent crimp results

Characteristics

- Hexagonal crimping
- Precisely synchronised head plate position for optimum and consistent crimp results
- Modern, rigid and lightweight elliptical handle tubes
- Ergonomic 2-component handle with two-sided slip guard
- Smooth-running, durable and effortless tool mechanism

Technical data		
Crimping range	6 - 50 mm ²	
Length	390 mm	
Weight	1.1 kg	
Item	Part No.	
Syncro Crimping tool for compression cable lugs and connectors (DIN 46235 / DIN 46267, Part 1) 6 - 50 mm ²	K05D	
Syncro Crimping tool with ratchet for compression cable lugs and connectors (DIN 46235 / DIN 46267 part 1) 6 - 50 mm ²	K05DSP	
Variants	Part No.	Page
Steel assortment box with DIN compression cable lugs and crimping tool	SK50B	188
L-BOXX from plastic with standard equipment for electrical installations	LBOXX50B	199

K 06 BC Syncro Crimping tools for tubular cable lugs and connectors blue connection® 6 - 120 mm²



- ▶ Accurate assignment of crimping tool/crimping die through colour-coding system
- ▶ Unique with extra large crimping range
- ▶ Hexagonal crimping
- ▶ Synchronised die selection when in the open position
- ▶ Cross-section display on marked adjusting wheel
- ▶ For compacted conductors to DIN EN 60228

Characteristics

- Precisely synchronised head plate position for optimum and consistent crimp results
- Modern, rigid and lightweight elliptical handle tubes

Technical data	
Crimping range	6 - 120 mm ²
Length	600 - 750 mm
Weight	2.6 kg
Item	Part No.
Syncro Crimping tool for tubular cable lugs and connectors, blue connection® 10 - 120 mm ²	K06BC

K 06 Syncro Crimping tools for tubular cable lugs and connectors, standard type 6 - 120 mm²



- ▶ Unique with extra large crimping range
- ▶ Hexagonal crimping
- ▶ Faster, safer and synchronous cross-section adjustment
- ▶ Ergonomic design
- ▶ Extremely light and rigid

Characteristics

- Precisely synchronised head plate position for optimum and consistent crimp results
- Modern, rigid and lightweight elliptical handle tubes

Technical data	
Crimping range	6 - 120 mm ²
Length	600 - 750 mm
Weight	2.6 kg
Item	Part No.
Syncro Crimping tools for tubular cable lugs and connectors, standard type 10 - 120 mm ²	K06

K 06 D Syncro Crimping tools for DIN compr. cable lugs and connectors 6 - 120 mm²



- ▶ Unique with extra large crimping range
- ▶ Hexagonal crimping
- ▶ Faster, safer and synchronous cross-section adjustment
- ▶ Ergonomic design
- ▶ Extremely light and rigid

Characteristics

- Precisely synchronised head plate position for optimum and consistent crimp results
- Modern, rigid and lightweight elliptical handle tubes

Technical data	
Crimping range	6 - 120 mm ²
Length	600 - 750 mm
Weight	2.6 kg
Item	Part No.
Syncro Crimping tool for compression cable lugs and connectors (DIN 46235 / DIN 46267, Part 1) 6 - 120 mm ²	K06D



Crimping

Mechanical crimping tools

K 09 BC Syncro Crimping tools for tubular cable lugs and connectors blue connection® 25 - 150 mm²



- ▶ Accurate assignment of crimping tool/crimping die through colour-coding system
- ▶ Unique with extra large crimping range
- ▶ Hexagonal crimping
- ▶ Synchronised die selection when in the open position
- ▶ Cross-section display on marked adjusting wheel
- ▶ For compacted conductors to DIN EN 60228

Characteristics

- Precisely synchronised head plate position for optimum and consistent crimp results
- Modern, rigid and lightweight elliptical handle tubes

Technical data	
Crimping range	25 - 150 mm²
Length	600 - 750 mm
Weight	2.9 kg
Item	Part No.
Syncro Crimping tool for tubular cable lugs and connectors, blue connection® 25 - 150 mm²	K09BC

K 09 Syncro Crimping tools for tubular cable lugs and connectors, standard type 25 - 150 mm²



- ▶ Unique with extra large crimping range
- ▶ Hexagonal crimping
- ▶ Faster, safer and synchronous cross-section adjustment
- ▶ Ergonomic design
- ▶ Extremely light and rigid

Characteristics

- Precisely synchronised head plate position for optimum and consistent crimp results
- Modern, rigid and lightweight elliptical handle tubes

Technical data	
Crimping range	25 - 150 mm²
Length	600 - 750 mm
Weight	2.9 kg
Item	Part No.
Syncro Crimping tools for tubular cable lugs and connectors, standard type 25 - 150 mm²	K09

K 09 D Syncro Crimping tools for DIN compression cable lugs and connectors, 25 - 150 mm²



- ▶ Unique with extra large crimping range
- ▶ Hexagonal crimping
- ▶ Faster, safer and synchronous cross-section adjustment
- ▶ Ergonomic design
- ▶ Extremely light and rigid

Characteristics

- Precisely synchronised head plate position for optimum and consistent crimp results
- Modern, rigid and lightweight elliptical handle tubes

Technical data

Crimping range	25 - 150 mm ²
Length	600 - 750 mm
Weight	2.9 kg

Item	Part No.
Syncro Crimping tool for compression cable lugs and connectors (DIN 46235 / DIN 46267, Part 1) 25 - 150 mm ²	K09D

K 511 / K 512 Crimping tools for gas-tight connections



- ▶ Parallel guided crimping jaws
- ▶ Suitable for gas-tight crimps in environments extremely harmful to crimps (e.g. ammonia gas)

Characteristics

- Optimised force transmission
- With ratchet for consistently-controlled crimp results
- Handle with slip guard and inscription panel

Suitable for

- Non-insulated tubular cable lugs, ring and fork type
- Parallel and butt connectors

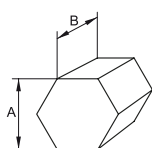
Technical data

Length	270 mm
Weight	0.7 kg

Item	Crimping range mm ²	Part No.
Mechanical crimping tool 1 - 4 mm ²	1-4	K511
Mechanical crimping tool 6 + 10 mm ²	6+10	K512



DN-K 74/2 Crimping tool for BNC connectors and coax cable



- ▶ Hexagonal crimping
- ▶ Tool pre-tensioning adjustable

Characteristics

- With ratchet for consistently-controlled crimp results
- Adjusting disc for compensating for the natural tool wear

Suitable for

- Coax cable RG 58, RG 59, RG 62 and RG 71

Technical data	
Length	220 mm
Weight	0.560 kg
Crimping dimension 1	A: 6.48 mm, B: 10 mm
Crimping dimension 2	A: 5.4 mm, B: 10 mm
Crimping dimension 3	A: 1.72 mm, B: 2.3 mm
Item	Part No.
Mechanical crimping tool for BNC connector, coax cable RG 58, RG 59, RG 62 and RG 71	DNK742

K 507 Crimping tool with interchangeable dies



- ▶ Fast change of crimping die, no tools required, without readjustment by special fixing system
- ▶ Additional crimping dies integrated in the handle

Characteristics

- With ratchet for consistently-controlled crimp results
- Adjusting disc for compensating for the natural tool wear

Technical data		
Length	220 mm	
Weight	0.635 kg	
Item	Part No.	
Crimping tool with interchangeable dies	K507	
Scope of supply	Part No.	Page
Crimping die for insulated connectors, 0.5 - 6 mm ²	IS5071	
Crimping dies AE 50, 0.14 - 10 mm ²	AE501	312
Crimping die for insulated connectors 0.5 - 6 mm ²	Q5071	
Variants	Art.-Nr.	Seite
Steel assortment box with insl. cable connections and crimping tool	MK230B507	189
L-BOXX from plastic with standard equipment for electrical installations	LBOXX230B	201

K 50 Crimping tool for interchangeable dies



K50
SERIE

- ▶ Parallel guided crimping jaws
- ▶ Fast change of crimping die without readjustment by special fixing system
- ▶ Exact positioning of the crimping dies due to die locating pins

Characteristics

- Optimised force transmission
- With ratchet for consistently-controlled crimp results
- Handle with slip guard and inscription panel

Technical data		
Length	220 mm	
Weight	0.6 kg	
Item	Part No.	
Crimping tool for interchangeable dies 0.1 - 50 mm ²	K50	
Accessories	Part No.	Page
Steel carrying case	MK55	192

Available dies for Series 50 for K 50

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type		0.75 - 10		312
Tubular cable lugs, Cu, standard type		6 - 25		312
Tubular cable lugs and connectors for solid conductors, Cu		1.5 - 10		312
Compression cable lugs and connectors acc. to DIN - Cu				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1)		6 - 25		312
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		0.5 - 10		312
Insulated solderless terminals and connectors		10 - 16		313
Cable end-sleeves				
Cable end-sleeves		0.14 - 50		312
Cable connections, insulated and non-insulated				
Insulated cable connections, single crimping		0.5 - 16		313
Insulated cable connections, double crimping		0.1 - 6		313
Non insulated receptacles		0.25 - 6		313
for pin and shielded receptacles, BNC connectors for coax cables RG 58, 59, 60 and 71				313
Turned pin connectors, pin receptacles		0.1 - 4		313



Crimping

Mechanical crimping tools

K 35/4 Crimping tool for interchangeable dies 6 - 150 mm²



K4
SERIE

- ▶ Very comfortable: Tool-less crimping die change
- ▶ Optimised for cable glands and control cabinet construction
- ▶ Energy-efficient and low-maintenance mechanical drive

Characteristics

- Narrow crimping
- Less effort due to extendible telescopic handle
- Flexible use: Head rotates 360°
- Fast, change of crimping die without readjustment by special fixing system







































Technical data

Length Stepless 420-590 mm

Weight 1.9 kg

Item	Part No.	
Crimping tool for interchangeable dies 6 - 150 mm ²	K354	
Accessories	Part No.	Page
Steel carrying case	SK65L	193

Available dies for Series 4 for K 35/4

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors blue connection for compacted conductors acc. to DIN EN 60228		6 - 150		314
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 150		314
Insulated cable lugs and compression joints, standard type, insulated pin terminals		10 - 70		314
Tubular cable lugs and connectors for fine stranded conductors		10 - 35		315
Tubular cable lugs and connectors for solid conductors		1.5 - 16		315
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		0.5 - 2.5		315
Stainless steel tubular cable lugs and connectors		4 - 16		315
Nickel tubular cable lugs and connectors		0.5 - 2.5		315
Nickel tubular cable lugs and connectors		4 - 16		315
Copper compression cable lugs and connectors to DIN				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) acc. to DIN		6 - 120		316
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		6 - 35		316
Insulated solderless terminals and connectors		10 - 16		316
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		10 sm - 150 se / 120 sm		317
Aluminium compression cable lugs and connectors acc. to DIN				
Aluminium compression cable lugs and connectors to DIN		10 - 70 rm/se, 16 - 95 re/se		317
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies HA4, copper side of aluminum/copper compression cable lugs and connectors: crimping dies HD4		10 - 70 rm/se, 16 - 95 re/se		317
Clamps				
Clamps, C-type		4 - 35		317
Cable end-sleeves				
Cable end-sleeves		10 - 50		317
Twin cable end-sleeves		2 x 4 - 2 x 16		318
Twin cable end-sleeves for fine stranded conductors		2 x 4 - 2 x 16		318



Crimping

Mechanical crimping tools

K 18 Crimping tool for interchangeable dies to DIN 48083, Part 1, 6 - 240 mm²



K18
SERIE

- ▶ Change of crimping dies without tools
- ▶ Optimised for cable glands and control cabinet construction
- ▶ Energy-efficient and low-maintenance mechanical drive

Characteristics

- Narrow crimping
- Less effort due to extendible telescopic handle
- Flexible use: Head rotates 360°
- Fast, change of crimping die without readjustment by special fixing system

Technical data





































Length Stepless 580-830 mm

Weight 2.5 kg

Item	Part No.	
Crimping tool for interchangeable dies acc. to DIN 48083, sheet 1, 6 - 240 mm ²	K18	
Accessories	Part No.	Page
Steel carrying case	MK18	193

Available dies for Series 18 for K 18

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs, standard type, tubular cable lugs for switch-gear connections		6 - 240		323
Connectors, standard type		6 - 95		323
Insulated tubular cable lugs and connectors, standard type, insulated pin terminals		10 - 95		323
Tubular cable lugs and connectors for fine stranded conductors		10 - 50		323
Tubular cable lugs and connectors for solid conductors		1.5 - 16		324
Copper compression cable lugs and connectors to DIN				
Compression cable lugs (DIN 46235)		6 - 185		324
Connectors DIN 46267		6 - 70		324
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		324
Insulated solderless terminals and connectors		10 - 50		324
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		10 sm - 300 se / 240 sm		325
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10-185 rm/sm, 16 - 240 re/se		325
Aluminium connectors		10 - 70		325
Compression joints for full-tension connections of Aldrey-conductors DIN EN 50182		25 - 95		325
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies A, copper side of aluminum/copper compression cable lugs and connectors: crimping dies D		10-185 rm/sm, 16 - 240 re/se		325
Clamps				
Clamps, C-type		4 - 50		325
Cable end-sleeves				
Cable end-sleeves		10 - 95		326
Twin cable end-sleeves		2 x 4 - 2 x 16		326
Twin cable end-sleeves, trapezoidal, for fine stranded conductors		2 x 4 - 2 x 16		326
Cutting die				
for cutting area		18 mm dia.		392



Crimping

Mechanical crimping tools

K 22 Crimping tool for interchangeable dies 6 - 300 mm²



- ▶ Change of crimping dies without tools
- ▶ Optimised for cable glands and control cabinet construction
- ▶ Energy-efficient and low-maintenance mechanical drive

Characteristics

- Narrow crimping
- Large cross section by half shell dies
- Less effort due to extendible telescopic handle
- Flip top style head rotates 360°
- Fast, change of crimping die without readjustment by special fixing system



































Technical data

Length	Stepless 560-860 mm
Weight	2.5 kg

Item	Part No.	
Crimping tool for interchangeable dies 6 - 300 mm ²	K22	
Accessories	Part No.	Page
Steel carrying case	MK22	193

Available dies for Series 22 for K 22

Refer to the limitations when crimping connectors in the technical appendix.











Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors blue connection for compacted conductors acc. to DIN EN 60228		6 - 300		328
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 300		327
Insulated cable lugs and compression joints, standard type, insulated pin terminals		10 - 150		327
Tubular cable lugs and connectors for fine stranded conductors		10 - 70		328
Tubular cable lugs and connectors for solid conductors		1.5 - 16		328
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		10 - 50		328
Nickel tubular cable lugs and connectors		10 - 50		328
Copper compression cable lugs and connectors to DIN				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) acc. to DIN		6 - 300		329
Double compression cable lugs		2 x 50 - 2 x 70		329
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		329
Insulated solderless terminals and connectors		10 - 70		329
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		10 sm - 300 se / 300 sm		330
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10 - 300 rm/sm, 16-400 re/se		330
Compression joints connections for Aldrey-conductors DIN EN 50182, Al-conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		330
Compression joints DIN 48085, part 3 for aluminium/steel conductors DIN EN 50182, aluminium crimping		25 / 4 - 120 / 20		331
Compression joints DIN 48085, part 3 for aluminium/steel conductors DIN EN 50182, steel crimping		25/4 - 120/20		331
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies A22, copper side of aluminum/copper compression cable lugs and connectors: crimping dies D22		10 - 300 rm/sm, 16-400 re/se		330

see next page



Crimping

Mechanical crimping tools

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Clamps				
Clamps, C-type		4 - 70		331
Clamps, H-type		70		331
Cable end-sleeves				
Cable end-sleeves, trapezoidal, for fine stranded conductors		10 - 240		332
Twin cable end-sleeves		2 x 4 - 2 x 16		332
Twin cable end-sleeves for fine stranded conductors		2 x 4 - 2 x 16		332



SO FAST IN SERIES PRODUCTION - THE KLAUKE MICRO

The Klauke Micro is as convenient and quick as a mechanical tool, and just as powerful and easy to handle as a battery-powered hydraulic tool. Compact and portable in one device! Thanks to the innovative PowerSense technology. This tool simplifies your work like never before.



Klauke *micro*

► Manual pre-clamping - motorized crimping

- Flexible to use with interchangeable crimping dies
- Broad application range of up to 50 mm²
- With LED illumination of the crimp position and the work area
- Low weight (< 1 kg)
- Intuitive operation thanks to PowerSense function
- Electronic control with ratchet function and motor stall protection
- Automatic retraction
- Long service life with servicing intervals of 35,000 cycles
- 3 year warranty on tool registration

Link to tool registration:
[www.klauke.com/en/werkzeugregistrierung/
login-tool-registration/](http://www.klauke.com/en/werkzeugregistrierung/login-tool-registration/)





Crimping

Electro mechanical crimping tool

EK 50 ML Electromechanical crimping tool 0.14 - 50 mm²



K50
SERIE

- ▶ The Klauke micro with intuitive PowerSense function combines the benefits of manual crimping tools with the convenience of battery powered hydraulic crimping tools
- ▶ Excellent crimps with minimum effort

Characteristics

- Simple and safe: One-button operating concept for controlling all tool functions
- Electronic control with locking function monitors full closing of the dies
- Simple and safe: Automatic retraction when operation is complete
- Manual retract as required
- Motor stall protection
- Ergonomic 2C housing in the Klauke "In-line Design"
- Tool fixing point for use with balancer aid or lanyard
- Very low weight and high speed for maximum efficiency
- Powerful drive technology for effortless operations
- Powerful 10.8 V Li-Ion battery with charge status display
- LED for work area illumination
- Maintenance display via LED
- Project-based reporting with Klauke i-press® software package

Suitable for























- 50-series interchangeable dies

Technical data	
Crimping force	max. 15 kN
Crimping range	0.14 - 50 mm ²
Number of crimps	approx. 300 at 10 mm ² Cu DIN 46234 / per battery charge
Battery voltage	10.8 V
Battery capacity	1.5 Ah, Li-Ion
Charging time	approx. 40 min.
Weight incl. battery	0.96 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No.	
Electromechanical crimping tool 0.14 - 50 mm ²	EK50ML	
Scope of supply		Page
Battery 10.8 V / 1.5 Ah, Li-Ion (16.2 Wh)	RAML1	485
Charger for 10.8 V Li-Ion batteries, 230V	LGML1	487
Crimping dies IS 50, double crimping, 0.5 - 6 mm ²	IS501	
Plastic case 450 x 370 x 105 mm	KKEK50ML	
Variants		Page
Electromechanical crimping tool 0.14 - 50 mm ² with RAML1 battery, no crimping die, case, charge	EK50ML-L	
L-BOXX with electro-mechanical crimping tool EK 50 ML 0.14 to 50 mm ² and extensive additional equipment	LBOXXEK50ML	198



Available dies of series 50 for EK 50 ML

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs, Cu, standard type		0.75 - 10		312
Tubular cable lugs and connectors, Cu, standard type		6 - 25		312
Tubular cable lugs and connectors for solid conductors, Cu		1.5 - 10		312
Compression cable lugs and connectors acc. to DIN - Cu				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1)		6 - 25		312
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		0.5 - 10		312
Insulated solderless terminals and connectors		10 - 16		313
Cable end-sleeves				
Cable end-sleeves		0.14 - 50		312
Cable connections, insulated and non-insulated				
Insulated cable connections, single crimping		0.5 - 16		313
Insulated cable connections, double crimping		0.1 - 6		313
Non insulated receptacles		0.25 - 6		313
for pin and shielded receptacles, BNC connectors for coax cables RG 58, 59, 60 and 71				313
Turned pin connectors, pin receptacles		0.1 - 4		313

THINK OF YOUR HEALTH!

Frequent manual crimping eventually leads to over-strain in the wrist and lower arm. To crimp with the EK 50 ML, you only need around 10% of the manual force required by a mechanical hand tool. Motorised crimping with the EK50ML is an investment that pays off!





Crimping

Battery powered hydraulic crimping tools 10,8 V

THE LITTLE CRIMPING EXPERT - BATTERY-POWERED HYDRAULIC CRIMPING TOOL (10.8 V)

We have made performance easy: The Klauke mini is light-weight yet powerful. The Klauke mini's practical dimensions make it the ideal solution for confined areas, in panel building for instance. A convenient expert for crimp to 150 mm² nominal cross-section.



Klauke *mini*

▶ Pure performance without frills

The Klauke mini concentrates on its core task: reliable crimping. Even without pressure sensor and display, the little expert does its job well - no fuss or quibble.

▶ Usage time at a glance

Read the charge level at any time from the powerful 10.8 V battery.

▶ All-round crimping

How can confined areas be easily reached? With crimping heads rotating through 360°.

EK 30 ID ML Battery powered hydraulic crimping tool 6 - 120 mm²

NEW









- ▶ Powerful 10.8 V Li-Ion battery technology with battery charge indicator
- ▶ Indent crimping - no change of crimping dies required

Characteristics

- Closed head, flip top style, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Comfortable and secure one-hand operation thanks to 2-component plastic housing with soft lining
- Effortless working thanks to low weight
- Automatic retraction when operation is complete
- Maintenance display via LED

Suitable for

- Very well suited for compacted conductors
- Especially for fine strand conductors to DIN EN 60228

Technical data			
Crimping force	30 kN		
Stroke / opening width	22 mm		
Crimping range	6 - 120 mm ²		
Crimping cycle	2,5 s up to 5 s (depending on crimp cross-section)		
Charging time	40 min.		
Weight incl. battery	1.95 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No.		
Battery powered hydraulic crimping tool 6 - 120 mm ²	EK30IDML		
Scope of supply			
Battery 10.8 V / 1.5 Ah, Li-Ion (16.2 Wh)	RAML1		
Charger for 10.8 V Li-Ion batteries, 230V	LGML1		
Plastic case	KKML		
Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 120	
Tubular cable lugs and connectors for fine stranded conductors		6 - 120	
Terminals, connectors and pin terminals acc. to DIN, copper			
Solderless terminals (DIN 46234), connectors (DIN 46341) and pin terminals (DIN 46230)		6 - 95	



Crimping

Battery powered hydraulic crimping tools

EK 15/50 ML Battery powered hydraulic crimping tool 0.14 - 50 mm²



- ▶ Long service life thanks to robust head
- ▶ Optimum crimping due to parallel guided crimping dies
- ▶ Effortless operations thanks to low weight
- ▶ Powerful 10.8 V Li-Ion battery technology with battery charge indicator

Characteristics

- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Comfortable and secure one-hand operation thanks to 2-component plastic housing with soft lining
- Simple and safe: Automatic retraction when operation is complete
- Maintenance display via LED

Suitable for

- 50-series interchangeable dies























Technical data

Crimping force	13 kN
Stroke / opening width	9 mm
Crimping range	0.14 - 50 mm ²
Crimping cycle	approx. 2 s
Number of crimps	approx. 230 at 10 mm ² Cu
Battery voltage	10.8 V
Battery capacity	1.5 Ah, Li-Ion
Charging time	approx. 40 min.
Weight incl. battery	1.5 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No.	
Battery powered hydraulic crimping tool 0.14 - 50 mm ²	EK1550ML	
Scope of supply	Part No.	Page
Battery 10.8 V / 1.5 Ah, Li-Ion (16.2 Wh)	RAML1	485
Charger for 10.8 V Li-Ion batteries, 230V	LGML1	487
Plastic case	KKML	



Available dies for Series 50 for EK 15/50 ML

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type		0.75 - 10		312
Tubular cable lugs, Cu, standard type		6 - 25		312
Tubular cable lugs and connectors for solid conductors, Cu		1.5 - 10		312
Compression cable lugs and connectors acc. to DIN - Cu				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1)		6 - 25		312
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		0.5 - 10		312
Insulated solderless terminals and connectors		10 - 16		313
Cable end-sleeves				
Cable end-sleeves		0.14 - 50		312
Cable connections, insulated and non-insulated				
Insulated cable connections, single crimping		0.5 - 16		313
Insulated cable connections, double crimping		0.1 - 6		313
Non insulated receptacles		0.25 - 6		313
for pin and shielded receptacles, BNC connectors for coax cables RG 58, 59, 60 and 71				313
Turned pin connectors, pin receptacles		0.1 - 4		313



Crimping

Battery powered hydraulic crimping tools

EK 35/4 ML Battery powered hydraulic crimping tool 6 - 150 mm²



- ▶ Large cross section range up to 150 mm²
- ▶ Slim crimping head - ideal when space is critical
- ▶ Powerful 10.8 V Li-Ion battery technology with battery charge indicator

Characteristics

- Closed head, flip top style, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Comfortable and secure one-hand operation thanks to 2-component plastic housing with soft grips
- Effortless working thanks to low weight
- Simple and safe: Automatic retraction when operation is complete
- Maintenance display via LED







































Suitable for

- 4-series interchangeable dies, narrow crimping



Technical data		
Crimping force	35 kN	
Stroke / opening width	9 mm	
Crimping range	6 - 150 mm ²	
Crimping cycle	3 s to 4 s (depending on crimp cross-section)	
Number of crimps	approx. 145 at 120 mm ² Cu	
Battery voltage	10.8 V	
Battery capacity	1.5 Ah, Li-Ion	
Charging time	approx. 40 min.	
Weight incl. battery	1.6 kg	
Ambient temperature	-10 °C up to +40 °C	
Item	Part No.	
Battery powered hydraulic crimping tool 6 - 150 mm ²	EK354ML	
Scope of supply	Part No.	Page
Battery 10.8 V / 1.5 Ah, Li-Ion (16.2 Wh)	RAML1	485
Charger for 10.8 V Li-Ion batteries, 230 V	LGML1	487
Plastic case	KKML	
Variants	Part No.	Page
EK 35/4 ML with crimping die set HR 4 from 6 - 150 mm ²	EK354MLSETHR	
EK 35/4 ML with crimping die set HD 4 from 6 - 120 mm ²	EK354MLSETHD	

Available dies for Series 4 for EK 35/4 ML

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors blue connection for compacted conductors acc. to DIN EN 60228		6 - 150		314
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 150		314
Insulated cable lugs and compression joints, standard type, insulated pin terminals		10 - 70		314
Tubular cable lugs and connectors for fine stranded conductors		10 - 35		315
Tubular cable lugs and connectors for solid conductors		1.5 - 16		315
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		0.5 - 2.5		315
Stainless steel tubular cable lugs and connectors		4 - 16		315
Nickel tubular cable lugs and connectors		0.5 - 2.5		315
Nickel tubular cable lugs and connectors		4 - 16		315
Copper compression cable lugs and connectors to DIN				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) acc. to DIN		6 - 120		316
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		6 - 35		316
Insulated solderless terminals and connectors		10 - 16		316
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		10 sm - 150 se / 120 sm		317
Aluminium compression cable lugs and connectors acc. to DIN				
Aluminium compression cable lugs and connectors to DIN		10 - 70 rm/se, 16 - 95 re/se		317
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies HA4, copper side of aluminum/copper compression cable lugs and connectors: crimping dies HD4		10 - 70 rm/se, 16 - 95 re/se		317
Clamps				
Clamps, C-type		4 - 35		317
Cable end-sleeves				
Cable end-sleeves		10 - 50		317
Twin cable end-sleeves		2 x 4 - 2 x 16		318
Twin cable end-sleeves for fine stranded conductors		2 x 4 - 2 x 16		318

THE NEW STANDARD - KLAUKE NEXT GENERATION CRIMPING TOOLS

To guarantee the quality, you can check the tool data from the display or via i-press® app at any time. You can easily make this information available to your customers as project documentation at the touch of a button. The balanced design ensures effortless and continuously high-quality operations up to the end of each working day.

**NEXT
GENERATION**

In brief

- ▶ Selectable battery platform: with Bosch or Makita
- ▶ Proof of quality can be created via Bluetooth
- ▶ Ensure tool availability: Read the tool properties from the display or via the app
- ▶ Effortless operations thanks to modern, ergonomic design

Interested in Klauke Next Generation tools? Then take a look at our Multi universal tool on [Page 467 >>](#)



► Making work easier

Klauke tools guarantee effortless operations: The “mini” impresses through its low weight and the pistol shape thanks to the balanced centre of gravity

- Our compact “mini” is just perfect for confined areas
- The 2-stage hydraulic system ensures fast operations with fast feed and power stroke (pistol shape)
- Especially impressive and reliable: The one-button control concept for all tools with automatic retraction

- The ARS function (Automatic Retraction Stop) stops the automatic retraction when a crimp is complete through a fully-automated process

► Guarantees quality

- All relevant tool data immediately in view on the integrated display
- In case of a fault, you are warned by a visual and audible signal from the tool

- Provide written proof of the quality of your work with i-press® - now simply and conveniently connect the tool to the computer via Bluetooth.



► i-press® software

Show your customers how well you work. Klauke Next Generation records your operations, and these can then be transmitted by Bluetooth. The free i-press® software uses these data to create for you, if you want, a project report - the proof of quality for your correct operations. You have control over your quality.

► i-press® app

Use the i-press® app to check and control your tool data on the go. Individual tool settings, such as the number of warning tones for an incorrect crimp or the double-click function for increased user safety, help make your day-to-day work simpler and more reliable - just as you need it.



The i-press® app can be found at:

www.klauke.com/en/service/downloads/connectivity-software/





Crimping

Battery powered hydraulic crimping tools

THE I-PRESS® APP AT A GLANCE

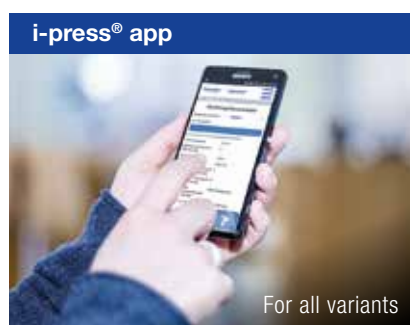
Compact and available at all times: Your smart-phone becomes the tool's nerve centre, simplifying your daily work routine – free-of-charge, guaranteed.



Made easy: Your Next Generation tool connects to the i-press® app via Bluetooth - you can now use the comprehensive range of functions.

Read the important tool information from the display and start new projects. All the information about your crimping operations is saved from now on. When the project is complete, an overview can be printed out, saved or submitted in the form of a report.

TIP: When you register as a user, subscribe to the Klauke Newsletter – that way, you will always be up-to-date.

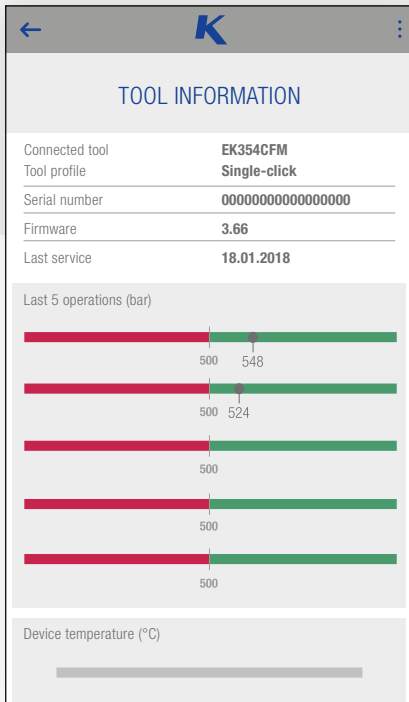


Keep an overview of all your tools even while on the go. and personalise your tool settings via the app.

For all variants

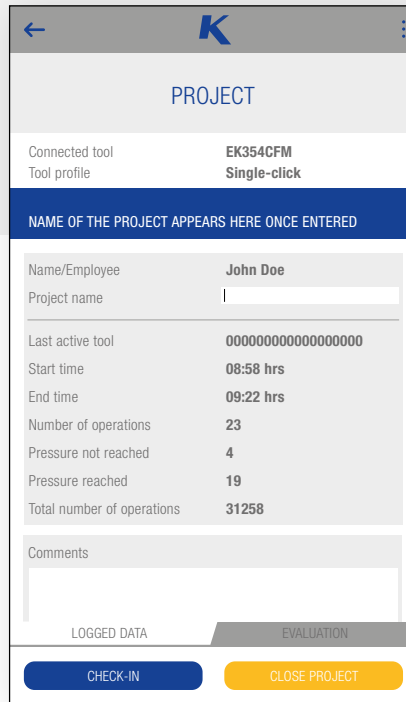
EASY TO OPERATE

Menu guidance function is easy and quick to understand thanks to the cascade function. You can start immediately, personalise your tool and use all the other functions.



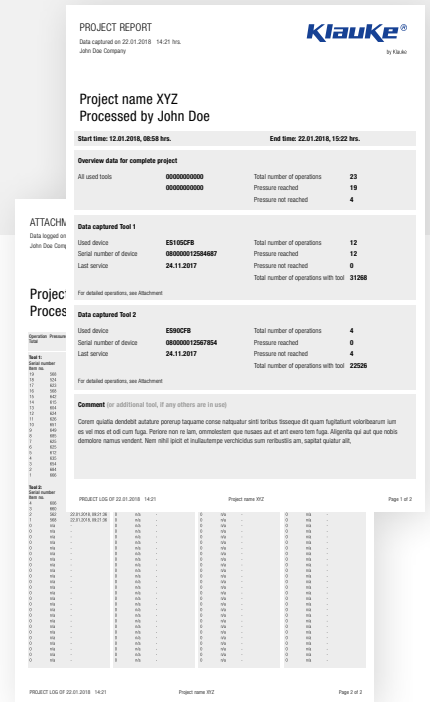
CREATING AND TRACKING PROJECTS

The last 5 pressure values, the device temperature or the remaining operations – all important information can be easily read off.



DOCUMENTING AND ARCHIVING

When a project is closed, an overview containing all the pressure values is generated. You can use this as documentary proof and for archiving purposes.



Make the most of it – make your day-to-day operations more effective, more ergonomic and more innovative

- Get an overview of your tool data
- Plan your maintenance schedule
- Minimise your downtimes
- Increase availability and service life with regular maintenance and inspections
- Helps you organise your work
- Create projects based on installation and building plans
- Document and archive every single crimp in one report
- Proof of your daily activities



Reads out all tool data, so you can check the tool status. i-press® also gives you proof of quality assessment in the form of a project report. i-press® is a Desktop application which you can download free-of-charge from the Klauke website.

The new software can be found at www.klauke.com/de/support/download/connectivity-werkzeugdaten-auslesen/



Crimping

Battery powered hydraulic crimping tools

EK 35/4 Battery powered hydraulic crimping tool 6 - 150 mm²

**NEXT
GENERATION**



- ▶ Large cross section range up to 150 mm²
- ▶ Slim crimping head - ideal when space is critical
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head, flip top style, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Simple and safe: Automatic retraction when operation is complete
- Effortless working thanks to low weight
- LED for work area illumination
- Always ready-to-use thanks to battery charge and service display

Suitable for

- 4-series interchangeable dies, narrow crimping









































**K4
SERIE**

Technical data	
Crimping force	35 kN
Stroke / opening width	9 mm
Crimping range	6 - 150 mm ²
Crimping cycle	3 s to 4 s (depending on crimp cross-section)
Charging time	15 min.
Weight incl. battery	2.4 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic crimping tool 6 - 150 mm ²	EK354CFB	EK354CFM	
Scope of supply			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case	KK50NG	KK50NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483
Variants			Page
L-BOXX with battery powered crimping tool EK354CFB, 6 - 150 mm ²	LBOXXEK354CFB		203
L-BOXX with battery powered crimping tool EK354CFM, 6 - 150 mm ²		LBOXXEK354CFM	203

Available dies for Series 4 for EK 35/4

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors blue connection for compacted conductors acc. to DIN EN 60228		6 - 150		314
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 150		314
Insulated cable lugs and compression joints, standard type, insulated pin terminals		10 - 70		314
Tubular cable lugs and connectors for fine stranded conductors		10 - 35		315
Tubular cable lugs and connectors for solid conductors		1.5 - 16		315
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		0.5 - 2.5		315
Stainless steel tubular cable lugs and connectors		4 - 16		315
Nickel tubular cable lugs and connectors		0.5 - 2.5		315
Nickel tubular cable lugs and connectors		4 - 16		315
Copper compression cable lugs and connectors to DIN				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) acc. to DIN		6 - 120		316
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		6 - 35		316
Insulated solderless terminals and connectors		10 - 16		316
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		10 sm - 150 se / 120 sm		317
Aluminium compression cable lugs and connectors acc. to DIN				
Aluminium compression cable lugs and connectors to DIN		10 - 70 rm/se, 16 - 95 re/se		317
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies HA4, copper side of aluminum/copper compression cable lugs and connectors: crimping dies HD4		10 - 70 rm/se, 16 - 95 re/se		317
Clamps				
Clamps, C-type		4 - 35		317
Cable end-sleeves				
Cable end-sleeves		10 - 50		317
Twin cable end-sleeves		2 x 4 - 2 x 16		318
Twin cable end-sleeves for fine stranded conductors		2 x 4 - 2 x 16		318



Crimping

Battery powered hydraulic crimping tools

EK 50/5 Battery powered hydraulic crimping tool 6 - 240 mm²

**NEXT
GENERATION**



- ▶ Very large crimping range to 240 mm² (tubular cable lugs only)
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head, flip top style, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working thanks to low weight
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Always ready-to-use thanks to battery charge and service display

Suitable for

- 5-series interchangeable dies, narrow crimping





























**K5
SERIE**

Technical data	
Crimping force	50 kN
Stroke / opening width	12 mm
Crimping range	6 - 240 mm ²
Crimping cycle	4 s to 5 s (depending on crimp cross-section)
Charging time	15 min.
Weight incl. battery	2.4 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic crimping tool 6 - 240 mm ²	EK505CFB	EK505CFM	
Scope of supply			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case	KK50NG	KK50NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483
Variants			Page
L-BOXX with battery powered crimping tool EK505CFB, 6-240 mm ²	LBOXXEK505CFB		203
L-BOXX with battery powered crimping tool EK505CFM, 6-240 mm ²		LBOXXEK505CFM	203

Available dies for Series 5 for EK 50/5

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors blue connection for compacted conductors acc. to DIN EN 60228		6 - 185		319
Tubular cable lugs and connectors, Cu, standard type		6 - 240		319
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 95		319
Tubular cable lugs and connectors for fine stranded conductors		10 - 50		320
Compression cable lugs and connectors acc. to DIN - Cu				
Cooper compression cable lugs (DIN 46235) and connectors (DIN 46267), part 1) Cu		6 - 185		320
Terminals, connectors and pin terminals acc. to DIN - Cu				
Solderless terminals (DIN 46234) and pin terminals (DIN 46230)		10 - 50		320
Sleeves for compacted conductors and sector shaped conductors, Cu				
Pre-rounding crimping dies for Al and Cu sector shaped conductors		10 sm - 300 se / 240 sm		321
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10-150 rm/sm, 16-185 re/se		321
Compression joints for full tension connections of Aldrey cables acc. to DIN EN 50182		25 - 95		321
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10-150 rm/sm, 16-185 re/se		321
Clamps				
Clamps, C-type		16 - 35		321
Cable end-sleeves				
Cable end-sleeves		10 - 95		322
Twin cable end-sleeves		2 x 4 - 2 x 16		322



Crimping

Battery powered hydraulic crimping tools

EK 50/18 Battery powered hydraulic crimping tool 6 - 240 mm²

**NEXT
GENERATION**



- ▶ For dies acc. to DIN 48083, sheet 1
- ▶ Fast crimp cycles due to Automatic Retraction Stop (ARS)
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- All data can be easily read via Bluetooth
- Choose your battery system: Bosch or Makita
- Open head, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working thanks to low weight
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display

Suitable for

- 18-series interchangeable dies, narrow crimping







































**K18
SERIE**

Technical data			
Crimping force	50 kN		
Stroke / opening width	17 mm		
Crimping range	6 - 240 mm ²		
Crimping cycle	5 s to 6 s (depending on cross-section)		
Charging time	15 min.		
Weight incl. battery	2.8 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic crimping tool 6 - 240 mm ²	EK5018CFB	EK5018CFM	
Scope of supply			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case	KK50NG	KK50NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483
Variants			Page
L-BOXX with battery powered crimping tool EK5018CFB, 6 - 240 mm ²	LBOXXEK5018CFB		203
L-BOXX with battery powered crimping tool EK5018CFM, 6 - 240 mm ²		LBOXXEK5018CFM	203

Available dies for Series 18 for EK 50/18

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs, standard type, tubular cable lugs for switch-gear connections		6 - 240		323
Connectors, standard type		6 - 95		323
Insulated tubular cable lugs and connectors, standard type, insulated pin terminals		10 - 95		323
Tubular cable lugs and connectors for fine stranded conductors		10 - 50		323
Tubular cable lugs and connectors for solid conductors		1.5 - 16		324
Copper compression cable lugs and connectors to DIN				
Compression cable lugs (DIN 46235)		6 - 185		324
Connectors DIN 46267		6 - 70		324
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		324
Insulated solderless terminals and connectors		10 - 50		324
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		10 sm - 300 se / 240 sm		325
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10-185 rm/sm, 16 - 240 re/se		325
Aluminium connectors		6 - 70		325
Compression joints for full-tension connections of Aldrey-conductors DIN EN 50182		25 - 95		325
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies A, copper side of aluminum/copper compression cable lugs and connectors: crimping dies D		10-185 rm/sm, 16 - 240 re/se		325
Clamps				
Clamps, C-type		4 - 50		325
Cable end-sleeves				
Cable end-sleeves		10 - 95		326
Twin cable end-sleeves		2 x 4 - 2 x 16		326
Twin cable end-sleeves, trapezoidal, for fine stranded conductors		2 x 4 - 2 x 16		326
Cutting die				
for cutting area		18 mm dia.		392



Crimping

Battery powered hydraulic crimping tools

EKM 60/22 Battery powered hydraulic crimping tool 6 - 300 mm²

**NEXT
GENERATION**



- ▶ Large crimping range up to 300 mm²
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head, flip top style, rotatable
- Quality assurance via visual and audible signals in case of error
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display

Suitable for

- 22-series interchangeable dies, narrow crimping















































Technical data	
Crimping force	60 kN
Hub	17.5 mm
Crimping range	6 - 300 mm ²
Crimping cycle	2 s (bei ARS) und 5 s (depending on crimp cross-section)
Charging time	15 min.
Weight incl. battery	3.0 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic crimping tool 6 - 300 mm ²	EKM6022CFB	EKM6022CFM	
Scope of supply			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Plastic case	KK50NG		
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case		KK50L	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Variants			Page
L-BOXX with battery powered crimping tool EKM6022CFB, 6 - 300 mm ²	LBOXXEKM6022CFB		203
L-BOXX with battery powered crimping tool EKM6022CFM, 6 - 300 mm ²		LBOXXEKM6022CFM	203

Available dies for Series 22 for EKM 60/22

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, blue connection® for compacted conductors acc. to DIN EN 60228 Class 2		6 - 300		328
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 300		327
Insulated cable lugs and compression joints, standard type, Insulated pin terminals		10 - 150		327
Tubular cable lugs and connectors for fine stranded conductors		10 - 70		328
Tubular cable lugs and connectors for solid conductors		1.5 - 16		328
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		10 - 50		328
Nickel tubular cable lugs and connectors		10 - 50		328
Copper compression cable lugs and connectors to DIN				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) acc. to DIN		6 - 300		329
Double compression cable lugs		2 x 50 - 2 x 70		329
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		329
Insulated solderless terminals		10 - 70		329
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		10 sm - 300 se / 300 sm		330
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10 - 300		330
Compression joints connections for Aldrey-conductors DIN EN 50182, Al-conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		330
Compression joints DIN 48085, part 3 for aluminium/steel conductors DIN EN 50182, aluminium crimping		25/4 - 120/20		331
Compression joints DIN 48085, part 3 for aluminium/steel conductors DIN EN 50182, steel crimping		25/4 - 120/20		331
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies A22, copper side of aluminum/copper compression cable lugs and connectors: crimping dies D22		10 - 300		330
Clamps				
Clamps, C-type		4 - 70		331
Clamps, H-type		70		331
Cable end-sleeves				
Twin cable end-sleeves		2 x 4 - 2 x 16		332
Cable end-sleeves, trapezoidal, for fine stranded conductors		10 - 240		332
Twin cable end-sleeves, trapezoidal, for fine stranded conductors		2 x 4 - 2 x 16		332

EK 60/22 Battery powered hydraulic crimping tool 6 - 300 mm²

**NEXT
GENERATION**



- ▶ Large crimping range up to 300 mm²
- ▶ Fast crimp cycles due to Automatic Retraction Stop (ARS)
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head, flip top style, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display

Suitable for

- 22-series interchangeable dies, narrow crimping















































**K22
SERIE**

Technical data	
Crimping force	60 kN
Hub	17 mm
Crimping range	6 - 300 mm ²
Crimping cycle	3 s to 5 s (depending on crimp cross-section)
Charging time	45 min.
Weight incl. battery	4.4 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic crimping tool 6 - 300 mm ²	EK6022CFB	EK6022CFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case	KK120NG	KK120NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Item		Part No.	Page
EK 60/22 with crimping die set D 22 from 16 - 240 mm ²		EK6022CFMSETD	
EK 60/22 with crimping die set R 22 from 16 - 240 mm ²		EK6022CFMSETR	

Available dies for Series 22 for EK 60/22

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, blue connection® for compacted conductors acc. to DIN EN 60228 Class 2		6 - 300		328
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 300		327
Insulated cable lugs and compression joints, standard type, Insulated pin terminals		10 - 150		327
Tubular cable lugs and connectors for fine stranded conductors		10 - 70		328
Tubular cable lugs and connectors for solid conductors		1.5 - 16		328
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		10 - 50		328
Nickel tubular cable lugs and connectors		10 - 50		328
Copper compression cable lugs and connectors to DIN				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) acc. to DIN		6 - 300		329
Double compression cable lugs		2 x 50 - 2 x 70		329
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		329
Insulated solderless terminals		10 - 70		329
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		10 sm - 300 se / 300 sm		330
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10 - 300		330
Compression joints connections for Aldrey-conductors DIN EN 50182, Al-conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		330
Compression joints DIN 48085, part 3 for aluminium/steel conductors DIN EN 50182, aluminium crimping		25/4 - 120/20		331
Compression joints DIN 48085, part 3 for aluminium/steel conductors DIN EN 50182, steel crimping		25/4 - 120/20		331
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies A22, copper side of aluminum/copper compression cable lugs and connectors: crimping dies D22		10 - 300		330
Clamps				
Clamps, C-type		4 - 70		331
Clamps, H-type		70		331
Cable end-sleeves				
Twin cable end-sleeves		2 x 4 - 2 x 16		332
Cable end-sleeves, trapezoidal, for fine stranded conductors		10 - 240		332
Twin cable end-sleeves, trapezoidal, for fine stranded conductors		2 x 4 - 2 x 16		332

EK 60 VP Battery powered hydraulic crimping tool 10 - 240 mm²

**NEXT
GENERATION**



- ▶ Crimps optimised at all times due to the patented centring system
- ▶ Fast crimp cycles due to Automatic Retraction Stop (ARS)
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Quad-point indent crimping feature with patented centring system, no dies required
- Open head, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Always ready-to-use thanks to battery charge and service display

Technical data

Crimping force	55 kN
Crimping range	10 - 240 mm ²
Crimping cycle	3 s to 6 s (depending on crimp cross-section)
Charging time	45 min.
Weight incl. battery	5.0 kg
Ambient temperature	-10 °C up to +40 °C

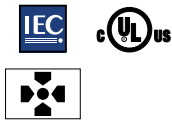
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic crimping tool 10 - 240 mm ²	EK60VPCFB	EK60VPCFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case	KK120NG	KK120NG	
Accessories			Page
Gauge and 10 Test cylinder	TS10B	TS10B	



Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs, standard type, tubular cable lugs for switchgear connections		10-240	
Connectors, standard type		10-120	
Tubular cable lugs for fine stranded conductors		10-240	
Connectors for fine stranded conductors		10-95	

EK 60 VP/FT Battery powered hydraulic crimping tool 16 - 300 mm²

**NEXT
GENERATION**







- ▶ Suitable for crimping tubular cable lugs and connectors „standard type“ and fine and superfine stranded conductors to 300 mm²
- ▶ Fast crimp cycles due to Automatic Retraction Stop (ARS)
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Quad-point indent crimping feature with patented centring system, no dies required
- Closed head with bolt interlock, rotatable, flip top style
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display

Technical data	
Crimping force	55 kN
Crimping range	16 - 300 mm ²
Crimping cycle	3 s to 6 s (depending on crimp cross-section)
Charging time	45 min.
Weight incl. battery	5.1 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic crimping tool 16 - 300 mm ²	EK60VPFTCFB	EK60VPFTCFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case	KK120NG	KK120NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Tubular cable lugs and connectors - Cu			
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		16-300	
Tubular cable lugs and connectors for fine stranded conductors		16-300	



Crimping

Battery powered hydraulic crimping tools

EKM 60 ID Battery powered hydraulic crimping tool 10 - 240 mm²

**NEXT
GENERATION**



- ▶ Extra large crimping area due to innovative 2-stage telescopic cylinder
- ▶ Indent crimping - no changing of dies required
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- With innovative 2-stage telescopic cylinder
- Closed head, flip top style, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Always ready-to-use thanks to battery charge and service display

Suitable for

- Very well suited for compacted conductors
- Especially for fine strand conductors to DIN VDE 60228
- Certified from 16 mm² onwards



Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, Tubular cable lugs for switch gear connections		10 - 240	
Tubular cable lugs and connectors for fine stranded conductors		10 - 240	
Terminals, connectors and pin terminals acc. to DIN			
Solderless terminals (DIN 46234) connectors and pin terminals (DIN 46230, DIN 46341)		10 - 240	
Aluminum compression cable lugs and connectors			
Aluminum compression cable lugs and connectors acc. to DIN		50 - 240	
Compression joints for full tension connections of Aldrey conductors according to DIN EN 50182		50 - 185	
Compression joints acc. to DIN 48085, part 3 for Al/St-cable acc. to DIN EN 50182		50 - 240	
Aluminum/copper compression cable lugs and connectors			
Aluminum/copper compression cable lugs and connectors		50 - 240	

Technical data	
Crimping force	30 - 60 kN
Stroke / opening width	40.5 mm
Crimping range Cu	10 - 240 mm ²
Crimping range Al	50 - 240 mm ²
Crimping cycle	2 s (for ARS) to 7 s (depending on cross-section)
Charging time	15 min.
Weight incl. battery	2.5 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic crimping tool 10 - 240 mm ²	EKM60IDCFB	EKM60IDCFM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	486
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1 483
Makita quick-charger for 18 V Li-Ion battery		LGL1 486
Plastic case	KK50NG	KK50NG
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40 484
Variants		
L-BOXX with battery powered crimping tool EKM60IDCFB, 10 - 240 mm ²	LBOXXEKM60IDCFB	203
L-BOXX with battery powered crimping tool EKM60IDCFM, 10 - 240 mm ²		LBOXXEKM60IDCFM 203

EK 120 ID Battery powered hydraulic crimping tool 35 - 500 mm²

**NEXT
GENERATION**



- ▶ For superfine-stranded conductors to 500 mm²
- ▶ Indent crimping, no dies required
- ▶ All tool data in view thanks to display and i-press® app







Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head, flip top style, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display

Technical data

Crimping force	108 kN
Stroke / opening width	52 mm
Crimping range	35 - 500 mm ²
Crimping cycle	10 s to 11 s (depending on crimp cross-section)
Charging time	45 min.
Weight incl. battery	7.0 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic crimping tool 35 - 500 mm ²	EK120IDCFB	EK120IDCFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case	KK120NG	KK120NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, Tubular cable lugs for switch gear connections		70 - 185	
Tubular cable lugs and connectors for fine stranded conductors		70 - 240	
Terminals, connectors and pin terminals acc. to DIN			
Solderless terminals (DIN 46234) connectors and pin terminals (DIN 46230, DIN 46341)		95 - 500	



EK 120/32 Battery powered hydraulic crimping tool 16 - 400 mm²

**NEXT
GENERATION**



- ▶ Very large crimping range up to 400 mm²
- ▶ Up to 60% fewer crimps thanks to wide crimping in comparison to 6 t tools
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display

Suitable for

- 13-series interchangeable dies, wide crimping



**K13
SERIE**





































Technical data			
Crimping force	120 kN		
Stroke / opening width	32 mm		
Crimping range	16 - 400 mm ²		
Crimping cycle	7 s to 8 s (depending on crimp cross-section)		
Charging time	45 min.		
Weight incl. battery	6.8 kg		
Ambient temperature	-10° C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic crimping tool 16 - 400 mm ²	EK12032CFB	EK12032CFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion			RAL40 484
Makita quick-charger for 18 V Li-Ion battery			LGL1 486
Plastic case	KK120NG	KK120NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion			RAL40 484

Available dies for Series 13 for EK 120/32

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		333
Butt connectors, standard type		16 - 185		333
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		333
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		334

See next page

Refer to the limitations when crimping connectors in the technical appendix.				
Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		10 - 50		334
Tubular cable lugs and connectors – VA		70 - 95		334
Tubular cable lugs and connectors - Ni		10 - 50		334
Tubular cable lugs and connectors - Ni		70 - 95		334
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN46230) and connectors (DIN 46267, part 1) Cu		10 - 300		334
Compression joints DIN 46267 part 1		10 - 150		334
Double compression cable lugs		2 x 50 - 2 x 120		334
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		10 - 150		335
Insulated terminals and pin terminals		10 - 95		335
Sleeves for compacted conductors and sector shaped conductors, Cu				
Pre-rounding crimping dies for Al and Cu sector shaped conductors		10 sm - 300 se / 300 sm		335
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10-300 rm/sm, 16 - 300 re/se		336
Compression joints for full tension connections of Aldrey cables acc. to DIN EN 50182, Al conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		336
Compression joints acc. to DIN 45085, part 3 for Al-steel cable acc. to DIN EN 50182, aluminum crimping		4-20 (St) - 25-120 (Al)		336
Compression joints acc. to DIN 48085, part 3 for Al-steel cables acc. to DIN EN 50182, steel crimping		4-20 (St) - 25-120 (Al)		336
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10-300 rm/sm, 16 - 300 re/se		336
Clamps				
Clamps, C-type		10 - 70		337
Clamps, H-type		70 - 120		337
Cable end-sleeves				
Cable end-sleeves		25 - 240		337

EK 120/42 Battery powered hydraulic crimping tool 16 - 400 mm²

**NEXT
GENERATION**



- ▶ C-head with very wide crimping range to 400 mm²
- ▶ Up to 60% fewer crimps thanks to wide crimping in comparison to 6 t tools
- ▶ Easy handling by optimum weight distribution
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display

Suitable for

- 13-series interchangeable dies, wide crimping











































**K13
SERIE**

Technical data	
Crimping force	120 kN
Stroke / opening width	42 mm
Crimping range	16 - 400 mm ²
Crimping cycle	8 s to 9 s (depending on crimp cross-section)
Charging time	45 min.
Weight incl. battery	7.1 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic crimping tool 16 - 400 mm ²	EK12042CFB	EK12042CFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case	KK120NG	KK120NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484

Available dies for Series 13 for EK 120/42

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		333
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		333
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		334
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		10 - 50		334
Tubular cable lugs and connectors – VA		70 - 95		334
Tubular cable lugs and connectors - Ni		10 - 50		334
Tubular cable lugs and connectors - Ni		70 - 95		334
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		10 - 300		334
Double compression cable lugs		2 x 50 - 2 x 120		334
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		10 - 150		335
Insulated terminals and pin terminals		10 - 95		335
Sleeves for compacted conductors and sector shaped conductors, Cu				
Pre-rounding crimping dies for Al and Cu sector shaped conductors		10 sm - 300 se / 300 sm		335
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10-300 rm/sm, 16 - 300 re/se		336
Compression points for full tension connections of Aldrey cables acc. to DIN EN 50182, Al conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		336
Compression joints acc. to DIN 48085, part 3 for Al-steel cables acc. to DIN EN 50182, aluminum crimping		4-20 (St) - 25-120 (Al)		336
Compression joints acc. to DIN 45085, part 3 for Al-steel cables acc. to DIN EN 50182, steel crimping		4-20 (St) - 25-120 (Al)		336
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10-300 rm/sm, 16 - 300 re/se		336
Clamps				
Clamps, C-type		10 - 70		337
Clamps, H-type		70 - 120		337
Cable end-sleeves				
Cable end-sleeves		25 - 240		337

EK 120 U Battery powered hydraulic crimping tool 16 - 400 mm²

**NEXT
GENERATION**



- ▶ H-head for deep groove crimps
- ▶ Up to 60% fewer crimps thanks to wide crimping in comparison to 6 t tools
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display

Suitable for









































- 13-series interchangeable dies, wide crimping

**K13
SERIE**

IEC

Technical data			
Crimping force	120 kN		
Stroke / opening width	20 mm		
Crimping range	16 - 400 mm ²		
Crimping cycle	7 s to 8 s (depending on crimp cross-section)		
Charging time	45 min.		
Weight incl. battery	6.2 kg		
Ambient temperature	-10° C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic crimping tool 16 - 400 mm ²	EK120UCFB	EK120UCFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case	KK120NG	KK120NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484

Available dies for Series 13 for EK 120 U

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		333
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		333
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		334
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		10 - 50		334
Tubular cable lugs and connectors – VA		70 - 95		334
Tubular cable lugs and connectors - Ni		10 - 50		334
Tubular cable lugs and connectors - Ni		70 - 95		334
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		10 - 300		334
Double compression cable lugs		2 x 50 - 2 x 120		334
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		10 - 150		335
Insulated terminals and pin terminals		10 - 95		335
Sleeves for compacted conductors and sector shaped conductors, Cu				
Pre-rounding crimping dies for Al and Cu sector shaped conductors		10 sm - 300 se / 300 sm		335
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10-300 rm/sm, 16 - 300 re/se		336
Compression points for full tension connections of Aldrey cables acc. to DIN EN 50182, Al conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		336
Compression joints acc. to DIN 48085, part 3 for Al-steel cables acc. to DIN EN 50182, aluminum crimping		4-20 (St) - 25-120 (Al)		336
Compression joints acc. to DIN 45085, part 3 for Al-steel cables acc. to DIN EN 50182, steel crimping		4-20 (St) - 25-120 (Al)		336
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10-300 rm/sm, 16 - 300 re/se		336
Clamps				
Clamps, C-type		10 - 70		337
Clamps, H-type		70 - 120		337
Cable end-sleeves				
Cable end-sleeves		25 - 240		337



Crimping

Battery powered hydraulic crimping tools

EK 135 FT Battery powered hydraulic crimping tool 10 - 630 mm²

**NEXT
GENERATION**



- ▶ Very large crimping range to 630 mm²
- ▶ Very powerful with a crimping force of 13.5 t
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display

Suitable for









































- 13-series interchangeable dies, wide crimping
- 15-series interchangeable dies, wide crimping



Technical data	
Crimping force	135 kN
Stroke / opening width	50.8 mm
Crimping range	10 - 630 mm ²
Crimping cycle	ca. 10 s to 11 s (depending on cross-section)
Charging time	45 min.
Weight incl. battery	10.2 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic crimping tool 10 - 630 mm ²	EK135FTCFB	EK135FTCFM	
Scope of supply			Page
Adapter for crimping dies series 13	UA15T	UA15T	
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case	KK135FTNG	KK135FTNG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484

Available dies for Series 13 for EK 135 FT

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		333
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		333
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		334
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		10 - 50		334
Tubular cable lugs and connectors – VA		70 - 95		334
Tubular cable lugs and connectors - Ni		10 - 50		334
Tubular cable lugs and connectors - Ni		70 - 95		334
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		10 - 300		334
Double compression cable lugs		2 x 50 - 2 x 120		334
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		10 - 150		335
Insulated terminals and pin terminals		10 - 95		335
Sleeves for compacted conductors and sector shaped conductors, Cu				
Pre-rounding crimping dies for Al and Cu sector shaped conductors		10 sm - 300 se / 300 sm		335
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10-300 rm/sm, 16 - 300 re/se		336
Compression points for full tension connections of Aldrey cables acc. to DIN EN 50182, Al conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		336
Compression joints acc. to DIN 48085, part 3 for Al-steel cables acc. to DIN EN 50182, aluminum crimping		4-20 (St) - 25-120 (Al)		336
Compression joints acc. to DIN 45085, part 3 for Al-steel cables acc. to DIN EN 50182, steel crimping		4-20 (St) - 25-120 (Al)		336
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10-300 rm/sm, 16 - 300 re/se		336
Clamps				
Clamps, C-type		10 - 70		337
Clamps, H-type		70 - 120		337
Cable end-sleeves				
Cable end-sleeves		25 - 240		337







See next page



Crimping

Battery powered hydraulic crimping tools

Available dies for Series 15 for EK 135 FT

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		400 - 625		338
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		400 - 500		338
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		400 - 500		338



EASY TO HANDLE - HAND-OPERATED HYDRAULIC CRIMPING TOOLS

2

Klauke tools work for you. The 2-stage hydraulic system ensures automatic retraction after crimping. Rotating heads come into their own even in confined areas and support you up to a cross-sectional range of 400 mm². Aluminium makes the tool lighter and the work easier. The bolt interlock makes the device safe when not in use. You save energy and time. All you need to do yourself is crimp.



► Convenient to use

Several crimps in succession are tiring. And so for our hand-operated hydraulic tools, we produced the housing and pump lever from aluminium to achieve a low weight. The pump lever is in exactly the correct position, and so the pump movement requires only a small space. Work better with the convenience of Klauke.

- Large crimping range up to 400 mm²
- Ergonomic design for effortless operations
- 2-stage hydraulic system with fast feed and power stroke
- Simple and reliable due to automatic retraction after every crimping operation
- Low weight thanks to the aluminium pump lever and housing

► Adapts

All hand-operated hydraulic crimping tools have crimping heads that rotate through 360°. You can work even in confined areas with flexible settings.

- 360° rotating crimping heads for safe operations in confined spaces
- Well suited for installing cable joints underground or in panel building

► Save yourself the return stroke

Your effort goes only into the crimping process. When the crimping process is complete, the crimping jaws retract into the home position via the automatic retraction function.



