KLAUKE CATALOGUE 2021/2022

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

Klauketools.hu

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**
Tubular cable lugs 12
Tubular cable lugs for switchgear connections 16
Angle tubular cable lugs 17
Connectors 21
Insulated tubular cable lugs und connectors 25
Tubular cable lugs and connectors, blue connection® 28
Tubular cable lugs and compression joints for solid conductors 30
Tubular cable lugs and connectors for fine stranded conductors 33
Tool application chart 38

Tubular cable lugs and connectors - nickel, stainless steel **46**
Tubular cable lugs and connectors - stainless steel 48
Tubular cable lugs and connectors - nickel 50
Tool application chart 53

Copper compression cable lugs and connectors acc. to DIN **54**
Compression cable lugs acc. to DIN 46235 56
Angle compression cable lugs 58
Compression cable lugs, special type 62
Compression joints acc. to DIN 46267, part 1 and similar versions 64
Tool application chart 69

Copper terminals, connectors and pin terminals acc. to DIN **72**
Solderless terminals acc. to DIN 46234 74
Insulated solderless terminals 76
Solderless terminals, fork and pin type 78
Insulated solderless terminals for meter connections 80
Solderless connectors acc. to DIN 46341, part 1 80
Tool application chart 82

Sleeves for compacted conductors and sector-shaped conductors - copper **86**

Aluminium compression cable lugs and connectors acc. to DIN **92**
Aluminium compression cable lugs acc. to DIN 46329 and similar versions 94
Aluminium compression joints acc. to DIN 46267 part 2 and similar versions 97
Aluminium reduction compression joints 99
Aluminium compression joints, full tension 101
Aluminium compression cable lugs and connectors for Al/St cables DIN EN 50182 102
Tool application chart 103

Aluminium/copper compression cable lugs and connectors **106**
Aluminium/copper compression cable lugs 108
Aluminium/copper compression joints 111
Bi-metallic washer 114
Tool application chart 115

Clamps and screw connectors **116**
Punched cable lugs - copper 118
Screw connectors with soldering hole - brass 119
Parallel groove clamps - copper 120
C- and H-shaped clamps - copper 121
Screw connector for shielded copper wires 123
Screw connectors for street lighting - brass 123
Screw connectors, high-resistant aluminium alloy 124
Compact tab connectors, high resistant aluminium alloy 129
Tool application chart 131

Cable end-sleeves **134**
Cable end-sleeves DIN 46228, part 1 and part 2 136
Insulated cable-end sleeves acc. to DIN 46228, part 4 and similar versions 139
Insulated cable end-sleeves for short circuit resistant conductors 144
Insulated twin cable-end sleeves 145
Insulated cable-end sleeves, strips and tapes 146
Tool application chart 148

Cable connections, insulated and non insulated **152**
Insulated terminals 154
Non insulated flat connectors 165
Flexible connectors 170
Tool application chart 173

Assortments **176**
Pocket boxes with cable end-sleeves 178
Pocket boxes with insulated cable end-sleeves 179
Assortment boxes with cable end-sleeves 183
Assortment boxes with insulated cable-end sleeves 184
Assortment boxes with tubular and compression cable lugs 187
Assortment boxes with insulated terminals 189
Steel carrying cases / bags 191

L-BOXXes **196**

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.

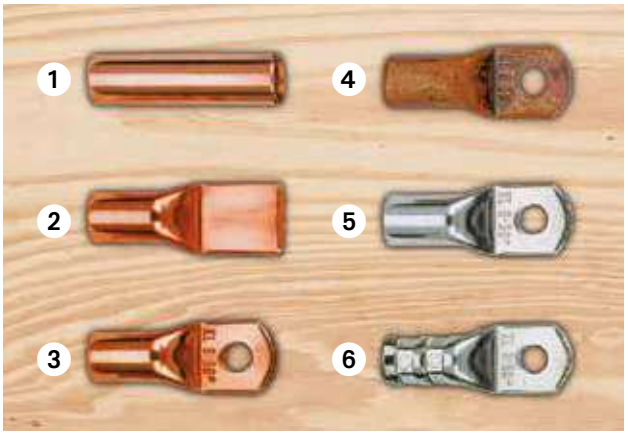
In brief

- 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
2. Folding and crimping
3. Punching
4. Annealing
5. Tinned end product
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.

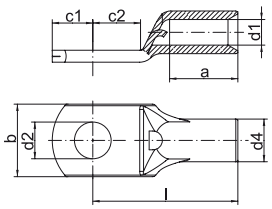
- Optimum conductivity, high loading capacity and increased safety thanks to high-quality materials
- Outstanding processing properties

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

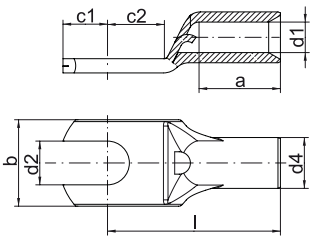
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 38

Nominal cross section mm²	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

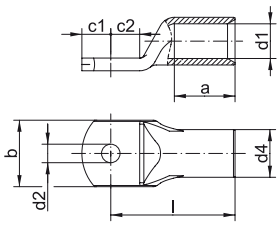
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 38

Nominal cross section mm²	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“

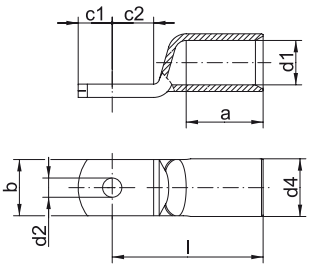
Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
6	M5	**1R5**	3.5	9	10	5.3	6.5	6.50	7.5	21	0.50	100
	M6	**1R6**	3.5	9	12	6.4	6.5	6.50	7.5	21	0.47	100
	M8	**1R8**	3.5	9	15	8.4	6.5	10.00	10.0	23	0.54	100
	M10	**1R10**	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 mm²	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
	M20	**9R20**	15.0	26	36	21.0	19.5	22.00	22.0	63	7.74	25
150	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
	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
185	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
	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
240	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
	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
300	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
	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
400	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
	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

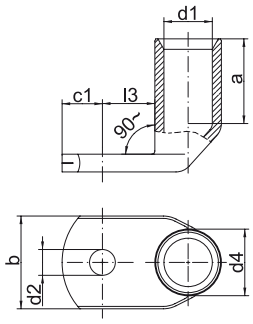
- Tool: see page 38
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“

Additional information

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

Nominal cross section mm²	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
50	M6	**6SG6**	10.0	19	15.0	6.5	14.0	10.0	10.0	37	2.95	25
	M8	**6SG8**	10.0	19	17.0	8.5	14.0	10.0	10.0	37	2.82	25
	M10	**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
	M8	**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
	M12	**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
	M8	**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
	M12	**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
	M8	**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
	M12	**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
	M8	**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
	M12	**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
	M12	**11SG12**	19.0	30	31.0	13.0	24.0	18.0	18.0	65	11.09	10
	M16	**11SG16**	19.0	30	31.0	17.0	24.0	18.0	18.0	65	9.76	10
240	M10	**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
	M16	**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
	M12	**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“

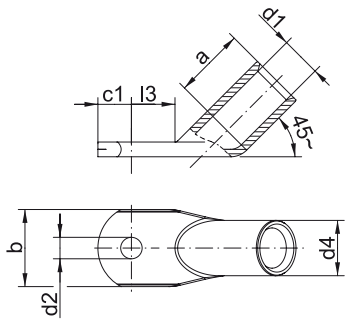
Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	l3		
6	M5	**41R5**	3.5	9	10	5.3	6.5	7.5	9	0.59	50
	M6	**41R6**	3.5	9	12	6.3	6.5	7.5	10	0.58	50
	M8	**41R8**	3.5	9	14	8.4	6.5	10.0	13	0.61	50
	M10	**41R10**	3.5	9	17	10.5	6.5	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
	M14	**44R14**	7.0	15	21	15.0	10.0	14.5	20	1.55	25
35	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 mm²	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	10
	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	10
	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	10
	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“

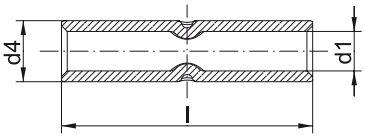
Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	l3		
6	M5	**41R545**	3.5	9	10	5.5	6.5	7.5	9	0.60	50
	M6	**41R645**	3.5	9	12	6.4	6.5	7.5	10	0.58	50
	M8	**41R845**	3.5	9	14	8.4	6.5	10.0	13	0.68	50
	M10	**41R1045**	3.5	9	17	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
	M14	**44R1445**	7.0	15	21	15.0	10.0	14.5	20	1.55	25
35	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 mm²	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
	M20	**47R2045**	12.0	21	30	21.0	16.5	19.0	24	5.60	25
95	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
	M20	**48R2045**	13.5	25	36	21.0	18.0	22.0	24	6.80	25
120	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
	M16	**49R1645**	15.0	26	30	17.0	19.5	16.0	22	8.26	10
150	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
	M16	**50R1645**	16.5	30	31	17.0	21.0	16.0	22	9.22	10
185	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
	M20	**51R2045**	19.0	30	39	21.0	24.0	22.0	24	13.10	10
240	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
	M20	**52R2045**	21.0	35	39	21.0	26.0	21.5	24	16.10	10
300	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 reducting 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

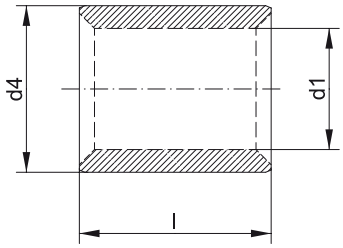
- Tool: see page 38
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“
- Reduction sleeves for connecting unequal cross-sections can be found on page 68

Additional information

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

Nominal cross section mm²	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)

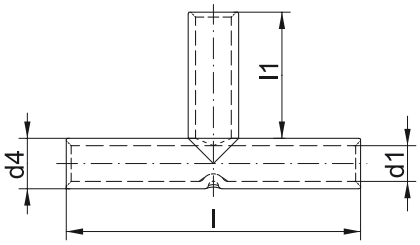
Surface
- Tin-plated to protect against corrosion

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 mm²	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 reducting 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

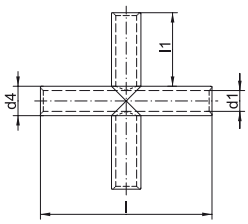
- Tin-plated to protect against corrosion

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 mm²	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 reducting 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

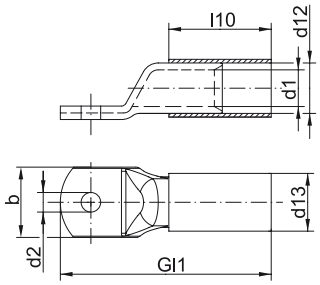
Technical instructions

- 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 mm²	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“

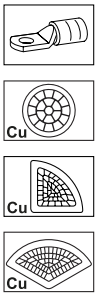
Nominal cross section mm²	Size of bolt dia.	Part No.	Colour	Dimension mm					weight 100 pcs. ~kg Cu	weight 100 pcs. ~kg Total	Packing unit/ pcs
				d12	d13	d2	Gl1	l10			
10	M5	**602R5**		7.0	9.0	5.5	35.5	17.0	0.50	0.548	25
	M6	**602R6**		7.0	9.0	6.5	35.5	17.0	0.49	0.538	25
	M8	**602R8**		7.0	9.0	8.5	42.0	17.0	0.58	0.628	25
	M10	**602R10**		7.0	9.0	10.5	46.0	17.0	0.62	0.668	25
	M12	**602R12**		7.0	9.0	13.0	49.0	17.0	0.64	0.688	25
16	M5	**603R5**		8.5	10.5	5.5	39.5	21.0	0.84	0.907	25
	M6	**603R6**		8.5	10.5	6.5	41.3	21.0	0.86	0.927	25
	M8	**603R8**		8.5	10.5	8.5	45.5	21.0	0.93	0.997	25
	M10	**603R10**		8.5	10.5	10.5	49.5	21.0	0.99	1.057	25
	M12	**603R12**		8.5	10.5	13.0	54.0	21.0	1.02	1.087	25
25	M5	**604R5**		10.0	12.0	5.5	45.0	24.0	1.22	1.312	25
	M6	**604R6**		10.0	12.0	6.5	46.5	24.0	1.20	1.292	25
	M8	**604R8**		10.0	12.0	8.5	51.0	24.0	1.31	1.402	25
	M10	**604R10**		10.0	12.0	10.5	55.0	24.0	1.57	1.662	25
	M12	**604R12**		10.0	12.0	13.0	57.0	24.0	1.39	1.482	25
	M14	**604R14**		10.0	12.0	15.0	61.5	24.0	1.49	1.582	25
35	M6	**605R6**		12.0	14.5	6.5	49.5	27.0	1.85	2.010	25
	M8	**605R8**		12.0	14.5	8.5	54.0	27.0	2.00	2.160	25
	M10	**605R10**		12.0	14.5	10.5	59.0	27.0	2.13	2.290	25
	M12	**605R12**		12.0	14.5	13.0	61.0	27.0	2.12	2.280	25
	M14	**605R14**		12.0	14.5	15.0	64.5	27.0	2.18	2.340	25
	M16	**605R16**		12.0	14.5	17.0	68.0	27.0	2.24	2.400	25

See next page

Insulated tubular cable lugs, Cu, standard type

Nominal cross section mm²	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

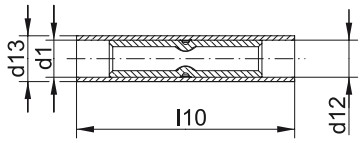
- Connector: Copper (EN 13600)
- Insulation sleeve: PA, halogen-free

Surface

- Tin-plated to protect against corrosion

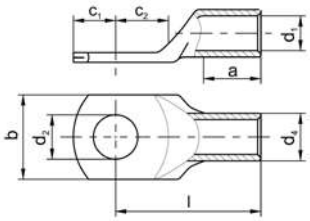
Technical instructions

- 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 mm²	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

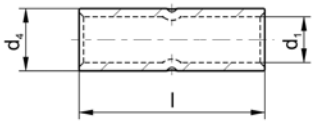
Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
6	M5	**6B5**	3.20	9.0	10.50	5.30	5.00	5.00	6.50	20.50	0.24	50
	M6	**6B6**	3.20	9.0	11.00	6.40	5.00	6.00	8.00	22.00	0.26	50
	M8	**6B8**	3.20	9.0	12.50	8.40	5.00	8.00	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
50	M8	**50B8**	9.20	11.0	19.00	8.40	12.40	8.00	10.00	31.00	1.87	25
	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
70	M8	**70B8**	11.00	21.0	22.00	8.40	14.60	8.00	10.00	41.50	3.17	25
	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 mm²	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

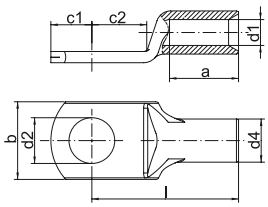
- Tool: see page 41

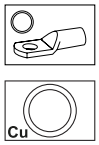
Additional information

- 10-300 mm² IEC-tested

Nominal cross section mm²	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

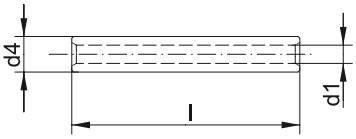
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 44

Nominal cross section mm²	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		**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

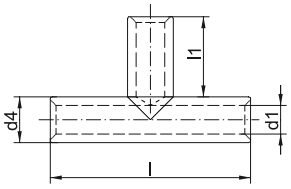
Material
- Copper (EN13600)

Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 44

Nominal cross section mm²	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

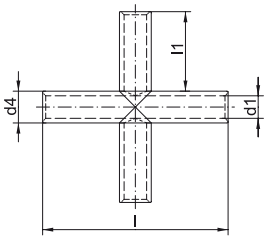
Material
- Copper (EN13600)

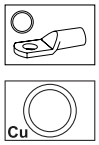
Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 44

Nominal cross section mm²	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

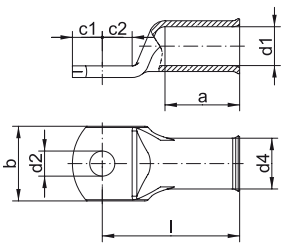
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 44

Nominal cross section mm²	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

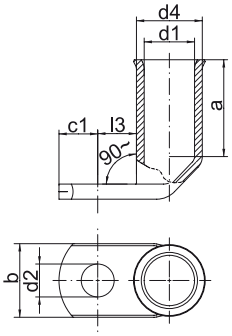
Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
10	M5	**702F5**	5.5	14	12	5.5	8.0	6.25	7.5	27	0.72	100
	M6	**702F6**	5.5	14	12	6.5	8.0	6.25	7.5	27	0.71	100
	M8	**702F8**	5.5	14	16	8.4	8.0	9.00	9.5	29	0.77	100
	M10	**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 mm²	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

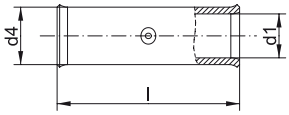
Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	l3		
10	M5	**742F5**	5.5	14	12	5.3	8.0	6.25	10.5	0.80	50
	M6	**742F6**	5.5	14	12	6.4	8.0	6.25	10.5	0.78	50
	M8	**742F8**	5.5	14	16	8.4	8.0	9.00	12.5	0.84	50
	M10	**742F10**	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 mm²	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)

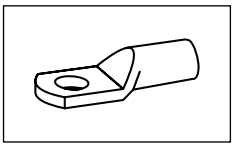
Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 42

Nominal cross section mm²	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

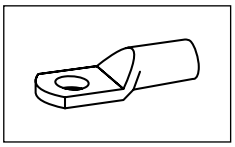


Tool application chart

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 mm²	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	

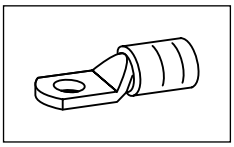
See next page



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

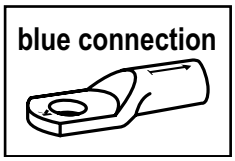
Tool type	Crimping range corresponds to nominal cross-section mm²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Battery powered crimping tools	6 - 300	EK6022		264	327	⬡
		EKM6022		262	327	⬡
		EK60UNV	+UA22	468	327	⬡
		EKM60UNV	+UA22	467	327	⬡
	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“

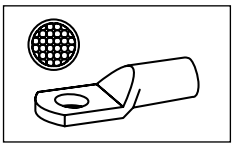
Tool type	Crimping range corresponds to nominal cross-section mm²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	10 - 70	K354		236	314	⬭
	10 - 95	K18		238	323	⬭
	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	⬭
	10 - 150	EK6022		262	327	⬭
		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 mm²	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	⬡



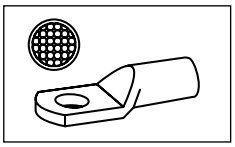
Tool application chart

Tubular cable lugs and butt connectors for fine stranded conductors

Part 1 of 2

Tool type	Crimping range corresponds to nominal cross-section mm²	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	
	10 - 50	EK354ML		250	315	
		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

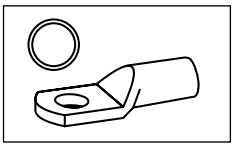


Tool application chart

Tubular cable lugs and butt connectors for fine stranded conductors

Part 2 of 2

Tool type	Crimping range corresponds to nominal cross-section mm²	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 mm²	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	⬡
	1.5-16	EK354ML		250	315	⬡
		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	324	⬡
		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.

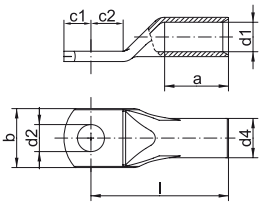
- High-quality nickel
- Heat-resistant to 650 °C
- No constant replacement of the cable lug at hot locations

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

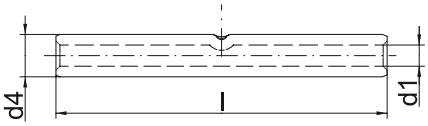
Material
- V2A (X5CrNi18-10)

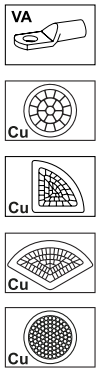
Technical instructions
- Tool: see page 53

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

Nominal cross section mm²	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
	M12	**86V12**	10.0	19	20.0	13	13	13.0	14.0	43	2.960	50
70	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
	M16	**87V16**	12.0	21	26.0	16	16	17.0	16.0	46	3.960	25
95	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

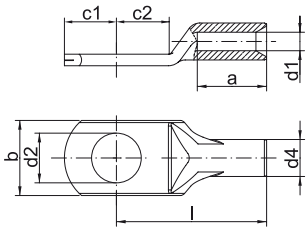
- Tool: see page 53

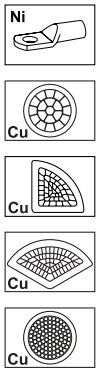
Additional information

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

Nominal cross section mm²	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

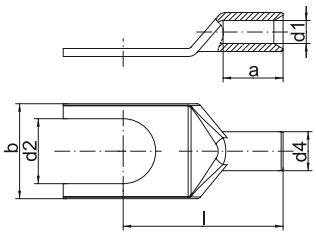
- High-grade nickel

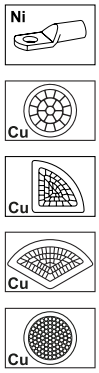
Technical instructions

- Tool: see page 53

Nominal cross section mm²	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
	M6	**57N6**	2.3	6	9.5	6.5	3.9	6.0	6.5	16	0.130	100
4 - 6	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
	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
10	M5	**59N5**	4.5	10	12.0	5.5	6.5	5.5	6.5	21	0.340	100
	M6	**59N6**	4.5	10	12.0	6.5	6.5	6.5	7.5	22	0.360	100
16	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
	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
25	M6	**61N6**	7.0	15	14.0	6.5	10.0	7.5	7.5	30	1.200	50
	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
35	M6	**62N6**	8.5	17	17.0	6.5	12.0	7.5	7.5	32	1.850	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
50	M8	**63N8**	10.0	19	20.0	8.5	14.0	10.0	10.0	37	2.900	50
	M10	**63N10**	10.0	19	20.0	10.5	14.0	12.0	12.0	39	3.100	50
70	M10	**64N10**	12.0	21	23.0	10.5	16.5	12.0	12.0	44	4.600	25
	M12	**64N12**	12.0	21	23.0	13.0	16.5	13.0	13.0	46	4.660	25
95	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

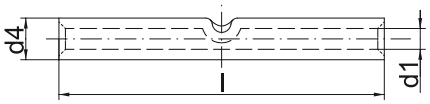
- High-grade nickel

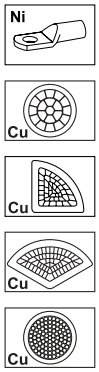
Technical instructions

- Tool: see page 53

Nominal cross section mm²	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
4 - 6	M4	**58C4**	3.6	9	9.5	4.3	5.6	18	0.250	50
	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

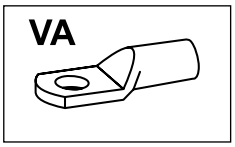
Material

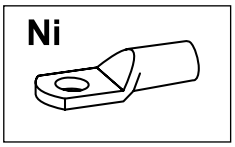
- High-grade nickel

Technical instructions

- Tool: see page 53

Nominal cross section mm²	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 mm²	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	+
		HK120U		290	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 mm^2 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

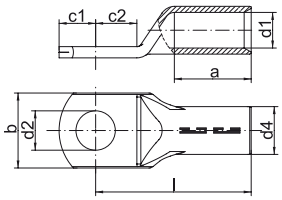
We offer cable lugs with tube dimension to DIN in numerous different forms and versions. If there happens to be no suitable connector for you, we will of course make you one to suit your needs.