Crimping

Hand-operated hydraulic crimping tools

HK 60/18 Hand-operated hydraulic crimping tool 6 - 240 mm²



- ▶ For standardised crimping dies to DIN 48083
- ▶ Effortless operations thanks to low weight

Characteristics

- Closed head, flip top style, rotatable
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete





































Suitable for

- 18-series interchangeable dies, narrow crimping

Technical data	
Crimping force	60 kN
Stroke	14 mm
Crimping range	6 - 240 mm ²
Length	470 mm
Weight	3.0 kg
Ambient temperature	-20 up to +40 °C
Item	Part No.
Hand-operated hydraulic crimping tool 6 - 240 mm ²	HK6018
Scope of supply	Part No.
Steel carrying case	MK6018

Available dies for Series 18 for HK 60/18

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs, standard type, tubular cable lugs for switchgear connections		6 - 240		323
Connectors, standard type		6 - 95		323
Insulated tubular cable lugs and connectors, standard type, insulated pin terminals		10 - 95		323
Tubular cable lugs and connectors for fine stranded conductors		10 - 50		323
Tubular cable lugs and connectors for solid conductors		1.5 - 16		324
Copper compression cable lugs and connectors to DIN				
Compression cable lugs (DIN 46235)		6 - 185		324
Connectors DIN 46267		6 - 70		324
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		324
Insulated solderless terminals and connectors		10 - 50		324
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		10 sm - 300 se / 240 sm		325
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10-185 rm/sm, 16 - 240 re/se		325
Aluminium connectors		10 - 70		325
Compression joints for full-tension connections of Aldrey-conductors DIN EN 50182		25 - 95		325
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies A, copper side of aluminum/copper compression cable lugs and connectors: crimping dies D		10-185 rm/sm, 16 - 240 re/se		325
Clamps				
Clamps, C-type		4 - 50		325
Cable end-sleeves				
Cable end-sleeves		10 - 95		326
Twin cable end-sleeves		2 x 4 - 2 x 16		326
Twin cable end-sleeves, trapezoidal, for fine stranded conductors		2 x 4 - 2 x 16		326
Cutting die				
for cutting area		18 mm dia.		392



Crimping

Hand-operated hydraulic crimping tools

HK 60/22 Hand-operated hydraulic crimping tool 6 - 300 mm²



- ▶ Large crimping range up to 300 mm²
- ▶ Slim crimping head - ideal when space is critical

Characteristics

- Closed head, flip top style, rotatable
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete













































Suitable for

- 22-series interchangeable dies, narrow crimping

Technical data	
Crimping force	60 kN
Stroke	17 mm
Crimping range	6 - 300 mm ²
Length	460 mm
Weight	3.3 kg
Ambient temperature	-20 °C up to +40 °C
Item	Part No.
Hand-operated hydraulic crimping tool 6 - 300 mm ²	HK6022
Scope of supply	Part No.
Steel carrying case	MK6022
Variants	Part No.
HK 60/22 with crimping die set R 22 from 16 - 240 mm ²	HK6022SETR
HK 60/22 with crimping die set D 22 from 16 - 240 mm ²	HK6022SETD

Available dies for Series 22 for HK 60/22

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, blue connection® for compacted conductors acc. to DIN EN 60228 Class 2		6 - 300		328
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 300		327
Insulated cable lugs and compression joints, standard type, Insulated pin terminals		10 - 150		327
Tubular cable lugs and connectors for fine stranded conductors		10 - 70		328
Tubular cable lugs and connectors for solid conductors		1.5 - 16		328
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		10 - 50		328
Nickel tubular cable lugs and connectors		10 - 50		328
Copper compression cable lugs and connectors to DIN				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) acc. to DIN		6 - 300		329
Double compression cable lugs		2 x 50 - 2 x 70		329
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		329
Insulated solderless terminals		10 - 70		329
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		10 sm - 300 se / 300 sm		330
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10 - 300		330
Compression joints connections for Aldrey-conductors DIN EN 50182, Al-conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		330
Compression joints DIN 48085, part 3 for aluminium/steel conductors DIN EN 50182, aluminium crimping		25/4 - 120/20		331
Compression joints DIN 48085, part 3 for aluminium/steel conductors DIN EN 50182, steel crimping		25/4 - 120/20		331
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies A22, copper side of aluminum/copper compression cable lugs and connectors: crimping dies D22		10 - 300		330
Clamps				
Clamps, C-type		4 - 70		331
Clamps, H-type		70		331
Cable end-sleeves				
Twin cable end-sleeves		2 x 4 - 2 x 16		332
Cable end-sleeves, trapezoidal, for fine stranded conductors		10 - 240		332
Twin cable end-sleeves, trapezoidal, for fine stranded conductors		2 x 4 - 2 x 16		332



Crimping

Hand-operated hydraulic crimping tools

HK 60 VP Hand-operated hydraulic crimping head 10 - 240 mm²



- ▶ Suitable for crimping tubular cable lugs and connectors “standard type“ and fine and superfine stranded conductors up to 240 mm²
- ▶ The patented centring system guarantees optimum crimps every time

Characteristics

- Quad-point indent crimping feature with patented centring system, no dies required
- Open head, rotatable
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete

Technical data

Crimping force	55 kN
Crimping range	10 - 240 mm ²
Length	525 mm
Weight	4.1 kg
Ambient temperature	-20 °C up to +40 °C

Item	Part No.
Hand-operated hydraulic crimping tool 10 - 240 mm ²	HK60VP
Scope of supply	Part No.
Steel carrying case	MK60VP
Gauge and 10 test cylinder	TS10B
Accessories	Part No.
Gauge and 10 test cylinder	TS10B



Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs, standard type, tubular cable lugs for switchgear connections		10 - 240	
Connectors, standard type		10 - 120	
Tubular cable lugs for fine stranded conductors		10 - 240	
Connectors for fine stranded conductors		10 - 95	

HK 60 VP/FT Hand-operated hydraulic crimping head 16 - 300 mm²



- ▶ Suitable for crimping tubular cable lugs and connectors "standard type" and fine and superfine stranded conductors to 300 mm²
- ▶ The patented centring system guarantees optimum crimps every time
- ▶ Closed crimping head - ideal for utility lines construction

Characteristics

- Quad-point indent crimping feature with patented centring system, no dies required
- Closed head with bolt interlock, rotatable, flip top style
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete

Technical data	
Crimping force	55 kN
Crimping range	16 - 300 mm ²
Length	535 mm
Weight	4.1 kg
Ambient temperature	-20 °C up to +40 °C
Item	Part-No.
Hand-operated hydraulic crimping tool 16 - 300 mm ²	HK60VPFT
Scope of supply	Part-No.
Steel carrying case	MK60VP
Gauge and 10 test cylinder	TS10B
Accessories	Part.-No.
Gauge and 10 test cylinder	TS10B



Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		16 - 300	
Tubular cable lugs and compression joints for fine stranded conductors		16 - 300	



Crimping

Hand-operated hydraulic crimping tools

HK 120/30 Hand-operated hydraulic crimping tool 16 - 400 mm²



- ▶ Very large crimping range to 400 mm²
- ▶ Up to 60% fewer crimps thanks to wide crimping in comparison to 6 t tools

Characteristics

- Open head, rotatable
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete

Suitable for

- 13-series interchangeable dies, wide crimping

Technical data	
Crimping force	120 kN
Stroke	30 mm
Crimping range	16 - 400 mm ²
Length	510 mm
Weight	5.4 kg
Ambient temperature	-20 °C up to +40 °C
Item	Part No.
Hand-operated hydraulic crimping tool 10 - 400 mm ²	HK12030
Scope of supply	Part No.
Steel carrying case	MK12042































Available dies for Series 13 for HK 120/30

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		333
Butt connectors, standard type		16 - 185		333
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		333
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		334
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors - VA		10 - 50		334
Tubular cable lugs and connectors - VA		70 - 95		334
Tubular cable lugs and connectors - Ni		10 - 50		334
Tubular cable lugs and connectors - Ni		70 - 95		334

See next page

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN46230) and connectors (DIN 46267, part 1) Cu		10 - 300		334
Compression joints DIN 46267 part 1		10 - 150		334
Double compression cable lugs		2 x 50 - 2 x 120		334
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		10 - 150		335
Insulated terminals and pin terminals		10 - 95		335
Sleeves for compacted conductors and sector shaped conductors, Cu				
Pre-rounding crimping dies for Al and Cu sector shaped conductors		10 sm - 300 se / 300 sm		335
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10-300 rm/sm, 16 - 300 re/se		336
Compression joints for full tension connections of Aldrey cables acc. to DIN EN 50182, Al conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		336
Compression joints acc. to DIN 45085, part 3 for Al-steel cable acc. to DIN EN 50182, aluminum crimping		4-20 (St) - 25-120 (Al)		336
Compression joints acc. to DIN 48085, part 3 for Al-steel cables acc. to DIN EN 50182, steel crimping		4-20 (St) - 25-120 (Al)		336
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10-300 rm/sm, 16 - 300 re/se		336
Clamps				
Clamps, C-type		10 - 70		337
Clamps, H-type		70 - 120		337
Cable end-sleeves				
Cable end-sleeves		25 - 240		337



Crimping

Hand-operated hydraulic crimping tools

HK 120/42 Hand-operated hydraulic crimping tool 16 - 400 mm²



- ▶ Very large crimping range up to 400 mm²
- ▶ Up to 60% fewer crimps thanks to wide crimping in comparison to 6 t tools
- ▶ C-head with larger 42 mm jaw opening

Characteristics

- Open head, rotatable
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete

Suitable for

- 13-series interchangeable dies, wide crimping



Technical data	
Crimping force	120 kN
Stroke	42 mm
Crimping range	16 - 400 mm ²
Length	560 mm
Weight	5.9 kg
Ambient temperature	-20 °C up to +40 °C
Item	Part No.
Hand-operated hydraulic crimping tool 16 - 400 mm ²	HK12042
Scope of supply	Part No.
Steel carrying case	MK12042





























Available dies for Series 13 for HK 120/42

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		333
Butt connectors, standard type		16 - 185		333
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		333
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		334
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors - VA		10 - 50		334
Tubular cable lugs and connectors - VA		70 - 95		334
Tubular cable lugs and connectors - Ni		10 - 50		334
Tubular cable lugs and connectors - Ni		70 - 95		334

See next page

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN46230) and connectors (DIN 46267, part 1) Cu		10 - 300		334
Compression joints DIN 46267 part 1		10 - 150		334
Double compression cable lugs		2 x 50 - 2 x 120		334
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		10 - 150		335
Insulated terminals and pin terminals		10 - 95		335
Sleeves for compacted conductors and sector shaped conductors, Cu				
Pre-rounding crimping dies for Al and Cu sector shaped conductors		10 sm - 300 se / 300 sm		335
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10-300 rm/sm, 16 - 300 re/se		336
Compression joints for full tension connections of Aldrey cables acc. to DIN EN 50182, Al conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		336
Compression joints acc. to DIN 45085, part 3 for Al-steel cable acc. to DIN EN 50182, aluminum crimping		4-20 (St) - 25-120 (Al)		336
Compression joints acc. to DIN 48085, part 3 for Al-steel cables acc. to DIN EN 50182, steel crimping		4-20 (St) - 25-120 (Al)		336
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10-300 rm/sm, 16 - 300 re/se		336
Clamps				
Clamps, C-type		10 - 70		337
Clamps, H-type		70 - 120		337
Cable end-sleeves				
Cable end-sleeves		25 - 240		337



Crimping

Hand-operated hydraulic crimping tools

HK 120 U Hand-operated hydraulic crimping tool 16 - 400 mm²



- ▶ H-head for deep groove crimps
- ▶ Up to 60% fewer crimps thanks to wide crimping in comparison to 6 t tools

Characteristics

- Closed head, rotatable
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete

Suitable for

- 13-series interchangeable dies, wide crimping

Technical data	
Crimping force	120 kN
Stroke	20 mm
Crimping range	16 - 400 mm ²
Length	540 mm
Weight	5.2 kg
Ambient temperature	-20 °C up to +40 °C
Item	Part No.
Hand-operated hydraulic crimping tool 16 - 400 mm ²	HK120U
Scope of supply	Part No.
Steel carrying case	MK120U































Available dies for Series 13 for HK 120 U

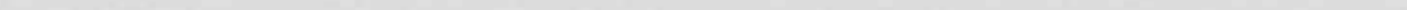
Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		333
Butt connectors, standard type		16 - 185		333
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		333
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		334
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors - VA		10 - 50		334
Tubular cable lugs and connectors - VA		70 - 95		334
Tubular cable lugs and connectors - Ni		10 - 50		334
Tubular cable lugs and connectors - Ni		70 - 95		334

See next page

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN46230) and connectors (DIN 46267, part 1) Cu		10 - 300		334
Compression joints DIN 46267 part 1		10 - 150		334
Double compression cable lugs		2 x 50 - 2 x 120		334
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		10 - 150		335
Insulated terminals and pin terminals		10 - 95		335
Sleeves for compacted conductors and sector shaped conductors, Cu				
Pre-rounding crimping dies for Al and Cu sector shaped conductors		10 sm - 300 se / 300 sm		335
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10-300 rm/sm, 16 - 300 re/se		336
Compression joints for full tension connections of Aldrey cables acc. to DIN EN 50182, Al conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		336
Compression joints acc. to DIN 45085, part 3 for Al-steel cable acc. to DIN EN 50182, aluminum crimping		4-20 (St) - 25-120 (Al)		336
Compression joints acc. to DIN 48085, part 3 for Al-steel cables acc. to DIN EN 50182, steel crimping		4-20 (St) - 25-120 (Al)		336
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10-300 rm/sm, 16 - 300 re/se		336
Clamps				
Clamps, C-type		10 - 70		337
Clamps, H-type		70 - 120		337
Cable end-sleeves				
Cable end-sleeves		25 - 240		337





FLEXIBLE HEADS - HYDRAULIC CRIMPING HEADS AND CRIMPING TOOL SYSTEMS

2

No matter whether continuous operation in the workshop or portable use in the field - Klauke crimping heads and systems provide the right solution each and every time.



► The Klauke system

Full flexibility with the Klauke system - all hydraulic heads and pumps are mutually compatible and your 13, 18 and 22 series crimping dies can also be used in the hydraulic crimping heads.

- Crimping heads for the 13, 18 and 22 series, also for workbench mounting
- Crimping heads with a crimping force of 55 kN to 1000 kN
- Workbench tools BG-tested

► High crimping force for greater width

The crimping heads achieve a crimping force of 55 kN to 1000 kN. Allowing you to process cable lugs of up to 1600 mm².

- Compact design
- Easy handling
- Versatile
- Broadest range of applications



Crimping

Hydraulic crimping heads and crimping systems

PK 18 Hydraulic crimping head 6 - 240 mm²



- ▶ For connecting to hydraulic pumps with 700 bar operating pressure for optimum crimping results
- ▶ Crimping dies are spring-secured

Characteristics

- Open head with quick coupling, 360° rotation when not pressurised

Suitable for

- 18-series interchangeable dies, narrow crimping
- Standardised dies to DIN 48083, sheet 1

Technical data

Crimping force	60 kN
Crimping range	6 - 240 mm ²
Operating pressure	max. 700 bar
Length	310 mm
Weight	3.2 kg

Item	Part No.	
Hydraulic crimping head 6 - 185 mm ²	PK18	
Scope of supply	Part No.	Page
Carrying bag	TT2	194



K18
SERIE

THK 18 Hydraulic crimping tool for workbench mounting 6 - 185 mm²



- ▶ BG-compliant version
- ▶ For connecting to hydraulic pumps with 700 bar operating pressure for optimum crimping results

Characteristics

- Quick coupling
- For workbench mounting

Suitable for

- 18-series interchangeable dies, narrow crimping
- Standardised dies to DIN 48083, sheet 1

Technical data





































Crimping force	60 kN
Crimping range	6 - 185 mm ²
Operating pressure	max. 700 bar
Weight	8.6 kg
Dimensions	H x W x D: 220 x 160 x 120 mm

Item	Part No.
Hydraulic crimping tool for workbench mounting 6 - 185 mm ²	THK18

K18
SERIE

Available dies for Series 18 for PK 18

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 240		323
Connectors, standard type		6 - 95		323
Insulated tubular cable lugs and connectors, standard type, insulated pin terminals		10 - 95		323
Tubular cable lugs and connectors for fine stranded conductors		10 - 50		323
Tubular cable lugs and connectors for solid conductors		1.5 - 16		324
Copper compression cable lugs and connectors to DIN				
Compression cable lugs (DIN 46235)		6 - 185		324
Connectors DIN 46267		6 - 70		324
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		324
Insulated solderless terminals and connectors		10 - 50		324
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		10 sm - 300 se / 240 sm		325
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10-185 rm/sm, 16 - 240 re/se		325
Aluminium connectors		10 - 70		325
Compression joints for full-tension connections of Aldrey-conductors DIN EN 50182		25 - 95		325
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies A, copper side of aluminum/copper compression cable lugs and connectors: crimping dies D		10-185 rm/sm, 16 - 240 re/se		325
Clamps				
Clamps, C-type		4 - 50		325
Cable end-sleeves				
Cable end-sleeves		10 - 95		326
Twin cable end-sleeves		2 x 4 - 2 x 16		326
Twin cable end-sleeves, trapezoidal, for fine stranded conductors		2 x 4 - 2 x 16		326
Cutting die				
for cutting area		18 mm dia.		392



Crimping

Hydraulic crimping heads and crimping systems

PK 22 Hydraulic crimping heads 6 - 300 mm²



K22
SERIE

- ▶ Large crimping range up to 300 mm²
- ▶ Slim crimping head - ideal when space is critical

Characteristics

- Closed head, flip top style, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Suitable for

- 22-series interchangeable dies, narrow crimping

Additional information

- Part Number appendix for W crimping dies (UL-tested) "W"

Technical data		
Crimping force	60 kN	
Stroke / opening width	17 mm	
Crimping range	6 - 300 mm ²	
Operating pressure	max. 700 bar	
Length	305 mm	
Weight	3.0 kg	
Item	Part No.	
Hydraulic crimping head 6 - 300 mm ²	PK22	
Scope of supply	Part No.	Page
Carrying bag	TT2	194

THK 22 Hydraulic crimping tool for workbench mounting 6 - 300 mm²



K22
SERIE

- ▶ Large crimping range up to 300 mm²
- ▶ For connecting to hydraulic pumps with 700 bar operating pressure for optimum crimping results

Characteristics

- Quick coupling
- For workbench mounting
- BG-conformity version













































Suitable for

- 22-series interchangeable dies, narrow crimping

Technical data		
Crimping force	60 kN	
Crimping range	6 - 300 mm ²	
Operating pressure	max. 700 bar	
Weight	8.8 kg	
Dimensions	H x W x D: 220 x 160 x 120 mm	
Item	Part No.	
Hydraulic crimping tool for workbench mounting 6 - 300 mm ²	THK22	

Available dies for Series 22 for PK 22 and THK 22

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, blue connection® for compacted conductors acc. to DIN EN 60228 Class 2		6 - 300		328
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 300		327
Insulated cable lugs and compression joints, standard type, Insulated pin terminals		10 - 150		327
Tubular cable lugs and connectors for fine stranded conductors		10 - 70		328
Tubular cable lugs and connectors for solid conductors		1.5 - 16		328
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		10 - 50		328
Nickel tubular cable lugs and connectors		10 - 50		328
Copper compression cable lugs and connectors to DIN				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) acc. to DIN		6 - 300		329
Double compression cable lugs		2 x 50 - 2 x 70		329
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		329
Insulated solderless terminals		10 - 70		329
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		10 sm - 300 se / 300 sm		330
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10 - 300		330
Compression joints connections for Aldrey-conductors DIN EN 50182, Al-conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		330
Compression joints DIN 48085, part 3 for aluminium/steel conductors DIN EN 50182, aluminium crimping		25/4 - 120/20		331
Compression joints DIN 48085, part 3 for aluminium/steel conductors DIN EN 50182, steel crimping		25/4 - 120/20		331
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies A22, copper side of aluminum/copper compression cable lugs and connectors: crimping dies D22		10 - 300		330
Clamps				
Clamps, C-type		4 - 70		331
Clamps, H-type		70		331
Cable end-sleeves				
Twin cable end-sleeves		2 x 4 - 2 x 16		332
Cable end-sleeves, trapezoidal, for fine stranded conductors		10 - 240		332
Twin cable end-sleeves, trapezoidal, for fine stranded conductors		2 x 4 - 2 x 16		332



Crimping

Hydraulic crimping heads and crimping systems

PK 60 VP Hydraulic crimping head 10 - 240 mm²



- ▶ Suitable for crimping tubular cable lugs and connectors “standard type“ and fine and superfine stranded conductors up to 240 mm²
- ▶ The patented centring system guarantees optimum crimps every time
- ▶ No additional dies required

Characteristics

- Quad-point indent crimping and wide crimping
- Open head with quick coupling, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Technical data		
Crimping force	55 kN	
Crimping range	10 - 240 mm ²	
Operating pressure	max. 700 bar	
Length	305 mm	
Weight	2.8 kg	
Item	Part No.	
Hydraulic crimping head 10 - 240 mm ²	PK60VP	
Scope of supply	Part No.	Page
Carrying bag	TT2	194

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs, standard type, tubular cable lugs for switchgear connections		10 - 240	
Connectors, standard type		10 - 120	
Tubular cable lugs for fine stranded conductors		10 - 240	
Connectors for fine stranded conductors		10 - 95	

PK 60 VP/FT Hydraulic crimping head 16 - 300 mm²



- ▶ Suitable for crimping tubular cable lugs and connectors “standard type“ and fine and superfine stranded conductors to 300 mm²
- ▶ The patented centring system guarantees optimum crimps every time
- ▶ Closed crimping head - ideal for utility lines construction, for example

Characteristics

- Quad-point indent crimping and wide crimping
- Closed head, flip top style, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Technical data		
Crimping force	55 kN	
Crimping range	16 - 300 mm ²	
Operating pressure	max. 700 bar	
Length	315 mm	
Weight	2.8 kg	
Item	Part No.	
Hydraulic crimping head 16 - 300 mm ²	PK60VPFT	
Scope of supply	Part No.	Page
Carrying bag	TT2	194

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		16 - 300	
Tubular cable lugs and connectors for fine stranded conductors		16 - 300	

PK 60 ID Hydraulic crimping head 10 - 240 mm²



- ▶ Extra large crimping area due to innovative 2-stage telescopic cylinders (patent pending)
- ▶ Indent crimping - no changing of dies required

Characteristics

- Closed head, flip top style, rotatable
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Technical data		
Crimping force	30 - 60 kN	
Stroke / opening width	40.5 mm	
Crimping range copper	10 - 240 mm ²	
Crimping range aluminum	50 - 240 mm ²	
Operating pressure	max. 700 bar	
Length	249.5 mm	
Weight	approx. 2.5 kg	
Item	Part No.	
Hydraulic crimping head 10 - 240 mm ²	PK60ID	
Scope of supply	Part No.	Page
Carrying bag	TT2	194

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, Tubular cable lugs for switch gear connections		10 - 240	
Tubular cable lugs and connectors for fine stranded conductors		10 - 240	
Terminals, connectors and pin terminals acc. to DIN			
Solderless terminals (DIN 46234) connectors and pin terminals (DIN 46230, DIN 46341)		10 - 240	
Aluminum compression cable lugs and connectors			
Aluminum compression cable lugs and connectors acc. to DIN		50 - 240	
Compression joints acc. to DIN 48085, part 3 for Al/St-cable acc. to DIN EN 50182		50 - 240	
Compression joints for full tension connections of Aldrey conductors acc. to DIN EN 50182, Al-conductor acc. to DIN EN 50182, 120 - 185 mm ²		50 - 185	
Aluminum/copper compression cable lugs and connectors			
Aluminum/copper compression cable lugs and connectors		50 - 240	



Crimping

Hydraulic crimping heads and crimping systems

PK 120/42 Hydraulic crimping head 10 - 400 mm²



K13
SERIE



- ▶ Large crimping range up to 400 mm²
- ▶ C-head with larger 42 mm jaw opening
- ▶ Up to 60% fewer crimps thanks to wide crimping in comparison to narrow crimping

Characteristics

- Head with quick coupling, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Suitable for

- 13-series interchangeable dies, wide crimping

Technical data		
Crimping force	120 kN	
Stroke / opening width	42 mm	
Crimping range	10 - 400 mm ²	
Operating pressure	max. 700 bar	
Length	335 mm	
Weight	4.5 kg	
Item	Part No.	
Hydraulic crimping head 10 - 400 mm ²	PK12042	
Scope of supply	Part No.	Page
Carrying bag	TT2	194

THK 120 Hydraulic crimping tool for workbench mounting 10 - 400 mm²

K13
SERIE



- ▶ Large crimping range up to 400 mm²
- ▶ For workbench mounting
- ▶ BG-compliant version
- ▶ Up to 60% fewer crimps thanks to wide crimping in comparison to narrow crimping

Characteristics







































- Quick coupling
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Suitable for

- 13-series interchangeable dies, wide crimping

Technical data		
Crimping force	120 kN	
Crimping range	10 - 400 mm ²	
Operating pressure	max. 700 bar	
Weight	12 kg	
Dimensions	H x W x D: 285 x 160 x 110 mm	
Item	Part No.	
Hydraulic crimping tool for workbench mounting 10 - 400 mm ²	THK120	

Available dies for Series 13 for PK 120/42 and THK 120

Refer to the limitations when crimping connectors in the technical appendix.				
Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		333
Butt connectors, standard type		16 - 185		333
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		333
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		334
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		10 - 50		334
Tubular cable lugs and connectors – VA		70 - 95		334
Tubular cable lugs and connectors - Ni		10 - 50		334
Tubular cable lugs and connectors - Ni		70 - 95		334
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN46230) and connectors (DIN 46267, part 1) Cu		10 - 300		334
Compression joints DIN 46267 part 1		10 - 150		334
Double compression cable lugs		2 x 50 - 2 x 120		334
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		10 - 150		335
Insulated terminals and pin terminals		10 - 95		335
Sleeves for compacted conductors and sector shaped conductors, Cu				
Pre-rounding crimping dies for Al and Cu sector shaped conductors		10 sm - 300 se / 300 sm		335
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10-300 rm/sm, 16 - 300 re/se		336
Compression joints for full tension connections of Aldrey cables acc. to DIN EN 50182, Al conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		336
Compression joints acc. to DIN 45085, part 3 for Al-steel cable acc. to DIN EN 50182, aluminum crimping		4-20 (St) - 25-120 (Al)		336
Compression joints acc. to DIN 48085, part 3 for Al-steel cables acc. to DIN EN 50182, steel crimping		4-20 (St) - 25-120 (Al)		336
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10-300 rm/sm, 16 - 300 re/se		336

See next page









Crimping

Hydraulic crimping heads and crimping systems

Available dies for Series 13 for PK 120/42 and THK 120

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Clamps				
Clamps, C-type		10 - 70		337
Clamps, H-type		70 - 120		337
Cable end-sleeves				
Cable end-sleeves		25 - 240		337

PK 120 U Hydraulic crimping head 10 - 400 mm²

- ▶ H-head for deep groove crimps
- ▶ Up to 60% fewer crimps thanks to wide crimping in comparison to narrow crimping

Characteristics

- Head with quick coupling, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Suitable for

- 13-series interchangeable dies, wide crimping











Technical data		
Crimping force	120 kN	
Stroke / opening width	20 mm	
Crimping range	10 - 400 mm ²	
Operating pressure	max. 700 bar	
Length	320 mm	
Weight	3.7 kg	
Item	Part No.	
Hydraulic crimping head 10 - 400 mm ²	PK120U	
Scope of supply	Part No.	Page
Carrying bag	TT2	194







































Available dies for Series 13 for PK 120 U

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		333
Butt connectors, standard type		16 - 185		333
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		333
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		334

See next page

Refer to the limitations when crimping connectors in the technical appendix.				
Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		10 - 50		334
Tubular cable lugs and connectors – VA		70 - 95		334
Tubular cable lugs and connectors - Ni		10 - 50		334
Tubular cable lugs and connectors - Ni		70 - 95		334
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN46230) and connectors (DIN 46267, part 1) Cu		10 - 300		334
Compression joints DIN 46267 part 1		10 - 150		334
Double compression cable lugs		2 x 50 - 2 x 120		334
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		10 - 150		335
Insulated terminals and pin terminals		10 - 95		335
Sleeves for compacted conductors and sector shaped conductors, Cu				
Pre-rounding crimping dies for Al and Cu sector shaped conductors		10 sm - 300 se / 300 sm		335
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10-300 rm/sm, 16 - 300 re/se		336
Compression joints for full tension connections of Aldrey cables acc. to DIN EN 50182, Al conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		336
Compression joints acc. to DIN 45085, part 3 for Al-steel cable acc. to DIN EN 50182, aluminum crimping		4-20 (St) - 25-120 (Al)		336
Compression joints acc. to DIN 48085, part 3 for Al-steel cables acc. to DIN EN 50182, steel crimping		4-20 (St) - 25-120 (Al)		336
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10-300 rm/sm, 16 - 300 re/se		336
Clamps				
Clamps, C-type		10 - 70		337
Clamps, H-type		70 - 120		337
Cable end-sleeves				
Cable end-sleeves		25 - 240		337



Crimping

Hydraulic crimping heads and crimping systems

PK 25/2 Hydraulic crimping head 16 - 625 mm²



- ▶ For dies acc. to DIN 48083, sheet 3
- ▶ Very large crimping range up to 625 mm²
- ▶ For connecting to hydraulic pumps with 700 bar operating pressure for optimum crimping results

Characteristics

- Head with quick coupling, 360° rotation when not pressurised

Suitable for

- 25-series interchangeable dies, wide crimping























Technical data		
Crimping force	250 kN	
Stroke / opening width	20 mm	
Crimping range	16 - 625 mm ²	
Operating pressure	max. 700 bar	
Length	335 mm	
Weight	5.3 kg	
Item	Part No.	
Hydraulic crimping head 16 - 625 mm ²	PK252	
Scope of supply	Part No.	Page
Carrying bag	TT2	194
Accessories	Art-Nr.	Seite
Adapter for crimping dies of the Klauke 13-series	25A13	339



K25
SERIE

Available dies for Series 25 for PK 25/2

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		150 - 400		339
Tubular cable lugs and connectors for fine stranded conductors		185 - 300		339
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		150 - 625		339
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		150 - 240		340
Insulated terminals and pin terminals		120 - 150		340
Sleeves for compacted conductors and sector shaped conductors, Cu				
Pre-rounding crimping dies for Al and Cu sector shaped conductors, 3 and 4 core sector shaped conductors		10 sm - 300 se / 300 sm		340
Compression cable lugs and connectors acc. to DIN - Al				
Compression cable lugs and connectors acc. to DIN - Al		400 - 500		340
Compression joints for full tension connections of Aldrey cables acc. to DIN EN 50182, Al conductors DIN EN 50182, 120 - 300 mm ²		240 - 300		340
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminium/copper compression cable lugs and connectors: crimping dies HA13, copper side of aluminium/copper compression cable lugs and connectors: crimping dies HD13		400 - 500		340
Clamps and screw connectors				
C-clamps		16 - 185		341
H-clamps		95 - 120		341



Crimping

Hydraulic crimping heads and crimping systems

PK 45 Hydraulic crimping head 120 - 1000 mm²



- ▶ Very large crimping range to 1000 mm²
- ▶ Good sturdy construction for safe operations
- ▶ For connecting to hydraulic pumps with 700 bar operating pressure for optimum crimping results

Characteristics









- Head with quick coupling, 360° rotation when not pressurised

Suitable for

- 45-series interchangeable dies, wide crimping

Technical data		
Crimping force	450 kN	
Crimping range	120 - 1000 mm ²	
Operating pressure	max. 700 bar	
Weight	10.3 kg	
Height	265 mm	
Item	Part No.	
Hydraulic crimping head 120 - 1000 mm ²	PK45	
Scope of supply	Part No.	Page
Carrying bag	TT2	194

Available dies for Series 45 for PK 45

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		120 - 1000		342
Compression cable lugs and connectors acc. to DIN - Al				
Compression cable lugs and connectors acc. to DIN - Al		150 - 500		342
Compression joints for full tension connections of Aldrey cables acc. to DIN EN 50182, Al conductors DIN EN 50182, 150 - 300 mm ²		150 - 300		342
Aluminium/copper compression cable lugs and connectors				
Aluminium side of aluminium/copper compression cable lugs and connectors: crimping dies HA45, copper side of aluminium/copper compression cable lugs and connectors: crimping dies HD45		150 - 500		342

PK 1000 Hydraulic 100 t crimping heads up to 1000 mm²



K100
SERIE

- ▶ Single-acting crimping head for connecting to hydraulic pumps with 700 bar operating pressure
- ▶ Compact, simple design
- ▶ Extremely high crimping force

Characteristics

- Nickel-plated version
- Quick coupling

Suitable for



- Interchangeable dies (outer: to IZUMI standard EP-100W, inside: DIN standard or customer request)

Additional information

- Also available in country-specific variants, Part Number appendix "C"

Technical data	
Crimping force	1000 kN
Stroke	25 mm
Crimping range	ACSR: up to 1045/45 (1046-AL1/45-ST1A) mm ²
Crimping Cu	up to 1000 mm ²
Crimping Al	up to 1000 mm ²
Operating pressure	max. 700 bar
Weight	Without dies: 27 kg
Height	Incl. handles: 365 mm
Dimensions	External diameter: 195 mm
Item	Part No.
Hydraulic 100 t crimping head with Cejn coupling	PK1000

Available dies for Series 100 for PK 1000

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper compression cable lugs and connectors acc. to DIN				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1)		625 - 1000		343

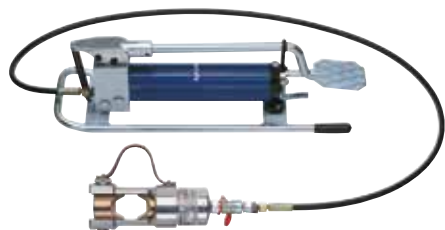


Crimping

Hydraulic crimping heads and crimping systems

HK 25/2 Hydraulic crimping tool with foot pump 16 - 625 mm²

- ▶ Extremely wide cross section range up to 625 mm²
- ▶ Hydraulic system with 250 kN crimping force
- ▶ Foot pump with two-stage hydraulics



Characteristics

- Head with quick coupling, 360° rotation when not pressurised
- Manual retract as required

Suitable for

- 25-series interchangeable dies, wide crimping

Additional information

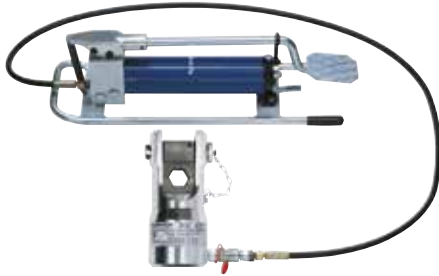
- The wide choice of available crimping dies can be found in chapter “Crimping dies“ under Series 25.

Technical data	
Crimping force	250 kN
Crimping range	16 - 625 mm ²
Operating pressure	max. 700 bar
Weight	17.6 kg



Item	Part No.	
Hydraulic crimping tool with foot pump 16 - 625 mm ²	HK252	
Scope of supply		Page
Hydraulic hose, 2 m	HS22	489
Steel carrying case	MKU	194
Accessories		Page
Hydraulic hose, 3 m	HS23	489
Hydraulic hose, 4 m	HS24	489
Hydraulic hose, 5 m	HS25	489
Hydraulic hose, 6 m	HS26	489
Hydraulic hose, 8 m	HS28	489
Hydraulic hose, 10 m	HS210	489
Adapter for crimping dies of the Klauke 13-series	25A13	339

HK 45 Hydraulic crimping tool with foot pump 120 - 1000 mm²



K45
SERIE

- ▶ Extremely large cross section range up to 1000 mm²
- ▶ Hydraulic system with 450 kN crimping force
- ▶ Foot pump with two-stage hydraulics

Characteristics

- Head with quick coupling
- Manual retract as required
- Hydraulic hose, 2 m

Suitable for

- 45-series interchangeable dies, wide crimping

Additional information

- The wide choice of available crimping dies can be found in chapter "Crimping dies" under Series 45.

Technical data		
Crimping force	450 kN	
Crimping range	120 - 1.000 mm ²	
Operating pressure	max. 700 bar	
Weight	23 kg	
Item	Part No.	
Hydraulic crimping tool with foot pump 120 - 1000 mm ²	HK45	
Scope of supply	Part No.	Page
Hydraulic hose, 2 m	HS22	489
Steel carrying case	MKU	194
Accessories	Part No.	Page
Hydraulic hose, 3 m	HS23	489
Hydraulic hose, 4 m	HS24	489
Hydraulic hose, 5 m	HS25	489
Hydraulic hose, 6 m	HS26	489
Hydraulic hose, 8 m	HS28	489
Hydraulic hose, 10 m	HS210	489

TEN SERIES IN USE - CRIMPING DIES

The Klauke range of crimping dies is unbeatable. We have developed a total of 10 series to suit your requirements. All are set apart by their high durability and highest precision. For optimum crimping results, the crimping surface of the dies are polished. You can count on that: Tools, crimping dies and connection materials from Klauke deliver the perfect electrical connection every time.



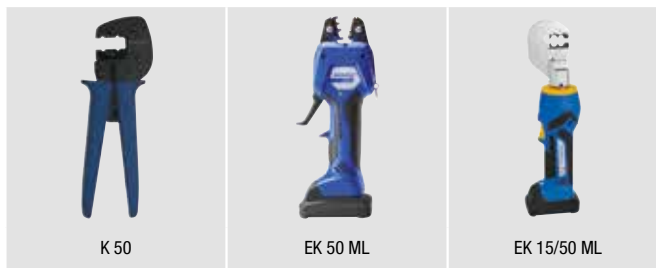
In brief

- ▶ Broad range with 10 different crimping dies series
- ▶ Solutions for every material
- ▶ Polished crimping surfaces for optimum crimping results
- ▶ Quickly find the correct die through coloured coatings

Connection material	K50 SERIE 	K4 SERIE 	K5 SERIE 	K18 SERIE 	K22 SERIE 	K13 SERIE 	K15 SERIE 	K25 SERIE 	K45 SERIE 	K100 SERIE
	-	6-150 mm ²	6-185 mm ²	-	6-300 mm ²	-	-	-	-	-
	0.75-25 mm ²	6-150 mm ²	6-240 mm ²	6-240 mm ²	6-300 mm ²	16-400 mm ²	-	150-400 mm ²	-	-
	-	10-70 mm ²	10-95 mm ²	10-95 mm ²	10-150 mm ²	10-150 mm ²	-	-	-	-
	-	10-35 mm ²	10-50 mm ²	10-50 mm ²	10-70 mm ²	10-150 mm ²	-	185-300 mm ²	-	-
	1.5-10 mm ²	1.5-16 mm ²	-	1.5-16 mm ²	1.5-16 mm ²	-	-	-	-	-
VA 	-	0.5-16 mm ²	-	-	10-50 mm ²	10-95 mm ²	-	-	-	-
Ni 	-	0.5-16 mm ²	-	-	10-50 mm ²	10-95 mm ²	-	-	-	-
DIN 	6-25 mm ²	6-120 mm ²	6-185 mm ²	6-185 mm ²	6-300 mm ²	10-300 mm ²	400-625 mm ²	150-625 mm ²	120-1000 mm ²	625-1000 mm ²
	0.5-10 mm ²	6-35 mm ²	10-50 mm ²	10-70 mm ²	10-70 mm ²	10-150 mm ²	-	150-240 mm ²	-	-
	0.5-16 mm ²	10-16 mm ²	-	10-50 mm ²	10-70 mm ²	10-95 mm ²	-	120-150 mm ²	-	-
	-	10-150 mm ² *	10-300 mm ² *	10-300 mm ² *	10-300 mm ² *	10-300 mm ² *	-	10-300 mm ² *	-	-
Al 	-	16-95 mm ²	10-185 mm ²	16-240 mm ²	10-400 mm ²	10-300 mm ²	400-500 mm ²	400-500 mm ²	150-500 mm ²	Upon request
Aldrey 	-	-	25-95 mm ²	25-95 mm ²	25-185 mm ²	25-185 mm ²	-	240-300 mm ²	150-300 mm ²	Upon request
Al/St 	-	-	-	-	4-20 (St) 25-120 (Al)	4-20 (St) 25-120 (Al)	-	-	-	Upon request
Al/Cu 	-	16-95 mm ²	10-185 mm ²	16-240 mm ²	10-400 mm ²	10-300 mm ²	400-500 mm ²	400-500 mm ²	150-500 mm ²	Upon request
	-	4-35 mm ²	16-35 mm ²	4-50 mm ²	4-70 mm ²	10-70 mm ²	-	10-185 mm ²	-	-
	-	-	-	-	70 mm ²	70-120 mm ²	-	95-120 mm ²	-	-
	0.14-50 mm ²	10-50 mm ²	10-95 mm ²	10-95 mm ²	10-240 mm ²	25-240 mm ²	-	-	-	-
	-	2x4-2x16 mm ²	2x4-2x16 mm ²	2x4-2x16 mm ²	2x4-2x16 mm ²	-	-	-	-	-
	0.1-16 mm ²	-	-	-	-	-	-	-	-	-
	0.25-6 mm ²	-	-	-	-	-	-	-	-	-
BNC plug	RG 58, RG 59, RG 62, RG 71	-	-	-	-	-	-	-	-	-
Turned pin receptacle and pin connectors	0.1-4 mm ²	-	-	-	-	-	-	-	-	-

* Cross-section depending on conductor structure

K50 SERIE



Crimping dies R 50, indent crimping



Suitable for

- Tubular cable lugs and connectors - Cu, standard type

Cross section mm ²	For item	Part No.
0.75 - 2.5	91R, 92R, 93R	R501
4 - 10	94R, 95R, 2R	R502

Crimping dies D 50

NEW



Suitable for

- Compression cable lugs to DIN 46235 and connectors to DIN 46267, part 1 - Cu

Cross section mm ²	Part No.
6 - 16	D504
16 - 25	D505

Crimping dies R 50, hexagonal crimping **NEW**



Suitable for

- Tubular cable lugs and connectors - Cu, standard type

Cross section mm ²	Part No.
6 - 16	R504
16 - 25	R505

Crimping dies Q 50



Suitable for

- Solderless terminals to DIN 46234 and pin terminals to DIN 46230 - Cu
- Solderless connectors to DIN 46341 - Cu

Cross section mm ²	Part No.
0.5 - 10	Q501

Crimping dies M 50



Suitable for

- Tubular cable lugs and connectors for solid conductors

Cross section mm ²	Part No.
1.5 - 4	M50154
6 - 10	M50610

Crimping dies AE 50



Suitable for

- Cable end-sleeves

Cross section mm ²	Part No.
0.14 - 10	AE501
10 - 25	AE502
35 - 50	AE503

Crimping dies IS 50, single crimping

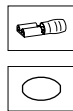


Suitable for

- Insulated cable connections, single crimping
- Insulated solderless terminals and pin terminals

Cross section mm ²	Part No.	for item
0,5 - 2,5	IS504	670 WS, 680 WS
4 - 6	IS505	700 WS
10 - 16	IS5072	ST1716IS, ST1717IS, 652C5, 652C6, 653C6

Crimping dies IS 50, double crimping

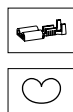


Suitable for

- Insulated cable connections, double crimping

Cross section mm ²	Part No.	for item
0,1 - 1	IS503	8201-8201B
0,5 - 6	IS501	

Crimping dies CR 50



Suitable for

- Non-insulated receptacles

Cross section mm ²	Part No.	for item	Tab Width
0.25 - 6	CR501		2.8 / 6.3
0.5 - 2.5	CR502		4.8
0.5 - 2.5	CR504	3720, 3735	6.3
0.5 - 1.5	CR505	3725	6.3

Crimping dies BNC 50



Suitable for

- Stud and shielded sleeves
- BNC plugs for coax cable RG 58, 59, 62 and 71

Part No.
BNC501

Crimping dies SB 50



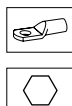
Suitable for

- Turned pin receptacles
- Pin connectors

Cross section mm ²	Part No.
0.1 - 1; 1.5 - 2.5; 4	SB501



Crimping dies HR 4



Suitable for

- Tubular cable lugs and connectors - Cu, standard type
- Tubular cable lugs for switchgear connections

Cross section mm ²	Part No.	Crimp width mm
6	HR46	5
10	HR410	5
16	HR416	5
25	HR425	5
35	HR435	5
50	HR450	5
70	HR470	5
95	HR495	5
120	HR4120	5
150	HR4150	5

Crimping die set, 6 - 150 mm² HR 4 in plastic case, 11-pce.



Suitable for

- Tubular cable lugs and connectors - Cu, standard type
- Tubular cable lugs for switchgear connections

Part No.
HR4SET

Crimping dies HIS 4



Suitable for

- Insulated tubular cable lugs and connectors
- Insulated pin terminals

Cross section mm ²	Part No.	Crimp width mm
10	HIS410	5
16	HIS416	5
25	HIS425	5
35	HIS435	5
50	HIS450	5
70	HIS470	5

Crimping dies blue connection® HB 4



► Accurate assignment of crimping tool/crimping die through colour-coding system

Suitable for

- Tubular cable lugs and connectors, blue connection® for compacted conductors acc. to DIN EN 60228 Class 2

Cross section mm ²	Part No.	Crimp width mm	Number of crimps
6	HB46	9	1
10	HB410	9	1
16	HB416	9	1
25	HB425	9	1
35	HB435	9	1
50	HB450	9	1
70	HB470	5	2
95	HB495	5	2
120	HB4120	5	2
150	HB4150	5	2

Crimping die set 6 - 150 mm² blue connection® HB 4 in plastic case, 11-pce.



Suitable for

- Tubular cable lugs and connectors, blue connection® for compacted conductors acc. to DIN EN 60228 Class 2

Part No.
HB4SET

Crimping dies HN 4, Double indent crimping



Suitable for

- Tubular cable lugs and connectors - Ni
- Tubular cable lugs and connectors - stainless steel

Cross section mm ²	Part No.
4 - 6	HN446
10	HN410
16	HN416

Crimping dies HN 4, Indent crimping



Suitable for

- Tubular cable lugs and connectors - Ni
- Tubular cable lugs and connectors - stainless steel

Cross section mm ²	Part No.
0.5 - 1.0	HN4051
1.5 - 2.5	HN41525

Crimping dies HF 4



Suitable for

- Tubular cable lugs and connectors for fine stranded conductors

Cross section mm ²	Part No.
10	HF410
16	HF416
25	HF425
35	HF435

Crimping dies HM 4



Suitable for

- Tubular cable lugs and connectors for solid conductors

Cross section mm ²	Part No.	Crimp width mm
1.5 - 2.5; 4	HM4154	5
6 - 10	HM4610	5
16	HM416	5



Crimping dies HD 4



Suitable for

- Compression cable lugs to DIN 46235 and connectors to DIN 46267, part 1 - Cu

Cross section mm ²	Part No.	Code	Crimp width mm
6	HD46	5	5
10	HD410	6	5
16	HD416	8	5
25	HD425	10	5
35	HD435	12	5
50	HD450	14	5
70	HD470	16	5
95	HD495	18	5
120	HD4120	20	5

Crimping die set, 6 - 120 mm² HD 4 in plastic case, 10-pce.



Suitable for

- Compression cable lugs to DIN 46235 and connectors to DIN 46267, part 1 - Cu

Part No.
HD4SET

Crimping dies HQ 4



Suitable for

- Solderless terminals to DIN 46234 and pin terminals to DIN 46230 - Cu
- Solderless connectors to DIN 46341 - Cu

Cross section mm ²	Part No.
6	HQ46
10	HQ410
16	HQ416
25	HQ425
35	HQ435

Crimping dies HISQ 4

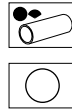


Suitable for

- Insulated solderless terminals and pin terminals

Cross section mm ²	Part No.
10	HISQ410
16	HISQ416

Crimping dies HRU 4

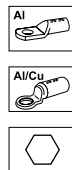


Suitable for

- Pre-rounding dies for sector-shaped Al and Cu conductors
- 3- and 4-core sector-shaped conductors

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Conductor dia. mm	Pre-rounding width mm
	10	HRU410	4.1	9
	16	HRU416	5.1	9
35	25	HRU43525	6.3	9
50	35	HRU45035	7.5	9
70	50	HRU47050	9.0	9
95	70	HRU49570	10.5	9
120	95	HRU412095	12.5	9
150	120	HRU4150120	14.0	9

Crimping dies HA 4

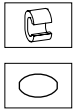


Suitable for

- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Nominal cross section mm ² re/sm	Nominal cross section mm ² rm/sm	Part No.	Conductor dia. mm	Pre-rounding width mm
16	10	HA410	10	7
25 - 35	16 - 25	HA41625	12	7
50	35	HA435	14	7
70	50	HA450	16	7
95	70	HA470	18	7

Crimping dies HC 4 / HMC 4

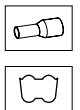


Suitable for

- C-clamps

Cross section mm ²	Part No.	Crimp width mm
16	HC416	5
25	HC425	5
4 - 4	HMC44	5
10 - 10	HMC410	5
10 - 16 10 - 25 35 - 35	HMC435	5

Crimping dies HAES 4



Suitable for

- Cable end-sleeves

Cross section mm ²	Part No.	Crimp width mm
10	HAES410S	10
16	HAES416S	10
25	HAES425S	10
35	HAES435S	10
50	HAES450S	10



Crimping dies HZAE 4

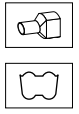


Suitable for

- Twin-cable end-sleeves

Cross section mm ²	Part No.	Crimp width mm
2 x 4	HZAE44	10
2 x 6	HZAE46	10
2 x 10	HZAE410	10
2 x 16	HZAE416	10

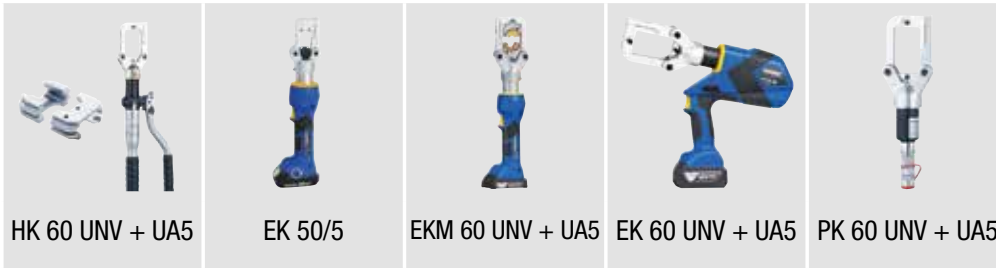
Crimping dies HZAES 4



Suitable for

- Twin-cable end-sleeves
- Special trapezoid crimp for fine stranded conductors

Cross section mm ²	Part No.	Crimp width mm
2 x 4	HZAES44	10
2 x 6	HZAES46	10
2 x 10	HZAES410	10
2 x 16	HZAES416	10



Crimping dies HR 5



Suitable for

- Tubular cable lugs and connectors - Cu, standard type

Cross section mm ²	Part No.	Crimp width mm
6 + 35	HR5635	5
10 + 50	HR51050	5
16 + 70	HR51670	5
25 + 95	HR52595	5
120	HR5120	5
150	HR5150	5
185	HR5185	5
240	HR5240	5

Crimping die set, 6 - 240 mm² HR 5 in plastic case, 9-pce.

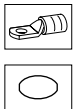


Suitable for

- Tubular cable lugs and connectors - Cu, standard type

Part No.
HR5SET

Crimping dies HIS 5

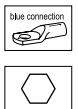


Suitable for

- Insulated tubular cable lugs and connectors
- Insulated pin terminals

Cross section mm ²	Part No.	Crimp width mm
10	HIS510	5
16	HIS516	5
25	HIS525	5
35	HIS535	5
50	HIS550	5
70	HIS570	5
95	HIS595	5

Crimping dies blue connection® HB 5



► Accurate assignment of crimping tool/crimping die through colour-coding system

Suitable for

- Tubular cable lugs and connectors, blue connection® for compacted conductors acc. to DIN EN 60228 Class 2

Cross section mm ²	Part No.	Crimp width mm	Number of crimps
6 + 35	HB5635	9	1
10 + 50	HB51050	9	1
16 + 70	HB51670	9	1
25 + 95	HB52595	9	1
120	HB5120	5	2
150	HB5150	5	2
185	HB5185	5	2

Crimping die set, 6 - 185 mm² blue connection® HB 5 in plastic case, 8-pce.



Suitable for

- Tubular cable lugs and connectors, blue connection® for compacted conductors acc. to DIN EN 60228 Class 2

Part No.
HB5SET

Crimping dies HF 5



Suitable for

- Tubular cable lugs and connectors for fine stranded conductors

Cross section mm ²	Part No.
10	HF510
16	HF516
25	HF525
35	HF535
50	HF550

Crimping dies HD 5



Suitable for

- Compression cable lugs to DIN 46235 and connectors to DIN 46267, part 1 - Cu

Cross section mm ²	Part No.	Code	Crimp width mm
6 + 35	HD5635	5 + 12	5
10 + 50	HD51050	6 + 14	5
16 + 70	HD51670	8 + 16	5
25 + 95	HD52595	10 + 18	5
120	HD5120	20	5
150	HD5150	22	5
185	HD5185	25	5

Crimping die set, 6 - 185 mm² HD 5 in plastic case, 8-pce.



Suitable for

- Compression cable lugs to DIN 46235 and connectors to DIN 46267, part 1 - Cu

Part No.
HD5SET

Crimping dies HQ 5

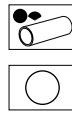


Suitable for

- Solderless terminals to DIN 46234 and pin terminals to DIN 46230 - Cu

Cross section mm ²	Part No.
10	HQ510
16	HQ516
25	HQ525
35	HQ535
50	HQ550

Crimping dies HRU 5

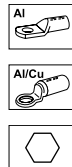


Suitable for

- Pre-rounding dies for sector-shaped Al and Cu conductors
- 3- and 4-core sector-shaped conductors

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Conductor dia. mm	Pre-rounding width mm
	10	HRU510	4.1	12
	16	HRU516	5.1	12
35	25	HRU53525	6.3	12
50	35	HRU55035	7.5	12
70	50	HRU57050	9	12
95	70	HRU59570	10.5	12
120	95	HRU512095	12.5	12
150	120	HRU5150120	14	12
185	150	HRU5185150	15.7	12
240	185	HRU5240185	17.5	12
300	240	HRU5300240	20.3	12

Crimping dies HA 5

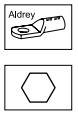


Suitable for

- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Code	Crimp width mm
16	10	HA510	10	7
25-35	16-25	HA51625	12	7
50	35	HA535	14	7
70	50	HA550	16	7
95	70	HA570	18	7
120-150	95-120	HA595120	22	7
185	150	HA5150	25	7

Crimping dies HAD 5

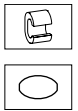


Suitable for

- Compression joints for full tension connections of Aldrey conductors according to DIN EN 50182

Cross section mm ²	Part No.	Code	Crimp width mm
25	HAD525	12	7
35	HAD535	14	7
50	HAD550	16	7
70	HAD570	18	7
95	HAD595	20	7

Crimping dies HC 5



Suitable for

- C-clamps

Cross section mm ²	Part No.	Crimp width mm
16	HC516	5
25	HC525	5
35	HC535	5



Crimping dies HAES 5



Suitable for

- Cable end-sleeves

Cross section mm ²	Part No.	Crimp width mm
10	HAES510S	20
16	HAES516S	20
25	HAES525S	20
35	HAES535S	20
50	HAES550S	20
70	HAES570S	20
95	HAES595S	20

Crimping dies HZAE 5



Suitable for

- Twin-cable end-sleeves

Cross section mm ²	Part No.	Crimp width mm
2 x 4	HZAE54	20
2 x 6	HZAE56	20
2 x 10	HZAE510	20
2 x 16	HZAE516	20



Crimping dies R



Suitable for

- Tubular cable lugs and connectors - Cu, standard type
- Tubular cable lugs for switchgear connections

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Cross section mm ²	Part No.	Crimp width mm
6	R6	5
10	R10	5
16	R16	5
25	R25	5
35	R35	5
50	R50	5
70	R70	5
95	R95	5
120	R120	5
150	R150	5
185	R185	5
240	R240	5

Crimping dies IS



Suitable for

- Insulated tubular cable lugs and connectors
- Insulated pin terminals

Cross section mm ²	Part No.	Crimp width mm
10	IS10	5
16	IS16	5
25	IS25	5
35	IS35	5
50	IS50	5
70	IS70	5
95	IS95	5

Crimping dies F



Suitable for

- Tubular cable lugs and connectors for fine stranded conductors

Cross section mm ²	Part No.
10	F10
16	F16
25	F25
35	F35
50	F50



Crimping dies M



Suitable for

- Tubular cable lugs and connectors for solid conductors

Cross section mm ²	Part No.	Crimp width mm
1.5 - 4	M154	5
6 - 10	M610	5
16	M16	5

Crimping dies D



Suitable for

- Compression cable lugs to DIN 46235 and connectors to DIN 46267, part 1 - Cu

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Cross section mm ²	Part No.	Code	Crimp width mm
6	D6	5	5
10	D10	6	5
16	D16	8	5
25	D25	10	5
35	D35	12	5
50	D50	14	5
70	D70	16	5
95	D95	18	5
120	D120	20	5
150	D150	22	5
185	D185	25	5

Crimping dies Q



Suitable for

- Solderless terminals to DIN 46234 and pin terminals to DIN 46230 - Cu
- Solderless connectors to DIN 46341 - Cu

Cross section mm ²	Part No.
10	Q10
16	Q16
25	Q25
35	Q35
50	Q50
70	Q70

Crimping dies ISQ

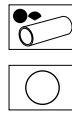


Suitable for

- Insulated solderless terminals and pin terminals

Cross section mm ²	Part No.
10	ISQ10
16	ISQ16
25	ISQ25
35	ISQ35
50	ISQ50

Crimping dies RU

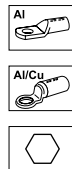


Suitable for

- Pre-rounding dies for sector-shaped Al and Cu conductors
- 3- and 4-core sector-shaped conductors

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Conductor dia. mm	Pre-rounding width mm
	10	RU10	4.1	19.5
	16	RU16	5.1	19.5
35	25	RU3525	6.3	19.5
50	35	RU5035	7.5	19.5
70	50	RU7050	9.0	19.5
95	70	RU9570	10.5	19.5
120	95	RU12095	12.5	19.5
150	120	RU150120	14.0	19.5
185	150	RU185150	15.8	19.5
240	185	RU240185	17.5	19.5
300	240	RU300240	20.3	19.5

Crimping dies A



Suitable for

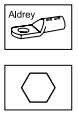
- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Code	Crimp width mm
16	10	A10	10	7
25-35	16-25	A1625	12	7
50	35	A35	14	7
70	50	A50	16	7
95	70	A70	18	7
120-150	95-120	A95120	22	7
185	150	A150	25	7
240	185	A185	28	7

Crimping dies AD



Suitable for

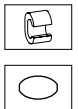
- Compression joints for full tension connections of Aldrey conductors according to DIN EN 50182

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Cross section mm ²	Part No.	Code	Crimp width mm
25	AD25	12	7
35	AD35	14	7
50	AD50	16	7
70	AD70	18	7
95	AD95	20	7

Crimping dies C / MC



Suitable for

- C-clamps

Cross section mm ²	Part No.	Crimp width mm
16	C16	5
25	C25	5
35	C35	5
50	C50	5
4 - 4	MC4	5
10 - 10	MC10	5
10 - 16 10 - 25 10 - 35	MC35	5



Crimping dies AES



Suitable for

- Cable end-sleeves

Cross section mm ²	Part No.	Crimp width mm
10	AES10S	20
16	AES16S	20
25	AES25S	20
35	AES35S	20
50	AES50S	20
70	AES70S	20
95	AES95S	20

Crimping dies ZAE



Suitable for

- Twin-cable end-sleeves

Cross section mm ²	Part No.	Crimp width mm
2 x 4	ZAE4	20
2 x 6	ZAE6	20
2 x 10	ZAE10	20
2 x 16	ZAE16	20

Crimping dies ZAES



Suitable for

- Twin-cable end-sleeves
- Special trapezoid crimp for fine stranded conductors

Cross section mm ²	Part No.	Crimp width mm
4	ZAES4	20
6	ZAES6	20
10	ZAES10	20
16	ZAES16	20

K22 SERIE



K 22

HK 60/22

HK 60 UNV + UA22

EK 60/22

EKM 60/22

EKM 60/22 IS

EKM 60 UNV + UA22

EK 60 UNV + UA22

THK 22

PK 22

PK 60 UNV + UA22

Crimping dies R 22

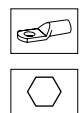


Suitable for

- Tubular cable lugs and connectors - Cu, standard type
- Tubular cable lugs for switchgear connections

Cross section mm ²	Part No.	Crimp width mm
6	R226	5
10	R2210	5
16	R2216	5
25	R2225	5
35	R2235	5
50	R2250	5
70	R2270	5
95	R2295	5
120	R22120	5
150	R22150	5
185	R22185	5
240	R22240	5
300	R22300	5

Crimping die set, 6 - 300 mm² R 22 in plastic case, 14-pce.

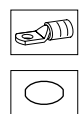


Suitable for

- Tubular cable lugs and connectors - Cu, standard type
- Tubular cable lugs for switchgear connections

Part No.
R22SET

Crimping dies IS 22



Suitable for

- Insulated tubular cable lugs and connectors
- Insulated pin terminals

Cross section mm ²	Part No.	Crimp width mm
10	IS2210	5
16	IS2216	5
25	IS2225	5
35	IS2235	5
50	IS2250	5
70	IS2270	5
95	IS2295	5
120	IS22120	5
150	IS22150	5



Crimping dies, blue connection® B 22



► Accurate assignment of crimping tool/crimping die through colour-coding system

Suitable for

- Tubular cable lugs and connectors, blue connection® for compacted conductors acc. to DIN EN 60228 Class 2

Cross section mm ²	Part No.	Crimp width mm	Number of crimps
6	B226	9	1
10	B2210	9	1
16	B2216	9	1
25	B2225	9	1
35	B2235	9	1
50	B2250	9	1
70	B2270	9	1
95	B2295	9	1
120	B22120	9	1
150	B22150	9	1
185	B22185	5	2
240	B22240	5	2
300	B22300	5	3

Crimping die set 6 - 300 mm², blue connection® B22 in plastic case, 14-pce.



Suitable for

- Tubular cable lugs and connectors, blue connection® for compacted conductors acc. to DIN EN 60228 Class 2

Part No.
B22SET

Crimping dies F 22



Suitable for

- Tubular cable lugs and connectors for fine stranded conductors

Cross section mm ²	Part No.
10	F2210
16	F2216
25	F2225
35	F2235
50	F2250
70	F2270

Crimping dies M 22



Suitable for

- Tubular cable lugs and connectors for solid conductors

Cross section mm ²	Part No.	Crimp width mm
1.5 - 4	M22154	5
6 - 10	M22610	5
16	M2216	5

Crimping dies N 22



Suitable for

- Tubular cable lugs and connectors - Ni
- Tubular cable lugs and connectors - stainless steel

Cross section mm ²	Part No.
10	N2210
16	N2216
25	N2225
35	N2235
50	N2250

Crimping dies D 22



Suitable for

- Compression cable lugs to DIN 46235 and connectors to DIN 46267, part 1 - Cu

Cross section mm ²	Part No.	Code	Crimp width mm
6	D226	5	5
10	D2210	6	5
16	D2216	8	5
25	D2225	10	5
35	D2235	12	5
50	D2250	14	5
70	D2270	16	5
95	D2295	18	5
120	D22120	20	5
150	D22150	22	5
185	D22185	25	5
240	D22240	28	5
300	D22300	32	5

Crimping die set, 6-300 mm² D 22 in plastic case, 14-pce.

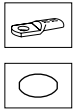


Suitable for

- Compression cable lugs to DIN 46235 and connectors to DIN 46267, part 1 - Cu

Part No.
D22SET

Crimping dies DP 22

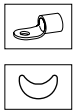


Suitable for

- Double compression cable lugs

Cross section mm ²	Part No.	Code
2 x 50	DP2250	22 DP
2 x 70	DP2270	24 DP

Crimping dies Q 22

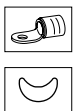


Suitable for

- Solderless terminals to DIN 46234 and pin terminals to DIN 46230 - Cu
- Solderless connectors to DIN 46341 - Cu

Cross section mm ²	Part No.
10	Q2210
16	Q2216
25	Q2225
35	Q2235
50	Q2250
70	Q2270

Crimping dies ISQ 22

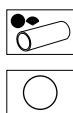


Suitable for

- Insulated solderless terminals and pin terminals

Cross section mm ²	Part No.
10	ISQ2210
16	ISQ2216
25	ISQ2225
35	ISQ2235
50	ISQ2250
70	ISQ2270

Crimping dies RU 22

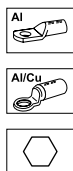


Suitable for

- Pre-rounding of sector-shaped Al- and Cu-conductors
- 3- and 4-core sector-shaped conductors

Nominal cross section mm ² re/sm	Nominal cross section mm ² rm/sm	Part No.	Pre-rounding width mm
	10	RU2210	19.5
	16	RU2216	19.5
35	25	RU223525	19.5
50	35	RU225035	19.5
70	50	RU227050	19.5
95	70	RU229570	19.5
120	95	RU2212095	19.5
150	120	RU22150120	19.5
185	150	RU22185150	19.5
240	185	RU22240185	19.5
300	240	RU22300240	19.5
	300	RU22300SM	19,5

Crimping dies A 22

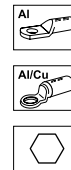


Suitable for

- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Code	Crimp width mm
16	10	A2210	10	7
25-35	16-25	A221625	12	7
50	35	A2235	14	7
70	50	A2250	16	7
95	70	A2270	18	7
120-150	95-120	A2295120	22	7
185	150	A22150	25	7
270	185	A22185	28	7
300	240	A22240	32	5
400	300	A22300	34	5

Crimping die set, 10-300 mm² A 22 in plastic case, 11-pce.



Suitable for

- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Part No.
A22SET

Crimping dies AD 22



Suitable for

- Compression joints for full tension connections of Aldrey conductors according to DIN EN 50182
- Al-conductor acc. to DIN EN 50182, 120 - 185 mm²

Cross section mm ²	Part No.	Code	Crimp width mm
25	AD2225	12	7
35	AD2235	14	7
50	AD2250	16	7
70	AD2270	18	7
95	AD2295	20	7
120	AD22120	25	7
150 - 185	AD22150185	28	7

Crimping dies AST 22



Suitable for

- Compression joints acc. to DIN 48085, part 3 for Al-/St-cable acc. to DIN EN 50182
- Aluminium crimping

Cross section mm ²	Part No.	Code	Crimp width mm
25 - 4	AST2225	12	7
35 - 6	AST2235	14	7
50 - 8	AST2250	16	7
70 - 12	AST2270	18	7
95 - 15	AST2295	22	7
120 - 20	AST22120	25	7

Crimping dies ST 22

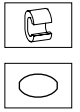


Suitable for

- Compression joints acc. to DIN 48085, part 3 for Al-/St-cable acc. to DIN EN 50182
- Steel crimping

Cross section mm ²	Part No.	Code	Crimp width mm
25 - 4 35 - 6	ST2246	6	5
50 - 8	ST228	7	5
70 - 12 95 - 15	ST221215	9	5
120 - 20	ST2220	13	5

Crimping dies C 22 / MC 22



Suitable for

- C-clamps

Cross section mm ²	Part No.	Crimp width mm
16	C2216	5
25	C2225	5
35	C2235	5
50	C2250	5
70	C2270	5
4 - 4	MC224	5
10 - 10	MC2210	5
10 - 1 10 - 25 35 - 35	MC2235	5

Crimping dies H 22



Suitable for

- H-clamps

Cross section mm ²	Part No.	Crimp width mm
70	H2270	5



Crimping dies AES 22



Suitable for

- Cable end-sleeves
- Special trapezoid crimp for fine stranded conductors

Additional information

- * = Not suitable for THK 22 due to opening width

Cross section mm ²	Part No.	Crimp width mm
10	AES2210S	21
16	AES2216S	21
25	AES2225S	21
35	AES2235S	21
50	AES2250S	21
70	AES2270S	21
95	AES2295S	21
120	AES22120S	21
150	AES22150S	21
185 *	AES22185S	21
240 *	AES22240S	21

Crimping dies ZAE 22



Suitable for

- Twin-cable end-sleeves

Cross section mm ²	Part No.	Crimp width mm
2 x 4	ZAE224	21
2 x 6	ZAE226	21
2 x 10	ZAE2210	21
2 x 16	ZAE2216	21

Crimping dies ZAES 22



Suitable for

- Twin-cable end-sleeves
- Special trapezoid crimp for fine stranded conductors

Cross section mm ²	Part No.	Crimp width mm
2 x 4	ZAES224	21
2 x 6	ZAES226	21
2 x 10	ZAES2210	21
2 x 16	ZAES2216	21

K13 SERIE



HK 120/30

HK 120/42

HK 120 U

EK 120/32

EK 120/42

EK 120 UNV

EK 120 U

EK 135 FT

THK 120

PK 120/42

PK 120 U

HK 25/2
+ 25/A13

PK 25/2
+ 25/A13

Crimping dies HR 13



Suitable for

- Tubular cable lugs and connectors - Cu, standard type
- Tubular cable lugs for switchgear connections

Technical instructions

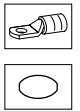
- For connectors, refer to the installation instructions in the technical appendix, page i-8

Additional information

- * = Narrow crimping (crimp 5 x)

Cross section mm ²	Part No.	Crimp width mm
16	HR1316	10
25	HR1325	10
35	HR1335	10
50	HR1350	13
70	HR1370	13
95	HR1395	14
120	HR13120	14
150	HR13150	14
185	HR13185	11
240	HR13240	11
300	HR13300	11
400 *	HR13400	5

Crimping dies HIS 13

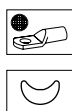


Suitable for

- Insulated tubular cable lugs and connectors
- Insulated pin terminals

Cross section mm ²	Part No.	Crimp width mm
10	HIS1310	5
16	HIS1316	5
25	HIS1325	5
35	HIS1335	5
50	HIS1350	5
70	HIS1370	5
95	HIS1395	5
120	HIS13120	5
150	HIS13150	5

Crimping dies HF 13

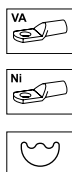


Suitable for

- Tubular cable lugs and connectors for fine stranded conductors

Cross section mm ²	Part No.
10	HF1310
16	HF1316
25	HF1325
35	HF1335
50	HF1350
70	HF1370
95	HF1395
120	HF13120
150	HF13150

Crimping dies HN 13, Double indent crimping

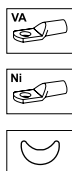


Suitable for

- Tubular cable lugs and connectors - Ni
- Tubular cable lugs and connectors - stainless steel

Cross section mm ²	Part No.
10	HN1310
16	HN1316
25	HN1325
35	HN1335
50	HN1350

Crimping dies HN 13, Indent crimping



Suitable for

- Tubular cable lugs and connectors - Ni
- Tubular cable lugs and connectors - stainless steel

Cross section mm ²	Part No.
70	HN1370
95	HN1395

Crimping dies HD 13



Suitable for

- Compression cable lugs to DIN 46235 - Cu
- Compression joints to DIN 46267, part 1 - Cu

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Additional information

- * = Narrow crimping (crimp 5 x)

Cross section mm ²	Part No.	Code	Crimp width mm
10	HD1310	6	10
16	HD1316	8	10
25	HD1325	10	10
35	HD1335	12	10
50	HD1350	14	13
70	HD1370	16	13
95	HD1395	18	14
120	HD13120	20	14
150	HD13150	22	10
185	HD13185	25	10
240	HD13240	28	10
300 *	HD13300	32	7

Crimping dies HDP 13



Suitable for

- Double compression cable lugs

Cross section mm ²	Part No.	Code	Crimp width mm
2 x 50	HDP1350	22 DP	12
2 x 70	HDP1370	24 DP	12
2 x 95	HDP1395	29 DP	12
2 x 120	HDP13120	32 DP	12

Crimping dies HQ 13



Suitable for

- Solderless terminals to DIN 46234 and pin terminals to DIN 46230 - Cu
- Solderless connectors to DIN 46341 - Cu

Cross section mm ²	Part No.
10	HQ1310
16	HQ1316
25	HQ1325
35	HQ1335
50	HQ1350
70	HQ1370
95	HQ1395
120	HQ13120
150	HQ13150

Crimping dies HISQ 13

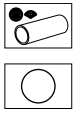


Suitable for

- Insulated solderless terminals and pin terminals

Cross section mm ²	Part No.
10	HISQ1310
16	HISQ1316
25	HISQ1325
35	HISQ1335
50	HISQ1350
70	HISQ1370
95	HISQ1395

Crimping dies HRU 13



Suitable for

- Pre-rounding dies for sector-shaped Al and Cu conductors
- 3- and 4-core sector-shaped conductors

Nominal cross section mm ² re/sm	Nominal cross section mm ² rm/sm	Part No.	Conductor dia. mm	Pre-rounding width mm
	10	HRU1310	4.1	35
	16	HRU1316	5.1	35
35	25	HRU133525	6.3	35
50	35	HRU135035	7.5	35
70	50	HRU137050	9.0	35
95	70	HRU139570	10.5	35
120	95	HRU1312095	12.5	35
150	120	HRU13150120	14.0	35
185	150	HRU13185150	15.8	35
240	185	HRU13240185	17.5	35
300	240	HRU13300240	20.3	35
	300	HRU13300SM	22.5	35

Crimping dies HA 13



Suitable for

- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Code	Crimp width mm
16	10	HA1310	10	12
25-35	16-25	HA131625	12	12
50	35	HA1335	14	12
70	50	HA1350	16	12
95	70	HA1370	18	12
120-150	95-120	HA1395120	22	14
185	150	HA13150	25	14
270	185	HA13185	28	14
300	240	HA13240	32	17
-	300	HA13300	34	17

Crimping dies HAD 13



Suitable for

- Compression joints for full tension connections of Aldrey conductors according to DIN EN 50182
- Al-conductor acc. to DIN EN 50182, 120 - 185 mm²

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Cross section mm ²	Part No.	Code	Crimp width mm
25	HAD1325	12	12
35	HAD1335	14	12
50	HAD1350	16	12
70	HAD1370	18	12
95	HAD1395	20	14
120	HAD13120	25	14
150 - 185	HAD13150185	28	14

Crimping dies HAST 13



Suitable for

- Compression joints acc. to DIN 48085, part 3 for Al-/St-cable acc. to DIN EN 50182
- Aluminium crimping

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Cross section mm ²	Part No.	Code	Crimp width mm
25 - 4	HAST1325	12	12
35 - 6	HAST1335	14	12
50 - 8	HAST1350	16	12
70 - 12	HAST1370	18	12
95 - 15	HAST1395	22	14
120 - 20	HAST13120	25	14

Crimping dies HST 13



Suitable for

- Compression joints acc. to DIN 48085, part 3 for Al-/St-cable acc. to DIN EN 50182
- Steel crimping

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Cross section mm ²	Part No.	Code	Crimp width mm
25 - 4	HST1346	6	12
35 - 6			
50 - 8	HST138	7	12
70 - 12	HST131215	9	12
95 - 15			
120 - 20	HST1320	13	12

Crimping dies HC 13 / HMC 13

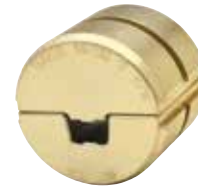


Suitable for

- C-clamps

Cross section mm ²	Part No.	Crimp width mm
16	HC1316	16
25	HC1325	17
35	HC1335	20
50	HC1350	20
70	HC1370	20
10 - 10	HMC1310	13
10 - 16	HMC1335	18
10 - 25		
35 - 35		
25 - 50	HMC1350	20
50 - 50		
35 - 70	HMC1370	20

Crimping dies HAES 13



Suitable for

- Cable end-sleeves

Cross section mm ²	Part No.	Crimp width mm
25	HAES1325S	20
35	HAES1335S	20
50	HAES1350S	20
70	HAES1370S	20
95	HAES1395S	20
120	HAES13120S	20
150	HAES13150S	35
185	HAES13185S	35
240	HAES13240S	35

Crimping dies HAH 13



Suitable for

- H-clamps

Cross section mm ²	Part No.	Crimp width mm
70	HAH1370	30
95	HAH1395	30
120	HAH13120	20

K15 SERIE



Crimping dies HD 15



NEW



Suitable for

- Compression cable lugs to DIN 46235 and connectors to DIN 46267, part 1 - Cu

Additional information

- * = Narrow crimping (crimp 7 x)

Cross section mm ²	Part No.	Code	Crimp width mm
400 *	HD15400	38	7
500 *	HD15500	42	7
625 *	HD15625	44	7

Crimping dies HA 15



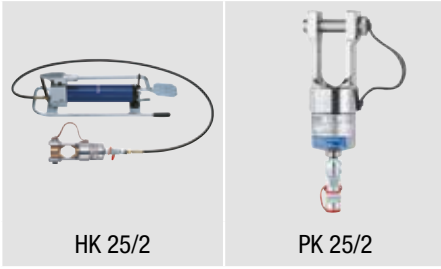
NEW



Suitable for

- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Cross section mm ²	Part No.	Code	Crimp width mm
400	HA15400	38	15
500	HA15500	44	15



Adapter for crimping dies Series 13

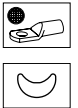


Suitable for

- All crimping dies of series 13

Item	Part No.
Adapter for crimping dies Series 13	25A13

Crimping dies HF 25



Suitable for

- Tubular cable lugs and connectors for fine stranded conductors

Cross section mm ²	Part No.
185	HF25185
240	HF25240
300	HF25300

Crimping dies HR 25

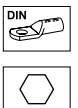


Suitable for

- Tubular cable lugs and connectors - Cu, standard type
- Tubular cable lugs for switchgear connections

Cross section mm ²	Part No.	Crimp width mm
150	HR25150	20
185	HR25185	20
240	HR25240	20
300	HR25300	20
400	HR25400	20

Crimping dies HD 25



Suitable for

- Compression cable lugs to DIN 46235 - Cu
- Compression joints to DIN 46267, part 1 - Cu

Cross section mm ²	Part No.	Code	Crimp width mm
150	HD25150	22	15
185	HD25185	25	15
240	HD25240	28	15
300	HD25300	32	17
400	HD25400	38	17
500	HD25500	42	17
625	HD25625	44	15



Crimping dies HQ 25



Suitable for

- Solderless terminals to DIN 46234 and pin terminals to DIN 46230 - Cu
- Solderless connectors to DIN 46341 - Cu

Cross section mm ²	Part No.
150	HQ25150
185	HQ25185
240	HQ25240

Crimping dies HISQ 25



Suitable for

- Insulated solderless terminals and pin terminals

Cross section mm ²	Part No.
120	HISQ25120
150	HISQ25150

Crimping dies HA 25



Suitable for

- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Code	Crimp width mm
-	400	HA25400	38	17
-	500	HA25500	44	15

Crimping dies HRU 25



Suitable for

- Pre-rounding dies for sector-shaped Al and Cu conductors
- 3- and 4-core sector-shaped conductors

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Conductor dia. mm	Pre-rounding width mm
	10	HRU2510	4.1	40
	16	HRU2516	5.1	40
35	25	HRU253525	6.3	40
50	35	HRU255035	7.5	40
70	50	HRU257050	9.0	40
95	70	HRU259570	10.5	40
120	95	HRU2512095	12.5	40
150	120	HRU25150120	14.0	40
185	150	HRU25185150	15.8	40
240	185	HRU25240185	17.5	40
300	240	HRU25300240	20.3	40
	300	HRU25300SM	22.5	40

Crimping dies HAD 25

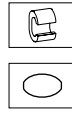


Suitable for

- Compression joints for full tension connections of Aldrey conductors according to DIN EN 50182
- Al-conductor acc. to DIN EN 50182, 120 - 300 mm²

Cross section mm ²	Part No.	Code	Crimp width mm
240	HAD25240	34	17
300	HAD25300	38	17

Crimping dies HC 25 / HMC 25

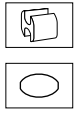


Suitable for

- C-clamps

Cross section mm ²	Part No.	Crimp width mm
16	HC2516	16
25	HC2525	17
50	HC2550	20
95	HC2595	20
10 - 16; 10 - 25; 35 - 35	HMC2535	18
25 - 50; 50 - 50	HMC2550	20
35 - 70	HMC2570	20
35 - 95; 70 - 95	HMC2595	20
120 - 120	HMC25120	20
150 - 150	HMC25150	20
185 - 185	HMC25185	20

Crimping dies HAH 25



Suitable for

- H-clamps

Cross section mm ²	Part No.	Crimp width mm
95	HAH2595	20
120	HAH25120	30

K45 SERIE



HK 45

PK 45

Crimping dies HD 45



Suitable for

- Compression cable lugs to DIN 46235 - Cu
- Compression joints to DIN 46267, part 1 - Cu

Cross section mm ²	Part No.	Code	Crimp width mm
120	HD45120	20	15
150	HD45150	22	15
185	HD45185	25	15
240	HD45240	28	15
300	HD45300	32	17
400	HD45400	38	17
500	HD45500	42	17
625	HD45625	44	17
800	HD45800	52	20
1000	HD451000	58	20

Crimping dies HAD 45



Suitable for

- Compression joints for full tension connections of Aldrey conductors according to DIN EN 50182
- Al-conductor acc. to DIN EN 50182, 150 - 300 mm²

Cross section mm ²	Part No.	Code	Crimp width mm
150 - 185	HAD45150185	28	20
240	HAD45240	34	20
300	HAD45300	38	20

Crimping dies HA 45



Suitable for

- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Cross section mm ²	Part No.	Code	Crimp width mm
150	HA45150	25	15
185	HA45185	28	15
240	HA45240	32	17
300	HA45300	34	20
400	HA45400	38	20
500	HA45500	44	20



PK 1000



Crimping dies HD 100

NEW



Suitable for

- Compression cable lugs to DIN 46235 - Cu
- Compression joints to DIN 46267, part 1 - Cu

Cross section mm ²	Part No.	Code	Crimp width mm
625	HD100625	44	60
800	HD100800	52	40
1000	HD1001000	58	40



Special crimping dies available on request.

CUTS ABSOLUTELY EVERYTHING.

Klauke cutting tools offer an impressively broad range of applications. No matter which material or cross sections you want to cut, Klauke tools ensure you work simply, quickly and safely.





Cutting

Mechanical cutting tools	346
<hr/>	
Battery powered cutting tools	354
Platform based on 10.8 V	355
Platform based on 18 V	360
<hr/>	
Hand-operated hydraulic cutting tools	380
<hr/>	
Hydraulic cutting heads and cutting systems	383
Hydraulic cutting heads	381
Hydraulic cutting systems	389
<hr/>	
Special cutting tools	390
DIN rail cutting tools	391
Wiring duct cutter	392
Cutting dies	392



PERFECT CUTTING - MECHANICAL CUTTING TOOLS

In use, every cut must sit straight away. Our mechanical cutting tools are prepared for your work. The ergonomic handle is there to assist you, because the first moment, the typical Klauke lever technology optimally transfers your force. Your cuts are precise, the tools are easy to use and durable thanks to high material quality. Good first impression.



In brief

- ▶ Cutting tools for aluminium and copper cables up to 100 mm diameter
- ▶ Simple working due to optimised force transmission
- ▶ Precise cuts with high-quality cutting blades
- ▶ Effortless operations thanks to ergonomic shape

► For everyday use

Klauke cutting tools are made from high-quality materials: “Made in Germany”. Highly durable and are therefore best suited for daily use in workshops or on the construction site.

- Cutting tools for aluminium and copper cables up to 100 mm diameter



- Also available as fully-insulated tool to 1000 V to DIN EN 60900
- Re-adjustable cutters
- Effortless operations due to low weight
- Processing of high-quality materials

► Powerful in every situation

- Compact and convenient size
- Practical single-handed operation with low effort
- Effective cutting performance up to Cu 12 mm dia.
- Reduced effort required due to different cutting profiles for large and small diameters

► Flexible in use

- Stepless telescopic handles permit optimum lever adjustment
- Cutting head can be replaced
- Well suited for fine-stranded conductors





Cutting

Mechanical cutting tools

K 118 Hand-operated cutting tool for Al and Cu cables to 12 mm dia.



- ▶ Perfect in confined areas
- ▶ Handy shape with high cutting performance
- ▶ Exceptional cutting tool for solid, multi, fine and superfine stranded cables e.g. to DIN EN 60228, Class 1, 2, 5 and 6
- ▶ Increased user convenience thanks to two cutting profiles for small and large cable dimensions

Characteristics

- One-hand operation

Suitable for

- For solid conductors, class 1, to 10 mm² (max. 4 mm dia.)
- Copper stranded conductors, class 2, to 16 mm² (max. 5 mm dia.)
- Aluminium stranded conductors, class 2, to 25 mm² (max. 10 mm dia.)
- Copper fine and superfine stranded conductors, class 5 and 6, to 50 mm² (max. 12 mm dia.)

Technical data	
Cutting range	max. 12 mm dia., e.g. 1 x 50 mm ² H07VK
Length	165 mm
Weight	0.17 kg
Item	Part No.
Hand-operated cutting tool for to 12 mm dia.	K118

K 100 Hand-operated cutting tool for Al and Cu cables to 14 mm dia.



- ▶ Optimised cutting tool for fine and multi-stranded cables

Characteristics

- Compact design permits cutting in confined areas
- Two-hand operation

Technical data	
Cutting range	max. 14 mm dia., e.g. 1 x 50 mm ² H07VK
Length	280 mm
Weight	0.55 kg
Item	Part No.
Hand-operated cutting tool for Cu and Al cables to 14 mm dia.	K100

K 102 Hand-operated cutting tool for to 25 mm dia.



- ▶ Optimised cutting tool for fine and superfine stranded Cu cables to DIN EN 60228, Cl. 5+6
- ▶ Adjustable pivot point

Characteristics

- Handle with slip guard and inscription panel
- Two-handed locking

Technical data	
Cutting range	max. 25 mm dia., e.g. 1 x 95 mm ² H07V-K
Length	210 mm
Weight	0.38 kg
Item	Part No.
Hand-operated cutting tool for to 25 mm dia.	K102

K 106/1 Hand-operated cutting tool for Al and Cu cables, class 2 to Ø 34 mm

NEW



- ▶ Effortless operations thanks to energy-saving 2-stage ratchet system
- ▶ Lightweight design with great cutting performance

Characteristics

- One-hand operation
- Not suitable for cutting steel or steel wire
- Handle with slip guard and inscription panel

Technical data

Cutting range	max. 34 mm dia., e.g. 4 x 35 mm ² NYN
Length	260 mm
Weight	0.6 kg

Item	Part No.
Hand-operated cutting tool for Cu and Al cables to 34 mm dia.	K1061

K 106/2 Hand-operated cutting tool for Al and Cu cables, class 2 to Ø 62 mm

NEW



- ▶ Effortless operations thanks to energy-saving 2-stage ratchet system
- ▶ Lightweight design with great cutting performance
- ▶ Cutting range to 62 mm

Characteristics

- One-hand operation
- Not suitable for cutting steel or steel wire
- Handle with slip guard and inscription panel

Technical data

Cutting range	e.g. 4 x 120 mm ² NYN, max. 62 mm dia.
Length	260 mm
Weight	0.6 kg

Item	Part No.
Hand-operated cutting tool for Cu and Al cables to 62 mm dia.	K1062

K 103/1 Hand-operated cutting tool for Al and Cu cables to 60 mm dia.



- ▶ Energy-efficient 2-stage ratchet system
- ▶ For earth, plastic and rubber cables

Characteristics

- Not suitable for cutting steel or steel wire

Technical data

Cutting range	e.g. 4 x 240 mm ² NAYN, max. 60 mm dia.
Length	720 mm
Weight	4.5 kg

Item	Part No.
Hand-operated cutting tool for Cu and Al cables to 60 mm dia.	K1031



Cutting

Mechanical cutting tools

K 104/1 Hand-operated cutting tool for Al and Cu cables to 100 mm dia.



- ▶ Energy-efficient 2-stage ratchet system
- ▶ For earth, plastic and rubber cables
- ▶ Very wide cutting range up to 100 mm diameter

Characteristics

- Not suitable for cutting steel or steel wire

Technical data

Cutting range e.g. 4 x 400 mm² NAYY, max. 100 mm dia.

Length 870 mm

Weight 5.7 kg

Item	Part No.
Hand-operated cutting tool for Cu and Al cables to 100 mm dia.	K1041

K 130 Hand-operated cutting tool for Al and Cu cables to 30 mm dia.



- ▶ Exceptional cutting performance even with fine-stranded conductors thanks to specially designed, extremely sharp cutting blades
- ▶ Large cutting range

Characteristics

- Safe working thanks to roughened handle
- Not suitable for cutting steel or steel wire

Technical data

Cutting range e.g. 4 x 35 mm² NYN, max. 30 mm dia.

Length 570 mm

Weight 1.7 kg

Item	Part No.
Hand-operated cutting tool for Cu and Al cables to 30 mm dia.	K130

K 230 Hand-operated cutting tool for Al and Cu cables to 30 mm dia.



- ▶ Exceptional cutting performance even with fine-stranded conductors thanks to specially designed, extremely sharp cutting blades
- ▶ Secure grip due to roughened handle
- ▶ 1000 V fully insulated to IEC 60900

Characteristics

- Not suitable for cutting steel or steel wire

Technical data

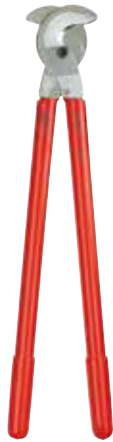
Cutting range max. 30 mm dia., e.g. 4 x 35 mm² NYN

Length 570 mm

Weight 2.1 kg

Item	Part No.
Hand-operated cutting tool for Cu and Al cables to 30 mm dia.	K230

K 250 Hand-operated cutting tool for Al and Cu cables to 50 mm dia.



- ▶ Exceptional cutting performance even with fine-stranded conductors thanks to specially designed, extremely sharp cutting blades
- ▶ 1000 V fully insulated to IEC 60900

Characteristics

- Two-hand operation
- Large cutting range
- Not suitable for cutting steel or steel wire

Technical data

Cutting range	e.g. 4 x 120 mm ² NYY, max. 50 mm dia.
Length	710 mm
Weight	3.7 kg

Item	Part No.
Hand-operated cutting tool for Cu and Al cables to 50 mm dia.	K250



K 150 Hand-operated cutting tool for Al and Cu cables to 50 mm dia.



- ▶ Exceptional cutting performance even with fine-stranded conductors thanks to specially designed, extremely sharp cutting blades
- ▶ Secure grip due to roughened handle

Characteristics

- Large cutting range
- Not suitable for cutting steel or steel wire

Technical data

Cutting range	max. 50 mm dia., e.g. 4 x 120 mm ² NYY
Length	710 mm
Weight	3 kg

Item	Part No.
Hand-operated cutting tool for Cu and Al cables to 50 mm dia.	K150

K 101/1 Hand-operated cutting tool for Al and Cu cables to 26 mm dia.



- ▶ Can be maintained on-site thanks to replaceable cutting heads
- ▶ Exceptional cutting performance even with fine-stranded conductors

Characteristics

- Two-hand operation
- Excellent leverage
- Not suitable for cutting steel or steel wire
- Safe working thanks to roughened handle

Technical data

Cutting range	e.g. 4 x 25 mm ² NYY, max. 26 mm dia.
Length	570 mm
Weight	1.8 kg

Item	Part No.
Hand-operated cutting tool for Cu and Al cables to 26 mm dia.	K1011

Accessories	Part No.
Replacement cutting head	K1011E



Cutting

Mechanical cutting tools

K 105/1 Hand-operated cutting tool for Al and Cu cables to 26 mm with telescopic handles dia.



- ▶ Compact dimensions with extending telescopic handles for easier carrying
- ▶ High cutting performance
- ▶ Also for fine-stranded conductors e.g. to DIN EN 60228 Cl. 5

Characteristics

- Two-hand operation
- Maintenance on-site due to replacement of cutting heads
- Safe working thanks to roughened handle
- Not suitable for cutting steel or steel wire

Technical data		
Cutting range	e.g. 4 x 25 mm ² NYY, max. 26 mm dia.	
Length	Stepless 350 - 520 mm	
Weight	1.4 kg	
Item	Part No.	
Hand-operated cutting tool for Al and Cu cables to 26 mm dia., length 350 - 520 mm continuous	K1051	
Accessories	Part No.	Page
Replacement cutting head	K1011E	

K 201/1 Hand-operated cutting tool for Al and Cu cables to 26 mm dia., length 570 mm



- ▶ 1000 V fully insulated to IEC 60900
- ▶ High cutting performance
- ▶ Also for fine-stranded conductors e.g. to DIN EN 60228 Cl. 5

Characteristics

- Two-hand operation
- Maintenance on-site due to replacement of cutting heads
- Not suitable for cutting steel or steel wire

Technical data		
Cutting range	max. 26 mm dia., e.g. 4 x 95 mm ² NYY	
Length	570 mm	
Weight	2 kg	
Item	Part No.	
Hand-operated cutting tool for Al and Cu cables to 26 mm dia., length 570 mm	K2011	
Accessories	Part No.	Page
Replacement cutting head	K1011E	



K 101/2 Hand-operated cutting tool for Al and Cu cables to 38 mm dia.



- ▶ Large cutting range
- ▶ Telescopic handles
- ▶ Also for fine-stranded conductors e.g. to DIN EN 60228 Cl. 5
- ▶ Can be maintained on-site thanks to replaceable cutting heads

Characteristics

- Not suitable for cutting steel or steel wire
- Safe working thanks to roughened handle

Technical data

Cutting range	max. 38 mm dia.
Length	930 mm
Weight	4.2 kg

Item	Part No.
Hand-operated cutting tool for Cu and Al cables to 38 mm dia.	K1012

Accessories	Part No.	Page
Replacement cutting head	K1012E	





THE LITTLE CUTTING EXPERT - BATTERY-POWERED HYDRAULIC CUTTING TOOL (10.8 V)

The Klauke mini is lightweight yet powerful. The high-quality shears cut with an opening width of 32 mm, the bolt cutters with a 12 mm opening width. Its practical dimensions make it especially suitable for confined areas.

Klauke mini

▶ Pure performance without frills

The Klauke mini concentrates on its core task: reliable cutting. Even without pressure sensor and display, the little expert does its job well - no fuss or quibble.

▶ Usage time at a glance

Read the charge level at any time directly from the powerful 10.8 V battery.

▶ All-round cutting

Cutting in confined areas? No problem with these cutting heads, which rotate through 360°.



EBS 8 ML / EBS 12 ML Battery powered hydraulic bolt cutter 8 mm dia. / 12 mm dia.



- ▶ For cutting cable channels, bolts and steel wire, medium-hard (e.g. ST 37)
- ▶ Slim cutting head - ideal when space is critical
- ▶ Powerful 10.8 V Li-Ion battery with charge status display

Characteristics

- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Comfortable and secure one-hand operation thanks to 2-component plastic housing with soft grips
- Effortless working thanks to low weight
- Simple and safe: Automatic retraction when operation is complete
- Maintenance display via LED

Technical data	
Cutting range	EBS8ML: max. 8 mm dia., EBS12ML: max. 12 mm dia.
Cutting force	EBS8ML: 15 kN, EBS12ML: 45 kN
Cutting time	EBS8ML: 2 s, EBS12ML: 4 s (depending on material thickness)
Number of cuts	ES8ML: 80 at silver steel 6 mm, EBS12ML: 105 at mild steel 10 mm
Battery voltage	10.8 V
Battery capacity	1.5 Ah, Li-Ion
Charging time	approx. 40 min.
Weight incl. battery	EBS8ML: 1.2 kg, EBS12ML: 1.8 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No.
Battery powered hydraulic bolt cutting tool 8 mm dia.	EBS8ML
Battery powered hydraulic bolt cutting tool 12 mm dia.	EBS12ML

Scope of supply	Part No.	Page
Battery 10.8 V / 1.5 Ah, Li-Ion (16.2 Wh)	RAML1	485
Charger for 10.8 V Li-Ion batteries, 230 V	LGML1	487
Plastic case	KKML	



Cutting

Battery-powered hydraulic cutting tools 10.8 V

ES 20 ML Battery powered hydraulic cutting tool 20 mm dia.



- ▶ For cutting Al/St conductors (ACSR) to DIN EN 50182, solid Al/Cu cables to DIN EN 60228, Class 1 and laminated copper bus bars
- ▶ Extremely robust design and lightweight
- ▶ Powerful 10.8 V Li-Ion battery technology with battery charge indicator

Characteristics

- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Comfortable and secure one-hand operation thanks to 2-component plastic housing with soft grips
- Effortless working thanks to low weight
- Simple and safe: Automatic retraction when operation is complete
- Maintenance display via LED

Technical data

Cutting range	Multi-stranded max. 20 mm dia. (depending on cable type)
Cutting force	23 kN
Cutting time	4 s to 6 s (depending on material thickness)
Number of cuts	approx. 160 for steel cable 8 mm
Battery voltage	10.8 V
Battery capacity	1.5 Ah, Li-Ion
Charging time	approx. 40 min.
Weight incl. battery	1.6 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No.	
Battery powered hydraulic cutting tool 20 mm dia.	ES20ML	
Scope of supply	Part No.	Page
Battery 10.8 V / 1.5 Ah, Li-Ion (16.2 Wh)	RAML1	485
Charger for 10.8 V Li-Ion batteries, 230 V	LGML1	487
Plastic case	KKML	
Accessories	Part No.	
Replacement blade	ES20E	

ES 32 ML / ES 32 F ML Battery powered hydraulic cutting tools 32 mm dia.



- ▶ Cuts multi-stranded copper and aluminium cables (ES 32 ML)
- ▶ Cuts fine and superfine stranded copper cables (ES 32 F ML)
- ▶ Slim cutting head - ideal when space is critical
- ▶ Powerful 10.8 V Li-Ion battery technology with battery charge indicator

Characteristics

- Open head, rotatable
- Electronic control and monitoring of operation
- Simple and safe: One-button operating concept for controlling all tool functions
- Comfortable and secure one-hand operation thanks to 2-component plastic housing with soft grips
- Effortless working thanks to low weight
- Simple and safe: Automatic retraction when operation is complete
- Maintenance display via LED

Technical data

Cutting range	max. 32 mm dia.
Cutting force	15 kN
Cutting time	8 s to 10 s (depending on material thickness)
Number of cuts	ES32ML: approx. 90 at 150 mm ² NYV, ES32FML: approx. 120 at H07V-K 185 mm ²
Battery voltage	10.8 V
Battery capacity	1.5 Ah, Li-Ion
Charging time	approx. 40 min.
Weight incl. battery	1.8 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No.	
Battery powered hydraulic cutting tool 32 mm dia.	ES32ML	
Battery powered hydraulic cutting tool 32 mm dia., superfine-stranded	ES32FML	
Scope of supply	Part No.	Page
Battery 10.8 V / 1.5 Ah, Li-Ion (16.2 Wh)	RAML1	485
Charger for 10.8 V Li-Ion batteries, 230 V	LGML1	487
Plastic case	KKML	
Accessories	Part No.	
Replacement blade set	ES32E	
Replacement blade set for fine and superfine stranded copper cables	ES32FE	

THE NEW STANDARD - KLAUKE NEXT GENERATION CUTTING TOOLS

Aspire to the new standard: Battery-powered hydraulic cutting tools from Klauke offer impressive power and durability. The tools effortlessly cut cross-sections up to 105mm, with open cutting head for better accessibility or closed cutting head for improved force transmission. Improved ergonomics with optimised centre of gravity makes work more convenient and faster. Also through the time-saving opening mechanism.



In brief

- ▶ Freely-selectable battery platform: with Bosch or Makita
- ▶ Proof of quality can be created via Bluetooth
- ▶ Ensure tool availability: Read the tool properties from the display or via the app
- ▶ Effortless operations thanks to modern, ergonomic design

Interested in Klauke Next Generation tools? Then take a look at our Multi universal tool on [Page 467 >>](#)

► **Making work easier**

Klauke cutting tools guarantee effortless operations: The “mini” impresses through its low weight and the pistol shape ensures a balanced centre of gravity

- Our compact “mini” is just perfect for confined areas
- The 2-stage hydraulic system allows you to work quickly thanks to fast feed and power stroke
- Save time with the innovative opening mechanism of the cutters. They open immediately after every cut.
- Extremely impressive and reliable: The one-button control concept for all tools



► **Latest developments for your everyday work**

Mini design - Pure cutting force: The ESGM45 and the ESM50 impress all along the line and for every application

- Cutting made simple thanks to a new, improved cutter geometry
- Burr-free cutting of wire mesh cable trays without any rework whatsoever thanks to the new wire mesh cable tray cutter

► **i-press® app**

Use the i-press® app to check and control your tool data on the go. Individual tool settings, such as the double-click function for increased user safety, help make your day-to-day work simpler and more reliable - just as you need it.

The i-press® app can be found at:
www.klauke.com/en/service/downloads/connectivity-software/



EBS 6 L GKS Battery powered hydraulic cable tray cutter 6 mm dia.



- ▶ No follow-up work required thanks to burr-free cutting
- ▶ Fast and efficient operations: The cut is made in less than 1 second
- ▶ Maintenance required only after 20.000 cuts (renew hydraulic shock absorber system)
- ▶ Always cut ready due to autonomous replaceable blades

Characteristics

- Open head, rotatable
- Electronic control and monitoring of operation
- Simple and safe: One-button operating concept for controlling all tool functions
- Comfortable and secure one-hand operation thanks to 2-component plastic housing with soft grips
- Balanced centre of gravity for easy handling and effortless operations
- LED for work area illumination
- Powerful 18 V Li-Ion battery - high capacity, short charging time
- High-performance motor for maximum operating speed
- Energy saving function with motor cut-out after successful operation
- Quick motor stop for high user safety
- Simple and safe: Automatic retraction when operation is complete
- Manual retract as required
- Multifunction LED for maintenance display and charge status display of the battery
- Environmentally-friendly hydraulic oil, quickly biodegradable

Technical data

Cutting range	max. 6 mm (VA)
Cutting force	24 kN
Cutting time	< 1 s
Number of cuts	approx. 300 at 6 mm VA, 360 at grid channel 5 mm
Battery voltage	18 V
Battery capacity	1.5 Ah
Charging time	15 min.
Weight incl. battery	1.9 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No.	
Battery powered hydraulic cable tray cutter 6 mm dia.	EBS6LGKS	
Scope of supply	Part No.	Page
Makita battery 18 V / 1.5 Ah, Li-Ion	RAL1	483
Makita quick-charger for 18 V Li-Ion battery	LGL1	486
Plastic case	KK50L	
Accessories	Part No.	Page
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)	RAL2	483
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40	484
18 V mains adapter for 230 V Voltage	NG2230	485

EBS 8 Battery powered hydraulic bolt cutter 8 mm dia.

**NEXT
GENERATION**



- ▶ For cutting cable trays, bolts and medium-hard steel wire (e.g. ST 37)
- ▶ Narrow crimping head - Ideal in confined areas
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- LED display for showing tool data
- Always ready-to-use thanks to battery charge and service display

Suitable for

- Cable trays, bolts, medium-hard steel wire

Technical data			
Cutting range	max. 8 mm dia.		
Cutting force	15 kN		
Cutting time	1 s (depending on material thickness)		
Charging time	15 min.		
Weight incl. battery	1.65 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part-No. Bosch	Part-No. Makita	
Battery powered hydraulic bolt cutting tool 8 mm dia.	EBS8CFB	EBS8CFM	
Scope of supply			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	KK50NG	KK50NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483



EBS 12 Battery powered hydraulic bolt cutter 12 mm dia.

**NEXT
GENERATION**



- ▶ For cutting cable trays, bolts and medium-hard steel wire (e.g. ST 37)
- ▶ Slim cutting head - ideal when space is critical
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- LED display for showing tool data
- Always ready-to-use thanks to battery charge and service display

Suitable for

- Cable trays, bolts, medium-hard steel wire

Technical data			
Cutting range	max. 12 mm dia.		
Cutting force	45 kN		
Cutting time	2 s (depending on cable size)		
Charging time	15 min.		
Weight incl. battery	2.1 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic bolt cutting tool 12 mm dia.	EBS12CFB	EBS12CFM	
Scope of supply			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	484	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	486	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	KK50NG	KK50NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	485	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483

ES 20 Battery powered hydraulic cutting tool 20 mm dia.

**NEXT
GENERATION**



- ▶ For cutting Al/St conductors (ACSR) to DIN EN 50182, solid Al/Cu cables to DIN EN 60228, Class 1 and laminated copper bus bars
- ▶ Extremely robust design and lightweight
- ▶ Slim cutting head - ideal when space is critical
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

Suitable for

- Al/St wire (ACSR)

Technical data			
Cutting range	max. 18 mm dia. (depending on cable type)		
Cutting force	23 kN		
Cutting time	2 s to 4 s (depending on cable type)		
Charging time	15 min.		
Weight incl. battery	2.0 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 20 mm dia.	ES20CFB	ES20CFM	
Scope of supply			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	KK50NG	KK50NG	
Accessories			Page
Replacement blade	ES20E	ES20E	
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483
Variants			Page
L-BOXX with battery powered cutting tool ES20CFB	LBOXXES20CFB		203
L-BOXX with battery powered cutting tool ES20CFM			LBOXXES20CFM 203

Battery powered hydraulic cutting tool with remote control 20 mm and 32 mm dia.

**NEXT
GENERATION**



ES 20 RMC

ES 32 RMC

BTC2



- ▶ Tool with remote control, e.g. for telescopic rods
- ▶ **ES20RMC:** For cutting Al/St conductors (ACSR) to DIN EN 50182, solid Al/Cu cables to DIN EN 60228, Class 1 and laminated copper bus bars
- ▶ **ES32RMC:** Cuts multi-stranded Al/Cu cables Class 2
- ▶ Extremely robust design and lightweight
- ▶ Slim cutting head - ideal when space is critical
- ▶ All tool data in view thanks to display and i-press® app
- ▶ Powerful 18 V Li-Ion battery - high capacity, short charging time
- ▶ Can also be used as a normal cable cutter when the Hotstick holder is not attached

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless operations due to balanced centre of gravity, even when used with a telescopic rod
- LED for work area illumination
- Quick motor stop for high user safety
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Energy saving: Motor stops when the operation is complete
- Always ready-to-use thanks to battery charge and service display
- Simple one-hand operation via remote control

ES 20 RMC suitable for

- Al/St wire (ACSR)
- Solid Al/Cu cables to DIN EN 60228 Class 1
- Laminated Cu bus-bars

ES 32 RMC suitable for

- Multi-stranded Al/Cu cable Class 2

Additional information

- Part number suffix for tools without battery and charger „0000“



Scope of supply for ES 20 RMC

Technical data			
Head type	Cutter open		
Cutting range	max. Ø 20 mm / max. Ø 32 mm		
Cutting time	2 s to 8 s (depending on material thickness)		
Charging time	15 min.		
Weight incl. battery	2.0 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 20 mm dia.	ES20RMCCFB		
Battery powered hydraulic cutting tool 20 mm dia.		ES20RMCCFM	
Battery powered hydraulic cutting tool 32 mm dia.	ES32RMCCFB		
Battery powered hydraulic cutting tool 32 mm dia.		ES32RMCCFM	
Scope of supply			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Bluetooth remote control	BTC2	BTC2	
Accessories			Page
Bosch battery 18 V / 4.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Replacement blade set for ES 20 RMC	ES20E	ES20E	
Replacement blade set for ES 32 RMC	ES32E	ES32E	

Battery powered hydraulic cutting tool with remote control 65 and 105 mm dia.

**NEXT
GENERATION**



ESG105RMCCFM



- ▶ Remote control tool for safe distance when cutting
- ▶ Real end position detection that is unique worldwide
- ▶ For cutting copper and aluminum cables according to DIN EN 60228 class 1 and 2, also with light steel armouring
- ▶ Cutting forces: ESG65RMC: 60 kN, ESG105RMC: 120 kN for extra large cutting areas
- ▶ Can also be used manually as usual

Characteristics

- Acoustic and visual notification on the remote control that the cut has been completed
- Very long range up to 70 m
- Convenient one-hand control via the remote control
- Closed head, rotatable
- Quick motor stop for high user safety
- Retraction stop for efficient operations
- Energy saving: the motor stops after the cut has been completed
- Always in view: charge status and service display
- All data can be easily read via Bluetooth

Suitable for

- Cu and Al cables even armoured cable

Technical data	ESG65RMCCFM	ESG105RMCCFM	
Head type	Guillotine closed	Guillotine closed	
Cutting range	max. 65 mm dia., e.g. NYCWY 4 x 240 SM/120	max. 105 mm dia., e.g. NYCWY 4 x 240 SM/120	
Cutting time	2 s bis 13 s (depending on cable type)	2 s bis 13 s (depending on cable type)	
Charging time	36 min.	36 min.	
Weight incl. battery	6.0 kg	10.5 kg	
Ambient temperature	-10 °C up to +40 °C	-10 °C up to +40 °C	
Item	Part No.	Part No.	
Battery powered hydraulic cutting tool 65 mm dia.	ESG65RMCCFM		
Battery powered hydraulic cutting tool 105 mm dia.	ESG105RMCCFM		
Scope of supply			Page
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40	RAL40	484
Makita quick charger for 18 V Li-Ion battery	LGL1	LGL1	486
Bluetooth remote control	BTC3	BTC3	
Accessories			Page
Makita battery 18 V / 4,0 Ah, Li-Ion	RAL40	RAL40	484
Bluetooth remote control	BTC3	BTC3	



Cutting

Battery-powered hydraulic cutting tools 18 V

ESG 25 Battery powered hydraulic cutting tool 25 mm dia.

**NEXT
GENERATION**



- ▶ For cutting Al/St cables (ACSR), round materials (Cu, Al, St) as well as armoured cables, solid structural steel and stay wire
- ▶ High-performance cutting characteristics for highly-flexible conductors and wire cables
- ▶ Extremely robust design and lightweight
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head, flip top style, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

Suitable for

- Al/St wire (ACSR), Cu, Al, St and armoured cables, construction steel, stay wire

Technical data			
Head type	Guillotine closed		
Cutting range	max. 25 mm dia.		
Cutting force	60 kN		
Cutting time	Depending on material		
Charging time	15 min.		
Weight incl. battery	2.0 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 25 mm dia.	ESG25CFB	ESG25CFM	
Scope of supply			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	KK50NG	KK50NG	
Accessories			Page
Inner moving blade	ESG252ES		
Outer fixed blade	ESG252EF		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483
Replacement blade set	ESG252ESET	ESG252ESET	

ESM 25 Battery powered hydraulic cutting tool 25 mm dia.

**NEXT
GENERATION**



- ▶ For cutting Al/St cables (ACSR), round materials (Cu, Al) as well as armoured cables and stay wire
- ▶ Protected cutting mechanism through plastic housing
- ▶ All tool data in view thanks to display and i-press® app
- ▶ Quick-change cutting blades

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

suitable for

- Open wires (ACSR, Aldrey), stay wires and high-tensile stay wires

Technical data			
Head type	Cutter open		
Cutting range	Open wire (ACSR, Aldrey) up to Ø 25 mm, stay wires up to Ø 12 mm		
Cutting force	67 kN		
Cutting time	8 s up to 10 s (depending on material thickness)		
Charging time	15 min.		
Weight incl. battery	3.0 kg		
Ambient temperature	-10 °C up to +40		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 25 mm dia.	ESM25CFB	ESM25CFM	
Scope of supply			Page
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Plastic case	KK50NG	KK50NG	
Accessory			
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Replacement blade set	ESM25ESET	ESM25ESET	



Cutting

Battery-powered hydraulic cutting tools 18 V

ES 32 Battery powered hydraulic cutting tool 32 mm dia.

**NEXT
GENERATION**



- ▶ Slim cutting head - ideal when space is critical
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

Suitable for

- Stranded Cu and Al cables

Technical data	
Head type	Cutter open
Cutting range	max. 32 mm dia.
Cutting force	15 kN
Cutting time	8 s to 10 s (depending on cable type)
Charging time	15 min.
Weight incl. battery	2.0 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic cutting tool 32 mm dia.	ES32CFB	ES32CFM

Scope of supply		Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	486
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1 483
Makita quick-charger for 18 V Li-Ion battery		LGL1 486
Plastic case 450 x 370 x 105 mm	KK50NG	KK50NG

Accessories		Page
Replacement blade set	ES32E	
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	485
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2 483

Variants		Page
L-BOXX with battery powered cutting tool ES32CFB	LBOXXES32CFB	203
L-BOXX with battery powered cutting tool ES32CFM		LBOXXES32CFM 203

ES 32 F Battery powered hydraulic cutting tool 32 mm dia. for fine and superfine stranded copper cable



- ▶ Cuts fine and superfine stranded copper cables
- ▶ Slim cutting head - ideal when space is critical
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

Suitable for

- Fine and superfine stranded copper cables

Technical data			
Head type	Cutter open		
Cutting range	max. 32 mm dia.		
Cutting force	15 kN		
Cutting time	8 s to 10 s (depending on material thickness)		
Charging time	15 min.		
Weight incl. battery	2.0 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 32 mm dia., superfine-stranded	ES32FCFB	ES32FCFM	
Scope of supply			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	KK50NG	KK50NG	
Accessories			Page
Replacement blade set for fine and superfine stranded copper cables		ES32FE	
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483
Variants			Page
L-BOXX with battery powered cutting tool ES32FCFB	LBOXXES32FCFB		203
L-BOXX with battery powered cutting tool ES32FCFM		LBOXXES32FCFM	203



Cutting

Battery-powered hydraulic cutting tools 18 V

ESM 35 Battery powered hydraulic cutting tool 35 mm dia. for copper and aluminium cable

**NEXT
GENERATION**



- ▶ Protected cutting mechanism through plastic housing
- ▶ For cutting copper and aluminum cables of all classes of conductor
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

suitable for

- For cutting copper and aluminum cables of all classes of conductor



Technical data			
Head type	Cutter open		
Cutting range	dia. max. 35 mm		
Cutting force	25 kN		
Cutting time	4 s up to 6 s (depending on material thickness)		
Charging time	15 min.		
Weight incl. battery	2.9 kg		
Ambient temperature	-10 °C up to +40		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 25 mm dia.	ESM35CFB	ESM35CFM	
Scope of supply			Page
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Plastic case	KK50NG	KK50NG	
Accessory			Page
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485

ESGM 45 Battery powered hydraulic cutting tool 45 mm dia.

**NEXT
GENERATION**



- ▶ For cutting Al/St cables (ACSR), round materials (Cu, Al, St) as well as armoured cables, solid structural steel and fine-stranded copper cables
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head with bolt interlock, rotatable, flip top style
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations

Suitable for

- Cu and Al cables, Al/St wires (ACSR)

Technical data			
Head type	Guillotine closed		
Cutting range	max. 45 mm dia.		
Cutting force	70 kN		
Cutting time	8 s to 10 s (depending on material thickness)		
Charging time	15 min.		
Weight incl. battery	4.6 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 45 mm dia.	ESGM45CFB	ESGM45CFM	
Scope of supply			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	KKESGM45NG	KKESGM45NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483

SPECIALIST FOR ARMOURED CABLE + CONSTRUCTION STEEL

Thanks to its closed and rotating head, the ESGM45 is the specialist for cutting ACSR ropes, round materials (Cu, Al, St), and also armoured cable and solid construction steel, for instance. Even fine-stranded and highly-flexible conductors and wire ropes up to 45 mm can be precisely cut. As a special highlight, the tool has the innovative opening mechanism, which facilitates safe and fast operations. If an unwelcome object happens to be located between the cutters, all you need to do is release the control button. The two cutting blades then move apart straight away. This mechanism also makes sure that the tool is quickly ready to use again after a completed cut.

ESG 45 Battery powered hydraulic cutting tool 45 mm dia.

**NEXT
GENERATION**



- ▶ High cutting force cuts armoured copper and aluminium cables and Al/St cables (ACSR)
- ▶ Also suitable for round material made of Al, Cu and steel
- ▶ Extremely robust design and lightweight
- ▶ Saves time with multiple cuts thanks to innovative opening mechanism
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head with bolt interlock, rotatable, flip top style
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

Suitable for

- Armoured Cu and Al cables, Al/St wires

Technical data			
Head type	Guillotine closed		
Cutting range	max. 45 mm dia.		
Cutting force	70 kN		
Cutting time	8 s to 18 s (depending on material)		
Charging time	45 min.		
Weight incl. battery	5.9 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 45 mm dia.	ESG45CFB	ESG45CFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	KK120NG	KK120NG	
Accessories			Page
Inner moving blade		ESG45ES1	
Outer fixed blade		ESG45EF	
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484



ESM 50 Battery powered hydraulic cutting tool 50 mm dia. for copper and aluminium cable



- ▶ For cutting copper and aluminium cables (fine-stranded also)
- ▶ Very high cutting capacity thanks to innovative cutting geometry
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

Suitable for

- Cu and Al cables (multi and fine stranded) even armoured cable

Technical data			
Head type	Cutter open		
Cutting range	max. 54 mm dia.		
Cutting force	38 kN		
Cutting time	8 s up to 10 s (depending on material thickness)		
Charging time	15 min.		
Weight incl. battery	3.0 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 50 mm dia.	ESM50CFB	ESM50CFM	
Scope of supply			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	KK50NG	KK50NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483

A GENUINE ALL-ROUNDER!

One tool for (almost) all situations! Both multi-stranded and fine-stranded (including armoured) cables are reliably cut. So you need only require one tool for a range of applications. Thanks to new cutting geometry, the annoying jamming of strands in the cutting blades is also a thing of the past.

ESG 55 Battery powered hydraulic cutting tool 55 mm dia.

**NEXT
GENERATION**



- ▶ High cutting force cuts armoured copper and aluminium cables and Al/St cables (ACSR)
- ▶ Also suitable for round material made of Al, Cu and steel
- ▶ 120 kN cutting force for maximum output
- ▶ Saves time with multiple cuts thanks to innovative opening mechanism

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head with bolt interlock, rotatable, flip top style
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

Suitable for

- Armoured Cu and Al cables, Al/St wires



Technical data			
Head type	Guillotine closed		
Cutting range	max. 55 mm dia.		
Cutting force	120 kN		
Cutting time	10 s to 19 s (depending on material thickness)		
Charging time	45 min.		
Weight incl. battery	8.2 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 55 mm dia.	ESG55CFB	ESG55CFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	KK120NG	KK120NG	
Accessories			Page
Inner moving blade		ESG55ES	
Outer fixed blade		ESG55EF	
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484

ES 65 Battery powered hydraulic cutting tool 65 mm dia.



- ▶ Cuts copper and aluminium cables with lightweight steel armouring (depending on cable type)
- ▶ Also suitable for fine-stranded cables (depending on cable type)
- ▶ Saves time with multiple cuts thanks to innovative opening mechanism
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- All data can be easily read via Bluetooth
- Choose your battery system: Bosch or Makita
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

Suitable for

- Cu/Al cable

Technical data			
Head type	Cutter open		
Cutting range	max. 65 mm dia.		
Cutting force	40 kN		
Cutting time	Depending on material thickness		
Charging time	45 min.		
Weight incl. battery	6.3 kg		
Ambient temperature	-12 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 65 mm dia.	ES65CFB	ES65CFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	KK120NG	KK120NG	
Accessories			Page
Replacement blade	ES65E		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484

ESG 85 Battery powered hydraulic cutting tool 85 mm dia.

**NEXT
GENERATION**



- ▶ Cuts copper and aluminium cables with lightweight steel armouring (depending on cable type)
- ▶ Saves time with multiple cuts thanks to innovative opening mechanism
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Larger cutting area, optimum force transmission due to closed head shape
- Simple and safe: One-button operating concept for controlling all tool functions
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

Suitable for

- lightly armoured Cu and Al cables



Technical data			
Head type	Guillotine closed		
Cutting range	max. 85 mm dia.		
Cutting force	60 kN		
Cutting time	Depending on material thickness		
Charging time	45 min.		
Weight incl. battery	6.8 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 85 mm dia.	ESG85CFB	ESG85CFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	KK120NG	KK120NG	
Accessories			Page
Inner moving blade		ESG85ES1	
Outer fixed blade		ESG85EF1	
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484

ES 85 Battery powered hydraulic cutting tool 85 mm dia.

**NEXT
GENERATION**



- ▶ Cuts copper and aluminium cables with lightweight steel armoring (depending on cable type)
- ▶ Also suitable for fine-stranded cables (depending on cable type)
- ▶ Saves time with multiple cuts thanks to innovative opening mechanism
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

Suitable for

- Cu and Al cable

Technical data			
Head type	Cutter open		
Cutting range	max. 85 mm dia.		
Cutting force	30 kN		
Cutting time	Depending on material thickness		
Charging time	45 min.		
Weight incl. battery	7.2 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 85 mm dia.	ES85CFB	ES85CFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	485	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	486	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	KK120NG	KK120NG	
Accessories			Page
Replacement blade	ES85E		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	485	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484

ESG 105 Battery powered hydraulic cutting tool 105 mm dia.

**NEXT
GENERATION**



- ▶ Cuts copper and aluminium cables with armoring
- ▶ 120 kN cutting force for extremely wide cutting range up to 105 mm dia.
- ▶ Remarkably lightweight for tools in this performance class
- ▶ Saves time with multiple cuts thanks to innovative opening mechanism
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head with bolt interlock, rotatable, flip top style
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

Suitable for

- lightly armoured Cu and Al cables



Technical data			
Head type	Guillotine closed		
Cutting range	max. 105 mm dia.		
Cutting force	120 kN		
Cutting time	Depending on cable type		
Charging time	45 min.		
Weight incl. battery	10.7 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 105 mm dia.	ESG105CFB	ESG105CFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita quick-charger for 18 V Li-Ion battery		RAL40	484
Plastic case 450 x 370 x 105 mm		LGL1	486
Makita battery 18 V / 4.0 Ah, Li-Ion	MK105NG	MK105NG	
Accessories			Page
Inner moving blade	ESG105ES		
Outer fixed blade	ESG105EF		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484

ES 105 Battery powered hydraulic cutting tool 105 mm dia.

**NEXT
GENERATION**



- ▶ Cuts copper and aluminium cables with lightweight steel armouring and fine-stranded conductors (depending on cable type)
- ▶ Extremely large cutting area to 105 mm dia.
- ▶ Saves time with multiple cuts thanks to innovative opening mechanism
- ▶ All tool data in view thanks to display and i-press® app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

Suitable for

- Cu and Al cable

Technical data			
Head type	Cutter open		
Cutting range	max. 105 mm dia.		
Cutting force	74 kN		
Cutting time	Depending on cable type		
Charging time	45 min.		
Weight incl. battery	9.6 kg		
Ambient temperature	-10 °C up to +40 °C		
Item	Part No. Bosch	Part No. Makita	
Battery powered hydraulic cutting tool 105 mm dia.	ES105CFB	ES105CFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	MK105NG	MK105NG	
Accessories			Page
Replacement blade	ES105E		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484



ALWAYS IN POSITION - 2 STAGES FOR MORE POWER

We promise you: Our cutting tools are powerful. The 2-stage hydraulic system uses its power to the full, the automatic retraction returns the cutter to the original position once the cut is made. Made from aluminium, it feels light in the hand.

As we said: a powerful tool!



► Comfortable all day long

Numerous cuts in succession are tiring. With the hand-operated hydraulic cutting tools, the housing and pump lever are therefore made from aluminium. The pump lever is in exactly the correct position, and so the pump movement requires only a small space - compared to a mechanical tool. Work better with the convenience of Klauke.

- Effortless operations due to the ergonomic design and low weight
- Work faster with the innovative 2-stage hydraulic system for fast feed and power stroke with counter pressure

► Adapts

All hand-operated hydraulic cutting tools have press heads that rotate through 360°. So you can work even in confined areas with flexible settings.

- Rotating heads for work in confined areas
- Extremely robust cutting heads

► Save yourself the return stroke

Your force acts in just one direction: Forwards. When the cutting process is complete, the cutting blades retract into the home position via the automatic retraction function. You save on the return path.

- Automatic retraction returns the cutting blades to the home position after the cut is made
- More reliability and shorter intervals between cutting processes
- Can be used up to a diameter of 85 mm
- Cutting force up to 120 kN
- Bolt locking of cutting blade

HSG 45 Hand-operated hydraulic cutting tool 45 mm dia.



- ▶ Cuts armoured copper and aluminium cables and Al/St cables (ACSR)
- ▶ Also suitable for round material made of Al, Cu and steel
- ▶ Extremely sturdy design

Characteristics

- Closed head with bolt interlock, 360° rotation when not pressurised
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete

Technical data		
Cutting range	max. 45 mm dia.	
Cutting force	60 kN	
Length	560 mm	
Weight	4.9 kg	
Ambient temperature	-20 °C up to +40 °C	
Item	Part No.	
Hand-operated hydraulic cutting tool 45 mm dia.	HSG45	
Scope of supply	Part No.	Page
Steel carrying case for HSG 45 or HSG 50	MK50	
Accessories		Page
Outer fixed blade	ESG45EF	
Inner moving blade	ESG45ES1	



HSG 55 Hand-operated hydraulic cutting tool 55 mm dia.



- ▶ Cuts armoured copper and aluminium cables and Al/St cables (ACSR)
- ▶ Also suitable for round material made of Al, Cu and steel
- ▶ Maximum performance thanks to 120 kN cutting force

Characteristics

- Closed head with bolt interlock, 360° rotation when not pressurised
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete

Technical data		
Cutting range	max. 55 mm dia.	
Cutting force	120 kN	
Length	approx. 605 mm	
Weight	7.3 kg	
Ambient temperature	-20 °C up to +40 °C	
Item	Part No.	
Hand-operated hydraulic cutting tool 55 mm dia.	HSG55	
Scope of supply	Part No.	Page
Steel carrying case for HSG 55	MKHSG55	
Accessories	Page	
Outer fixed blade	ESG55EF	
Inner moving blade	ESG55ES	

HSG 85/2 Hand-operated hydraulic cutting tool 85 mm dia.



- ▶ Cuts copper and aluminium cables with lightweight steel armouring (depending on cable type)
- ▶ Large cutting range
- ▶ High user safety owed to cutting head with bolt interlock

Characteristics

- Closed head with bolt interlock, 360° rotation when not pressurised
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete










Technical data		
Cutting range	max. 85 mm dia.	
Cutting force	60 kN	
Length	approx. 677 mm	
Weight	5.9 kg	
Ambient temperature	-20 °C up to +40 °C	
Item	Part No.	
Hand-operated hydraulic cutting tool 85 mm dia.	HSG852	
Scope of supply	Part No.	Page
Steel carrying case for HSG 85	MK852	
Accessories	Page	
Outer fixed blade	ESG85EF1	
Inner moving blade	ESG85ES1	

EXPAND YOUR APPLICATIONS

The correct cutting head creates a host of potentials. Get your pump ready for every application. Klauke cutting heads can be flexibly combined with Klauke system pumps (see page 484) to offer you an individual solution for every challenge.



► Improved cutting using the right cutting heads.

Tool		Design		Opening width	Cutting force kN	Application				Feature
		Open head	Closed head			Cu / Al*	Al / St (ACSR)	Cu / Al, solid	Steel, solid	
SDG 45			✓	45	60	✓	✓	✓	✓	Especially for Al/St wires to 45 mm dia. and St, solid.
SDG 55			✓	55	120	✓	✓	✓	✓	With 120 kN cutting force, for all cables and Al/St ropes up to 55 mm diameter.
SDK 65		✓		65	42	✓				Ideal for cutting earth cables up to 65 mm diameter.
SDG 85/2			✓	85	60	✓				For cutting copper and aluminium cables up to 85 mm diameter.
SDK 85		✓		85	30	✓				For cutting telecommunication and earth cables up to 85 mm diameter.
SDG 105			✓	105	120	✓		✓		Very wide cutting range up to 105 mm - also for armoured cables diameter.
SDK 105		✓		105	74	✓				Also for fine stranded cables up to 105 mm diameter.
SDK 120		✓		120	55	✓				Extremely broad cutting range up to 120 mm diameter.

* This column also includes Cu / Al multi-stranded and Cu / Al with sheet metal and wire armouring.

** The exact cutting performance depends on the type of cable or wire.



SDG 45 Hydraulic cutting head 45 mm dia.



- ▶ High cutting force cuts armoured copper and aluminium cables and Al/St cables (ACSR)
- ▶ Also suitable for round material made of Al, Cu and steel

Characteristics

- Closed head with bolt interlock, flip open jaws
- Head with quick coupling, 360° rotatable
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Technical data

Cutting range	max. 45 mm dia.
Cutting force	60 kN
Operating pressure	max. 700 bar
Length	340 mm
Weight	3.8 kg

Item	Part No.	
Hydraulic cutting head 45 mm dia.	SDG45	
Scope of supply	Part No.	Page
Carrying bag	TT2	194
Accessories		Page
Inner fixed blade	ESG45ES1	
Outer moving blade	ESG45EF	

SDG 55 Hydraulic cutting head 55 mm dia.



- ▶ High cutting force cuts armoured copper and aluminium cables and Al/St cables (ACSR)
- ▶ Also suitable for round material made of Al, Cu and steel
- ▶ 120 kN cutting force for maximum output

Characteristics

- Closed head with bolt interlock, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results
- Ergonomic handling through grip

Technical data		
Cutting range	max. 55 mm dia.	
Cutting force	120 kN	
Operating pressure	max. 700 bar	
Length	380 mm	
Weight	5.6 kg	
Item	Part No.	
Hydraulic cutting head 55 mm dia.	SDG55	
Scope of supply	Part No.	Page
Carrying bag	TT2	194
Accessories	Page	
Inner moving blade	ESG55ES	
Outer fixed blade	ESG55EF	

SDK 65 Hydraulic cutting head 65 mm dia.



- ▶ Cuts copper and aluminium cables with lightweight steel armoring (depending on cable type)
- ▶ Also suitable for fine-stranded cables (depending on cable type)
- ▶ Safe operations due to high ground stability by double handles
- ▶ Improved cutting characteristics due to new cutting geometry

Characteristics

- Open head with quick coupling, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Technical data		
Cutting range	max. 65 mm dia.	
Cutting force	42 kN	
Operating pressure	max. 700 bar	
Length	425 mm	
Weight	4.7 kg	
Item	Part No.	
Hydraulic cutting head 65 mm dia.	SDK65	
Scope of supply	Part No.	Page
Carrying bag	TT2	194
Accessories	Page	
Replacement blade	ES65E	



Cutting

Hydraulic cutting heads and cutting systems

SDG 85/2 Hydraulic cutting head 85 mm dia.



- ▶ High user safety owed to cutting head with bolt interlock
- ▶ Exceptionally light and compact design
- ▶ Cuts copper and aluminium cables with lightweight steel armouring (depending on cable type)

Characteristics

- Closed head with bolt interlock, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results
- Simple handling

Technical data		
Cutting range	max. 85 mm dia.	
Cutting force	60 kN	
Operating pressure	max. 700 bar	
Length	445 mm	
Weight	4.3 kg	
Item	Part No.	
Hydraulic cutting head 85 mm dia.	SDG852	
Scope of supply	Part No.	Page
Carrying bag	TT2	194
Accessories	Page	
Inner moving blade	ESG85ES1	
Outer fixed blade	ESG85EF1	

SDK 85 Hydraulic cutting head 85 mm dia.



- ▶ Cuts copper and aluminium cables with lightweight steel armouring (depending on cable type)
- ▶ Suitable for fine-stranded cable and telecommunication cable (depending on cable type)
- ▶ Safe operations due to high ground stability by double handles
- ▶ Improved cutting characteristics due to new cutting geometry

Characteristics

- Open head with quick coupling, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results
- Uniform cut by knife guide

Technical data		
Cutting range	max. 85 mm dia.	
Cutting force	30 kN	
Operating pressure	max. 700 bar	
Length	450 mm	
Weight	5.2 kg	
Item	Part No.	
Hydraulic cutting head 85 mm dia.	SDK85	
Scope of supply	Part No.	Page
Carrying bag	TT2	194
Accessories	Page	
Replacement blade	ES85E	

SDG 105 Hydraulic cutting head 105 mm dia.



- ▶ Cuts copper and aluminium cables with armouring
- ▶ 120 kN cutting force for extremely wide cutting range up to 105 mm dia.

Characteristics

- Closed head with bolt interlock, 360° rotation when not pressurised
- Compact design permits cutting in confined areas
- Simple handling
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Technical data		
Cutting range	max. 105 mm dia.	
Cutting force	120 kN	
Operating pressure	max. 700 bar	
Length	432 mm	
Weight	7.7 kg	
Item	Part No.	
Hydraulic cutting head 105 mm dia.	SDG105	
Scope of supply	Part No.	Page
Carrying bag	TT2	194
Accessories	Page	
Inner moving blade	ESG105ES	
Outer fixed blade	ESG105EF	

SDK 105 Hydraulic cutting head 105 mm dia.



- ▶ Cuts copper and aluminium cables with lightweight steel armouring (depending on cable type)
- ▶ Extremely wide cutting range up to 105 mm dia., also for fine-stranded cables (depending on cable type)
- ▶ Safe operations due to high ground stability by double handles

Characteristics

- Open head with quick coupling, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results
- High stability due to double grip

Technical data		
Cutting range	max. 105 mm dia.	
Cutting force	74 kN	
Operating pressure	max. 700 bar	
Length	510 mm	
Weight	7.7 kg	
Item	Part No.	
Hydraulic cutting head 105 mm dia.	SDK105	
Scope of supply	Part No.	Page
Carrying bag	TT4	194
Accessories	Page	
Replacement blade	ES105E	



Cutting

Hydraulic cutting heads and cutting systems

SDK 120 Hydraulic cutting head 120 mm dia.



- ▶ Cuts copper and aluminium cables with lightweight steel armouring (depending on cable type)
- ▶ Extremely wide cutting range up to 120 mm dia., also for fine-stranded cables (depending on cable type)
- ▶ Exceptionally light and compact design
- ▶ Safe operations due to high ground stability by double handles

Characteristics

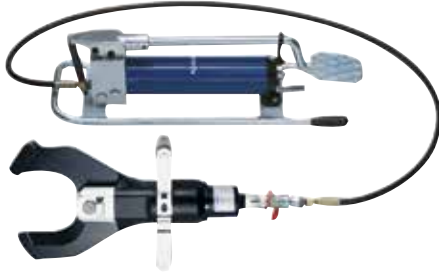
- Open head with quick coupling, 360° rotation when not pressurised
- High stability due to double grip
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Technical data

Cutting range	max. 120 mm dia.
Cutting force	55 kN
Operating pressure	max. 700 bar
Length	538 mm
Weight	8.7 kg

Item	Part No.	
Hydraulic cutting head 120 mm dia.	SDK120	
Scope of supply	Part No.	Page
Carrying bag	TT4	194
Accessories		Page
Replacement blade	ES120E	

AS 105 FHP / AS 120 FHP Hydraulic cutting tools for foot pump 105 and 120 mm dia.



- ▶ Cuts copper and aluminium cables with lightweight steel armouring (depending on cable type)
- ▶ Suitable for fine-stranded cable and telecommunication cable
- ▶ Safe operations due to high ground stability by double handles
- ▶ Wide cutting range also for fine-stranded cables

Characteristics

- Foot pump with two-stage hydraulics
- Open head with quick coupling, 360° rotation when not pressurised
- Manual retract as required
- Hydraulic hose, 2 m

Technical data

Cutting range	AS 105 FHP: max. 105 mm dia., AS120FHP: max. 120 mm dia.
Cutting force	AS105FHP: 74 kN, AS120FHP: 55 kN
Operating pressure	max. 700 bar
Weight	AS105FHP: 19.7 kg, AS120FHP: 20.7 kg

Item	Part No.	
Hydraulic cutting tool with foot pump 105 mm dia.	AS105FHP	
Hydraulic cutting tool with foot pump 120 mm dia.	AS120FHP	
Scope of supply	Part No.	Page
Hydraulic hose, 2 m	HS22	489
Steel carrying case	MKU	194
Accessories	Part No.	Page
Replacement blade	ES105E	
Replacement blade	ES120E	
Hydraulic hose, 3 m	HS23	489
Hydraulic hose, 4 m	HS24	489
Hydraulic hose, 5 m	HS25	489
Hydraulic hose, 6 m	HS26	489
Hydraulic hose, 8 m	HS28	489
Hydraulic hose, 10 m	HS210	489



5 PROFILES FOR SPECIAL CUTTING TOOLS

For challenging operations in plant construction and panel building, we use the Greenlee brand of tools. Built compact, the high-quality devices perform all the functions you need.



► DIN profile rails

So you retain the profile as you cut:
DIN profile rail cutter from Greenlee.

- Burr-free cutting to length and punching of all common DIN profiles
- Hand lever with optimum force transmission
- High-quality cutting blades with hardly any wear
- Integrated locating holes simplifies mounting on the workbench
- Easily replaceable cutting plate cassette

► Cutting values

Work precisely with our wiring conduit cutter.

- For halogen-free cable conduit up to 125 mm wide
- Maintenance-free mechanism
- Measuring rule enables precise cutting to length
- High level of operator safety while working due to fully-covered cutting blades

► Always on the right track: Wiring conduit cutter

Everything fits well, from the very first setting. The measuring cutter simplifies precision cutting to length. The cutting blades are covered for safety. They cut halogen-free cable conduit up to 125 mm wide as accurately as you want. High-quality

materials and optimised processing ensure safety and reliability: The cutting blades are practically wear-free, the cutting mechanism is entirely maintenance-free. No worries about these tools. You concentrate fully on the task.

DIN profile conductor cutting and punching tool



- ▶ For burr-free cutting and punching
- ▶ Less effort needed
- ▶ Includes die plate holder with 5 profiles

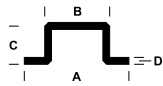
Suitable for

- Punches vertical and horizontal mounting holes 6.4 x 12.0 mm
- With holes for workbench assembly

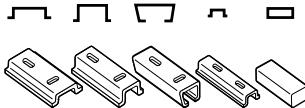
Additional information

- Special-cut plate on request

Item	Part No.
DIN profile conductor cutting and punching tool	50115413



A - 35.0 mm	A - 35.0 mm	A - 34.0 mm	A - 15.0 mm	A - 10.0 mm
B - 27.0 mm	B - 27.0 mm	C - 15.0 mm	C - 5.5 mm	C - 3.0 mm
C - 7.5 mm	C - 15.0 mm	D - 1.5 mm	D - 1.0 mm	



Profile conductor cutter Compact

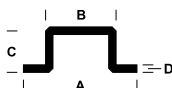


- ▶ For burr-free cutting to length
- ▶ Less effort needed
- ▶ Includes die plank holder with 2 profiles

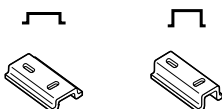
Suitable for

- With holes for workbench assembly
- Manual operation

Item	Length of rail guide mm	Length of hand lever mm	Part No.
Profile conductor cutter Compact	1000	850	52055684



A - 35.0 mm	A - 35.0 mm
B - 27.0 mm	B - 27.0 mm
C - 7.5 mm	C - 15.0 mm
D - 1.0 mm	D - 1.5 mm



Wiring conduit cutter



- ▶ Burr-free cutting even with halogen-free cable ducts
- ▶ 90° angle cutting
- ▶ Protects from injury when not in use

Characteristics

- Simple workbench mounting
- Maintenance free
- Cutting mechanism completely protected

Suitable for

- Standard and halogen-free plastic profile with 2.5 mm wall thickness and up to 125 mm width

Technical data		
Cutting width	125 mm	
Dimension	1460 x 250 x 990 mm	
Weight	10.5 kg	
Length of rail guide	1000 mm	
Length of hand lever	600 mm	
Wiring duct (wall thickness)	2.5 mm	
Item	Part No.	
Wiring conduit cutter	50125701	
Scope of supply	Part No.	Page
Hand lever		
Fixing device	50115537	
Measurement scale		

Cutting die



- ▶ For multi-stranded Al and Cu cables without armouring

Item	Cutting range	Part No.
Cutting die, 18 mm	18 mm	S18

THE TOOL RANGE FOR MAXIMUM SAFETY

Integrated Voltage Protection up to 1,000 V





Hydraulic safety tools

VDE-battery powered crimping and cutting tools	396
VDE-battery powered crimping tools	398
VDE-battery powered cutting tools	401
<hr/>	
Safety cutters	406





KLAUKE ORANGE - SAFETY IS A CHOICE WE MAKE ! THINK SAFE. ACT SAFE.

Globally unique

For even more safety, Klauke has now developed the world's first battery hydraulic crimping and cutting tools with Tri-Insulation Barrier technology that provides users with 1,000V protection against electrical shocks.

Whether you work as a panel builder or in utilities:

Think safe. Act safe.

Choose Klauke ORANGE for more safety.



VDE tested and certified to 1,000 V in accordance to the electrical requirements of IEC 60900 and fully certified to IEC 62841-1

In brief

- ▶ Applied voltage at the tool head does not disrupt to tool body
- ▶ Integrated slip-off protection prevents unintentional contact with live parts
- ▶ Housing in signal orange for simple differentiation from standard tools

Klauke ORANGE - Safety is a choice we make.
<https://www.youtube.com/watch?v=Uq6vV79KyhM>



▶ **Much safer operations**

Working with utility lines presents a series of challenges: Proximity to potentially live parts, limited space and time pressure.

This is why safety and using the right protection equipment are essential when doing this type of work. With Klauke ORANGE, you can rely on an additional layer of protection, whenever it is not possible to disconnect the circuits or when you may not be aware that you are working on a live circuit.



Accidental touching of live parts is prevented by standard-conforming slip-off protection



▶ **Safe and convenient**

Electrical system cannot be de-energized or disconnected in many cases, so working on live cables cannot be avoided. Our Oranges Line of battery powered crimping and cutting tools increase operating comfort and safety significantly in these cases. They are suitable for all applications in the low-voltage area up to 1,000 V: from the installation of cable joints and working on overhead transmission lines to mounting and repairing street lighting or meter systems.

The tried and proven functions of our Next Generation remain in place. Hence you can see all information at a glance, thanks to the integrated display. Orange Line tools also have a continuously rotating tool head.

▶ **Safety cutting tools**

The ASSG safety cutting system from Klauke, approved by the trade associates, is able to safely cut live Cu/Al cables with a rated voltage of up to 60 kV, even if a fault occurs. The cutting process is carried out using two powerful and durable 5 Ah Lithium-Ion rechargeable batteries. The remote control ensures increased comfort and optimised control during the cutting operation. The quick coupling located on the ASSG pump allows various cutting heads to be quickly and simply connected to the pre-mounted hydraulic hose.