- 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

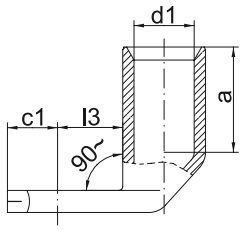
Nominal cross section mm²	Size of bolt diameter	Part No.	Hint	Code	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
					a	b	d1	d2	d4	c1	c2	l		
6	M 5	**101R5**		5	10.5	8.5	3.8	5.3	5.5	6.5	7.5	25	0.24	100
	M 6	**101R6**		5	10.5	8.5	3.8	6.4	5.5	8.0	8.5	25	0.30	100
	M 8	**101R8**	*	5	10.5	13.0	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

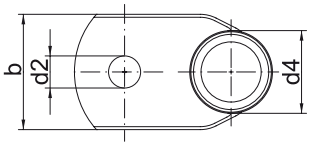
see next page

Compression cable lugs to DIN, Cu

Nominal cross section mm²	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		
	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
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
	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
70	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
	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
95	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
	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
120	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
	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
150	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
	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
185	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
	M 12	**112R12**		28	40	42.0	21.5	13.0	29.0	13.5	18.0	93	27.00	10
240	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
	M 12	**113R12**	*	32	50	46.0	24.5	13.0	32.0	14.0	22.0	101	32.89	5
300	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
	M 14	**114R14**	*	38	70	54.0	27.5	15.0	38.5	22.5	23.0	116	69.38	5
400	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

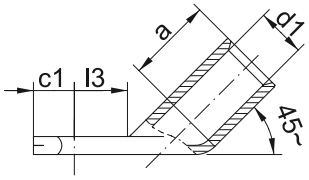
Nominal cross section mm²	Size of bolt diameter	Part No.	Code	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	d4	c1	l3		
6	M 5	**161R5**	5	10.5	8.5	3.8	5.3	5.5	6.5	9	0.28	50
	M 6	**161R6**	5	10.5	8.5	3.8	6.4	5.5	8.0	10	0.32	50
10	M 5	**162R5**	6	10.5	9.0	4.5	5.3	6.0	6.5	10	0.34	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

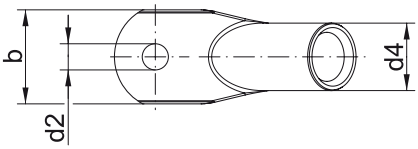
see next page

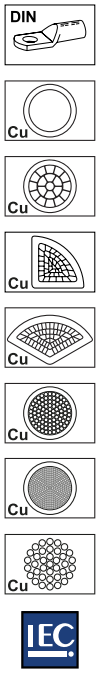
Angled compression cable lugs, Cu, 90° angled

Nominal cross section mm²	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

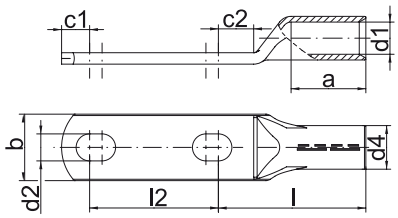
Nominal cross section mm²	Size of bolt diameter	Part No.	Code	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	d4	c1	l3		
6	M 5	**161R545**	5	10,5	8,5	3,8	5,3	5,5	6,5	9	0,32	50
	M 6	**161R645**	5	10,5	8,5	3,8	6,4	5,5	8,0	10	0,34	50
10	M 5	**162R545**	6	10,5	9,0	4,5	5,3	6,0	6,5	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
16	M 6	**163R645**	8	20,5	13,0	5,5	6,4	8,5	8,0	11	1,20	50
	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
25	M 6	**164R645**	10	20,5	14,0	7,0	6,4	10,0	8,0	11	1,49	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
35	M 8	**165R845**	12	20,5	17,0	8,2	8,4	12,5	10,5	13	2,72	25
	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
50	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
	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 mm²	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

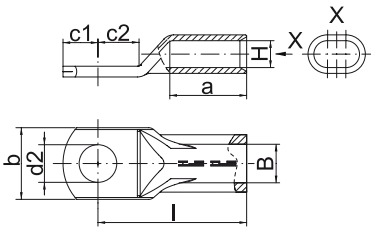
- Tool: see page 69

Additional information

- Part Number appendix for bright version „BK“

Nominal cross section mm²	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

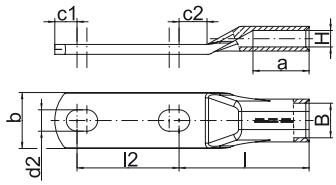
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 70

Nominal cross section mm²	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

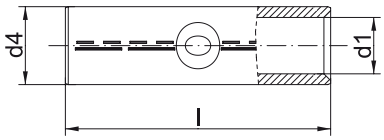
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 70

Nominal cross section mm²	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

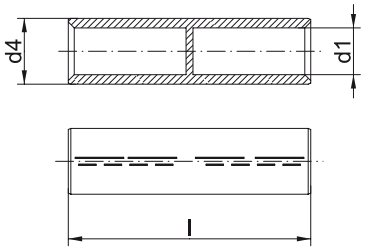
- Tool: see page 69
- Reduction sleeves for connecting unequal cross-sections can be found on page 68

Additional information

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

Nominal cross section mm²	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

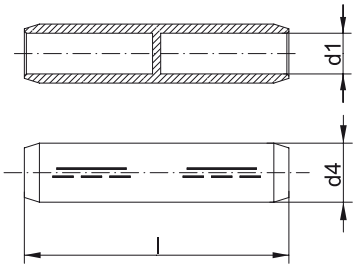
- Tool: see page 69
- Reduction sleeves for connecting unequal cross-sections can be found on page 68

Additional information

- Part Number appendix for bright version „BK“

Nominal cross section mm²	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)

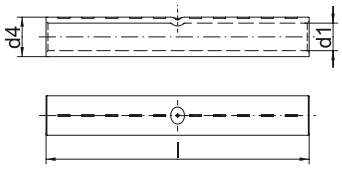
Surface
- Bright

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 mm²	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

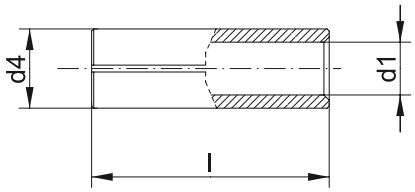
- To process item 192R use crimping die HAD45240
- Tool: see page 69

Additional information

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

Nominal cross section mm²	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

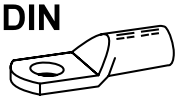
Material
- Copper (EN13600)

Surface
- Bright

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

Part No.	Nominal cross section mm² from	Nominal cross section mm² 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

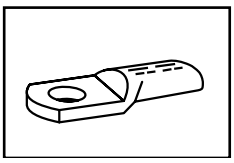
DIN



Tool application chart

Compression cable lugs and compression joints

Tool type	Crimping range corresponds to nominal cross-section mm²	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 mm²	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	⬭
		HK120U		290	334	⬭
Battery powered crimping tools	**2x50 - 2x70**	EK6022		264	329	⬭
		EKM6022		262	329	⬭
		EK60UNV	+UA22	468	329	⬭
		EKM60UNV	+UA22	467	329	⬭
	2x50 - 2x120	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.

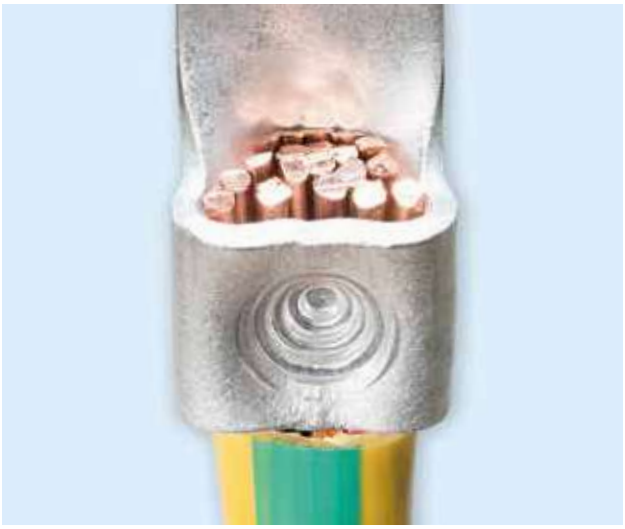
In brief

- 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

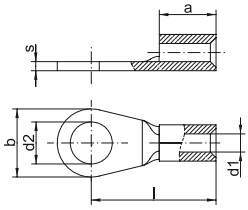


Well insulated

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

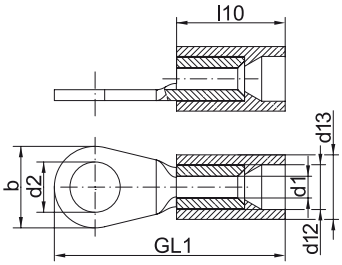
Nominal cross section mm²	Nominal size to DIN	Part No.	Hint	Dimension mm						Weight/ 100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	l	s		
0.5 - 1	2.5 - 1	**162025**		5	6	1.6	2.8	11	0.8	0.060	100
	3 - 1	**16203**		5	6	1.6	3.2	11	0.8	0.060	100
	3.5 - 1	**162035**		5	6	1.6	3.7	11	0.8	0.055	100
	4 - 1	**16204**		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
	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	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 - 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
10	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
	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
16	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

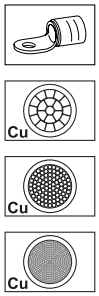
see next page

Solderless terminals to DIN, Cu

Nominal cross section mm²	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

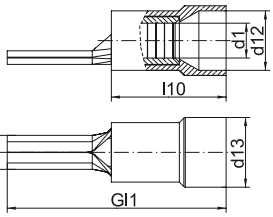
Nominal cross section mm²	Part No.	Colour	Dimension mm							Weight 100 pcs. ~kg Cu	Weight 100 pcs. ~kg Total	Packing unit/ pcs
			b	d1	d12	d13	d2	Gl1	l10			
10	**6526**		11	4.5	6.7	8.6	6.5	34.0	19.0	0.24	0.28	100
	6528		14	4.5	6.7	8.6	8.4	37.5	19.0	0.29	0.33	100
	65210		18	4.5	6.7	8.6	10.5	41.5	19.0	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

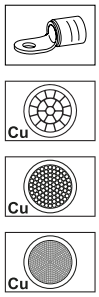
see next page

Insulated solderless terminals, Cu with Easy-Entry

Nominal cross section mm²	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			
	6576		22	13.0	17.4	20.0	6.5	61.5	30.5	2.60	2.90	50
	6578		22	13.0	17.4	20.0	8.4	61.5	30.5	2.50	2.80	50
70	**65710**		22	13.0	17.4	20.0	10.5	66.5	30.5	2.50	2.80	50
	65712		22	13.0	17.4	20.0	13.0	66.5	30.5	2.40	2.70	50
	65716		28	13.0	17.4	20.0	17.0	70.5	30.5	2.70	3.00	50
	65810		24	15.0	20.5	23.5	10.5	70.0	34.0	4.10	4.50	25
95	**65812**		24	15.0	20.5	23.5	13.0	70.0	34.0	3.90	4.40	25
	65816		28	15.0	20.5	23.5	17.0	76.0	34.0	4.10	4.50	25
	65910		24	17.0	23.5	26.7	10.5	79.0	36.0	5.60	6.10	25
120	**65912**		24	17.0	23.5	26.7	13.0	82.0	36.0	5.40	5.90	25
	65916		28	17.0	23.5	26.7	17.0	90.0	36.0	5.80	6.30	25
	66010		30	19.0	26.0	29.2	10.5	80.0	39.0	7.60	8.40	25
150	**66012**		30	19.0	26.0	29.2	13.0	83.0	39.0	7.60	8.40	25
	66016		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

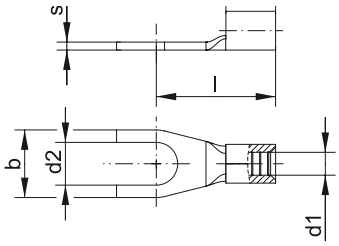
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 84

Nominal cross section mm²	Part No.	Colour	Dimension mm						Weight 100 pcs. ~kg Cu	Weight 100 pcs. ~kg Total	Packing unit/pcs
			b	d1	d12	d13	Gl1	l10			
10	**ST1716IS**		4.3	4.3	7.4	9.4	33.0	19.0	0.27	0.31	100
16	**ST1717IS**		5.5	5.4	8.6	10.6	38.0	20.0	0.39	0.44	100
25	**ST1718IS**		6.8	6.7	12.5	14.5	43.5	23.5	0.63	0.73	50
35	**ST1719IS**		8.0	8.2	14.0	16.4	51.5	27.5	1.17	1.34	50
50	**ST1720IS**		9.5	9.5	15.5	18.0	59.0	33.0	1.79	2.10	50
70	**ST1721IS**		11.0	11.2	18.0	20.5	69.0	38.0	2.92	3.20	50
95	**ST1722IS**		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)

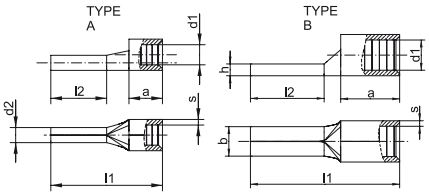
Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 82

Additional information
- 0.5 - 6 mm² not UL-certified

Nominal cross section mm²	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

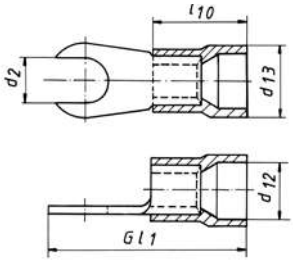
- Tool: see page 82

Additional information

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

Nominal cross section mm²	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

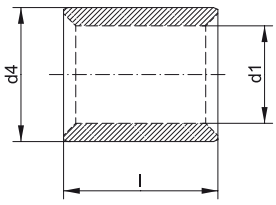
Material
- Copper (EN13599)
- Insulation sleeve: PA

Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 84

Nominal cross section mm²	Part No.	Colour	Dimension mm					Gewicht 100 St. ~kg Cu	Gewicht 100 St. ~kg Ges.	Packing unit/ pcs
			d12	d13	d2	Gl1	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)

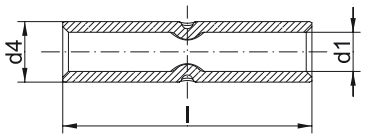
Surface
- Tin-plated to protect against corrosion

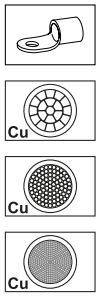
Technical instructions
- Tool: see page 82

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

Nominal cross section mm²	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)

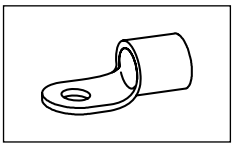
Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 82

Nominal cross section mm²	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

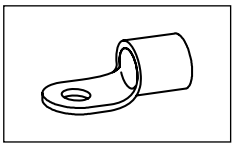


Tool application chart

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 mm²	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	

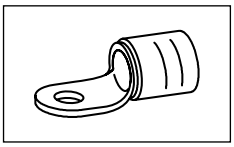
see next page



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 mm²	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 mm²	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.

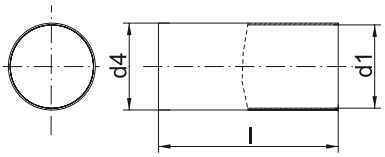
- Simple filling of compacted conductors
- For nominal cross-sections of up to 400 mm²
- High-quality material reduces contact resistance
- No special solutions required: existing tool can be used for reliable crimping

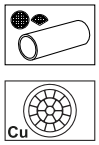
Pre-rounded sector-shaped conductors

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

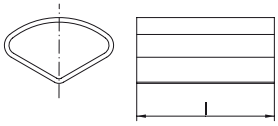
Material
- Copper (HCP)

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 mm²	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

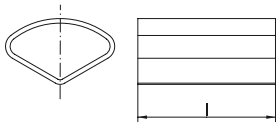
- Tin-plated to protect against corrosion

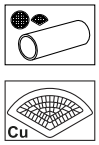
Technical instructions

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

Nominal cross section mm²	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

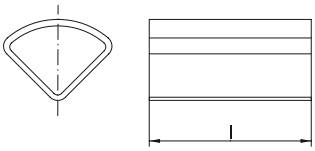
- Tin-plated to protect against corrosion

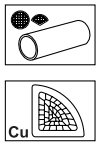
Technical instructions

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

Nominal cross section mm² DIN version	Part No.	Dimension mm für l	Weight 100 pcs. ~kg	Packing unit/pcs
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 mm²	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

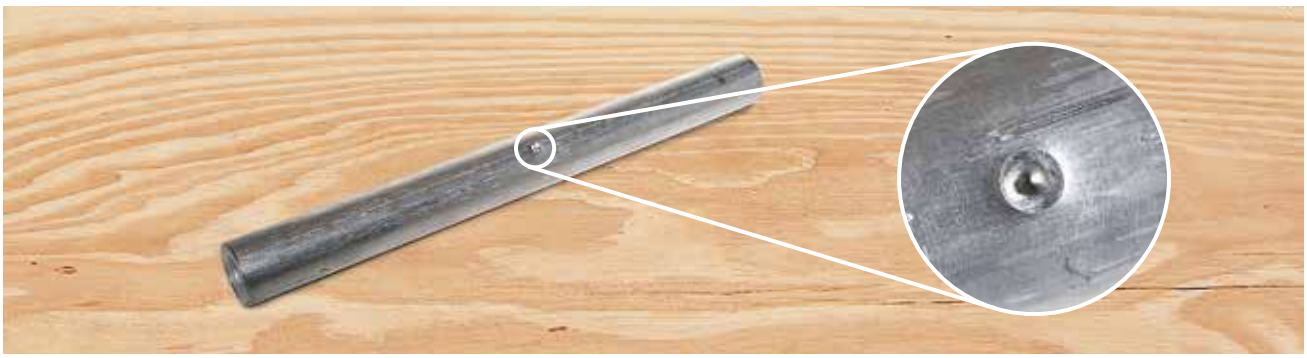
Because we at Klauke have our own manufacturing facilities, our products are always the same consistently high quality. No matter which cable lug or connector you need, the Klauke system guarantees you the best results.

- 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

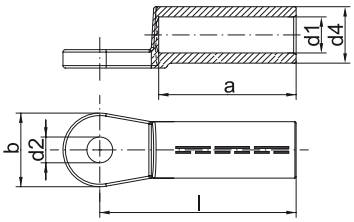
Flexibility in power line construction

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

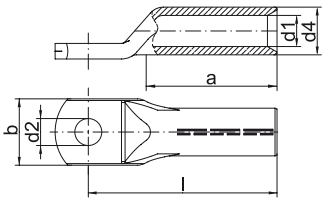
Size of bolt dia.	Part No.	Nominal cross section mm²		Hint	Code	Dimension mm						Number of crimps		Weight 100 pcs. ~kg	Packing unit/pcs
		rm/sm	re/se			a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)		
M 8	**263R8**	16	25	*	12	30	20	5.8	8.4	12	50	4	2	1.20	4
M 10	**263R10**	16	25	*	12	30	20	5.8	10.5	12	50	4	2	1.20	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

See next page

Compression cable lugs to DIN, Al

Size of bolt dia.	Part No.	Nominal cross section mm²		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

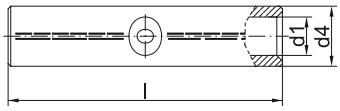
Surface
- Bright

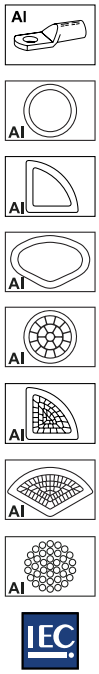
Technical instructions
- Tool: see page 103

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 mm²		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

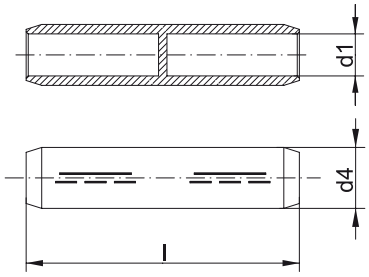
- Tool: see page 103

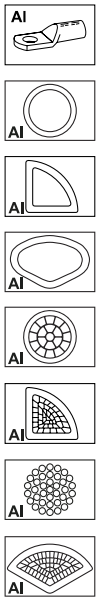
Additional information

- 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 mm²		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

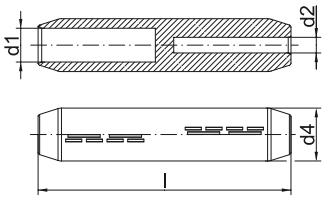
- Tool: see page 103

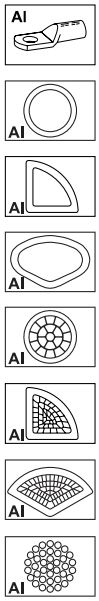
Additional information

- 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 mm²		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

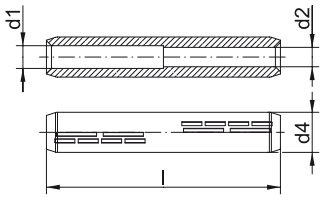
- Tools: see chart page 103

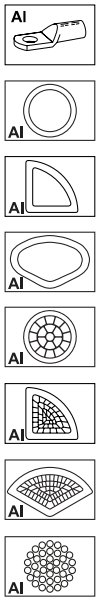
Additional information

- 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 mm² re/se from	rm/sm from	re/se to	rm/sm to	Code	Dimension mm d1	d2	d4	l	Number of crimps Al (7 mm)	Al (wide)	Weight 100 pcs. ~kg	Packing unit/pcs
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

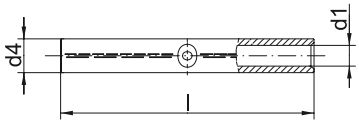
- Tool: see page 103

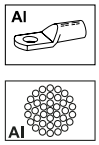
Additional information

- 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 mm²				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

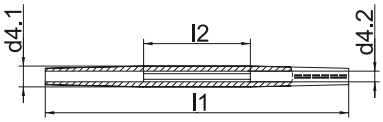
- Tool: see page 103

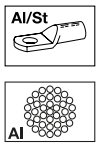
Additional information

- * = not standardised

Nominal cross section mm²	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)

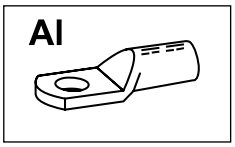
Surface

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

Technical instructions

- Tool: see page 105

Nominal cross section mm²	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



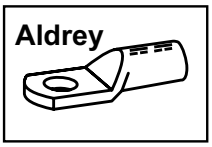
Tool application chart

Compression cable lugs and connectors made from E-Al

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

Tool type	Crimping range corresponds to nominal cross-section mm²	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	⬡

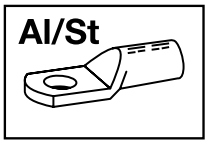
* Not suitable for full-tension connections



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 mm²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
	25 - 95	K18		238	325	⬡
	25 - 185	K22		240	330	⬡
Hand hydraulic crimping tools	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 mm²	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

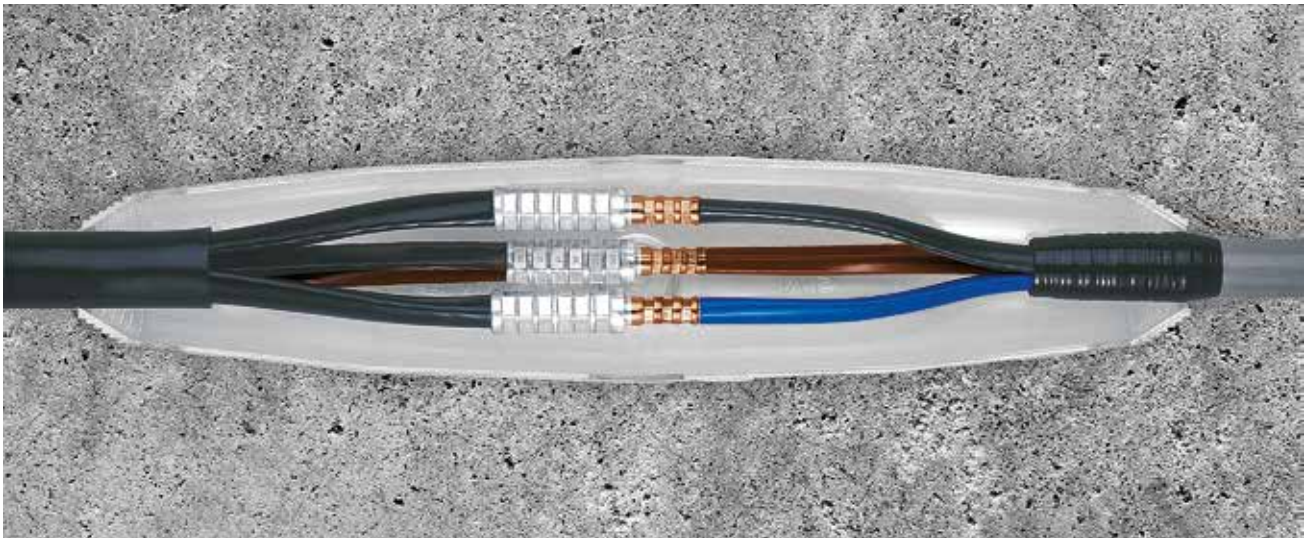
The great thing about the broad Klauke range is: You can select the suitable cable lug for your project and optimally process your choice using the Klauke tools. Everything fitting together.

- 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

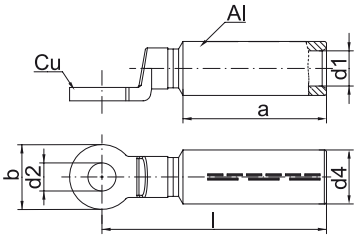
Well connected in every situation

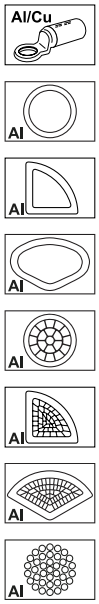
Reduction compression joints enable aluminium conductors to be integrated into copper-containing systems. They connect the two different materials regardless of the physical cable dimensions.

- 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

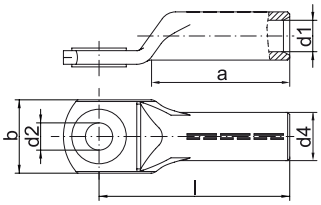
Size of bolt dia.	Part No.	Nominal cross section mm²		Code	Dimension mm						Number of crimps		Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
		rm/sm	re/se		a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)			
M 8	**363R8**	16	25	12	34	24	6.0	8.5	12	68	4	2	4.4	5.9	10
M 10	**363R10**	16	25	12	34	24	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
M8	**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
M8	**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
M8	**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

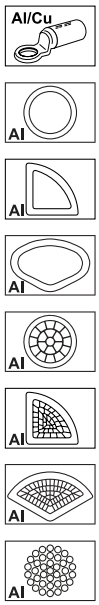
see next page

Compression cable lugs, Al/Cu

Size of bolt dia.	Part No.	Nominal cross section mm² rm/sm	Nominal cross section mm² re/se	Code	Dimension mm a	b	d1	d2	d4	l	Number of crimps Al (7 mm)	Al (wide)	Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
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

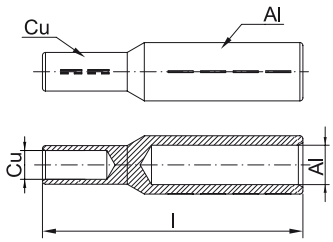
Size of bolt dia.	Part No.	Nominal cross section mm² rm/sm	Nominal cross section mm² re/se	Code	Dimension mm a	b	d1	d2	d4	l	Number of crimps Al (7 mm)	Al (wide)	Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
M 6	**302R6**	10	16	10	32	18	5.0	6.5	10	52	4	2	0.260	1.20	10
M 8	**302R8**	10	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

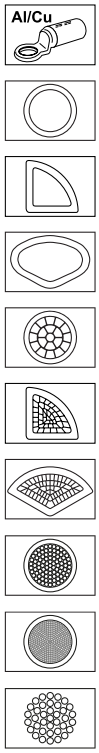
see next page

Compression cable lugs, Al/Cu with Cu eye

Size of bolt dia.	Part No.	Nominal cross section mm²		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 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

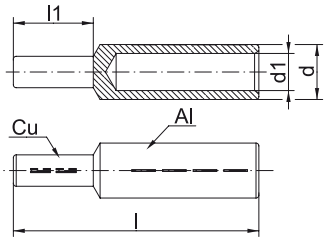
Part No.	Nominal cross section mm²			Dimension mm			Code		Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
	Al rm/sm	Al re/se	Cu re/rm/se/sm	l	Inner dia. Al	Inner dia. Cu	Al	Cu			
322R10	10		10	55.0	5.0	4.5	10	6	0.212	1.100	4
322R16	10		16	61.0	5.0	5.4	10	8	0.714	1.550	4
323R10	16		10	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

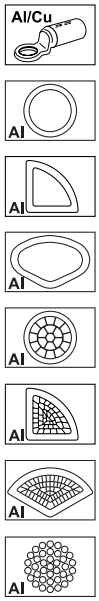
see next page

Compression joints, Al/Cu

Part No.	Nominal cross section mm²			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 mm²		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

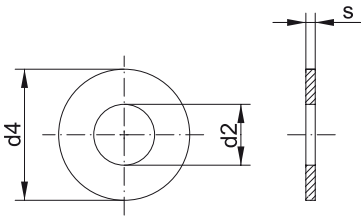
Cupal washers

Characteristics

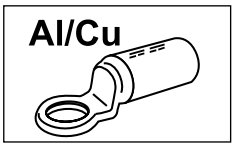
- Flat washer for processing aluminium and copper cable lugs
- For connecting copper conductors to aluminium in dry environments
- For connecting aluminium conductors to copper in dry environments
- Can also be used for connecting tinned aluminium cable lugs in humid environments

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 mm²	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!