EKM 60/22 IS VDE-battery powered hydraulic crimping tool 6 - 300 mm²



- ▶ Housing in signal orange for simple differentiation from standard tools
- ▶ Insulated and VDE certified up to 1,000 V for increased safety when working on potentially voltage-carrying parts
- ▶ Large crimping range up to 300 mm²
- ▶ All tool data in view thanks to the built-in display

Characteristics

- Choose your battery system: Bosch or Makita
- Closed head with bolt interlock, rotatable, flip top style
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display
- All data can be easily read out via Bluetooth

Suitable for

- 22-series interchangeable crimping dies, narrow crimping















































Technical data	
Crimping force	60 kN
Hub	17.5 mm
Crimping range	6 - 300 mm ²
Crimping cycle	2 s (for ARS) to 5 s (depending on cross-section)
Charging time	15 min.
Weight incl. battery	3.1 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita
VDE-battery powered hydraulic crimping tool 6 - 300 mm ²	EKM6022ISB	EKM6022ISM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK50IS	KK50IS
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40

Available dies for Series 22 for EKM 60/22 IS

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, blue connection® for compacted conductors acc. to DIN EN 60228 Class 2		6 - 300		328
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 300		327
Insulated cable lugs and compression joints, standard type, Insulated pin terminals		10 - 150		327
Tubular cable lugs and connectors for fine stranded conductors		10 - 70		328
Tubular cable lugs and connectors for solid conductors		1.5 - 16		328
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		10 - 50		328
Nickel tubular cable lugs and connectors		10 - 50		328
Copper compression cable lugs and connectors to DIN				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) acc. to DIN		6 - 300		329
Double compression cable lugs		2 x 50 - 2 x 70		329
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		329
Insulated solderless terminals		10 - 70		329
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		10 sm - 300 se / 300 sm		330
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10 - 300		330
Compression joints connections for Aldrey-conductors DIN EN 50182, Al-conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		330
Compression joints DIN 48085, part 3 for aluminium/steel conductors DIN EN 50182, aluminium crimping		25/4 - 120/20		331
Compression joints DIN 48085, part 3 for aluminium/steel conductors DIN EN 50182, steel crimping		25/4 - 120/20		331
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies A22, copper side of aluminum/copper compression cable lugs and connectors: crimping dies D22		10 - 300		330
Clamps				
Clamps, C-type		4 - 70		331
Clamps, H-type		70		331
Cable end-sleeves				
Twin cable end-sleeves		2 x 4 - 2 x 16		332
Cable end-sleeves, trapezoidal, for fine stranded conductors		10 - 240		332
Twin cable end-sleeves, trapezoidal, for fine stranded conductors		2 x 4 - 2 x 16		332

EKM 60 ID IS VDE-battery powered hydraulic crimping tool 10 - 240 mm²



- ▶ Housing in signal orange for simple differentiation from standard tools
- ▶ Insulated and VDE certified up to 1,000 V for increased safety when working on potentially voltage-carrying parts
- ▶ Extra large crimping area due to innovative 2-stage telescopic cylinders (patent pending)
- ▶ Indent crimping - no crimping dies required
- ▶ All tool data in view thanks to the built-in display

Characteristics

- Choose your battery system: Bosch or Makita
- With innovative 2-stage telescopic cylinder
- Closed head, flip top style, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Always ready-to-use thanks to battery charge and service display
- All data can be easily read out via Bluetooth

Suitable for

- Very well suited for compacted conductors
- Especially for fine strand conductors to DIN VDE 60228

Additional information

- Certified from 16 mm² onwards



Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, Tubular cable lugs for switch gear connections		10 - 240	
Tubular cable lugs and connectors for fine stranded conductors		10 - 240	
Terminals, connectors and pin terminals acc. to DIN			
Solderless terminals (DIN 46234) connectors and pin terminals (DIN 46230, DIN 46341)		10 - 240	
Aluminum compression cable lugs and connectors			
Aluminum compression cable lugs and connectors acc. to DIN		50 - 240	
Compression joints acc. to DIN 48085, part 3 for Al/St-cable acc. to DIN EN 50182		50 - 240	
Aluminum/copper compression cable lugs and connectors			
Aluminum/copper compression cable lugs and connectors		50 - 240	

Technical data	
Crimping force	30 - 60 kN
Stroke / opening width	35.5 mm
Crimping range Cu	10 - 240 mm ²
Crimping range Al	50 - 240 mm ²
Crimping cycle	2 s (MRS+) to 7 s (depending on cross-section)
Charging time	15 min.
Weight incl. battery	2.6 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita
VDE-battery powered hydraulic crimping tool 10 - 240 mm ²	EKM60IDISB	EKM60IDISM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK50IS	KK50IS
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40

ESM 50 IS VDE-battery powered hydraulic cutting tool
50 mm dia. for copper and aluminium cable



- ▶ Housing in signal orange for simple differentiation from standard tools
- ▶ Insulated and VDE certified up to 1,000 V for increased safety when working on potentially voltage-carrying parts
- ▶ High cutting force cuts copper and aluminium cables (also fine stranded)
- ▶ Saves time thanks to innovative opening mechanism
- ▶ All tool data in view thanks to the built-in display

Characteristics

- Choose your battery system: Bosch or Makita
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display
- All data can be easily read out via Bluetooth

Suitable for

- Cu and Al cables (multi and fine stranded) even armoured cable



Technical data		
Head type	cutter open	
Cutting range	max. 50 mm dia.	
Cutting force	38 kN	
Cutting cycle	8 s to 10 s (depending on material thickness)	
Charging time	15 min.	
Weight incl. battery	3.0 kg	
Ambient temperature	-10 °C up to +40 °C	
Item	Part No. Bosch	Part No. Makita
VDE Battery powered hydraulic cutting tool 50 mm dia.	ESM50ISB	ESM50ISM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KKESM50IS	KKESM50IS
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL2



Hydraulic safety tools

VDE-battery powered cutting tools

ESM 35 IS VDE-battery powered hydraulic cutting tool 35 mm dia. for copper and aluminium cable



- ▶ Housing in signal orange for simple differentiation from standard tools
- ▶ Insulated and VDE certified up to 1,000 V for increased safety when working on potentially voltage-carrying parts
- ▶ High cutting force cuts copper and aluminium cables (also fine stranded)
- ▶ All tool data in view thanks to the built-in display

Characteristics

- Choose your battery system: Bosch or Makita
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display
- All data can be easily read out via Bluetooth

Suitable for

- Cu and Al cables (multi and fine stranded) even armoured cable



1000 V

Technical data		
Head type	cutter open	
Cutting range	max. 35 mm dia.	
Cutting force	25 kN	
Cutting cycle	4 s up to 6 s (depending on material thickness)	
Charging time	15 min.	
Weight incl. battery	2.9 kg	
Ambient temperature	-10 °C up to +40 °C	
Item	Part No. Bosch	Part No. Makita
VDE Battery powered hydraulic cutting tool 35 mm dia.	ESM35ISB	ESM35ISM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KKESM50IS	KKESM50IS
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL2

ESM 25 IS VDE-battery powered hydraulic cutting tool 25 mm dia.



- ▶ Housing in signal orange for simple differentiation from standard tools
- ▶ Insulated and VDE certified up to 1,000 V for increased safety when working on potentially voltage-carrying parts
- ▶ For cutting Al/St cables (ACSR), round materials (Cu, Al, St) as well as armoured cables, steel rods and stay wire
- ▶ Extremely robust design and lightweight
- ▶ All tool data in view thanks to the built-in display

Characteristics

- Choose your battery system: Bosch or Makita
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display
- All data can be easily read out via Bluetooth

Suitable for

- Open wires (ACSR, Aldrey), stay wire and high-tensile stay wire



Technical data		
Head type	cutter open	
Cutting range	Open wire (ACSR, Aldrey) up to dia. 25 mm, stay wire up to dia. 16 mm, hightensile stay wire up to dia. 12 mm	
Cutting force	67 kN	
Cutting cycle	depending on material thickness	
Charging time	15 min.	
Weight incl. battery	2.9 kg	
Ambient temperature	-10 °C up to +40 °C	
Item	Part No. Bosch	Part No. Makita
VDE Battery powered hydraulic cutting tool 25 mm dia.	ESM25ISB	ESM25ISM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KKESM50IS	KKESM50IS
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL2
Replacement blade set	ESM25ESET	ESM25ESET



Hydraulic safety tools

VDE-battery powered cutting tools

ES 20 IS VDE battery powered hydraulic cutting tool 20 mm dia.



- ▶ Housing in Signal Orange for simple differentiation from standard tools
- ▶ Insulated and VDE certified to 1000 V for increased safety when working on potentially voltage-carrying parts
- ▶ For cutting Al/St conductors (ACSR) to DIN EN 50182, solid Al/Cu cables to DIN EN 60228, Class 1 and laminated copper bus bars
- ▶ Extremely robust design and lightweight
- ▶ Slim cutting head - ideal when space is critical
- ▶ All tool data in view thanks to the built-in display

Characteristics

- Choose your battery system: Bosch or Makita
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display
- All data can be easily read out via Bluetooth

Suitable for

- Al/St wire (ACSR)



1000 V

Technical data		
Head type	cutter open	
Cutting range	max. 18 mm dia. (depending on cable/wire type)	
Cutting force	23 kN	
Cutting cycle	2 s to 4 s (depending on cable size)	
Charging time	15 min.	
Weight incl. battery	2.1 kg	
Ambient temperature	-10° to +40 °C	
Item	Part No. Bosch	Part No. Makita
VDE battery powered hydraulic cutting tool 20mm dia.	ES20ISB	ES20ISM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK50IS	KK50IS
Accessories		
Bosch Akku 18 V / 5,0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2
Replacement blade	ES20E	ES20E

ES 32 IS VDE battery powered hydraulic cutting tool 32 mm dia.



- ▶ Housing in Signal Orange for simple differentiation from standard tools
- ▶ Insulated and VDE certified to 1000 V for increased safety when working on potentially voltage-carrying parts
- ▶ Slim cutting head - ideal when space is critica
- ▶ All tool data in view thanks to the built-in display

Characteristics

- Choose your battery system: Bosch or Makita
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display
- All data can be easily read out via Bluetooth

Suitable for

- Multistranded Cu- and Al-cable



Technical data		
Head type	cutter open	
Cutting range	max. 32 mm dia. (depending on cable/wire type)	
Cutting force	15 kN	
Cutting cycle	8 s to 10 s (depending on cable size)	
Charging time	15 min.	
Weight incl. battery	2.0 kg	
Ambient temperature	-10 °C to 40 °C	
Item	Part No. Bosch	Part No. Makita
VDE battery powered hydraulic cutting tool 32mm dia.	ES32ISB	ES32ISM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK50NG	KK50NG
Accessories		
Bosch Akku 18 V / 5,0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2
Replacement blade	ES32E	ES32E

SSG Hydraulic safety cutter with foot pump to max. 105 mm dia.



- ▶ Safety cutter for safe cutting of live Cu/Al cables without steel armouring which, in case of a failure, may carry voltages of up to 60 kV
- ▶ Single-core live cables without steel armouring can be cut under voltage of up to 110 kV/60 Hz

Characteristics

- Two-stage hydraulics
- Manual retract as required
- The cutting head is generally delivered including safety hydraulic hose (10 m)

Technical data	SSGG85	SSG105	SSGG105
Head type	closed (SSKG85)	open (SSK105)	closed (SSGG105)
Cutting range	max. 85 mm dia. (depending on cable type)	max. 105 mm dia. (depending on cable type)	max. 105 mm dia. (depending on cable type)
Operating pressure	625 bar	625 bar	625 bar
Hydraulic oil	Special oil Rivolta S.B.H.11	Special oil Rivolta S.B.H.11	Special oil Rivolta S.B.H.11
Weight	16 kg	19 kg	19 kg
Ambient temperature	-20 °C up to +40 °C	-20 °C up to +40 °C	-20 °C up to +40 °C
Item	Part No.		
Hydraulic safety cutting unit with foot pump max. 85 mm dia.	SSGG85		
Hydraulic safety cutting unit with foot pump max. 105 mm dia.	SSG105		
Hydraulic safety cutting unit with foot pump max. 105 mm dia.	SSGG105		
Scope of supply	Part No.	Page	
Earthing kit	EG1		
Steel carrying case	MKSSG		
Accessories	Part No.	Page	
Heat protection cover 1.8 m x 1.8 m	HSD1		
Heat protection cover 1.2 m x 0.9 m	HSD2		
Replacement blade for	SSGG85	SSG105	SSGG105
ES105E		•	
ESG85EF1	•		
ESG85ES1	•		
ESG105EF			•
ESG105ES			•
Replacement cutting head	SSGG85	SSG105	SSGG105
SSGG85	•		
SSG105		•	
SSGG105			•

ESSG Battery powered hydraulic safety cutter to max. 105 mm dia.



- ▶ Safety cutter for cutting live Cu/Al cables without steel armoring which, in case of a failure, may carry voltages of up to 60 kV
- ▶ Single-core live cables without steel armoring can be cut under voltage of up to 110 kV/60 Hz
- ▶ Powerful 3.3 Ah Li-Ion battery

Characteristics

- 2-stage hydraulic system with fast feed and power stroke
- Electronic control
- Multifunction LED for maintenance display and charge status display of the battery
- LED display for service interval after 250 cuts
- The cutting head is generally delivered including safety hydraulic hose (10 m)

Technical data	ESSGG85L	ESSG105L	
Head type	closed (SSKG85)	open (SSK105)	
Cutting range	max. 85 mm dia. (depending on cable type)	max. 105 mm dia. (depending on cable type)	
Cutting force	60 kN	80 kN	
Cutting time	approx. 21 - 40 s	approx. 21 - 40 s	
Operating pressure	625 bar	625 bar	
Battery voltage	18 V	18 V	
Battery capacity	3.3 Ah, Li-Ion	3.3 Ah, Li-Ion	
Charging time	60 min.	60 min.	
Hydraulic oil	Special oil Rivolta S.B.H.11	Special oil Rivolta S.B.H.11	
Weight	9.98 kg	13.13 kg	
Ambient temperature	-20 °C up to +40 °C	-20 °C up to +40 °C	
Item	Part No.		
Battery powered hydraulic safety cutter, max. 85 mm dia.	ESSGG85L		
Battery powered hydraulic safety cutter, max. 105 mm dia.	ESSG105L		
Scope of supply	Part No.	Page	
Battery 18 V / 3.3 Ah, Li-Ion (54 Wh)	RAL3	483	
Charger for 18 V Li-Ion batteries	LGL3	486	
Plastic case for ESSG65L and ESSG105L	KKESSGL		
Plastic case for ESSGG85L	KKESSGG85L		
Earthing kit	EG1		
Accessories	Part No.	Page	
Heat protection cover 1.8 m x 1.8 m	HSD1		
Heat protection cover 1.2 m x 0.9 m	HSD2		
Replacement blade for	ESSGG85L	ESSG105L	
ES105E		•	
ESG85EF1	•		
ESG85ES1	•		
Replacement cutting head	SSGG85	SSG105	SSGG105
SSGG85	•		
SSG105		•	
SSGG105			•

ASSG Battery powered hydraulic safety cutter to max. 120 mm dia.



- ▶ DGVV-approved safety cutter for cutting live Cu/Al cables without steel armouring which, in case of a failure, may carry voltages of up to 60 kV
- ▶ Single-core live cables without steel armouring can be cut under voltage of up to 110 kV/60 Hz
- ▶ Very wide opening width to 120 mm
- ▶ Safe and fast operations by using remote control and 10 m long safety hydraulic hose

Characteristics

- 2-stage hydraulic system with fast feed and power stroke
- Quick motor stop for high user safety
- Electronic control
- DGVV-tested
- 360° rotating connection as with the cutting head
- Battery-powered pump filled with non-conductive oil
- Remote control for increased comfort and safety
- Two powerful 5 Ah, 18 V Lithium-Ion batteries (one battery is always there as a replacement)
- Sturdy housing from impact-resistant, fibreglass reinforced polyamide
- The cutting head is generally delivered including safety hydraulic hose (10 m)
- Multi-function display for pressure testing, power consumption and service interval

Additional information

- Complete system, different variants available depending on cutting head

Technical data	ASSG85L	ASSG105L	ASSGG105L	ASSG120SL
Head type	closed	open	closed	open
Cutting range	max. 85 mm dia.	max. 105 mm dia.	max. 105 mm dia.	max. 120 mm dia.
Operating pressure	max. 630 bar	max. 630 bar	max. 630 bar	max. 630 bar
Battery voltage	18 V	18 V	18 V	18 V
Battery capacity	2 x 5 Ah Li-Ion	2 x 5 Ah Li-Ion	2 x 5 Ah Li-Ion	2 x 5 Ah Li-Ion
Charging time	45 min.	45 min.	45 min.	45 min.
Max. oil volume	approx. 750 ml	approx. 750 ml	approx. 750 ml	approx. 750 ml
Hydraulic oil	Shell Naturelle HF-E 15	Shell Naturelle HF-E 15	Shell Naturelle HF-E 15	Shell Naturelle HF-E 15
Weight incl. battery	2 batteries approx. 6.4 kg	2 batteries approx. 6.4 kg	2 batteries approx. 6.4 kg	2 batteries approx. 6.4 kg
Ambient temperature	-20 °C up to +40 °C	-20 °C up to +40 °C	-20 °C up to +40 °C	-20 °C up to +40 °C
Dimension	330 x 160 x 280 mm	330 x 160 x 280 mm	330 x 160 x 280 mm	330 x 160 x 280 mm

Item	Part No.
Battery powered hydraulic safety cutter, max. 85 mm dia.	ASSG85L
Battery powered hydraulic safety cutter, max. 105 mm dia.	ASSG105L
Battery powered hydraulic safety cutter, max. 105 mm dia.	ASSGG105L
Battery powered hydraulic safety cutter, max. 120 mm dia.	ASSG120SL

Scope of supply	Part No.	Quantity	Page
Makita battery 18 V / 5.0 Ah, Li-Ion (90 Wh)	RAL4	2	484
Makita quick-charger for 18 V Li-Ion battery	LGL1	1	486
Earthing kit	EG1	1	
Carrying strap with shoulder padding	TG3	1	487
Remote control with 1.5 m cable	HTA4	1	491
Plastic case	KKASSGL	1	
Plastic case for ASSG105L and ASSG120SL	KKSSK120S	1	

QUICK AND CLEAN.

Greenlee tools for punching - exactly the right solution for accurate operations. Extreme reliability quickly achieves a burr-free result.





Punching

Round and special shape punches	412
Standard punch systems	414
Slug Buster® punch systems	416
Slug-Splitter® punch system for stainless steel	417
Speed-Punch™ punch system	418
Special shape punches	421

Punching tools and sets	430
KWSET Keyway punch	432
Mechanical and hydraulic punching tools	432
Battery powered punching tool LS 50 FLEX	435
Battery powered punching tool LS100 FLEX	436
Slug Buster® punch sets	438
Speed-Punch™ punch sets	440
Slug-Splitter® punch sets	442
Slug Buster® punching tools and sets	443

Hole saws	448
HSS bi-metal hole saws	450

Bits and step bits	456
---------------------------	------------



PATENTED CLEAN SOLUTION - ROUND AND SPECIAL SHAPE PUNCH

Speed and innovation set our Greenlee products apart. With Speed Punch and Slug Splitter, you can work quickly and precisely in any application. Our commitment to your work.



In brief

- ▶ Long service life
- ▶ For aluminium and steel to 3.5 mm thick
- ▶ Threadless profile for quick replacement
- ▶ No jamming of the slug
- ▶ Threads require no maintenance

▶ Quick punching with Speed Punch

We make you faster. Time-saving operations are really easy with the Speed Punch profile. The threadless stamp profile is quickly changed via clamp technology - no more screwing the counter nut off and on! Which also means: Threads are care and maintenance-free. Punching is up to three-times quicker than before.

- Quick punching system: Punching up to 3 x quicker
- For aluminium and steel up to 3.5 mm thick
- Innovative clamp technology
- No more screwing the counter nut off and on
- Threads are now care and maintenance-free

▶ Slug Splitter: Automatic clean punching

We make it easy for you. The Slug Splitter separates punched slug remnants. You can fully concentrate on punching stainless steel, without delays due to time-consuming removal of punched slug remnants.

- Splits the punches into two parts for direct removal of punch slug remnants
- Longest service life due to high-quality stainless steel
- Slug-Splitter: Suitable for use with all Greenlee punching hydraulics



▶ Square punch: Special-shaped punches

Displays and panels require appropriate square-shaped punching. The special punching stamp from Greenlee punches stainless steel and mild steel without leaving burrs. High-quality tool steel meets your requirements - in proven Greenlee quality.

- For mild steel (St37), plastic and aluminium to 3.0 mm thick and V2A stainless steel up to 1.5 mm
- Burr-free punching of display panels
- High-quality tool steel





Standard punch systems



► Ball bearing draw stud reduces operating force

Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm

Operation

- Manual / hydraulic

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm diameter 50360183
Draw stud 11.1 mm dia., pilot drill 12.7 mm dia. 50344102
draw stud 19.0 mm dia., pilot drill 20.5 mm diameter 50344030

Scope of supply

- Complete system including punch, die and draw stud for manual operation

Additional information

- * 50042181 Draw stud without ball-bearing
- ** 52085634 only for 22.5mm / Pg16, 2.5mm mild steel and 2mm V2A

Punch size			Max. Material thickness	Individual parts for manual operation					Draw studs + Accessories for hydraulic units				Complete unit
True dimension	Standard size			mm (St37)	Punch	Die	Draw stud with ball bearing	Ball bearing nut	Spacer	Draw studs		Accessories	
	mm	Pg	ISO							Hand hydraulic 7804E, 7904E	Battery powered punch LS 50	Hydr. pump 52084920, 52084941 LS100F LEX	Adapter sleeves 9,5/ 19,0 for 51300430
12.7	Pg 7		1.5	50069969	50042351	50042181							50024086
14.3			1.5	50042300	50042297	50042181							50024337
15.2	Pg 9		2.0	50213164	50320025	50000420							50211153
15.9			1.5	50042238	50042246	50042181						50339672	50024094
16.2		ISO 16	2.0		50351621	50000420			51300430	51300430	52042827	50339672	50351923
18.6			2.0	50177001	50320033	50000420			51300430	51300430	52042827	50339672	50188860
19.1			2.0			50000420			51300430	51300430	52042827	50339672	50206672
20.4	Pg 13	ISO 20	2.0	50176978	50320041	50000420			51300430	51300430	52042827	50339672	50188879
20.6			2.0	50042262	50042254	50000420			51300430	51300430	52042827	50339672	50206680
22.5	Pg16		2.5	52085632	52085629	52085686			52085690	52085690	52085689		52085634
22.5	Pg 16		3.5	51040060	51147220	50000420			51300430	51300430	52042827	50339672	50225634
23.8			2.0	50042386	50042378	50000420			51300430	51300430	52042827	50339672	50253417
25.4		ISO 25	2.0	50039865	50351648	50000420			51300430	51300430	52042827	50339672	50206702
27.0			2.0	50042408	50042424	50000420			51300430	51300430	52042827	50339672	50253425
28.3	Pg 21		3.5	51040080	51069720	50040405			52085691	52085691	52085692	50339672	50225642
28.3	Pg 21		2.0	50368826	50320068	50000420			51300430	51300430	51300430	50339672	50369105
28.6			2.0	50039903	50039911	50000420			51300430	51300430	51300430	50339672	50206710
30.5			1.5	50362828	50362798	50000420			51300430	51300430	51300430	50339672	50365061
31.8			1.5			50000420			51300430	51300430	51300430	50339672	50206737
32.5	Pg 32		3.5	50244590	50351680	50040405			52085691	52085691	52085692		50244760
33.4			1.5		50065866	50000420			52085691	52085691	52085692		50253441

Punch size			Max. Material thickness	Individual parts for manual operation					Draw studs + Accessories for hydraulic units				Complete unit	
True dimension	Standard size			mm (St37)	Punch	Die	Draw stud with ball bearing	Ball bearing nut	Spacer	Draw studs		Accessories		Part No.
	mm	Pg	ISO							Hand hydraulic 7804E, 7904E	Battery powered punch LS 50	Hydr. pump 50159062 50250973 LS100F LEX	Adapter sleeves 19,0 / 28,6	
34.6			3.5	50040103	50040111	50040405				52085691	52085691	52085692		50225650
34.9			3.5	50047345	50047353	50040405				52085691	52085691	52085692		50254278
37.0	Pg 29		3.5	50183311	50320084	50040405				52085691	52085691	52085692		50188909
38.1			3.5	50047361	50070444	50040405				52085691	52085691	52085692		50254286
40.5	ISO 40		3.5	50244620	50351591	50040405				52085691	52085691	52085692		50244779
41.3			3.5	50042513	50042505	50040405				52085691	52085691	52085692		50253492
43.2			3.5	51069740	50040138	50040405				52085691	52085691	52085692		50225669
44.5			3.5	50042572	50042564	50040405				52085691	52085691	52085692		50253506
47.0			3.5	50176870	51320090	52085688				52085691	52085691	52085692		50188917
47.6			3.5	50042483	50042491	52085688				52085691	52085691	52085692		50253514
49.6			3.5		50040618	52085688				52085691	52085691	52085692		50225677
50.8	ISO 50		3.5	50042327	50351613	52085688				52085691	52085691	52085692		50206761
54.0	Pg 42		3.5	50042459	50361732	52085688				52085691	52085691	52085692		50206788
57.2			3.5	50040588	50040596	52085688				52085691	52085691	52085692		50253603
60.0	Pg 48		3.5	50176900	50320114	52085688				52085691	52085691	52085692		50188925
61.5			3.5	52085670	52085666	52085688				52085691	52085691	52085692		52085672
63.5	ISO 63		3.5	50042343	50042335	50041886				52085691	52085691	52085692		50206796
66.7			3.5	50042521	50069977	50041886	50041878				52085692	52085692		50212141
69.9			3.5	50042475	50042467	50041886	50041878				52085692	52085692		50253611
70.6			3.5	50024450	50024434	50041886	50041878				52085692	52085692		50253832
74.0			3.5	52085674	52085673	52085694	50046853				52093902	52085693		52085675
76.2			3.5	50042599	50042580	50041886	50041878				52093902	52085693		50253727
79.4			3.5	50063634	50063626	50041886	50041878				52093902	52085693		50254030
82.0			3.5	50189050	50189069	50041886	50041878				52093902	52085693		50186353
89.8			3.5	52085677	52085676	52085694	50046853				52093902	52085693		52085678
95.3			3.5	50052659	50052667	50041886	50041878	50046861			52085692	52085692	50031708	50212168
102.7			3.5	52085680	52085679	52085694	50046853	50046861			52093902	52085693	50031708	52085681
115.4			3.5	52085683	52085682	52085694	50046853	50046861			52093902	52085693	50031708	52085684
120.0			3.5	50214896	50214918	52085694	50046853	50046861			52093902	52085693	50031708	50215191
143.7			3.5	50054473	50054481	52085694	50046853	50046861			52093902	52085693	50031708	50199803



Slug Buster® punch system



- ▶ For quick, clean, effortless and burr-free holes
- ▶ Split slugs fall free and can be removed easily

Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm

Operation

- Manual / hydraulic

Predrilling






- Draw stud 9.5 mm dia., pilot drill 9.7 mm diameter 50360183
Draw stud 11.1 mm dia., pilot drill 12.7 mm dia. 50344102
draw stud 19.0 mm dia., pilot drill 20.5 mm diameter 50344030

Scope of supply

- Complete system including punch, die and draw stud for manual operation

Additional information

- * 50042181 Draw stud without ball-bearing
- ** 52085633 only for 22.5mm / Pg16, 2.5mm mild steel and 2mm V2A
- *** 50339672 Adapter 9.5mm /19mm for draw stud 51300430

Punch size			Max. Material thickness	Individual parts for manual operation			Draw studs + Accessories for hydraulic units		Complete unit
True dimension	Standard size								
mm	Pg	ISO	mm (St37)	Punch	Die	Draw stud with ball bearing	Hand hydraulic Quick Draw Battery hydraulics LS50FLEX	Hand hydraulic 52084941, 52084920 Battery hydraulics LS100Flex	Part No.
12.5	Pg 7	ISO 12	1.5	50067281	50067290	50042181			50067273
15.2	Pg 9		2.0	50319698	50320025	50000420	51300430	52042827	50319892
16.2		ISO 16	2.0	50351630	50351621	50000420	51300430	52042827	50351770
18.6	Pg 11		2.0	50319701	50320033	50000420	51300430	52042827	50319906
20.4	Pg 13	ISO 20	2.0	50319710	50320041	50000420	51300430	52042827	50319914
22.5	Pg 16		2.0	50317563	51147220	50000420	51300430	52042827	50319620
22.5	Pg 16		2.5	52085631	52085629	52085686	52085690	52085689	52085633
25.4		ISO 25	2.0	50351656	50351648	50000420	51300430	52042827	50351788
28.3	Pg 21		3.0	50317571	51069720	50040405	50318721	52045040	50319639
28.3	Pg 21		2.0	50319736	50320068	50000420	52085691	52042827	50319930
30.5			2.0	50362844	50362798	50000420	51300430	52042827	50365088
30.5			3.5		50362780	50040405	52085691	52085692	50602462
32.5		ISO 32	3.5	50351699	50351680	50040405	52085691	52085692	50351796
34.6			3.5		50040111	50040405	52085691	52085692	50319647
37.0	Pg 29		3.5	50319752	50320084	50040405	52085691	52085692	50319957
40.5		ISO 40	3.5	50351583	50351591	50040405	52085691	52085692	50351800
43.2			3.5		50040138	50040405	52085691	52085692	50319655
47.0	Pg 36		3.5	51319760	51320090	52085688	52085691	52085692	50319965
49.6			3.5		50040618	52085688	52085691	52085692	50319663
50.8		ISO 50	3.5	50351605	50351613	52085688	52085691	52085692	50351818
54.0	Pg 42		3.5	50361724	50361732	52085688	52085691	52085692	50361716
60.0	Pg 48		3.5	50319787	50320114	52085688	52085691	52085692	50319981
61.5			3.5	52085668	52085666	52085688	52085691	52085692	52085671
64.0		ISO 63	3.5		50351664	52085688	52085691	52085692	50351826

SLUG SPLITTER® punch system (stainless steel)



- ▶ Special alloy for maximum service life
- ▶ Split slugs fall free and can be disposed of easily

Suitable for

- Stainless steel (V2A), mild steel (St37), plastic and aluminium up to 3.5 mm thick

Operation

- Hydraulic

Predrilling




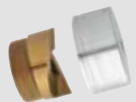
- Draw stud 11.1 mm dia., pilot drill 12.7 mm diameter 50344102
draw stud 19.0 mm dia., pilot drill 20.5 mm diameter 50344030

Scope of supply

- Complete system including punch and die

Additional information

- * = Slug Splitter SC® - self-centring

Punch size			Max. Material thickness	Individual parts for manual operation		Draw studs	Complete unit
True dimension	Standard size						
	mm	Pg	ISO	mm (V2A)	Punch	Die	Pump, hand and battery powered
15.2	Pg 9		2.5	50311174	50311263	50294512	50069519
16.2		ISO 16	2.5	50045997	50045989	50294512	50069527
18.6	Pg 11		2.5	50311190	50311280	50294512	50069535
20.4	Pg 13	ISO 20	2.5	50311204	50311298	50294512	50069543
22.5	Pg 16		3.5	50281542	50281550	50294512	50069551
25.4		ISO 25	3.5	50046020	50046012	50294512	50069560
28.3	Pg 21		3.5	50281569	50281577	50294520	50069578
30.5			3.5	50364901	50364898	50294520	50069586
32.5		ISO 32	3.5	50046055	50046039	50294520	50069594
34.6			3.5	50281585	50281593	50294520	
37.0	Pg 29		3.5	50311220	50311352	50294520	50069608
40.5		ISO 40	3.5	50046080	50046071	50294520	50069616
43.2			3.5	50281607	50281615	50294520	
47.0	Pg 36		3.5	50311239	50311310	50294520	50069624
49.6			3.5	50281623	50281631	50294520	
50.8		ISO 50	3.5	50046110	50046098	50294520	50069632
54.0	Pg 42		3.5	50311247	50311328	50294520	50069640
60.0	Pg 48		3.5	50311255	50311336	50294520	50069659
61.5			3.5	50281658	50281666	50294520	
64.0		ISO 63	3.5	50046144	50046136	50294520	50069667



Speed Punch™ punch system



- ▶ Innovative threadless punch profile
- ▶ Easy and quick handling as the screwing and unscrewing of the counter nut is not required

Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm

Operation

- Hydraulic

Predrilling


- Draw stud 9.5 mm dia.; pilot drill 9.7 mm dia.
draw stud 19.0 mm dia.; pilot drill 20.5 mm dia.

Scope of supply

- Complete system including punch and die

Additional information

- Counter nuts and draw studs must be ordered separately, they are not included in scope of supply
- Draw stud for LS100Flex, manual hydraulics 1725 and 767
Speed Punch™ draw stud 19 mm to 9.5 mm for ISO 16/20/25 and PG16 Part-No. 52066000
Speed Punch™ pull stud 19mm for ISO 16/20/25 and PG16 Part-No. 52058897

Punch size		Max. Material thickness	Individual parts		Draw studs	Speed lock	Complete unit	
True dimension	Standard size							
mm	PG	ISO	mm (St37)	Punch	Die	for LS50Flex and Quick Draw (not included)	(not included)	Part No.
16.2		ISO 16	3.5	52066021	52066022	52066001	52066002	52055431
20.4	PG 13	ISO 20	3.5	52066023	52066024	52066001	52066002	52055432
22.5	PG 16		3.5	52065998	52065999	52066001	52066002	52055433
25.4		ISO 25	3.5	52066025	52066026	52066001	52066002	52055434
32.5		ISO 32	3.5	52066027	52066028	52047818	52047817	52055435
40.5		ISO 40	3.5	52066029	52066030	52047818	52047817	52055436
50.8		ISO 50	3.5	52066031	52066032	52047818	52047817	52055437
64.0		ISO 63	3.5	52066033	52066034	52047818	52047817	52055438

Accessories	Part No.	Page
Speed Punch™ Speed lock and draw stud 9.5 mm for ISO 16/20/25 and PG 16	52055439	
Speed Punch™ Speed lock and draw stud 19.0 mm for ISO 32/40/50/63	52055440	

Draw studs with manual drivers

► High wear resistance

Order info

- To increase the service life, we recommend greasing the draw studs with Greenlee installation paste no. 50115472
- Sizes given are diameter x length
- Subject to tolerance deviations



Size	Part No.
9.5 x 40 mm	50000420



Size	Part No.
6.5 x 35 mm	50042181



Size	Part No.
11.1 mm x 76 mm	52085686



Size	Part No.
28.6 x 190 mm	52085694



Size	Part No.
19 x 140 mm	50041886



Size	Part No.
19 x 87 mm	52085688



Size	Part No.
19 x 55 mm	50040405



Punching

Round and special shape punches

Draw studs for hydraulic drivers

Order info

- To increase the service life, we recommend greasing the draw studs with Greenlee installation paste no. 50115472
- Sizes given are diameter x length
- Subject to tolerance deviations
- Draw stud long, for use with LS100Flex, 767 and 1725 hydraulics (746A punching head)
- Draw stud short, for use with LS50Flex, 767 and Quick Draw hydraulics



Size	Part No.
19 x 28,6 x 143 mm (long)	52085693
19 x 28,6 x 124mm (short)	52093902



Size	Part No.
9.5 x 71 mm	51300430



Size	Part No.
11.1 mm x 19mm, 108 mm (short)	52085690
11.1 mm x 19 mm, 127mm (long)	52085689



Size	Part No.
Adapter 19 mm to 28.6 mm	50031708



Adapter

Size	Part No.
19 x 48 mm (Inside 9.5 mm)	50339672
19 x 48 mm (Inside 6.3 mm)	50601148
19 x 48 mm (Inside 12.7 mm)	50601679



Size	Part No.
19 x 122 mm (short)	52085691
19 x 143 mm (long)	52085692



Size	Part No.
19 x 140 mm for Slug Splitter®	52094520



Size	Part No.
11.1 x 108 mm for Slug Splitter®	52094512



Size	Part No.
9.5 mm x 19 mm, 122 mm	52042827

Rectangular punch



Suitable for

- Mild steel (St37), plastic and aluminium to 3.0 mm and V2A 1.5 mm
- Punching of burr-free openings

Operation

- Manual / hydraulic

Predrilling

- 9.7 mm dia. pilot drill 50360183
- 12.7 mm dia. pilot drill 50344102
- 15.9 mm dia. pilot drill 50344030
- 30.2 mm dia. 50364146

Scope of supply

- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

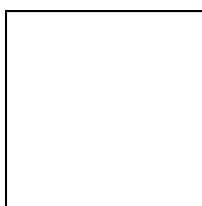
Additional information

- * = only for use with hydraulic punch drivers 52084920, 52084941, LS60L and LS50FLEX
- ** = only for use with hydraulic punch drivers 52084920, 52084941 and LS50FLEX

Punch size A x B	Max. Material thick- ness	Operating mode	Individual parts f. manual operation			Adapter for hydr. punch driver	Mounting hole-dia.	Complete unit
			Draw studs	Ball bearing nut	Counter nut			
mm	mm (St37)					Part No.	mm	Part No.
11.1 x 22.2	1.5	Hand/Hydr.	50601156	50601202	50052446	50601148	9.7	50600257
17.0 x 19.0	2.0	Hand/Hydr.	52020113	50347330	50046381	50339672	12.7	50610281
19.1 x 29.0	2.0	Hand/Hydr.	50601172	50601652	50602586	50601679	15.9	50600311
19.1 x 33.3	2.0	Hand/Hydr.	50601172	50601652	50602586	50601679	15.9	50600346
21.9 x 25.9	2.0	Hand/Hydr.	50601172	50601652	50602586	50601679	15.9	50600370
22.0 x 30.0	2.0	Hand/Hydr.	50601172	50601652	50602586	50601679	15.9	50600400
22.0 x 42.0	2.0	Hand/Hydr.	50184369	50601652	50602586	50601679	15.9	50600435
25.1 x 29.0	2.0	Hand/Hydr.	50601172	50601652	50602586	50601679	15.9	50600478
31.8 x 35.1	2.0	Hand/Hydr.	50184369	50601652	50602586	50601679	15.9	50600508
29.0 x 71.0	3.0	Hydr.	52045298		52046101		28.6	52045296
30.0 x 90.0	3.0	Hydr.	52045298		52046101		28.6	52045297
33.3 x 66.7	3.0	Hydr.	52046100		52046101		30.2	50600532
35.0 x 52.0	3.0	Hydr.	52046100		52046101		30.2	50600567
35.0 x 65.0	3.0	Hydr.	52046100		52046101		30.2	50600591
35.0 x 82.0	2.0	Hydr.*	52046100		52046101		30.2	50600621
35.0 x 112.0	2.0	Hydr.*	52046100		52046101		30.2	50600656
46.0 x 92.0	3.0	Hydr.*	52046100		52046101		30.2	50600680
57.2 x 88.9	3.0	Hydr.*	52046100		52046101		30.2	50600710
68.0x138.0	2.0	Hydr.**	52046100		52046101		30.2	50600745



Square punch



Suitable for

- Mild steel (St37), plastic and aluminium to 3.0 mm and V2A 1.5 mm
- Punching of burr-free openings

Operation

- Manual / hydraulic

Predrilling

- 9.7 mm dia. pilot drill 50360183
- 12.7 mm dia. pilot drill 50344102
- 15.9 mm dia. pilot drill 50344030
- 30.2 mm dia. 50364146

Scope of supply

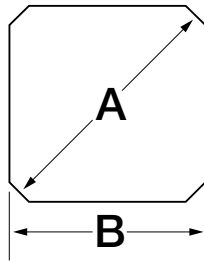
- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

Additional information

- * = only for use with hydraulic punch drivers 52084920, 52084941, LS50 Flex and LS100 Flex
- ** = only for use with hydraulic punch drivers 52084920, 52084941 and LS100Flex

Punch size A x B	Max. Material thickness	Operating mode	Individual parts for manual operation			Adapter for hydr. punch driver	Mounting hole-dia. mm	Complete unit
			Draw studs	Ball bearing nut	Counter nut			
mm	mm (St37)					Part No.	mm	Part No.
12.7 x 12.7	1.5	Hand/Hydr.	50601156	50601202	50052446	50601148	9.5	50600010
15.9 x 15.9	2.0	Hand/Hydr.	52020113	50347330	50046381	50339672	12.7	50610045
19.1 x 19.1	2.0	Hand/Hydr.	50184369	50347330	50602586	50339672	12.7	50610076
22.4 x 22.4	2.0	Hand/Hydr.	50184369	50347330	50602586	50339672	12.7	50610106
24.0 x 24.0	2.0	Hand/Hydr.	52020113	50347330	50046381	50339672	12.7	50610137
25.4 x 25.4	2.0	Hand/Hydr.	50601172	50601652	50602586	50601679	15.9	50600168
45.0 x 45.0	3.0	Hydr.	52046100		52046101		30.2	50115723
46.0 x 46.0	3.0	Hydr.	52046100		52046101		30.2	50600192
50.8 x 50.8	3.0	Hydr.	52046100		52046101		30.2	50601687
68.0 x 68.0	3.0	Hydr.	52046100		52046101		30.2	50601717
92.0 x 92.0	3.0	Hydr.*	52046100		52046101		30.2	50601741
104.8 x 104.8	2.0	Hydr.*	52046100		52046101		30.2	50601776
138.0 x 138.0	2.0	Hydr.**	52055901				30.2	50602349

Special square punch with flattened corners



Suitable for

- Mild steel (St37), plastic and aluminium to 2.0 mm
- Punching of burr-free openings

Operation

- Manual / hydraulic

Predrilling

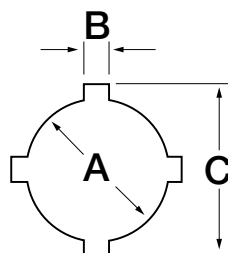
- 12.7 mm dia. pilot drill 50344102

Scope of supply

- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

Punch size A x B	Max. Material thickness	Operating mode	Individual parts for manual operation			Adapter for hydr. punch driver	Mounting hole-dia. mm	Complete unit
			Draw studs	Ball bearing nut	Counter nut			
mm	mm (St37)					Part No.	mm	Part No.
22.5 x 20.1	2.0	Hand/Hydr.	50184369	50347330	50602586	50339672	12.7	50611257

Round punch with four anti-rotation tabs



Suitable for

- Mild steel (St37), plastic and aluminium to 3.0 mm

Operation

- Manual / hydraulic

Predrilling

- 15.9 mm dia. pilot drill 50344030

Scope of supply

- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

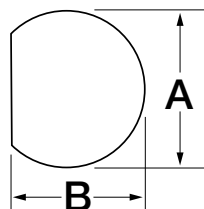
Punch size A x B	Max. Material thickness	Operating mode	Individual parts for manual operation			Adapter for hydr. punch driver	Mounting hole-dia. mm	Complete unit
			Draw studs	Ball bearing nut	Counter nut			
mm	mm (St37)					Part No.	mm	Part No.
22.5 x 3.2 x 25.4	2.0	Hand/Hydr.	50184369	50601652	50602586	50601679	15.9	50602381
30.5 x 4.8 x 36.0	3.0	Hand/Hydr.	50184369	50601652	50602586	50601679	15.9	50602420



Punching

Round and special shape punches

„D“ shaped punch



Suitable for

- Mild steel (St37), plastic and aluminium to 2.0 mm

Operation

- Manual / hydraulic

Predrilling

- 12.7 dia. mm pilot drill 50344102

Scope of supply

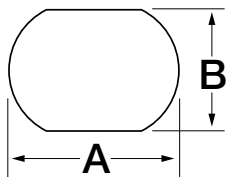
- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

Additional information

- * 50610809 and 50610830 available only as punch unit

Punch size A x B	Max. Material thickness	Operating mode	Individual parts for manual operation			Adapter for hydr. punch driver	Mounting hole-dia. mm	Complete unit
			Draw studs	Ball bearing nut	Counter nut			
mm	mm (St37)					Part No.	mm	Part No.
12.7 x 11.9	2.0	Hand/Hydr.	50601156	50601202	50052446	50601148	9.5	50600770
15.9 x 15.1	2.0	Hand/Hydr.	50344218	50347330	50046381	50339672	12.7	50610809
19.1 x 17.9	2.0	Hand/Hydr.	50344218	50347330	50046381	50339672	12.7	50610830

Double „D“ shaped punch



Suitable for

- Mild steel (St37), plastic and aluminium to 2.0 mm

Operation

- Manual / hydraulic

Predrilling

- 15.9 mm dia. pilot drill 50344030

Scope of supply

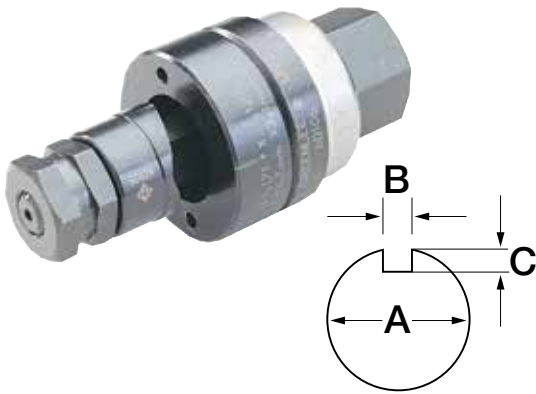
- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

Additional information

- All punches available only as punch unit

Punch size A x B	Max. Material thickness	Operating mode	Individual parts for manual operation			Adapter for hydr. punch driver	Mounting hole-dia. mm	Complete unit
			Draw studs	Ball bearing nut	Counter nut			
mm	mm (St37)					Part No.	mm	Part No.
19.5 x 16.3	2.0	Hand/Hydr.	52020113	50347330	50046381	50339672	12.7	50610861
20.2 x 17.6	2.0	Hand/Hydr.	52020113	50347330	50046381	50339672	12.7	50610892
23.2 x 19.2	2.0	Hand/Hydr.	52020113	50347330	50046381	50339672	12.7	50610922
23.2 x 20.2	2.0	Hand/Hydr.	52020113	50347330	50046381	50339672	12.7	50610953
34.9 x 28.6	2.0	Hand/Hydr.	50601660	50601652	50602586	50601679	23.8	50600982

Keyway punch



Suitable for

- Mild steel (St37), plastic and aluminium to 2.0 mm

Operation

- Manual / hydraulic

Predrilling

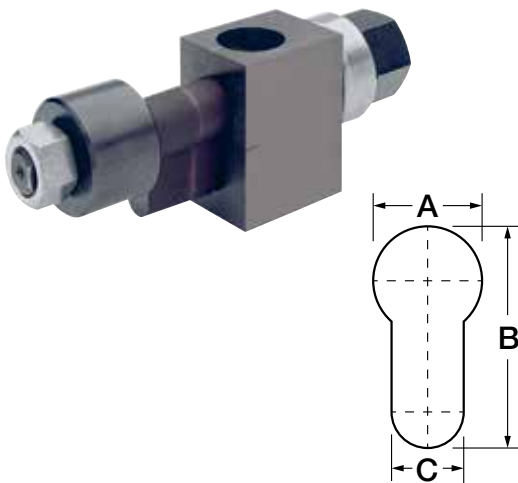
- 23.8 mm dia. pilot drill 50300083

Scope of supply

- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

Punch size A x B x C	Max. Material thickness	Operating mode	Individual parts for manual operation			Adapter for hydr. punch driver	Mounting hole-dia. mm	Komplettlocher
			Draw studs	Ball bearing nut	Counter nut			
mm	mm (St37)					Part No.	mm	Art.-Nr.
12.2 x 1.4 x 0.8	1.5	Hand/Hydr.	50601156	50601202	50052446	50601148	9.5	50601016

Profile cylinder punch



Suitable for

- Mild steel (St37) up to 2.0 mm and aluminium up to 3.5 mm thick

Operation

- Manual / hydraulic

Predrilling

- 12.7 mm dia. pilot drill 50344102

Scope of supply

- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

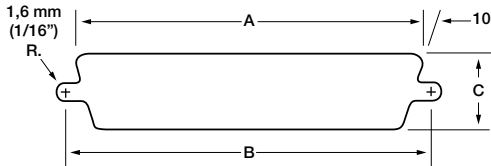
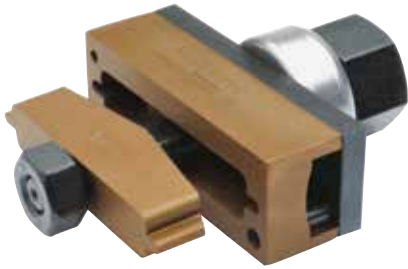
Punch size A x B x C	Max. Material thickness	Operating mode	Individual parts for manual operation				Adapter for hydr. punch driver	Mounting hole-dia. mm	Komplettlocher
			Draw studs	Ball bearing nut	Counter nut	Spacer bushing			
mm	mm (St37)						Part No.	mm	Art.-Nr.
17.0 x 33.3 x 10.5	2.0	Hand/Hydr.	50053043	50347330	90500113	50053051	50339672	12.7	50053078



Punching

Round and special shape punches

Sub-Min „D“ punch



Suitable for

- Mild steel (St37) up to 2.0 mm and aluminium up to 3.5 mm thick
- Front or rear mounting

Operation

- Manual / hydraulic

Predrilling

- 12.7 mm dia. pilot drill 50344102

Scope of supply

- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

Standard	Number Pole	Operating mode	Dimension			Individual parts for manual operation			Adapter for hydr. punch driver	Complete unit
			A mm	B mm	C mm	Draw studs	Ball bearing nut	Counter nut	Part No.	Part No.
229	9	Hand/hydr.	20.0	24.9	11.9	52020113	50347330	50046381	50339672	50344366
231	15	Hand/hydr.	28.6	33.3	11.9	52020113	50347330	50046381	50339672	50344374
RS232	25	Hand/hydr.	42.0	47.1	11.9	52020113	50347330	50046381	50339672	50344200
234	37	Hand/hydr.	58.3	63.4	11.9	52020113	50347330	50046381	50339672	50344293
238	50	Hand/hydr.	55.9	61.0	14.7	52020113	50347330	50046381	50339672	50344447

Special shape punch for heavy duty connectors with 4 centre mark points



Characteristics

- Rectangular punches for heavy duty connectors feature a drilling jig built into the die, for drilling the 4 locating holes.

Suitable for

- Mild steel (St37) to 3.0 mm thick and aluminium to 3.5 mm

Operation

- Hydraulic

Predrilling

- 30.2 mm dia. pilot drill 50364146

Scope of supply

- Punch unit including punch, die, draw stud and counter nut

Item	Punch size A x B mm	Max. Material thickness mm	Operating mode	Individual parts for manual operation		Mounting hole-dia. mm	Complete unit Part No.
				Draw studs	Counter nut		
Special shaped punch for heavy duty connectors, 6-pin, 36 x 52 mm	36.0 x 52.0	3.0	Hydraulic	52046100	52046101	30.2	52033816
Special shaped punch for heavy duty connectors, 10-pin, 36 x 65 mm	36.0 x 65.0	3.0	Hydraulic	52046100	52046101	30.2	52033817
Special shaped punch for heavy duty connectors, 16-pin, 36 x 86 mm	36.0 x 86.0	3.0	Hydraulic	52046100	52046101	30.2	52033818
Special shaped punch for heavy duty connectors, 24-pin, 36 x 91 mm	36.0 x 91.0	3.0	Hydraulic	52046100	52046101	30.2	52033819
Special shaped punch for heavy duty connectors 36 x 112 mm	36.0 x 112.0	3.0	Hydraulic	52046100	52046101	30.2	52033820
Special shaped punch for heavy duty connectors 46 x 86 mm	46.0 x 86.0	3.0	Hydraulic	52046100	52046101	30.2	52033831
Special shaped punch for heavy duty connectors 46 x 112 mm	46.0 x 112.0	3.0	Hydraulic	52046100	52046101	30.2	52033832
Special shaped punch HAN Yellock® 30 with 4 centre mark points 47.2 x 85.5 mm	47.2 x 85.5	3.0 / 3.0 VA	Hydraulic	52046100	52046101	30.2	52058592



Punching

Round and special shape punches

Draw studs for shaped punch

Order info

- To increase the service life, we recommend greasing the draw studs with Greenlee installation paste no. 50115472
- Sizes given are diameter x length
- Subject to tolerance deviations



Size	Part No.
19x150 mm	52046100



Size	Part No.
9.5 x 135 mm	50053043



Size	Part No.
12.7 x 117 mm	50601172



Size	Part No.
12.7 x 117 mm	50601660



Size	Part No.
6.3 x 87 mm	50601156



Size	Part No.
9.5 x 88 mm	52020113

SAVE TIME AND MONEY - WITH EVERY PUNCH!

From the leaders in knockout technology comes the new SPEED PUNCH™ System. The patent pending “no-thread” design eliminates cross-threading, while the innovative SPEED LOCK mechanism quickly secures the punch in place. This means longer tool life and faster punches, saving you time and money on the job. SPEED PUNCH™ is available in ISO 16 to ISO 63 and PG 16 metric sizes and two kit configurations.



**UP TO
3X
FASTER**

**SPEED
PUNCH**

5

▶ Speed Punch - saves time and money

- SPEED LOCK mechanism quickly secures the entire system in place: Punch more holes in less time.
- “No-thread” punch design quickly and easily slides on/off draw stud.
- The fastest punch system on the market today.
- Matched die heights eliminate need for additional spacers.
- Fewer extra parts to lose on the job site.
- No more thread damage and costly down time.

▶ Simplified punching processes

- Standard draw stud end
- Works with your existing hydraulic and battery-operated punch drivers.

LS50 FLEX

- ▶ In combination with the hydraulic punching tool LS 50 Flex it represents the state of the art in performance and speed.

THE ADVANTAGE IN PUNCHING - PUNCHING TOOLS AND SETS

Greenlee punching tools are quick. No matter whether for straight punchings in steel (St37) and stainless steel or confined areas with swivelling head: Greenlee equips you with the right set for every situation. Combined with the Speed Punch, the quickest and most-efficient punching system in our range puts you in pole position. Take the lead in punching!

**NEXT
GENERATION**



In brief

- ▶ Always ready for use due to short battery-charging times
- ▶ Heads rotatable through 360° for optimised work ergonomics
- ▶ No fatigue due to low weight
- ▶ 3x quicker punching with the Speed Punch system

► The fast one: LS 50 FLEX

The LS 50 FLEX is not just fast. It is integrally designed and produced. It is fully re-charged and ready for use in just 22 minutes. Ergonomic design and a balanced centre of gravity support you when working over long periods of time. The head rotates through 360° and reliably punches in confined areas. Combine the LS 50 FLEX with the Speed Punch system for even faster operations. There's no faster punching than this.

- Can be used for steel (St37) and stainless steel
- Ergonomic design for effortless operations
- Automatic final switch-off for even longer service life of the hole punch
- 22 min. to recharge the battery
- Integrated LED illuminates the work position
- Head rotates through 360°
- Can be combined with Speed Punch punch system for maximum punch speed



► Speed Punch set

Punching is up to three times quicker with the Speed Punch. The threadless stamp profile can be quickly replaced via a clamp technology - no more screwing the counter nut on and off. The set contains everything you need for the Speed Punch.

- Speed Punch set ISO 16 - 63, including accessories for hydraulic activation
- For all standard steel sheet
- High-quality plastic transport case for optimum product protection

► Slug Buster® set ISO 16 - 40

The Slug Buster from Greenlee separates the punch remnants automatically so that they fall from the die by themselves. No jamming or time-consuming removal of the punch remnants. The set comprises all components of the punching system.

- Slug Buster system including accessories
- Including ratchet wrench for manual activation
- Pilot drill included
- High-quality plastic transport case for optimum product protection



KWSET, Keyway punch for hydraulic use



Characteristics

- Compatible with all Greenlee hand-operated and battery powered hydraulic punches
- Simple handling

suitable for

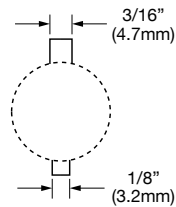
- Mild steel (St37) to 2.5 mm thickness
- Stainless steel to 2.5 mm thickness
- 19mm, 3/4" threaded draw stud

Additional information

- When using the Quick Draw Series or LS50Flex, short spacer (part no. 50032488) is required

Item	Part No.	
KWSET	52086978	
Accessory	Part No.	Page
Spare Punch Kit for KWSET	52086956	
Spare Spring Kit for KWSET	52086957	
Spare Die Kit for KWSET	52086955	

Keyway punch



- ▶ Time-saving punching of slots for anti-twist protected parts
- ▶ Long service life

Suitable for

- Mild steel (St37) to 3 mm thick
- Manual operation

Item	Part No.	
Keyway punch	50265342	
Accessories	Part No.	Page
Spare punch for keyway punch	50265369	
Spare die for keyway punch	50265385	

Hydraulic punch Quick Draw 90™ 7904E



- ▶ Ideal for fast, straight-on front panel punching
- ▶ Head rotates 180° for maximum flexibility
- ▶ Very robust

Characteristics

- Compact design
- Hand hydraulic punch driver with 90° head

Suitable for

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

Additional information

- Accompanying draw studs to 64 mm ST37 are suitable

Technical data		
Dimension	312 x 110 x 65 mm	
Punching force	80 kN	
Weight	3.4 kg	
Item	Part No.	
Quick Draw 90™ 7904E	50342991	
Scope of supply	Part No.	Page
Hand hydraulic punch 7904E	50337866	
Draw stud for punch with hydraulic operation 9.5 x 71 mm	51300430	
Draw stud for hydraulic operation 19.0 x 105 mm	52085691	420
Spacer, short	50032488	
Adapter 19.0 x 48 mm with internal thread 9.5 mm	50339672	426
Plastic case	50352024	

Hydraulic punch driver Quick Draw™ 7804E



- ▶ Ideal for fast, straight-on front panel punching
- ▶ Compact design
- ▶ Very robust

Characteristics

- Hand hydraulic punch driver with straight head

Suitable for

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

Additional information

- Accompanying draw studs to 64 mm ST37 are suitable

Technical data		
Dimension	321 x 110 x 70 mm	
Punching force	80 kN	
Weight	2.5 kg	
Item	Part No.	
Quick Draw™ 7804E	50342916	
Scope of supply	Part No.	Page
Hand hydraulic punch 7804E	50342886	
Draw stud for punch with hydraulic operation 9.5 x 71 mm	51300430	
Draw stud for hydraulic operation 19.0 x 105 mm	52085691	420
Spacer, short	50032488	
Adapter 19.0 x 48 mm with internal thread 9.5 mm	50339672	420
Plastic case	50352024	



Manual hydraulic punch



► Flexible head for multi-purpose use even in confined areas

Characteristics

- Rotatable/Swivel

Suitable for

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

Additional information

- Hand-operated hydraulic punch incl. draw stud, pilot drill and spacer in plastic case
- Without hole
- Accompanying draw studs to 64 mm ST37 are suitable

Technical data

Dimension 340 x 150 x 85 mm

Punching force 80 kN

Weight 2.2 kg

Revolving/rotatable 360°

Item	Part No.	
Manual hydraulic punch	52033843	
Scope of supply	Part No.	Page
Draw stud for hydraulic operation 9.5 mm to 19 mm, 122 mm	52042827	
HSS Co5 step bit	52049371	459
Spacer, short	50032488	
Plastic case		

LS 50 FLEX battery powered hydraulic punching tool

**NEXT
GENERATION**



- ▶ High flexibility using 360° rotating head
- ▶ An integrated pressure sensor increases the service life of the hole punch
- ▶ Automatic stop makes the punching tools last longer

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Balanced centre of gravity for easy handling and effortless operations
- LED for work area illumination
- Energy saving function with motor cut-out after successful operation
- Manual retract as required
- Always ready-to-use thanks to battery charge and service display

Technical data	
Punching force	60 kN
Weight	2.1 kg
Charging time	15 min.
Punching time	5 s at 22.5 mm dia., 3 mm mild steel 6 s at 63.5 mm dia., 3 mm mild steel
Ambient temperature	-15 °C up to +40 °C
Dimensions	340 x 115 x 80 mm
Punching capacity	120 punch operations at 22.5 mm dia., 3.4 mm mild steel 190 punch operations at 22.5 mm dia., 3 mm mild steel 280 punch operations at 22.5 mm dia., 2.5 mm mild steel

Item	Part No. Bosch	Part No. Makita	
LS 50 FLEX battery powered hydraulic punching tool	LS50FLEXCFB	LS50FLEXCFM	
Lieferumfang			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Draw stud for hydraulic operation 19.0 x 105 mm	52085691	52085691	420
Spacer 22 mm, short	50032488	50032488	
HSS Co5 step bit	52049371	52049371	459
Adapter 19.0 x 48 mm with internal thread 9.5 mm	50339672	50339672	420
Draw stud for punch with hydraulic operation 9.5 x 71 mm	51300430	51300430	420
Plastic case	KK50FLEXNG	KK50FLEXNG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483
Variants			Page
L-BOXX with flexible battery powered hydraulic punch LS50FLEXCFB	LBOXXLS50FLEXCFB		203
L-BOXX with flexible battery powered hydraulic punch LS50FLEXCFM		LBOXXLS50FLEXCFM	203



LS 100 FLEX battery powered hydraulic punching tool

**NEXT
GENERATION**



- ▶ High flexibility using rotating head
- ▶ An integrated pressure sensor increases the service life of the hole punch
- ▶ Automatic stop makes the punching tools last longer

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Balanced centre of gravity for easy handling and effortless operations
- LED for work area illumination
- Energy saving function with motor cut-out after successful operation
- Changeable modes for automatic or manual retraction
- Always ready-to-use thanks to battery charge and service display

Additional information

- When used with Speed Punch use the following draw studs: 52066000 (to ISO 25), 50032488, 52058897 (from ISO 25)



Technical data	
Punching force	100 kN
Weight	2.7 kg
Charging time	15 min.
Punching time	5 s at 22,5 mm dia., 3 mm mild steel 6 s at 63,5 mm dia., 3 mm mild steel
Ambient temperature	-15° up to +40 °C
Dimensions	370 x 120 x 80 mm
Punching capacity	St37 max.: 152.4 mm at a material thickness of 3 mm V2A max.: 104.8 mm at a material thickness of 3 mm

Item	Part No. Bosch	Part No. Makita	
LS 100 FLEX battery powered hydraulic punching tool	LS100FLEXCFB	LS100FLEXCFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		458
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Draw stud for hydraulic operation 19.0 x 137 mm	52085692	52085692	420
Draw stud for hydraulic operation 9.5 mm to 19 mm, 122 mm	52042827	52042827	420
Spacer, short	50032488	50032488	
HSS Co5 step bit	52049371	52049371	459
Plastic case	KK50FLEXNG	KK50FLEXNG	

Hydraulic punch with hand pump



► Compact design

Characteristics

- With hand pump, hose and cylinder

Suitable for

- All punches up to 144.1 mm round and 138 x 138 mm square
- St37 up to 3.5 mm and 3.5 mm V2A (depending on punch size)

Operation

- Hydraulic

Additional information

- When used with Speed Punch use the following draw studs: 52066000 (to ISO 25), 50032488, 52058897 (from ISO 25)
- Draw stud 52085689 11.1 mm to 19mm, used for 22.5mm Pg16 SB-Punch*52085633, or 22.5mm Pg16 SR-Punch* 52085634.
*Suitable for mild steel 2.5mm / stainless steel 2mm

Technical data		
Punching force	110 kN	
Weight	8.3 kg	
Item	Part No.	
Hydraulic punch with hand pump	52084920	
Scope of supply	Part No.	Page
Hydraulic cylinder	50170910	
767 Hydraulic hand pump	50132849	482
Hydraulic hose 6.4 mm dia. x 0.9 m	50383167	
Draw stud for hydraulic operation 19.0 x 137 mm	52085692	
Draw stud for hydraulic operation 11.1 mm to 19 mm, 127 mm	52085689	

Hydraulic punch with foot pump



Characteristics

- With foot pump, hose and cylinder

Suitable for

- Up to 144.1 mm round and 138 x 138 mm square
- St37 up to 3.5 mm and 3.5 mm V2A (depending on punch size)

Operation

- Hydraulic

Additional information

- When used with Speed Punch use the following draw studs: 52066000 (to ISO 25), 50032488, 52058897 (from ISO 25)
- Draw stud 52085689 11.1 mm to 19mm, used for 22.5mm Pg16 SB-Punch*52085633, or 22.5mm Pg16 SR-Punch* 52085634.
*Suitable for mild steel 2.5mm / stainless steel 2mm

Technical data		
Punching force	110 kN	
Weight	15.2 kg	
Item	Part No.	
Hydraulic punch with foot pump	52084941	
Scope of supply	Part No.	Page
Hydraulic cylinder	50170910	
1725 Hydraulic foot pump	50313533	482
Hydraulic hose 6.4 mm dia. x 3 m	50377299	
Draw stud for hydraulic operation 19.0 x 137 mm	52085692	
Draw stud for hydraulic operation 11.1 mm to 19 mm, 127 mm	52085689	



Punching

Punching tools and sets

Thread grease



- ▶ Increases the service life
- ▶ Prevents "seizing"
- ▶ Screw and nut threads resistant to wear

Suitable for

- Statically and dynamically high stressed thread connections

Item	Part No.
Draw stud thread grease, 30 g	50115472

Slug Buster® punch set for all applications from ISO 16 - 40



Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm

Operation

- Manual

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Item	Part No.	
Slug Buster® punch set ISO 16 to 40	50366920	
Scope of supply	Part No.	Page
Slug Buster® punch set ISO 16/20/25/32/40	50356178SET	455
Draw studs for manual operation 9.5 x 40 mm	50000420	419
Draw studs for manual operation 19.0 x 55 mm	50040405	419
Ratchet	50349414	
Kwik Stepper™ step bit 9.7 mm	50360183	458
Plastic case	50366858	

Slug Buster® punch set for all applications from PG 9 to PG 21 and 30.5 mm



Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm

Operation

- Manual

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Item	Part No.	
Slug Buster® punch set PG 9 to PG 21 and 30.5 mm	50366904	
Scope of supply	Part No.	Page
Slug Buster® punch set PG 9 - 21, 30.5 mm	50323989SET	446
Draw studs for manual operation 9.5 x 40 mm	50000420	419
Ratchet	50349414	
Kwik Stepper™ step bit 9.7 mm	50360183	458
Plastic case	50366858	

Slug Buster® punch set for ISO 16 - 63



Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm

Operation

- Manual

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Item	Part No.	
Slug Buster® punch set ISO 16 to 63	50366939	
Scope of supply	Part No.	Page
Slug Buster® punch set ISO 16 - 63	50068920SET	445
Draw studs for manual operation 9.5 x 40 mm	50000420	419
Draw studs for manual operation 19.0 mm x 75 mm	50040421	
Ratchet	50349414	
Kwik Stepper™ step bit 9.7 mm	50360183	458
Plastic case	50366858	



Punching

Punching tools and sets

Slug Buster® punch set for all applications from PG 9 - 48 and 30.5 mm



Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm

Operation

- Manual

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Item	Part No.	
Slug Buster® punch set PG 9 to PG 48 and 30.5 mm	50366912	
Scope of supply	Part No.	Page
Draw studs for manual operation 9.5 x 40 mm	50000420	419
Draw studs for manual operation 19.0 x 55 mm	50040405	419
Ratchet	50349414	
Slug Buster® punch set PG 9 - 48, 30.5 mm	50328034SET	446
Plastic case	50366858	

Speed Punch™ Set ISO 16 – 40



- ▶ Up to 3-times faster than conventional punching tools
- ▶ Easy and quick handling as the screwing and unscrewing of the counter nut is not required
- ▶ Compatible with all Greenlee hand-operated and battery powered hydraulic tools
- ▶ No greasing of the draw stud required

Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm
- LS50Flex and Quick Draw

Operation

- Hydraulic

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Scope of supply

- Complete system including draw stud, cramp, punch and die incl. plastic case

Item	Part No.	
Speed Punch™ punch set ISO 16/20/25/32/40	52055439SET	
Scope of supply	Part No.	Page
Punch and die ISO 16 (16.2 mm)	52055431	418
Punch and die ISO 20 (20.4 mm)	52055432	418
Punch and die ISO 25 (25.4 mm)	52055434	418
Punch and die ISO 32 (32.5 mm)	52055435	418
Punch and die ISO 40 (40.5 mm)	52055436	418
Speed Lock and draw stud 9.5 mm for ISO 16/20/25 and PG 16	52055439	418
Speed Lock and draw stud 19.0 mm for ISO 32/40/50/63	52055440	418
Plastic case	KKSPISO16B63	
Accessories	Part No.	Page
Plastic case	KKSPISO16B63	

Speed Punch™ Set ISO 16 – 63



- ▶ Up to 3-times faster than conventional punching tools
- ▶ Easy and quick handling as the screwing and unscrewing of the counter nut is not required
- ▶ Compatible with all Greenlee hand-operated and battery powered hydraulic tools
- ▶ No greasing of the draw stud required

Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm
- LS50Flex and Quick Draw

Operation

- Hydraulic

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Scope of supply

- Complete system including draw stud, cramp, punch and die incl. plastic case

Item	Part No.	
Speed Punch™ Set ISO 16 – 63	52055440SET	
Scope of supply	Part No.	Page
Punch and die ISO 16 (16.2 mm)	52055431	418
Punch and die ISO 20 (20.4 mm)	52055432	418
Punch and die ISO 25 (25.4 mm)	52055434	418
Punch and die ISO 32 (32.5 mm)	52055435	418
Punch and die ISO 40 (40.5 mm)	52055436	418
Punch and die ISO 50 (50.8 mm)	52055437	418
Punch and die ISO 63 (64.0 mm)	52055438	418
Speed Lock and draw stud 9.5 mm for ISO 16/20/25 and PG 16	52055439	418
Speed Lock and draw stud 19.0 mm for ISO 32/40/50/63	52055440	418
Plastic case	KKSPISO16B63	
Accessories	Part No.	Page
Plastic case	KKSPISO16B63	

Slug-Splitter® punch set (stainless steel) ISO 16 - 40



- ▶ Unique punch profile
- ▶ Split slugs fall free and can be removed easily

Suitable for

- Stainless steel (V2A), mild steel (St37), plastic and aluminium up to 3.5 mm thick

Operation

- Hydraulic

Predrilling

- Draw stud 19 mm dia., pilot drill 20.5 mm dia. 50344030
draw stud 11.1 mm dia., pilot drill 12.7 mm dia. 50344102

Item	Part No.	
Slug-Splitter® punch set (stainless steel) ISO 16/20/25/32/40	50766803	
Scope of supply	Part No.	Page
Slug-Splitter® punch (stainless steel) 16.2 mm	50069527	417
Slug-Splitter® punch (stainless steel) 20.4 mm	50069543	417
Slug-Splitter® punch (stainless steel) 25.4 mm	50069560	417
Slug-Splitter® punch (stainless steel) 32.5 mm	50069594	417
Slug-Splitter® punch (stainless steel) 40.5 mm	50069616	417
Draw stud for hydraulic operation 11.1 mm to 19 mm, 108 mm	50294512	420
Draw stud for hydraulic operation 19 x 140 mm	50294520	420
Plastic case	KKSSISO16B63	

Slug-Splitter® punch set (stainless steel) ISO 16 - 63



- ▶ Unique punch profile
- ▶ Split slugs fall free and can be removed easily

Suitable for

- Stainless steel (V2A), mild steel (St37), plastic and aluminium up to 3.5 mm thick

Operation

- Hydraulic

Predrilling

- Draw stud 19 mm dia., pilot drill 20.5 mm dia. 50344030
draw stud 11.1 mm dia., pilot drill 12.7 mm dia. 50344102

Item	Part No.	
Slug-Splitter® punch set (stainless steel) ISO 16/20/25/32/40/50/63	50766797	
Scope of supply	Part No.	Page
Slug-Splitter® punch (stainless steel) 16.2 mm	50069527	417
Slug-Splitter® punch (stainless steel) 20.4 mm	50069543	417
Slug-Splitter® punch (stainless steel) 25.4 mm	50069560	417
Slug-Splitter® punch (stainless steel) 32.5 mm	50069594	417
Slug-Splitter® punch (stainless steel) 40.5 mm	50069616	417
Slug-Splitter® punch (stainless steel) 50.8 mm	50069632	417
Slug-Splitter® punch (stainless steel) 64 mm	50069667	417
Draw stud for hydraulic operation 11.1 mm to 19 mm, 108 mm	50294512	420
Draw stud for hydraulic operation 19 x 140 mm	50294520	420
Plastic case	KKSSISO16B63	

Slug Buster® hand hydraulic punch driver set PG 9 - PG 21, 30.5 mm



Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm

Operation

- Hydraulic

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Item	Part No.	
Slug Buster® hand hydraulic punch driver set PG 9 to PG 21 and 30.5 mm	50356119SET	
Scope of supply	Part No.	Page
Hand hydraulic punch 7804E	50342886	
Draw stud for punch with hydraulic operation 9.5 x 71 mm	51300430	420
Draw stud for hydraulic operation 19.0 x 105 mm	50318721	420
Spacer, short	50032488	
Adapter 19.0 x 48 mm with internal thread 9,5 mm	50339672	420
Slug Buster® punch set PG 9 - 21, 30.5 mm	50323989SET	446
Plastic case	50352024	

Slug Buster® hand hydraulic 90° punch driver set PG 9 - PG 21, 30.5 mm



Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm thick

Operation

- Hydraulic

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Item	Part No.	
Slug Buster® hand hydraulic punch driver set PG 9 to PG 21 and 30.5 mm	50356151SET	
Scope of supply	Part No.	Page
Hand hydraulic punch 7904E	50337866	
Draw stud for punch with hydraulic operation 9.5 x 71 mm	51300430	420
Draw stud for hydraulic operation 19.0 x 105 mm	50318721	420
Spacer, short	50032488	
Adapter 19.0 x 48 mm with internal thread 9,5 mm	50339672	420
Slug Buster® punch set PG 9 - 21, 30.5 mm	50323989SET	446
Plastic case	50352024	

Slug Buster® hand hydraulic punch driver set ISO 16 - 40



Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm thick

Operation

- Hydraulic

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Item	Part No.	
Slug Buster® hand hydraulic punch driver set ISO 16 to 40	50356143SET	
Scope of supply	Part No.	Page
Hand hydraulic punch 7804E	50342886	
Draw stud for punch with hydraulic operation 9.5 x 71 mm	51300430	420
Draw stud for hydraulic operation 19.0 x 105 mm	50318721	420
Spacer, short	50032488	
Adapter 19.0 x 48 mm with internal thread 9,5 mm	50339672	420
Slug Buster® punch set ISO 16/20/25/32/40	50356178SET	445
Plastic case	50352024	

Slug Buster® hand hydraulic 90° punch driver set ISO 16 - 40



Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm thick

Operation

- Hydraulic

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Item	Part No.	
Slug Buster® hand hydraulic punch driver set ISO 16 to 40	50356160SET	
Scope of supply	Part No.	Page
Hand hydraulic punch 7904E	50337866	
Draw stud for punch with hydraulic operation 9.5 x 71 mm	51300430	420
Draw stud for hydraulic operation 19.0 x 105 mm	50318721	420
Spacer, short	50032488	
Adapter 19.0 x 48 mm with internal thread 9,5 mm	50339672	420
Slug Buster® punch set ISO 16/20/25/32/40	50356178SET	445
Plastic case	50352024	

Hand hydraulic punching set 90° ISO 16 - 40



- ▶ Flexible head for multi-purpose use even in confined areas

Suitable for

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

Item	Part No.	
Hand hydraulic punching set ISO 16 - 40	52034233	
Scope of supply	Part No.	Page
Slug Buster® punch set ISO 16/20/25/32/40	50356178SET	445
Draw stud for hydraulic operation 9.5 mm to 19 mm, 122 mm	52042827	420
Draw stud for hydraulic operation 19.0 x 105 mm	50318721	420
Spacer, short	50032488	
HSS Co5 step bit	52049371	459
Plastic case	KK520342333	

Slug Buster® punch set ISO 16 – 40



- ▶ For quick, clean, effortless and burr-free holes
- ▶ Split slugs fall free and can be removed easily

Suitable for

- Mild steel (St37), plastic and aluminium to 3.0 mm

Operation

- Manual

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Scope of supply

- Complete system including punch and die incl. plastic case

Item	Part No.	
Slug Buster® punch set ISO 16/20/25/32/40	50356178SET	
Accessories	Part No.	Page
Plastic case	KKISO16B63	

Slug Buster® punch set ISO 16 – 63



- ▶ Long product life
- ▶ Very easy to use

Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm

Operation

- Manual

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Scope of supply

- Complete system including punch and die incl. plastic case

Item	Part No.	
Slug Buster® punch set ISO 16/20/25/32/40/50/63	50068920SET	
Accessories	Part No.	Page
Plastic case	KKISO16B63	



Slug Buster® punch set PG 9 - 21, 30.5 mm



- ▶ Unique punch profile
- ▶ Split slugs fall free and can be removed easily

Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm

Operation

- Manual

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Scope of supply

- Complete system including punch and die incl. plastic case

Item	Part No.	
Slug Buster® punch set PG 9/11/13/16/21 and 30.5 mm	50323989SET	
Accessories	Part No.	Page
Plastic case	KKPG9B48	

Slug Buster® punch set PG 9 - PG 48, 30.5 mm



- ▶ Unique punch profile
- ▶ Split slugs fall free and can be removed easily

Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm

Operation

- Manual

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Scope of supply

- Complete system including punch and die incl. plastic case

Item	Part No.	
Slug Buster® punch set PG 9/11/13/16/21/29/36/48 and 30.5 mm	50328034SET	
Accessories	Part No.	Page
Plastic case	KKPG9B48	



FOR DEEP INCISIONS - HOLE SAWS

Clear the way for cables and electrical connections. Our Greenlee hole saws offer a long-term precise solution. Reinforced back plate reduces vibrations. Saving you effort and ensuring precise concentricity. HSS bi-metal hole saws are suitable for processing steel sheet, cast iron, brass and other materials.



In brief

- ▶ Reduced vibrations thanks to reinforced back plate
- ▶ Long service life due to high-performance steel
- ▶ Suitable for numerous materials
- ▶ For multi-functional use, please note our universal tools

► HSS bi-metal hole saws

No material is safe from the HSS bi-metal hole saws. Very hard high-performance steel (M 42) for clean and reliable prolonged operation.

- Precise cut with positive pitch
- Reinforced back plate reduces vibrations
- High true running accuracy

- Cooling slots for low heat build-up
- Saws up to a cut depth of 41.3 mm
- Improved service life due to tooth hardness Rc65-68
- Suitable for steel sheet, cast iron, brass, fibreglass, wood and plastic



► Set of hole saws: HSS bi-metal hole saw set

The hole saw set gives you all standard sizes tidily combined. Well sorted and perfectly protected.

- All standard sizes of hole saws
- Manufactured from M42 high-performance steel
- Including accessories
- Securely stowed in a robust case



HSS Bi-metal hole saws



- ▶ Vibration-reduction and high true running accuracy due to thick back section
- ▶ High-quality serration easily assured, precise cut
- ▶ Cooling slots ensure low heat build-up
- ▶ No canting when sawing

Characteristics

- High-quality, rake variable pitch design provides faster, easier cutting
- High true running accuracy
- Max. cutting depth 41.3 mm
- Tooth hardness Rc 65 - 68

Suitable for

- Mild steel, cast iron, brass, aluminium, fibreglass, wood, VA sheet and plastic

Additional information

- Arbors have to be ordered separately, not included in scope of supply

Punch size mm	Standard size Pg	Standard size ISO	Weight g	Recommended cutting speed r.p.m. for						Part No.
				steel sheet	tool and stainless steel	cast iron	non-ferrous metal	aluminium	wood	
14			46	580	300	400	790	900	800	50191314
15			46	580	300	400	790	900	800	52057722
16	Pg 9	ISO 16	46	550	275	365	730	825	760	52057723
17			46	500	250	330	665	750	720	52057724
18			46	500	250	330	665	750	720	52057725
19	Pg 11		46	460	230	300	600	690	680	52057726
20		ISO 20	46	445	220	290	580	660	640	52057727
21	Pg 13		46	425	195	280	560	635	580	52057728
22	Pg 16		46	390	195	260	520	585	560	52057729
23			46	380	190	250	510	570	540	52057730
24			46	370	185	245	494	555	520	52057731
25		ISO 25	46	350	175	235	470	525	500	52057732
26			46	325	160	215	435	480	500	52057733
27			46	300	150	200	400	450	450	52057734
28			46	300	150	200	400	450	450	52057735
29	Pg 21		91	285	145	190	380	425	430	52057736
30			91	270	140	180	360	410	410	52057737
32		ISO 32	91	270	140	180	360	410	410	52057738
33			46	250	125	165	330	375	370	52057739
35			46	240	120	160	315	360	30	52057740
36			91	240	120	160	315	360	30	52057741
37	Pg 29		91	230	115	150	300	345	330	52057742
38			91	220	110	145	290	330	310	52057743
40		ISO 40	91	210	110	140	280	315	290	52057744
41			91	205	105	135	270	305	270	52057745
42			137	205	105	135	270	305	270	52057746
43			91	195	100	130	260	295	250	52057747
44			91	190	95	125	250	285	230	52057748
45			91	190	95	125	250	285	230	52057749
46			137	180	90	120	240	270	210	52057750
48	Pg 36		91	180	90	120	240	270	210	52057751
50		ISO 50	91	170	85	115	230	255	200	52057752
51			137	165	80	110	220	245	200	52057753

Punch size mm	Standard size Pg	Standard size ISO	Weight g	Recommended cutting speed r.p.m. for						Part No.
				steel sheet	tool and stainless steel	cast iron	non-ferrous metal	aluminium	wood	
53			137	160	80	105	210	240	190	52057755
54	Pg 42		137	160	80	105	210	240	190	52057756
55			137	150	75	100	200	225	185	52057757
57			227	150	75	100	195	225	185	52057758
59			137	140	70	95	190	220	180	52057760
60	Pg 48		137	135	70	90	180	205	180	52057761
63		ISO 63	182	130	65	85	175	200	175	52057762
64			182	130	65	85	175	200	175	52057801
65			182	130	65	85	170	195	170	52057763
67			182	125	60	80	160	185	165	52057764
68			182	125	60	80	160	185	160	52057765
70			182	120	55	80	160	180	160	52057766
73			182	115	55	75	150	170	150	52057767
74			182	115	55	75	150	170	150	52057768
75			227	115	55	75	150	170	150	52057769
76			227	110	55	70	140	165	145	52057770
79			227	120	55	70	140	165	165	52057802
80			227	110	55	70	140	165	145	52057771
83			273	105	50	70	140	155	140	52057773
86			273	100	50	65	130	150	135	52057774
89			273	95	45	65	130	145	130	52057775
92			273	95	45	60	120	130	120	52057776
95			318	95	45	60	120	135	110	52057777
98			318	90	40	60	120	135	110	52057778
102			318	85	10	55	110	130	100	52057779
105			363	80	40	55	110	120	110	50191772
108			363	80	40	55	110	120	110	50191780
111			363	80	40	50	100	120	110	50191799
114			409	75	40	50	100	105	100	50191802
121			499	75	35	50	95	95	100	50191810
127			545	65	35	45	90	90	100	50191829
140			545	60	35	35	85	85	100	50191837
152			636	55	35	35	75	75	100	50191845
168			701	55	35	35	68	65	100	52057803
177			728	55	35	35	65	65	100	52057804
210			820	55	35	25	55	55	100	52057805

HSS Bi-metal hole saw set



- ▶ Saves time thanks to low vibration and heat development
- ▶ Variable pitch for an uniform cut
- ▶ Requires minimal effort when drilling

Characteristics

- High true running accuracy
- Less effort when cutting

Suitable for

- Metal, brass, fibreglass, non-ferrous metal, cast iron, aluminium, wood and plastics, stainless steel sheet

Item	Part No.
HSS bi-metall hole saw set Elektro II	52059292SET
HSS bi-metal universal hole saw set	52059293SET
HSS bi-metal hole saw set ISO 16 to 63	50069497SET
HSS bi-metal plumbing hole saw set	52059294SET
HSS bi-metal hole saw set (830 PG)	50292099SET
HSS bi-metal electrical hole saw set	52059295SET
Electro set with countersink 35/68/75 mm	50125630SET

Description	Nominal size mm	Standard size		Hole set						
		Pg	ISO	52059292SET Elektro II	52059293SET Universal	50069497SET ISO 16-63	52059294SET Plumbing	50292099SET 830PG	52059295SET Standard	50125630SET Elektro
Bi-metal hole saw	16	Pg 9			●			●	●	
	17		ISO 16			●				
	19	Pg 11			●		●	●	●	
	21	Pg 13	ISO 20			●		●		
	22	Pg 16		●	●			●	●	
	24						●			
	25		ISO 25		●	●				
	29	Pg 21		●	●		●	●	●	
	30							●		
	33		ISO 32			●				
	35			●	●				●	●
	37	Pg 29						●		
	38				●		●			
	41		ISO 40			●				
	44			●	●		●		●	
	48	Pg 36						●		
	51		ISO 50	●	●	●				
	52								●	
	57						●		●	
	60	Pg 48						●		
	63		ISO 63	●	●	●				
	67						●		●	
	68			●						●
	75									●
	76				●					
Countersink for Hole Saw 68 mm										●
Arbor 14 to 30 mm				●	●	●	●	●	●	
Arbor 32 to 152 mm				●	●	●	●	●	●	●
Case				●	●	●	●	●	●	●

Electro set with countersink



Characteristics

- Countersink with two specially-hardened cutting teeth

Suitable for

- Steel, non-ferrous metal, aluminium, cast iron, stainless steel, wood, plastic and building materials

Scope of supply

- Consisting of hole saws 35 mm, 68 mm, 75 mm, countersink for 68 mm hole saw, arbor with pilot drill and counter nut for hole saws 32 - 152 mm and spare HSS pilot drill 6.35 mm dia.

Item	Part No.	
Electro set with countersink 35/68/75 mm	50125630SET	
Scope of supply	Part No.	Page
HSS bi-metal hole saw 35 mm	52057740	450
HSS bi-metal hole saw 68 mm	52057765	451
HSS bi-metal hole saw 75 mm	52057769	451
Countersink for hole saws	52033839	
Arbor for HSS bi-metal hole saws 8.6 mm	52057781	454
Plastic case	52059258	



Arbor for HSS bi-metal hole saws 14 - 30 mm



Suitable for

- Sizes from 14 - 30 mm

Item	Part No.
Arbor 6.3 mm	50371576
Arbor for HSS bi-metal hole saws 7.9 mm	50385224
Arbor 8.6 mm	52057780
Arbor 11.1 mm	50371550

Arbor for HSS bi-metal hole saws 32 - 152 mm



Suitable for

- Sizes from 32 - 51 mm
- Sizes from 32 - 152 mm

Item	Part No.
Arbor 7.9 mm for HSS bi-metal hole saws 32 - 51 mm	50371541
Arbor 8.6 mm for HSS bi-metal hole saws 32 - 152 mm	52057781
Arbor 11.1 mm for HSS bi-metal hole saws 32 - 152 mm	50371568

SDS arbor for HSS bi-metal hole saws



Suitable for

- Sizes from 32 - 152 mm
- Sizes from 14 - 30 mm

Item	Part No.
SDS arbor for HSS bi-metal hole saws 14 - 30 mm	50069691
SDS arbor for HSS bi-metal hole saws 32 - 152 mm	50069292

Replaceable pilot drill for arbor HSS bi-metal hole saws



Item	Part No.
Replaceable pilot drill for arbor HSS bi-metal hole saws	52057782



SIMPLE DRILLING – EVERYTHING IN ONE OPERATION

Greenlee bits are produced using the latest CNC technology. The benefit to you is clear: Clean cutting edges produce longer and better cutting operations from the very first use. That saves you effort. The two-sided deburring of the edge breaker saves you time. The Rotastop system on the shank prevents the bit from slipping through in the chuck. That's how drilling is done today.



In brief

- ▶ Perfect cutting performance in the first pass
- ▶ Rotastop prevents the bit slipping through
- ▶ Split point requires less effort

► Kwik Stepper with Rotastop

Years of experience and development have gone into this bit. The Kwik Stepper drills not only burr-free with optimum swarf removal, the spiral groove also reduces heat build-up during the drilling operation. This makes the Kwik Stepper especially durable. The Rotastop system holds the bit in place - without slipping through. Additionally, the split point reduces your effort during the drilling operation. Great performance from just one bit.

- All required drilling ranges in one tool
- Rotastop for maximum torque transmission
- Quick bit change
- No slipping through in the chuck
- Spiral groove for improved cutting performance
- Two-sided burr removal
- Can be used for sheet, pipes, non-ferrous metals, stainless steel and plastics

► Performance in the set: Kwik Stepper set of step bits

To keep you flexible while drilling, we have combined all standard step bits in a practical set and accommodated them in a robust plastic box. Everything to hand.

- All common step bits
- Clear assignment of the bit through laser scaling of the step bit
- Robust plastic box with integrated pop-up hinge
- Easy to transport and store



Kwik Stepper™ step bit



- ▶ Minimum burr
- ▶ Long service life
- ▶ Good torque transmission
- ▶ Less effort when drilling

Suitable for

- Sheet, pipe, NF metal and plastic

Item	Drilling range dia. mm	Step sizes dia. mm	Total length mm	Number of steps	Shank dia. mm	Part No.
Kwik Stepper™ step bit 3.2 - 12.7 mm	3.2 - 12.7	3.2 / 4.0 / 4.8 / 5.6 / 6.4 / 7.1 / 7.9 / 8.7 / 9.5 / 10.3 / 11.1 / 11.9 / 12.7	80	13	6.34	52084123
Kwik Stepper™ step bit 4.8 - 12.7 mm	4.8 - 12.7	4.8 / 6.4 / 7.9 / 9.5 / 11.1 / 12.7	80	6	6.4	52084124
Kwik Stepper™ step bit 22.2 mm	22.2	22.2	85	1	9.5	52084128
Kwik Stepper™ step bit 4.8 - 22.2 mm	4.8 - 22.2	4.8 / 6.4 / 7.9 / 9.5 / 11.1 / 12.7 / 14.3 / 15.9 / 17.5 / 19.1 / 20.6 / 22.2	85	12	9.5	52084129
Kwik Stepper™ step bit 12.7 - 28.6 mm	12.7 - 28.6	12.7 / 22.2 / 28.6	57	3	9.5	52084131
Kwik Stepper™ step bit 22.2 - 34.9 mm	22.2 - 34.9	22.2 / 28.6 / 31.0 / 31.8 / 34.9	73	5	9.5	52084134
Kwik Stepper™ step bit 9.7 mm	9.7	Predrilling for Green- lee-Draw stud 9.7	40	1	6.4	50360183
Kwik Stepper™ step bit 12.7 mm	12.7	Predrilling for Green- lee-Draw stud 12.7	40	1	6.4	52084125
Kwik Stepper™ step bit Pg 7 - 21	Pg 7 - 21	Pg7 / Pg9 / Pg11 / Pg13 / Pg16 / Pg21	90	7	9.5	52084132
Kwik Stepper™ step bit ISO 16 - 32	ISO 16 - 32	ISO 16 / 20 / 25 / 32	80	4	9.5	52084133
Kwik Stepper™ step bit 19.1 mm	19.1	Predrilling for Green- lee-Draw stud	99	1	9.5	52084126
Kwik Stepper™ step bit 12 mm	12	Predrilling for Green- lee-Draw stud	99	1	4.4	52085453
Variants						Art.-Nr.
Kwik Stepper™ step bit set consisting of 52084123 + 52084129						52084141
Kwik Stepper™ step bit set consisting of 52084123 + 52084129 + 52084131						52085454

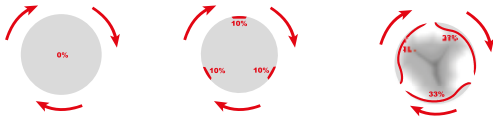
Kwik Stepper™ step bit with ROTASTOP® shaft



- ▶ ROTASTOP® guarantees best-possible torque transmission
- ▶ Minimal burr
- ▶ No slipping in the chuck with ROTASTOP®
- ▶ Long service life
- ▶ Requires minimum effort when drilling

Suitable for

- Reaming of steel sheets, pipes, non-ferrous metals and plastic



Item	Drilling range dia. mm	Step sizes dia. mm	Total length mm	Number of steps	Shank dia. mm	Part No.
Kwik Stepper™ step bit with ROTASTOP® shaft 4 - 12 mm	4 – 12	4.0 / 5.0 / 6.0 / 7.0 / 8.0 / 9.0 / 10.0 / 11.0 / 12.0	80	9	8.0	50069845
Kwik Stepper™ step bit with ROTASTOP® shaft 4 - 20 mm	4 – 20	4.0 / 6.0 / 8.0 / 10.0 / 12.0 / 14.0 / 16.0 / 18.0 / 20.0	67	9	8.0	50069853
Kwik Stepper™ step bit with ROTASTOP® shaft ISO 12 - 40 mm	6-21	6.0 / 8.0 / 10.0 / 11.5 / 12.5 / 14.5 / 17.0 / 21.0	67.5	8	8	52049371
Kwik Stepper™ step bit with ROTASTOP® shaft 6 - 30 mm	6 – 30	6.0 / 8.0 / 10.0 / 12.0 / 14.0 / 16.0 / 18.0 / 20.0 / 22.0 / 24.0 / 26.0 / 28.0 / 30.0	98	13	10.0	50069861
Kwik Stepper™ step bit with ROTASTOP® shaft 6 - 36 mm	6 – 36	6.0 / 9.0 / 12.0 / 15.0 / 18.0 / 21.0 / 24.0 / 27.0 / 30.0 / 33.0 / 36.0	85	11	12.0	50069870
Kwik Stepper™ step bit with ROTASTOP® shaft ISO 12 - 40 mm	ISO 12 - 40	For ISO 12 / 16 / 20 / 25 / 32 / 40	110	6	12.0	50069888



Kwik Stepper™ step bit set



- ▶ ROTASTOP® guarantees best-possible torque transmission
- ▶ Hardly any burr
- ▶ No slipping in the chuck with ROTASTOP®
- ▶ Long service life
- ▶ Requires minimal effort when drilling

Suitable for

- Reaming of steel sheets, pipes, non-ferrous metals and plastic

Item	Part No.	
Kwik Stepper™ step bit set	50069900	
Scope of supply	Part No.	Page
Kwik Stepper™ step bit with ROTASTOP® shaft 4 - 12 mm	50069845	459
Kwik Stepper™ step bit with ROTASTOP® shaft 4 - 20 mm	50069853	459
Kwik Stepper™ step bit with ROTASTOP® shaft 6 - 30 mm	50069861	459

Combi bit set M 3 - M 10



- ▶ Drill, tap and deburr in one operation

Suitable for

- For use with St37, non-ferrous metals, stainless steel and plastics

Item	Part No.	
Combi bit set in plastic cassette M 3 - M 10	50121510	
Scope of supply	Part No.	Page
Combi bit M3	50116312	
Combi bit M4	50116320	
Combi bit M5	50116339	
Combi bit M6	50116347	
Combi bit M8	50116355	
Combi bit M10	50116363	
Combi bit holder	50116371	

Metric SS DTAP Kit (PKG)



Suitable for

- For use with St37, non-ferrous metals, stainless steel and plastics

Item	Part No.	
Metric SS DTAP Kit (PKG)	52086846	
Scope of supply	Part No.	Page
Drill/Tap M3 x 0.50 (PKG)	52086840	
Drill/Tap M4 x 0.70 (PKG)	52086841	
Drill/Tap M5 x 0.80 (PKG)	52086842	
Drill/Tap M6 x 1.00 (PKG)	52086843	
Drill/Tap M8 x 1.25 (PKG)	52086844	
Drill/Tap M10 x 1.50 (PKG)	52086845	
Quick change adapter	50116371	

THE ALL-ROUNDER.

Sometimes, you need to be the jack-of-all-trades: Crimping, cutting, bending, punching and offsetting. With Klauke, you have every facility in just one tool.





Universal tools

Hand-operated hydraulic universal tool, hydraulic universal head	465
Battery powered universal tools	467
Bus bar tool centre	471



ONE TOOL FOR ALL SITUATIONS - UNIVERSAL TOOLS

Crimping, cutting or punching: Replaceable adapter and dies quickly adapt the tool to individual tasks. Low weight and powerful: Crimping up to 400 mm², cutting up to 40 mm diameter or punching up to 92 x 92 mm, no problem at all for the Klauke Multi.

The Klauke Multi: The right tool in every instance.

NEXT GENERATION



▶ Systematic crimping

All crimping dies from Klauke function with every Klauke tool. Crimp cable lugs with the Klauke series 5, 18 and 22 (6 t tools) and wide crimping with the series 13 (12 t tools). Differing crimp shapes and nominal cross-sections up to 400 mm² can be processed with just one tool.

- Can be used with dies series 5, 18 and 22 (6 t)
- Wide crimping with dies series 13 (12 t) possible
- Cross sections up to 400 mm²
- Simple adapter replacement

▶ The plus one: Hole punching

Retooling of hole punches is really simple with the Klauke multi. In conjunction with hole punch adapters from Greenlee, you can punch holes up to 64 mm round and max. 92 mm x 92 mm square.

▶ All-around cutting

Stay prepared for various materials. Cables from copper and aluminium are not a problem with appropriate cutting head, likewise for DIN-profile rails, threaded bars or railway catenary wires. Klauke universal tool cuts everything up to 40 mm diameter.

- Differing materials can be cut: Aluminium and copper cables, threaded rods, profile rails, railway catenary wires and open wire
- The right cutting dies for every application
- Cutting range up to 40 mm

▶ Solid in use

The Klauke universal tool can also be used for machining operations on solid bus bars and laminated bus bars up to 120 mm x 12 mm. Bending, punching, cutting and offsetting with one device that can be operated with the AHP700L and the electric pumps from Klauke.

HK 60 UNV Hand-operated hydraulic universal tool



- ▶ One head for crimping, cutting and punching - one tool for all
- ▶ Ideal in the assembly field where all common jobs can be carried out using one tool

Characteristics

- Universal head flip top style, rotatable
- Adapter for crimping dies of the Klauke Series 5, 18 and 22
- Various cutting dies for aluminium and copper conductors with and without armouring as well as Al/St-Cables (ACSR)
- Dies for cutting threaded rods and DIN rails
- Punching adapter for Greenlee punching tools
- Dies to punch DIN rails
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Automatic retraction when operation is complete

Technical instructions

- Interchangeable adapters and dies for crimping, cutting and punching you will find on page 470



Technical data		
Crimping force	60 kN	
Stroke	42 mm	
Crimping range	6 - 300 mm ²	
Cutting range	max. 40 mm dia.	
Punching capacity	up to 64 mm dia. round, up to 92 x 92 mm square	
Length	540 mm	
Weight	3.5 kg	
Ambient temperature	-20 °C to +40 °C	
Item	Part No.	
Hand-operated hydraulic universal tool	HK60UNV	
Scope of supply	Part No.	Page
Steel carrying case	MK60UNV	



Universal tools

Hand-operated hydraulic universal tool, hydraulic universal head

PK 60 UNV Hydraulic universal head



- ▶ One head for crimping, cutting and punching - one tool for all
- ▶ Ideal in the assembly field where all common jobs can be carried out using one tool
- ▶ For connecting to hydraulic pumps with 700 bar operating pressure for best possible crimping, cutting and punching results

Characteristics

- Universal head with quick coupling, 360° rotation when not pressurised, flip top style
- Various cutting dies for aluminium and copper conductors with and without armouring as well as Al/St-Cables (ACSR)
- Dies to punch DIN rails
- Adapter for crimping dies of the Klauke Series 5, 18 and 22

Technical instructions

- Interchangeable adapters and dies for crimping, cutting and punching you will find on page 470



Technical data	
Crimping force	60 kN
Stroke	42 mm
Crimping cycle	3 s to 5 s (depending on crimping cross-section)
Number of crimps	approx. 300 at 150 mm ² Cu DIN
Cutting range	max. 40 mm dia.
Number of cuts	approx. 110 at 4 x 70 mm ² NYY
Punching capacity	up to 64 mm dia. round, up to 92 x 92 mm square
Operating pressure	max. 700 bar
Length	350 mm
Weight	2.4 kg

Item	Part No.	
Hydraulic universal head	PK60UNV	
Scope of supply	Part No.	Page
Carrying bag	TT2	194

EKM 60 UNV Battery-powered hydraulic universal tool 6 - 300 mm²

**NEXT
GENERATION**



- ▶ One head for crimping, cutting and punching - one tool for all
- ▶ Ideal in the assembly field where all common jobs can be carried out using one tool
- ▶ All tool data on view thanks to display and i-press app
- ▶ Small and slim, perfect for cramped conditions

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Universal head flip top style, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete (crimping or cutting)
- Always ready-to-use thanks to battery charge and service display

Technical instructions

- Interchangeable adapters and dies for crimping, cutting and punching you will find on page 470



Technical data	
Crimping force	60 kN
Stroke	42 mm
Crimping range	6 - 300 mm ²
Crimping cycle	7 s up to 9 s (depending on cross-section)
Cutting range	max. 40 mm dia.
Punching capacity	up to 64 mm dia. round, up to 92 x 92 mm square
Charging time	15 min.
Weight	3.0 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita	
Battery-powered hydraulic universal tool 6 - 300 mm ²	EKM60UNVCFB	EKM60UNVCFM	
Scope of supply			Page
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU		484
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1	483
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Adapter for crimping dies of Series 22	UA22	UA22	470
Plastic case 450 x 370 x 105 mm	KKMUNVNG	KKMUNVNG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2	483
Variants			Page
L-BOXX with battery powered universal tool EKM60UNVCFB	LBOXXEKM60UNVCFB		203
L-BOXX with battery powered universal tool EKM60UNVCFM		LBOXXEKM60UNVCFM	203



Universal tools

Battery powered universal tools

EK 60 UNV Battery-powered hydraulic universal tool 6 - 300 mm²

**NEXT
GENERATION**



- ▶ One head for crimping, cutting and punching - one tool for all
- ▶ Ideal in the assembly field where all common jobs can be carried out using one tool
- ▶ Fast working due to 2-stage hydraulics
- ▶ All tool data on view thanks to display and i-press app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Universal head flip top style, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete (crimping or cutting)
- Always ready-to-use thanks to battery charge and service display

Technical instructions

- Interchangeable adapters and dies for crimping, cutting and punching you will find on page 470



Technical data	
Crimping force	60 kN
Stroke	42 mm
Crimping range	6 - 300 mm ²
Crimping cycle	3 s to 5 s (depending on cross-section)
Cutting range	max. 40 mm dia.
Punching capacity	up to 64 mm dia. round
Charging time	45 min.
Weight	4.8 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita	
Battery-powered hydraulic universal tool 6 - 300 mm ²	EK60UNVCFB	EK60UNVCFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case 450 x 370 x 105 mm	UA22	UA22	470
Adapter for crimping dies of Series 22	KK120UNVNG	KK120UNVNG	

EK 120 UNV Battery-powered hydraulic universal tool 10 - 400 mm²

**NEXT
GENERATION**



- ▶ One head for crimping, cutting and punching - one tool for all
- ▶ Ideal in the assembly field where all common jobs can be carried out using one tool
- ▶ All tool data on view thanks to display and i-press app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Universal head flip top style, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete (crimping or cutting)
- Always ready-to-use thanks to battery charge and service display

Technical instructions

- Interchangeable adapters and dies for crimping, cutting and punching you will find on page 470
















**K13
SERIE**

Technical data	
Crimping force	108 kN
Stroke	42 mm
Crimping range	10 - 400 mm ²
Crimping cycle	Depending on cable type
Cutting range	max. 40 mm dia.
Punching capacity	up to 144 mm dia. round, up to 138 x 138 mm square
Charging time	45 min.
Weight	6.5 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita	
Battery-powered hydraulic universal tool 10 - 400 mm ²	EK120UNVCFB	EK120UNVCFM	
Scope of supply			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU		486
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484
Makita quick-charger for 18 V Li-Ion battery		LGL1	486
Plastic case	KK120NG	KK120NG	
Accessories			Page
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU		485
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40	484



Interchangeable adapters and dies for crimping, cutting or punching

Part description	Part no.	Tools		
		6 ton	12 ton	
Application: crimping				
 Adapter for crimping dies series 5	UA5	●		
 Adapter for crimping dies series 13	UA12TKL		●	
 Adapter for crimping dies series 18	UA18	●		
 Adapter for crimping dies series 22	UA22	●		
Application: cutting				
 Cutting die for Al/Cu conductors to max. 40 mm dia.	UCACSR	●	●	
 Cutting die for Al/Cu conductors to max. 26 mm dia. (Not suitable for fine and superfine stranded conductors)	UC26	●	●	
	Cutting die for Al/Cu conductors to max. 40 mm dia. (Not suitable for fine and superfine stranded conductors)	UC40	●	●
 Cutting die for threaded rods	Cutting die for threaded rods M5 metric	UCM5	●	●
	Cutting die for threaded rods M6 metric	UCM6	●	●
	Cutting die for threaded rods M8 metric	UCM8	●	●
	Cutting die for threaded rods M10 metric	UCM10	●	●
	Cutting die for threaded rods M12 metric	UCM12	●	●
	Cutting die for threaded rods 1/4"	UCUNC14	●	●
	Cutting die for threaded rods 3/8"	UCUNC38	●	●
	Cutting die for threaded rods 1/2"	UCUNC12	●	●
 Cutting die for profile conductors	Cutting die for profile conductors 35 x 15	UCD3515	●	●
	Cutting die for profile conductors 32 x 15 x 9	UCD3215	●	●
	Cutting die for profile conductors 35 x 7.5	UCD3575	●	●
 Cutting die for profile conductors 2980	UCN2980	●	●	
 Cutting die for laminated Cu bus bars, max. width 37.5 mm	UCF	●	●	
 Cutting die for catenary wires	Cutting die 107 mm ² type AC for catenary wires in railway construction	UCAC107	●	●
	Cutting die 85 mm ² type BC for catenary wires in railway construction	UCBC85	●	●
	Cutting die 110 mm ² type BC for catenary wires in railway construction	UCBC110	●	●
	Cutting die 120 mm ² type BC for catenary wires in railway construction	UCBC120	●	●
	Cutting die 150 mm ² type BC for catenary wires in railway construction	UCBC150	●	●
Application: Punching				
 Hole punch adapter	Hole punch adapter for holes to 64 mm dia., 92 x 92 mm and 46 x 92 mm	UA6P	●	
	Hole punch adapter for holes to 144 mm dia., 138 x 138 mm and 68 x 138 mm	UA12P		●
 Die for punching DIN rails	Die for punching DIN rails 35 x 15; 32 x 15 x 9; 35 x 7.5	UPD6	●	

Bus bar tool centre



- ▶ Basic tool for bending, punching and cutting solid and laminated bus bars up to 120 x 12 mm
- ▶ Compact design and low weight

Suitable for

- Drive with EHP4 or AHP700-L

Additional information

- For drives with EHP4 the Part Number appendix „EHP4“ is required (50052241EHP4)
For drives with AHP700-L connector Sbz4 is required.

Technical data	
Crimping force	185 kN
Max. operating pressure	700 bar
Capacity	1.5 l / min.
Required oil volume	0.15 l
Dimension	480 x 500 x 360 mm
Weight	51 kg
Item	Part No.
Bus bar tool centre	50052241

Bending tool



- ▶ For Al/Cu materials to max. 120 x 12 mm
- ▶ Bending radius 5.00 mm

Characteristics

- Max. bending angle 100°

Technical data	
Weight	7.1 kg
Item	Part No.
Bending tool, 5.0 mm bending radius	50052250

Punching tool I



Characteristics

- Solid conductors from Al/Cu to max. 12 mm and steel to 10 mm thick

Suitable for

- Hole diameters from 6.5 - 21 mm

Technical data	
Weight	4.5 kg
Item	Part No.
Punching tool I	50052128

Punching tool I



Characteristics

- Solid conductors from Al/Cu to max. 12 mm and steel to 10 mm thick

Item	Part No.
Punch and die 6.5 mm dia.	50052276
Punch and die 8.5 mm dia.	50052284
Punch and die 11 mm dia.	50052292
Punch and die 13 mm dia.	50052306
Punch and die 15 mm dia.	50052314
Punch and die 17 mm dia.	50052322
Punch and die 21 mm dia.	50052330
Oblong punch and die 6.5 x 13 mm	50052349
Oblong punch and die 8.5 x 16 mm	50052357
Oblong punch and die 11 x 20 mm	50052365
Oblong punch and die 13 x 20 mm	50052373
Oblong punch and die 17 x 20 mm	50052381

Punching tool III



Characteristics

- Solid and laminated bus bars from Al/Cu to max. 12 mm and steel to 10 mm thick

Suitable for

- Hole diameters from 6.5 - 21 mm

Technical data	
Weight	4.5 kg
Item	Part No.
Punching tool III	50766919

Punch & die for punching tool III

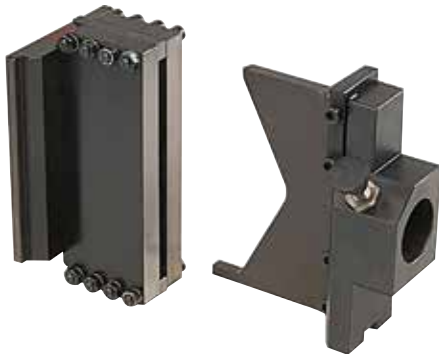


Characteristics

- Solid and laminated bus bars from Al/Cu to max. 12 mm and steel to 10 mm thick

Item	Part No.
Punch and die 6.5 mm dia.	50115286
Punch and die 8.5 mm dia.	50115294
Punch and die 11 mm dia.	50115308
Punch and die 13 mm dia.	50115316
Punch and die 15 mm dia.	50115324
Punch and die 17 mm dia.	50115332
Punch and die 21 mm dia.	50115340
Oblong punch and die 6.5 x 13 mm	50115359
Oblong punch and die 8.5 x 16 mm	50115367
Oblong punch and die 11 x 20 mm	50115375
Oblong punch and die 13 x 20 mm	50115383
Oblong punch and die 17 x 20 mm	50115391

Cutting tool



Characteristics

- For Al/Cu materials to max. 120 x 12 mm

Technical data	
Weight	5.3 kg
Item	Part No.
Cutting tool	50052144

Offset tool



Characteristics

- Workpiece offset 5, 6, 8, 10 and 12 mm by using insertion plates
- For Al/Cu materials to max. 120 x 12 mm

Technical data	
Dimension	175 x 90 x 135 mm
Weight	10.0 kg
Item	Part No.
Offset tool	50052152

Aluminium accessory box for punching tools, empty



Suitable for

- Storage of accessories

Technical data	
Dimension	350 x 250 x 200 mm
Weight	4.3 kg
Item	Part No.
Tool chest alu (empty)	50052160

THE RIGHT DRIVE FOR EVERY ACTIVITY.

Even when it comes to drive units, Klauke leaves nothing to chance. No matter where, when and how: Klauke hydraulic pumps give you the power you need.





Pumps

Pumps	476
Hydraulic pumps	477
Accessories for hydraulic tools	483





THE DRIVE - HYDRAULIC PUMPS AND DRIVE UNITS

With Klauke, everything fits together. Klauke hydraulic pumps provide every Klauke crimping, cutting and multi head with the required thrust. All pumps are matched to the various heads. They generate 700 bar pressure so that the tool can provide full power with every operation.



► Foot pressure actuation: Hydraulic foot pumps

Keep your hands free: With the steady hydraulic foot pumps, you can operate all crimping and cutting tools by your foot pressure. The 2-stage hydraulic system work especially efficiently.

- Foot pumps with up to 700 bar pressure
- 2-stage hydraulic system for efficient pumping effect
- Automatic pressure switch off
- Best possible convenience and good durability
- Up to 10 m hydraulic hose available

► Portable pressure: Battery-powered hydraulic pumps

Pumps wherever you want. Simply take our battery-powered hydraulic pump AHP 700-L along with shoulder strap or rucksack.

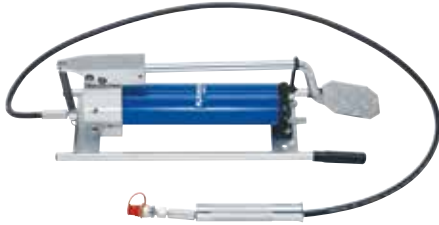
- Pumps delivering up to 700 bar pressure
- Compact dimensions for portable use
- Simple operation via hand switch with 1.5 m cable
- Display with reverse function
- Hydraulic hose up to 10 m long available

► Pressure with current: Electro-hydraulic pumps

Use the full force of your tools also with EHP 2, 3 or 4 electro-hydraulic drive.

- Power output up to 700 bar
- High capacity with compact dimensions
- Hydraulic hose up to 10 m long available

FHP 2 Foot pump 700 bar



- ▶ Two-stage hydraulics
- ▶ Manual retraction if required, also at high pressure
- ▶ Sturdy design

Characteristics

- Automatic pressure switch off

Suitable for

- The operation of hydraulic crimping and cutting heads

Technical data

Operating pressure max. 700 bar

Weight 12 kg

Item	Part No.	
Foot pump 700 bar	FHP2	
Scope of supply	Part No.	Page
Hydraulic hose, 2 m	HS22	489
Accessories	Part No.	Page
Hydraulic hose, 3 m	HS23	489
Hydraulic hose, 4 m	HS24	489
Hydraulic hose, 5 m	HS25	489
Hydraulic hose, 6 m	HS26	489
Hydraulic hose, 8 m	HS28	489
Hydraulic hose, 10 m	HS210	489

PHD 2 Pneumatic/hydraulic pressure transmitter, 700 bar



- ▶ Manual retraction if required, also at high pressure

Suitable for

- The operation of hydraulic crimping and cutting heads

Technical data

Required air pressure max. 6 bar

Operating pressure max. 700 bar

Weight 6.3 kg

Item	Part No.	
Pneumatic/hydraulic pressure transmitter	PHD2	
Scope of supply	Part No.	Page
Hydraulic hose, 2 m	HS22	489
Accessories	Part No.	Page
Hydraulic hose, 3 m	HS23	489
Hydraulic hose, 4 m	HS24	489
Hydraulic hose, 5 m	HS25	489
Hydraulic hose, 6 m	HS26	489
Hydraulic hose, 8 m	HS28	489
Hydraulic hose, 10 m	HS210	489

EHP 2 Electro hydraulic drive unit 400 V, 700 bar



► Compact dimensions and low weight combined with high conveying capacity

Characteristics

- With AC motor
- Hydraulic hose, 2 m
- Three-stage safety foot switch
- Electronic control
- 70 % power-on time

Suitable for

- The operation of hydraulic crimping and cutting heads

Technical data		
Version	Three-phase motor	
Rated output	0.55 kW	
Motor voltage	360 V - 440 V / 50 Hz	
Capacity	0.82 l / min.	
Operating pressure	max. 700 bar	
Weight	22.9 kg	
Operating mode	70 % power-on time	
Item	Part No.	
Electro-hydraulic pump, 400 V, 700 bar	EHP2380	
Scope of supply	Part No.	Page
Hydraulic hose, 2 m	HS22	489
Foot switch for electro-hydraulic pumps EHP 4 and HK 12/2 EL	FTA1	488
Accessories	Part No.	Page
Transport trolley for electro-hydraulic pump EHP 2	TW50	
Two-hand safety controller for pumps EHP 2 to EHP 4	ZST3	488
Hydraulic hose, 3 m	HS23	489
Hydraulic hose, 4 m	HS24	489
Hydraulic hose, 5 m	HS25	489
Hydraulic hose, 6 m	HS26	489
Hydraulic hose, 8 m	HS28	489
Hydraulic hose, 10 m	HS210	489
Adapter Klauke sleeve to Greenlee plug	CMGSK	

EHP 3 Electro hydraulic drive unit 400 V, 700 bar

- ▶ Continuous operation
- ▶ High conveying capacities with compact dimensions



Characteristics

- With AC motor
- Hydraulic hose, 2 m
- Three-stage safety foot switch
- Electronic control

Suitable for

- The operation of hydraulic crimping and cutting heads

Technical data	
Version	Three-phase motor
Rated output	1.1 kW
Motor voltage	360 V - 440 V / 50 - 60 Hz
Capacity	0.9 l / min.
Operating pressure	max. 700 bar
Weight	40.9 kg
Operating mode	100 % power-on time

Item	Part No.	
Electro-hydraulic pump, 400 V, 700 bar	EHP3	
Scope of supply	Part No.	Page
Hydraulic hose, 2m	HS22	489
Foot switch for electro-hydraulic pumps EHP 4 and HK 12/2 EL	FTA1	488
Accessories	Part No.	Page
Two-hand safety controller for pumps EHP 2 to EHP 4	ZST3	488
Hydraulic hose, 3 m	HS23	489
Hydraulic hose, 4 m	HS24	489
Hydraulic hose, 5 m	HS25	489
Hydraulic hose, 6 m	HS26	489
Hydraulic hose, 8 m	HS28	489
Hydraulic hose, 10 m	HS210	489
Adapter Klauke sleeve to Greenlee plug	CMGSK	



EHP 4 Electro-hydraulic pumps, 700 bar

- ▶ High capacity
- ▶ Manually adjustable piston stroke speed / delivery volume of the pump
- ▶ Closed, compact and lockable housing (IP54 or higher) to protect against humidity, dust and unauthorised manipulation



Characteristics

- Compatibility with Klauke hydraulic crimping and cutting heads
- For connecting to busbar machining centre
- For use in conjunction with the LSK 120 with adapter CMGSK for punching bus bars
- Compatible with Greenlee punching tools (round and special shape punches) with adapter CMGSK

Additional information

- The hydraulic pumps can be individually configured as customer-specific system.

Technical data

Version	AC
Rated output	0.75 kW
Motor voltage	EHP4115: 115 V/50 Hz, EHP4230: 230 V/50 Hz
Capacity	0.82 l / min.
Operating pressure	max. 700 bar
Weight	28.3 kg
Operating mode	70% power-on time

Item	Part No.	
Electro-hydraulic pump, 115 V	EHP4115	
Electro-hydraulic pump, 230 V	EHP4230	
Scope of supply	Part No.	Page
Hydraulic hose, 3 m	HS23	489
Foot switch for electro-hydraulic pumps EHP 4 and HK 12/2 EL	FTA1	488
Accessories	Part No.	Page
Two-hand safety controller for pumps EHP 2 to EHP 4	ZST3	488
Hydraulic hose, 3 m	HS23	489
Hydraulic hose, 4 m	HS24	489
Hydraulic hose, 5 m	HS25	489
Hydraulic hose, 6 m	HS26	489
Hydraulic hose, 8 m	HS28	489
Hydraulic hose, 10 m	HS210	489
Transport trolley for electro-hydraulic pump EHP 4	TW150	487
Adapter Klauke sleeve to Greenlee plug	CMGSK	

AHP 700-L Battery powered hydraulic pump, 700 bar



- ▶ Compact and lightweight design for mobile use
- ▶ High capacity

Characteristics

- Select programme from crimping, cutting, and punching
- Housing from impact-resistant, fibreglass reinforced polyamide
- Large display for monitoring, diagnostics and setting the pump
- Two powerful, high-capacity Li-Ion batteries
- Automatic retraction when operation is complete
- Manual retract stop with „teach-in“ (MRS+) for positioning control for multiple crimps
- Remote control with cable for easy operation of the battery-operated pump
- Maintenance display via LED
- All hydraulic hoses have coupling plug and coupling sleeve, oil filled
- High wearing comfort with padded shoulder strap

Suitable for

- Operates all single-acting Klauke crimping, cutting and punching tools with 700 bar operating pressure
- The connection to busbar machining centre
- The punching of busbars in conjunction with the LSK 120 with adapter CMGSK

Additional information

- Also available in country-specific variants, Part Number appendix „C“

Technical data			
Battery voltage	18 V		
Battery capacity	2 x 4.0 Ah, Li-Ion		
Charging time	22 min.		
Weight incl. battery	(with two batteries) approx. 6.4 kg		
Ambient temperature	-12 °C to +40 °C		
Operating pressure	max. 700 bar		
Max. oil volume;	approx. 800 ml		
Dimensions	L x W x H: 330 x 160 x 280 mm		
Item	Part No.		
Battery powered hydraulic pump, 700 bar	AHP700L		
Scope of supply	Part No.	Quantity	Page
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40	2	484
Makita quick-charger for 18 V Li-Ion battery	LGL1	1	486
Hydraulic hose, 2 m, oil filled	HSOEL2	1	489
Carrying strap with shoulder padding	TG3	1	487
Carrying bag	TT2	1	194
Remote control with 1.5 m cable	HTA4	1	491
Accessories	Part No.	Page	
Hydraulic hose, 3 m, oil filled	HSOEL3	489	
Hydraulic hose, 4 m, oil filled	HSOEL4	489	
Hydraulic hose, 5 m, oil filled	HSOEL5	489	
Hydraulic hose, 6 m, oil filled	HSOEL6	489	
Hydraulic hose, 10 m, oil filled	HSOEL10	485	
18 V mains adapter for 230 V Voltage	NG2230	488	
Two-hand safety control for battery powered hydraulic pump AHP 700-L	ZST4	488	
Foot switch for battery powered hydraulic pump	FTA4	488	
Transport rucksack	TRAHP700L		
Variants	Part No.	Page	
AHP 700-L with transport rucksack	TRAHP700LSET		

767 Hydraulic hand pump



- ▶ Lightweight, portable hand pump
- ▶ Robust construction

Characteristics

- All-purpose - works in every position
- Incl. mounting holes for work bench assembly

Additional information

- In combination with punch cylinder 50170910 for all hole sizes

Technical data		
Dimension	330 x 100 x 100 mm	
Operating pressure	max. 460 bar	
Weight	2.7 kg	
Item	Part No.	
Hydraulic hand pump 767	50132849	
Accessories	Part No.	Page
Hydraulic hose 6.4 mm dia. x 0.9 m	50383167	490

1725 Hydraulic foot pump



- ▶ Foot operation facilitates two-handed operation of round and special shaped punches

Characteristics

- Lockable pedal for storage and transport
- All-purpose

Additional information

- In combination with punch cylinder 50170910 for all hole sizes

Technical data		
Dimension	400 x 200 x 150 mm	
Operating pressure	max. 460 bar	
Weight	5.0 kg	
Item	Part No.	
1725 Hydraulic foot pump	50313533	
Accessories	Part No.	Page
Hydraulic hose 6.4 mm dia. x 3 m	50377299	490

RAL 1 Makita battery 18 V / 1.5 Ah Li-Ion (27 Wh)



Characteristics

- No memory effect
- Extremely low self-discharge
- Low weight

Suitable for

- Next Generation battery-powered hydraulic tools with Makita battery mounting

Technical data	
Battery voltage	18 V
Battery capacity	1.5 Ah
Charging time	With LGL1: 15 min.
Cell technology	Li-Ion
Weight	0.4 kg
Item	Part No.
Makita battery 18 V / 1.5 Ah, Li-Ion	RAL1

RAL 2 Makita battery 18 V / 3.0 Ah Li-Ion (54 Wh)



Characteristics

- No memory effect
- Extremely low self-discharge
- Low weight

Suitable for

- Next Generation battery-powered hydraulic tools with Makita battery mounting

Technical data	
Battery voltage	18 V
Battery capacity	3.0 Ah
Charging time	With LGL1: 22 min.
Cell technology	Li-Ion
Weight	0.6 kg
Item	Part No.
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)	RAL2

RAL 3 Battery 18 V / 3.3 Ah Li-Ion (54 Wh)



Characteristics

- No memory effect
- Extremely low self-discharge
- Low weight

Suitable for

- Klauke safety cutter

Technical data	
Battery voltage	18 V
Battery capacity	3.3 Ah
Charging time	With LGL3: 60 min.
Ambient temperature	-20 °C to +40 °C
Cell technology	Li-Ion
Weight	0.6 kg
Item	Part No.
Battery 18 V / 3.3 Ah, Li-Ion (54 Wh)	RAL3



Pumps

Accessories for hydraulic tools

RAL 40 Makita battery 18 V / 4.0 Ah Li-Ion (72 Wh)



Characteristics

- No memory effect
- Extremely low self-discharge
- Light - same weight as the Makita 3.0 Ah battery

Suitable for

- Next Generation battery-powered hydraulic tools with Makita battery mounting

Technical data	
Battery voltage	18 V
Battery capacity	4.0 Ah
Charging time	With LGL1: 36 min.
Ambient temperature	-20 °C to +40 °C
Cell technology	Li-Ion
Weight	0.6 kg
Item	Part No.
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40

RAL 4 Makita battery 18 V / 5.0 Ah, Li-Ion



Characteristics

- No memory effect
- Extremely low self-discharge
- Light - same weight as the Makita 3.0 Ah battery

Suitable for

- Next Generation battery-powered hydraulic tools with Makita battery mounting

Technical data	
Battery voltage	18 V
Battery capacity	5.0 Ah, Li-Ion
Charging time	With LGL1: 45 min.
Ambient temperature	-20 °C to +40 °C
Cell technology	Li-Ion
Weight	0.6 kg
Item	Part No.
Makita battery 18 V / 5.0 Ah, Li-Ion (90 Wh)	RAL4

RAL B1 EU Bosch battery 18 V / 2.0 Ah, Li-Ion



Technical data	
Battery capacity	2.0 Ah
Charging time	With LGLB1EU: 15 min.
Cell technology	Li-Ion
Voltage range	18 V
Weight	0.4 kg
Item	Part No.
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU

RAL B2 EU Bosch battery 18 V / 5.0 Ah, Li-Ion



Technical data	
Battery voltage	18 V
Battery capacity	5.0 Ah, Li-Ion
Charging time	With LGLB1EU: 45 min.
Cell technology	Li-Ion
Weight	0.69 kg
Item	Part No.
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU

RAML1 battery 10.8 V / 1.5 Ah, Li-Ion (16.2 Wh)



Technical data	
Battery voltage	10.8 V
Battery capacity	1.5 Ah
Cell technology	Li-Ion
Weight	0.3 kg
Item	Part No.
Battery 10.8 V / 1.5 Ah, Li-Ion (16.2 Wh)	RAML1

NG2 mains adapter 18 V for 120 V or 230 V mains voltage



Characteristics

- Temperature protection
- Current limiter
- Overload protection 250 V
- Cable lengths: 5 m

Suitable for

- For all Klauke tools with 18 V all-mains sets - Makita version

Technical data	
Mains supply	120 V / 230 V
Voltage range	18 V
Weight	0.8 kg
Item	Part No.
18 V mains adapter for 120 V Voltage	NG2115
18 V mains adapter for 230 V Voltage	NG2230



LGL 1 Makita quick-charger for 18 V Li-Ion batteries



Suitable for

- Klauke Li-Ion Makita battery 18 V

Technical data	
Charging time	With RAL1: 15 min., with RAL2: 22 min.
Mains supply	230 V
Voltage range	18 V
Weight	1 kg
Item	Part No.
Makita quick-charger for 18 V Li-Ion battery	LGL1

LGL 3 Makita quick-charger for 18V Li-Ion batteries



Suitable for

- Klauke Li-Ion Makita battery 18 V

Technical data	
Charging time	60 min.
Mains supply	220 - 240 V
Voltage range	18 V
Weight	0.6 kg
Item	Part No.
Charger for 18 V Li-Ion batteries	LGL3

LGL B1 EU Bosch charger for 18 V Li-Ion batteries



Characteristics

- Charger for safety cutting unit batteries

Suitable for

- 18 V / 3.30 Ah Li-Ion batteries

Technical data	
Charging time	With RALB1EU.:15 min, RALB2EU: 45 min.
Mains supply	230 V
Voltage range	18 V
Weight	0.65 kg
Item	Part No.
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU

LGML 1 Charger for 10.8 V Li-Ion batteries, 230 V



Suitable for

- Klauke Li-Ion battery 10.80 V

Technical data	
Cell technology	Li-Ion
Mains supply	220 - 240 V
Voltage range	10.8 V
Weight	0.5 kg
Item	Part No.
Charger for 10.80 V Li-Ion batteries, 230 V	LGML1

TW 150 Transport trolley for electro-hydraulic pump EHP 4



Item	Weight kg	Part No.
Transport trolley for electro-hydraulic pump EHP 4	8.7	TW150

TG 3 Carrying strap with shoulder padding



Suitable for

- Battery powered hydraulic pump AHP 700-L

Item	Part No.
Carrying strap with shoulder padding	TG3



Pumps

Accessories for hydraulic tools

ZST 3 / ZST 4 Two-hand safety controls for pumps



Suitable for

- Pumps: EHP 4 and AHP 700-L

Item	Part No.
Two-hand safety controller for pumps EHP 2 to EHP 4	ZST3
Two-hand safety control for battery powered hydraulic pump AHP 700-L	ZST4

FTA 1 / FTA 4 Foot switches for pumps



Suitable for

- Pumps: EHP 4, HK 12/2 EL, AHP 700-L

Item	Part No.
Foot switch for electro-hydraulic pumps EHP 4 and HK 12/2 EL	FTA1
Foot switch for battery powered hydraulic pump AHP 700-L	FTA4

T 15 Special hydraulic oil



Characteristics

- Environmentally-friendly hydraulic oil, quickly biodegradable
- 5 l canister

Suitable for

- Hydraulic pumps, exception: Safety cutter

Item	Part No.
Special hydraulic oil	T15

Hydraulic oil



Characteristics

- Specially-developed for GREENLEE hydraulic tools

Item	Part No.
Hydraulic oil 3.8 l	90510593
Hydraulic oil 0.95 l	90508068

HS 2 Hydraulic hoses



Suitable for

- Hydraulic crimping and cutting systems and pumps
- For connecting to hydraulic pumps FHP 2, PHD 2, EHP 2, EHP 3, EHP 4, HK12/2 EL, HK 25/2 EL, AS 65 FHP, AS 105 FHP, HK 25/2, HK 45

Item	Part No.
Hydraulic hose, 2 m	HS22
Hydraulic hose, 3 m	HS23
Hydraulic hose, 4 m	HS24
Hydraulic hose, 5 m	HS25
Hydraulic hose, 6 m	HS26
Hydraulic hose, 8 m	HS28
Hydraulic hose, 10 m	HS210

HS OEL hydraulic hose, oil filled



Characteristics

- For connecting to battery-powered hydraulic pump AHP 700-L

Additional information

- Also available in country-specific variants, Part Number appendix „C“

Item	Part No.
Hydraulic hose, 2 m, oil filled	HSOEL2
Hydraulic hose, 3 m, oil filled	HSOEL3
Hydraulic hose, 4 m, oil filled	HSOEL4
Hydraulic hose, 5 m, oil filled	HSOEL5
Hydraulic hose, 6 m, oil filled	HSOEL6
Hydraulic hose, 10 m, oil filled	HSOEL10



Pumps

Accessories for hydraulic tools

Hydraulic hose 6.4 mm dia. x 3 m



Characteristics

- Filled with hydraulic oil

Suitable for

- Hydraulic foot pump 1725

Item	Part No.	
Hydraulic hose 6.4 mm dia. x 3 m	50377299	
Scope of supply	Part No.	Page
Hydraulic hose, 3 m	90525159	
Coupler plug	90541693	
Dust cap	90541707	

Hydraulic hose 6.4 mm dia. x 0.9 m



Characteristics

- Without hydraulic oil

Suitable for

- Hydraulic hand pump 767

Item	Part No.	
Hydraulic hose 6.4 mm dia. x 0.9 m	50383167	
Scope of supply	Part No.	Page
Hydraulic hose, 0.9 m	50063022	
Coupler plug	90541693	
Dust cap	90541707	

KST 2 Coupler



Characteristics

- Including adapter

Suitable for

- Hydraulic crimping and cutting systems and pumps

Item	Part No.
Coupler plug	KST2

KMF 1 Coupler for crimping and cutting heads



Characteristics

- KMF 1: For connecting to hydraulic crimping/cutting heads: PK 18, PK 22, PK 120/42, PK 120 U, PK 25/2, PK 45, PK 60 VP, PK 60 VP/FT, PK 60 UNV, THK 18, THK 22, THK 120, SDG 45, SDG 50, SDG 55, SDG 85/2, SDG 105, SDK 65, SDK 85, SDK 105, SDK 120
- Includes barrel nipple
- With 1/4" connection (external thread)

Item	Part No.
Coupler for crimping and cutting heads with barrel nipple	KMF1

DNP 2 Barrel nipple



Suitable for

- To connect and to extend hydraulic hoses HS 2

Item	Part No.
Barrel nipple	DNP2

HTA 4 remote control for hydraulic pump



Suitable for

- Battery powered hydraulic pump AHP 700-L

Item	Part No.
Remote control with 1.5 m cable	HTA4

EFFORTLESS OPERATIONS.

Safety, ergonomics and reliability – these quality features are a given in day-to-day work. Klauke hand tools are designed for this very purpose.





Hand tools

VDE tools	494
Pliers	496
Screwdrivers	500
Assortments and sets	503

Standard tools and accessory	507
Water pump pliers, fitting pliers	508
Electronic / precision mechanic's tools	509
Bits, holders and adapters	510
Assortments and sets	512
Measuring and marking	515
Basic tools	517
Tool cases	520

Wire stripping tools	524
Wire stripping tools	525
Stripping tools	528

Stripping tools for communication technology	530
---	------------





SAFETY-TESTED RANGE – VDE TOOLS

For the safety of our customers, we also have our tools tested by independent bodies. The "VDE Tool" marking indicates that this special Klauke range conforms to the current directives of the safety testing procedure to EN/IEC 60900. All tools with the VDE name are approved to 1000 V alternating current and 1500 V direct current. Special tool steel creates additional robustness.



In brief

- ▶ Conforms to current directive EN/IEC 60900
- ▶ Manufactured using special tools steel
- ▶ Effortless operations due to optimal ergonomic design

► When you need to go deeper: SLIM range

SLIM range screwdrivers have a tapered blade at the front. Deeper screws, such as those in circuit breakers, can be reached with ease. No slipping and rolling due to special handle shape. With its narrow tip, the SLIM range is best suited for loosening cables in spring terminals.

- For use in confined areas due to tapered blade
- Safe operations due to rolling protection



► More than just a force: Power combi-pliers

The power combi-pliers are really multi-talented: Cutting, gripping, counter holding, inserting conductors. Hence the name combi-pliers. Four tools in one: You need fewer tools and the power assist function also helps you when working.

- Cuts cables, conductors and wires
- Grips flat and round material such as safety splints
- Simplifies the insertion of cables into the clamp or circuit breaker
- Can also be used to tighten nuts

► Everything under control: VDE cable cutters

The VDE cable cutters are hard-wearing. They withstand cold impact tests to $-25\text{ }^{\circ}\text{C}$, tests of the adhesion of the insulating material to 500 N and individual voltage tests in a water bath with 10,000 V AC. The reward: Certification to EN/IEC 60900. Completely safe.