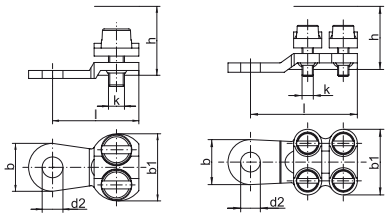
- Connections from 2.5 mm² to 185 mm² nominal cross-section
- No special tool required
- The right screw solution to suit a host of requirements
- For aluminium and copper conductors
- For round and sector shaped conductors
- For conductors and wires

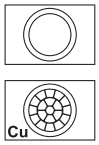
Clamps for continuous supply

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

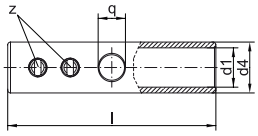
Material
- Copper (ETP)
- Screws: DIN 84 / DIN 933 bronze, F 60

Surface
- Tin-plated to protect against corrosion

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

Nominal cross section mm²	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
	584R10	19.5	22.5	10.5	M5	16	37.0	4	6	3.75	25
25 - 35	**575R8**	18.5	24.0	8.5	M5	16	25.5	2	6	2.50	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
	585R12	21.5	24.0	13.0	M5	16	42.0	4	6	4.50	25
35 - 50	**586R10**	19.0	28.0	10.5	M6	19	46.0	4	8	6.75	25
	586R12	21.0	28.0	13.0	M6	19	47.0	4	8	6.70	25
50 - 70	**587R10**	23.5	31.0	10.5	M6	19	51.0	4	8	9.35	10
	587R12	23.5	31.0	13.0	M6	19	51.0	4	8	9.30	10
70 - 95	**588R10**	24.0	34.0	10.5	M6	25	57.0	4	8	12.00	10
	588R12	24.0	34.0	13.0	M6	25	57.0	4	8	11.85	10
95 - 150	**589R10**	30.0	42.0	10.5	M8	32	61.0	4	20	20.15	10
	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
	590R16	34.0	48.5	17.0	M8	32	68.5	4	20	24.30	5
185 - 300	**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

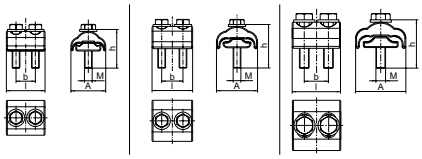
- Tin-plated to protect against corrosion

Technical instructions

- A connection needs to be soldered

Nominal cross section mm²	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 conductorsacc. 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

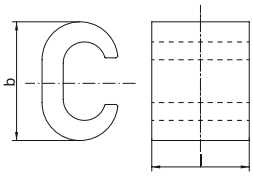
- Bright

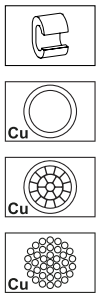
Technical instructions

- 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 mm²	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)

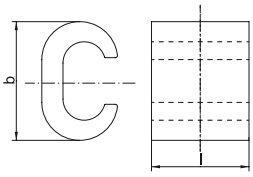
Surface
- Tin-plated to protect against corrosion

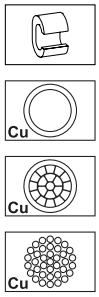
Technical instructions
- Optimum conducting characteristics in combination with compound
- Tool: see page 133

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 mm² 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

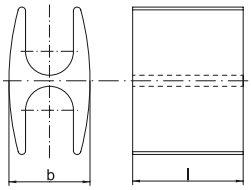
Part No.	Cross section main conductor mm² rm/re		Dimension mm		Weight/pcs. ~kg	Packing unit/pcs
	Main conductor	Tab conductor	b	l		
MCK1010	6 - 10/10	4 - 6/4 - 10	11.8	12	0.460	25
MCK1016	10 - 16/16	4 - 10/4 - 10	19.1	17	1.900	25
MCK1025	16 - 25/25	4 - 10/4 - 10	19.3	17	1.900	25
MCK3535	16 - 25/25 - 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

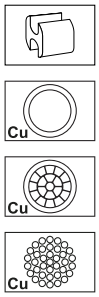
See next page

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

Part No.	Cross section main conductor mm² 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 mm² 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

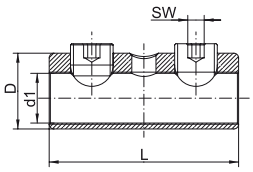
Compound for branch clamps

- 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

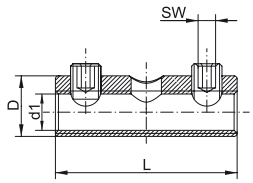
Surface
- Tin-plated to protect against corrosion

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 mm²		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

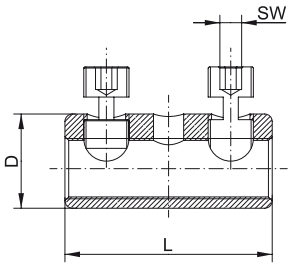
Surface
- Either bright or tin-plated

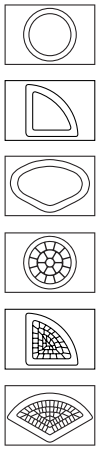
Technical instructions
- Refer to the installation instructions in the technical appendix on page i-8

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

Part No.	Nominal cross section mm²		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

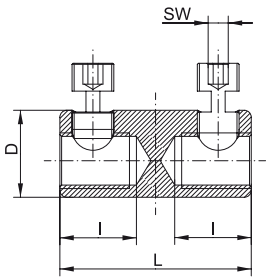
- Refer to the installation instructions in the technical appendix on page i-8

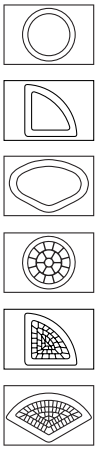
Additional information

- * = 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 mm²				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

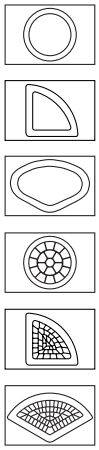
- Refer to the installation instructions in the technical appendix on page i-8

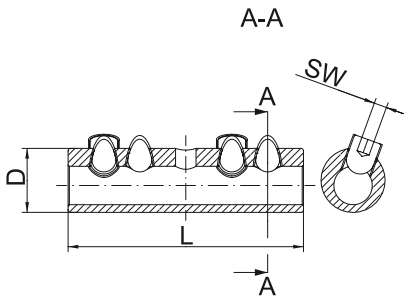
Additional information

- 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 mm²				Hint	Dimension mm				Torque Nm	Weight/ pcs. ~kg	Packing unit/pcs
	re	rm	se	sm		D	l	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

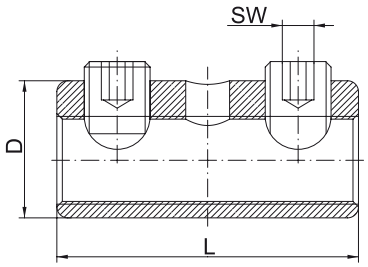
- Refer to the installation instructions in the technical appendix on page i-8

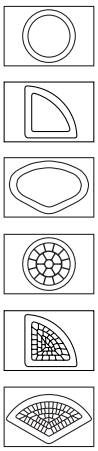
Additional information

- 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 mm²				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

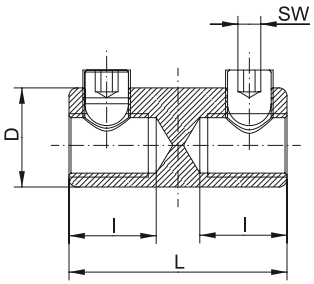
- Refer to the installation instructions in the technical appendix on page i-8

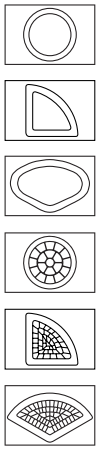
Additional information

- 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 mm²				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

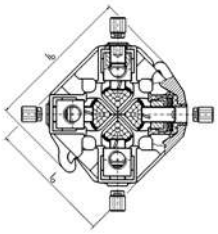
- Refer to the installation instructions in the technical appendix on page i-8

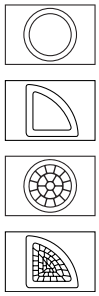
Additional information

- 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 mm²				Dimension mm				Torque Nm	Weight/ pcs. ~kg	Packing unit/pcs
	re	rm	se	sm	D	l	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

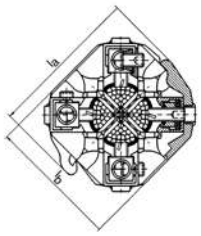
- A mounting instruction is included with every clamp

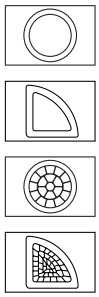
Additional information

- 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

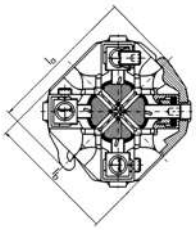
- A mounting instruction is included with every clamp

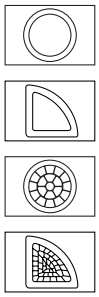
Additional information

- 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

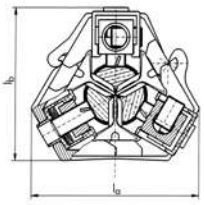
- A mounting instruction is included with every clamp

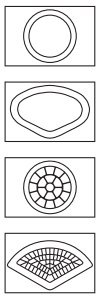
Additional information

- 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

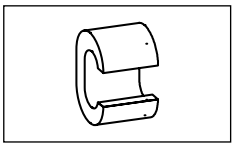
Technical instructions

- 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

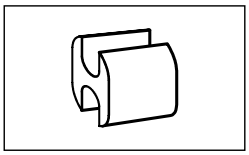
Part No.	Main conductor				Tap conductor		Dimension mm					Thread DIN 13	Weight/ pcs. ~kg	Packing unit/pcs
	se	sm	rm	re	se	sm	la	lb	Width	Bolts Circle dia.	AF			
SKR1503	70 - 150	70 - 150	70 - 150	70 - 150	6 - 70	6 - 95	84	76	45	90	5	M10x1/ M10	0.38	1



Tool application chart

C-Clamps

Tool type	Crimping range corresponds to nominal cross-section mm²	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 mm²	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

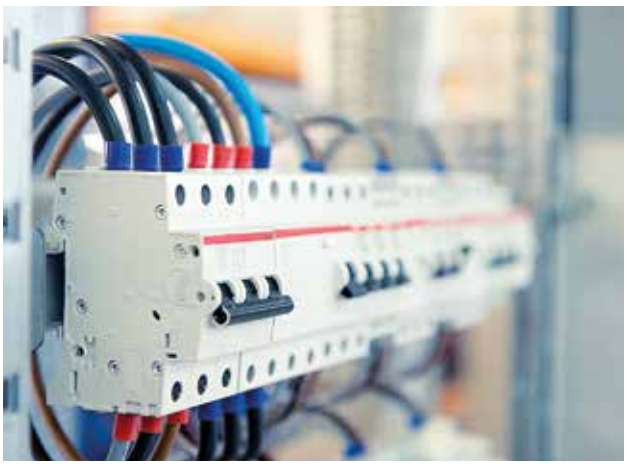
We have to admit: Cable end-sleeves are a simple product. Due to the differing crimp shapes in the range and the high-quality materials used in production, the sleeves are just incredibly good.

- 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



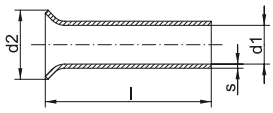
The easy-entry insulation enables fast insertion of conductors with no splicing.

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 mm²	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

See next page

Cable end-sleeves to DIN, Cu

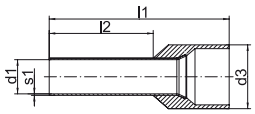
Nominal cross section mm²	Part No.	Hint	Dimension mm				Weight/ 1000 pcs. ~ kg	Packing unit/pcs
			d1	d2	l	s		
4	**748V**	*	2.80	4.0	9	0.20	0.14	1000
	749V		2.80	4.0	9	0.20	0.16	1000
	7410V	*	2.80	4.0	10	0.20	0.17	1000
	7412V		2.80	4.0	12	0.20	0.20	1000
	7415V		2.80	4.0	15	0.20	0.27	1000
	7418V		2.80	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
	7932V		8.5	11.0	32	0.2	2.35	50
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 mm²	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

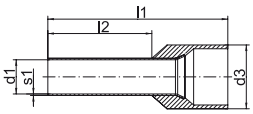
Nominal cross section mm²	Part No.	Colour	Hint	Dimension mm					Weight/ 1000 pcs. ~ kg	Packing unit/ pcs
				d1	d3	l1	l2	s1		
0.5	**4696**			1.0	3.1	12	6	0.15	0.070	1000
	4698			1.0	3.1	14	8	0.15	0.070	1000
	GR4698		***	1.0	3.1	14	8	0.15	0.070	500
	46910			1.0	3.1	16	10	0.15	0.085	1000
0.75	**4706**			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
	47012			1.2	3.3	18	12	0.15	0.105	1000
1	**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
	47110			1.4	3.5	16	10	0.15	0.120	1000
	47112			1.4	3.5	18	12	0.15	0.125	1000
1.5	**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
	47212			1.7	4.0	18	12	0.15	0.150	1000
	47218			1.7	4.0	24	18	0.15	0.190	1000
2.5	**4738**			2.2	4.7	14	8	0.15	0.150	1000
	GR4738		***	2.2	4.7	14	8	0.15	0.150	500
	47312			2.2	4.7	18	12	0.15	0.200	1000
	47318			2.2	4.7	24	18	0.15	0.250	1000
4	**47410**			2.8	5.4	17	10	0.20	0.210	100
	47412			2.8	5.4	20	12	0.20	0.250	100
	47418			2.8	5.4	26	18	0.20	0.320	100
6	**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 mm²	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

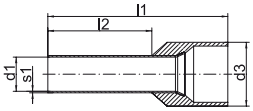
Nominal cross section mm²	Part No.	Colour	Hint	Dimension mm					Weight/ 1000 pcs. ~ kg	Packing unit/ pcs
				d1	d3	l1	l2	s1		
0.14	**166GR**		*	0.7	2.5	10.0	6	0.15	0.035	1000
	166GRL		*	0.7	2.5	12.0	8	0.15	0.040	1000
0.25	**167H**		*	0.8	2.5	10.0	6	0.15	0.045	1000
	167HL		*	0.8	2.5	12.0	8	0.15	0.050	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 mm²	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
	172RL			1.7	4.0	24.0	18	0.15	0.190	1000
2.5	**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	**180O**			10.3	16.0	36.0	20	0.30	3.300	50
	180OL			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

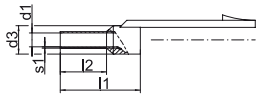
Nominal cross section mm²	Part No.	Colour	Hint	Dimension mm					Weight/ 1000 pcs. ~ kg	Packing unit/ pcs
				d1	d3	l1	l2	s1		
0.14	**1666**		*	0.7	2.5	10.0	6	0.15	0.035	1000
	1668		*	0.7	2.5	12.0	8	0.15	0.040	1000
0.25	**1676**		*	0.8	2.5	10.0	6	0.15	0.045	1000
	1678		*	0.8	2.5	12.0	8	0.15	0.050	1000
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
1.5	**1726**			1.7	4.0	12.0	6	0.15	0.100	1000
	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 mm²	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

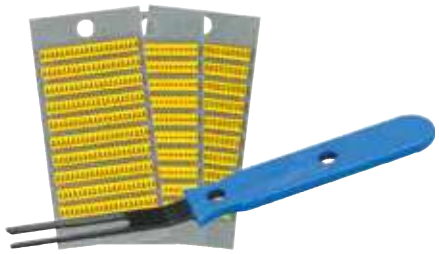
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 148

Nominal cross section mm²	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

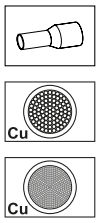
- Differing numbers / letters in the designation rings
- Packaging unit in booklet format, 200 of each symbol
- Insert fork A300 for inserting in the designation ring on the insulated cable end-sleeves with tabs

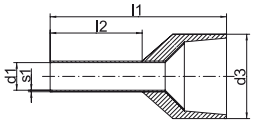
Additional information

- * = 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

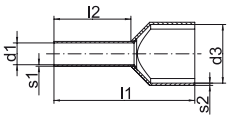
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 148

Nominal cross section mm²	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

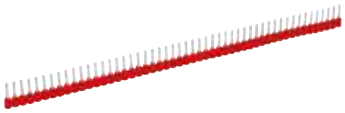
- Tin-plated to protect against corrosion

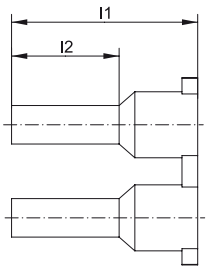
Technical instructions

- Tool: see page 150

Nominal cross section mm²	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 mm²	Part No.	Colour	Dimension mm l1	Dimension mm l2	Weight/ 1000 pcs. ~ kg	Packing unit/pcs
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

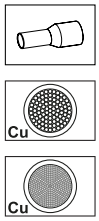
- Copper (EN13600)
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm²	Part No.	Colour	Dimension mm l1	Dimension mm l2	Weight/ 1000 pcs. ~ kg	Packing unit/pcs
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

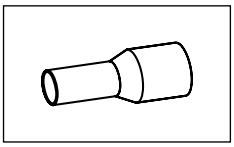
Material

- Copper (EN13600)
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm²	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

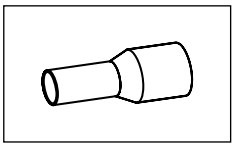


Tool application chart

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 mm²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0.08 - 10	K303		214		◇
	0.08 - 16	K304K		214		◇
		K306K		215		⬡
	0.14 - 2.5	K1		210		▱
		K48		210		▱
	0.14 - 10	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	⌓

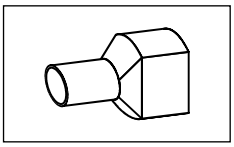


Tool application chart

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 mm²	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 mm²	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 mm^2 to 6 mm^2
- 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 ander 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.

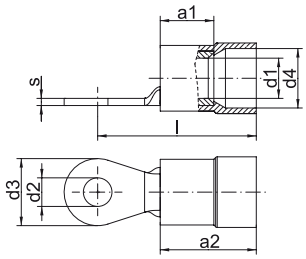
- Broad range of models
- All-purpose
- Also as standardised connectors with various tab widths
- Available with strain relief
- Fully-insulated receptacles
- Grooved profile and additional copper ring in the insulation area for higher stresses

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

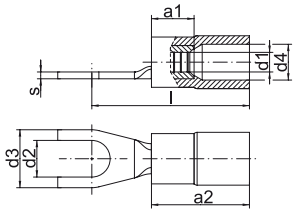
Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 173

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

Nominal cross section mm²	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

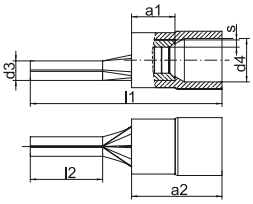
- Tool: see page 173

Additional information

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

Nominal cross section mm²	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
	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
1.5 - 2.5	4.0 - 2.5	**630C4**			5	11.5	2.3	4.3	6.8	5.1	18.5	0.8	0.080	100
	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
	5.0 - 6	**650C5**			6	12.5	3.6	5.3	10.0	6.5	21.5	1.0	0.160	100
4 - 6	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

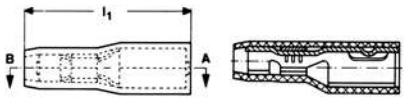
- Tool: see page 173

Additional information

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

Nominal cross section mm²	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
1.5 - 2.5	2.5	**710**			5	11.5	1.9	5.1	23.0	10.0	0.065	100
		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
4 - 6	6	**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

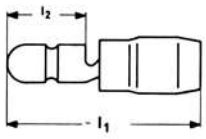
Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 173

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

Nominal cross section mm²	Part No.	Colour	Dimension mm		Weight/pcs. ~kg	Packing unit/pcs
			Pin dia.	l1		
0.5 - 1	**920**		4	22	0.060	100
1.5 - 2.5	**930**		5	22	0.120	100
4 - 6	**950**		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 mm²	Part No.	Colour	Dimension mm			Weight/pcs. ~kg	Packing unit/pcs
			Pin dia.	l1	l2		
0.5 - 1	**1020**		4	22	9	0.060	100
1.5 - 2.5	**1030**		5	22	9	0.075	100
4 - 6	**1050**		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 mm²	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

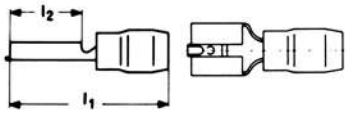
Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 173

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

Nominal cross section mm²	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

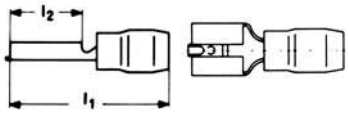
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 173

Nominal cross section mm²	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**	red	0.5	2.8	17.5	8.0	PVC	0.035	100
		8201A	red	0.8	2.8	17.5	8.0	PVC	0.045	100
		8202	red	0.5	4.8	18.0	6.0	PVC	0.065	100
	4.8 - 1	**8203**	red	0.8	4.8	18.0	6.0	PVC	0.065	100
	6.3 - 1	**720**	red	0.8	6.3	22.0	7.5	PVC	0.090	100
		7208	red	0.8	7.7	25.0	9.5	PVC	0.110	100
1.5 - 2.5		**8301**	blue	0.5	2.8	18.0	8.0	PA	0.050	100
		8301A	blue	0.8	2.8	18.0	8.0	PA	0.060	100
		8302	blue	0.5	4.8	18.0	6.0	PVC	0.070	100
	4.8 - 2.5	**8303**	blue	0.8	4.8	18.0	6.0	PVC	0.070	100
	6.3 - 2.5	**730**	blue	0.8	6.3	21.0	7.4	PVC	0.090	100
		7308	blue	0.8	7.7	25.0	9.5	PVC	0.115	100
4 - 6		**8503**	yellow	0.8	4.8	23.0	7.5	PA	0.138	100
	6.3 - 6	**750**	yellow	0.8	6.3	21.0	7.5	PVC	0.100	100
		7509	yellow	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

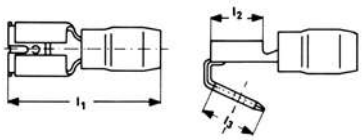
Material
- Bronze (CuSnZn)
- Insulation sleeve: PVC

Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 173

Nominal cross section mm²	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

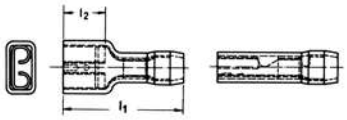
Material
- Brass (CuZn)
- Insulation sleeve: PVC

Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 173

Nominal cross section mm²	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

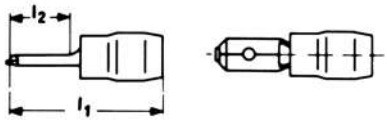
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 173

Nominal cross section mm²	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

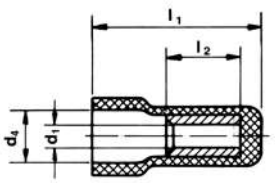
Material
- Brass (CuZn)
- Insulation sleeve: PVC/PA

Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 173

Nominal cross section mm²	Part No.	Colour	Tab Thickn.	Tab Width	Dimension mm		Insulation material	Weight/pcs. ~kg	Packing unit/pcs
					l1	l2			
0.5 - 1	**8201C**	red	0.5	2.8	22.0	11.5	PA	0.040	100
	8201B	red	0.8	2.8	14.6	5.5	PVC	0.060	100
	8202B	red	0.5	4.8	22.0	11.5	PA	0.070	100
	8203B	red	0.8	4.8	22.0	11.5	PA	0.070	100
	820	red	0.8	6.3	22.0	8.0	PVC	0.060	100
1.5 - 2.5	**8302B**	blue	0.5	4.8	22.0	11.5	PA	0.070	100
	8303B	blue	0.8	4.8	22.0	11.5	PA	0.070	100
	830	blue	0.8	6.3	22.0	8.0	PVC	0.065	100
4 - 6	**8502B**	yellow	0.5	4.8	24.5	10.5	PA	0.120	100
	8503B	yellow	0.8	4.8	24.5	10.5	PA	0.120	100
	850	yellow	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

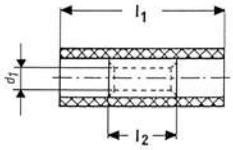
Material
- Copper (ETP)
- Insulation sleeve: PA

Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 173

Nominal cross section mm²	Part No.	Colour	Dimension mm				Weight/pcs. ~kg	Packing unit/pcs
			d1	d2	l1	l2		
1.5 - 2.5	**1130**	blue	2.3	5.2	16	7	0.05	100
4 - 6	**1150**	yellow	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

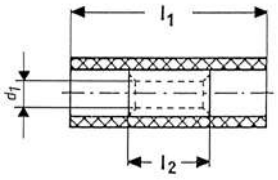
Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 173

Additional information
- 0.1 - 0.4 mm² not CSA-tested

Nominal cross section mm²	Part No.	Colour	Dimension mm			Weight/pcs. ~kg	Packing unit/pcs
			d1	l1	l2		
0.1 - 0.4	**669**		1.2	20	12	0.030	100
0.5 - 1	**670**		1.6	25	15	0.090	100
1.5 - 2.5	**680**		2.3	25	15	0.115	100
4 - 6	**700**		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

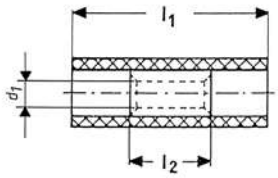
Material
- Copper (ETP)
- Insulation sleeve: PE

Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 173

Nominal cross section mm²	Part No.	Colour	Dimension mm			Weight/pcs. ~kg	Packing unit/pcs
			d1	l1	l2		
0.5 - 1	**670WS**		1.6	36	15	0.12	100
1.5 - 2.5	**680WS**		2.3	36	15	0.15	100
4 - 6	**700WS**		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 requiredInsulation sleeve halogen-free
- Insulation sleeve halogen-free

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

Material
- Copper (ETP)
- Insulation sleeve: PA

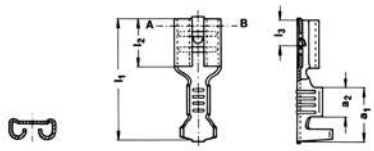
Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 173