- Extra hand protection against flying sparks
- Safe operations due to slip-proof overlay
- Safe even under extreme conditions
- For fine and superfine stranded copper and aluminium cables





VDE Cable cutter



Characteristics

- Adjustable joint
- Cuts fine and superfine stranded copper and aluminium cable

Part No.	KL010160IS	KL010210IS
Item	VDE Cable cutter 160 mm	VDE Cable cutter 210 mm
Dimension mm	160	210
Weight g	225	340
Cutting power up to dia.	16	25



VDE Power combination pliers



Characteristics

- With combination spanner from 11 - 17 mm (M8 - M10)
- Holds flat and round material
- Cuts soft wires, e.g. copper, aluminium, medium-hard wires e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire

Part No.	KL020165IS	KL020180IS	KL020205IS
Item	VDE Power combination pliers, 165 mm	VDE Power combination pliers, 180 mm	VDE Power combination pliers, 205 mm
Dimension mm	165	180	205
Weight g	200	255	280
Cutting power soft wire dia. mm	4.0	5.2	5.9
Cutting power medium wire dia. mm	3.1	3.4	3.8
Cutting power hard wire dia. mm	2.0	2.2	2.5



VDE Power combination pliers, angled



Characteristics

- Comfortable working due to ergonomically optimised, 45° angled head
- With combination spanner from 11 - 17 mm (M8 - M10)
- Holds flat and round material
- Cuts soft wires, e.g. copper, aluminium, medium-hard wires e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire

Part No.	KL026205IS
Item	VDE Power combination pliers, offset, 205 mm
Dimension mm	205
Weight g	285
Cutting power soft wire dia. mm	5.9
Cutting power medium wire dia. mm	3.8
Cutting power hard wire dia. mm	2.5



VDE Side cutter



Characteristics

- Improved cutting of insulated cables from slip-reducing wave profiled blades
- Cuts soft wires, e.g. copper, aluminium, medium-hard wires e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire

Part No.	KL040145IS	KL040160IS	KL040180IS
Item	VDE Side cutter 145 mm	VDE Side cutter 160 mm	VDE Side cutter 180 mm
Dimension mm	145	160	180
Weight g	180	210	265
Cutting power soft wire dia. mm	5.0	6.0	7.0
Cutting power medium wire dia. mm	2.5	3.5	4.0
Cutting power hard wire dia. mm	1.7	2.0	2.5
Cutting power up to dia.	8.0	11.0	13.0

VDE Electricians side cutter



Characteristics

- High cutting performance for superfine wires due to hardened precision cutters
- Cuts soft wires, e.g. copper, aluminium, medium-hard wires e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire

Part No.	KL042190IS
Item	VDE Electricians side cutter, 190 mm
Dimension mm	190
Weight g	285
Cutting power soft wire dia. mm	2.0
Cutting power medium wire dia. mm	1.0
Cutting power up to dia.	4.0

VDE Power side cutter



Characteristics

- Improved cutting of insulated cables from slip-reducing wave profiled blades
- Optimum handling due to ergonomically-shaped handle
- High cutting performance on hard wires and piano wires

Part No.	KL045180IS	KL044200IS	KL045240IS
Item	VDE Power side cutter, 180 mm	VDE Electric power side cutter, 200 mm	VDE Power side cutter, 240 mm
Dimension mm	180	200	240
Weight g	285	280	420
Cutting power soft wire dia. mm	3.7	4.0	4.5
Cutting power medium wire dia. mm	2.6	2.8	3.5
Cutting power hard wire dia. mm	2.2		3.0
Cutting power piano wire dia. mm		2.5	

VDE Lever power side cutter



Characteristics

- 40% force saving
- High cutting performance for superfine wires due to hardened precision cutters
- Special tool steel drop-forged, oil-hardened
- Cuts medium-hard wires, e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire as well as piano wire

Part No.	KL046200IS
Item	VDE Lever power side cutter, 200 mm
Dimension mm	200
Cutting power medium wire dia. mm	4.5
Cutting power hard wire dia. mm	3.5
Cutting power piano wire dia. mm	3.0

VDE Telephone pliers, straight



Characteristics

- Long, flat/round jaws
- Optimum hold due to toothed grip area
- Cutting edge inductive hardened
- With combination spanner from 11 - 17 mm (M8 - M10)
- With wire cutter for soft wires, e.g. copper, aluminium, medium-hard wires e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire

Part No.	KL050205IS
Item	VDE long-nose pliers, straight, 205 mm
Dimension mm	205
Weight g	215
Cutting power soft wire dia. mm	3.9
Cutting power medium wire dia. mm	3.2
Cutting power hard wire dia. mm	2.2

VDE Telephone pliers, curved

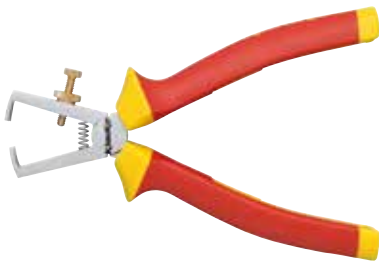


Characteristics

- Long, 45° offset, flat/round jaws
- Optimum hold due to toothed grip area
- Cutting edge inductive hardened
- With combination spanner from 11 - 17 mm (M8 - M10)
- Cuts soft wires, e.g. copper, aluminium, medium-hard wires e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire

Part No.	KL055205IS
Item	VDE long-nose pliers, bent, 205 mm
Dimension mm	205
Weight g	215
Cutting power soft wire dia. mm	3.9
Cutting power medium wire dia. mm	3.2
Cutting power hard wire dia. mm	2.2

VDE Wire stripper



Characteristics

- With opening spring and V-shaped cutting edges
- With setting screw for setting the cable diameter

Part No.	KL060160IS
Item	VDE Wire stripper, 160 mm
Dimension mm	160
Weight g	185

VDE Water pump pliers, jaw width 50 mm



Characteristics

- Jaw width 50 mm
- Safe working due to clamp protection and safety joint
- Ratchet adjustment
- Optimum hold due to toothed grip area

Part No.	KL070250IS
Item	VDE Water pump pliers, jaw width 50 mm
Dimension mm	250
Weight g	410

Automatic VDE wire stripper 0.2 - 6 mm²



Characteristics

- For safe working on live conductors up to 1000 V
- Adjustable length stop from 5 - 12 mm
- Locking function to protect the blades

Suitable for

- Flexible and solid conductors from 0.2 - 6 mm²

Part No.	KL760180IS
Item	Automatic VDE wire stripper 0.2 - 6 mm ²
Dimension mm	215
Weight g	130

VDE Slotted screwdriver



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL1007525IS	75	67	18	22	1
KL10010030IS	100	67	18	28	1
KL10010035IS	100	67	18	30	1
KL10010040IS	100	79	23	44	1
KL10012555IS	125	89	27	70	1
KL10015065IS	150	89	27	86	1
KL10017580IS	175	98	32	135	1

VDE Slotted screwdriver, Slim Line



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces
- Reduced space requirement for use in confined spaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL10010035ISLIM	100	67	18	35,9	1
KL10010040ISLIM	100	79	23	44	1
KL10012555ISLIM	125	89	27	70	1
KL10012565ISLIM	125	89	27	86	1

VDE Phillips screwdriver



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL110PH1IS	80	89	27	52	1
KL110PH2IS	100	98	32	80	1
KL110PH3IS	150	98	32	145	1

VDE Phillips screwdriver, Slim Line



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces
- Reduced space requirement for use in confined spaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL110PH1ISLIM	80	89	27	52	1
KL110PH2ISLIM	100	98	32	80	1

VDE Pozidriv screwdriver



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL120PZ1IS	80	89	27	49	1
KL120PZ2IS	100	98	32	76	1
KL120PZ3IS	150	98	32	140	1

VDE Pozidriv screwdriver, Slim Line



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces
- Reduced space requirement for use in confined spaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL120PZ1ISLIM	80	89	27	49	1
KL120PZ2ISLIM	100	98	32	76	1

VDE Plus/Minus-Pozidriv screwdriver



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL130PM1IS	80	89	27	52	1
KL130PM2IS	100	98	32	80	1

VDE Plus/Minus-Pozidriv screwdriver, Slim Line



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces
- Reduced space requirement for use in confined spaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL130PM1ISLIM	80	89	27	52	1
KL130PM2ISLIM	100	98	32	80	1

VDE TORX® screwdriver



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL150TX10IS	100	79	23	45	1
KL150TX15IS	100	89	27	45	1
KL150TX20IS	125	98	32	69	1
KL150TX25IS	125	98	32	69	1
KL150TX30IS	150	98	32	96	1

VDE TORX® screwdriver, Slim Line



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces
- Reduced space requirement for use in confined spaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL150TX15ISLIM	100	89	27	45	1
KL150TX20ISLIM	125	98	32	69	1
KL150TX25ISLIM	125	98	32	69	1

VDE-M-TEC Screwdriver for hexagonal nuts



Characteristics

- With box spanner tube - immersion depth approx. 41 mm - optimal for deep-seated screws and nuts
- With spring-loaded magnetic body

Item	Dimension mm	For thread	Weight g	Part No.
VDE Screwdriver M-TEC size 5.5	110 x 5.5	M3	100	KL14555IS
VDE Screwdriver M-TEC size 6	110 x 6.0	M3.5	100	KL14560IS
VDE Screwdriver M-TEC size 7	110 x 7.0	M4	100	KL14570IS
VDE Screwdriver M-TEC size 8	110 x 8.0	M5	110	KL14580IS
VDE Screwdriver M-TEC size 10	125 x 10.0	M6	110	KL145100IS
VDE Screwdriver M-TEC size 13	110 x 13.0	M8	110	KL145130IS

Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V



Characteristics

- Single-pole
- With heavy duty handle

Item	Dimension mm	Weight g	Part No.
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V	73 x 3.0 x 0.8	30	KL19073IS

VDE Pliers set, 3-pce.



Item	Part No.	
VDE Plier set, 3-pieces	KL303IS	
Scope of supply	Part No.	Page
VDE Power combination pliers, 180 mm	KL020180IS	496
VDE Side cutter 160 mm	KL040160IS	497
VDE long-nose pliers, straight, 205 mm	KL050205IS	498

VDE Pliers set, 4-pce.



Item	Part No.	
VDE Plier set, 4-pieces	KL304IS	
Scope of supply	Part No.	Page
VDE Power combination pliers, 180 mm	KL020180IS	496
VDE Electric power side cutter, 200 mm	KL044200IS	497
VDE long-nose pliers, straight, 205 mm	KL050205IS	498
VDE Wire stripper, 160 mm	KL060160IS	499

VDE Pliers/screwdriver set, 6-pce.



Item	Part No.	
Pliers/screwdriver set, 6-pce.	KL306IS	
Scope of supply	Part No.	Page
VDE long-nose pliers, straight, 205 mm	KL050205IS	498
VDE Side cutter 160 mm	KL040160IS	497
VDE Phillips screwdriver, PH1	KL110PH1IS	500
VDE Phillips screwdriver, PH2	KL110PH2IS	500
VDE Slotted screwdriver, 2.5 x 0.4 mm	KL1007525IS	500
VDE Slotted screwdriver, 4.0 x 0.8 mm	KL10010040IS	500

VDE Screwdriver set, 3-pce.



Item	Part No.	
VDE Screwdriver set, 3-pieces	KL391IS	
Scope of supply	Part No.	Page
VDE Phillips screwdriver, PH1	KL110PH1IS	500
VDE Phillips screwdriver, PH2	KL110PH2IS	500
VDE Slotted screwdriver, 3.5 x 0.6 mm	KL10010035IS	500

VDE Screwdriver set, 3-pce.



Item	Part No.	
VDE Screwdriver set, 3-pieces	KL392IS	
Scope of supply	Part No.	Page
VDE Pozidriv screwdriver, PZ1	KL120PZ1IS	501
VDE Pozidriv screwdriver, PZ2	KL120PZ2IS	501
VDE Slotted screwdriver, 4.0 x 0.8 mm	KL10010040IS	500

VDE Screwdriver set, 3-pce.



Item	Part No.	
VDE Screwdriver set, 3-pieces	KL393IS	
Scope of supply	Part No.	Page
VDE Plus/Minus-Pozidriv screwdriver, Z1	KL130PM1IS	501
VDE Plus/Minus-Pozidriv screwdriver, Z2	KL130PM2IS	501
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V	KL19073IS	502

VDE Screwdriver set, 6-pce.



Item	Part No.	
VDE Screwdriver set, 6-pce.	KL390IS	
Scope of supply	Part No.	Page
VDE Phillips screwdriver, PH1	KL110PH1IS	500
VDE Phillips screwdriver, PH2	KL110PH2IS	500
VDE Slotted screwdriver, 2.5 x 0.4 mm	KL1007525IS	500
VDE Slotted screwdriver, 4.0 x 0.8 mm	KL10010040IS	500
VDE Slotted screwdriver, 5.5 x 1.0 mm	KL10012555IS	500
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V	KL19073IS	502

VDE Screwdriver set Slim Line, 5-pce.



Characteristics

- Reduced blade for optimum fit
- Ergonomically-shaped handle with optimum force transmission
- Anti-roll-guard

Item	Part No.	
VDE Screwdriver set Slim Line, 5-pce.	KL390ISLIM	
Scope of supply	Part No.	Page
VDE Slotted screwdriver 3.5 x 0.6 x 100 Slim Line	KL10010035ISLIM	500
VDE Slotted screwdriver 5.5 x 1.0 x 125 Slim Line	KL10012555ISLIM	500
VDE Pozidriv screwdriver PZ1 Slim Line	KL120PZ1ISLIM	501
VDE Pozidriv screwdriver PZ2 Slim Line	KL120PZ2ISLIM	501
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V	KL19073IS	502

VDE Screwdriver set Slim Line, 6-pce., case



Characteristics

- Reduced blade for optimum fit
- Ergonomically-shaped handle with optimum force transmission
- Anti-roll-guard

Item	Part No.	
VDE Screwdriver set Slim Line, 6-pce., case	KL391ISLIM	
Scope of supply	Part No.	Page
VDE Slotted screwdriver 3.5 x 0.6 x 100 Slim Line	KL10010035ISLIM	500
VDE Slotted screwdriver 4.0 x 0.8 x 100 Slim Line	KL10010040ISLIM	500
VDE Slotted screwdriver 5.5 x 1.0 x 125 Slim Line	KL10012555ISLIM	500
VDE Phillips screwdriver PH2 Slim Line	KL110PH2ISLIM	500
VDE Pozidriv screwdriver PZ1 Slim Line	KL120PZ1ISLIM	501
VDE Pozidriv screwdriver PZ2 Slim Line	KL120PZ2ISLIM	501

Tool bag, equipped with 9 VDE replaceable blades



Characteristics

- Blades from special chrome/molybdenum/vanadium alloy
- Standard 1/4" mounting for use with torque handles
- Blade length: 170 mm

Item	Part No.
Tool bag, equipped with 9 VDE replaceable blades	KL390TB9
Scope of supply	
VDE Slotted blade, 3.5 x 0.6 mm in blister pack	
VDE Slotted blade, 4.0 x 0.8 mm in blister pack	
VDE Slotted blade, 5.5 x 1.0 mm in blister pack	
VDE Philips blade, PH1 in blister pack	
VDE Philips blade, PH2 in blister pack	
VDE Pozidriv blade, PZ1 in blister pack	
VDE Pozidriv blade, PZ2 in blister pack	
VDE Plus/Minus Pozidriv blade, PM1 in blister pack	
VDE Plus/Minus Pozidriv blade, PM2 in blister pack	
Accessory	Part No.
Tool bag, empty	KL390TL





STANDARD – KLAUKE BASIC TOOLS, SETS AND ACCESSORIES

With Klauke sets, you always have your basic equipment to hand. Whether you are an electronics technician or precision engineer - the Klauke range includes all standard versions through to pliers for water pumps and fittings. Rely on Klauke quality from the outset - even just for quick, occasional use.



▶ Socket wrench set KL 361

We have compiled the standard set of socket wrenches for you and made everything shockproof by storing in a high-quality plastic case. In total, the set comprises 29 pieces in 1/4" sizes.

- 29 piece: 16-piece bit set, bit holder, adapter, 7-piece socket set, professional ratchet, various extensions, T-Smart grip

▶ The apprentice's case: KL 855 B22

The impact-resistant case made from ABS material contains everything an apprentice electrician needs, from standard tools such as cable knives and phase testers through to VDE safety tools.

Head into your apprenticeship well-prepared!

▶ The technician's basic equipment: KL 905 B15

The practical notebook bag holds everything you need on-site. The 15-piece set is securely stowed in the fold-out compartments.

- Technician's notebook bag made from highly durable nylon
- Tools are quickly located thanks to fold-out front pocket

- Reliably transported due to splash-proof base
- Twin fixed carrying handle
- Basic set of VDE screwdrivers
- Standard tools such as phase tester and cable knife



Water pump pliers, jaw width 50 mm



Characteristics

- Jaw width 50 mm
- Safe working due to clamp protection and safety joint
- Ratchet adjustment
- Optimum hold due to toothed grip area
- Plastic coated handles
- 2-component handle

Part No.	KL070250G
Item	Water pump pliers, jaw width 50 mm
Dimension mm	250
Weight g	355

Water pump pliers



Characteristics

- Jaw width up to 65 mm
- Safe working due to clamp protection and safety joint
- Push button adjustment for setting quickly and accurately
- Inverted box joint with wide guide surfaces
- Optimum hold due to toothed grip area
- High retaining force and load-bearing capacity due to inductively-hardened teeth
- Plastic coated handles
- 2-component handle

Part No.	KL072180G	KL072250G	KL072300G
Item	Water pump pliers, jaw width 35 mm	Water pump pliers, jaw width 50 mm	Water pump pliers, jaw width 65 mm
Dimension mm	180	250	300
Weight g	190	300	530

Fitting pliers, jaw width 53 mm



Characteristics

- Parallel and moveable jaws for maximum force
- Large jaw opening adjustable from 0 - 53 mm
- Safe working due to clamp protection and safety joint
- Push button adjustment for setting quickly and accurately
- Box joint
- Plastic coated handles

Part No.	KL078250G
Item	Fitting pliers, jaw width 53 mm
Dimension mm	250
Weight g	375

ESD Electronic side cutter



Characteristics

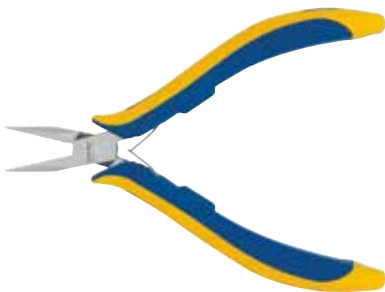
- Precision pliers for high precision work
- Double leaf spring with low friction
- High cutting force thanks to additional induction hardening
- Anti-static ergonomic non slip grips
- Surface resistance amounts to 1 to 100 MΩ

Suitable for

- For soft wires to 1.2 mm

Item	Dimension mm	Weight g	Part No.
Electronic side cutter, with facet	115	62	KL040115EL
Electronic side cutter, without facet/surface flush cut	115	60	KL040115ELW

ESD Electronic long-nose pliers



Characteristics

- Smooth inside jaws, edges rounded
- Anti-static ergonomic non slip grips
- Surface resistance amounts to 1 to 100 MΩ
- Optimised for gripping fine strands of wires

Item	Dimension mm	Weight g	Part No.
Electronic long-nose pliers	115	64	KL050115EL

Electronic side cutter



Characteristics

- Cutter angled at 21°
- Backlash-free operation
- With opening spring
- 2-component handle

Suitable for

- For soft wires to 1.3 mm dia.

Item	Dimension mm	Weight g	Part No.
Electronic side cutter, without wire trapping spring	128	64	KL040128EL
Electronic side cutter, with wire trapping spring	128	66	KL040128ELH

Screwdriver with interchangeable bits



Characteristics

- Compact, versatile, ergonomic

Item	Dimension mm	Weight g	Part No.
Screwdriver with interchangeable bits, 8-pce.	128	64	KL180B8

Scope of supply

Slotted screwdriver bit, 1.0 x 5.5 mm

Philips screwdriver bit, PH 1 & PH 2

Pozidriv screwdriver bit, PZ 1 & PZ 2

TORX® screwdriver bit, Torx 15, 20, 25

Magnetic bit holder

Variants	Part No.
Interchangeable bit screwdriver, 8-piece for 12 units in the sales display	KL180B8DISPLAY



Slotted screwdriver bit 1/4", 73 mm



Characteristics

- Shank 1/4" (6.3), DIN 3126

Item	Dimension mm	Weight g	Number parts	Part No.
Slotted screwdriver bit 1/4", 73 mm	73 x 0.6 x 3.5	16	2	KL2007335
Slotted screwdriver bit 1/4", 73 mm	73 x 0.8 x 4.0	18	2	KL2007340
Slotted screwdriver bit 1/4", 73 mm	73 x 1.0 x 5.5	26	2	KL2007355
Slotted screwdriver bit 1/4", 73 mm	73 x 1.2 x 6.5	34	2	KL2007365

Phillips screwdriver bit 1/4", 73 mm



Characteristics

- Shank 1/4" (6.3), DIN 3126

Item	Dimension mm	Weight g	Number parts	Part No.
Phillips screwdriver bit 1/4", 73 mm PH1	73 x PH 1	22	2	KL21073PH1
Phillips screwdriver bit 1/4", 73 mm PH2	73 x PH 2	30	2	KL21073PH2

Pozidriv screwdriver bit 1/4", 73 mm



Characteristics

- Shank 1/4" (6.3), DIN 3126

Item	Dimension mm	Weight g	Number parts	Part No.
Pozidriv screwdriver bit 1/4", 73 mm PZ1	73 x PZ 1	22	2	KL22073PZ1
Pozidriv screwdriver bit 1/4", 73 mm PZ2	73 x PZ 2	30	2	KL22073PZ2

Plus/Minus-Pozidriv screwdriver bit, 1/4", 73 mm

Characteristics

- Shank 1/4" (6.3), DIN 3126



Item	Dimension mm	Weight g	Number parts	Part No.
Plus/Minus-Pozidriv screwdriver bit, 1/4", 73 mm	73 x Z 1	20	2	KL23073PM1
Plus/Minus-Pozidriv screwdriver bit, 1/4", 73 mm	73 x Z 2	30	2	KL23073PM2

TORX® screwdriver bit, 1/4", 73 mm

Characteristics

- Shank 1/4" (6.3), DIN 3126



Item	Dimension mm	Weight g	Number parts	Part No.
TORX® screwdriver bit, 1/4", 73 mm TX10	73 x TX 10	22	2	KL25073TX10
TORX® screwdriver bit, 1/4", 73 mm TX15	73 x TX 15	22	2	KL25073TX15
TORX® screwdriver bit, 1/4", 73 mm TX20	73 x TX 20	25	2	KL25073TX20
TORX® screwdriver bit, 1/4", 73 mm TX25	73 x TX 25	25	2	KL25073TX25
TORX® screwdriver bit, 1/4", 73 mm TX27	73 x TX 27	25	2	KL25073TX27
TORX® Screwdriver bit, 1/4", 73 mm TX30	73 x TX 30	30	2	KL25073TX30
TORX® Screwdriver bit, 1/4", 73 mm TX40	73 x TX 40	40	2	KL25073TX40

Magnetic holder for screwdriver bits, 1/4", 58 mm

Characteristics

- Shank 1/4" (6.3), DIN 3126
- Strong magnet



Item	Dimension mm	Weight g	Part No.
Magnetic holder for screwdriver bits, 1/4", 58 mm	58	32	KL290

Bit holder with quick-change chuck E6.3 1/4"

Characteristics

- Shank 1/4" (6.3), DIN 3126
- With quick-change chuck



Item	Dimension mm	Weight g	Part No.
Bit holder with quick-change chuck E6.3 1/4"	52	30	KL291

Adapter, 1/4", 50 mm



► Shank E 6.3 and 1/4" socket wrench

Characteristics

- Shank 1/4" (6.3)

Suitable for

- Drive for 1/4" socket wrenches

Item	Dimension mm	Weight g	Part No.
Adapter, 1/4", 50 mm	50	15	KL295

Adapter, 3/8", 50 mm



Characteristics

- Shank 3/8" (10), DIN 3126

Item	Dimension mm	Weight g	Part No.
Adapter, 3/8", 50 mm	50	22	KL296

Socket head bit set 1/4", 29-pce.



Item	Weight g	Number parts	Part No.
Socket head bit set 1/4", 29-pce.	1130	29	KL361

Scope of supply

16-pce. Bit set C6.3 1/4"

Bit holder with quick-change chuck E6.3 1/4"

7-pce. Socket set AF5 - AF13 1/4"

Adapter C6.3 (25 mm) 1/4"

Extension E6.3 (150 mm) 1/4"

Extension (75 mm) 1/4"

Professional ratchet 1/4"

T-Smart handle 105 x 39 mm 1/4"

Allen key set, 7-pce.



Characteristics

- In practical holder

Item	Dimension mm	Weight g	Number parts	Part No.
Allen key set, 7-pce.	SW 2 - 8	171	7	KL370

Ball-point allen key set, 9-pce.



Characteristics

- In practical plastic holder

Item	Dimension mm	Weight g	Number parts	Part No.
Ball-point allen key set, 9-pce.	SW 1.5 - 10	273	9	KL375

Torque-wrench set, 0.6 - 1.5 Nm



Characteristics

- Easy torque adjustment using an Allen key
- Precise release when reaching the set torque

Item	Weight g	Number parts	Part No.
Torque-wrench set, 0.6 - 1.5 Nm	1048	14	KL38715

Scope of supply

Nm-slotted blade 3.0 x 0.5 x 170 mm

Nm-slotted blade 3.5 x 0.6 x 170 mm

Nm-Phillips blade PH 0 x 170 mm

Nm blade PZ 0 x 170 mm

Nm-TORX® blade TX 6 x 170 mm

Nm-TORX® blade TX 7 x 170 mm

Nm-TORX® blade TX 8 x 170 mm

Nm-TORX® blade TX IP 7 x 170 mm

Nm-TORX® blade TX IP 8 x 170 mm

Nm-TORX® blade TX IP 9 x 170 mm

Nm blade Z1 x 170 mm

Nm blade magnetic 170 mm

Nm handle 0.6 - 1.5 Nm

Adjusting spanner

Torque-wrench set, 1.5 - 3.0 Nm



Characteristics

- Easy torque adjustment using an Allen key
- Precise release when reaching the set torque

Item	Weight g	Number parts	Part No.
Torque-wrench set, 1.5 - 3.0 Nm, 14 pieces	1066	14	KL38830
Scope of supply			
Nm-slotted blade 4.0 x 0.8 x 170 mm			
Nm-Phillips blade PH 1 x 170 mm			
Nm-Phillips blade PH 2 x 170 mm			
Nm blade PZ 1 x 170 mm			
Nm blade PZ 2 x 170 mm			
Nm-TORX® blade TX 10 x 170 mm			
Nm-TORX® blade TX 15 x 170 mm			
Nm-TORX® blade TX IP 10 x 170 mm			
Nm-TORX® blade TX IP 15 x 170 mm			
Nm blade Z1 x 170 mm			
Nm blade Z2 x 170 mm			
Nm blade magnetic 170 mm			
Nm handle 1.5 - 3.0 Nm			
Adjusting spanner			

Torque-wrench set, 3.0 - 5.4 Nm



Characteristics

- Easy torque adjustment using an Allen key
- Precise release when reaching the set torque

Item	Weight g	Number parts	Part No.
Torque-wrench set, 3.0 - 5.4 Nm	1066	14	KL38954
Scope of supply			
Nm-slotted blade 4.0 x 0.8 x 170 mm			
Nm-Phillips blade PH 2 x 170 mm			
Nm-Phillips blade PH 1 x 170 mm			
Nm blade PZ 1 x 170 mm			
Nm blade PZ 2 x 170 mm			
Nm-TORX® blade TX 15 x 170 mm			
Nm-TORX® blade TX IP 10 x 170 mm			
Nm-TORX® blade TX IP 15 x 170 mm			
Nm blade Z2 x 170 mm			
Nm blade magnetic 170 mm			
Nm handle 3.0 - 5.4 Nm			
Adjusting spanner			

Bit set, 6-piece, 1/4", 73 mm



Characteristics

- Shank 1/4" (6.3), DIN 3126
- KL330: 3.0 x 0.5 mm / 3.5 x 0.6 mm / 4.0 x 0.8 mm / 5.5 x 1.0 mm / PH 1 / PH 2
- KL331: PH 1 / PH 2 / PH 3 / PZ1 / PZ2 / PZ3
- KL335: TX10 / TX15 / TX20 / TX25 / TX30 / TX40

Item	Blade length mm	Weight g	Number parts	Part No.
Bit assortment, 1/4", 73 mm	73	120	6	KL330
Bit assortment, 1/4", 73 mm	73	120	6	KL331
TORX® bit assortment, 1/4", 73 mm	73	120	6	KL335

Bit box Swift, 7-piece, 1/4", 25 mm



Characteristics

- Shank 1/4" (6.3), DIN 3126
- In practical holder
- Incl. magnetic holder
- KL340: 1.0 x 5.5 mm / 1.2 x 6.5 mm / PZ 1 / PZ 2 / PH 1 / PH 2

Item	Blade length mm	Weight g	Number parts	Part No.
Bit box Swift, 1/4", 25 mm	25	75	7	KL340

Combination spanner set, 12-pce.



Characteristics

- Material: Chrome vanadium
- Surface: chromed

Item	Dimension mm	Weight g	Part No.
Combination spanner set, 12-pce.	SW 8 - 22	1055	KL365

Control cabinet spirit level, 200 mm



Characteristics

- With horizontal, vertical and 45° spirit level

Item	Dimension mm	Weight g	Part No.
Control cabinet spirit level, 200 mm	200x42x17	65	KL420200



Alu spirit level



Characteristics

- With horizontal and vertical spirit level

Item	Dimension mm	Weight g	Part No.
Alu spirit level, 400 mm	400 x 40 x 15	210	KL425400
Alu spirit level, 600 mm	600 x 40 x 15	305	KL425600

Wooden folding rule, 2 m



Characteristics

- White/yellow
- No. of links 10

Item	Weight g	Part No.
Wooden folding rule, 2 m	126	KL402

Measuring tape, 3 m



Characteristics

- With 3 functions: Length, inside dimension and circles

Item	Weight g	Part No.
Measuring tape, 3 m	124	KL403

Carpenter's pencil



Characteristics

- Oval shape
- Pointed

Item	Weight g	Part No.
Carpenter's pencil	10	KL449

Marking pen



Characteristics

- Multimark permanent marker, black
- Fine tip 0.6 mm

Item	Weight g	Part No.
Marking pen	10	KL440F

Control cabinet key



Characteristics

- With chain, adapter and interchangeable bit 1/4"
- Inner square 5, 6 and 7-8 mm
- Triangular 9 mm
- Double pin keys 3 - 5 mm
- Bit PH2 and slot 1.2 x 0.7 mm
- Radiator valve key closing (5 mm square) in the centre slot

Item	Weight g	Part No.
Control cabinet key	75	KL500

Universal cabinet key, subkey Electro



Characteristics

- 30% lighter and simpler opening mechanism
- Inner square 5, 6 and 7-8 mm
- Triangular 9 mm
- Double pin keys 3 - 5 mm
- Including 1/4" bit mounting and 2 double bits
- Radiator valve key closing (5 mm square) on the pin head
- Bit slot 1.2 x 7 mm, PH2

Item	Dimension mm	Weight g	Part No.
Universal cabinet key, subkey Electro	145	120	KL510

Engineer's hammer



Characteristics

- Steel-forged head
- Ground finish
- With protective nylon shroud

Item	Dimension mm	Weight g	Part No.
Engineer's hammer, 300 g	370	300	KL580300
Engineer's hammer, 500 g	610	500	KL580500

Sledge hammer



Characteristics

- Steel-forged head
- Ground finish
- With protective nylon shroud

Item	Dimension mm	Weight g	Part No.
Club hammer, 1000 g	1150	1000	KL5821000
Club hammer, 1250 g	1400	1250	KL5821250



Jointing chisel



Characteristics

- Chrome vanadium steel
- Safety head, annealed

Item	Dimension mm	Weight g	Part No.
Jointing chisel	230 x 26 x 7	250	KL584230

Electricians chisel



Characteristics

- Chrome vanadium steel
- Safety head, annealed

Item	Dimension mm	Weight g	Part No.
Electrician's chisel, 200 mm	200	90	KL585200
Electrician's chisel, 250 mm	250	120	KL585250

Safety handle for jointing chisel



Suitable for

- Jointing chisel, part no. KL584230

Item	Weight g	Part No.
Safety handle for jointing chisel	110	KL586

Cable knife



Characteristics

- Hinged, with plastic handle

Item	Dimension mm	Weight g	Part No.
Cable knife	80	115	KL540

Mini saw



Characteristics

- With fixed wooden handle

Item	Dimension mm	Weight g	Part No.
Mini saw	290	95	KL559
Metal saw blades, 12-piece	150	2	KL550ES

Universal saw



Characteristics

- With fibreglass reinforced plastic handle

Item	Dimension mm	Weight g	Part No.
Universal saw	250	170	KL550
Metal saw blades, 12-piece	150	2	KL550ES

Combination scissors



Characteristics

- Serrated cutting edges
- With safety lock
- Cuts e.g. round and flat material from copper, aluminium, plastic, paper, cardboard, leather

Item	Dimension mm	Weight g	Part No.
Combination scissors	190	100	KL545

Universal knife



Characteristics

- With adjustable and replaceable blades

Item	Dimension mm	Weight g	Part No.
Universal knife		305	KL542
Replacement blade for universal knife	60 x 19 x 0.5	8	KL542ES

Cutter knife



Characteristics

- Knife with knock-off blades, all 9 mm

Item	Dimension mm	Weight g	Part No.
Cutter knife	9	45	KL544
Replacement blade for cutter knife	9	5	KL544ES

Apprentice case



► Tool case can be personalised with own brand logo - <http://www.klauke.com/personalization>

Characteristics

- Case shell from impact-resistant ABS
- Robust aluminium frame with abutting edges
- Two lockable clips

Item	Dimension mm	Weight kg	Part No.
Apprentice case	500 x 470 x 210	6.0	KL855B22
Scope of supply			Part No. Page
VDE Power combination pliers, 180 mm			KL020180IS 496
VDE Side cutter 160 mm			KL040160IS 497
VDE long-nose pliers, straight, 205 mm			KL050205IS 498
VDE Slotted screwdriver, 3.0 x 0.5 mm			KL10010030IS 500
VDE Slotted screwdriver, 4.0 x 0.8 mm			KL10010040IS 500
VDE Slotted screwdriver, 5.5 x 1.0 mm			KL10012555IS 500
VDE Pozidriv screwdriver, PZ1			KL120PZ1IS 501
VDE Pozidriv screwdriver, PZ2			KL120PZ2IS 501
VDE Plus/Minus-Pozidriv screwdriver, Z1			KL130PM1IS 501
VDE Plus/Minus-Pozidriv screwdriver, Z2			KL130PM2IS 501
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V			KL19073IS 502
Wooden folding rule, 2 m			KL402 516
Control cabinet spirit level, 200 mm			KL420200 515
Carpenter's pencil			KL449 516
Universal saw			KL550 519
Engineer's hammer, 300 g			KL580300 517
Cable knife with hooked blade			KL745HK 529
Automatic VDE wire stripper 0.2 - 6 mm ²			KL760180IS 499
Water brush			
Plasterer's bowl 125 mm			
Painter's spatula 40 mm			

Engineers professional case, 15-piece



► Engineers basic equipment, mainly with VDE tools

Characteristics

- Technicians Notebook tool bag
- Material: hard-wearing nylon
- 90° folding-out front pocket
- High-quality zipper
- Spray-water protected bottom
- Each side pocket has a zipper
- Adjustable carrying belt with quick-release fastener and shoulder pad
- Twin fixed carrying handle
- Insert for visitor cards

Item	Part No.	
Engineers professional case, 15-piece	KL905B15	
Scope of supply	Part No.	Page
Technicians professional case, empty	KL905L	523
VDE Phillips screwdriver, PH1	KL110PH1IS	500
VDE Phillips screwdriver, PH2	KL110PH2IS	500
VDE Slotted screwdriver, 2.5 x 0.4 mm	KL1007525IS	500
VDE Slotted screwdriver, 4.0 x 0.8 mm	KL10010040IS	500
VDE Slotted screwdriver, 5.5 x 1.0 mm	KL10012555IS	500
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V	KL19073IS	502
VDE Plus/Minus-Pozidriv screwdriver, Z1	KL130PM1IS	501
VDE Plus/Minus-Pozidriv screwdriver, Z2	KL130PM2IS	501
Cable knife with hooked blade	KL745HK	529
VDE long-nose pliers, straight, 205 mm	KL050205IS	498
VDE Electric power side cutter, 200 mm	KL044200IS	497
Round cable stripper 8 - 13mm ²	KL710	529
VDE Power combination pliers, 165 mm	KL020165IS	496
Measuring tape, 3 m	KL403	516

OEM bag, 22-piece



Characteristics

- Equipped with 22 mainly VDE-tested tools
- Robust version with plastic slide rails and upper metal rails with sponge rubber handle
- Adjustable carrying belt with quick-release fastener and shoulder pad
- Outdoors: 1 large lockable label pocket, 9 pockets, 2 Velcro® for fastening spirit level etc. Indoor connections: 3 compartments, 14 straps

Item	Dimension mm	Weight g	Part No.
OEM bag, 22-piece	350 x 200 x 200	2600	KL920B22
Scope of supply			Part No.
			Page
VDE Power combination pliers, 180 mm		KL020180IS	496
VDE Side cutter 160 mm		KL040160IS	497
VDE long-nose pliers, straight, 205 mm		KL050205IS	498
VDE Slotted screwdriver, 3.0 x 0.5 mm		KL10010030IS	500
VDE Slotted screwdriver, 4.0 x 0.8 mm		KL10010040IS	500
VDE Slotted screwdriver, 5.5 x 1.0 mm		KL10012555IS	500
VDE Pozidriv screwdriver, PZ1		KL120PZ1IS	501
VDE Pozidriv screwdriver, PZ2		KL120PZ2IS	501
VDE-Plus/Minus-Pozidriv screwdriver Z1		KL130PM1IS	501
VDE Plus/Minus-Pozidriv screwdriver Z2		KL130PM2IS	501
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V		KL19073IS	502
Cable knife with hooked blade		KL745HK	529
Automatic VDE wire stripper 0.2 - 6 mm ²		KL760180IS	499
Wooden folding rule, 2 m		KL402	516
Control cabinet spirit level, 200 mm		KL420200	515
Carpenter's pencil		KL449	516
Universal saw		KL550	519
Engineer's hammer, 300 g		KL580300	517
Electrician's chisel, 250 mm		KL585250	518

Professional installers case



Characteristics

- Robust version with plastic slide rails and upper metal rails with sponge rubber handle
- Adjustable carrying belt with quick-release fastener and shoulder pad
- Outdoors: 1 large lockable label pocket, 9 pockets, 2 Velcro® for fastening spirit level etc. Indoor connections: 3 compartments, 14 straps

Item	Dimension mm	Weight g	Part No.
Profi-installer's pocket	350 x 200 x 200	2600	KL920L

Technicians professional case, empty



Characteristics

- Material: highly durable nylon, splash-proof base
- 90° folding front pocket, each side pocket has a zipper
- Twin fixed carrying handle
- Adjustable carrying belt with quick-release fastener and shoulder pad
- Protected notebook compartment for laptops up to 17", dimensions 285 x 416 x 89 mm
- Insert for visitor cards
- High-quality zipper

Item	Dimension mm	Weight g	Part No.
Technicians professional case, empty	330 x 440 x 200	2600	KL905L

Tool case, empty



Characteristics

- Robust aluminium frame with abutting edges
- With lockable clips

Item	Dimension mm	Weight g	Part No.
Tool case Economy	490 x 365 x 188	4,5	KL855L
Tool case, empty	508 x 362 x 214	5,2	KL865L

Tool wallet from nylon, empty



Characteristics

- Material: Polytex
- Accepts up to 11 tools

Item	Dimension mm	Weight g	Part No.
Tool wallet from nylon, empty	200 x 200 x 50	100	KL910L

PREPARATION WITH PRECISION - STRIPPING TOOLS

In the world of professionals, every assignment counts. Better if you can rely on your tool. Stripping tools from Klauke remove insulation and cable sheathing quickly and precisely. All strands remain intact.



► For very precise use

- Fast and precise removal of insulation and cable sheathing
- Automatic cross-section adjustment
- Reduced effort due to optimum power transmission
- Reduced wear
- Including replacement blade

Special sheath and insulation materials call for special stripping tools! Innovative blade geometries guarantee a clean cut edge - with hard insulation such as PTFE (Teflon) through to soft/tough materials such as silicon!

Automatic wire stripper, 0.02 - 10 mm²



Characteristics

- Self-setting cutting and stripping tool for commercially available flexible cables 0.02 - 10 mm² and solid conductors to 1.5 mm²
- Easily replaceable blade system
- Long service life of pliers due to precise adjustment for stripping thin insulation without damaging the conductor
- Integrated side cutter

Item	Stripping range mm ²	Weight g	Part No.
Wire-stripping tool K43/2	0.02 - 10	140	K432
Automatic wire stripper K43/2-90, angled at 90°	0.02 - 10	140	K43290
Accessories			Part No.
Interchangeable cassette, black, for wire-stripping tool K432 0.02 - 10 mm ² flexible conductors and to 1.5 mm ² solid conductors			K432E
Interchangeable cassette, blue, for wire-stripping tool K432 for PTFE insulated conductors 0.1 - 4 mm ²			K432E2
Interchangeable cassette, red, for wire-stripping tool K432 / 4 - 16 mm ²			K432E3

Automatic wire stripper, 4 - 16 mm²



- ▶ Particularly suitable for application-specific cables in the plant and machinery construction, wind energy, robotics, eMobility, marine, shipbuilding, railway and rail transport sectors

Characteristics

- Self-adjusting cutting and stripping tool for application-specific solid and flexible cables
- Ideal, lightweight and ergonomic tool with a long service life
- Automatic opening of the clamping jaws after the stripping process for added safety
- No splicing of single conductors - conductor enters the cable end-sleeve with greater ease
- Integrated professional, readily accessible cable cutter - accelerates working processes
- Adjustable stop with metric and imperial display for precise stripping length

Item	Dimension mm	Stripping range mm ²	Weight g	Part No.
Automatic wire stripper, 4 - 16 mm ²	190	4 -16	140	K432U
Accessories			Part No.	Page
Wechselkassette rot für massive u. flexible Kabel 4 - 16 mm ²			K432E3	

Automatic wire stripper, 0.08 - 4 mm²



- ▶ Particularly suitable for application-specific cables in the plant and machinery construction, wind energy, robotics, eMobility, marine, shipbuilding, railway and rail transport sectors

Characteristics

- Self-adjusting cutting and stripping tool for application-specific solid and flexible cables
- Ideal, lightweight and ergonomic tool with a long service life
- Automatic opening of the clamping jaws after the stripping process for added safety
- No splicing of single conductors - conductor enters the cable end-sleeve with greater ease
- Integrated professional, readily accessible cable cutter - accelerates working processes
- Adjustable stop with metric and imperial display for precise stripping length

Item	Dimension mm	Stripping range mm ²	Weight g	Part No.
Automatic wire stripper, 0.1 - 4 mm ²	190	0.08 - 4	140	K432V
Accessories			Part No.	Page
Detachable magazine, blue for solid and flexible cables from 0.1 - 4 mm ²			K432E2	

Wire stripper with stepless stripping range 0.03 - 16 mm²



- ▶ First wire stripper with stepless stripping range 0.03 - 16 mm²
- ▶ Perfect for damage-free stripping of solid and flexible conductors with PVC

Characteristics

- Effortless working thanks to ergonomic styling
- Safe working thanks to integrated clamp protection
- Durable tool with easily replaceable blades
- Integrated side cutter up to max. 9 mm dia.
- High stability due to glass fiber reinforced polyamide
- Accurate and consistent stripping length thanks to adjustable stop

Item	Stripping range mm ²	Weight g	Part No.
Wire stripper with stepless stripping range 0.03 - 16 mm ²	0.03 - 16	140	K433
Accessories		Part No.	Page
Detachable magazine		K433E	

Wire stripper, 0.2 - 6 mm²



Characteristics

- Adjustable length stop from 5 - 12 mm
- Integrated easy to reach side cutter up to max. 2 mm dia.

Suitable for

- For all standard flexible and solid conductors from 0.2 - 6 mm²

Item	Dimension mm	Stripping range mm ²	Weight g	Part No.
Wire stripper for flexible and solid conductors	180	0.2 - 6	130	KL760180

Wire stripper for round and flat cables



Characteristics

- Fine adjustment (5-way) on various cable types and cable diameters
- Optical length dimension 8 - 24 mm (5/16 - 1 inch)
- Integrated side cutter up to max. 3 mm dia.

Suitable for

- Flat cable: Baring and stripping of 2-core PVC-insulated flat cables from 0.75 - 1.5 mm²
- Round cable: Baring and stripping flexible cables in the range 0.5 - 16 mm² (20-6 AWG), solid conductors 0.5 - 10 mm² (20-8 AWG)

Item	Dimension mm	Stripping range mm ²	Weight g	Part No.
Wire stripper for round and flat cables	180	0.5 - 16	205	KL765FR215

Automatic wire stripper for round cables in the solar technology sector



Characteristics

- Fine adjustment (5-way) on various cable types and cable diameters
- Integrated side cutter up to max. 3 mm dia.
- Optical length dimension 8 - 24 mm (5/16 - 1 inch)

Suitable for

- Baring and stripping of all standard, flexible cables from 1.5 mm² - 6.0 mm² (15-9 AWG) in the solar technology sector.

Item	Dimension mm	Stripping range mm ²	Weight g	Part No.
Automatic wire-stripping tool for round cables in the solar technology sector	180	1.5 - 6	205	KL765PV

K 400 Professional wire stripping tool 4.5 - 40 mm



Characteristics

- Max. cutting depth of the knife: 4.5 mm
- Max. baring diameter: 21 mm (small hook)
- Max. baring diameter: 40 mm (large hook)
- Stop hook is replaceable

Item	Dimension mm	Weight g	Part No.
K 400 Professional wire stripping tool 4.5 - 40 mm	200 x 93 x 33	120	K400
Accessories			Part No.
K 400E Replacement blade for wire stripping tool K 400			K400E

Cable knife without blade



Characteristics

- Precise, fast and safe stripping of all standard round cables
- No damage to inner conductor due to stepless adjustment of cutting depth
- Round and long cut due to self-rotating knife

Item	Dimension mm	Weight g	Part No.
Cable knife, without blade 4 - 16 mm dia.	4 - 16	70	KL740416
Cable knife, without blade 8 - 28 mm dia.	8 - 28	70	KL740828
Accessories			Part No.
Replacement blade for electricians knife with hooked blade			KL749ES

Cable knife with straight blade



Characteristics

- Precise, fast and safe stripping of all standard round cables
- Including protective cover for the blade
- Removable reducing adapter made from extremely abrasion-resistant plastic (POM)
- No damage to inner conductor due to stepless adjustment of cutting depth
- Round and long cut due to self-rotating knife

Item	Dimension mm	Weight g	Part No.
Cable knife with straight blade	4 - 28	80	KL745GK
Accessories			Part No.
Replacement blade for electricians knife with hooked blade			KL749ES

Cable knife with hooked blade

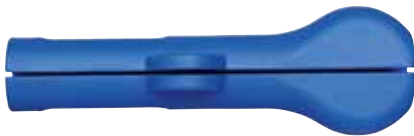


Characteristics

- Precise, fast and safe stripping of all standard round cables
- Including protective cover for the blade
- Removable reducing adapter made from extremely abrasion-resistant plastic (POM)
- No damage to inner conductor due to stepless adjustment of cutting depth
- Round and long cut due to self-rotating knife

Item	Dimension mm	Weight g	Part No.
Cable knife with hooked blade	4 - 28	80	KL745HK
Accessories		Part No.	Page
Replacement blade for electricians knife with hooked blade		KL749ES	

Round cable stripper 8 - 13 mm Ø



Characteristics

- Simple stripping even in hard-to-reach areas, e.g. ceiling and walls, junction and distribution boxes, switch cabinets etc.
- Strips round and damp proof installation cables from 8 - 13 mm dia. (e.g. NYM 3 x 1.5 mm² to 5 x 2.5 mm²)
- No need to adjust the cutting depth

Item	Dimension mm	Weight g	Part No.
Round cable stripper 8 - 13 mm Ø	8 - 13	43	KL710

Multi-stripper



Characteristics

- Universal stripping tool with the following functions: Baring, round cut, long cut, stripping, cutting

Item	Dimension mm	Weight g	Part No.
Multi-stripper	8 - 13	77	KL730



Hand tools

Stripping tools for communication technology

Photovoltaic stripper



Characteristics

- Replaceable blade system
- Protected blade
- Simple handling
- Fixed stripping from 8.5 mm
- Compact design

Suitable for

- For all standard PV cables to 8.5 mm

Item	Dimension mm	Weight g	Part No.
Photovoltaic stripper	8.5	40	KL735PV

Coax-stripper



Characteristics

- No need to adjust the cutting depth
- Gradual stripping of all standard coaxial cables (e.g. antenna and transmission cables) 4.8 - 7.5 mm outside diameter

Suitable for

- Flexible cables, e.g. 3 x 0.75 mm², 10 mm² and 16 mm²

Item	Part No.
Coax-stripper	KL720

DN-AW3 wire stripping tool, 2.5 - 11 mm



Characteristics

- For stripping signal, telephone, AV, control and data transmission cables from copper and fibreglass
- 9 adjustable cutting depths
- Cable capacity: 2.5 - 11 mm diameter
- Insulation thickness: up to 1 mm
- Interchangeable blade holder
- Including one holder with replacement blade

Item	Part No.	
DN-AW3 wire stripping tool, 2.5 - 11 mm	DNAW3	
Accessories	Part No.	Page
Spare holder for DN-AW3	DNAW3M	

PUTS CABLE WHERE IT NEEDS TO BE SIMPLY AND SAFELY.

Takes every corner flexibly and robustly – cable pulling technology from Greenlee is set apart by quality and the simplest operation possible for every challenge.





Cable pulling technology

Fish tapes/pulling rods	536
Polyester	536
Perlon	536
Nylon	536
Steel	537
Flex-O-Twist speed flex leader	537
Fibreglass cable pulling rods	537
<hr/>	
Cable pulling systems	538
With Polyester tapes (Dura Spinner and Flexi Spinner)	538
With fibreglass tapes (Speedy Spinner)	539
Fish tapes in winder case	540
Smart Butler, Polyester Butler	542
<hr/>	
Cable puller	544
Easy Roller (cable drum unwinder), Easy Roller Plus	544
Cable puller with accessory	545
<hr/>	
Pulling grips	547
Pulling grips, closed	547
Pulling grips, open	548
<hr/>	
Accessory	549

THE PULLING AID - CABLE PULLING TECHNOLOGY

Clean construction site - clean laying. Our cable pulling technology ensures that all cables are cleanly rolled in and out. No parts not required left lying around. No awkward handling. Greenlee pulling systems are made from high-quality ABS plastic. Making them robust and drop-proof. You are in control: Reliable laying with safe cable pulling technology.



In brief

- ▶ Simple pulling through of cables and conductors
- ▶ Cable puller made from polyester, perlon, nylon, steel and fibreglass
- ▶ Cable pulling rods for cavities and suspended ceilings
- ▶ Made from high-quality ABS plastic
- ▶ Solutions for light and heavy cable types, angled ducts or long straights

▶ **The Dura Spinner**

The Dura Spinner is small, but has a great effect. High-quality materials ensure robustness and the best functionality. Its user-friendly design also permits unwinding on the floor. The Dura Spinner is even able to hold in place cables that are laid around corners. A genuine help on the construction site.

- ABS plastic housing
- Cable puller made from virtually indestructible polyester tape
- Simple unwinding and rewinding
- Unwinding even on the floor
- User-friendly design ensures convenient and smooth operations





Polyester fish tape green 4.5 mm dia.



- ▶ 50% less friction than nylon tapes
- ▶ Extremely flexible and almost unbreakable

Characteristics

- High thrust due to twisted tape design
- Reduces the pulling force due to much lower friction
- Replaceable pulling eyelet and spring guide head

Additional information

- Further detailed information can be found in the application table on page i-12

Length	Part No.	Diameter mm
10 m	52055292	4.5
15 m	52055293	4.5
20 m	52055294	4.5
25 m	52055295	4.5
30 m	52055296	4.5

Accessory	Part No.
5-piece accessory set for polyester fish tapes	52055396
Rotating spring guide head with eyelet, M5, 7 mm dia	52055264

Perlon® fish tape 4 mm dia.



Characteristics

- With pressed M4 front piece
- With unscrewable spring guide head and pulling eyelet

Additional information

- Further detailed information can be found in the application table on page i-12

Length	Part No.	Diameter mm
5 m	52055276	4
10 m	52055277	4
15 m	52055278	4
20 m	52055279	4
25 m	52055280	4
30 m	52055281	4

Accessory	Part No.
Replacement parts for Perlon fish tapes, comprising pulling eyes WW 1/2" (1) and spring guide head M4 (1)	52055288

Nylon fish tape 4 mm dia.



Characteristics

- With pressed spring guide head and eyelet

Additional information

- Further detailed information can be found in the application table on page i-12

Length	Part No.	Diameter mm
5 m	52055270	4
10 m	52055271	4
15 m	52055272	4
20 m	52055273	4
25 m	52055274	4
30 m	52055275	4
10 m including rotating spring guide head	52055260	4
20 m including rotating spring guide head	52055261	4
30 m including rotating spring guide head	52055262	4

Accessory	Part No.
Rotating spring guide head with eyelet, M4, 6 mm dia.	52055263

Steel fish tape 4 mm dia.



Characteristics

- With pressed spring guide head and eyelet

Additional information

- Further detailed information can be found in the application table on page i-12

Length	Part No.	Diameter mm
10 m	52055283	4
20 m	52055285	4

Flex-O-Twist™ speed flex leader

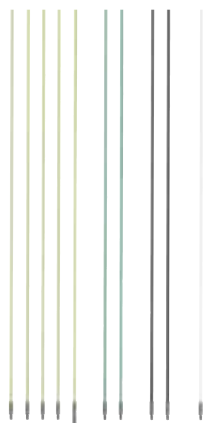


Characteristics

- Especially suitable for sharp bends
- Flexible fish tape leader

Length	Part No.
300 mm	50308599

Fibreglass cable pulling rods



Characteristics

- Almost unbreakable due to special outer jacket
- Time-saving cable laying
- Laying also under the most difficult conditions

Suitable for

- Cable installation and laying
- Pulling or pushing

Length	Part No.	Version
10 m	52055385	Comprising of: 4 pce. light green fibreglass rods 5.6 mm dia. with WW connecting sleeve, 1 pce. light green fibreglass rod 5.6 mm dia. with WW connecting sleeve and universal joint, 2 pce. black fibreglass rods 6 mm dia. with WW connecting sleeve, 1 pce. white nylon rod 4 mm dia. with WW connecting sleeve, 2 pce. green fibreglass rods 4.6 mm dia. with WW connecting sleeve
5 m	52055386	Consists of: 3 pce. light green fibreglass sticks 5.6 mm dia. with WW connecting bushing, 1 pce. black fibreglass stick 6 mm dia. with WW connecting bushing, 1 pce. white nylon stick 4 mm dia. with WW connecting bushing

Accessories	Part No.
Accessory set for cable pulling rods, 8-pcs.	52055387
Accessory set for cable pulling rods, 4-pcs.	52055388

Dura Spinner polyester fish tape system



- ▶ Cable pulling systems with innovative, extremely robust, twisted polyester fish tape
- ▶ Rotatable spring guide head

Characteristics

- Extremely robust fish tape for very narrow bending radii
- This product's high thrust makes it the ideal solution for laying additional cables
- New rotatable spring guide head
- Suitable for rigid and flexible conduits
- Tape pulled in and out very simply
- Can also be uncoiled on the floor
- Including accessories and spare parts
- Robust ABS housing
- No more broken tapes

Suitable for

- The laying of additional cables

Item	Part No.
Dura Spinner 3.0 mm dia., 20 m	52074656
Dura Spinner 3.0 mm dia., 30 m	52074657
Scope of supply	Part No.
Rotating spring guide head with eyelet, M4, 6 mm dia.	52055263
Pulling eye, M4	52055266
Pulling aid for pulling system 3 - 6 mm dia.	52055311
Accessories	Part No.
Dura Spinner spare fish tape 3.0 mm dia., 20 m	52074654
Dura Spinner spare fish tape 3.0 mm dia., 30 m	52074655

Flexi Spinner polyester cable pulling system



- ▶ Almost unbreakable
- ▶ Approx. 50 % less frictional resistance compared with nylon and perlon
- ▶ High thrust for long distances with narrow bending radius

Characteristics

- Highly-flexible polyester tape
- Modern design
- Robust housing

Additional information

- Further detailed information can be found in the application table on page i-12

Item	Length	Part No.	Diameter mm
Flexi Spinner polyester cable pulling system	20 m	52055389	4.5
Flexi Spinner polyester cable pulling system	25 m	52055390	4.5
Flexi Spinner polyester cable pulling system	30 m	52055391	4.5
Flexi Spinner, winder case empty		52055392	
Scope of supply	Part No.	Quantity	
5-piece accessory set for polyester fish tapes	52055396	1	
Accessories	Part No.	Page	
Polyester fish tape green 4.5 mm dia., 20 m	52055294	536	
Polyester fish tape green 4.5 mm dia., 25 m	52055295	536	
Polyester fish tape green 4.5 mm dia., 30 m	52055296	536	
Rotatable head with eye M5, dia. 7 mm	52055264		

Speedy Spinner fibreglass cable pull-in system



- ▶ Unique, user-friendly design
- ▶ Very simple and quick pulling in and out of fibreglass tapes

Characteristics

- One-handed operation
- Uncoiling also possible on the floor
- Flexible fibreglass spring for quick pulling in and out
- High thrust
- Accessory set supplied as standard

Suitable for

- Tube diameter: 16 - 32 mm

Additional information

- Further detailed information can be found in the application table on page i-12
- Always order repair adhesive separately!

Item	Diameter mm	Length	Part No.
Speedy Spinner fibreglass cable pull-in system	3	20 m	52055298
Speedy Spinner fibreglass cable pull-in system	3	30 m	52055299
Speedy Spinner fibreglass cable pull-in system	3	40 m	52055300
Scope of supply			Part No. Quantity
Head with eye M5			52055304 3
Spring guide head with eye M5			52055305 1
Spring guide head with eye M5 - 10 mm			52055306 1
Start/bushing sleeves M5			52055308 3
Connecting sleeves			52055309 3
Cable grip M5, 4-15 mm dia.			52055310 1
Pulling aid for pulling system 3 - 6 mm dia.			52055311
Accessories			Part No.
Speedy Spinner accessory, repair patch for fibreglass tape 3 mm dia.			52055312
Fibreglass replacement tape 3 mm dia., 20 m			52055289
Fibreglass replacement tape 3 mm dia., 30 m			52055290
Fibreglass replacement tape 3 mm dia., 40 m			52055291
Speedy Spinner repair set, 10-piece			52055303
Rotatable head with eye M5, dia. 7 mm			52055264
Item repair set			Part No.
Speedy Spinner repair set, 10-piece			52055303
Scope of supply repair set			Part No. Quantity
Head with eye M5			52055304 3
Start/bushing sleeves M5			52055308 3
Connecting sleeves			52055309 3
Pulling aid for pulling system 3 - 6 mm dia.			52055311 1

EASILY FORGOTTEN:

Be aware of the laying temperatures of cables and conductors! These can be obtained from manufacturer's data sheets. For a NYM conductor, for example, this temperature is +5° C.

MagnumPRO™ oil-hardened steel fish tape



Characteristics

- Winder case eases cable pulling
- Dirt-free tape finish
- High impact nylon winder case with large handle grip

Item	Tape dimensions mm	Length	Part No.
MagnumPRO™ oil-hardened steel fish tape	3.2 x 1.5	19.8 m	52041709
MagnumPRO™ oil-hardened steel fish tape	6.4 x 1.5	30.5 m	52041745
MagnumPRO™ oil-hardened steel fish tape	3.2 x 1.5	38.1 m	52041741
MagnumPRO™ oil-hardened steel fish tape	3.2 x 1.5	73.2 m	52041743
Accessories			Part No.
MagnumPRO™ oil-hardened steel fish tape 60 m			52044594

MagnumPRO™ stainless steel fish tape



- ▶ Stainless, speed flex leader
- ▶ Slim pulling eyelet permits trouble-free pulling in long and winding conduits

Characteristics

- Can be used in conjunction with every steel fish tape with a tape dimension of 3.0 x 1.5 mm
- High impact nylon winder case with large handle grip

Item	Tape dimensions mm	Length	Part No.
MagnumPRO™ stainless steel fish tape	3.2 x 1.5	30.5 m	52041746
MagnumPRO™ stainless steel fish tape	3.2 x 1.5	61 m	52041747
Accessory			Part No.
Speed Flex leader for fish tapes with tape dimension 3.0 x 1.5 mm			50143921

MagnumPRO™ nylon fish tape



- ▶ Non-conductive, non-coiling nylon tape

Characteristics

- Diameter 4.8 mm
- High impact nylon winder case with large handle grip

Item	Diameter mm	Length	Part No.
MagnumPRO™ nylon fish tape	4.8	15.2 m	52041750
MagnumPRO™ nylon fish tape	4.8	30.5 m	52041751
Accessory			Part No.
Replacement tip			50016644

MagnumPRO™ fish tape



Characteristics

- Fish tape from multi-strand steel tape
- Flexible type
- High impact nylon winder case with large handle grip

Suitable for

- For quick and simple application

Item	Diameter mm	Length	Part No.
MagnumPRO™ fish tape	4.8	15.2 m	52041748
MagnumPRO™ fish tape	4.8	30.5 m	52041749

MagnumPRO™ fibreglass fish tape



Characteristics

- Non-conductive fibreglass tape with low friction coating
- To fish in small and large conduits even with wire or cable in place
- High impact nylon winder case with large handle grip

Suitable for

- Data and telecommunication industry

Item	Diameter mm	Length	Part No.
MagnumPRO™ fibreglass fish tape	4.3	15.2 m	52041752
MagnumPRO™ fibreglass fish tape	4.3	30.5 m	52041753
MagnumPRO™ fibreglass fish tape	4.8	61 m	50357468
Accessory			Part No.
Fibreglass fish tape accessory set			50357506
Pulling eyelet 4.8 mm			50359304

Steel fish tape EZ Reach



Characteristics

- With hand crank
- Flat steel tape for working above suspended ceilings, under carpets and through walls

Item	Tape dimensions mm	Length	Part No.
Steel fish tape EZ Reach	6.4 x 0.8	7.6 m	50016962

Smart Butler fibreglass cable pulling-in system with steel reel basket



- ▶ Unique, user-friendly design, galvanised and sprayed
- ▶ Teflon-coated adapter for low resistance when winding and unwinding

Characteristics

- High thrust
- Low-friction unwinding and rewinding
- Secure working thanks to operative holding brake
- Effective working with accessories mounted directly on frame
- From size 790 mm dia. steel reel basket, incl. rollers

Additional information

- 4.5 / 6 mm dia.: Tension head with eyelet, fish tape with pressed start/end sleeves, connecting sleeve WW 1/4" - M6, starting spinner with shackle
- 7.5 / 9 / 11 mm dia.: Tension head with eyelet, fish tape with pressed start/end sleeves, connecting sleeve WW 1/2" - M12, starting spinner with shackle

Item	Diameter mm	steel reel basket mm	Version	Length	Weight kg	Part No.
Smart Butler fibreglass cable pulling-in system 4.5 mm dia. with steel reel basket 330 mm dia. 40 m	4.5	330 dia.		40 m	4	52055313
Smart Butler fibreglass cable pulling-in system 330 mm dia. steel reel basket, 60 m	4.5	330 dia.		60 m	5	52055315
Smart Butler fibreglass cable pulling-in system 330 mm dia. steel reel basket, 80 m	4.5	330 dia.		80 m	6	52055316
Smart Butler fibreglass cable pulling-in system 550 mm dia. steel reel basket, 40 m	6.0	550 dia.		40 m	10	52055325
Smart Butler fibreglass cable pulling-in system 550 mm dia. steel reel basket, 60 m	6.0	550 dia.		60 m	11	52055326
Smart Butler fibreglass cable pulling-in system 550 mm dia. steel reel basket, 80 m	6.0	550 dia.		80 m	12	52055327
Smart Butler fibreglass cable pulling-in system 550 mm dia. steel reel basket, 100 m	6.0	550 dia.		100 m	12	52055328
Smart Butler fibreglass cable pulling-in system 660 mm dia. steel reel basket, 40 m	7.5	660 dia.		40 m	13	52055337
Smart Butler fibreglass cable pulling-in system 660 mm dia. steel reel basket, 60 m	7.5	660 dia.		60 m	14	52055338
Smart Butler fibreglass cable pulling-in system 660 mm dia. steel reel basket, 80 m	7.5	660 dia.		80 m	15	52055339
Smart Butler fibreglass cable pulling-in system 660 mm dia. steel reel basket, 100 m	7.5	660 dia.		100 m	17	52055340
Smart Butler fibreglass cable pulling-in system 660 mm dia. steel reel basket, 120 m	7.5	660 dia.		120 m	18	52055341
Smart Butler fibreglass cable pulling-in system 660 mm dia. steel reel basket, 40 m	9.0	660 dia.		40 m	14	52055347
Smart Butler fibreglass cable pulling-in system 660 mm dia. steel reel basket, 60 m	9.0	660 dia.		60 m	16	52055348
Smart Butler fibreglass cable pulling-in system 790 mm dia. steel reel basket, 80 m	9.0	790 dia.	incl. rollers	80 m	31	52055349
Smart Butler fibreglass cable pulling-in system 790 mm dia. steel reel basket, 100 m	9.0	790 dia.	incl. rollers	100 m	33	52055350
Smart Butler fibreglass cable pulling-in system 1000 mm dia. steel reel basket, 120 m	9.0	1000 dia.	incl. rollers	120 m	35	52055351
Smart Butler fibreglass cable pulling-in system 1000 mm dia. steel reel basket, 150 m	9.0	1000 dia.	incl. rollers	150 m	37	52055352
Smart Butler fibreglass cable pulling-in system 1000 mm dia. steel reel basket, 150 m	11.0	1000 dia.	incl. rollers	150 m	53	52055359
Smart Butler fibreglass cable pulling-in system 1000 mm dia. steel reel basket, 200 m	11.0	1000 dia.	incl. rollers	200 m	60	52055360
Smart Butler fibreglass cable pulling-in system 1000 mm dia. steel reel basket, 250 m	11.0	1000 dia.	incl. rollers	250 m	67	52055361
Smart Butler fibreglass cable pulling-in system 1000 mm dia. steel reel basket, 300 m	11.0	1000 dia.	incl. rollers	300 m	75	52055362

Accessories	Part No.
Smart Butler fibreglass replacement tape 4.5 mm dia., 40 m	52055317
Smart Butler fibreglass replacement tape 4.5 mm dia., 60 m	52055318
Smart Butler fibreglass replacement tape 4.5 mm dia., 80 m	52055319
Smart Butler fibreglass replacement tape 6 mm dia., 40 m	52055329
Smart Butler fibreglass replacement tape 6 mm dia., 60 m	52055330
Smart Butler fibreglass replacement tape 6 mm dia., 80 m	52055331
Smart Butler fibreglass replacement tape 6 mm dia., 100 m	52055332
Smart Butler fibreglass replacement tape 7.5 mm dia., 40 m	52055342
Smart Butler fibreglass replacement tape 7.5 mm dia., 60 m	52055343
Smart Butler fibreglass replacement tape 7.5 mm dia., 80 m	52055344
Smart Butler fibreglass replacement tape 7.5 mm dia., 100 m	52055345
Smart Butler fibreglass replacement tape 7.5 mm dia., 120 m	52055346
Smart Butler fibreglass replacement tape 9 mm dia., 40 m	52055353
Smart Butler fibreglass replacement tape 9 mm dia., 80 m	52055355
Smart Butler fibreglass replacement tape 9 mm dia., 100 m	52055356
Smart Butler fibreglass replacement tape 9 mm dia., 120 m	52055357
Smart Butler fibreglass replacement tape 9 mm dia., 150 m	52055358
Smart Butler fibreglass replacement tape 11 mm dia., 150 m	52055363
Smart Butler fibreglass replacement tape 11 mm dia., 200 m	52055364
Smart Butler fibreglass replacement tape 11 mm dia., 250 m	52055365
Smart Butler fibreglass replacement tape 11 mm dia., 300 m	52055366
Starter and end bushing WW ¼" for fish tape 4.5 mm dia.	52055321
Starter and end bushing WW ¼" for fish tape 6.0 mm dia.	52055333
Starter and end bushing WW ½" for fish tape 7.5 mm dia.	52055369

Accessory	Part No.
Starter and end bushing WW ½" for fish tape 9 mm dia.	52055370
Starter and end bushing WW ½" for fish tape 11 mm dia.	52055371
Connecting sleeve for fibreglass 4.5 mm dia.	52055322
Connecting sleeve for fibreglass 6 mm dia.	52055334
Connecting sleeves for fibreglass tape 9 mm dia.	52055372
Connecting sleeves for fibreglass tape 11 mm dia.	52055373
Connecting sleeve WW 1/2" with rotary swivel	52055374
Bulb with shackle WW ¼" for 4.5 mm dia.	52055323
Bulb with shackle WW ¼" for 6.0 mm dia.	52055335
Bulb with shackle WW ½" for 7.5 mm dia.	52055367
Bulb with castor WW ½"	52055368
Tension head with eyelet WW 1/4" for 4.5 - 6 mm dia.	52055320
Emergency repair set for fibreglass tape 4.5 mm dia.	52055324
Emergency repair set for fibreglass tape 6 mm dia.	52055336
Emergency repair set for fibreglass tape 7.5 mm dia.	52055375
Emergency repair set for fibreglass tape 9 mm dia.	52055376
Emergency repair set for fibreglass tape 11 mm dia.	52055377

Mechanical counter for Smart Butler



Characteristics

- Mechanical counter
- Can be retrofitted for smart butlers from 6 mm and production date from May 2019

Item	Part No.
Mechanical counter for 6 mm dia.	52055267
Mechanical counter for 7.5 / 9 and 11 mm dia.	52055268



Polyester Butler cable pulling system with steel reel basket



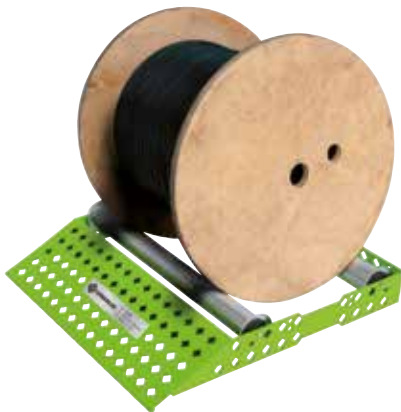
- ▶ Unique, user-friendly design, galvanised and sprayed
- ▶ Teflon-coated adapter for low resistance when winding and unwinding

Characteristics

- High thrust
- Low-friction unwinding and rewinding
- Secure working thanks to operative holding brake
- Effective working with accessories mounted directly on frame

Item	Diameter mm	steel reel basket mm	Length m	Weight kg	Part No.
Polyester Butler cable pulling system 350 mm dia. steel reel basket, 50 m	6	Ø 350	50	10	52074658
Scope of supply					Part No.
Smart Butler accessory - start/end sleeves WW 1/4" for rod 4.5 mm dia.					52055321
Smart Butler accessory - starting spinner with shackle WW 1/4" for 4.5 mm dia.					52055323
Spring guide head with eye M5					52055265
Head with eye M5 WW 1/4" for dia. 4.5 - 6 mm					52055320

Easy Roller cable drum unwinder



- ▶ Unique, user-friendly design
- ▶ 30 % less weight
- ▶ Ramp with shallow incline

Characteristics

- Light - 30% less weight
- Easy loading and unloading of heavy cable drums thanks to the shallow inclined ramp
- Rollers with integrated side guides
- Possible to fit to the cable drum diameter

Suitable for

- Large and small cable drums
- Width 530 mm, 200 kg carrying capacity
- Width 670 mm, 250 kg carrying capacity

Item	Dimension mm	Width mm	Part No.
Standard	530 x 570 x 90	530	52055383
Wide	670 x 605 x 95	670	52055384
Accessory			Part No.
Easy Roller replacement roller, standard			52055383ER
Easy Roller replacement roller, wide			52055384ER

Cable drum uncoilers Easy Roller Plus



- ▶ Reduced incline on the loading ramp allows simple rewinding of the cable drum
- ▶ Handles for easy positioning and carrying
- ▶ Ball-bearing mounted rollers
- ▶ U-sections for fixing the unwinding rails

Additional information

- Cable drum unwinders consisting of 2 cable drum unwinding rails and one spacer rail

Item	Dimensions mm	Weight kg	Part No.
Cable drum uncoiler Easy Roller Plus S	950 x 145 x 110	33.5	52055401
Cable drum uncoiler Easy Roller Plus L	1050 x 145 x 110	35.5	52055402
Cable drum uncoiler Easy Roller Plus ALS	950 x 145 x 110	19.5	52055403

Rope for cable puller 6800-22 CE



Characteristics

- Breaking strength approx. 14.2 t
- Rope diameter 22 mm
- Rope on rope stand

Item	Part No.
Rope for cable puller 6800-22 CE, 91 m	50341367
Rope for cable puller 6800-22 CE, 182 m	50341375
Rope for cable puller 6800-22 CE, 365 m	50341383
Rope stand for ropes 91 m and 182 m	50343629



Tray type sheaves for cable puller 6800-22 CE



Characteristics

- Steel frames with forged eyelet 25 mm
- Sheaves from aluminium alloy with self-lubricating bearings
- Max. rated capacity 3.6 t
- Tool support/hanging ring (Carabiner)

External diameter mm	Internal radius mm	Width mm	Weight kg	Part No.
300	100	125	12	50008722
460	180	150	20	50008730
600	250	165	30	50008749

Platform-type sheave 125 mm

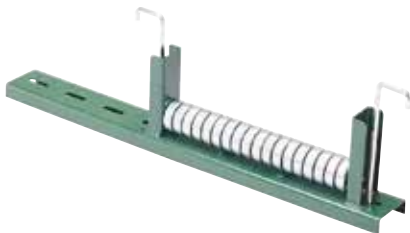


Characteristics

- Sheaves from aluminium alloy
- Self-lubricating bearings
- Steel frames for mounting to cable ducts up to 50 mm thickness
- Extremely robust

Length mm	Width mm	Weight kg	Part No.
300	125	5	50153323
560	125	8	50190946

Platform-type sheave



Characteristics

- Steel ball-bearings
- Steel frames
- Mounting slots
- Universal mounting brackets

Part No.	Version	Width of cable conduit mm	Weight kg
50273868	Straight	600 - 760	5.9
50273884	Radius	300 - 450	5

Pulling grips Junior, closed

Characteristics

- Single weave, galvanized steel mesh with flexible pulling eyelet

Suitable for

- The pulling-in of small diameter cables
- For manual pulling of feed lines in pipes and cable ducts



Part No.	Length of mesh mm	Eye length mm	For cable diameter mm	Max. pulling force kN
50305964	110	83	5 - 6	0.3
50305840	110	83	7 - 9	0.4
50305867	180	96	10 - 12	0.8
50305883	220	110	13 - 15	1.1
50305905	255	130	16 - 18	1.7
50305921	255	146	19 - 25	2.4
50305948	300	165	26 - 31	3.4

T-Basket type pulling grips, closed

Characteristics

- Double weave galvanized steel mesh with flexible pulling eyelet

Suitable for

- Medium-weight pulls in pipes and cable ducts



Part No.	Length of mesh mm	Eye length mm	For cable diameter mm	Max. pulling force kN
50305581	535	200	13 - 15	4.0
50305603	610	200	16 - 18	4.9
50305620	610	230	19 - 25	6.0
50305646	610	230	26 - 38	8.7
50305662	610	280	39 - 50	14.5
50305689	610	300	51 - 63	16.4
50305700	610	300	64 - 76	21.7
50305727	610	360	77 - 88	21.7
50305743	660	360	89 - 100	27.5
50305760	915	230	19 - 25	6.0
50305786	915	230	26 - 38	8.7
50310100	915	280	39 - 50	14.5
50305808	915	300	51 - 63	16.4
50310127	915	300	64 - 76	21.7
50305824	915	360	77 - 88	21.7
50310143	1020	360	89 - 100	27.5

Use a pulling grip so you don't have to strip the cable before it is pulled in! A cable grip allows you to pull with greater force. This prevents tapering of the cross-section.