Additional information
- 0.1 - 0.4 mm² not CSA-tested

Nominal cross section mm²	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)

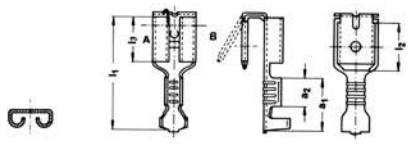
Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 174

Additional information
- * = nickel-plated steel version also available, Part Number appendix “ST“

Nominal cross section mm²	Nominal size to DIN	Part No.	Tab Thickn.	Tab Width	Dimension mm a1	a2	l1	l2	l3	s	Weight/ pcs. ~kg	Packing unit/pcs
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
	6.3 - 1	**1720**	0.8	6.3	8.5	4.5	19.0	7.4	4.0	0.45	0.085	100
1.5 - 2.5	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)

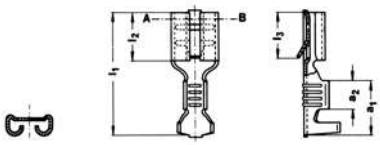
Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 174

Additional information
- * = corresponds to DIN 46345

Nominal cross section mm²	Part No.	Tab Thickn.	Tab Width	Hint	Dimension mm a1	a2	l1	l2	l3	s	Weight/ pcs. ~kg	Packing unit/pcs
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

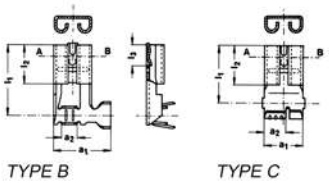
Material
- Brass (CuZn)

Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 174

Nominal cross section mm²	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

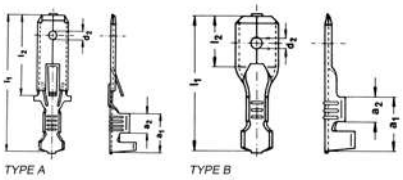
Material
- Brass (CuZn)

Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 174

Nominal cross section mm²	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)

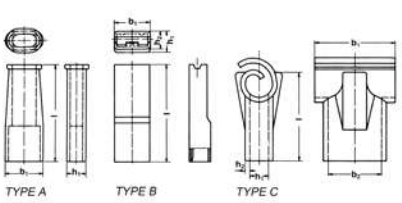
Surface
- Tin-plated to protect against corrosion

Technical instructions
- Tool: see page 174

Additional information
- * = dimensions in the plug sector to DIN 46244

Nominal cross section mm²	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 mm²	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

see next page

Insulation sleeves

Nominal cross section mm²	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		**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

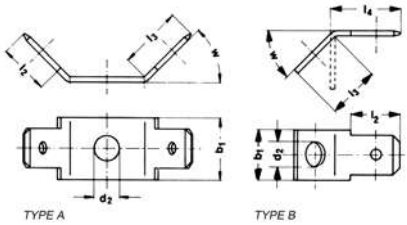
- To DIN 46342, part 1 and similar versions
- Dimensions in the plug sector to DIN 46244

Material

- Brass (CuZn)

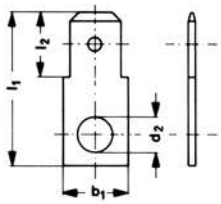
Surface

- 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

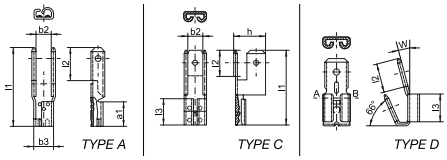
- Brass (CuZn)

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



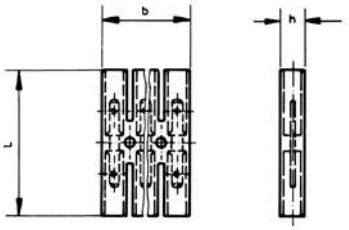
Characteristics
- Dimensions in the plug sector to DIN 46244

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

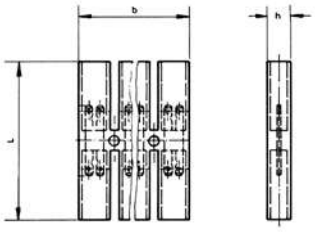


No additional insulation required

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



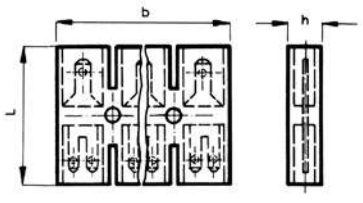
▸ No additional insulation required

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



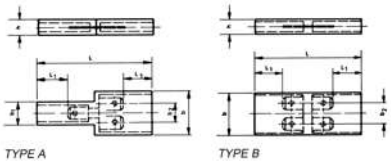
▸ No additional insulation required

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

Flexible circuit distributor, tab width 6.3 mm

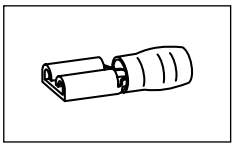


▸ **No additional insulation required**

Characteristics

- With tabs 6.3 x 0.8 mm

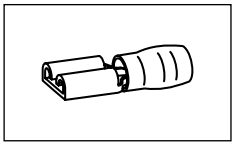
Part No.	Tab Thickn.	Tab Width	Typ	Dimension mm							Insulation material	Weight/ pcs. ~kg	Packing unit/pcs
				b	b1	b2	l	l1	h	s			
816	0.8	6.3	A	21	11.3	9	53	15	7.5	0.8	PVC	0.60	10
817	0.8	6.3	B	20	11.3	9	51	13	7.0	0.8	PVC	0.65	10



Tool application chart

Insulated cable connections

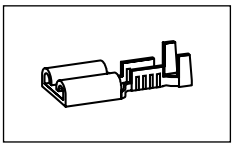
Tool type	Crimping range corresponds to nominal cross-section mm²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0,1 - 1	K80		218		⬭
	0,5 - 6	K82		219		⬭
	0,5 - 6	K82T		220		⬭
Mechanical, electrical, pneumatic crimping 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

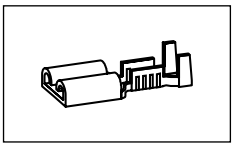
Tool type	Crimping range corresponds to nominal cross-section mm²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	0,1 - 16	K50		235	313	⬭
		EK50ML		244	313	⬭
	0,5 - 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 mm²	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 mm²	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.

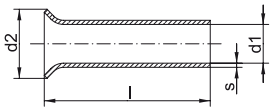
- Cable-end sleeves with and without insulation always to hand
- Practical chute opening for easy removal
- Stackable box
- Tough and impact-proof plastic

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



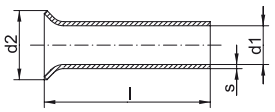
▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item				Part No.
Pocket box with cable end-sleeves 0.25 - 1 mm² to DIN 46228 part 1				**ST23B**
Scope of supply	Description	l mm	Quantity	Page
ST23L	Pocket box		1	
695V	Cable end-sleeve, 0.25 mm², 5 mm	5	1000	136
705V	Cable end-sleeve, 0.34 mm², 5 mm, Cu tinned	5	1000	136
716V	Cable end-sleeve, 0.75 mm², 6 mm	6	1000	136
71S6V	Cable end-sleeve, 0.5 mm², 6 mm, Cu tinned	6	500	136
72S6V	Cable end-sleeve, 1.0 mm², 6 mm	6	500	136

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



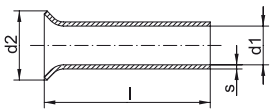
▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item				Part No.
Pocket box with cable end-sleeves 0.5 - 2.5 mm² to DIN 46228 part 1				**ST21B**
Scope of supply	Description	l mm	Quantity	Page
ST21L	Pocket box		1	
71S6V	Cable end-sleeve, 0.5 mm², 6 mm, Cu tinned	6	1000	136
716V	Cable end-sleeve, 0.75 mm², 6 mm	6	500	136
72S6V	Cable end-sleeve, 1.0 mm², 6 mm	6	500	136
727V	Cable end-sleeve, 1.5 mm², 7 mm	7	500	136
737V	Cable end-sleeve, 2.5 mm², 7 mm	7	500	136

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



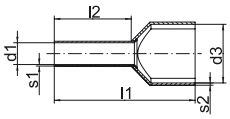
▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item				Part No.
Pocket box with cable end-sleeves 4 - 16 mm² to DIN 46228 part 1				**ST22B**
Scope of supply	Description	l mm	Quantity	Page
ST22L	Pocket box		1	
749V	Cable end-sleeve, 4 mm², 9 mm	9	200	137
7512V	Cable end-sleeve, 6 mm², 12 mm, Cu tinned	12	100	137
7612V	Cable end-sleeve, 10 mm², 12 mm, Cu tinned	12	70	137
7712V	Cable end-sleeve, 16 mm², 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



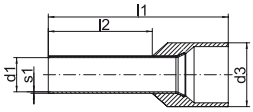
▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with twin cable end-sleeves 2 x 0.75 - 2 x 2.5 mm²					**ST15B**
Scope of supply	Colour	Description	l2 mm	Quantity	Page
ST15L		Pocket box		1	
8708		Insl. twin cable end-sleeve, 2 x 0.75 mm²	8	50	145
8718		Insl. twin cable end-sleeve, 2 x 1 mm²	8	50	145
8728		Insl. twin cable end-sleeve, 2 x 1.5 mm²	8	50	145
87310		Insl. twin cable end-sleeve, 2 x 2.5 mm²	10	50	145

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



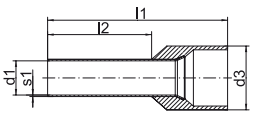
▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 0.5 - 2.5 mm², 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 mm², 14 mm	8	50	140
170W		Insl. cable end-sleeve, 0.75 mm², 14.6 mm	8	100	141
171G		Insl. cable end-sleeve, 1 mm², 14.6 mm	8	100	141
172RO		Insl. cable end-sleeve, 1.5 mm², 14.6 mm	8	100	141
173B		Insl. cable end-sleeve, 2.5 mm², 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



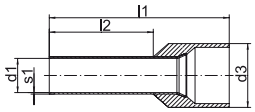
▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 0.5 - 2.5 mm², 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 mm², 14 mm	8	50	139
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	8	100	139
4718		Insl. cable end-sleeve, 1 mm², 14 mm	8	100	139
4728		Insl. cable end-sleeve, 1.5 mm², 14 mm	8	100	139
4738		Insl. cable end-sleeve, 2.5 mm², 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



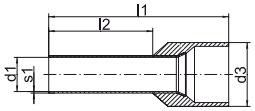
▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 0.5 - 2.5 mm², 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 mm², 13 mm	8	50	142
1708		Insl. cable end-sleeve, 0.75 mm², 13.5 mm	6	100	142
1718		Insl. cable end-sleeve, 1 mm², 13.5 mm	8	100	142
1728		Insl. cable end-sleeve, 1.5 mm², 13.5 mm	8	100	142
1738		Insl. cable end-sleeve, 2.5 mm², 14.5 mm	8	50	142

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



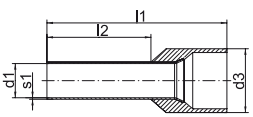
▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 4 - 16 mm², DIN 46228 Part 4					**ST12B**
Scope of supply	Colour	Description	l2 mm	Quantity	Page
ST12L		Pocket box		1	
47410		Insl. cable end-sleeve, 4 mm², 17 mm	10	50	139
47512		Insl. cable end-sleeve, 6 mm², 20 mm	12	20	139
47612		Insl. cable end-sleeve, 10 mm², 22 mm	12	20	139
47712		Insl. cable end-sleeve, 16 mm², 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



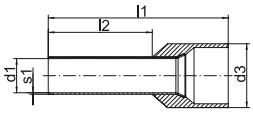
▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 4 - 16 mm², 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 mm², 16.5 mm	10	50	141
175S		Insl. cable end-sleeve, 6 mm², 20 mm	12	20	141
176E		Insl. cable end-sleeve, 10 mm², 21.5 mm	12	20	141
177GR		Insl. cable end-sleeve, 16 mm², 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



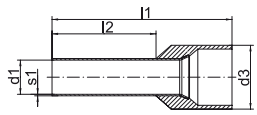
▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 4 - 16 mm², 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 mm², 16.5 mm	10	50	142
17512		Insl. cable end-sleeve, 6 mm², 20 mm	18	20	142
17612		Insl. cable end-sleeve, 10 mm², 21.5 mm	12	20	143
17712		Insl. cable end-sleeve, 16 mm², 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



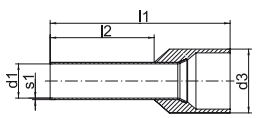
▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 0.25 - 1 mm², 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 mm², 10.4 mm	6	30	140
168T		Insl. cable end-sleeve, 0.34 mm², 10.4 mm	6	30	140
169O		Insl. cable end-sleeve, 0.5 mm², 14 mm	8	30	140
170W		Insl. cable end-sleeve, 0.75 mm², 14.6 mm	8	30	141
171G		Insl. cable end-sleeve, 1 mm², 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



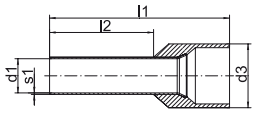
▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item					Part No.
Pocket box with insl. cable end-sleeves 0.25 - 1 mm², 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 mm², 10.4 mm	6	30	140
168T		Insl. cable end-sleeve, 0.34 mm², 10.4 mm	6	30	140
4698		Insl. Cable end-sleeve, 0.5 mm², 14 mm	8	30	139
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	8	30	139
4718		Insl. cable end-sleeve, 1 mm², 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

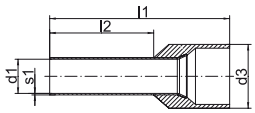
Characteristics

- Stackable and resealable

Item	Part No.
Pocket box with insl. cable end-sleeves 0.25 - 1 mm², 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 mm², 11 mm	6	30	142
1686		Insl. cable end-sleeve, 0.34 mm², 11 mm	6	30	142
1698		Insl. cable end-sleeve, 0.5 mm², 13 mm	6	30	142
1708		Insl. cable end-sleeve, 0.75 mm², 13.5 mm	8	30	142
1718		Insl. cable end-sleeve, 1 mm², 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

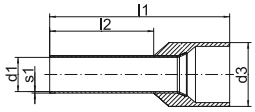
Characteristics

- Stackable and resealable

Item	Part No.
Pocket box with insulated cable end-sleeves 0.5 mm² to DIN 46228 part 4	**GR4698DO**

Scope of supply	Colour	Description	l2 mm	Quantity	Page
4698		Insl. Cable end-sleeve, 0.5 mm², 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

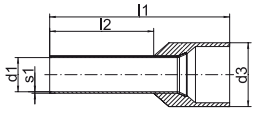
Characteristics

- Stackable and resealable

Item	Part No.
Pocket box with insulated cable end-sleeves 0.75 mm² DIN 46228 part 4	**GR4708DO**

Scope of supply	Colour	Description	l2 mm	Quantity	Page
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	8	1000	139

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



▸ Pocket box made from impact-resistant plastic

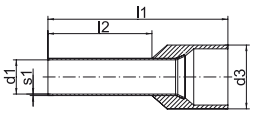
Characteristics

- Stackable and resealable

Item	Part No.
Pocket box with insulated cable end-sleeves 1 mm² DIN 46228 part 4	**GR4718DO**

Scope of supply	Colour	Description	l2 mm	Quantity	Page
4718		Insl. cable end-sleeve, 1 mm², 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

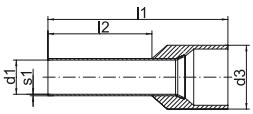
Characteristics

- Stackable and resealable

Item	Part No.
Pocket box with insulated cable end-sleeves 1.5 mm² DIN 46228 part 4	**GR4728DO**

Scope of supply	Colour	Description	l2 mm	Quantity	Page
4728	■	Insl. cable end-sleeve, 1.5 mm², 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 mm² DIN 46228 part 4	**GR4738DO**

Scope of supply	Colour	Description	l2 mm	Quantity	Page
4738	■	Insl. cable end-sleeve, 2.5 mm², 14 mm	8	1000	139

ST 5 L assortment of empty pocket boxes

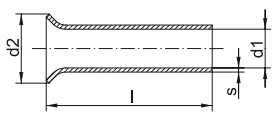
▸ Pocket box made from impact-resistant plastic

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

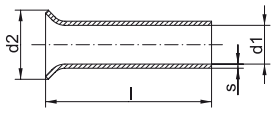


▸ Hammer-tone finished assortment box
▸ Ideal for workshop equipment

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 mm²	6	1	210
716V	Cable end-sleeve, 0.75 mm², 6 mm	6	1000	136
72S6V	Cable end-sleeve, 1.0 mm², 6 mm	6	1000	136
727V	Cable end-sleeve, 1.5 mm², 7 mm	7	1000	136
737V	Cable end-sleeve, 2.5 mm², 7 mm	7	1000	136

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

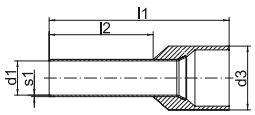


- Broad cable end-sleeve assortment appropriate crimping tool
- Hammer-tone finished assortment box
- Ideal for workshop equipment

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 mm²	8	1	209
716V	Cable end-sleeve, 0.75 mm², 6 mm	6	1000	136
72S6V	Cable end-sleeve, 1.0 mm², 6 mm	6	1000	136
727V	Cable end-sleeve, 1.5 mm², 7 mm	6	1000	136
737V	Cable end-sleeve, 2.5 mm², 7 mm	7	500	136
749V	Cable end-sleeve, 4 mm², 9 mm	9	500	137
7510V	Cable end-sleeve, 6 mm², 10 mm	10	500	137
7618V	Cable end-sleeve, 10 mm², 18 mm	18	250	137
7718V	Cable end-sleeve, 16 mm², 18 mm	18	150	137

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

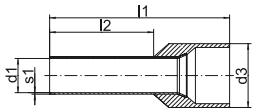


- Four of the most important insulated cable end-sleeve types in a steel carrying case including an appropriate crimping tool
- Hammer-tone finished assortment box
- Ideal for workshop equipment

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 mm²	8	1	210
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	8	300	139
4718		Insl. cable end-sleeve, 1 mm², 14 mm	8	300	139
4728		Insl. cable end-sleeve, 1.5 mm², 14 mm	8	300	139
4738		Insl. cable end-sleeve, 2.5 mm², 14 mm		200	139

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

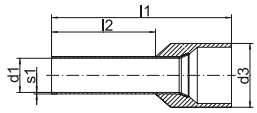


- Flexible use due to large cross-sectional range
- Hammer-tone finished assortment box
- Ideal for workshop equipment

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 mm²		1	209
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	8	200	139
4718		Insl. cable end-sleeve, 1 mm², 14 mm	8	200	139
4728		Insl. cable end-sleeve, 1.5 mm², 14 mm	8	200	139
4738		Insl. cable end-sleeve, 2.5 mm², 14 mm	8	200	139
47410		Insl. cable end-sleeve, 4 mm², 17 mm	10	100	139
47512		Insl. cable end-sleeve, 6 mm², 20 mm	12	100	139
47618		Insl. cable end-sleeve, 10 mm², 28 mm	18	100	139
47718		Insl. cable end-sleeve, 16 mm², 28 mm	18	50	140

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

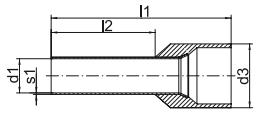


- With everything needed for conductor preparation
- The exact-shaped foam inlays of the case prevent the contents slipping even with severe impacts

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 mm²		1	525
K303		Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 10 mm²	8	1	214
4698		Insl. Cable end-sleeve, 0.5 mm², 14 mm	8	400	139
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	8	400	139
4718		Insl. cable end-sleeve, 1 mm², 14 mm	8	400	139
4728		Insl. cable end-sleeve, 1.5 mm², 14 mm	8	400	139
4738		Insl. cable end-sleeve, 2.5 mm², 14 mm	10	200	139
47410		Insl. cable end-sleeve, 4 mm², 17 mm	12	200	139
47512		Insl. cable end-sleeve, 6 mm², 20 mm	12	100	139
47612		Insl. cable end-sleeve, 10 mm², 22 mm		100	139

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

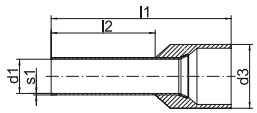


- With everything needed for conductor preparation
- The exact-shaped foam inlays of the case prevent the contents slipping even with severe impacts

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 mm²		1	214
4698		Insl. Cable end-sleeve, 0.5 mm², 14 mm	8	100	139
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	8	100	139
4718		Insl. cable end-sleeve, 1 mm², 14 mm	8	100	139
4728		Insl. cable end-sleeve, 1.5 mm², 14 mm	8	100	139
4738		Insl. cable end-sleeve, 2.5 mm², 14 mm	10	50	139
47410		Insl. cable end-sleeve, 4 mm², 17 mm	12	50	139
47512		Insl. cable end-sleeve, 6 mm², 20 mm	18	30	139
47612		Insl. cable end-sleeve, 10 mm², 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 mm²		1	525
K32		TWIST-it Crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm²		1	211
4698		Insl. cable end-sleeve, 0.5 mm², 14 mm	8	500	139
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	8	500	139
4718		Insl. cable end-sleeve, 1 mm², 14 mm	8	400	139
4728		Insl. cable end-sleeve, 1.5 mm², 14 mm	8	400	139
4738		Insl. cable end-sleeve, 2.5 mm², 14 mm	10	300	139
47410		Insl. cable end-sleeve, 4 mm², 17 mm	12	100	139
47512		Insl. cable end-sleeve, 6 mm², 20 mm	18	100	139
47612		Insl. cable end-sleeve, 10 mm², 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 mm²	1	229
1R6	Tubular cable lug without inspection hole, 6 mm², M6, Cu tinned	25	14
1R8	Tubular cable lug without inspection hole, 6 mm², M8, Cu tinned	25	14
2R6	Tubular cable lug without inspection hole, 10 mm², M6, Cu tinned	25	14
2R8	Tubular cable lug without inspection hole, 10 mm², M8, Cu tinned	25	14
3R8	Tubular cable lug without inspection hole, 16 mm², M8, Cu tinned	25	14
3R10	Tubular cable lug without inspection hole, 16 mm², M10, Cu tinned	25	14
4R8	Tubular cable lug without inspection hole, 25 mm², M8, Cu tinned	25	14
4R10	Tubular cable lug without inspection hole, 25 mm², M10, Cu tinned	25	14
5R8	Tubular cable lug without inspection hole, 35 mm², M8, Cu tinned	20	14
5R10	Tubular cable lug without inspection hole, 35 mm², M10, Cu tinned	20	14
6R10	Tubular cable lug without inspection hole, 50 mm², M10, Cu tinned	20	15
6R12	Tubular cable lug without inspection hole, 50 mm², 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 mm²	1	230
101R5	Compression cable lug, DIN 46235, 6 mm², M5, Cu tinned	50	56
101R6	Compression cable lug, DIN 46235, 6 mm², M6, Cu tinned	50	56
102R5	Compression cable lug, DIN 46235, 10 mm², M5, Cu tinned	50	56
102R6	Compression cable lug, DIN 46235, 10 mm², M6, Cu tinned	50	56
103R8	Compression cable lug, DIN 46235, 16 mm², M8, Cu tinned	25	56
103R10	Compression cable lug, DIN 46235, 16 mm², M10, Cu tinned	25	56
104R8	Compression cable lug, DIN 46235, 25 mm², M8, Cu tinned	25	56
104R10	Compression cable lug, DIN 46235, 25 mm², M10, Cu tinned	25	56
105R8	Compression cable lug, DIN 46235, 35 mm², M8, Cu tinned	20	56
105R10	Compression cable lug, DIN 46235, 35 mm², M10, Cu tinned	20	56
106R10	Compression cable lug, DIN 46235, 50 mm², M10, Cu tinned	15	57
106R12	Compression cable lug, DIN 46235, 50 mm², 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 mm²	50	154
6205		Insl. solderless terminal M5, 0.5 - 1 mm²	50	154
6206		Insl. solderless terminal M6, 0.5 - 1 mm²	50	154
6304		Insl. solderless terminal M4, 1.5 - 2.5 mm²	50	154
6305		Insl. solderless terminal M5, 1.5 - 2.5 mm²	50	154
6306		Insl. solderless terminal M6, 1.5 - 2.5 mm²	50	154
670		Insl. butt connector, 0.5 - 1 mm²	50	163
680		Insl. butt connector, 1.5 - 2.5 mm²	50	163
705		Insl. pin terminal, 0.5 - 1 mm², 22 mm	50	156
710		Insl. pin terminal, 1.5 - 2.5 mm², 23 mm	50	156
730		Insl. receptacle 6.3 x 0.8 mm, 1.5 - 2.5 mm²	50	159
830		Insl. tab 6.3 x 0.8 mm, 1.5 - 2.5 mm²	50	162
620C4		Insl. solderless terminal M4, 0.5 - 1 mm²	50	155
630C4		Insl. solderless terminal M4, 1.5 - 2.5 mm²	50	155
715		Insl. pin terminal, 4 - 6 mm², 26 mm	25	156
700		Insl. butt connector, 4 - 6 mm²	25	163
6505		Insl. solderless terminal M5, 4 - 6 mm²	25	154
6506		Insl. solderless terminal M6, 4 - 6 mm²	25	154
650C6		Insl. solderless terminal M6, 4 - 6 mm²	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 mm²	1	525
K82A		Crimping tool for insulated cable connections 0.5 - 6 mm²	1	219
6204		Insl. solderless terminal M4, 0.5 - 1 mm²	50	154
6205		Insl. solderless terminal M5, 0.5 - 1 mm²	50	154
670		Insl. butt connector, 0.5 - 1 mm²	50	163
720		Insl. receptacle 6.3 x 0.8 mm, 0.5 - 1 mm²	50	159
6304		Insl. solderless terminal M4, 1.5 - 2.5 mm²	50	154
6305		Insl. solderless terminal M5, 1.5 - 2.5 mm²	50	154
680		Insl. butt connector, 1.5 - 2.5 mm²	50	163
730		Insl. receptacle 6.3 x 0.8 mm, 1.5 - 2.5 mm²	50	159
6505		Insl. solderless terminal M5, 4 - 6 mm²	20	154
6506		Insl. solderless terminal M6, 4 - 6 mm²	20	154
700		Insl. butt connector, 4 - 6 mm²	20	163
715		Insl. pin terminal, 0.1 - 0.4 mm², 26 mm	20	156
620C4		Insl. solderless terminal M4, 0.5 - 1 mm²	20	155
630C4		Insl. solderless terminal M4, 1.5 - 2.5 mm²	20	155
705		Insl. pin terminal, 0.5 - 1 mm², 22 mm	20	156
710		Insl. pin terminal, 1.5 - 2.5 mm², 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 mm²	1	219
6204		Insl. solderless terminal M4, 0.5 - 1 mm²	20	154
6205		Insl. solderless terminal M5, 0.5 - 1 mm²	20	154
670		Insl. butt connector, 0.5 - 1 mm²	20	163
720		Insl. receptacle 6.3 x 0.8 mm, 0.5 - 1 mm²	20	159
6304		Insl. solderless terminal M4, 1.5 - 2.5 mm²	20	154
680		Insl. butt connector, 1.5 - 2.5 mm²	20	163
730		Insl. receptacle 6.3 x 0.8 mm, 1.5 - 2.5 mm²	20	159
6305		Insl. solderless terminal M5, 1.5 - 2.5 mm²	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 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 mm²	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 mm², M6, Cu tinned	25	14
1R8	Tubular cable lug without inspection hole, 6 mm², M8, Cu tinned	25	14
2R6	Tubular cable lug without inspection hole, 10 mm², M6, Cu tinned	25	14
2R8	Tubular cable lug without inspection hole, 10 mm², M8, Cu tinned	25	14
3R10	Tubular cable lug without inspection hole, 16 mm², M10, Cu tinned	25	14
4R8	Tubular cable lug without inspection hole, 25 mm², M8, Cu tinned	20	14
4R10	Tubular cable lug without inspection hole, 25 mm², M10, Cu tinned	20	14
5R8	Tubular cable lug without inspection hole, 35 mm², M8, Cu tinned	20	14
5R10	Tubular cable lug without inspection hole, 35 mm², M10, Cu tinned	20	14
6R10	Tubular cable lug without inspection hole, 50 mm², 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 mm² 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 mm²	1	312
47612	Insl. cable end-sleeve, 10 mm², 22 mm	50	139
47712	Insl. cable end-sleeve, 16 mm², 24 mm	50	140
47818	Insl. cable end-sleeve DIN 46228 part 4, 25 mm²	25	140
R505	Crimping dies R 50, 16 - 25 mm²	1	312
3R8	Tubular cable lug without inspection hole, 16 mm², M8, Cu tinned	25	14
4R8	Tubular cable lug without inspection hole, 25 mm², M8, Cu tinned	25	14
AE503	Crimping dies AE 50, 35 - 50 mm²	1	312
47918	Insl. cable end-sleeve DIN 46228 part 4, 35 mm²	25	140
48025	Insl. cable end-sleeve DIN 46228 part 4, 50 mm², 40 mm long	20	140
IS5072	Crimping dies IS 50, single crimping, 10 - 16 mm²	1	313
652C6	Insl. solderless terminal M6, 10 mm², 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 mm²	442 x 357 x 117	**LBOXX3R8SET**
L-BOXX from plastic with tubular cable lugs 50 - 185 mm²	442 x 357 x 117	**LBOXX6R10SET**

Scope of supply **LBOXX3R8SET**	Description	Quantity	Page
3R8	Tubular cable lug without inspection hole, 16 mm², M8, Cu tinned	50	14
4R8	Tubular cable lug without inspection hole, 25 mm², M8, Cu tinned	50	14
5R8	Tubular cable lug without inspection hole, 35 mm², M8, Cu tinned	50	14
6R10	Tubular cable lug without inspection hole, 50 mm², M10, Cu tinned	30	15
7R10	Tubular cable lug without inspection hole, 70 mm², M10, Cu tinned	20	15
8R10	Tubular cable lug without inspection hole, 95 mm², M10, Cu tinned	20	15

Scope of supply **LBOXX6R10SET**	Description	Quantity	Page
6R10	Tubular cable lug without inspection hole, 50 mm², M10, Cu tinned	30	15
7R10	Tubular cable lug without inspection hole, 70 mm², M10, Cu tinned	20	15
8R10	Tubular cable lug without inspection hole, 95 mm², M10, Cu tinned	20	15
9R12	Tubular cable lug without inspection hole, 120 mm², M12, Cu tinned	12	15
10R12	Tubular cable lug without inspection hole, 150 mm², M12, Cu tinned	12	15
11R12	Tubular cable lug without inspection hole, 185 mm², 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 mm²	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 mm², M6, Cu tinned	25	56
101R8	Compression cable lug, 6 mm², M8, Cu tinned	25	56
102R6	Compression cable lug, DIN 46235, 10 mm², M6, Cu tinned	25	56
102R8	Compression cable lug, 10 mm², M8, Cu tinned	25	56
103R10	Compression cable lug, DIN 46235, 16 mm², M10, Cu tinned	25	56
104R8	Compression cable lug, DIN 46235, 25 mm², M8, Cu tinned	20	56
104R10	Compression cable lug, DIN 46235, 25 mm², M10, Cu tinned	20	56
105R8	Compression cable lug, DIN 46235, 35 mm², M8, Cu tinned	15	56
106R8	Compression cable lug, DIN 46235, 50 mm², M8, Cu tinned	10	56
106R10	Compression cable lug, DIN 46235, 50 mm², 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 mm²	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 mm², M6, Cu	25	28
6B8	Tubular cable lugs, blue connection®, 6 mm², M8, Cu	25	28
10B6	Tubular cable lugs, blue connection®, 10 mm², M6, Cu	25	28
10B8	Tubular cable lugs, blue connection®, 10 mm², M8, Cu	25	28
16B10	Tubular cable lugs, blue connection®, 16 mm², M10, Cu	25	28
25B8	Tubular cable lugs, blue connection®, 25 mm², M8, Cu	20	28
25B10	Tubular cable lugs, blue connection®, 25 mm², M10, Cu	20	28
35B8	Tubular cable lugs, blue connection®, 35 mm², M8, Cu	20	28
35B10	Tubular cable lugs, blue connection®, 35 mm², M10, Cu	20	28
50B10	Tubular cable lugs, blue connection®, 50 mm², 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 mm²	1	525
K507		Crimping tool with replaceable dies	1	234
720		Insl. receptacle 6.3 x 0.8 mm, 0.5 - 1 mm²	50	159
730		Insl. receptacle 6.3 x 0.8 mm, 1.5 - 2.5 mm²	50	159
820		Insl. tab 6.3 x 0.8 mm, 0.5 - 1 mm²	50	162
830		Insl. tab 6.3 x 0.8 mm, 1.5 - 2.5 mm²	50	162
6204		Insl. solderless terminal M4, 0.5 - 1 mm²	50	154
6305		Insl. solderless terminal M5, 1.5 - 2.5 mm²	50	154
6506		Insl. solderless terminal M6, 4 - 6 mm²	50	154
670		Insl. butt connector, 0.5 - 1 mm²	50	163
680		Insl. butt connector, 1.5 - 2.5 mm²	50	163
700		Insl. butt connector, 4 - 6 mm²	25	163
1652C5		Solderless terminals fork type 10 mm², M5	50	78
1652C6		Solderless terminals fork type 10 mm², M6	50	78
16505		Solderless terminals DIN 46234, 4 - 6 mm², M5, Cu tinned	50	74
16506		Solderless terminals DIN 46234, 4 - 6 mm², M6, Cu tinned	50	74
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	400	139
4718		Insl. cable end-sleeve, 1 mm², 14 mm	400	139
4728		Insl. cable end-sleeve, 1.5 mm², 14 mm	400	139
4738		Insl. cable end-sleeve, 2.5 mm², 14 mm	200	139
47410		Insl. cable end-sleeve, 4 mm², 17 mm	100	139
47512		Insl. cable end-sleeve, 6 mm², 20 mm	100	139
47612		Insl. cable end-sleeve, 10 mm², 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 mm²	**LBOXXMINIK3**

Scope of supply	Colour	Description	l2 mm	Quantity	Page
K3		Crimping tool for cable end-sleeves 0.5 - 16 mm²		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 mm², 14 mm	8	100	139
47312		Insl. cable end-sleeve, 2.5 mm², 18 mm	12	100	139
47412		Insl. cable end-sleeve, 4 mm², 20 mm	12	50	139
47512		Insl. cable end-sleeve, 6 mm², 20 mm	12	50	139
47612		Insl. cable end-sleeve, 10 mm², 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 mm²					**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 mm²		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 mm², 14 mm	8	100	139
47312	■	Insl. cable end-sleeve, 2.5 mm², 18 mm	12	100	139
47412	■	Insl. cable end-sleeve, 4 mm², 20 mm	12	50	139
47512	■	Insl. cable end-sleeve, 6 mm², 20 mm	12	50	139
47612	■	Insl. cable end-sleeve, 10 mm², 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 mm²					**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 mm² and twin cable end-sleeves 2 x 0,5 - 2 x 6 mm²		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 mm², 14 mm	8	100	139
47312	■	Insl. cable end-sleeve, 2.5 mm², 18 mm	12	100	139
47412	■	Insl. cable end-sleeve, 4 mm², 20 mm	12	50	139
47512	■	Insl. cable end-sleeve, 6 mm², 20 mm	12	50	139
47612	■	Insl. cable end-sleeve, 10 mm², 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 mm²					**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 mm²		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 mm², 14 mm	8	100	139
47312	■	Insl. cable end-sleeve, 2.5 mm², 18 mm	12	100	139
47412	■	Insl. cable end-sleeve, 4 mm², 20 mm	12	50	139
47512	■	Insl. cable end-sleeve, 6 mm², 20 mm	12	50	139
47612	■	Insl. cable end-sleeve, 10 mm², 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 mm²			**LBOXXEK354CFB**
EK 50/5	6 - 240 mm²			**LBOXXEK505CFB**
EK 50/18	6 - 240 mm²			**LBOXXEK5018CFB**
EKM 60/22	6 - 300 mm²			**LBOXXEKM6022CFB**
EKM 60 ID	10 - 240 mm²			**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 mm²	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 mm²			**LBOXXEK354CFM**
EK 50/5	6 - 240 mm²			**LBOXXEK505CFM**
EK 50/18	6 - 240 mm²			**LBOXXEK5018CFM**
EKM 60/22	6 - 300 mm²			**LBOXXEKM6022CFM**
EKM 60 ID	10 - 240 mm²			**LBOXXEKM60IDCFM**
ES 20		max. 20 mm Ø		**LBOXXES20CFM**
ES 32 F		max. 32 mm dia.		**LBOXXES32FCFM**
ES 32		max. 32 mm dia.		**LBOXXES32CFM**
EKM 60 UNV	6 - 300 mm²	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

Electromechanical crimping tool **243**

Battery powered crimping tool **246**
10.8 V - base 247
18 V - base 252

Hand-operated hydraulic crimping tools **279**

Hydraulic crimping heads and crimping systems **293**
Hydraulic crimping heads 294
Hydraulic crimping systems 308

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.

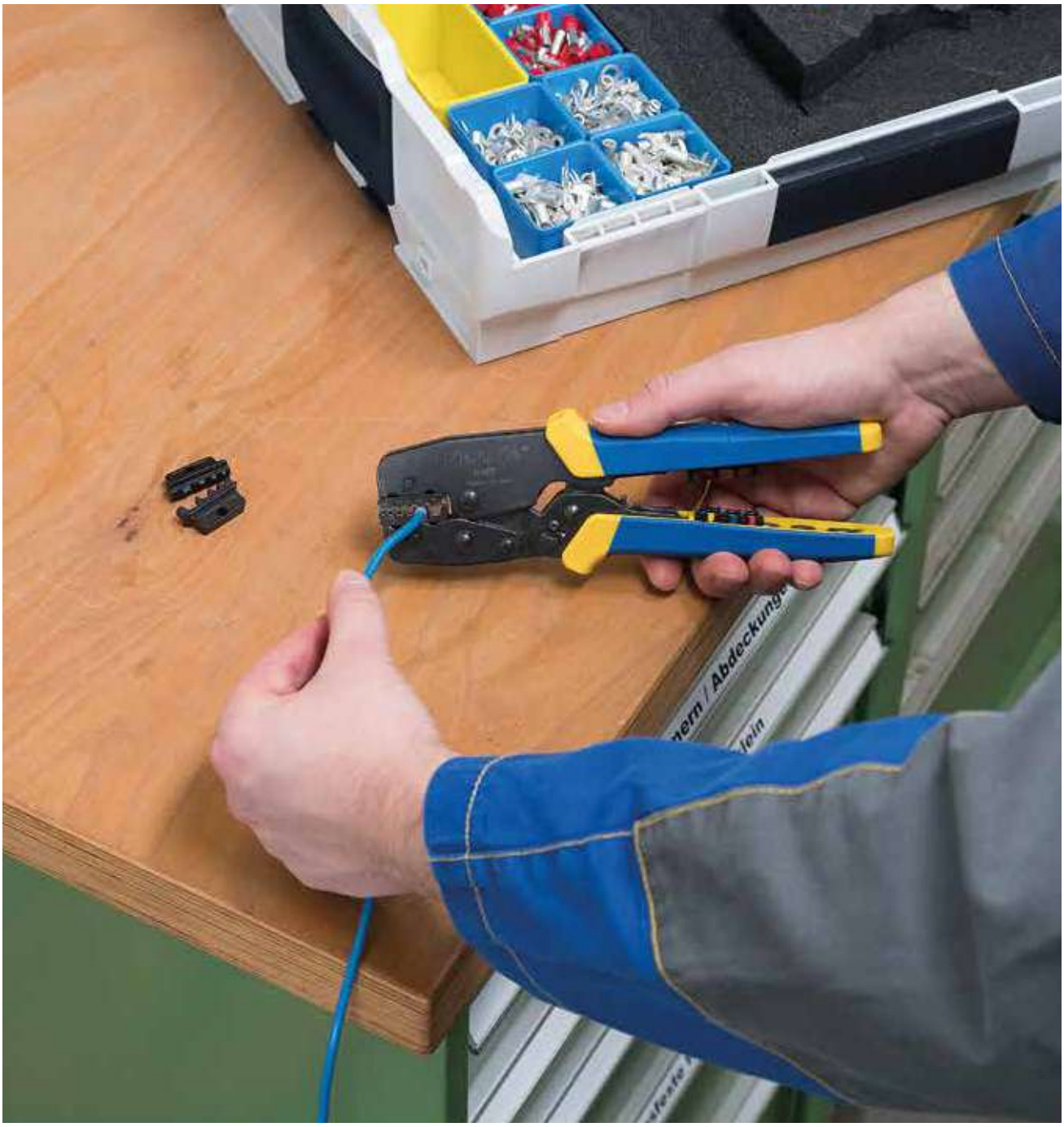
In brief

- 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

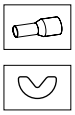
Developed for a broad range of applications

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 mm^2 to 400 mm^2
- 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



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

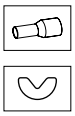
- One crimp profile per cross-section
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Optimum handling due to ergonomically-shaped handle

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 mm²	**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

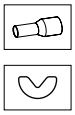
- One crimp profile per cross-section
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Optimum handling due to ergonomically-shaped handle

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 mm²	**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

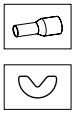
Technical data	
Crimping range	0.5 - 16 mm²
Length	230 mm
Weight	0.35 kg

Item	Part No.
Crimping tool for cable end-sleeves 0.5 - 16 mm²	**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 insl. cable end-sleeves and crimping tool	SK47B	185
L-BOXX from plastic with crimping tool and cable end-sleeves 0.5 - 16 mm²	LBOXXMINIK3	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

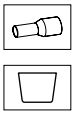
- One crimp profile per cross-section
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Optimum handling due to ergonomically-shaped handle

Technical data	
Crimping range	10 - 35 mm²
Length	230 mm
Weight	0.24 kg

Item	Part No.
Crimping tool for cable end-sleeves 10 - 35 mm²	**K35**

Accessories	Part No.	Page
Steel carrying case	SK32L	191

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 mm²
Length	175 mm
Weight	0.19 kg

Item	Part No.
Crimping tool for cable end-sleeves 0.14 - 2.5 mm²	**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 mm²
Length	150 mm
Weight	0.16 kg

Item	Part No.
Crimping tool for cable end-sleeves 0.14 - 2.5 mm²	**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 insl. 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 mm²
Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 1.5 and 2 x 2.5 - 2x4 mm²
Length	200 mm
Weight	0.22 kg

Item	Part No.
Crimping tool for cable end-sleeves 0.5 - 6 mm² and twin cable end-sleeves 2 x 0.25 - 2 x 1.5 and 2 x 2.5 - 2 x 4 mm²	**K36**

Accessories	Part No.	Page
Steel carrying case	SK32L	191

NEU

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

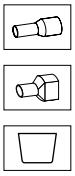
- Push-in, spring clamp and screw technology

Technical data	
Crimping range cable end-sleeves	0.14 - 10 mm²
Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 4 mm²
Length	177 mm
Weight	0.298 kg

Item	Part No.
Crimping tool for cable end-sleeves 0,14 - 10 mm² and twin cable end-sleeves 2 x 0,25 - 2 x 4 mm²	**K32**

Accessories	Part No.	Page
Steel carrying case	SK43L	191
Steel carrying case	SK30L	191
Steel carrying case	SK32L	191

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

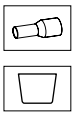
- With ratchet for consistently-controlled crimp results
- Front sleeve insertion (front crimping)
- Handle with slip guard and inscription panel

Technical data	
Crimping range cable end-sleeves	6 - 16 mm²
Crimping range twin cable end-sleeves	2 x 4 - 2 x 6 mm²
Length	210 mm
Weight	0.5 kg

Item	Part No.
Crimping tool for cable end-sleeves 6 - 16 mm² and twin cable end-sleeves 2 x 4 - 2 x 6 mm²	**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

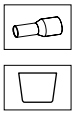
- Adjusting disc for compensating for the natural tool wear
- One crimp profile per cross-section
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool

Technical data	
Crimping range	0.14 - 6 mm²
Length	200 mm
Weight	0.36 kg

Item	Part No.
Crimping tool for cable end-sleeves 0.14 - 6 mm²	**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

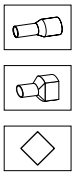
- Adjusting disc for compensating for the natural tool wear
- One crimp profile per cross-section
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool

Technical data	
Crimping range	10 - 25 mm²
Length	200 mm
Weight	0.36 kg

Item	Part No.
Crimping tool for cable end-sleeves 10 - 25 mm²	**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

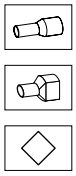
- Accurate drive
- With ratchet for consistently-controlled crimp results
- Front sleeve insertion (front crimping)

Technical data	
Crimping range cable end-sleeves	0.5 - 6 mm²
Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 2.5 mm²
Length	190 mm
Weight	0.3 kg

Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.5 - 6 mm²	**K382**

Accessories	Part No.	Page
Steel carrying case	SK43L	191

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 mm²
Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 4 mm²
Length	190 mm
Weight	0.3 kg

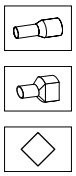
Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 10 mm²	**K303**

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

NEW



▸ **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 mm²
Crimping range twin cable end-sleeves	2 x 0.5 - 2 x 6 mm²
Length	215 mm
Weight	0.5 kg

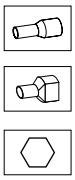
Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 16 mm², square crimping	**K304K**

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 mm²	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 mm²
Crimping range twin cable end-sleeves	2 x 0.5 - 2 x 10 mm²
Length	215 mm
Weight	0.5 kg

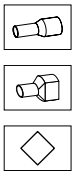
Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 16 mm², hexagonal crimping	**K306K**

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 mm²	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

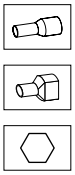
Technical data	
Crimping range cable end-sleeves	0.14 - 10 mm²
Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 4 mm²
Length	175 mm
Weight	0.35 kg

Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm²	**K3014K**

Variants	Part No.	Page
L-BOXX from plastic with crimping tool and insl. cable end-sleeves 1.5 - 10 mm²	LBOXXMINIK3014K	202

K 301/6 K Self-adjusting crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm²

NEW



- Hexagonal crimping
- Very light and ergonomic

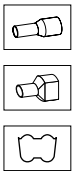
Characteristics

- 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 mm²
Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 4 mm²
Length	175 mm
Weight	0.35 kg

Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm²	**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

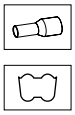
- One crimp profile per cross-section
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Handle with slip guard and inscription panel

Technical data	
Crimping range cable end-sleeves	10 - 50 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 mm²	**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

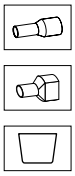
- One crimp profile per cross-section
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Handle with slip guard and inscription panel

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 mm²	**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

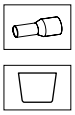
- One crimp profile per cross-section
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Handle with slip guard and inscription panel

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 mm²	**K28**

Accessories	Part No.	Page
Steel carrying case	SK4L	191

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

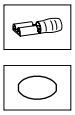
- One crimp profile per cross-section
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Handle with slip guard and inscription panel

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 mm²	**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 mm²	**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 mm²
Crimping range blue insulation sleeve	1.5 - 2.5 mm²
Crimping range yellow insulation sleeve	4.0 - 6.0 mm²
Length	225 mm
Weight	0.53 kg

Item	Part No.
Crimping tool for insulated cable connections 0.5 - 6 mm²	**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

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 mm²
Crimping range blue insulation sleeve	1.5 - 2.5 mm²
Crimping range yellow insulation sleeve	4.0 - 6.0 mm²
Length	225 mm
Weight	0.53 kg

Item	Part No.
Crimping tool for insulated cable connections 0.5 - 6 mm²	**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 mm²
Crimping range blue insulation sleeve	16 mm²
Length	305 mm
Weight	0.61 kg

Item	Part No.
Crimping tool for insulated solderless terminals 10 + 16 mm²	**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 mm²
Length	220 mm
Weight	0.55 kg

Item	Part No.
Crimping tool for non-insulated tabs and receptacles 2.8 mm; 0.1-1 mm²	**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 mm²
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 mm²	**K582**

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 mm²
Length	220 mm
Weight	0.51 kg

Item	Part No.
Crimping tool for non-insulated tabs and receptacles 6.3 mm; 0.5 - 6 mm²	**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 mm²
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 mm²	**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 mm²	**K93**

K 94 Crimping tool for tubular cable lugs and connectors for solid conductors 6 - 10 mm²

- Hexagonal crimping
- Tool pre-tensioning adjustable

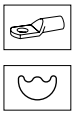
Characteristics

- 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 mm²	**K94**

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

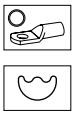
- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool

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 mm²	**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 mm²	**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 mm²
Length	325 mm
Weight	0.6 kg

Item	Part No.
Crimping tool 0.5 - 16 mm²	**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 mm²
Length	630 mm
Weight	3.6 kg

Item	Part No.
Crimping tool 16 - 95 mm²	**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

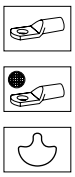
Suitable for

- 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 mm²
Length	700 mm
Weight	3.9 kg

Item	Part No.
Crimping tool 16 - 95 mm² for workbench mounting	**TK95**

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

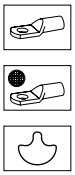
Suitable for

- Tubular cable-lugs and connectors, standard type
- Tubular cable lugs and connectors for fine-stranded conductors

Technical data	
Crimping range	6 - 50 mm²
Length	600 mm
Weight	2.4 kg

Item	Part No.
Crimping tool 6 - 50 mm²	**K5**
Crimping tool with ratchet, 6 - 50 mm²	**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 mm²
Length	970 mm
Weight	4.4 kg

Item	Part No.
Crimping tool 50 - 120 mm²	**K6**
Crimping tool with ratchet 50 - 120 mm²	**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 mm²
Length	975 mm
Weight	4.7 kg

Item	Part No.
Crimping tool 185 - 400 mm²	**K07**
Crimping tool with ratchet 185 - 400 mm²	**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 mm²
Length	975 mm
Weight	4.6 kg

Item	Part No.
Crimping tool 120 - 240 mm²	**K7**
Crimping tool 120 - 240 mm² with ratchet	**K7SP**

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

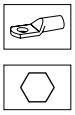
Suitable for

- 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 mm²	**K8**
Crimping tool with ratchet 35 - 95 mm²	**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 mm²	**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 mm²	**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 mm²	**K05**
Syncro Crimping tool with ratchet for tubular cable lugs and connectors, standard type 6 - 50 mm²	**K05SP**

Variants	Part No.	Page
Steel assortment box with tubular cable lugs 6 - 50 mm² and crimping tool K05	SK65B	187
L-BOXX from plastic with standard equipment for electrical installations	LBOXX65B	198

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 mm²
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 mm²	**K05D**
Syncro Crimping tool with ratchet for compression cable lugs and connectors (DIN 46235 / DIN 46267 part 1) 6 - 50 mm²	**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 mm²
Length	600 - 750 mm
Weight	2.6 kg

Item	Part No.
Syncro Crimping tool for tubular cable lugs and connectors, blue connection® 10 - 120 mm²	**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 mm²
Length	600 - 750 mm
Weight	2.6 kg

Item	Part No.
Syncro Crimping tools for tubular cable lugs and connectors, standard type 10 - 120 mm²	**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

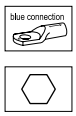
Characteristics

- Precisely synchronised head plate position for optimum and consistent crimp results
- Modern, rigid and lightweight elliptical handle tubes

Technical data	
Crimping range	6 - 120 mm²
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 mm²	**K06D**

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**

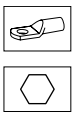
Characteristics

- 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 mm²
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 mm²	**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

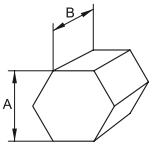
Suitable for

- 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 mm²	Part No.
Mechanical crimping tool 1 - 4 mm²	1-4	**K511**
Mechanical crimping tool 6 + 10 mm²	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 mm²	IS5071	
Crimping dies AE 50, 0.14 - 10 mm²	AE501	312
Crimping die for insulated connectors 0.5 - 6 mm²	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 mm²	**K50**

Accessories	Part No.	Page
Steel carrying case	MK55	192

Available dies for Series 50 for K 50

Suitable for	Connection material	Crimping range mm²	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)	DIN	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

K 35/4 Crimping tool for interchangeable dies 6 - 150 mm²

- **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 mm²	**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 mm²	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 connectorsl				
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

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 mm²	**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 mm²	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, trapezodial, for fine stranded conductors		2 x 4 - 2 x 16		326
Cutting die				
for cutting area		18 mm dia.		392

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 mm²	**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 mm²	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 mm²		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

Suitable for	Connection material	Crimping range mm²	Crimp profile	Page
Clamps				
Clamps, C-type		4 - 70		331
Clamps, H-type		70		331
Cable end-sleeves				
Cable end-sleeves, trapezodial, 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/

EK 50 ML Electromechanical crimping tool 0.14 - 50 mm²

- **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 mm²
Number of crimps	approx. 300 at 10 mm² 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 mm²	**EK50ML**	
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
Crimping dies IS 50, double crimping, 0.5 - 6 mm²	IS501	
Plastic case 450 x 370 x 105 mm	KKEK50ML	
Variants	**Part No.**	**Page**
Electromechanical crimping tool 0.14 - 50 mm² with RAML1 battery, no crimping die, case, charge	EK50ML-L	
L-BOXX with electro-mechanical crimping tool EK 50 ML 0.14 to 50 mm² and extensive additional equipment	LBOXXEK50ML	198

Available dies of series 50 for EK 50 ML

Suitable for	Connection material	Crimping range mm²	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!