Pulling grip set, closed



Characteristics

- Set of the most important pulling grips for the most frequently required pulling operations

Part No.	Diameter mm
50307584	7 - 31
50314823	19 - 50
50314831	51 - 76
50314840	19 - 76

Pulling grip, open



Characteristics

- Single weave, galvanised steel netting mesh with bar closure
- Offset flexible eyelet

Suitable for

- Easy and straight pulls when the cable end is not available

Part No.	Length of mesh mm	Eye length mm	For cable diameter mm	Max. pulling force kN
50306588	150	175	13 - 15	1.3
50310240	200	175	16 - 18	1.6
50306600	250	175	19 - 25	1.9
50310267	300	200	26 - 31	3.0
50306626	350	200	32 - 38	4.0
50310283	380	230	39 - 44	5.1
50306642	400	250	45 - 50	6.7
50310305	480	250	51 - 63	8.0
50306669	500	250	64 - 76	9.7
50310321	530	300	77 - 88	10.6
50306685	600	300	89 - 100	10.6

Cable installation lubricant



Characteristics

- Reduces friction by up to 80 %
- Biodegradable
- Harmless to the user

Suitable for

- Electric/telephone cables in pipes 16 - 25 mm dia.
- Large cable diameters

Item	Part No.
Cable lubricant gel in tube 0.25 kg	52055379
Lubricant foam bottle 1.00 kg	52055380
Cable lubricant liquid for optical fibres and power cables, canister 5 kg	52055381
Cable lubricant liquid for optical fibres and power cables, canister 10 kg	52055382

Lubricant spray



Characteristics

- Reduces friction by up to 80 %
- Biodegradable
- Silicon-free
- Not flammable



Suitable for

- Electric/telephone cables in pipes 16 - 25 mm dia.

Item	Part No.
Lubricant foam bottle 400 ml	52055378



Technical Appendix

	Technical notes on the various crimping types	i-2
	Legend of pictograms used for type of conductors	i-2
	<hr/>	
	Legend of pictograms used for connecting materials	i-3
	<hr/>	
	Special properties of connecting materials	i-4
	Material properties	i-4
	Electrical properties	i-4
	Mechanical properties	i-4
	Assignment of cables and conductors	i-5
	<hr/>	
	Processing instructions for connecting materials	i-6
	Assembly instructions for cable lugs and connectors	i-6
	Assembly instructions for sleeves for type VHR and VHD compacted conductors	i-7
Processing instructions for reduction sleeves	i-7	
Assembly instructions for full tension Al/steel connectors to DIN 48085, part 3	i-7	
General notes	i-8	
<hr/>		
Processing instructions for screw connectors	i-8	
<hr/>		
Check-list for custom made cable lugs and connectors	i-9	
<hr/>		
Check-list for custom made crimping dies	i-10	
<hr/>		
Conversion charts	i-11	
<hr/>		
	General technical information	i-12
	Cable pulling technology – Typical applications	i-12
	Metric cable glands EN 50262	i-13
	Holemaking systems	i-13
	Hydraulic punches	i-13
	Standards and norms	i-14
<hr/>		
Alphabetical index	i-16	
Alphanumerical Index	i-18	



Technical notes on the various crimping types

	Crimping	Designation
	Hexagonal crimping	for crimping tubular copper cable lugs and connectors "standard type", tubular cable lugs for switchgear connections, compression cable lugs and connectors to DIN 46235/DIN 46267, aluminum cable lugs and connectors
	Indent crimping	for crimping tubular copper cable lugs and connectors "standard type", tubular cable lugs for switchgear connections, solderless terminals to DIN 46234 and pin cable lugs to DIN 46230, insulated solderless terminals, tubular cable lugs and connectors for fine stranded conductors, nickel tubular cable lugs and connectors, stainless steel tubular cable lugs and connectors
	Oval crimping	for crimping tubular double compression cable lugs, C-clamps, insulated tubular cable lugs and connectors, insulated pin cable lugs and compression joints to DIN 48217, insulated cable connectors
	Indent crimping	for crimping copper tubular cable lugs and connectors "standard type", tubular cable lugs for switchgear connections, tubular cable lugs and connectors for fine stranded conductors
	Double indent crimping	for crimping copper tubular cable lugs and connectors "standard type", tubular cable lugs for switchgear connections, nickel tubular cable lugs and connectors, stainless steel tubular cable lugs and connectors
	Trapezoid crimping	for crimping cable end-sleeves and twin cable end-sleeves
	Indent crimping	for crimping cable end-sleeves and twin cable end-sleeves
	Square crimping	for crimping cable end-sleeves and twin cable end-sleeves
	Roll crimping	for crimping non-insulated receptacles and cable end-sleeves DIN 46228, part 2
	Round crimping	for crimping cable end-sleeves and twin cable end-sleeves of 90° and 120° sector-shaped conductors
	Quad-point indent crimping	for crimping copper tubular cable lugs and connectors "standard type", tubular cable lugs for switchgear connections, tubular cable lugs and connectors for fine stranded conductors
	Four point crimping	for crimping turned pin receptacles and pin connectors
	Special trapezoid crimping	particularly for crimping cable end-sleeves with compacted fine stranded conductors
	Gas-tight oval crimping	Crimp quality according to automotive standards




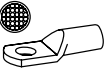
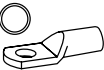


















Please consider the material of the conductor (Cu, Al and Cu/Al). This information is shown in the pictogram.

Legend of pictograms used for type of conductors

	Type of cables		Type of cables
	Solid conductor (class 1 according to DIN EN 60228) made of bright or coated soft-annealed copper, aluminium or aluminium alloy		Solid sector shaped conductor 90° (class 1 according to DIN EN 60228) made of aluminium or aluminium alloy
	Multi-stranded conductor (class 2 according to DIN EN 60228) made of bright or coated soft-annealed copper, aluminium or aluminium alloy		Compacted multi-stranded sector shaped conductor 120° (class 2 according to DIN EN 60228) made of bright or coated soft-annealed copper, aluminium or aluminium alloy
	Compacted multi-stranded conductor (class 2 according to DIN EN 60228) made of bright or coated soft-annealed copper, aluminium or aluminium alloy		Compacted multi-stranded sector shaped conductor 90° (class 2 according to DIN EN 60228) made of bright or coated soft-annealed copper, aluminium or aluminium alloy
	Fine stranded conductor (class 5 according to DIN EN 60228) made of bright or coated soft-annealed copper		Copper conductor for overhead lines (DIN 48201-1) and aluminium or aluminium alloy conductors (DIN EN 50182)
	Superfine stranded conductor (class 6 according to DIN EN 60228) made of bright or coated soft-annealed copper		Conductor for overhead lines (DIN EN 50182) made of aluminium / steel
	Solid sector shaped conductor 120° (class 1 according to DIN EN 60228) made of aluminium or aluminium alloy		

Legend of pictograms used for connecting materials

	Designation
	Copper compression cable lugs, double crimp (double cable entry)
	Tubular cable lugs and connectors – Cu, standard type
	Insulated cable lugs and connectors; standard type
	Tubular cable lugs and connectors for fine stranded conductors
	Tubular cable lugs and connectors for solid conductors
VA 	Tubular cable lugs and connectors – stainless steel
Ni 	Tubular cable lugs and connectors – Ni
DIN 	Compression cable lugs and connectors to DIN – Cu
	Solderless terminals, connectors and pin terminals to DIN – Cu
	Insulated solderless terminals
	Sleeves for compacted conductors and sector-shaped conductors – Cu
Aldrey 	Compression cable lugs and connectors for Aldrey cables
Al/St 	Compression cable lugs and connectors for Al/St cables
Al 	Compression cable lugs and connectors to DIN – Al
Al/Cu 	Compression cable lugs and connectors – Al/Cu
	C-clamps
	H-clamps
	Cable end-sleeves
	Twin cable end-sleeves
	Insulated cable connections
	Non-insulated receptacles



Material properties

Information on materials used for copper and aluminum cable lugs and connectors

- All copper tubular cable lugs, solderless terminals, pin terminals and the corresponding connectors are manufactured from Cu to DIN 13600.
- Cable end-sleeves to DIN 46228 part 1 and part 4 are manufactured from Cu to DIN EN 13600.
- Aluminum compression cable lugs and connectors are manufactured from E-Al 99.5 to DIN 1712.

Electrical properties

- Our cable connections can be loaded with the currents defined in VDE 0298. For higher current loads, we ask for consultation. The current values of VDE 0298 can be found in the table below.

Nominal cross-section mm ²	Group 1 One or more single-core conductors laid in conduits		Group 2 Multi-core conductors, e. g. sheathed conductors, conduit wires, lead-sheathed conductors, flat webbed conductors, flexible cables		Group 3 Overhead single-core conductors with clearance of at least their diameter	
	Cu (A)	Al (A)	Cu (A)	Al (A)	Cu (A)	Al (A)
0.75	–	–	12	–	15	–
1	11	–	15	–	19	–
1.5	15	–	18	–	24	–
2.5	20	–	26	–	32	–
4	25	–	34	–	42	–
6	33	–	44	–	54	–
10	45	–	61	48	73	57
16	61	48	82	64	98	77
25	83	65	108	85	129	103
35	103	81	135	105	158	124
50	132	103	168	132	198	155
70	165	–	207	163	245	193
95	197	–	250	197	292	230
120	235	–	292	230	344	268
150	–	–	335	263	391	310
185	–	–	383	301	448	353
240	–	–	453	357	528	414
300	–	–	504	409	608	479
400	–	–	–	–	726	569
500	–	–	–	–	830	649

Values applicable only at an ambient temperature of 30 °C

Mechanical properties

- The connections produced according to the assembly instructions with our tools comply with the tensile strength requirements of the standards IEC 61238-1, DIN EN 60999 and DIN EN 60352-2.

i **Please note,** that crimping solderless cable connections using tools from other manufactures does not guarantee a proper connection. We recommend only the use of solderless cable connections from **Klauke** using **Klauke** tools.

Assignment of cables and conductors

a) Copper

- Our copper cable lugs and connectors are suitable for connecting copper cables according to DIN EN 60228 and copper conductors DIN 48201 part 1. Please use the table below.

b) Aluminium

- Our aluminium cable lugs and connectors are suitable for connecting aluminium cables according to DIN EN 60228 and aluminium conductors according to DIN EN 50182. Please use the table below.

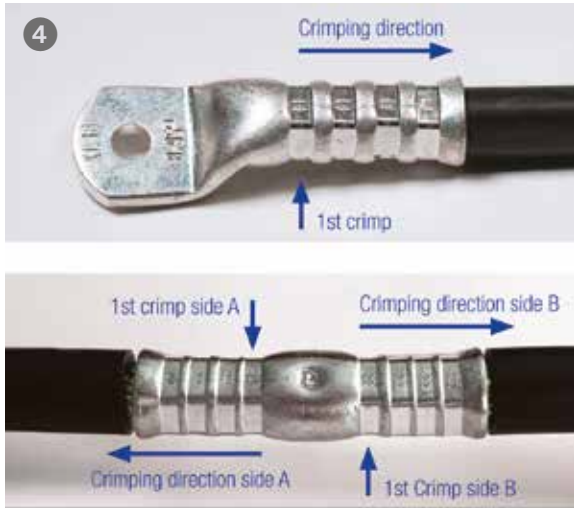


Sector-shaped conductors must be rounded with pre-rounding tools before assembly.

Cross-section compatibility chart for cable lugs and connectors for copper and aluminum conductors

- With the help of this table you can determine the cross-section of your conductor in case of doubt. The minimum diameter of the conductor is for the classes 1 and 2 (not compacted). For classes 5 and 6 are defined by the conductance rather than the minimum diameter. Therefore, no specification can be made regarding the minimum diameter.

Nominal cross-section mm ²	Type of conductor acc. to DIN EN 60228 / IEC 60228									
	Copper conductors					Aluminium conductors				
	Round conductor solid, class 1	Round conductor multi-stranded, class 2	Round conductor multi-stranded compacted, class 2		Round conductor fine and superfine, class 5 and class 6	Round conductor solid, class 1		Round conductor multi-stranded compacted, class 2		
	Max. conductor dia. mm	Max. conductor dia. mm	Min. conductor dia. mm	Max. conductor dia. mm	Max. conductor dia. mm	Min. conductor dia. mm	Max. conductor dia. mm	Min. conductor dia. mm	Max. conductor dia. mm	
0.5	0.9	1.1	–	–	1.1	–	–	–	–	
0.75	1	1.2	–	–	1.3	–	–	–	–	
1	1.2	1.4	–	–	1.5	–	–	–	–	
1.5	1.5	1.7	–	–	1.8	–	–	–	–	
2.5	1.9	2.2	–	–	2.4	–	–	–	–	
4	2.4	2.7	–	–	3	–	–	–	–	
6	2.9	3.3	–	–	3.9	–	–	–	–	
10	3.7	4.2	3.6	4	5.1	3.4	3.7	3.6	4	
16	4.6	5.3	4.6	5.2	6.3	4.1	4.6	4.6	5.2	
25	5.7	6.6	5.6	6.5	7.8	5.2	5.7	5.6	6.5	
35	6.7	7.9	6.6	7.5	9.2	6.1	6.7	6.6	7.5	
50	7.8	9.1	7.7	8.6	11	7.2	7.8	7.7	8.6	
70	9.4	11	9.3	10.2	13.1	8.7	9.4	9.3	10.2	
95	11	12.9	11	12	15.1	10.3	11	11	12	
120	12.4	14.5	12.3	13.5	17	11.6	12.4	12.3	13.5	
150	13.8	16.2	13.7	15	19	12.9	13.8	13.7	15	
185	15.4	18	15.3	16.8	21	14.5	15.4	15.3	16.8	
240	17.6	20.6	17.6	19.2	24	16.7	17.6	17.6	19.2	
300	19.8	23.1	19.7	21.6	27	18.8	19.8	19.7	21.6	
400	22.2	26.1	22.3	24.6	31	21.2	22.2	22.3	24.6	
500	–	29.2	25.3	27.6	35	24	25.1	25.3	27.6	
630	–	33.2	28.7	32.5	39	27.3	28.4	28.7	32.5	
800	–	37.6	–	–	–	30.9	32.1	–	–	
1000	–	42.2	–	–	–	34.8	36	–	–	



Assembly instructions for cable lugs and connectors

- 1 Strip conductor in line with insertion depth (+ 10 % because of length change of crimp sleeve).
- 2 The conductor ends must be cleaned mechanically prior to assembly.
- 3 Insert conductor fully into cable lug or connector.
- 4 Observing the crimping direction, crimp the cable lug or connector using the appropriate tools. The crimping direction for cable lug and connector is indicated in the diagram opposite.
- 5 Remove excess compound emerging from aluminum cable lugs and connectors.

We recommend the following number of crimps for individual cross sections:

Cross-section in mm ²	Tubular cable lugs			Cable lugs DIN 46235		Al-Cable lugs		
	5 mm Crimping die	width Crimping dies (quad-point indent crimping **)	EKM60ID	5 mm Crimping die	width Crimping dies	7 mm Crimping die	width Crimping dies	EKM60ID
6****	1			2				
10****	1		1	2				
16****	1	1	1	2	1	4	2	
25	2	1	1	2	1	4	2	
35	2	1	1	2	1	5	2	
50	2	1	1	3	1	5	2	2
70	2	1	1	3	1	6	3	3
95	2	1	1	4	2	6	3	3
120	2	1	1	4	2	6	3	3
150	2	1	1	4	2	6	3	3
185	2	1*	1	4	2	6	3	3
240	4	2	2	5	2	8	3	3
300	4	2		5	2	8	3	
400	5	2			3		4	
500					3		4	
625					3			
800					3			
1000					4 (20 mm) 2 (40 mm)***			

* when using quad-point indent crimping (HK60VP, EK60VP/FT etc.) Number of crimping operations: 2

** Note the cross section of the tool !

*** Crimp with crimping dies of Series 100

**** When using crimping dies of the series 50, 2 crimps are required !



When crimping F-series cable lugs and solderless terminals according to DIN 46234 by using indent crimping dies, for each cross section only one crimp is necessary.

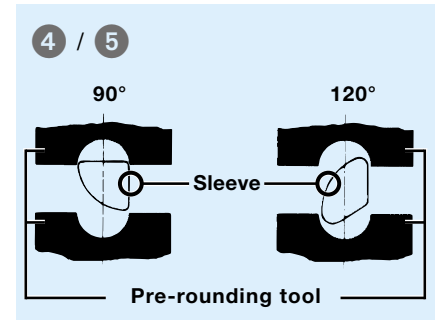
Assembly instructions for sleeves for type VHR and VHD compacted conductors

We recommend the use of additional VHR and VHD sleeves for compacted round conductors to ensure that the tubular cable lugs and connectors fit accurately.

For sector-shaped conductors, we recommend the use of additional sector sleeves VHR 3 or VHR 4 and VHD 3 or VHD 4 with Cu cable lugs and connectors to prevent the conductor recoil. Sleeves need to be rounded with pre-rounding tools.

Please note:

- 1 Ensure that the conductor is deformed as little as possible when cutting to length.
- 2 Strip the conductor insulation in line with the insertion length.
- 3 Slip the sleeve up to the front cut edge of the conductor.
- 4 Place the conductor and sleeve in the pre-rounding tool as per the diagram.
- 5 Crimp the sleeve
 - a) Crimping operation as per the diagram (1st pre-crimp)
 - b) Crimp turned through 90° (2nd pre-crimp)
 - c) Crimp turned through 30° (finish-crimp)
 - d) Crimp turned through 30° as required (finish-crimp)



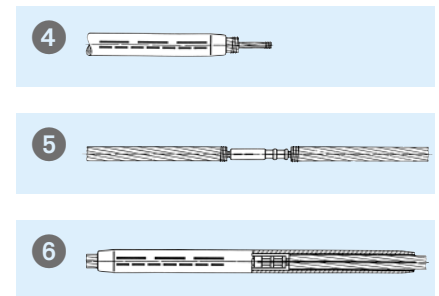
Instructions for fitting reduction sleeves

Only wide hydraulic crimping dies to be used when crimping more than two cross-sections.

Assembly instructions for full tension Al/steel connectors to DIN 48085, part 3

The connectors consist of an Al sleeve (E-Al 99.5) and a soft steel sleeve (St 52).

- 1 Straighten cable ends, remove dirt and any oxide layer.
- 2 Slip the Al-compression joint onto one of the cable ends.
- 3 Tie off the cable end and strip the Al cores.
- 4 Tie off Al and steel cores.
- 5 Slip on the steel sleeve and crimp through according to the crimping marks.
- 6 Slide the Al sleeve centrally over the crimped steel sleeve and crimp according to the crimping marks



Caution: Do not crimp in the centre, in the area of the steel connector. Do not crimp in the area of the cones.

- 7 Remove excess compound after crimping the connector.



Warning: The compound must not be removed, either fully or partially, prior to assembly.

The tool dies can be assigned either by colour-coding, or preferably based on the code assigned to the cross-section. The dies for the steel sleeve have a black finish, those for the Al sleeve are zinc-coated.

General information:

The crimping process has to be continued until the dies are completely closed, otherwise a proper crimp cannot be guaranteed.



General notes

Crimping dies:

The crimping dies of the series 18 as well as the series 25 correspond in the external dimensions of DIN 48083 part 1 or part 3. For all interchangeable dies, for mechanical tools as well as hydraulic tools, the series D (= for DIN cable lugs and connectors 46235 and 46267) and the series A (aluminium cable lugs and connectors as well as aluminium/copper cable lugs and connectors) the hexagonal dimensions are of DIN 48083 part 4.

Surfaces:

All mentioned dies are supplied "chrome-yellow" or „blue coated“ for copper and "galvanized" for aluminum and nickel.

Testing of our copper and aluminium connecting material was carried out with the following maximum torque on the connecting bolt.

Size of thread	Tightening torque (Nm)	Size of thread	Torque (Nm)
M 5	5	M 12	75
M 6	9	M 14	120
M 7	15	M 16	190
M 8	22	M 20	380
M 10	44		

Assembly instruction for screw connectors

Because they are detachable connecting elements, screw connectors are used preferably for heat-shrunk or cast resin joints. However, they also can be used in all other types of cable joints. Four-screw connectors are especially suitable for multi-stranded conductors, since the longer connector length increases the transverse conductance of the individual wires and the contact resistance decreases accordingly. In addition, higher pull-out values are achieved. Barrier type four-screw connector clamps are suitable for cables with mass-impregnated paper insulation.

In an electrolyte-free, e.g. dry environment, aluminum as well as copper conductors can be combined. This also applies in combination with heat-shrunk hoses. If conductors of different materials (e.g. Cu and Al cables) have to be connected, a barrier type connector is recommended.

While identical types of cables (e.g. NAYY-NAVY) can be used with non-barrier types of connectors for unequal cables (e.g. NAYY-NAKBA), plastic or earth cables, the use of connectors with barrier as an oil stop is recommended.

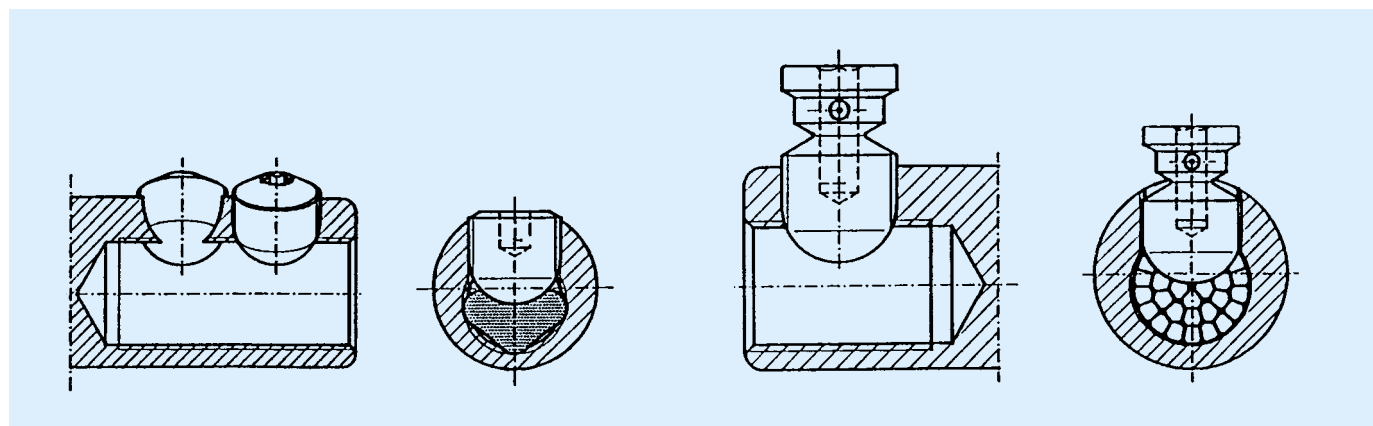
Insertion depth of conductors is controlled either by the conductor stop at the barrier, or by inspection hole on screw connectors without barrier.

In addition to the conventional screw connectors, we offer screw connectors with shear-off heads. The benefit of this design is the defined tightening torque, which is pre-determined by the maximum transferable torque at the rated breaking point. This contact force defined by the manufacturer guarantee optimum electrical and mechanical properties (DIN EN 61238). No torque wrenches are required for assembly of this connector type.

With standard screw connectors, the required contact pressures are reached at approx. 80 % of the specified torque. Over-crimping beyond the torque specified for the connector must be avoided.

The cross-grooves on the conductor channels allow high tensile forces to be transmitted. The tensile forces of our screw connectors correspond to compression joints to DIN 46267, part 2, with identical cross section.

The screws are treated with a high-gliding, molybdenum sulphide-based lubricant. This guarantees adequate contact pressure with a relatively low tightening torque.



Check-list for custom made cable lugs and connectors

Customer / Company:

Address:

Contact person:

Customer No.:

E-Mail:

Tel.:

Technical data

Type of conductor*:

Cross-section (cable)*:

Application / Use*:

Crimping tool*:

Similar Klauke item*:

Commercial Data

Batch size / Annual requirement*: einmalig

Partial shipments*: 1 2 3

Additional agreements:

Cable lugs und Verbinder

Material*: Cu Al Ni V4A V2A

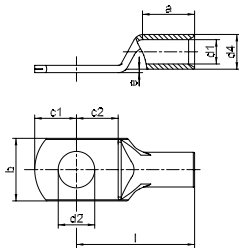
Other:

Surface*: tin-plated bright nickel-plated

Other:

* Required fields

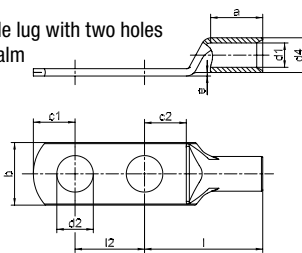
Cable lug



Dimension d4
 Dimension d1
 Dimension d2
 Dimension a
 Dimension l
 Dimension b
 Dimension c1
 Dimension c2
 Dimension e

Inspection hole Yes No

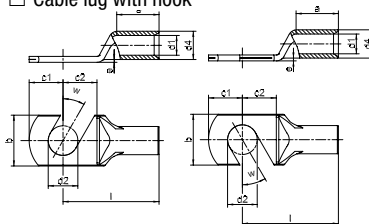
Cable lug with two holes in palm



Dimension d4
 Dimension d1
 Dimension d2
 Dimension a
 Dimension l
 Dimension b
 Dimension c1
 Dimension c2
 Dimension e

Inspection hole Yes No

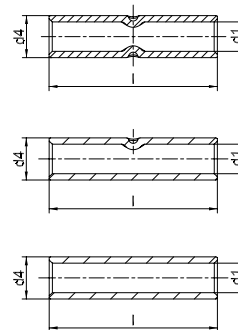
Cable lug with hook



Dimension d4
 Dimension d1
 Dimension d2
 Dimension a
 Dimension l
 Dimension b
 Dimension c1
 Dimension c2
 Dimension e
 Angle wh

Inspection hole Yes No

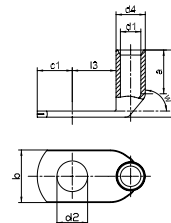
Connector



Dimension d4
 Dimension d1
 Dimension l

Number of butt marks: 0 / 1 / 2

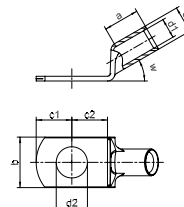
Angle cable lug from 30° to 90°



Dimension d4
 Dimension d1
 Dimension d2
 Dimension a
 Dimension x1
 Dimension b
 Dimension c1
 Dimension l3
 Angle w1

Inspection hole Yes No

Angle cable lug up to 30°



Dimension d4
 Dimension d1
 Dimension d2
 Dimension a
 Dimension b
 Dimension c1
 Dimension c2
 Angle wh
 Angle w1

Inspection hole Yes No

Other types acc. to your sketches/remarks (extra sheet):

Dimensions: Please fill in all requested dimensions and data completely. If no information is given, an optimal dimension for production will be chosen. It is also possible to enter additional dimensions.

Date:

Signature (customer):



Check-list for custom made crimping dies

Customer / company:

Address:

Contact person:

Customer No.:

E-Mail:

Tel.:

Technical data

Type of conductor*:

Cross-section*:

Material*:

Application / use*:

Available crimping tool*:

Similar Klauke item:

Commercial data

Batch size / Annual requirement*: one-off

Partial shipments*: 1 2 3

Additional agreements:

* Required items

Characteristics crimping dies

Series

- | | | |
|-------------------------------|-------------------------------|--------------------------------|
| <input type="checkbox"/> K 4 | <input type="checkbox"/> K 5 | <input type="checkbox"/> K 18 |
| <input type="checkbox"/> K 22 | <input type="checkbox"/> K 13 | <input type="checkbox"/> K 25 |
| <input type="checkbox"/> K 45 | <input type="checkbox"/> K 50 | <input type="checkbox"/> K 100 |















Other:

Attached

- | | | |
|----------|------------------------------|-----------------------------|
| Sketch: | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Drawing: | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Sample: | <input type="checkbox"/> yes | <input type="checkbox"/> no |

Other:

Crimping profile

- | | | |
|--|---|--|
| <input type="checkbox"/> Hexagonal crimping
 | <input type="checkbox"/> Round crimping
 | <input type="checkbox"/> Double indent crimping
 |
| <input type="checkbox"/> Gas-tight oval crimping
 | <input type="checkbox"/> Roll crimping
 | <input type="checkbox"/> Indent crimping
 |
| <input type="checkbox"/> Special trapezoid crimping
 | <input type="checkbox"/> Square crimping
 | <input type="checkbox"/> Oval crimping
 |
| <input type="checkbox"/> Pour point crimping
 | <input type="checkbox"/> Trapezoid crimping
 | <input type="checkbox"/> Indent crimping
 |
| <input type="checkbox"/> Quad-point indent crimping
 | <input type="checkbox"/> Indent crimping (cable end-sleeves)
 | |

Other:

Dimensions: Please fill in all data! If no information is available, the general Klauke dimensions apply.

Date:

Signature (customer):

Assignment of conductor cross sections (AWG or MCM sizes to mm²)

AWG	Metric conductor cross-section mm ²	Comparable conductor cross-section mm ²	MCM	Metric conductor cross-section mm ²	Comparable conductor cross-section mm ²
27	0.102	–	250	127	120
26	0.128	0.14	300	152	150
25	0.163	–	350	177	185
24	0.205	0.2	400	203	–
23	0.259	0.25	500	253	240
22	0.325	0.34	600	304	300
21	0.412	–	700	355	–
20	0.519	0.5	800	405	400
19	0.653	–	900	456	–
18	0.823	0.75	1000	507	500
17	1.04	1	1250	633	625
16	1.31	–	1500	760	800
15	1.65	1.5	1750	887	–
14	2.08	–	2000	1010	1000
13	2.63	2.5			
12	3.31	–			
11	4.15	4			
10	5.27	6			
9	6.62	–			
8	8.35	–			
7	10.6	10			
6	13.3	–			
5	16.8	16			
4	21.2	–			
3	26.7	25			
2	33.6	35			
1	42.4	–			
1/0	53.4	50			
2/0	67.5	70			
3/0	85	95			
4/0	107.2	120			

British and American units of measurement

Length units		Area units		Volume units		Fluid volume units		Weight	
1 mil	0.0254 mm	1 sq. in.	645.1 mm ²	1 cu. in.	16.386 cm ³	1 pint	0.568 l	1 grain	0.059 g
1 inch (Zoll)	25.4 mm	1 sq. ft.	0.093 m ²	1 cu. Ft.	0.028 m ³	1 quart	1.136 l	1 ounce	28.349 g
1 foot	0.3048 m	1 sq. yd.	0.836 m ²	1 cu. Yd.	0.764 m ³	1 engl. gallon	4.554 l	1 pound (lb)	0.454 kg
1 yard	0.9140 m					1 am gallon	3.785 l	1 engl. ton	1.016 t
1 mile	1.6090 km					1 quarter	290.790 l	1 am. ton	0.907 t
						1 bushel	36.350 l		



Cable pulling technology – Typical applications

Type	Tape dia.	Pipe dia.	Thrust	Min. curve radius	Breaking strength	Tensile force with start/end sleeve	Recommended length
	mm	mm	kg	mm	kg	kg	m
Fibreglass							
Speedy Spinner	3	16 - 32	+++	160	400	110	20-30
	4,5	40 - 60	+++	310	1200	>200	40-80
	6	50 - 80	+++	400	2000	>300	40-110
Smart Butler	7,5	63 - 100	+++	500	3000	>400	40-120
	9	63 - 125	+++	620	4500	>500	40-150
	11	63 - 150	+++	770	7500	>700	150-300
Polyester							
Dura Spinner	3	16 - 40	+++	50	300	100	20-30
Polyester Butler	6	40 - 60	+++	160	600	300	50
Nylon, Perlon®							
	4	16 - 25	+	80	280	120	10-20
Steel							
	4	16 - 25	+	100	900	115	10-20

for trade for industry

Metric cable glands for electrical installation EN 50262

The new European standard EN 50262 defines conditions for all manufacturers of electrical appliance housings and all electrical installation.

It's scope includes cables and conductors for control cabinets, distributor housings, junction boxes, domestic connections, installation boxes, equipment housings etc.

EN 50262 replaces the Pg thread (steel tank pipe thread) used for all housing designs for decades with a metric thread. Sizes Pg 7 to Pg 48 are being replaced by ISO M 6 to M75.







Greenlee holemaking tools in ISO sizes acc. to EN 50262

ISO sizes	mm	Slug-Buster® punch	Slug-Splitter® punch	HSS hole saws	Step bits
12	12.5	✓			
16	16.5	✓	✓		✓
20	20.5	✓	✓	✓	✓
25	25.5	✓	✓	✓	✓
32	32.5	✓	✓		✓
40	40.5	✓	✓		✓
50	50.5	✓	✓	✓	
63	63.5	✓	✓	✓	

Holemaking systems

Round punch	Operation	Capacity	Hole size
Slug-Buster®	Manual, Hydraulic punches	max. 3.0 mm in St 37	12.5 to 64.0 mm
Slug-Splitter®	Hydraulic punches	max. 3.5 mm in V2A	15.2 to 64.0 mm
Speed Punch™	Hydraulic punches	3.5 mm in St 37	16.2 to 64.0 mm
Standard	Manual, Hydraulic punches	max. 3.0 mm in St 37	66.7 to 144.1 mm
Special shaped punches	Operation	Capacity	Hole size
Special shaped punches	Manual, Hydraulic punches	max. 3.0 mm in St 37 bzw. 1.5 mm in V2A	See data for the individual punches

Hydraulic punches

			Description
	LS 50 FLEX Battery powered hydraulic punching tool	LS 50 FLEX	- with micro-processor control - 60 kN punching force - punches up to 3.0 mm St 37 and up to 3.5 mm V2A, depending on hole size
	Hydraulic punch Quick Draw™ 7804E	50342916	- ideal for fast, frontal punching - 80 kN punching force - punches up to 3.0 mm St 37 and up to 3.5 mm V2A, depending on hole size
	Hydraulic punch Quick Draw 90™ 7904E	50342991	- rectangular cylinder head rotatable around 180° - maximum flexibility in narrow working spaces - 80 kN punching force - punches up to 3.0 mm St 37 and up to 3.5 mm V2A, depending on hole size
	Hydraulic punch with hand pump	52084920	- compact design of punch, pump and cylinder - 110 kN punching force - punches up to 3.5 mm St 37 and up to 3.5 mm V2A, depending on hole size
	Hydraulic punch with foot pump	52084941	- foot pump leaves both hands free for operating the punch - 110 kN punching force - punches up to 3.5 mm St 37 and up to 3.5 mm V2A, depending on hole size
	Hand hydraulic punch Flex Draw	52033843	- rectangular cylinder head rotatable around 180° - maximum flexibility in narrow working spaces - 80 kN punching force - punches up to 3.0 mm St 37 and up to 3.5 mm V2A, depending on hole size



Standards for cabling

A number of standardisation committees that define the technical features of cabling systems have been in existence since 1993. These directives must be observed when planning and setting up networks.

Full volumes can be obtained from specialist bookshops.

International standards

International Standards are published by the ISO (International Standards Organisation). In Europe these international directives are used for information purposes.

ISO/IEC IS 11801	Description of the performance requirements for a general cabling system	IEC 1156-1	Basic specification
IEC 1156	Multi-core and symmetrical conductors for digital message transmission	IEC 1156-2	Framework specification for service cables IEC1156-3 Framework specification for patch and equipment connecting cables
		IEC 1156-4	Framework specification for building connecting and rising cables

European standards

In collaboration with national standard institutes, the European Committee for Electrical Standardisation CENELEC (Comite Europeen de Normalisation Electrotechnique) has published European standards that are based on the international ISO/IEC 11801 and hence normative for Europe.

EN 50173	Description of the performance requirements for a general cabling system (EN 50173 also refers to HD 608 and also EN 55022)	EN 50168	Framework specification for patch and equipment connecting cables
608	General specification for symmetrical conductors for digital message transmission	EN 50169	Framework specification for building connection and rising cables
EN 50167	Framework specification for service cables	EN 55022	Framework specification for electromagnetic compatibility (EMC). This specification contains threshold values and measuring procedures for radio interference of data processing equipment.

American standards

The American standards are published by the EINTIA (Electronic Industries Association / Telecommunication Industries Association) an American Joint Venture.

TSB 36	Framework specification for symmetrical data cables (100 Ohm, unsheathed)	EIA/TIA 568	Framework specification for cabling systems
TSB 40	Framework specification for passive components (100 Ohm, unsheathed)		



Keyword	Page
A	
Accessories for hydraulic tools	483
Accessory, cable pulling technology	549
Aluminium compression cable lugs acc. to DIN 46329 and similar versions	94
Aluminium compression cable lugs and connectors acc. to DIN	92
Aluminium compression cable lugs and connectors for Al/St cables DIN EN 50182	102
Aluminium compression joints acc. to DIN 46267 part 2 and similar versions	97
Aluminium compression joints, full tension	101
Aluminium reduction compression joints	99
Aluminium/copper compression cable lugs	108
Aluminium/copper compression cable lugs and connectors	106
Aluminium/copper compression joints	111
Angled compression cable lugs	58
Angled tubular cable lugs	17
Assortment boxes with cable end-sleeves	183
Assortment boxes with insulated cable-end sleeves	184
Assortment boxes with insulated terminals	189
Assortment boxes with tubular and compression cable lugs	187
Assortments and sets, hand tools	512
Assortments connection systems	176
B	
Basic tools	517
Battery powered crimping tool	246
Battery powered crimping tool, 10.8 V - base	247
Battery powered crimping tool, 18 V - base	252
Battery powered cutting tools	354
Battery powered cutting tools, 10.8 V - base	355
Battery powered cutting tools, 18 V - base	360
Battery powered punching tool LS 100 FLEX	436
Battery powered punching tool LS 50 FLEX	435
Battery powered universal tools	467
Bi-metallic washer	114
Bits and step bits	456
Bits, holders and adapters	510
Bus bar tool centre	471
C	
C- and H-type branch clamps - copper	121
Cable connections, insulated and non insulated	152
Cable end-sleeves	134
Cable end-sleeves DIN 46228, part 1 and part 2	136
Cable puller with accessory	545
Cable pulling systems	538
Cable pulling systems with fibreglass tapes (Speedy Spinner)	539
Cable pulling systems with Polyester tapes (Dura Spinner and Flexi Spinner)	538
Clamps and screw connectors	116
Compact tab connectors, high resistant aluminium alloy	129
Compression cable lugs acc. to DIN 46235	56
Compression cable lugs, special type	62
Compression joints acc. to DIN 46267, part 1 and similar versions	64
Connectors	21
Copper compression cable lugs and connectors acc. to DIN	54
Copper terminals, connectors and pin terminals acc. to DIN	72
Copper tubular cable lugs and connectors	10
Crimping dies	310
Crimping dies, Series 100	343
Crimping dies, Series 13	333

Keyword	Page
Crimping dies, Series 15	338
Crimping dies, Series 18	323
Crimping dies, Series 22	327
Crimping dies, Series 25	339
Crimping dies, Series 4	314
Crimping dies, Series 45	342
Crimping dies, Series 5	319
Crimping dies, Series 50	312
Cutting dies	392
Din rail cutting tools	391
E	
Easy Roller (cable drum unwinder), Easy Roller Plus	544
Electromechanical crimping tool	243
Electronic / precision mechanic's tools	509
F	
Fibreglass cable pulling rods	537
Fish tapes in winder case	540
Fish tapes, Nylon	536
Fish tapes, Perlon	536
Fish tapes, Polyester	536
Fish tapes, Steel	537
Fish tapes/pulling rods	536
Flexible connectors	170
Flex-O-Twist speed flex leader	537
H	
Hand-operated hydraulic crimping tools	279
Hand-operated hydraulic cutting tools	380
Hand-operated hydraulic universal tool, hydraulic universal head	465
Hole saws	448
HSS bi-metal hole saws	450
Hydraulic crimping heads	294
Hydraulic crimping heads and crimping systems	293
Hydraulic crimping systems	308
Hydraulic cutting heads	381
Hydraulic cutting heads and cutting systems	383
Hydraulic cutting systems	389
Hydraulic pumps	477
I	
Insulated cable end-sleeves for short circuit resistant conductors	144
Insulated cable end-sleeves acc. to DIN 46228, part 4 and similar versions	139
Insulated cable end-sleeves, strips and tapes	146
Insulated solderless terminals	76
Insulated solderless terminals for meter connections	80
Insulated terminals	154
Insulated tubular cable lugs und connectors	25
Insulated twin cable end-sleeves	145
K	
KWSET keyway punch	432
L	
L-BOXEs	196
M	
Measuring and marking	515

Keyword	Page
Mechanical and hydraulic punching tools	432
Mechanical crimping tools	208
Mechanical crimping tools with interchangeable dies	234
Mechanical cutting tools	346
N	
Non insulated flat connectors	165
P	
Parallel groove clamps - copper	120
Pocket boxes with cable end-sleeves	178
Pocket boxes with insulated cable end-sleeves	179
Pulling grips	547
Pulling grips, closed	547
Pulling grips, open	548
Pumps	476
Punched cable lugs - copper	118
Punching tools and sets	430
R	
Round and special shape punches	412
S	
Safety cutting tools	406
Screw connector for shielded copper wires	123
Screw connectors for street lighting - brass	123
Screw connectors with soldering hole - brass	119
Screw connectors, high-resistant aluminium alloy	124
Sleeves for compacted conductors and sector-shaped conductors - copper	86
Slug Buster® punching tools and sets	443
Slug-Buster® punch sets	438
Slug-Buster® punch systems	416
Slug-Splitter® punch sets	442
Slug-Splitter® punch system for stainless steel	417
Smart Butler, Polyester Butler	542
Solderless connectors acc. to DIN 46341, part 1	80
Solderless terminals acc. to DIN 46234	74
Solderless terminals, fork and pin type	78
Special cutting tools	390
Special shape punches	421
Speed Punch® punch system	418
Speed Punch™ punch sets	440
Standard punch systems	414
Steel carrying cases / bags	191
Stripping tools	528
Stripping tools for communication technology	530
T	
Tool cases, hand tools	520
Tubular cable lugs	12
Tubular cable lugs and connectors - nickel	50
Tubular cable lugs and connectors - nickel, stainless steel	46
Tubular cable lugs and connectors - stainless steel	48
Tubular cable lugs and connectors for fine stranded conductors	33
Tubular cable lugs and connectors for solid conductors	30
Tubular cable lugs and connectors, blue connection®	28
Tubular cable lugs for switchgear connections	16

Keyword	Page
V	
VDE tools	494
VDE tools, Assortments and sets	503
VDE tools, Pliers	496
VDE tools, Screwdrivers	500
VDE tools, Standard tools and accessory	507
VDE-battery powered crimping and cutting tools Orange	396
VDE-battery powered crimping tools Orange	398
VDE-battery powered cutting tools Orange	401
W	
Water pump pliers, fitting pliers	508
Wire stripping tools	524
Wiring duct cutter	392



Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
101R5	56	110R12	57	132R	64	1620C3	78
101R6	56	110R14	57	133R	64	1620C35	78
101R8	56	110R16	57	134R	64	1620C4	78
1020	157	110R20	57	135R	64	1620C5	78
1020V	158	111R10	57	136DP12	63	1620C6	78
102R5	56	111R12	57	136DP212	63	1620K	80
102R6	56	111R14	57	136R	64	1620L	81
102R8	56	111R16	57	137DP12	63	162R	22
1030	157	111R20	57	137DP212	63	162R5	58
1030V	158	112R12	57	137R	64	162R545	60
103R10	56	112R14	57	138DP12	63	162R6	58
103R12	56	112R16	57	138DP212	63	162R645	60
103R6	56	112R20	57	138R	64	162R8	58
103R8	56	1130	162	139DP12	63	162R845	60
104R10	56	113R12	57	139DP212	63	163010	74
104R12	56	113R14	57	13R12	15	163012	74
104R6	56	113R16	57	13R14	15	16303	74
104R8	56	113R20	57	13R16	15	163035	74
1050	157	114R14	57	13R20	15	16304	74
1050V	158	114R16	57	13SG10	16	16305	74
105R10	56	114R20	57	13SG12	16	16306	74
105R12	56	1150	162	13SG16	16	16308	74
105R14	56	115R16	57	147D212	62	1630C3	78
105R6	56	115R20	57	148D212	62	1630C35	78
105R8	56	116R16	57	148R	22	1630C4	78
106R10	57	116R20	57	149D212	62	1630C5	78
106R12	57	117R16	57	149R	22	1630C6	78
106R14	57	117R20	57	14R12	15	1630K	80
106R16	57	118R16	57	14R14	15	1630L	81
106R8	57	118R20	57	14R16	15	163R	22
107R10	57	11R10	15	14R20	15	163R10	58
107R12	57	11R12	15	150B	29	163R1045	60
107R14	57	11R14	15	150B10	29	163R12	58
107R16	57	11R16	15	150B12	29	163R1245	60
107R8	57	11R20	15	150D212	62	163R6	58
108R10	57	11SG10	16	150R	22	163R645	60
108R12	57	11SG12	16	151D212	62	163R8	58
108R14	57	11SG16	16	151R	22	163R845	60
108R16	57	120B	29	152D212	62	164R10	58
108R8	57	120B10	29	152R	22	164R1045	60
109R10	57	120B12	29	153R	22	164R12	58
109R12	57	120B16	29	154R	22	164R1245	60
109R14	57	121R	64	155R	22	164R6	58
109R16	57	122R	64	156R	22	164R645	60
109R20	57	123R	64	157R	22	164R8	58
10B	29	124R	64	158R	22	164R845	60
10B10	28	125R	64	159R	22	165010	74
10B5	28	126R	64	160R	22	165012	74
10B6	28	127R	64	161R	22	16504	74
10B8	28	128R	64	161R5	58	16505	74
10R10	15	129R	64	161R545	60	16506	74
10R12	15	12R10	15	161R6	58	16508	74
10R14	15	12R12	15	161R645	60	1650C4	78
10R16	15	12R14	15	162010	74	1650C5	78
10R20	15	12R16	15	162025	74	1650C6	78
10R8	15	12R20	15	16203	74	1650C8	78
10SG10	16	12SG10	16	162035	74	1650K	80
10SG12	16	12SG12	16	16204	74	1650L	81
10SG6	16	12SG16	16	16205	74	165210	74
10SG8	16	130R	64	16206	74	165212	74
110R10	57	131R	64	16208	74	16525	74

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16526	74	165R845	60	169R1645	61	17318	142
16528	74	166010	75	169R20	59	1738	142
1652C5	78	166012	75	169R2045	61	173B	141
1652C6	78	166016	75	16B	29	173BH	141
1652K	80	1660K	80	16B10	28	173BL	141
1652L	81	1660L	81	16B12	28	17410	142
165310	74	166112	75	16B6	28	17412	142
165312	74	166116	75	16B8	28	17418	142
16535	74	166212	75	1706	142	174GR	141
16536	74	166216	75	1708	142	174GRH	141
16538	74	1666	142	170R10	59	174GRL	141
1653C6	78	1668	142	170R1045	61	1750	165
1653K	80	166GR	140	170R12	59	17512	142
1653L	81	166GRL	140	170R1245	61	17518	142
165410	75	166R10	58	170R14	59	175S	141
165412	75	166R1045	60	170R1445	61	175SL	141
165416	75	166R12	58	170R16	59	17612	143
16545	75	166R1245	60	170R1645	61	17618	143
16546	75	166R14	58	170R20	59	176E	141
16548	75	166R1445	60	170R2045	61	176EL	141
1654K	80	166R16	58	170W	141	17712	143
1654L	81	166R1645	60	170WH	141	17718	143
165510	75	166R8	58	170WK	141	177GR	141
165512	75	166R845	60	170WL	141	177GRL	141
165516	75	1676	142	1716	142	17816	143
16556	75	1678	142	1718	142	17818	143
16558	75	167H	140	171G	141	17822	143
1655K	80	167HL	140	171GH	141	178BR	141
1655L	81	167R10	59	171GK	141	178BRL	141
165610	75	167R1045	61	171GL	141	179B	141
165612	75	167R12	59	171R10	59	179BL	141
165616	75	167R1245	61	171R1045	61	17R	21
16566	75	167R14	59	171R12	59	1800	141
16568	75	167R16	59	171R1245	61	1800L	141
1656K	80	167R1645	61	171R14	59	181R	67
1656L	81	167R8	59	171R1445	61	18201A	165
165710	75	167R845	61	171R16	59	18202	165
165712	75	1686	142	171R1645	61	18203	165
165716	75	1688	142	171R20	59	18203AZ	165
16576	75	168R10	59	171R2045	61	18251	165
16578	75	168R1045	61	1720	165	18251A	165
1657K	80	168R12	59	17210	142	182R	67
1657L	81	168R1245	61	17212	142	1830	167
165810	75	168R14	59	17218	142	18303	165
165812	75	168R1445	61	1726	142	18303AZ	165
165816	75	168R16	59	1728	142	183R	67
16588	75	168R1645	61	172R12	59	184R	67
1658K	80	168T	140	172R1245	61	185B	29
1658L	81	168TL	140	172R14	59	185B10	29
165910	75	1696	142	172R1445	61	185B12	29
165912	75	1698	142	172R16	59	185B16	29
165916	75	1690	140	172R1645	61	185R	67
16598	75	1690H	140	172R20	59	186R	67
1659K	80	1690K	140	172RH	141	187R	67
1659L	81	169R10	59	172RK	141	188R	67
165R10	58	169R1045	61	172RL	141	189R	67
165R1045	60	169R12	59	172RM	141	18R	21
165R12	58	169R1245	61	172RO	141	190R	67
165R1245	60	169R14	59	1730	165	191R	67
165R14	58	169R1445	61	1730AZ	165	192R	67
165R8	58	169R16	59	17312	142	193R	67



Technical Appendix

Alphanumerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
19R	21	224R	97	271R10	95	303R10	109
1R10	14	2250	167	271R12	95	303R8	109
1R12	14	225R	97	271R16	95	304R10	109
1R5	14	226R	97	271R20	95	304R8	109
1R6	14	227R	97	2720	166	305R10	109
1R8	14	228R	97	272R10	95	305R12	109
2010	169	229R	97	272R12	95	306R10	109
2020	169	22R	21	272R16	95	306R12	109
2025	169	230R	97	272R20	95	307R10	109
202R6	96	231R	97	2730	166	307R12	110
202R8	96	232R	97	273R12	95	308R10	110
2030	169	233R	97	273R16	95	308R12	110
2035	169	234R	97	273R20	95	308R16	110
203R10	96	235R	97	274R12	95	309R12	110
203R8	96	23R	21	274R16	95	309R16	110
2040	168	240B	29	274R20	95	30R	21
2045	168	240B12	29	2750	166	310R12	110
204R10	96	240B16	29	2755	167	310R16	110
204R8	96	243R	101	275R12	95	311R12	110
205R10	96	244R	101	275R16	95	311R16	110
205R12	96	245R	101	275R20	95	311R20	110
2060	168	246R	101	2760	167	312R12	110
206R10	96	247R	101	2770	168	312R16	110
206R12	96	248R	101	2775	168	312R20	110
2070	168	249R	101	2780	168	313R16	110
2075	168	24R	21	2785	168	313R20	110
207R10	96	250R	101	2790	168	314R16	110
207R12	96	251R	101	27R	21	314R20	110
2080	168	252R	101	284R16	100	31R	21
2083	168	253R	101	285R25	100	322R10	111
208R10	96	25A13	339	286R25	100	322R16	111
208R12	96	25B	29	286R35	100	323R10	111
208R16	96	25B10	28	287R25	100	323R16	111
2090	168	25B12	28	287R35	100	324R10	111
209R12	96	25B6	28	287R50	100	324R16	111
209R16	96	25B8	28	288R25	100	324R25	111
20R	21	25R	21	288R35	100	324R35	111
2100	168	263R10	94	288R50	100	324R416	111
2105	168	263R8	94	288R70	100	324R50	111
210R12	96	264R10	94	289R70	100	325R16	111
210R16	96	264R12	94	289R95	100	325R25	111
2115	168	264R8	94	28R	21	325R35	111
211R12	96	265R10	94	290R120	100	325R50	111
211R16	96	265R12	94	290R70	100	325R616	111
211R20	96	265R8	94	290R95	100	325R625	111
2123	169	266R10	94	291R120	100	325R635	111
212R12	96	266R12	94	291R150	100	326R16	111
212R16	96	266R8	94	292R120	100	326R25	111
212R20	96	267R10	94	292R150	100	326R35	111
213R16	96	267R12	94	292R95	100	326R50	111
213R20	96	267R8	94	29R	21	327R120	112
2140	169	268R10	94	2R10	14	327R16	111
2145	169	268R12	94	2R12	14	327R25	112
214R16	96	268R16	94	2R5	14	327R35	112
214R20	96	269R10	94	2R6	14	327R50	112
21R	21	269R12	94	2R8	14	327R70	112
2220	167	269R16	94	300B	29	327R95	112
222R	97	26R	21	300B12	29	328R120	112
2230	167	270R10	94	300B16	29	328R16	112
2235	167	270R12	95	302R6	109	328R25	112
223R	97	270R16	95	302R8	109	328R35	112

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
328R50	112	366R8	108	41R5	17	44R12	17
328R70	112	367R10	108	41R545	19	44R1245	19
328R95	112	367R12	108	41R6	17	44R14	17
329R120	112	367R8	108	41R645	19	44R1445	19
329R35	112	368R10	108	41R8	17	44R5	17
329R50	112	368R12	108	41R845	19	44R545	19
329R70	112	368R16	108	420R	98	44R6	17
329R95	112	368R8	108	421R	98	44R645	19
32R	21	3698	143	422R	98	44R8	17
330R120	112	369R12	108	423R	98	44R845	19
330R150	112	369R16	108	424R	98	455R	102
330R16	112	369R8	108	425R25	99	456R	102
330R25	112	3708	143	426R35	99	457R	102
330R35	112	370R12	108	428R50	99	458R	102
330R50	112	370R16	108	428R70	99	459R	102
330R70	112	370R20	108	429R70	99	45R10	17
330R95	112	3718	143	429R95	99	45R1045	19
331R120	112	371R10	108	42R10	17	45R12	17
331R150	112	371R12	108	42R1045	19	45R1245	19
331R185	112	371R16	108	42R12	17	45R14	17
331R50	112	371R20	109	42R1245	19	45R16	17
331R70	112	3720	166	42R5	17	45R1645	19
331R95	112	3725	166	42R545	19	45R6	17
332R120	112	3728	143	42R6	17	45R645	19
332R150	112	372R10	109	42R645	19	45R8	17
332R185	112	372R12	109	42R8	17	45R845	19
332R240	112	372R16	109	42R845	19	46910	139
332R50	112	372R20	109	430R120	99	4696	139
332R70	112	3735	166	430R70	99	4698	139
332R95	112	3738	143	430R95	99	46R10	18
333R120	112	373R12	109	431R120	99	46R1045	20
333R150	112	373R16	109	431R150	99	46R12	18
333R185	112	373R20	109	431R70	99	46R1245	20
333R240	112	374R12	109	431R95	99	46R14	18
333R300	112	380/-	144	43210	144	46R16	18
33R	21	380/+	144	4328	144	46R1645	20
344R	113	380/0 bis 9	144	432R120	99	46R20	18
345R	113	380/A bis Z	144	432R150	99	46R6	18
346R	113	3R10	14	432R185	99	46R645	20
347R	113	3R12	14	43312	144	46R8	18
348R	113	3R5	14	4338	144	46R845	20
349R	113	3R6	14	433R150	99	47010	139
34R	21	3R8	14	433R185	99	47012	139
350R	113	405R	98	433R240	99	4706	139
351R	113	406R	98	43410	144	4708	139
352R	113	407R	98	434R300	99	47110	139
353R	113	408R	98	43512	144	47112	139
35B	29	409R	98	43612	144	4716	139
35B10	28	410R	98	43712	144	4718	139
35B12	28	411R	98	43R10	17	47210	139
35B8	28	412R	98	43R1045	19	47212	139
363R10	108	413R	98	43R12	17	47218	139
363R8	108	414R	98	43R1245	19	4726	139
364R10	108	416R	98	43R5	17	4728	139
364R12	108	417R	98	43R545	19	47312	139
364R8	108	418R	98	43R6	17	47318	139
365R10	108	419R	98	43R645	19	4738	139
365R12	108	41R10	17	43R8	17	47410	139
365R8	108	41R1045	19	43R845	19	47412	139
366R10	108	41R12	17	44R10	17	47418	139
366R12	108	41R1245	19	44R1045	19	47512	139



Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
47518	139	50008730	546	50115324	472	50253727	415
47612	139	50008749	546	50115332	472	50253832	415
47618	139	50016962	541	50115340	472	50254030	415
47712	140	50024086	414	50115359	472	50254278	415
47718	140	50024094	414	50115367	472	50254286	415
47816	140	50024337	414	50115375	472	50265342	432
47818	140	50031708	420	50115383	472	50273868	546
47822	140	50040405	419	50115391	472	50273884	546
47916	140	50041886	419	50115413	391	50292099SET	452
47918	140	50042181	419	50115472	438	50294512	420
47925	140	50052128	471	50115723	422	50294520	420
47R10	18	50052144	473	50121510	460	50305581	547
47R1045	20	50052152	473	50125630SET	452	50305603	547
47R12	18	50052160	473	50125630SET	453	50305620	547
47R1245	20	50052241	471	50125701	392	50305646	547
47R14	18	50052250	471	50132849	482	50305662	547
47R1445	20	50052276	472	50153323	546	50305689	547
47R16	18	50052284	472	50186353	415	50305700	547
47R1645	20	50052292	472	50188860	414	50305727	547
47R20	18	50052306	472	50188879	414	50305743	547
47R2045	20	50052314	472	50188909	415	50305760	547
47R6	18	50052322	472	50188917	415	50305786	547
47R645	20	50052330	472	50188925	415	50305808	547
47R8	18	50052349	472	50190946	546	50305824	547
47R845	20	50052357	472	50191314	450	50305840	547
48020	140	50052365	472	50191772	451	50305867	547
48025	140	50052373	472	50191780	451	50305883	547
48121	140	50052381	472	50191799	451	50305905	547
48225	140	50053043	428	50191802	451	50305921	547
48327	140	50053078	425	50191810	451	50305948	547
48432	140	50067273	416	50191829	451	50305964	547
48R10	18	50068920SET	445	50191837	451	50306588	548
48R1045	20	50069292	454	50191845	451	50306600	548
48R12	18	50069497SET	452	50199803	415	50306626	548
48R1245	20	50069519	417	50206672	414	50306642	548
48R14	18	50069527	417	50206680	414	50306669	548
48R16	18	50069535	417	50206702	414	50306685	548
48R1645	20	50069543	417	50206710	414	50307584	548
48R20	18	50069551	417	50206737	414	50308599	537
48R2045	20	50069560	417	50206761	415	50310100	547
48R8	18	50069578	417	50206788	415	50310127	547
48R845	20	50069586	417	50206796	415	50310143	547
49R10	18	50069594	417	50211153	414	50310240	548
49R1045	20	50069608	417	50212141	415	50310267	548
49R12	18	50069616	417	50212168	415	50310283	548
49R1245	20	50069624	417	50215191	415	50310305	548
49R14	18	50069632	417	50225634	414	50310321	548
49R1445	20	50069640	417	50225642	414	50313533	482
49R16	18	50069659	417	50225650	415	50314823	548
49R1645	20	50069667	417	50225669	415	50314831	548
49R20	18	50069691	454	50225677	415	50314840	548
49R8	18	50069845	459	50244760	414	50319620	416
49R845	20	50069853	459	50244779	415	50319639	416
4R10	14	50069861	459	50253417	414	50319647	416
4R12	14	50069870	459	50253425	414	50319655	416
4R14	14	50069888	459	50253441	414	50319663	416
4R5	14	50069900	460	50253492	415	50319892	416
4R6	14	50115286	472	50253506	415	50319906	416
4R8	14	50115294	472	50253514	415	50319914	416
50000420	419	50115308	472	50253603	415	50319930	416
50008722	546	50115316	472	50253611	415	50319957	416

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
50319965	416	50600567	421	510R	66	52055277	536
50319981	416	50600591	421	510RLD	66	52055278	536
50323989SET	446	50600621	421	511R	66	52055279	536
50328034SET	446	50600656	421	511RLD	66	52055280	536
50339672	420	50600680	421	512R	66	52055281	536
50341367	545	50600710	421	512RLD	66	52055283	537
50341375	545	50600745	421	51300430	420	52055285	537
50341383	545	50600770	424	513R	66	52055292	536
50342916	433	50600982	424	513RLD	66	52055293	536
50342991	433	50601016	425	514R	66	52055294	536
50343629	545	50601148	420	514RLD	66	52055295	536
50344200	426	50601156	428	51R10	18	52055296	536
50344293	426	50601172	428	51R1045	20	52055298	539
50344366	426	50601660	428	51R12	18	52055299	539
50344374	426	50601679	420	51R1245	20	52055300	539
50344447	426	50601687	422	51R14	18	52055313	542
50351770	416	50601717	422	51R1445	20	52055315	542
50351788	416	50601741	422	51R16	18	52055316	542
50351796	416	50601776	422	51R1645	20	52055320	544
50351800	416	50602349	422	51R20	18	52055321	544
50351818	416	50602381	423	51R2045	20	52055323	544
50351826	416	50602420	423	52020113	428	52055325	542
50351923	414	50602462	416	52033816	427	52055326	542
50356119SET	443	50610045	422	52033817	427	52055327	542
50356143SET	444	50610076	422	52033818	427	52055328	542
50356151SET	443	50610106	422	52033819	427	52055337	542
50356160SET	444	50610137	422	52033820	427	52055338	542
50356178SET	445	50610281	421	52033831	427	52055339	542
50357468	541	50610809	424	52033832	427	52055340	542
50360183	458	50610830	424	52033843	434	52055341	542
50361716	416	50610861	424	52034233	445	52055347	542
50365061	414	50610892	424	52041709	540	52055348	542
50365088	416	50610922	424	52041741	540	52055349	542
50366904	439	50610953	424	52041743	540	52055350	542
50366912	440	50611257	423	52041745	540	52055351	542
50366920	438	506R	66	52041746	540	52055352	542
50366939	439	506RLD	66	52041747	540	52055359	542
50369105	414	50766797	442	52041748	541	52055360	542
50371541	454	50766803	442	52041749	541	52055361	542
50371550	454	50766919	472	52041750	540	52055362	542
50371568	454	507R	66	52041751	540	52055378	549
50371576	454	507RLD	66	52041752	541	52055379	549
50377299	490	508R	66	52041753	541	52055380	549
50383167	490	508RLD	66	52042827	420	52055381	549
50385224	454	509R	66	52045296	421	52055382	549
504R	66	509RLD	66	52045297	421	52055383	544
504RLD	66	50B	29	52046100	428	52055384	544
505R	66	50B10	28	52049371	459	52055385	537
505RLD	66	50B12	28	52055260	536	52055386	537
50600010	422	50B8	28	52055261	536	52055389	538
50600168	422	50R10	18	52055262	536	52055390	538
50600192	422	50R1045	20	52055265	544	52055391	538
50600257	421	50R12	18	52055267	543	52055392	538
50600311	421	50R1245	20	52055268	543	52055401	545
50600346	421	50R14	18	52055270	536	52055402	545
50600370	421	50R1445	20	52055271	536	52055403	545
50600400	421	50R16	18	52055272	536	52055431	418
50600435	421	50R1645	20	52055273	536	52055432	418
50600478	421	50R20	18	52055274	536	52055433	418
50600508	421	50R8	18	52055275	536	52055434	418
50600532	421	50R845	20	52055276	536	52055435	418



Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
52055436	418	52057777	451	52R14	18	588R12	118
52055437	418	52057778	451	52R16	18	589R10	118
52055438	418	52057779	451	52R1645	20	589R12	118
52055439	418	52057780	454	52R20	18	589R16	118
52055439SET	440	52057781	454	52R2045	20	58C4	51
52055440	418	52057782	454	530R	65	58C5	51
52055440SET	441	52057801	451	531R	65	58C6	51
52055684	391	52057802	451	532R	65	58N4	50
52057722	450	52057803	451	533R	65	58N5	50
52057723	450	52057804	451	534R	65	58N6	50
52057724	450	52057805	451	535R	65	58N8	50
52057725	450	52058592	427	53R12	18	590R10	118
52057726	450	52059292SET	452	53R1245	20	590R12	118
52057727	450	52059293SET	452	53R14	18	590R16	118
52057728	450	52059294SET	452	53R1445	20	592R12	118
52057729	450	52059295SET	452	53R16	18	592R16	118
52057730	450	52074656	538	53R1645	20	59C5	51
52057731	450	52074657	538	53R20	18	59C6	51
52057732	450	52074658	544	54R12	18	59N5	50
52057733	450	52084123	458	54R1245	20	59N6	50
52057734	450	52084124	458	54R14	18	5R10	14
52057735	450	52084125	458	54R1445	20	5R12	14
52057736	450	52084126	458	54R16	18	5R14	14
52057737	450	52084128	458	54R1645	20	5R16	14
52057738	450	52084129	458	54R20	18	5R6	14
52057739	450	52084131	458	551R	119	5R8	14
52057740	450	52084132	458	552R	119	5SG6	16
52057741	450	52084133	458	553R	119	602R10	25
52057742	450	52084134	458	554R	119	602R12	25
52057743	450	52084920	437	555R	119	602R5	25
52057744	450	52084941	437	556R	119	602R6	25
52057745	450	52085453	458	557R	119	602R8	25
52057746	450	52085633	416	558R	119	603R10	25
52057747	450	52085671	416	559R	119	603R12	25
52057748	450	52085672	415	56C4	51	603R5	25
52057749	450	52085675	415	56C5	51	603R6	25
52057750	450	52085678	415	56N3	50	603R8	25
52057751	450	52085681	415	56N4	50	604R10	25
52057752	450	52085684	415	56N5	50	604R12	25
52057753	450	52085686	419	572R6	118	604R14	25
52057754	451	52085688	419	573R6	118	604R5	25
52057755	451	52085689	420	573R8	118	604R6	25
52057756	451	52085690	420	574R8	118	604R8	25
52057757	451	52085691	420	575R8	118	605R10	25
52057758	451	52085692	420	57C4	51	605R12	25
52057760	451	52085693	420	57C5	51	605R14	25
52057761	451	52085694	419	57C6	51	605R16	25
52057762	451	52086846	461	57N3	50	605R6	25
52057763	451	52086978	432	57N4	50	605R8	25
52057764	451	52093902	420	57N5	50	606R10	26
52057765	451	523R	65	57N6	50	606R12	26
52057766	451	524R	65	584R10	118	606R14	26
52057767	451	525R	65	584R8	118	606R16	26
52057768	451	526R	65	585R10	118	606R20	26
52057769	451	527R	65	585R12	118	606R8	26
52057770	451	528R	65	585R8	118	607R10	26
52057771	451	529R	65	586R10	118	607R12	26
52057773	451	52R10	18	586R12	118	607R16	26
52057774	451	52R1045	20	587R10	118	607R6	26
52057775	451	52R12	18	587R12	118	607R8	26
52057776	451	52R1245	20	588R10	118	608R10	26

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
608R12	26	64N12	50	680	163	708F8	34
608R8	26	64R	52	680WS	163	709F10	34
609R10	26	65010	154	695V	136	709F12	34
609R12	26	6504	154	697V	136	709F14	34
60C5	51	6505	154	6B	29	709F16	34
60C6	51	6506	154	6B10	28	709F20	34
60C8	51	6508	154	6B5	28	70B	29
60N10	50	650C10	155	6B6	28	70B10	28
60N5	50	650C4	155	6B8	28	70B12	28
60N6	50	650C5	155	6R10	15	70B16	28
60N8	50	650C6	155	6R12	15	70B8	28
6192	154	650C8	155	6R14	15	710	156
61925	154	65210	76	6R16	15	710F10	34
6193	154	65212	76	6R20	15	710F12	34
61935	154	6526	76	6R6	15	710F14	34
6194	154	6528	76	6R8	15	710F16	34
6195	154	652C5	80	6SG10	16	710F20	34
619C3	155	652C6	80	6SG6	16	710K	156
61N10	50	65310	76	6SG8	16	710L	156
61N6	50	65312	76	700	163	7110V	136
61N8	50	6535	76	700WS	163	7112V	136
62010	154	6536	76	702F10	33	7115V	136
62025	154	6538	76	702F12	33	711F10	34
6203	154	653C6	80	702F5	33	711F12	34
62035	154	65410	76	702F6	33	711F14	34
6204	154	65412	76	702F8	33	711F16	34
6205	154	65416	76	703F10	33	711F20	34
6206	154	6545	76	703F12	33	712F10	34
6208	154	6546	76	703F5	33	712F12	34
620C3	155	6548	76	703F6	33	712F14	34
620C35	155	65510	76	703F8	33	712F16	34
620C4	155	65512	76	704	156	712F20	34
620C5	155	65516	76	704F10	33	713F12	34
620C6	155	6556	76	704F12	33	713F14	34
622R	27	6558	76	704F5	33	713F16	34
623R	27	65610	76	704F6	33	713F20	34
624R	27	65612	76	704F8	33	715	156
625R	27	65616	76	705	156	716V	136
626R	27	6566	76	705F10	33	718V	136
627R	27	6568	76	705F12	33	71S10V	136
628R	27	65710	77	705F14	33	71S6V	136
62N10	50	65712	77	705F6	33	71S8V	136
62N6	50	65716	77	705F8	33	720	159
62N8	50	6576	77	705K	156	7208	159
62R	52	6578	77	705V	136	720AZ	160
63010	154	65810	77	706F10	33	720BZ	160
6303	154	65812	77	706F12	33	720V	161
63035	154	65816	77	706F14	33	7210V	136
6304	154	65910	77	706F16	33	7212V	136
6305	154	65912	77	706F6	33	7215V	136
6306	154	65916	77	706F8	33	7218V	136
6308	154	65N10	50	707F10	34	7220V	136
630C3	155	65N12	50	707F12	34	722F	37
630C35	155	65R	52	707F14	34	723F	37
630C4	155	66010	77	707F16	34	724F	37
630C5	155	66012	77	707F8	34	725	170
630C6	155	66016	77	707V	136	725F	37
63N10	50	669	163	708F10	34	726F	37
63N8	50	66R	52	708F12	34	726V	136
63R	52	670	163	708F14	34	727F	37
64N10	50	670WS	163	708F16	34	727V	136



Technical Appendix

Alphanumerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
728F	37	748F8	36	79R	49	8230V	138
728V	136	748V	137	79V4	48	8232V	138
729F	37	749F10	36	79V5	48	8234V	138
72S10V	136	749F12	36	7R10	15	82R	49
72S12V	136	749F14	36	7R12	15	82V5	48
72S15V	136	749F16	36	7R14	15	82V6	48
72S6V	136	749V	137	7R16	15	82V8	48
72S8V	136	750	159	7R20	15	830	162
730	159	7509	159	7R6	15	8301	159
7308	159	750AZ	160	7R8	15	8301A	159
730AZ	160	750BZ	160	7SG10	16	8301AV	161
730BZ	160	750F10	36	7SG12	16	8301V	161
730F	37	750F12	36	7SG6	16	8302	159
730V	161	750F14	36	7SG8	16	8302B	162
7310V	136	750F16	36	8001	170	8302V	161
7312V	136	750F20	36	80012	170	8303	159
7315V	136	750V	161	8002	170	8303B	162
7318V	136	7510V	137	8011	171	8303V	161
731F	37	7512V	137	80112	171	8330V	138
7320V	136	7515V	137	8012	171	8332V	138
735	170	7518V	137	8018V	137	8334V	138
737V	136	751F12	36	8022V	137	8338V	138
738V	136	751F14	36	8025V	137	8340V	138
7410V	137	751F16	36	8030V	137	83R	49
7412V	137	751F20	36	8032V	137	83V5	48
7415V	137	7520V	137	8051	170	83V6	48
7418V	137	7525V	137	80512	170	83V8	48
7420V	137	752F16	36	8052	170	8432V	138
742F10	35	755	170	80R	49	8434V	138
742F12	35	7610V	137	80V4	48	8438V	138
742F5	35	7612V	137	80V5	48	8440V	138
742F6	35	7615V	137	80V6	48	84R	49
742F8	35	7618V	137	8101	170	84V6	48
743F10	35	7620V	137	81012	170	84V8	48
743F12	35	7625V	137	8102	170	850	162
743F5	35	769	164	8122V	138	8502B	162
743F6	35	770	164	8125V	138	8502V	161
743F8	35	7712V	137	8130V	138	8503	159
744F10	35	7715V	137	8132V	138	8503B	162
744F12	35	7718V	137	8151	171	8503V	161
744F5	35	7720V	137	81512	171	8532V	138
744F6	35	7725V	137	816	172	8540V	138
744F8	35	7732V	137	817	172	85R	49
745F10	35	775	170	81R	49	85V6	48
745F12	35	780	164	81V4	48	85V8	48
745F6	35	7812V	137	81V5	48	8634V	138
745F8	35	7815V	137	81V6	48	8640V	138
746F10	35	7818V	137	820	162	8678	145
746F12	35	7820V	137	8201	159	8688	145
746F14	35	7825V	137	8201A	159	8698	145
746F6	35	7828V	137	8201AV	161	86R	49
746F8	35	7832V	137	8201B	162	86V10	48
747F10	36	790	164	8201C	162	86V12	48
747F12	36	7912V	137	8201V	161	86V6	48
747F14	36	7915V	137	8202	159	86V8	48
747F16	36	7918V	137	8202B	162	87010	145
747F8	36	7920V	137	8202V	161	8708	145
748F10	36	7922V	137	8203	159	87110	145
748F12	36	7925V	137	8203B	162	8718	145
748F14	36	7930V	137	8203V	161	87212	145
748F16	36	7932V	137	8225V	138	8728	145

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
87310	145	950V	158	AE501	312	BAK9708	146
87313	145	95B	29	AE502	312	BAK9718	146
87412	145	95B10	28	AE503	312	BAK9728	146
87514	145	95B12	28	AES10S	326	BAK9738	146
87614	145	95B16	28	AES16S	326	BNC501	313
87714	145	95C4	13	AES2210S	332	C16	325
87R	49	95C5	13	AES22120S	332	C2216	331
87V10	48	95C6	13	AES22150S	332	C2225	331
87V12	48	95C8	13	AES2216S	332	C2235	331
87V16	48	95R4	12	AES22185S	332	C2250	331
87V8	48	95R5	12	AES22240S	332	C2270	331
88R	49	95R6	12	AES2225S	332	C25	325
88V10	48	95R8	12	AES2235S	332	C35	325
88V12	48	96C5	13	AES2250S	332	C50	325
88V8	48	96C6	13	AES2270S	332	CK16	121
8R10	15	96C8	13	AES2295S	332	CK25	121
8R12	15	97C5	13	AES25S	326	CK35	121
8R14	15	97C6	13	AES35S	326	CK50	121
8R16	15	97C8	13	AES50S	326	CK70	121
8R20	15	9R10	15	AES70S	326	CK95	121
8R8	15	9R12	15	AES95S	326	CR501	313
8SG10	16	9R14	15	AH120120	122	CR502	313
8SG12	16	9R16	15	AH7070	122	CR504	313
8SG6	16	9R20	15	AH9595	122	CR505	313
8SG8	16	9R8	15	AHP700L	481	CS1022	114
90508068	489	9SG10	16	AS105FHP	389	CS1228	114
90510593	489	9SG12	16	AS120FHP	389	CS1428	114
91C3	13	9SG6	16	ASSG105L	408	CS1635	114
91C4	13	9SG8	16	ASSG105L	408	CS615	114
91C5	13	A10	325	ASSG120SL	408	CS818	114
91R3	12	A150	325	ASSG120SL	408	D10	324
91R4	12	A1625	325	ASSGG105L	408	D120	324
91R5	12	A185	325	ASSGG105L	408	D150	324
920	157	A2210	330	ASSGG85L	408	D16	324
920V	158	A22150	330	ASSGG85L	408	D185	324
92C3	13	A221625	330	AST22120	331	D2210	329
92C4	13	A22185	330	AST2225	331	D22120	329
92C5	13	A22240	330	AST2235	331	D22150	329
92C6	13	A22300	330	AST2250	331	D2216	329
92R3	12	A2235	330	AST2270	331	D22185	329
92R4	12	A2250	330	AST2295	331	D22240	329
92R5	12	A2270	330	B2210	328	D2225	329
92R6	12	A2295120	330	B22120	328	D22300	329
930	157	A22SET	330	B22150	328	D2235	329
93C4	13	A300	144	B2216	328	D2250	329
93C5	13	A35	325	B22185	328	D226	329
93C6	13	A50	325	B22240	328	D2270	329
93R3	12	A70	325	B2225	328	D2295	329
93R4	12	A95120	325	B22300	328	D22SET	329
93R5	12	AD22120	330	B2235	328	D25	324
93R6	12	AD22150185	330	B2250	328	D35	324
93R8	12	AD2225	330	B226	328	D50	324
94C4	13	AD2235	330	B2270	328	D504	312
94C5	13	AD2250	330	B2295	328	D505	312
94C6	13	AD2270	330	B22SET	328	D6	324
94C8	13	AD2295	330	BAG9698	147	D70	324
94R4	12	AD25	325	BAG9708	147	D95	324
94R5	12	AD35	325	BAG9718	147	DNAW3	530
94R6	12	AD50	325	BAG9728	147	DNK742	234
94R8	12	AD70	325	BAG9738	147	DNP2	491
950	157	AD95	325	BAK9698	146	DP2250	329



Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
DP2270	329	ES20ISB	404	F2210	328	HA535	321
EBS12CFB	362	ES20ISB	404	F2216	328	HA550	321
EBS12CFM	362	ES20ISM	404	F2225	328	HA570	321
EBS12ML	355	ES20ISM	404	F2235	328	HA595120	321
EBS6LGKS	360	ES20ML	356	F2250	328	HAD13120	336
EBS8CFB	361	ES20RMCCFB	364	F2270	328	HAD13150185	336
EBS8CFM	361	ES20RMCCFM	364	F25	323	HAD1325	336
EBS8ML	355	ES32CFB	368	F35	323	HAD1335	336
EHP2380	478	ES32CFM	368	F50	323	HAD1350	336
EHP3	479	ES32FCFB	369	FHP2	477	HAD1370	336
EHP4115	480	ES32FCFM	369	FTA1	488	HAD1395	336
EHP4230	480	ES32FML	357	FTA4	488	HAD25240	340
EK12032CFB	270	ES32ISB	405	GR1698	142	HAD25300	340
EK12032CFM	270	ES32ISB	405	GR1690	140	HAD45150185	342
EK12042CFB	272	ES32ISM	405	GR1708	142	HAD45240	342
EK12042CFM	272	ES32ISM	405	GR170W	141	HAD45300	342
EK120IDCFB	269	ES32ML	357	GR1718	142	HAD525	321
EK120IDCFM	269	ES32RMCCFB	364	GR171G	141	HAD535	321
EK120UCFB	274	ES32RMCCFM	364	GR1728	142	HAD550	321
EK120UCFM	274	ES65CFB	375	GR172R0	141	HAD570	321
EK120UNVCFB	469	ES65CFM	375	GR1738	142	HAD595	321
EK120UNVCFM	469	ES85CFB	377	GR173B	141	HAES13120S	337
EK135FTCFB	276	ES85CFM	377	GR4698	139	HAES13150S	337
EK135FTCFM	276	ESG105CFB	378	GR4698DO	182	HAES13185S	337
EK1550ML	248	ESG105CFM	378	GR4708	139	HAES13240S	337
EK30IDML	247	ESG105RMCCFM	365	GR4708DO	182	HAES1325S	337
EK354CFB	256	ESG25CFB	366	GR4718	139	HAES1335S	337
EK354CFM	256	ESG25CFM	366	GR4718DO	182	HAES1350S	337
EK354ML	250	ESG45CFB	372	GR4728	139	HAES1370S	337
EK5018CFB	260	ESG45CFM	372	GR4728DO	183	HAES1395S	337
EK5018CFM	260	ESG55CFB	374	GR4738	139	HAES410S	317
EK505CFB	258	ESG55CFM	374	GR4738DO	183	HAES416S	317
EK505CFM	258	ESG65RMCCFM	365	H2270	331	HAES425S	317
EK50ML	244	ESG85CFB	376	HA1310	336	HAES435S	317
EK6022CFB	264	ESG85CFM	376	HA13150	336	HAES450S	317
EK6022CFM	264	ESGM45CFB	371	HA131625	336	HAES510S	322
EK60UNVCFB	468	ESGM45CFM	371	HA13185	336	HAES516S	322
EK60UNVCFM	468	ESM25CFB	367	HA13240	336	HAES525S	322
EK60VPCFB	266	ESM25CFM	367	HA13300	336	HAES535S	322
EK60VPCFM	266	ESM25ISB	403	HA1335	336	HAES550S	322
EK60VPFTCFB	267	ESM25ISM	403	HA1350	336	HAES570S	322
EK60VPFTCFM	267	ESM25ISM	403	HA1370	336	HAES595S	322
EKM6022CFB	262	ESM25ISMB	403	HA1395120	336	HAH13120	337
EKM6022CFM	262	ESM35CFB	370	HA15400	338	HAH1370	337
EKM6022ISB	398	ESM35CFM	370	HA15500	338	HAH1395	337
EKM6022ISB	398	ESM35ISB	402	HA25400	340	HAH25120	341
EKM6022ISM	398	ESM35ISB	402	HA25500	340	HAH2595	341
EKM6022ISM	398	ESM35ISM	402	HA410	317	HAST13120	336
EKM60IDCFB	268	ESM35ISM	402	HA41625	317	HAST1325	336
EKM60IDCFM	268	ESM50CFB	373	HA435	317	HAST1335	336
EKM60IDISB	400	ESM50CFM	373	HA450	317	HAST1350	336
EKM60IDISB	400	ESM50ISB	401	HA45150	342	HAST1370	336
EKM60IDISM	400	ESM50ISB	401	HA45185	342	HAST1395	336
EKM60IDISM	400	ESM50ISM	401	HA45240	342	HB410	314
EKM60UNVCFB	467	ESM50ISM	401	HA45300	342	HB4120	314
EKM60UNVCFM	467	ESSG105L	407	HA45400	342	HB4150	314
ES105CFB	379	ESSG105L	407	HA45500	342	HB416	314
ES105CFM	379	ESSGG85L	407	HA470	317	HB425	314
ES20CFB	363	ESSGG85L	407	HA510	321	HB435	314
ES20CFM	363	F10	323	HA5150	321	HB450	314
ES20E	356	F16	323	HA51625	321	HB46	314

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
HB470	314	HD45300	342	HIS550	319	HQ1395	335
HB495	314	HD45400	342	HIS570	319	HQ25150	340
HB4SET	315	HD45500	342	HIS595	319	HQ25185	340
HB51050	319	HD45625	342	HISQ1310	335	HQ25240	340
HB5120	319	HD45800	342	HISQ1316	335	HQ410	316
HB5150	319	HD46	316	HISQ1325	335	HQ416	316
HB51670	319	HD470	316	HISQ1335	335	HQ425	316
HB5185	319	HD495	316	HISQ1350	335	HQ435	316
HB52595	319	HD4SET	316	HISQ1370	335	HQ46	316
HB5635	319	HD51050	320	HISQ1395	335	HQ510	320
HB5SET	320	HD5120	320	HISQ25120	340	HQ516	320
HC1316	337	HD5150	320	HISQ25150	340	HQ525	320
HC1325	337	HD51670	320	HISQ410	316	HQ535	320
HC1335	337	HD5185	320	HISQ416	316	HQ550	320
HC1350	337	HD52595	320	HK12030	286	HR13120	333
HC1370	337	HD5635	320	HK12042	288	HR13150	333
HC2516	341	HD5SET	320	HK120U	290	HR1316	333
HC2525	341	HDP13120	334	HK252	308	HR13185	333
HC2550	341	HDP1350	334	HK45	309	HR13240	333
HC2595	341	HDP1370	334	HK6018	280	HR1325	333
HC416	317	HDP1395	334	HK6022	282	HR13300	333
HC425	317	HF1310	334	HK60UNV	465	HR1335	333
HC516	321	HF13120	334	HK60VP	284	HR13400	333
HC525	321	HF13150	334	HK60VPFT	285	HR1350	333
HC535	321	HF1316	334	HM4154	315	HR1370	333
HD1001000	343	HF1325	334	HM416	315	HR1395	333
HD100625	343	HF1335	334	HM4610	315	HR25150	339
HD100800	343	HF1350	334	HMC1310	337	HR25185	339
HD1310	334	HF1370	334	HMC1335	337	HR25240	339
HD13120	334	HF1395	334	HMC1350	337	HR25300	339
HD13150	334	HF25185	339	HMC1370	337	HR25400	339
HD1316	334	HF25240	339	HMC25120	341	HR410	314
HD13185	334	HF25300	339	HMC25150	341	HR4120	314
HD13240	334	HF410	315	HMC25185	341	HR4150	314
HD1325	334	HF416	315	HMC2535	341	HR416	314
HD13300	334	HF425	315	HMC2550	341	HR425	314
HD1335	334	HF435	315	HMC2570	341	HR435	314
HD1350	334	HF510	320	HMC2595	341	HR450	314
HD1370	334	HF516	320	HMC410	317	HR46	314
HD1395	334	HF525	320	HMC435	317	HR470	314
HD15400	338	HF535	320	HMC44	317	HR495	314
HD15500	338	HF550	320	HN1310	334	HR4SET	314
HD15625	338	HIS1310	333	HN1316	334	HR51050	319
HD25150	339	HIS13120	333	HN1325	334	HR5120	319
HD25185	339	HIS13150	333	HN1335	334	HR5150	319
HD25240	339	HIS1316	333	HN1350	334	HR51670	319
HD25300	339	HIS1325	333	HN1370	334	HR5185	319
HD25400	339	HIS1335	333	HN1395	334	HR5240	319
HD25500	339	HIS1350	333	HN4051	315	HR52595	319
HD25625	339	HIS1370	333	HN410	315	HR5635	319
HD410	316	HIS1395	333	HN41525	315	HR5SET	319
HD4120	316	HIS410	314	HN416	315	HRU1310	335
HD416	316	HIS416	314	HN446	315	HRU1312095	335
HD425	316	HIS425	314	HQ1310	335	HRU13150120	335
HD435	316	HIS435	314	HQ13120	335	HRU1316	335
HD450	316	HIS450	314	HQ13150	335	HRU13185150	335
HD451000	342	HIS470	314	HQ1316	335	HRU13240185	335
HD45120	342	HIS510	319	HQ1325	335	HRU13300240	335
HD45150	342	HIS516	319	HQ1335	335	HRU13300SM	335
HD45185	342	HIS525	319	HQ1350	335	HRU133525	335
HD45240	342	HIS535	319	HQ1370	335	HRU135035	335



Technical Appendix

Alphanumerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
HRU137050	335	HZAE46	318	K1031	349	K8SP	228
HRU139570	335	HZAE510	322	K1041	350	K93	223
HRU2510	340	HZAE516	322	K1051	352	K94	223
HRU2512095	340	HZAE54	322	K1061	349	K95	225
HRU25150120	340	HZAE56	322	K1062	349	KF125	122
HRU2516	340	HZAES410	318	K118	348	KKPE	193
HRU25185150	340	HZAES416	318	K130	350	KKPE13	193
HRU25240185	340	HZAES44	318	K150	351	KKPEH25	193
HRU25300240	340	HZAES46	318	K16	220	KL010160IS	496
HRU25300SM	340	IS10	323	K18	238	KL010210IS	496
HRU253525	340	IS16	323	K2	224	KL020165IS	496
HRU255035	340	IS2210	327	K2011	352	KL020180IS	496
HRU257050	340	IS22120	327	K22	240	KL020205IS	496
HRU259570	340	IS22150	327	K230	350	KL026205IS	496
HRU410	317	IS2216	327	K25	225	KL040115EL	509
HRU412095	317	IS2225	327	K250	351	KL040115ELW	509
HRU4150120	317	IS2235	327	K271	216	KL040128EL	509
HRU416	317	IS2250	327	K272	217	KL040128ELH	509
HRU43525	317	IS2270	327	K28	217	KL040145IS	497
HRU45035	317	IS2295	327	K29	218	KL040160IS	497
HRU47050	317	IS25	323	K3	209	KL040180IS	497
HRU49570	317	IS35	323	K3014K	215	KL042190IS	497
HRU510	321	IS50	323	K3016K	216	KL044200IS	497
HRU512095	321	IS501	313	K303	214	KL045180IS	497
HRU5150120	321	IS503	313	K304K	214	KL045240IS	497
HRU516	321	IS504	313	K306K	215	KL046200IS	498
HRU5185150	321	IS505	313	K32	211	KL050115EL	509
HRU5240185	321	IS5072	313	K34	212	KL050205IS	498
HRU5300240	321	IS70	323	K35	209	KL055205IS	498
HRU53525	321	IS95	323	K354	236	KL060160IS	499
HRU55035	321	ISQ10	324	K36	211	KL070250G	508
HRU57050	321	ISQ16	324	K37	212	KL070250IS	499
HRU59570	321	ISQ2210	329	K382	213	KL072180G	508
HS210	489	ISQ2216	329	K39	213	KL072250G	508
HS22	489	ISQ2225	329	K4	208	KL072300G	508
HS23	489	ISQ2235	329	K400	528	KL078250G	508
HS24	489	ISQ2250	329	K432	525	KL10010030IS	500
HS25	489	ISQ2270	329	K43290	525	KL10010035IS	500
HS26	489	ISQ25	324	K432U	525	KL10010035ISLIM	500
HS28	489	ISQ35	324	K432V	525	KL10010040IS	500
HSD1	406	ISQ50	324	K433	526	KL10010040ISLIM	500
HSD1	407	K02	224	K46	208	KL10012555IS	500
HSD2	406	K04	228	K48	210	KL10012555ISLIM	500
HSD2	407	K05	229	K5	226	KL10012565ISLIM	500
HSG45	381	K05BC	229	K50	235	KL10015065IS	500
HSG55	382	K05D	230	K507	234	KL10017580IS	500
HSG852	382	K05DSP	230	K511	233	KL1007525IS	500
HSOEL10	489	K05SP	229	K512	233	KL110PH1IS	500
HSOEL2	489	K06	231	K572	221	KL110PH1ISLIM	500
HSOEL3	489	K06BC	230	K582	221	KL110PH2IS	500
HSOEL4	489	K06D	231	K592	222	KL110PH2ISLIM	500
HSOEL5	489	K07	227	K5SP	226	KL110PH3IS	500
HSOEL6	489	K07SP	227	K6	226	KL120PZ1IS	501
HST131215	336	K09	232	K65	222	KL120PZ1ISLIM	501
HST1320	336	K09BC	232	K6SP	226	KL120PZ2IS	501
HST1346	336	K09D	233	K7	227	KL120PZ2ISLIM	501
HST138	336	K1	210	K7SP	227	KL120PZ3IS	501
HTA4	491	K100	348	K8	228	KL130PM1IS	501
HZAE410	318	K1011	351	K80	218	KL130PM1ISLIM	501
HZAE416	318	K1012	353	K82A	219	KL130PM2IS	501
HZAE44	318	K102	348	K82T	220	KL130PM2ISLIM	501

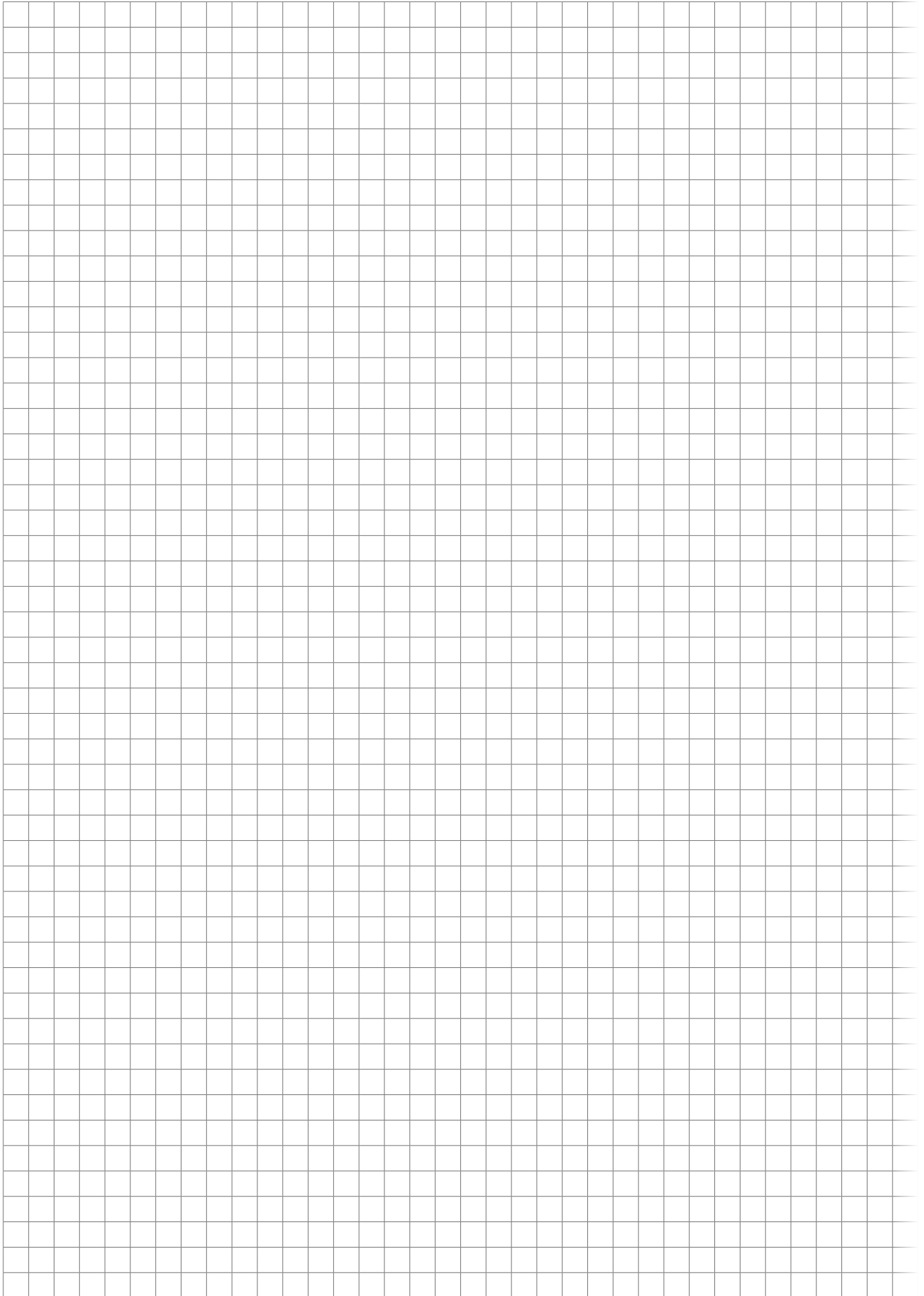
Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
KL145100IS	502	KL403	516	LBOXX3R8SET	199	MCK3595	122
KL145130IS	502	KL420200	515	LBOXX50B	199	MCK5050	121
KL14555IS	502	KL425400	516	LBOXX65B	198	MCK7095	122
KL14560IS	502	KL425600	516	LBOXX65BCB	200	MK18	193
KL14570IS	502	KL440F	516	LBOXX6R10SET	199	MK210L	192
KL14580IS	502	KL449	516	LBOXXEK354CFB	203	MK22	193
KL150TX10IS	502	KL500	517	LBOXXEK354CFM	203	MK220L	192
KL150TX15IS	502	KL510	517	LBOXXEK5018CFB	203	MK230B507	189
KL150TX15ISLIM	502	KL540	518	LBOXXEK5018CFM	203	MK230L	192
KL150TX20IS	502	KL542	519	LBOXXEK505CFB	203	MK55	192
KL150TX20ISLIM	502	KL542ES	519	LBOXXEK505CFM	203	MKU	194
KL150TX25IS	502	KL544	519	LBOXXEK50ML	198	N2210	328
KL150TX25ISLIM	502	KL544ES	519	LBOXXEKM6022CFB	203	N2216	328
KL150TX30IS	502	KL545	519	LBOXXEKM6022CFM	203	N2225	328
KL180B8	509	KL550	519	LBOXXEKM60IDCFB	203	N2235	328
KL180B8DISPLAY	509	KL550ES	518	LBOXXEKM60IDCFM	203	N2250	328
KL19073IS	502	KL550ES	519	LBOXXEKM60UNVCFB	203	NG2115	485
KL2007335	510	KL559	518	LBOXXEKM60UNVCFM	203	NG2230	485
KL2007340	510	KL580300	517	LBOXXES20CFB	203	PHD2	477
KL2007355	510	KL580500	517	LBOXXES20CFM	203	PK1000	307
KL2007365	510	KL5821000	517	LBOXXES32CFB	203	PK12042	300
KL21073PH1	510	KL5821250	517	LBOXXES32CFM	203	PK120U	302
KL21073PH2	510	KL584230	518	LBOXXES32FCFB	203	PK18	294
KL22073PZ1	510	KL585200	518	LBOXXES32FCFM	203	PK22	296
KL22073PZ2	510	KL585250	518	LBOXXLS50FLEXCFB	203	PK252	304
KL23073PM1	511	KL586	518	LBOXXLS50FLEXCFM	203	PK45	306
KL23073PM2	511	KL710	529	LBOXXMINIK3	201	PK60ID	299
KL25073TX10	511	KL720	530	LBOXXMINIK3014K	202	PK60UNV	466
KL25073TX15	511	KL730	529	LBOXXMINIK304K	202	PK60VP	298
KL25073TX20	511	KL735PV	530	LBOXXMINIK306K	202	PK60VPFT	298
KL25073TX25	511	KL740416	528	LGL1	486	Q10	324
KL25073TX27	511	KL740828	528	LGL3	486	Q16	324
KL25073TX30	511	KL745GK	528	LGLB1EU	486	Q2210	329
KL25073TX40	511	KL745HK	529	LGML1	487	Q2216	329
KL290	511	KL760180	526	LS100FLEXCFB	436	Q2225	329
KL291	511	KL760180IS	499	LS100FLEXCFM	436	Q2235	329
KL295	512	KL765FR215	527	LS50FLEXCFB	435	Q2250	329
KL296	512	KL765PV	527	LS50FLEXCFM	435	Q2270	329
KL303IS	503	KL855B22	520	M154	324	Q25	324
KL304IS	503	KL855L	523	M16	324	Q35	324
KL306IS	503	KL865L	523	M22154	328	Q50	324
KL330	515	KL905B15	521	M2216	328	Q501	312
KL331	515	KL905L	523	M22610	328	Q70	324
KL335	515	KL910L	523	M50154	312	R10	323
KL340	515	KL920B22	522	M50610	312	R120	323
KL361	512	KL920L	523	M610	324	R150	323
KL365	515	KMF1	491	MC10	325	R16	323
KL370	513	KSK1504	129	MC2210	331	R185	323
KL375	513	KSK504	129	MC2235	331	R2210	327
KL38715	513	KST2	490	MC224	331	R22120	327
KL38830	514	KV10	24	MC35	325	R22150	327
KL38954	514	KV120	24	MC4	325	R2216	327
KL390IS	504	KV16	24	MCK1010	121	R22185	327
KL390ISLIM	504	KV2.5	24	MCK1016	121	R22240	327
KL390TB9	505	KV35	24	MCK1025	121	R2225	327
KL390TL	505	KV4	24	MCK120120	122	R22300	327
KL391IS	503	KV50	24	MCK150150	122	R2235	327
KL391ISLIM	505	KV6	24	MCK185185	122	R2250	327
KL392IS	504	KV70	24	MCK2550	121	R226	327
KL393IS	504	KV95	24	MCK3535	121	R2270	327
KL402	516	LBOXX230B	201	MCK3570	121	R2295	327

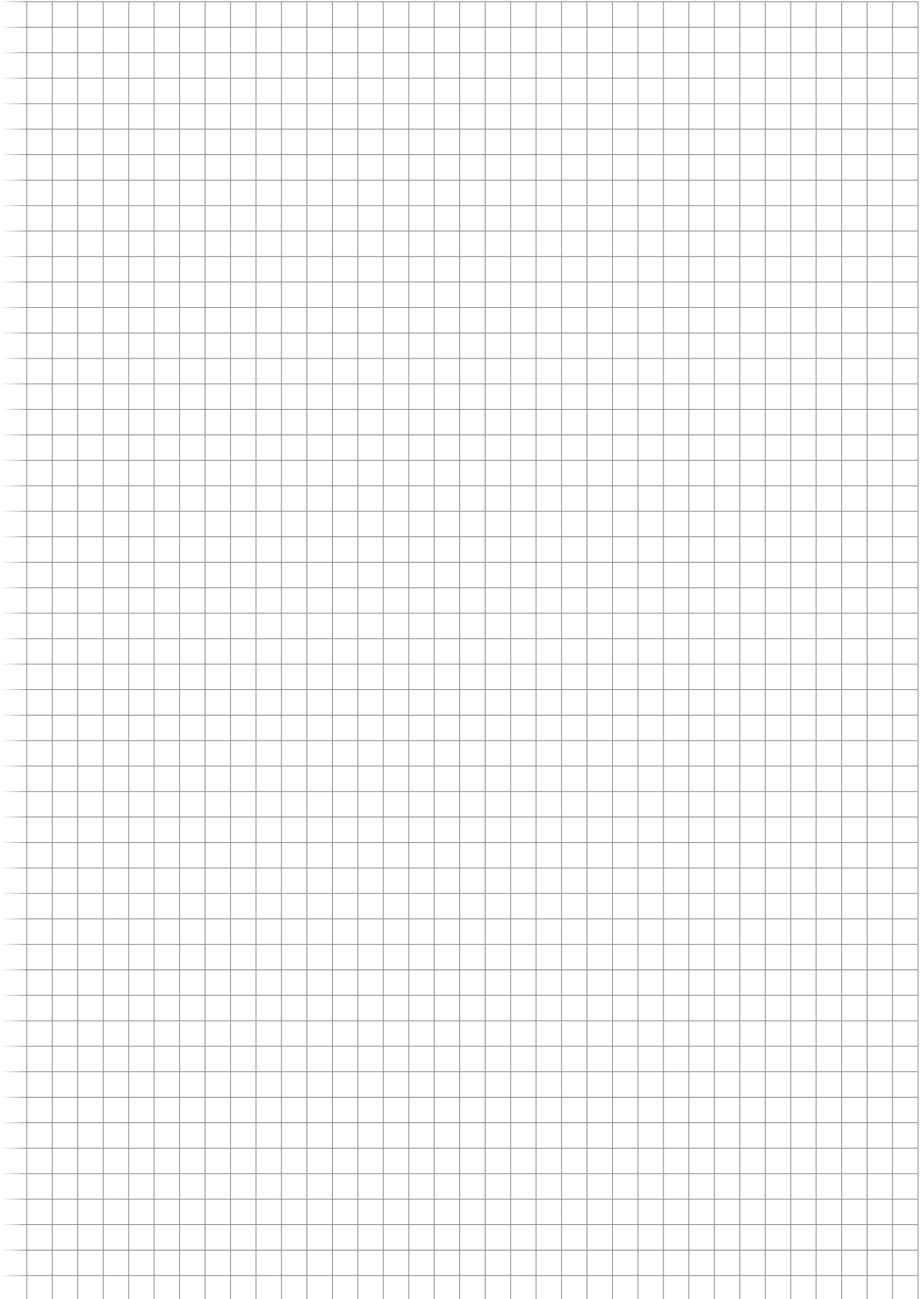


Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
R22SET	327	RU22240185	330	SR358	30	SV100	123
R240	323	RU22300240	330	SR5010	30	SV1525	31
R25	323	RU22300SM	330	SR506	30	SV16	31
R35	323	RU223525	330	SR508	30	SV200	123
R50	323	RU225035	330	SR65	30	SV200BK	123
R501	312	RU227050	330	SR66	30	SV25	31
R502	312	RU229570	330	SSG105	406	SV300	124
R504	312	RU240185	325	SSG105	406	SV300V	124
R505	312	RU300240	325	SSGG105	406	SV301	124
R6	323	RU3525	325	SSGG105	406	SV301AK	124
R70	323	RU5035	325	SSGG85	406	SV301AKV	124
R95	323	RU7050	325	SSGG85	406	SV301V	124
RAL1	483	RU9570	325	ST11B	179	SV302	124
RAL2	483	S18	392	ST12B	180	SV302AK	124
RAL3	483	SAK1095	120	ST13B	181	SV302AKV	124
RAL4	484	SAK16150	120	ST15B	179	SV302V	124
RAL40	484	SAK670	120	ST1705	79	SV303	124
RALB1EU	484	SB501	313	ST1710	79	SV303AK	124
RALB2EU	485	SDG105	387	ST1715	79	SV303AKNL	124
RAML1	485	SDG45	384	ST1716	79	SV303V	124
RH12050	68	SDG55	385	ST1716IS	77	SV304AKNL	124
RH12070	68	SDG852	386	ST1717	79	SV304AKNLV	124
RH12095	68	SDK105	387	ST1717IS	77	SV305	126
RH150120	68	SDK120	388	ST1718	79	SV305AK	126
RH15070	68	SDK65	385	ST1718IS	77	SV305AKV	126
RH15095	68	SDK85	386	ST1719	79	SV305V	126
RH185120	68	SK303P	185	ST1719IS	77	SV306	126
RH185150	68	SK303S	186	ST1720	79	SV306AK	126
RH18595	68	SK30B	183	ST1720IS	77	SV306AKV	126
RH240120	68	SK30L	191	ST1721	79	SV306V	126
RH240150	68	SK32B	184	ST1721IS	77	SV307AKNL	124
RH240185	68	SK32L	191	ST1722	79	SV307V	124
RH2510	68	SK43L	191	ST1722IS	77	SV308	124
RH2516	68	SK43NB	186	ST1B	179	SV309	125
RH300150	68	SK45B	184	ST21B	178	SV309AK	125
RH300185	68	SK47B	185	ST221215	331	SV309AKV	125
RH300240	68	SK4L	191	ST2220	331	SV309V	125
RH3510	68	SK4L	218	ST2246	331	SV310	125
RH3516	68	SK50B	188	ST228	331	SV310AK	125
RH3525	68	SK65B	187	ST22B	178	SV310AKV	125
RH400240	68	SK65L	193	ST23B	178	SV310V	125
RH400300	68	SK82P	190	ST2B	180	SV311AKNL	125
RH5016	68	SK82S	190	ST31B	180	SV312AKNL	125
RH5025	68	SKR1204	130	ST32B	181	SV312AKNLV	125
RH5035	68	SKR1501504	130	ST33B	182	SV315	125
RH7025	68	SKR1503	130	ST3B	181	SV315V	125
RH7035	68	SKR1504	130	ST5L	183	SV319AKNLV	125
RH7050	68	SKR150504	130	ST9698	146	SV320	125
RH9535	68	SKR1854	130	ST9708	146	SV320V	125
RH9550	68	SKV1525	32	ST9718	146	SV35	31
RH9570	68	SKV16	32	ST9728	146	SV4	31
RU10	325	SKV35	32	ST9738	146	SV400	127
RU12095	325	SKV4	32	STV10	31	SV405V	127
RU150120	325	SKV6	32	STV1525	31	SV410	127
RU16	325	SR106	30	STV16	31	SV410AK	127
RU185150	325	SR108	30	STV25	31	SV420V	127
RU2210	330	SR166	30	STV35	31	SV430	128
RU2212095	330	SR168	30	STV4	31	SV430AK	128
RU22150120	330	SR256	30	STV50	31	SV440AK	128
RU2216	330	SR258	30	STV6	31	SV50	31
RU22185150	330	SR3510	30	SV10	31	SV6	31

Part No.	Page
T15	488
TG3	487
THK120	300
THK18	294
THK22	296
TK95	225
TT2	194
TT4	194
TV10	23
TV120	23
TV15	23
TV150	23
TV16	23
TV185	23
TV2.5	23
TV240	23
TV25	23
TV35	23
TV4	23
TV50	23
TV6	23
TV70	23
TV95	23
TW150	487
UA12P	470
UA12TKL	470
UA18	470
UA22	470
UA5	470
UA6P	470
UC26	470
UC40	470
UCAC107	470
UCACSR	470
UCBC110	470
UCBC120	470
UCBC150	470
UCBC85	470
UCD3215	470
UCD3515	470
UCD3575	470
UCF	470
UCM10	470
UCM12	470
UCM5	470
UCM6	470
UCM8	470
UCN2980	470
UCUNC12	470
UCUNC14	470
UCUNC38	470
UPD6	470
VHD1203	90
VHD1204	91
VHD1503	90
VHD1504	91
VHD1853	90
VHD1854	91
VHD2403	90
VHD2404	91
VHD353	90

Part No.	Page
VHD354	91
VHD503	90
VHD504	91
VHD703	90
VHD704	91
VHD953	90
VHD954	91
VHR120	88
VHR1203	89
VHR1204	91
VHR150	88
VHR1503	89
VHR1504	91
VHR16	88
VHR185	88
VHR1853	89
VHR1854	91
VHR240	88
VHR2403	89
VHR2404	91
VHR25	88
VHR300	88
VHR35	88
VHR353	89
VHR354	91
VHR400	88
VHR50	88
VHR503	89
VHR504	91
VHR70	88
VHR703	89
VHR704	91
VHR95	88
VHR953	89
VHR954	91
ZAE10	326
ZAE16	326
ZAE2210	332
ZAE2216	332
ZAE224	332
ZAE226	332
ZAE4	326
ZAE6	326
ZAES10	326
ZAES16	326
ZAES2210	332
ZAES2216	332
ZAES224	332
ZAES226	332
ZAES4	326
ZAES6	326
ZST3	488
ZST4	488







Legend

Overview of our pictograms

▶ Connecting material

Tubular cable lugs and connectors blue connection – Cu	Tubular cable lugs and connectors – Ni	Compression cable lugs and connectors acc. to DIN – Al	Cable end-sleeves
Tubular cable lugs and connectors – Cu, standard type	Compression cable lugs and connectors acc. to DIN – Cu	Compression cable lugs and connectors for Aldrey cables	Twin cable end-sleeves
Insulated cable lugs and connectors; standard type	Compression cable lugs, double crimp – Cu	Compression cable lugs and connectors for Al/St cables	Insulated cable connections
Tubular cable lugs and connectors for fine stranded conductors	Solderless terminals, connectors and pin terminals acc. to DIN – Cu	Compression cable lugs and connectors – Al/Cu	Non-insulated receptacles
Tubular cable lugs and connectors for solid conductors	Insulated solderless terminals	C-clamps	
Tubular cable lugs and connectors – stainless steel	Sleeves for compacted conductors and sector shaped conductors – Cu	H-clamps	

▶ Type of cables

Solid conductor (class 1 according acc. to DIN EN 60228)	Fine stranded conductor (class 5 acc. to DIN EN 60228)	Solid sector shaped conductor 90° (class 1 acc. to DIN EN 60228)	Conductor for overhead lines (DIN EN 50182) made of aluminium / steel
Multi-stranded conductor (class 2 acc. to DIN EN 60228)	Superfine stranded conductor (class 6 acc. to DIN EN 60228)	Compacted multi-stranded sector shaped conductor 120° (class 2 acc. to DIN EN 60228)	Copper conductor for overhead lines (DIN 48201-1) and aluminium or aluminium alloy conductors (DIN EN 50182)
Compacted multi-stranded conductor (class 2 acc. to DIN EN 60228)	Solid sector shaped conductor 120° (class 1 acc. to DIN EN 60228)	Compacted multi-stranded sector shaped conductor 90° (class 2 acc. to DIN EN 60228)	

▶ Crimping profiles

Hexagonal crimping	Roll-crimping	Oval crimping	Quad-point indent crimping
Round crimping	Indent crimping	Four point crimping	Trapezoid crimping
Double indent crimp	Special trapezoid crimping	Indent crimping cable end-sleeves	
Gas-tight oval crimping	Square crimping	Indent crimping	

▶ Crimping tools

Centering system	Indent crimping	Synchronised die selection
------------------	-----------------	----------------------------

▶ Test mark

VDE	DET NORSKE VERITAS + German Lloyd
IEC	Insulated acc. to IEC 60900
CSA	CE
UL	GS

Algeria

KLAUKE FRANCE S.A.R.L.
57150 Creutzwald, France
Tel.: +33 38 72 98 47 0
Fax: +33 38 72 98 47 9
Denis.Mathieu@Emerson.com

Andorra

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS
Tomas Perez
28500 Arganda del Rey (Madrid) Spain
Tel.: 00800 35 31 06 80
Klauke.Iberia@Emerson.com

Argentina

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS
Fabio Cardoso
Santiago, Chile
Tel.: +56 22 29 84 80 0
Mobile: +56 98 76 98 51 7
Fabio.Cardoso@Emerson.com

Australia

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS
3061 Campbellfield
Tel.: +61 39 93 07 02 8
Joe.Aquilina@Emerson.com

Austria

KLAUKE HANDELSGES.M.B.H.
2544 Leobersdorf, Austria
Tel.: +43 22 56 62 92 5
Fax: +43 22 56 62 92 53 0
Klauke-atOffice@Emerson.com

Bahrain

NISSAD DEVELOPMENT CO. LTD.
1306 Nicosia
Tel.: +357 22 76 50 14
Fax: +357 22 76 15 35
Info@nissad.com

EMERSON COMMERCIAL & RESIDENTIAL SOLUTIONS

Ashfaq Awan
Saudi Arabia
Tel.: +966 11 40 26 77 9
Ashfaq.Awan@emerson.com

Belgium

NBR NUSSBAUMER NV/SA
1500 Halle
Tel.: +32 23 57 09 40
Fax: +32 23 54 96 79
Info@nussbaumer.be

Bosnien Herzegovina

KABELTECH DOO
71000 Sarajevo
Tel.: +387 33 71 30 61
Fax: +387 33 71 30 63
Info@kabeltech.co.ba

Brazil

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS
Marcos Fernandes
Sao Paulo, Brazil
Tel.: +55 15 34 13 71 25
Mobile: +55 11 98 41 50 78 2
Marcos.Fernandes@Emerson.com

Bulgaria

V & V ISOMATIC LTD.
1505 Sofia
Tel.: +359 29 58 31 11
Fax: +359 29 58 22 70
Office@viv-isomatic.com

Canada

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS
Rockford, IL 61109-2988
Tel.: +1 81 53 97 70 70
Customer Service Tel.: +1 80 04 35 786
Customer Service Fax: +1 80 04 51 26 32
Grncustomerservice@emerson.com

Cambodia

ELESCO ASIA PTE LTD
349562 Singapore
Tel.: +65 67 41 42 48
Fax: +65 67 77 36 86
Sales18@elesco.com.sg

Chile

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS
Fabio Cardoso
Santiago, Chile
Tel.: +56 22 29 84 80 0
Mobile: +56 98 76 98 51 7
Fabio.Cardoso@Emerson.com

China

EMERSON PROFESSIONAL TOOLS
(SHANGHAI) CO., LTD.
Shanghai 201613, China
Tel.: +86 21 57 07 80 01
Robert.Gong@Emerson.com

Columbia

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS
Fabio Cardoso
Santiago, Chile
Tel.: +56 22 29 84 80 0
Mobile: +56 98 76 98 51 7
Fabio.Cardoso@Emerson.com

Croatia

KONEKT D.O.O.
HR 10000 Zagreb
Tel.: +385 12 36 18 90
Fax: +385 12 36 18 82
Konekt@konekt.hr



Czech Republic

KLAUKE Z. NITSCH S.R.O.
100 00 Praha 10
Tel.: +420 26 12 13 21 92 20
Fax: +420 26 12 13 218
Klauke@klauke.cz

Denmark

WEXO E A/S
3500 Vaerloese
Tel.: +45 45 46 58 00
Fax: +45 45 46 58 01
Wexoe@wexoe.dk

Ecuador

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS
Fabio Cardoso
Santiago, Chile
Tel.: +56 22 29 84 80 0
Mobile: +56 98 76 98 51 7
Fabio.Cardoso@Emerson.com

Egypt

WARCO ENGINEERING & TRADING
Mohandessin / Giza
Tel.: +20 23 02 52 65
Fax: +20 23 02 52 75
Aragab@commnet.com.eg

El Salvador

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS
Ismael Sanchez
Col. San Pedro de los Pinos
Del. Álvaro Obregon, México
Tel.: +55 58 09 56 05
Mobile: +55 33 34 91 29
Ismael.Sanchez@emerson.com

Estonia

LAPP MILTRONIC EESTI FILIAAL
44307 Lääne-Virumaa
Tel.: +372 65 18 97 0
Fax: +372 65 18 97 1
Info@lappmiltronic.ee

Finnland

CABLEX OY
20360 Turku
Tel.: +358 28 80 00 20
Fax: +358 28 80 00 21
Reijo.karlsson@cablex.fi

France

KLAUKE FRANCE S.A.R.L.
57150 Creutzwald, France
Tel.: +33 38 72 98 47 0
Fax: +33 38 72 98 47 9
Denis.Mathieu@Emerson.com

Germany

GUSTAV KLAUKE GMBH
42855 Remscheid
Tel.: +49 21 91 90 70
Fax: +49 21 91 90 72 05 0
Klauke-Info@Emerson.com

Great Britain

KLAUKE UK LTD.
Bungay Suffolk NR35 1JX
Great Britain
Tel.: +44 01 98 68 91 519
Fax: +44 01 98 68 96 132
Denis.Mathieu@Emerson.com

Greece

KALAMARAKIS SAPOUNAS S.A.
13671 Chamomilos-Acharnes (Athens)
Tel.: +30 21 02 40 60 00 6
Fax: +30 21 02 40 60 07
Ksa@ksa.gr

Guatemala

**EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS**
Ismael Sanchez
Col. San Pedro de los Pinos
Del. Álvaro Obregon, México
Tel.: +55 58 09 56 05
Mobile: +55 33 34 91 29
Ismael.Sanchez@emerson.com

Hongkong

**EMERSON PROFESSIONAL TOOLS
(SHANGHAI) CO., LTD.**
Shanghai 201613, China
Tel.: +86 21 57 07 80 01
Robert.Gong@Emerson.com

Hungary

TRENDELEKTRO KFT.
2049 Diósd
Tel.: +36 23 54 51 40
Fax: +36 23 54 51 41
Info@trendelektro.hu

Iceland

REYKJAFELL LTD.
105 Reykjavik
Tel.: +354 58 86 01 0
Fax: +354 58 86 08 8
Reykjafell@reykjafell.is

India

**EMERSON CLIMATE TECHNOLOGIES
(INDIA) PVT LTD, KLAUKE INDIA.**
Bangalore 560102, Karnataka
Tel.: +91 90 08 01 37 84
Mobile: +91 97 40 93 60 06
Kiran.Manjunath@Emerson.com

Indonesia

**EMERSON COMMERCIAL &
RESIDENTIAL SOLUTIONS**
1550 Mandaluyong City
Tel.: +63 2 72 14 79 61
Mobile: +63 91 75 62 55 48
Maria.Merino-Reyes@Emerson.com

Ireland

KLAUKE UK LTD.
Bungay Suffolk NR35 1JX
Great Britain
Tel.: +44 01 98 68 91 51 9
Fax: +44 01 98 68 96 13 2
Klauke-sales@Emerson.com

Israel

SHAY A.U., LTD.
49222 Petach Tikva
Tel.: +972 39 23 36 01
Fax: +972 39 23 46 01
llans@uriel-shay.com

Italy

COMMERCIALE TIEGER S.R.L.
20159 Milano
Tel.: +39 02 68 86 33 0
Fax: +39 02 66 80 25 29
Comtieger@tin.it

Japan

MARUTAKA DENKI CO., LTD.
4910827 Aichi
Tel.: +81 90 58 58 39 37
Fax: +81 58 67 69 29 2
Taka@klauke.jp

Jordan

**EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS**
Muhammad El-Husseini
Saudi Arabia
Tel.: +966 55 66 11 45 2
Muhammad.Husseini@Emerson.com

NISSAD DEVELOPMENT CO. LTD

1306 Nicosia
Tel.: +357 22 76 50 14
Fax: +357 22 76 15 35
Info@nissad.com

Kosovo

NIDAS D.O.O.
11000 Beograd
Tel.: +381 11 24 17 71 4
Fax: +381 11 24 17 71 5
Office@nidas.co.rs

Kuwait

**EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS**
Sinan Öztürk
Qatar
Tel.: +974 66 43 9
Fax: +974 44 31 54 48
Sinan.Ozturk@Emerson.com

NISSAD DEVELOPMENT CO. LTD.

1306 Nicosia
Tel.: +357 22 76 50 14
Fax: +357 22 76 15 35
Info@nissad.com

Latvia

LAPP MILTRONIC SIA
LV-1021 Riga
Tel.: +371 67 50 19 00
Fax: +371 67 50 19 09
Info@lappmiltronic.lv

Lebanon

AL-BONIAN GROUP SARL
Beirut
Tel.: +961 13 85 75 5
Fax: +961 13 85 71 4
Info@al-boniangroup.com

Lithuania

**LAPP MILTRONIC
LIETUVOS FILIALAS**
LT-11341 Vilnius
Tel.: +370 52 78 03 90
Fax: +370 52 78 03 97
Info@lappmiltronic.lt

Luxemburg

M & A PARTNERS
8055 Bertrange
Tel./Fax: +352 22 63 62 04 6
Architi@pt.lu

Macedonia

SISKON SYSTEMS ENGINEERING
1000 Skopje
Tel.: +38 92 30 62 42 3
Fax: +38 92 30 61 25 0
Siskon@siskon.com.mk

Malaysia

D&P PROCESS SERVICES SDN BHD
59200 Kuala Lumpur
Tel.: +603 21 61 76 99
Fax: +603 21 68 82 99
ammir.iylia@dpservices-ap.com

IEP SDN BHD

43300 Selangor
Tel.: +603 89 59 85 88
Fax: +603 89 59 86 88
eric.ek@iep.com.my

Malta

ELEKTRA LTD
Qormi QRM 3100 Malta
Tel.: +356 25 46 30 00
Fax: +356 21 49 96 48
Info@elektra.com.mt

Mexiko

**EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS**
Ismael Sanchez
Col. San Pedro de los Pinos
Del. Álvaro Obregon, México
Tel.: +55 58 09 56 05
Mobile: +55 33 34 91 29
Ismael.Sanchez@Emerson.com

Montenegro

NIDAS D.O.O.
11000 Beograd
Tel.: +381 11 24 17 71 4
Fax: +381 11 24 17 71 5
Office@nidas.co.rs

Morocco

KLAUKE FRANCE S.A.R.L.
57150 Creutzwald
France
Tel.: +33 38 72 98 47 0
Fax: +33 38 72 98 47 9
Denis.Mathieu@Emerson.com

Netherlands

H.K. ELECTRIC BV
5321 JZ Hedel
Tel.: +31 73 59 97 59 9
Fax: +31 73 59 97 59 0
Verkoop@hkelectric.nl

New Zealand

**EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS**
3061 Campbellfield
VIC 3061
Tel.: +61 39 93 07 02 8
Joe.Aquilina@emerson.com

Nicaragua

**EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS**
Ismael Sanchez
Col. San Pedro de los Pinos
Del. Álvaro Obregon, México
Tel.: +55 58 09 56 05
Mobile: +55 33 34 91 29
Ismael.Sanchez@Emerson.com

Norway

EL-TECHNIC AS
Oslo, Norwegen
Tel.: +47 23 40 41 00
Erik@el-technic.no

Oman

**EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS**
Dubai United Arab Emirates
Tel.: +971 48 11 82 89
Fax: +971 48 86 54 65
Mobile: +971 55 72 30 47 7
Philip.Arzobal@Emerson.com

Paraguay

**EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS**
Fabio Cardoso
Santiago, Chile
Tel.: +56 22 29 84 80 0
Mobile: +56 98 76 98 51 7
Fabio.Cardoso@Emerson.com

Philippines

DULHUNTY TRADING INT'L
1115 Quezon City
Tel.: +632 41 68 28 4
Fax: +632 41 62 27 8
Gabatse@yahoo.com

Poland

**EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS**
Marek Baranski
40-589 Katowice
Tel.: +48 51 50 21 09 1
Mobile: +48 51 50 21 09 1
Marek.Baranski@Emerson.com

Portugal

PALISSY GALVANI ELECTRICIDADE SA.
2625-607 Vialonga
Tel.: +35 12 13 22 34 00
Fax: +35 12 13 22 34 10
Info@palissygalvani.pt

Qatar

**EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS**
Sinan Öztürk
Qatar
Tel.: +974 66 43 9
Fax: +974 44 31 54 48
Sinan.Ozturk@emerson.com

NISSAD DEVELOPMENT CO. LTD.

1306 Nicosia
Tel.: +357 22 76 50 14
Fax: +357 22 76 15 35
Info@nissad.com

Romania

GERKON ELECTRO S.R.L.
530211 Miercurea-Ciuc
Tel.: +40 26 63 72 10 8
Fax: +40 26 63 12 23 8
Office@gerkonelectro.ro

31257 Bucuresti
Tel.: +40 21 30 83 48 0
Fax: +40 21 32 22 39 9
Office@gerkonelectro.ro

Russia

UNIT MARK PRO
119147 Moscow
Tel.: +7 09 57 48 09 07
Fax: +7 09 57 48 09 09
Mark@unit.rm

Saudi-Arabia

**EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS**
Muhammad El-Husseini
Jeddah, Western Provinces
Tel.: +966 55 66 11 45 2
Muhammad.Husseini@Emerson.com

**EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS**

Ashfaq Awan
Riad, central and Eastern Province
Tel.: +966 11 40 26 77 9
Ashfaq.Awan@Emerson.com

NISSAD DEVELOPMENT CO.LTD.

1306 Nicosia
Tel.: +357 22 76 50 14
Fax: +357 22 76 15 35
info@nissad.com

Serbia

NIDAS D.O.O.
11000 Beograd
Tel.: +38 11 12 41 77 14
Fax: +38 11 12 41 77 15
Office@nidas.co.rs

Singapore

SUN HYDRAULICS
768159 Singapore
Tel.: +65 68 41 78 33
Fax: +65 68 44 22 31
sales@sunhydraulics.com.sg

Slovakia

KLAUKE SLOVAKIA S.R.O.
2601 Dolny Kubin
Tel.: +421 43 58 32 31 1
Fax: +421 43 58 32 33 4
Klauke-ASC-SK@Emerson.com

Slovenia

ISARIA D.O.O.
1420 Trbovlje
Tel.: +38 63 56 31 80 0
Fax: +38 63 56 31 80 2
Isaria.trbovlje@siol.net

South Africa

EBERHARDT-MARTIN CC.
2092 Newlands
Tel.: +27 11 28 80 00 0
Fax: +27 11 67 32 04 3
Ebm@ebm.co.za

South Korea

KESCO CO., LTD.
150-093 Seoul
Tel.: +82 22 61 40 98 9
Fax: +82 22 61 40 96 6
Tsoh@ikesco.com



Spain

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS
Tomas Perez
28500 Arganda del Rey (Madrid) Spain
Tel.: 00800 35 31 06 80
Klauke.Iberia@Emerson.com

Sweden

CABLEX OY
169 74 Solna
Tel.: +46 72 58 89 81 8
Info@klauke.se

Switzerland

FERRATEC AG
8964 Rudolfstetten
Tel.: +41 56 64 92 12 1
Fax: +41 56 64 92 14 1
Info@ferratec.ch

Taiwan

EMERSON PROFESSIONAL TOOLS
(SHANGHAI) CO., LTD.
Shanghai 201613, China
Tel.: +86 21 57 07 80 01
Robert.Gong@Emerson.com

Thailand

SUMMIT ENG. AND SERVICES CO. LTD
10400 Bangkok
Tel.: +662 64 22 47 8
Fax: +662 64 23 08 5
Sudsuda@greennovation.in.th

Tunisia

KLAUKE FRANCE S.A.R.L.
57150 Creutzwald
France
Tel.: +33 38 72 98 47 0
Fax: +33 38 72 98 47 9
Denis.Mathieu@Emerson.com

Turkey

KARDES ELEKTRIK SANAYI
34630 Sefaköy/Istanbul
Tel.: +90 21 26 24 92 04
Fax: +90 21 25 92 48 10
ganilmis@kardeselektrik.com.tr

United Arab Emirates

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS DUBAI
United Arab Emirates
Tel.: +971 48 11 82 89
Fax: +971 48 86 54 65
Mobile: +971 55 72 30 47 7
Philip.Arzobal@Emerson.com

NISSAD DEVELOPMENT CO. LTD.

1306 Nicosia
Tel.: +357 22 76 50 14
Fax: +357 22 76 15 35
Info@nissad.com

United States of America

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS
Rockford, IL 61109-2988
Tel.: +1 81 53 97 70 70
Customer Service Tel.: +1 80 04 35 78 6
Customer Service Fax: +1 80 04 51 26 32
Grncustomerservice@emerson.com

Venezuela

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS
Fabio Cardoso
Santiago, Chile
Tel.: +56 22 29 84 80 0
Mobile: +56 98 76 98 51 7
Fabio.Cardoso@Emerson.com

Vietnam

ELESCO ASIA PTE LTD
349562 Singapore
Tel.: +65 67 41 42 48
Fax: +65 67 77 36 86
Sales18@elesco.com.sg

Yemen

EMERSON COMMERCIAL
& RESIDENTIAL SOLUTIONS
Muhammad El-Husseini
Saudi Arabia
Tel.: +381 11 24 17 71 4
Muhammad.Husseini@Emerson.com

NISSAD DEVELOPMENT CO. LTD.

1306 Nicosia
Tel.: +357 22 76 50 14
Fax: +357 22 76 15 35
Info@nissad.com

Your Klauke contact in Europe

Distribution companies / Sales offices

Klauke®

Headquarter

GUSTAV KLAUKE GMBH

Auf dem Knapp 46

42855 Remscheid

Deutschland

Tel.: +49 (0) 2191 / 907 - 0

Fax: +49 (0)2191 / 907-1410

Klauke-info@emerson.com

Service Center addresses

Your direct link to our tool

service offers:

<https://www.klauke.com/ee/en/inspecting-and-servicing-tools>



Distribution companies / Sales offices

France

KLAUKE FRANCE S.A.R.L.

16, Rue Saint-Louis, Z.I. Actisud

57150 Creutzwald

France

Tel.: +33 38 72 98 470

Fax: +33 38 72 98 479

Denis.mathieu@emerson.com

Austria

KLAUKE HANDELSGES.M.B.H.

Ared-Str. 7 TOP 3

2544 Leobersdorf

Austria

Tel.: +43 22 56 62 925

Fax: +43 22 56 62 92 530

Klauke-atoffice@Emerson.com

Great Britain

KLAUKE UK LTD.

Hillside Road East

Bungay Suffolk NR35 1JX

Great Britain

Tel.: +44 19 86 89 15 19

Fax: +44 19 86 89 61 32

Klauke-sales@Emerson.com

Slovakia

KLAUKE SLOVAKIA S.R.O.

Nabrezie Oravy 2711

02 601 Dolny Kubin

Slovakia

Tel.: +421 43 58 32 341

Fax: +421 43 58 32 334

Klauke-sales.sk@Emerson.com

CONNECTING TOGETHER



RIDGID

GREENLEE

Klauke

Get the latest information on products, services and promotions
by signing up to our newsletter:

[KLAUKE.COM/NEWSLETTER](https://www.klauke.com/newsletter)

Follow us!



© 2021 Gustav Klauke GmbH. All rights reserved. The Klauke logo and the Emerson logo are registered trademarks of Emerson Electric Co. and its subsidiaries in the USA and in other countries. All other logos are the property of their respective owners. Subject to change. KATHAUP721GB 3.000 06/21 |

Klauke

Gustav Klauke GmbH
Auf dem Knapp 46
D-42855 Remscheid

Tel.: +49 (0) 2191 / 907 - 0
Klauke-Info@Emerson.com
Klauke.com

EMERSON