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 mm^2 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

- 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 mm²
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 mm²	**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 mm²	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	

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 mm²
Crimping cycle	approx. 2 s
Number of crimps	approx. 230 at 10 mm² 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 mm²	**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 mm²	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

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 mm²
Crimping cycle	3 s to 4 s (depending on crimp cross-section)
Number of crimps	approx. 145 at 120 mm² 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 mm²	**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 mm²	EK354MLSETHR	
EK 35/4 ML with crimping die set HD 4 from 6 - 120 mm²	EK354MLSETHD	

Available dies for Series 4 for EK 35/4 ML

Suitable for	Connection material	Crimping range mm²	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 connectorsl				
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.

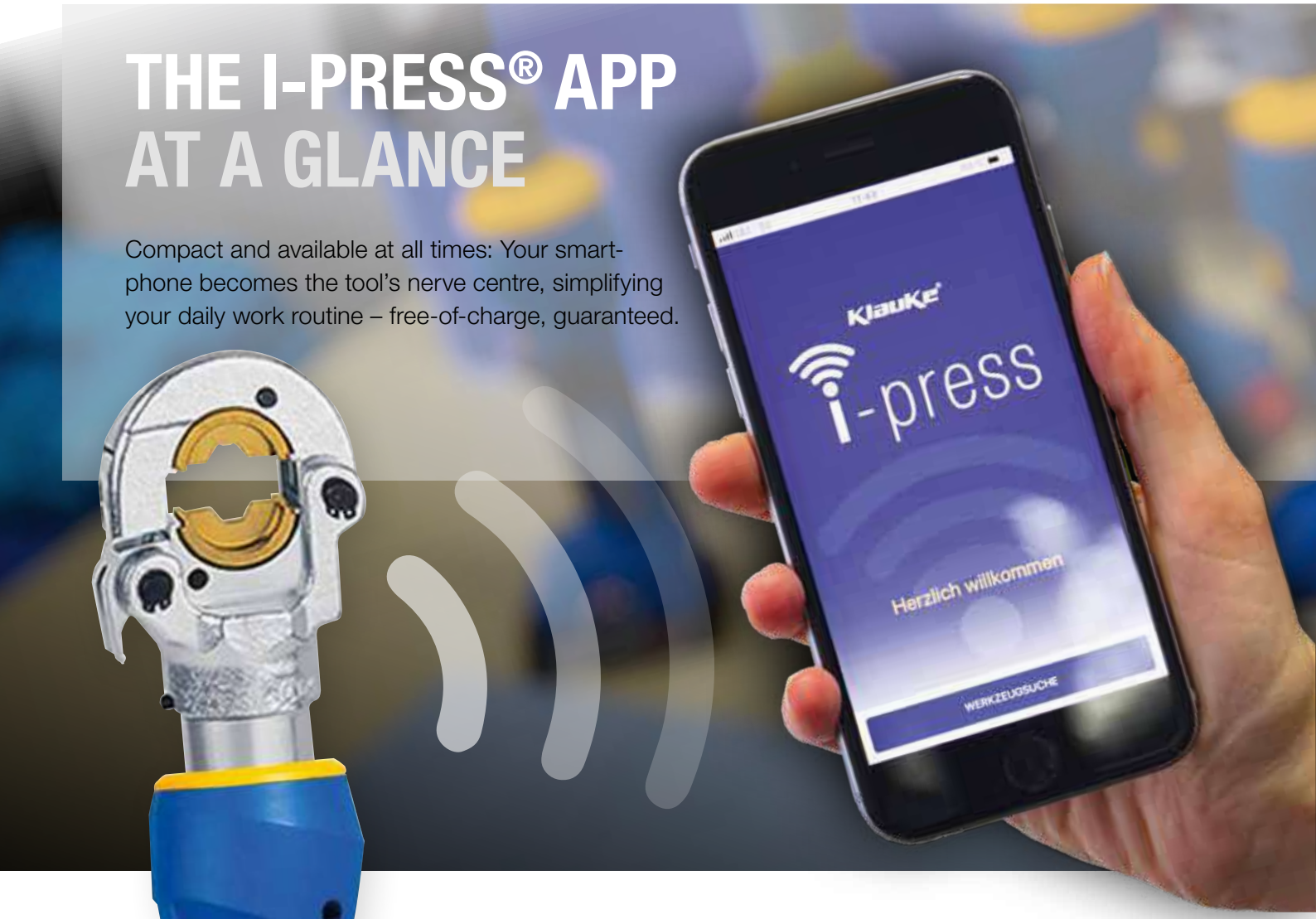
i-press® app

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/

THE I-PRESS® APP AT A GLANCE

Compact and available at all times: Your smartphone 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.

i-press® app

Keep an overview of all your tools even while on the go.
and personalise your tool settings via the app.

EASY TO OPERATE

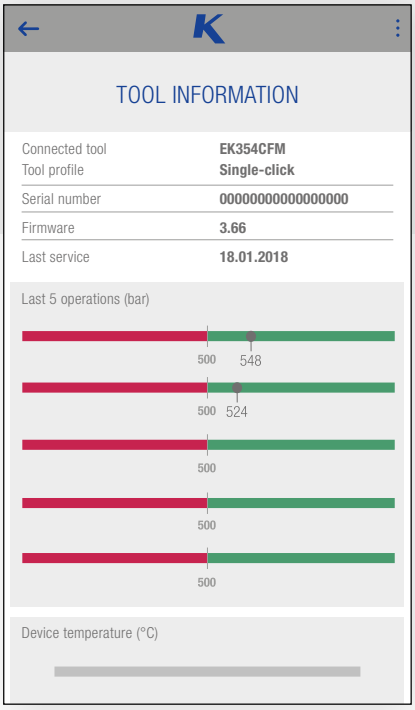
Menu guidance function is easy and quick to understand thanks to the cascade function. You can start immediately, personalise your tool and use all the other functions.

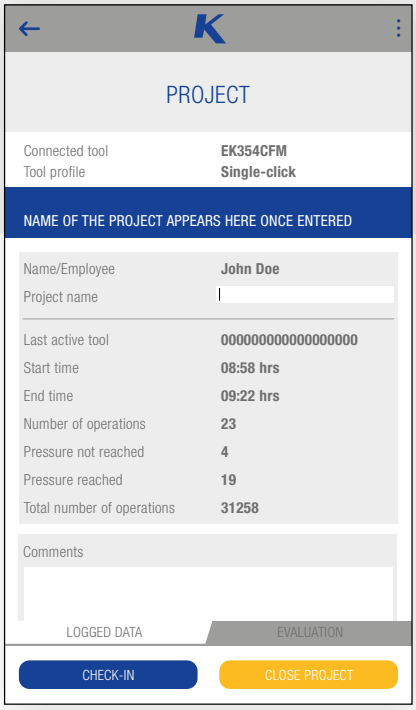
CREATING AND TRACKING PROJECTS

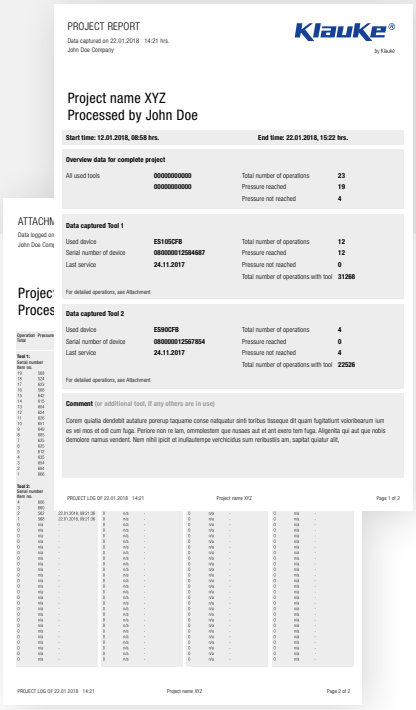
The last 5 pressure values, the device temperature or the remaining operations – all important information can be easily read off.

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 activitiesen

i-press® software

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 i-press software can be found at www.klauke.com/de/support/download/connectivity-werkzeugdaten-auslesen/

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

Technical data	
Crimping force	35 kN
Stroke / opening width	9 mm
Crimping range	6 - 150 mm²
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 mm²	**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 mm²	LBOXXEK354CFB		203
L-BOXX with battery powered crimping tool EK354CFM, 6 - 150 mm²		LBOXXEK354CFM	203

Available dies for Series 4 for EK 35/4

Suitable for	Connection material	Crimping range mm²	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 connectorsl				
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

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

Technical data			
Crimping force	50 kN		
Stroke / opening width	12 mm		
Crimping range	6 - 240 mm²		
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 mm²	**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 mm²	LBOXXEK505CFB		203
L-BOXX with battery powered crimping tool EK505CFM, 6-240 mm²		LBOXXEK505CFM	203

Available dies for Series 5 for EK 50/5

Suitable for	Connection material	Crimping range mm²	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

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

IEC

K18 SERIE

Technical data			
Crimping force	50 kN		
Stroke / opening width	17 mm		
Crimping range	6 - 240 mm²		
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 mm²	**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 mm²	LB0XXEK5018CFB		203
L-BOXX with battery powered crimping tool EK5018CFM, 6 -240 mm²		LB0XXEK5018CFM	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 mm²	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, trapezodial, for fine stranded conductors		2 x 4 - 2 x 16		326
Cutting die				
for cutting area		18 mm dia.		392

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 mm²
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 mm²	**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 mm²	LB0XXEKM6022CFB		203
L-BOXX with battery powered crimping tool EKM6022CFM, 6 - 300 mm²		LB0XXEKM6022CFM	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 mm²	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 mm²		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, trapezodial, for fine stranded conductors		10 - 240		332
Twin cable end-sleeves, trapezodial, 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

Technical data	
Crimping force	60 kN
Hub	17 mm
Crimping range	6 - 300 mm²
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 mm²	**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 mm²	EK6022CFMSETD	
EK 60/22 with crimping die set R 22 from 16 - 240 mm²	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 mm²	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 mm²		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, trapezodial, for fine stranded conductors		10 - 240		332
Twin cable end-sleeves, trapezodial, 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 mm²
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 mm²	**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 mm²	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 mm²
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 mm²	**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 mm²	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	

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 mm²	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	Al	50 - 240	
Compression joints for full tension connections of Aldrey conductors according to DIN EN 50182	Aldrey	50 - 185	
Compression joints acc. to DIN 48085, part 3 for Al/St-cable acc. to DIN EN 50182	Al/St	50 - 240	
Aluminum/copper compression cable lugs and connectors			
Aluminum/copper compression cable lugs and connectors	Al/Cu	50 - 240	

Technical data	
Crimping force	30 - 60 kN
Stroke / opening width	40.5 mm
Crimping range Cu	10 - 240 mm²
Crimping range Al	50 - 240 mm²
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 mm²	**EKM60IDCFB**	**EKM60IDCFM**	
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 / 4.0 Ah, Li-Ion		RAL40	484
Variants			**Page**
L-BOXX with battery powered crimping tool EKM60IDCFB, 10 - 240 mm²	LB0XXEKM60IDCFB		203
L-BOXX with battery powered crimping tool EKM60IDCFM, 10 - 240 mm²		LB0XXEKM60IDCFM	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 mm²
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 mm²	**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 mm²	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

Technical data	
Crimping force	120 kN
Stroke / opening width	32 mm
Crimping range	16 - 400 mm²
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 mm²	**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 mm²	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 mm²	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 mm²		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

Technical data	
Crimping force	120 kN
Stroke / opening width	42 mm
Crimping range	16 - 400 mm²
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 mm²	**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 mm²	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 mm²		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 mm²
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 mm²	**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 mm²	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 mm²		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 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 mm²
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 mm²	**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 mm²	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 mm²		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

Available dies for Series 15 for EK 135 FT

Suitable for	Connection material	Crimping range mm²	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

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.

HK 60/18 Hand-operated hydraulic crimping tool 6 - 240 mm²

K18 SERIE

- 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 mm²
Length	470 mm
Weight	3.0 kg
Ambient temperature	-20 up to +40 °C

Item	Part No.
Hand-operated hydraulic crimping tool 6 - 240 mm²	**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 mm²	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, trapezodial, for fine stranded conductors		2 x 4 - 2 x 16		326
Cutting die				
for cutting area		18 mm dia.		392

HK 60/22 Hand-operated hydraulic crimping tool 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, 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 mm²
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 mm²	**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 mm²	HK6022SETR
HK 60/22 with crimping die set D 22 from 16 - 240 mm²	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 mm²	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 mm²		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, trapezodial, for fine stranded conductors		10 - 240		332
Twin cable end-sleeves, trapezodial, for fine stranded conductors		2 x 4 - 2 x 16		332

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 mm²
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 mm²	**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 mm²	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 mm²
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 mm²	**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 mm²	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	

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 mm²
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 mm²	**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 mm²	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	VA	10 - 50		334
Tubular cable lugs and connectors – VA	VA	70 - 95		334
Tubular cable lugs and connectors - Ni	Ni	10 - 50		334
Tubular cable lugs and connectors - Ni	Ni	70 - 95		334

See next page

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm²	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 mm²		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

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 mm²
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 mm²	**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 mm²	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	VA	10 - 50		334
Tubular cable lugs and connectors – VA	VA	70 - 95		334
Tubular cable lugs and connectors - Ni	Ni	10 - 50		334
Tubular cable lugs and connectors - Ni	Ni	70 - 95		334

See next page

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm²	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 mm²		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

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 mm²
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 mm²	**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 mm²	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	VA	10 - 50		334
Tubular cable lugs and connectors – VA	VA	70 - 95		334
Tubular cable lugs and connectors - Ni	Ni	10 - 50		334
Tubular cable lugs and connectors - Ni	Ni	70 - 95		334

See next page

Refer to the limitations when crimping connectors in the technical appendix.

Suitable for	Connection material	Crimping range mm²	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 mm²		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

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 mm^2.

- Compact design
- Easy handling
- Versatile
- Broadest range of applications

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 mm²
Operating pressure	max. 700 bar
Length	310 mm
Weight	3.2 kg

Item	Part No.
Hydraulic crimping head 6 - 185 mm²	**PK18**

Scope of supply	Part No.	Page
Carrying bag	TT2	194

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 mm²
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 mm²	**THK18**

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 mm²	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, trapezodial, for fine stranded conductors		2 x 4 - 2 x 16		326
Cutting die				
for cutting area		18 mm dia.		392

PK 22 Hydraulic crimping heads 6 - 300 mm²

- 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 mm²
Operating pressure	max. 700 bar
Length	305 mm
Weight	3.0 kg

Item	Part No.
Hydraulic crimping head 6 - 300 mm²	**PK22**

Scope of supply	Part No.	Page
Carrying bag	TT2	194

THK 22 Hydraulic crimping tool for workbench mounting 6 - 300 mm²

- 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 mm²
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 mm²	**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 mm²	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 mm²		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, trapezodial, for fine stranded conductors		10 - 240		332
Twin cable end-sleeves, trapezodial, for fine stranded conductors		2 x 4 - 2 x 16		332

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 mm²
Operating pressure	max. 700 bar
Length	305 mm
Weight	2.8 kg

Item	Part No.
Hydraulic crimping head 10 - 240 mm²	**PK60VP**

Scope of supply	Part No.	Page
Carrying bag	TT2	194

Suitable for	Connection material	Crimping range mm²	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 mm²
Operating pressure	max. 700 bar
Length	315 mm
Weight	2.8 kg

Item	Part No.
Hydraulic crimping head 16 - 300 mm²	**PK60VPFT**

Scope of supply	Part No.	Page
Carrying bag	TT2	194

Suitable for	Connection material	Crimping range mm²	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 mm²
Crimping range aluminum	50 - 240 mm²
Operating pressure	max. 700 bar
Length	249.5 mm
Weight	approx. 2.5 kg

Item	Part No.
Hydraulic crimping head 10 - 240 mm²	**PK60ID**

Scope of supply	Part No.	Page
Carrying bag	TT2	194

Suitable for	Connection material	Crimping range mm²	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 mm²		50 - 185	
Aluminum/copper compression cable lugs and connectors			
Aluminum/copper compression cable lugs and connectors		50 - 240	

PK 120/42 Hydraulic crimping head 10 - 400 mm²

- 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 mm²
Operating pressure	max. 700 bar
Length	335 mm
Weight	4.5 kg

Item	Part No.
Hydraulic crimping head 10 - 400 mm²	**PK12042**

Scope of supply	Part No.	Page
Carrying bag	TT2	194

THK 120 Hydraulic crimping tool for workbench mounting 10 - 400 mm²

- 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 mm²
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 mm²	**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 mm²	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 mm²		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

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 mm²	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 mm²
Operating pressure	max. 700 bar
Length	320 mm
Weight	3.7 kg

Item	Part No.
Hydraulic crimping head 10 - 400 mm²	**PK120U**

Scope of supply	Part No.	Page
Carrying bag	TT2	194

K13 SERIE

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 mm²	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 mm²	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 mm²		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

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 mm²
Operating pressure	max. 700 bar
Length	335 mm
Weight	5.3 kg

Item	Part No.
Hydraulic crimping head 16 - 625 mm²	**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

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 mm²	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 mmÂ²		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

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 mm²
Operating pressure	max. 700 bar
Weight	10.3 kg
Height	265 mm

Item	Part No.
Hydraulic crimping head 120 - 1000 mm²	**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 mm²	Crimp profile	Page
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu	DIN	120 - 1000		342
Compression cable lugs and connectors acc. to DIN - Al				
Compression cable lugs and connectors acc. to DIN - Al	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 mm²	Aldrey	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	Al/Cu	150 - 500		342

PK 1000 Hydraulic 100 t crimping heads up to 1000 mm²

- **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“

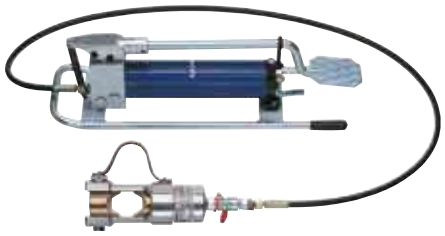
Technical data	
Crimping force	1000 kN
Stroke	25 mm
Crimping range	ACSR: up to 1045/45 (1046-AL1/45-ST1A) mm²
Crimping Cu	up to 1000 mm²
Crimping Al	up to 1000 mm²
Operating pressure	max. 700 bar
Weight	Without dies: 27 kg
Height	Incl. handles: 365 mm
Dimensions	External diameter: 195 mm

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 mm²	Crimp profile	Page
Copper compression cable lugs and connectors acc. to DIN				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1)	DIN	625 - 1000	⬡	343

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.

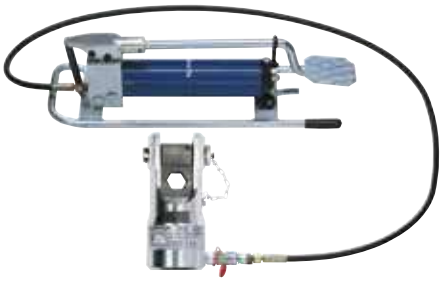
Technical data	
Crimping force	250 kN
Crimping range	16 - 625 mm²
Operating pressure	max. 700 bar
Weight	17.6 kg

Item	Part No.
Hydraulic crimping tool with foot pump 16 - 625 mm²	**HK252**

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
Adapter for crimping dies of the Klauke 13-series	25A13	339

HK 45 Hydraulic crimping tool with foot pump 120 - 1000 mm²



- 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 mm²
Operating pressure	max. 700 bar
Weight	23 kg

Item	Part No.
Hydraulic crimping tool with foot pump 120 - 1000 mm²	**HK45**

Scope of supply	Part No.	Page
Hydraulic hose, 2 m	HS22	489
Steel carrying case	MKU	194

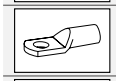
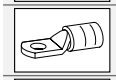
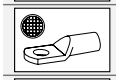
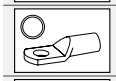
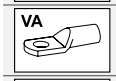
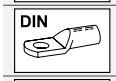
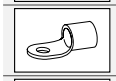
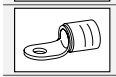
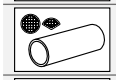
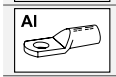
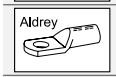
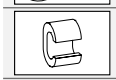
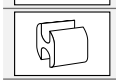
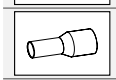
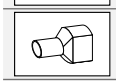
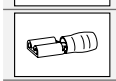
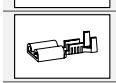
Accessories	Part No.	Page
Hydraulic hose, 3 m	HS23	489
Hydraulic hose, 4 m	HS24	489
Hydraulic hose, 5 m	HS25	489
Hydraulic hose, 6 m	HS26	489
Hydraulic hose, 8 m	HS28	489
Hydraulic hose, 10 m	HS210	489

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 mm²	6-185 mm²	–	6-300 mm²	–	–	–	–	–
	0.75-25 mm²	6-150 mm²	6-240 mm²	6-240 mm²	6-300 mm²	16-400 mm²	–	150-400 mm²	–	–
	–	10-70 mm²	10-95 mm²	10-95 mm²	10-150 mm²	10-150 mm²	–	–	–	–
	–	10-35 mm²	10-50 mm²	10-50 mm²	10-70 mm²	10-150 mm²	–	185-300 mm²	–	–
	1.5-10 mm²	1.5-16 mm²	–	1.5-16 mm²	1.5-16 mm²	–	–	–	–	–
	–	0.5-16 mm²	–	–	10-50 mm²	10-95 mm²	–	–	–	–
	–	0.5-16 mm²	–	–	10-50 mm²	10-95 mm²	–	–	–	–
	6-25 mm²	6-120 mm²	6-185 mm²	6-185 mm²	6-300 mm²	10-300 mm²	400-625 mm²	150-625 mm²	120-1000 mm²	625-1000 mm²
	0.5-10 mm²	6-35 mm²	10-50 mm²	10-70 mm²	10-70 mm²	10-150 mm²	–	150-240 mm²	–	–
	0.5-16 mm²	10-16 mm²	–	10-50 mm²	10-70 mm²	10-95 mm²	–	120-150 mm²	–	–
	–	10-150mm²*	10-300mm²*	10-300mm²*	10-300mm²*	10-300mm²*	–	10-300mm²*	–	–
	–	16-95 mm²	10-185 mm²	16-240 mm²	10-400 mm²	10-300 mm²	400-500 mm²	400-500 mm²	150-500 mm²	Upon request
	–	–	25-95 mm²	25-95 mm²	25-185 mm²	25-185 mm²	–	240-300 mm²	150-300 mm²	Upon request
	–	–	–	–	4-20 (St) 25-120 (Al)	4-20(St) 25-120(Al)	–	–	–	Upon request
	–	16-95 mm²	10-185 mm²	16-240 mm²	10-400 mm²	10-300 mm²	400-500 mm²	400-500 mm²	150-500 mm²	Upon request
	–	4-35 mm²	16-35 mm²	4-50 mm²	4-70 mm²	10-70 mm²	–	10-185 mm²	–	–
	–	–	–	–	70 mm²	70-120 mm²	–	95-120 mm²	–	–
	0.14-50 mm²	10-50 mm²	10-95 mm²	10-95 mm²	10-240 mm²	25-240 mm²	–	–	–	–
	–	2x4-2x16 mm²	2x4-2x16 mm²	2x4-2x16 mm²	2x4-2x16 mm²	–	–	–	–	–
	0.1-16 mm²	–	–	–	–	–	–	–	–	–
	0.25-6 mm²	–	–	–	–	–	–	–	–	–
BNC plug	RG 58, RG 59, RG 62, RG 71	–	–	–	–	–	–	–	–	–
Turned pin receptacle and pin connectors	0.1-4 mm²	–	–	–	–	–	–	–	–	–

* Cross-section depending on conductor structure

K50 SERIE

K 50

EK 50 ML

EK 15/50 ML

Crimping dies R 50, indent crimping

Suitable for

- Tubular cable lugs and connectors - Cu, standard type

Cross section mm²	For item	Part No.
0.75 - 2.5	91R, 92R, 93R	**R501**
4 - 10	94R, 95R, 2R	**R502**

Crimping dies R 50, hexagonal crimping NEW

Suitable for

- Tubular cable lugs and connectors - Cu, standard type

Cross section mm²	Part No.
6 - 16	**R504**
16 - 25	**R505**

Crimping dies M 50

Suitable for

- Tubular cable lugs and connectors for solid conductors

Cross section mm²	Part No.
1.5 - 4	**M50154**
6 - 10	**M50610**

Crimping dies D 50 NEW

Suitable for

- Compression cable lugs to DIN 46235 and connectors to DIN 46267, part 1 - Cu

Cross section mm²	Part No.
6 - 16	**D504**
16 - 25	**D505**

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 mm²	Part No.
0.5 - 10	**Q501**

Crimping dies AE 50

Suitable for

- Cable end-sleeves

Cross section mm²	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 mm²	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 mm²	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 mm²	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 mm²	Part No.
0.1 - 1; 1.5 - 2.5; 4	**SB501**

K4 SERIE

K 35/4

EK 35/4 ML

EK 35/4

Crimping dies HR 4

Suitable for

- Tubular cable lugs and connectors - Cu, standard type
- Tubular cable lugs for switchgear connections

Cross section mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm² re/se	Nominal cross section mm² 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 mm² re/sm	Nominal cross section mm² 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 mm²	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

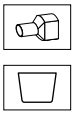
Crimping dies HAES 4

Suitable for

- Cable end-sleeves

Cross section mm²	Part No.	Crimp width mm
10	**HAES410S**	10
16	**HAES416S**	10
25	**HAES425S**	10
35	**HAES435S**	10
50	**HAES450S**	10

Crimping dies HZAE 4

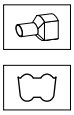


Suitable for

- Twin-cable end-sleeves

Cross section mm²	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 mm²	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

HK 60 UNV + UA5

EK 50/5

EKM 60 UNV + UA5

EK 60 UNV + UA5

PK 60 UNV + UA5

K5 SERIE

Crimping dies HR 5

Suitable for

- Tubular cable lugs and connectors - Cu, standard type

Cross section mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm² re/se	Nominal cross section mm² 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 mm² re/se	Nominal cross section mm² 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 mm²	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

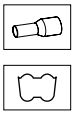
Crimping dies HC 5

Suitable for

- C-clamps

Cross section mm²	Part No.	Crimp width mm
16	**HC516**	5
25	**HC525**	5
35	**HC535**	5

Crimping dies HAES 5

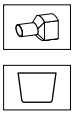


Suitable for

- Cable end-sleeves

Cross section mm²	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 mm²	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

K 18

HK 60/18

HK 60 UNV + UA 18

EK 50/18

EKM 60 UNV + UA18

EK 60 UNV + UA18

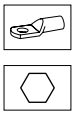
THK 18

PK 18

PK 60 UNV + UA18

K18 SERIE

Crimping dies R



Suitable for

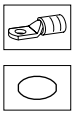
- Tubular cable lugs and connectors - Cu, standard type
- Tubular cable lugs for switchgear connections

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Cross section mm²	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

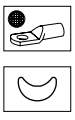


Suitable for

- Insulated tubular cable lugs and connectors
- Insulated pin terminals

Cross section mm²	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

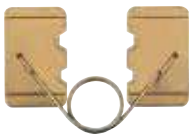


Suitable for

- Tubular cable lugs and connectors for fine stranded conductors

Cross section mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm² re/se	Nominal cross section mm² 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 mm² re/se	Nominal cross section mm² 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 mm²	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

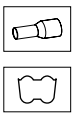
Crimping dies C / MC

Suitable for

- C-clamps

Cross section mm²	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

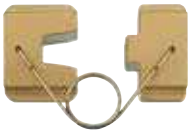


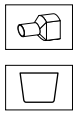
Suitable for

- Cable end-sleeves

Cross section mm²	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



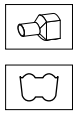


Suitable for

- Twin-cable end-sleeves

Cross section mm²	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 mm²	Part No.	Crimp width mm
4	**ZAES4**	20
6	**ZAES6**	20
10	**ZAES10**	20
16	**ZAES16**	20

K 22

HK 60/22

HK 60 UNV + UA22

EK 60/22

EKM 60/22

K22 SERIE

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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm² re/sm	Nominal cross section mm² 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 mm² re/se	Nominal cross section mm² 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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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

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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	Part No.
70	**HN1370**
95	**HN1395**

Crmping 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 mm²	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 mm²	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 mm²	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 mm²	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 mm² re/sm	Nominal cross section mm² 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

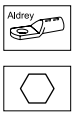
- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Nominal cross section mm² re/se	Nominal cross section mm² 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

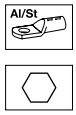
- Compression joints for full tension connections of Aldrey conductors according to DIN EN 50182
- Al-conductor acc. to DIN EN 50182, 120 - 185 mm²

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Cross section mm²	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

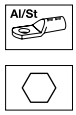
- Compression joints acc. to DIN 48085, part 3 for Al-/St-cable acc. to DIN EN 50182
- Aluminium crimping

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Cross section mm²	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 mm²	Part No.	Code	Crimp width mm
25 - 4 35 - 6	**HST1346**	6	12
50 - 8	**HST138**	7	12
70 - 12 95 - 15	**HST131215**	9	12
120 - 20	**HST1320**	13	12

Crimping dies HC 13 / HMC 13

Suitable for

- C-clamps

Cross section mm²	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 10 - 25 35 - 35	**HMC1335**	18
25 - 50 50 - 50	**HMC1350**	20
35 - 70	**HMC1370**	20

Crimping dies HAH 13

Suitable for

- H-clamps

Cross section mm²	Part No.	Crimp width mm
70	**HAH1370**	30
95	**HAH1395**	30
120	**HAH13120**	20

Crimping dies HAES 13

Suitable for

- Cable end-sleeves

Cross section mm²	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

K15 SERIE

EK 135 FT

Crimping dies HD 15

NEW

DIN

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 mm²	Part No.	Code	Crimp width mm
400 *	**HD15400**	38	7
500 *	**HD15500**	42	7
625 *	**HD15625**	44	7

Crimping dies HA 15

NEW

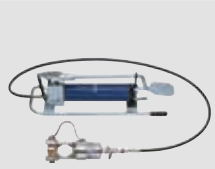
Al

Al/Cu

Suitable for

- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Cross section mm²	Part No.	Code	Crimp width mm
400	**HA15400**	38	15
500	**HA15500**	44	15



HK 25/2

PK 25/2

K25 SERIE

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 HR 25

Suitable for

- Tubular cable lugs and connectors - Cu, standard type
- Tubular cable lugs for switchgear connections

Cross section mm²	Part No.	Crimp width mm
150	**HR25150**	20
185	**HR25185**	20
240	**HR25240**	20
300	**HR25300**	20
400	**HR25400**	20

Crimping dies HF 25

Suitable for

- Tubular cable lugs and connectors for fine stranded conductors

Cross section mm²	Part No.
185	**HF25185**
240	**HF25240**
300	**HF25300**

Crimping dies HD 25

Suitable for

- Compression cable lugs to DIN 46235 - Cu
- Compression joints to DIN 46267, part 1 - Cu

Cross section mm²	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 mm²	Part No.
150	**HQ25150**
185	**HQ25185**
240	**HQ25240**

Crimping dies HISQ 25

Suitable for

- Insulated solderless terminals and pin terminals

Cross section mm²	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 mm² re/se	Nominal cross section mm² 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 mm² re/se	Nominal cross section mm² 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 mm²	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 mm²	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

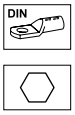
Suitable for

- H-clamps

Cross section mm²	Part No.	Crimp width mm
95	**HAH2595**	20
120	**HAH25120**	30

K45 SERIE

Crimping dies HD 45



Suitable for

- Compression cable lugs to DIN 46235 - Cu
- Compression joints to DIN 46267, part 1 - Cu

Cross section mm²	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

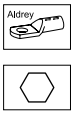
Crimping dies HA 45

Suitable for

- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Cross section mm²	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

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 mm²	Part No.	Code	Crimp width mm
150 - 185	**HAD45150185**	28	20
240	**HAD45240**	34	20
300	**HAD45300**	38	20

PK 1000

K100 SERIE

Crimping dies HD 100

NEW

DIN

Suitable for

- Compression cable lugs to DIN 46235 - Cu
- Compression joints to DIN 46267, part 1 - Cu

Cross section mm²	Part No.	Code	Crimp width mm
625	**HD100625**	44	60
800	**HD100800**	52	40
1000	**HD1001000**	58	40

i 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.

3

Cutting

Mechanical cutting tools	**346**
Battery powered cutting tools	**354**
Platform based on 10.8 V	355
Platform based on 18 V	360
Hand-operated hydraulic cutting tools	**380**
Hydraulic cutting heads and cutting systems	**383**
Hydraulic cutting heads	381
Hydraulic cutting systems	389
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

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 mm² 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 mm² 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 mm² 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 mm² NYY
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 mm² NYY, 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 mm² NAYY, 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**

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 NYY, 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

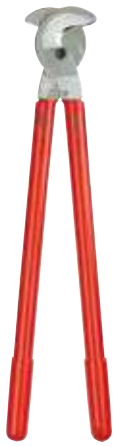
- Not suitable for cutting steel or steel wire

Technical data	
Cutting range	max. 30 mm dia., e.g. 4 x 35 mm² NYY
Length	570 mm
Weight	2.1 kg

Item	Part No.
Hand-operated cutting tool for Cu and Al cables to 30 mm dia.	**K230**

1000 V
IEC 60900

K 250 Hand-operated cutting tool for Al and Cu cables to 50 mm dia.



1000 V IEC 60900

- 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 mm² 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 mm² 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 mm² 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

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

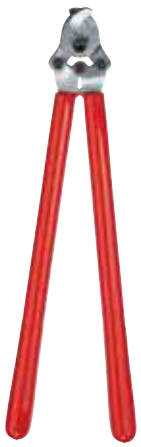
- Two-hand operation
- Maintenance on-site due to replacement of cutting heads
- Safe working thanks to roughened handle
- Not suitable for cutting steel or steel wire

Technical data	
Cutting range	e.g. 4 x 25 mm² 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 IEC 60900

- **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 mm² 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	

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 mm² NYY, ES32FML: approx. 120 at H07V-K 185 mm²
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.

NEW

- 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

- 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

- 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

ESG105RMCCFM

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	

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

IEC

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	

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

NEXT GENERATION

- 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

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

IEC

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

NEXT GENERATION

- 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.

NEXT GENERATION

- 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

IEC

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 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

- 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 armouring
- 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 armouring (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	

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	

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

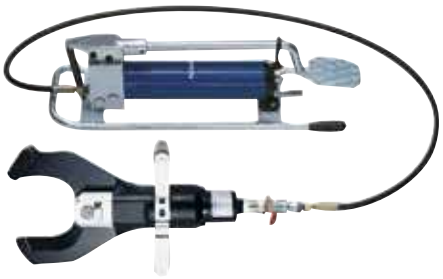
Technical data	
Cutting range	max. 120 mm dia.
Cutting force	55 kN
Operating pressure	max. 700 bar
Length	538 mm
Weight	8.7 kg

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

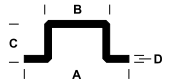
- For burr-free cutting and punching
- Less effort needed
- Includes die plate holder with 5 profiles

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



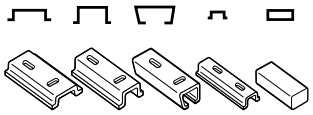
A - 35,0 mm
B - 27,0 mm
C - 7,5 mm
D - 1,0 mm

A - 35,0 mm
B - 27,0 mm
C - 15,0 mm
D - 1,5 mm

A - 34,0 mm
C - 15,0 mm

A - 15,0 mm
B - 10,5 mm
C - 5,5 mm
D - 1,0 mm

A - 10,0 mm
C - 3,0 mm



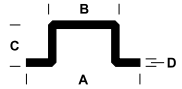
Item	Part No.
DIN profile conductor cutting and punching tool	**50115413**

Profile conductor cutter Compact

- For burr-free cutting to length
- Less effort needed
- Includes die plank holder with 2 profiles

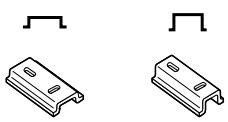
Suitable for

- With holes for workbench assembly
- Manual operation



A - 35,0 mm
B - 27,0 mm
C - 7,5 mm
D - 1,0 mm

A - 35,0 mm
B - 27,0 mm
C - 15,0 mm
D - 1,5 mm



Item	Length of rail guide mm	Length of hand lever mm	Part No.
Profile conductor cutter Compact	1000	850	**52055684**

Wiring conduit cutter

NEW

- 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

K18 SERIE

- 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

VDE
REG F647

1000V

Hydraulic safety tools

VDE-battery powered crimping and cutting tools	**396**
VDE-battery powered crimping tools	**398**
VDE-battery powered cutting tools	**401**
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
REG F647

1000V

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 mm²		
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 mm²		**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 mm²	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 mm²		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, trapezodial, for fine stranded conductors		10 - 240		332
Twin cable end-sleeves, trapezodial, for fine stranded conductors		2 x 4 - 2 x 16		332

EKM 60 ID IS VDE-battery powered hydraulic crimping tool 10 - 240 mm²

NEW

- 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

Technical data	
Crimping force	30 - 60 kN
Stroke / opening width	35.5 mm
Crimping range Cu	10 - 240 mm²
Crimping range Al	50 - 240 mm²
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 mm²	**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

VDE REG F647 1000V

Suitable for	Connection material	Crimping range mm²	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	Al	50 - 240	
Compression joints acc. to DIN 48085, part 3 for Al/St-cable acc. to DIN EN 50182	Al/St	50 - 240	
Aluminum/copper compression cable lugs and connectors			
Aluminum/copper compression cable lugs and connectors	Al/Cu	50 - 240	

ESM 50 IS VDE-battery powered hydraulic cutting tool 50 mm dia. for copper and aluminium cable

NEW

VDE REG F647 1000V

- 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

ESM 35 IS VDE-battery powered hydraulic cutting tool 35 mm dia. for copper and aluminium cable

NEW

- 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

VDE REG F647 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.

NEW

- 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

ES 20 IS VDE battery powered hydraulic cutting tool 20 mm dia.

NEU

- 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)

VDE REG F647 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.

NEU

- 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

VDE REG F647 1000V

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 lives 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 armouring which, in case of a failure, may carry voltages of up to 60 kV
- Single-core lives cables without steel armouring 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.

- DGUV-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 lives 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
- DGUV-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	ASSGG85L	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.	**ASSGG85L**
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 thick-ness	Individual parts for manual operation					Draw studs + Accessories for hydraulic units				Complete unit
									Draw studs			Accessories	
True dimen-sion	Standard size												
mm	Pg	ISO	mm (St37)	Punch	Die	Draw stud with ball bearing	Ball bearing nut	Spacer	Hand hydraulic 7804E, 7904E	Battery powered punch LS 50	Hydr. pump 52084920, 52084941 LS100F LEX	Adapter sleeves 9,5/ 19,0 for 51300430	Part No.
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 thick-ness	Individual parts for manual operation					Draw studs + Accessories for hydraulic units				Complete unit
									Draw studs			Accessories	
True dimen-sion	Standard size												
mm	Pg	ISO	mm (St37)	Punch	Die	Draw stud with ball bearing	Ball bearing nut	Spacer	Hand hydraulic 7804E, 7904E	Battery powered punch LS 50	Hydr. pump 50159062 50250973 LS100F LEX	Adapter sleeves 19,0 / 28,6	Part No.
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

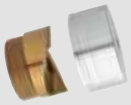
- Draw stud 11.1 mm dia., pilot drill 12.7 mm diameter 50344102
  draw stud 19.0 mm dia., pilot drill 20.5 mm diameter 50344030

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	Part No.
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**

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 mmx 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®	**50294520**

Size	Part No.
11.1 x 108 mm for Slug Splitter®	**50294512**

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

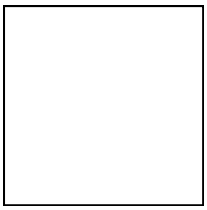
- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

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		Individual parts f. manual operation			Adapter for hydr. punch driver	Mounting hole-dia.	Complete unit
mm	mm (St37)	Operating mode	Draw studs	Ball bearing nut	Counter nut	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

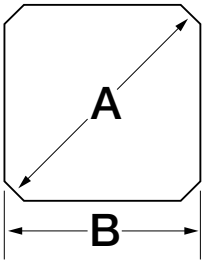
- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

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		Individual parts for manual operation			Adapter for hydr. punch driver	Mounting hole-dia. mm	Complete unit
mm	mm (St37)	Operating mode	Draw studs	Ball bearing nut	Counter nut	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

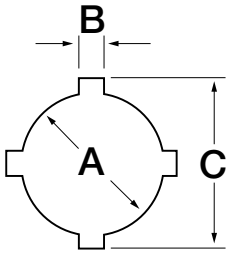
Operation
- Manual / hydraulic

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		Individual parts for manual operation			Adapter for hydr. punch driver	Mounting hole-dia. mm	Complete unit
mm	mm (St37)	Operating mode	Draw studs	Ball bearing nut	Counter nut	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

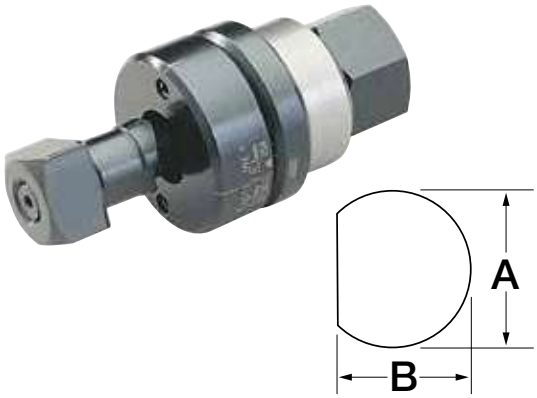
Operation
- Manual / hydraulic

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		Individual parts for manual operation			Adapter for hydr. punch driver	Mounting hole-dia. mm	Complete unit
mm	mm (St37)	Operating mode	Draw studs	Ball bearing nut	Counter nut	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**

„D“ shaped punch



Suitable for
- Mild steel (St37), plastic and aluminium to 2.0 mm

Operation
- Manual / hydraulic

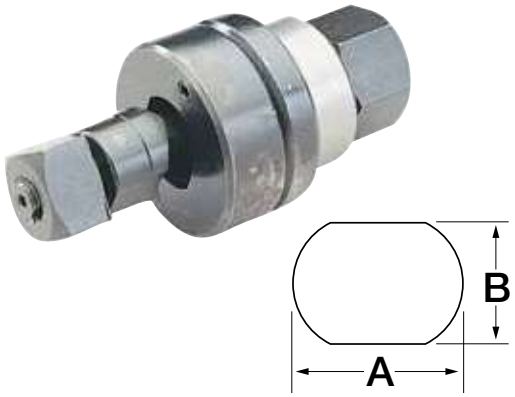
Predrilling
- 12.7 dia. mm pilot drill 50344102

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		Individual parts for manual operation			Adapter for hydr. punch driver	Mounting hole-dia. mm	Complete unit
mm	mm (St37)	Operating mode	Draw studs	Ball bearing nut	Counter nut	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

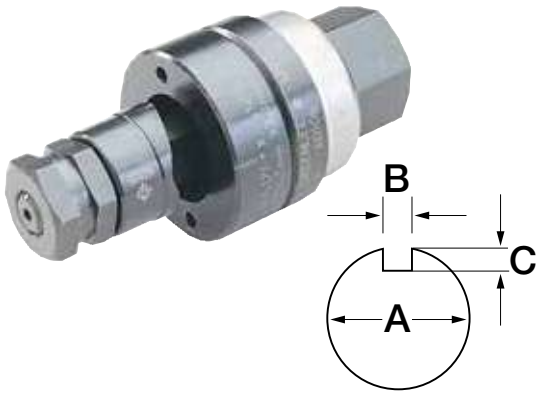
Predrilling
- 15.9 mm dia. pilot drill 50344030

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		Individual parts for manual operation			Adapter for hydr. punch driver	Mounting hole-dia. mm	Complete unit
mm	mm (St37)	Operating mode	Draw studs	Ball bearing nut	Counter nut	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

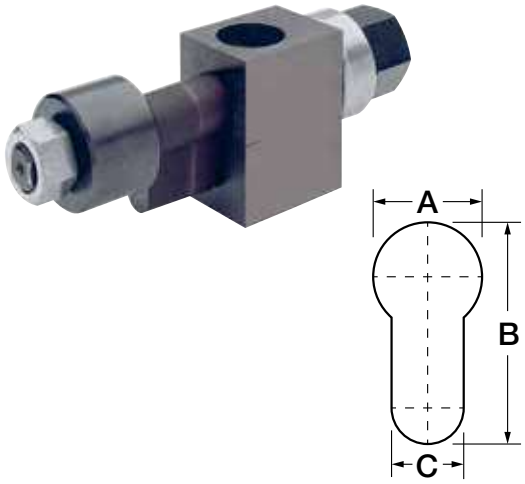
Operation
- Manual / hydraulic

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		Individual parts for manual operation			Adapter for hydr. punch driver	Mounting hole-dia. mm	Komplettlocher
mm	mm (St37)	Operating mode	Draw studs	Ball bearing nut	Counter nut	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

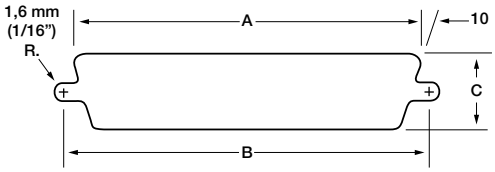
Operation
- Manual / hydraulic

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		Individual parts for manual operation				Adapter for hydr. punch driver	Mounting hole-dia. mm	Komplettlocher
mm	mm (St37)	Operating mode	Draw studs	Ball bearing nut	Counter nut	Spacer bushing	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**

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

Sta3ndard	Number Pole		Dimension			Individual parts for manual operation			Adapter for hydr. punch driver	Complete unit
		Operating mode	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

	Punch size A x B	Max. Material thickness		Individual parts for manual operation		Mounting hole-dia.	Complete unit
Item	mm	mm	Operating mode	Draw studs	Counter nut	mm	Part No.
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**

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.
6.3 x 87 mm	**50601156**

Size	Part No.
12.7 x 117 mm	**50601660**

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™

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!

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

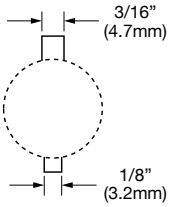
- Mild steel (St37) to 2.5 mm thickness
- Stainless steel to 2.5 mm thickness
- 19mm, ¾" threaded draw stud

Additional information

- When using the Quick Draw Series or LS50Flex, short spacer (part no. 50032488) is required

Item	Part No.	
KWSET	**52086978**	
Acessory	**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	LB0XXLS50FLEXCFB		203
L-BOXX with flexible battery powered hydraulic punch LS50FLEXCFM		LB0XXLS50FLEXCFM	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	

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	

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 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 Electro II	52059293SET Universal	50069497SET ISO 16-63	52059294SET Plumbing	50292099SET 830PG	52059295SET Standard	50125630SET Electro
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	

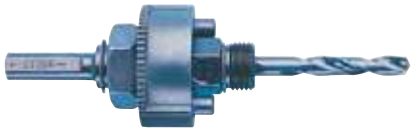
Arbor for HSS bi-metal hole saws 14 - 30 mm

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

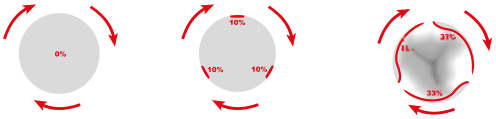
Suitable for

- 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	634	**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 Greenlee-Draw stud 9.7	40	1	6.4	**50360183**
Kwik Stepper™ step bit 12.7 mm	12.7	Predrilling for Greenlee-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 Greenlee-Draw stud	99	1	9,5	**52084126**
Kwik Stepper™ step bit 12 mm	12	Predrilling for Greenlee-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

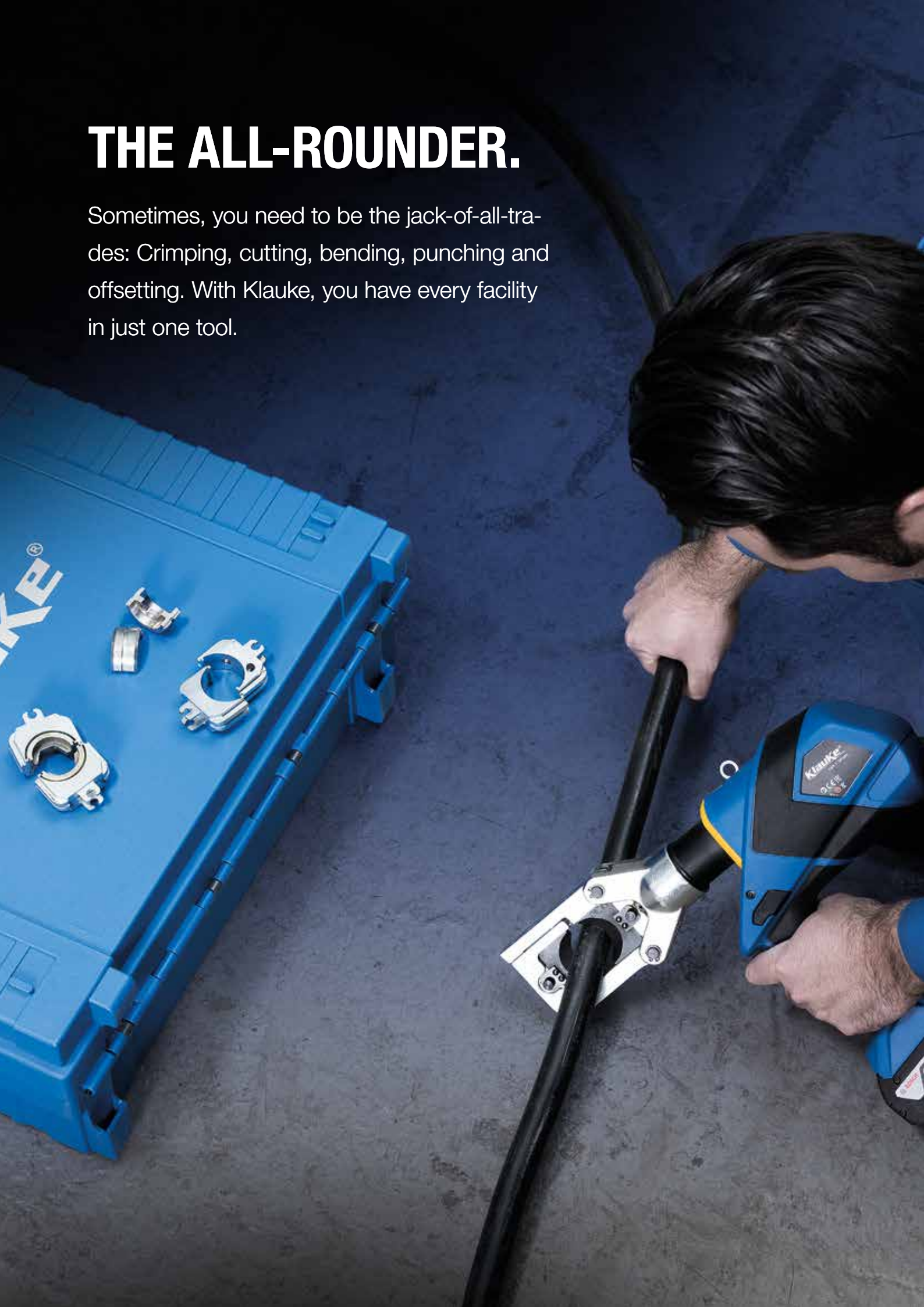
- For use with St37, non-ferrous metals, stainless steel and plastics

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

6

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

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

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.

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 mm²
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	

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 mm² Cu DIN
Cutting range	max. 40 mm dia.
Number of cuts	approx. 110 at 4 x 70 mm² 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

IEC

K22 SERIE K18 SERIE K5 SERIE

Technical data	
Crimping force	60 kN
Stroke	42 mm
Crimping range	6 - 300 mm²
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 mm²	**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

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 mm²
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 mm²	**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

Technical data	
Crimping force	108 kN
Stroke	42 mm
Crimping range	10 - 400 mm²
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 mm²	**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	
Application: crimping			6 ton	12 ton
	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			6 ton	12 ton
	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 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 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 107 mm² type AC for catenary wires in railway construction	**UCAC107**	●	●
	Cutting die 85 mm² type BC for catenary wires in railway construction	**UCBC85**	●	●
	Cutting die 110 mm² type BC for catenary wires in railway construction	**UCBC110**	●	●
	Cutting die 120 mm² type BC for catenary wires in railway construction	**UCBC120**	●	●
	Cutting die 150 mm² type BC for catenary wires in railway construction	**UCBC150**	●	●
Application: Punching			6 ton	12 ton
	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 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**

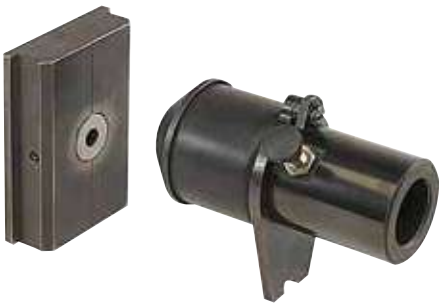
Characteristics

- 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**

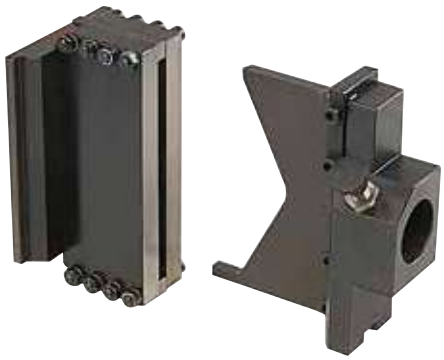
Punch & die for punching tool III

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.

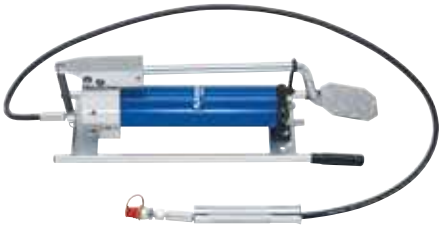
- Pumps delivering up to 700 bar pressure
- Compact dimensions for portable use
- Simple operation via hand switch with 1.5 m cable
- Display with reverse function
- Hydraulic hose up to 10 m long available

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**

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**

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**

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

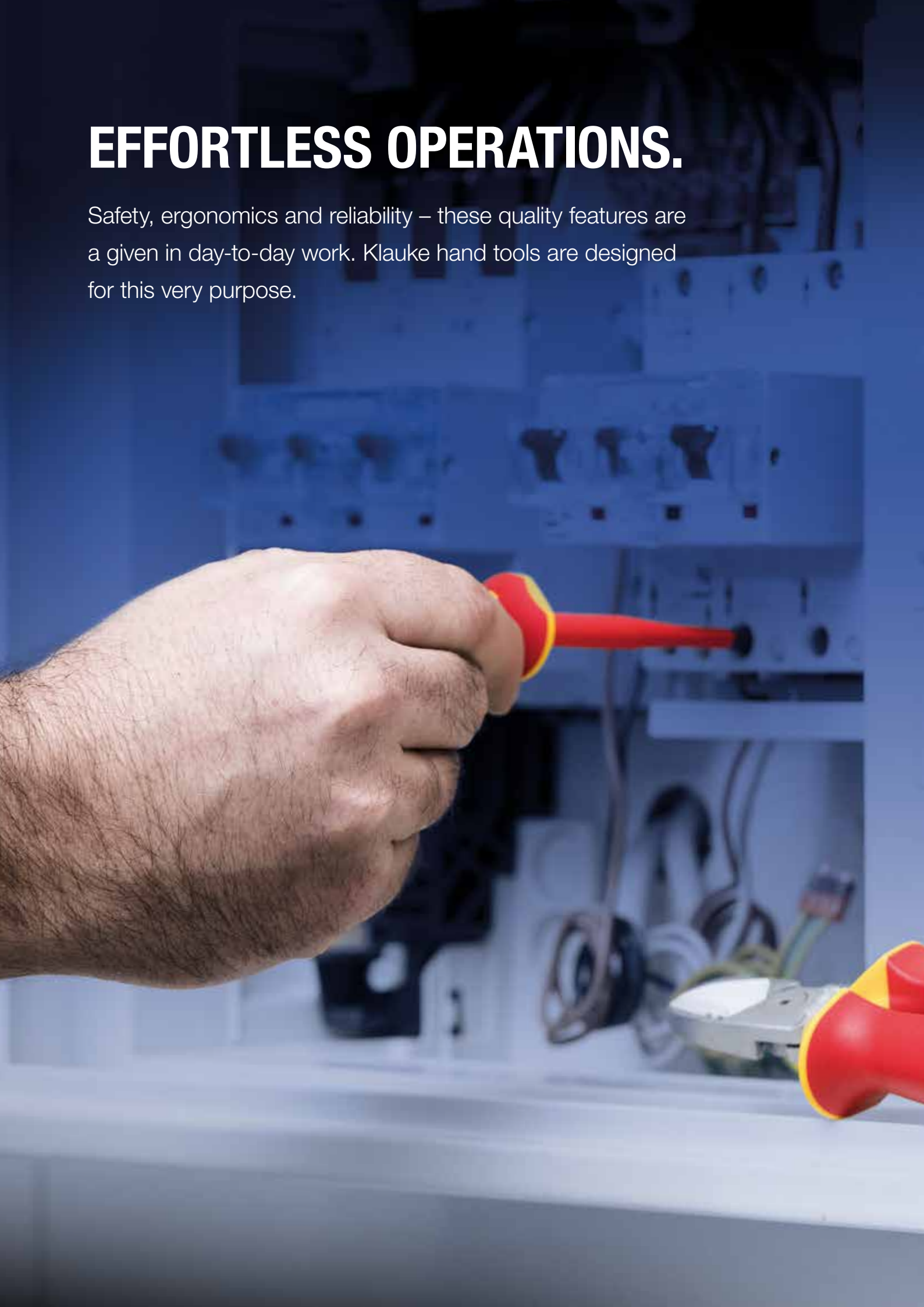
Suitable for

- 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 °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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

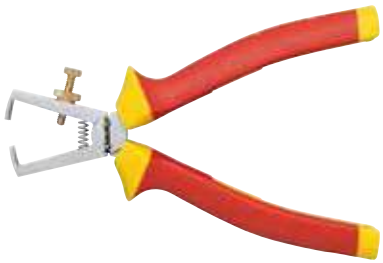
1000V IEC 60900

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



1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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 mm²
Dimension mm	215
Weight g	130

VDE Slotted screwdriver

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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

1000V IEC 60900

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.

1000V IEC 60900

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.

1000V IEC 60900

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.

1000V IEC 60900

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.

1000V IEC 60900

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

1000 V IEC 60900

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 ¼" 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

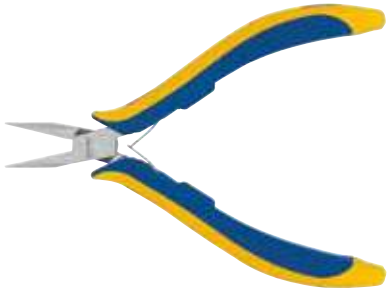
- Precision pliers for high precision work
- Double leaf spring with low friction
- High cutting force thanks to additional induction hardening
- Anti-static ergonomic non slip grips
- Surface resistance amounts to 1 to 100 MOhm

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 MOhm
- 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	Dimen-sion 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	Dimen-sion 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	Dimen-sion 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 mm²	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 - 13mm²	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 mm²	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.

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!

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

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 mm²	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.	Page
Interchangeable cassette, black, for wire-stripping tool K432 0.02 - 10 mm² flexible conductors and to 1.5 mm² solid conductors	**K432E**	
Interchangeable cassette, blue, for wire-stripping tool K432 for PTFE insulated conductors 0.1 - 4 mm²	**K432E2**	
Interchangeable cassette, red, for wire-stripping tool K432 / 4 - 16 mm²	**K432E3**	

Automatic wire stripper, 4 - 16 mm²

NEW

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 mm²	Weight g	Part No.
Automatic wire stripper, 4 - 16 mm²	190	4 -16	140	**K432U**

Accessories	Part No.	Page
Wechselkassette rot für massive u. flexible Kabel 4 - 16 mm²	K432E3	

Automatic wire stripper, 0.08 - 4 mm²

NEW

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 mm²	Weight g	Part No.
Automatic wire stripper, 0.1 - 4 mm²	190	0.08 - 4	140	**K432V**

Accessories	Part No.	Page
Detachable magazine, blue for solid and flexible cables from 0.1 - 4 mm²	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 mm²	Weight g	Part No.
Wire stripper with stepless stripping range 0.03 - 16 mm²	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	Dimen-sion mm	Stripping range mm²	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 mm²	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 mm²	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.	Page
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.	Page
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.	Page
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**

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
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
Cable puller	**544**
Easy Roller (cable drum unwinder), Easy Roller Plus	544
Cable puller with accessory	545
Pulling grips	**547**
Pulling grips, closed	547
Pulling grips, open	548
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

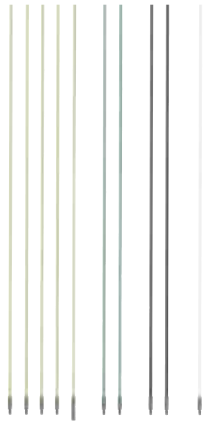
Flex-O-Twist™ speed flex leader

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 fi sh 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

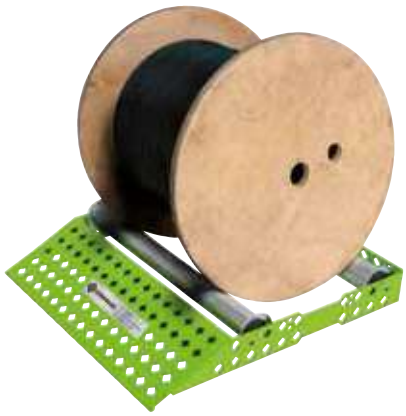
Characteristics

- 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**

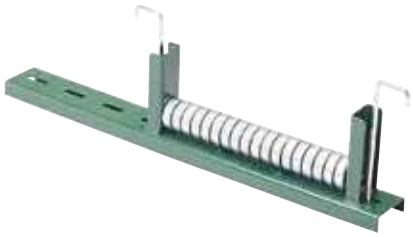
Platform-type sheave 125 mm

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

Legend of pictograms used for connecting materials **i-3**

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

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

Processing instructions for screw connectors **i-8**

Check-list for custom made cable lugs and connectors **i-9**

Check-list for custom made crimping dies **i-10**

Conversion charts **i-11**

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

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

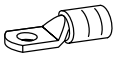
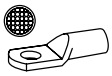
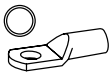
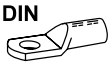
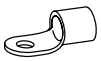
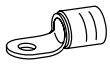
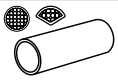
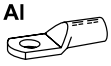
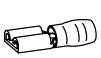
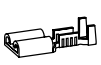
Please consider the material of the conductor (Cu, Al and Cu/Al). This information is shown in the pictogram.

Legend of pictograms used for type of conductors

	Type of cables
	Solid conductor (class 1 according to DIN EN 60228) made of bright or coated soft-annealed copper, 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 conductor (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
	Superfine stranded conductor (class 6 according to DIN EN 60228) made of bright or coated soft-annealed copper
	Solid sector shaped conductor 120 ° (class 1 according to DIN EN 60228) made of aluminium or aluminium alloy

	Type of cables
	Solid sector shaped conductor 90 ° (class 1 according to DIN EN 60228) made of 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 sector shaped conductor 90 ° (class 2 according to DIN EN 60228) made of bright or coated soft-annealed copper, aluminium or aluminium alloy
	Copper conductor for overhead lines (DIN 48201-1) and aluminium or aluminium alloy conductors (DIN EN 50182)
	Conductor for overhead lines (DIN EN 50182) made of aluminium / steel

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.

	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	
Nominal cross-section mm²	**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.

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

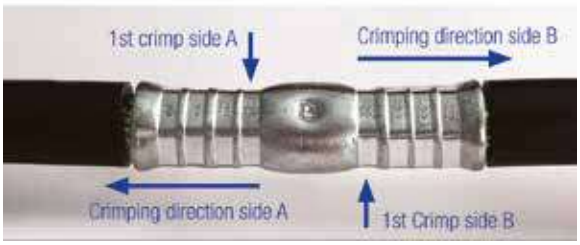
- Our aluminium cable lugs and connectors are suitable for connecting aluminium cables according to DIN EN 60228 and aluminium conductors according to DIN EN 50182. Please use the table below.

i 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 mm²	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:

	Tubular cable lugs			Cable lugs DIN 46235		Al-Cable lugs		
Cross-section in mm²	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 !

i 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

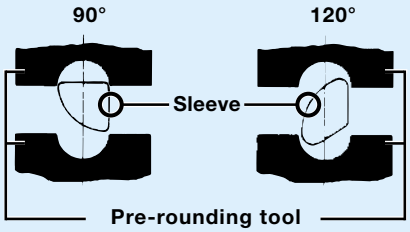
We recommend the use of additional VHR and VHD sleeves for compacted round conductors to ensure that the tubular cable lugs and connectors fit accurately.

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)

4 / 5



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

4

5

6

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.

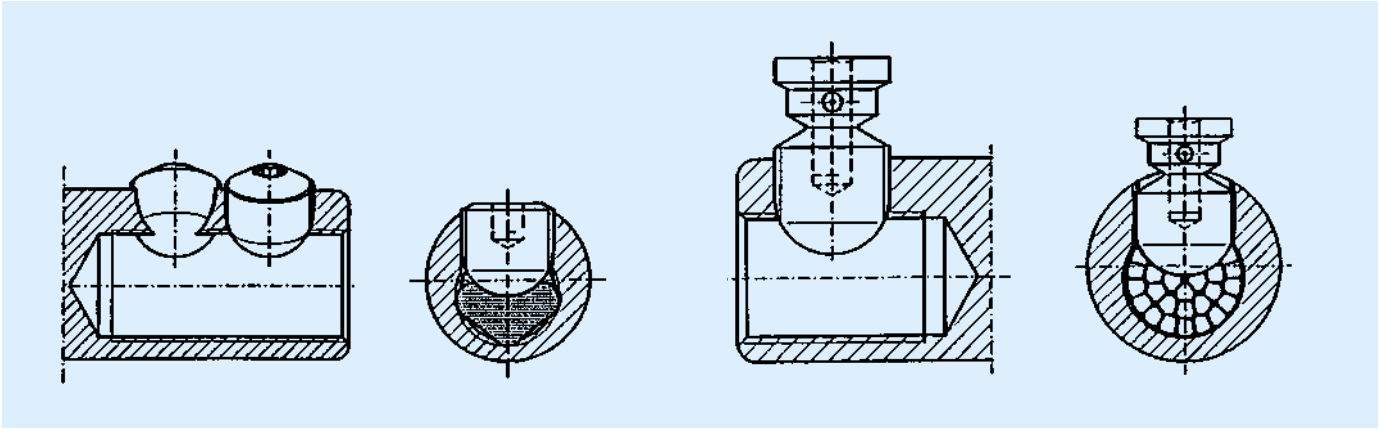
Insertion depth of conductors is controlled either by the conductor stop at the barrier, or by inspection hole on screw connectors without barrier.

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*: .....

Cable lugs und Verbinder

Material*: ☐ Cu ☐ Al ☐ Ni ☐ V4A ☐ V2A

Other: .....

Surface*: ☐ tin-plated ☐ bright ☐ nickel-plated

Other: .....

* Required fields

Commercial Data

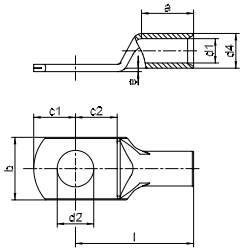
Batch size / Annual requirement*: ..... ☐ einmalig

Partial shipments*: ☐1 ☐2 ☐3 ☐ .....

Additional agreements: .....

.....

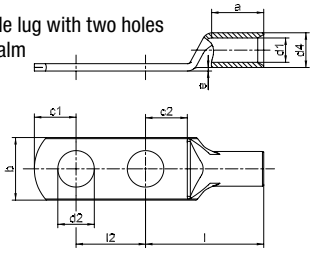
☐ Cable lug



Dimension d4 .....
Dimension d1 .....
Dimension d2 .....
Dimension a .....
Dimension l .....
Dimension b .....
Dimension c1 .....
Dimension c2 .....
Dimension e .....

Inspection hole ☐ Yes ☐ No

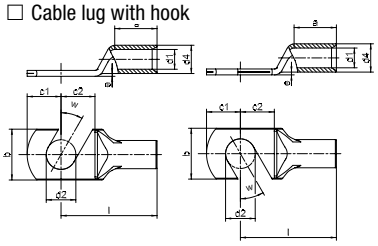
☐ Cable lug with two holes in palm



Dimension d4 .....
Dimension d1 .....
Dimension d2 .....
Dimension a .....
Dimension l .....
Dimension b .....
Dimension c1 .....
Dimension c2 .....
Dimension e .....

Inspection hole ☐ Yes ☐ No

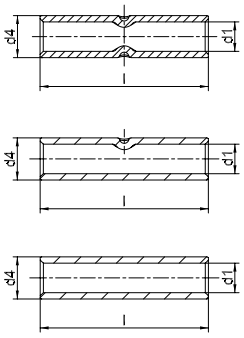
☐ Cable lug with hook



Dimension d4 .....
Dimension d1 .....
Dimension d2 .....
Dimension a .....
Dimension l .....
Dimension b .....
Dimension c1 .....
Dimension c2 .....
Dimension e .....
Angle wh .....

Inspection hole ☐ Yes ☐ No

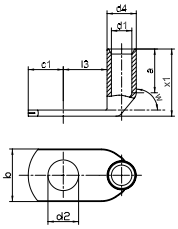
☐ Connector



Dimension d4 .....
Dimension d1 .....
Dimension l .....

Number of butt marks: 0 / 1 / 2 .....

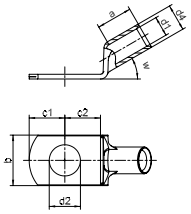
☐ Angle cable lug from 30° to 90°



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): .....

VA-700/800 Index c

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 reqirement*: ..... ☐ one-off
Partial shipments*: ☐1 ☐2 ☐3 ☐ .....
Additional agreements: .....

* Required items

Characteristics crimping dies

Series

☐ K 4 ☐ K 5 ☐ K 18
☐ K 22 ☐ K 13 ☐ K 25
☐ K 45 ☐ K 50 ☐ K 100

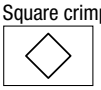
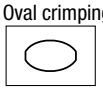
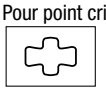
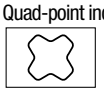
Other: .....

Attached

Sketch: ☐ yes ☐ no
Drawing: ☐ yes ☐ no
Sample: ☐ yes ☐ no

Other: .....

Crimping profile

☐ Hexagonal crimping
☐ Round crimping
☐ Double indent crimping
☐ Gas-tight oval crimping
☐ Roll crimping
☐ Indent crimping
☐ Special trapezoid crimping
☐ Square crimping 
☐ Oval crimping 
☐ Pour point crimping 
☐ Trapezoid crimping
☐ Indent crimping
☐ Quad-point indent crimping 
☐ 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): .....

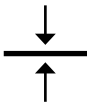
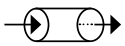
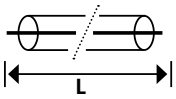
Assignment of conductor cross sections (AWG or MCM sizes to mm²)

AWG	Metric conductor cross-section mm²	Comparable conductor cross-section mm²	MCM	Metric conductor cross-section mm²	Comparable conductor cross-section mm²
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 mm²	1 cu. In.	16.386 cm³	1 pint	0.568 l	1 grain	0.059 g
1 inch (Zoll)	25.4 mm	1 sq. ft.	0.093 m²	1 cu. Ft.	0.028 m³	1 quart	1.136 l	1 ounce	28.349 g
1 foot	0.3048 m	1 sq. yd.	0.836 m²	1 cu. Yd.	0.764 m³	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 Multi-core and symmetrical conductors for digital message transmission

IEC 1156-1 Basic specification

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)

608 General specification for symmetrical conductors for digital message transmission

EN 50167 Framework specification for service cables

EN 50168 Framework specification for patch and equipment connecting cables

EN 50169 Framework specification for building connection and rising cablesl

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)

TSB 40 Framework specification for passive components (100 Ohm, unsheathed)

EIA/TIA 568 Framework specification for cabling systems

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
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-BOXXes	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
101R5	56
101R6	56
101R8	56
1020	157
1020V	158
102R5	56
102R6	56
102R8	56
1030	157
1030V	158
103R10	56
103R12	56
103R6	56
103R8	56
104R10	56
104R12	56
104R6	56
104R8	56
1050	157
1050V	158
105R10	56
105R12	56
105R14	56
105R6	56
105R8	56
106R10	57
106R12	57
106R14	57
106R16	57
106R8	57
107R10	57
107R12	57
107R14	57
107R16	57
107R8	57
108R10	57
108R12	57
108R14	57
108R16	57
108R8	57
109R10	57
109R12	57
109R14	57
109R16	57
109R20	57
10B	29
10B10	28
10B5	28
10B6	28
10B8	28
10R10	15
10R12	15
10R14	15
10R16	15
10R20	15
10R8	15
10SG10	16
10SG12	16
10SG6	16
10SG8	16
110R10	57
110R12	57
110R14	57
110R16	57
110R20	57
111R10	57
111R12	57
111R14	57
111R16	57
111R20	57
112R12	57
112R14	57
112R16	57
112R20	57
1130	162
113R12	57
113R14	57
113R16	57
113R20	57
114R14	57
114R16	57
114R20	57
1150	162
115R16	57
115R20	57
116R16	57
116R20	57
117R16	57
117R20	57
118R16	57
118R20	57
11R10	15
11R12	15
11R14	15
11R16	15
11R20	15
11SG10	16
11SG12	16
11SG16	16
120B	29
120B10	29
120B12	29
120B16	29
121R	64
122R	64
123R	64
124R	64
125R	64
126R	64
127R	64
128R	64
129R	64
12R10	15
12R12	15
12R14	15
12R16	15
12R20	15
12SG10	16
12SG12	16
12SG16	16
130R	64
131R	64
132R	64
133R	64
134R	64
135R	64
136DP12	63
136DP212	63
136R	64
137DP12	63
137DP212	63
137R	64
138DP12	63
138DP212	63
138R	64
139DP12	63
139DP212	63
13R12	15
13R14	15
13R16	15
13R20	15
13SG10	16
13SG12	16
13SG16	16
147D212	62
148D212	62
148R	22
149D212	62
149R	22
14R12	15
14R14	15
14R16	15
14R20	15
150B	29
150B10	29
150B12	29
150D212	62
150R	22
151D212	62
151R	22
152D212	62
152R	22
153R	22
154R	22
155R	22
156R	22
157R	22
158R	22
159R	22
160R	22
161R	22
161R5	58
161R545	60
161R6	58
161R645	60
162010	74
162025	74
16203	74
162035	74
16204	74
16205	74
16206	74
16208	74
1620C3	78
1620C35	78
1620C4	78
1620C5	78
1620C6	78
1620K	80
1620L	81
162R	22
162R5	58
162R545	60
162R6	58
162R645	60
162R8	58
162R845	60
163010	74
163012	74
16303	74
163035	74
16304	74
16305	74
16306	74
16308	74
1630C3	78
1630C35	78
1630C4	78
1630C5	78
1630C6	78
1630K	80
1630L	81
163R	22
163R10	58
163R1045	60
163R12	58
163R1245	60
163R6	58
163R645	60
163R8	58
163R845	60
164R10	58
164R1045	60
164R12	58
164R1245	60
164R6	58
164R645	60
164R8	58
164R845	60
165010	74
165012	74
16504	74
16505	74
16506	74
16508	74
1650C4	78
1650C5	78
1650C6	78
1650C8	78
1650K	80
1650L	81
165210	74
165212	74
16525	74

Part No.	Page
16526	74
16528	74
1652C5	78
1652C6	78
1652K	80
1652L	81
165310	74
165312	74
16535	74
16536	74
16538	74
1653C6	78
1653K	80
1653L	81
165410	75
165412	75
165416	75
16545	75
16546	75
16548	75
1654K	80
1654L	81
165510	75
165512	75
165516	75
16556	75
16558	75
1655K	80
1655L	81
165610	75
165612	75
165616	75
16566	75
16568	75
1656K	80
1656L	81
165710	75
165712	75
165716	75
16576	75
16578	75
1657K	80
1657L	81
165810	75
165812	75
165816	75
16588	75
1658K	80
1658L	81
165910	75
165912	75
165916	75
16598	75
1659K	80
1659L	81
165R10	58
165R1045	60
165R12	58
165R1245	60
165R14	58
165R8	58

Part No.	Page
165R845	60
166010	75
166012	75
166016	75
1660K	80
1660L	81
166112	75
166116	75
166212	75
166216	75
1666	142
1668	142
166GR	140
166GRL	140
166R10	58
166R1045	60
166R12	58
166R1245	60
166R14	58
166R1445	60
166R16	58
166R1645	60
166R8	58
166R845	60
1676	142
1678	142
167H	140
167HL	140
167R10	59
167R1045	61
167R12	59
167R1245	61
167R14	59
167R16	59
167R1645	61
167R8	59
167R845	61
1686	142
1688	142
168R10	59
168R1045	61
168R12	59
168R1245	61
168R14	59
168R1445	61
168R16	59
168R1645	61
168T	140
168TL	140
1696	142
1698	142
1690	140
1690H	140
1690K	140
169R10	59
169R1045	61
169R12	59
169R1245	61
169R14	59
169R1445	61
169R16	59

Part No.	Page
169R1645	61
169R20	59
169R2045	61
16B	29
16B10	28
16B12	28
16B6	28
16B8	28
1706	142
1708	142
170R10	59
170R1045	61
170R12	59
170R1245	61
170R14	59
170R1445	61
170R16	59
170R1645	61
170R20	59
170R2045	61
170W	141
170WH	141
170WK	141
170WL	141
1716	142
1718	142
171G	141
171GH	141
171GK	141
171GL	141
171R10	59
171R1045	61
171R12	59
171R1245	61
171R14	59
171R1445	61
171R16	59
171R1645	61
171R20	59
171R2045	61
1720	165
17210	142
17212	142
17218	142
1726	142
1728	142
172R12	59
172R1245	61
172R14	59
172R1445	61
172R16	59
172R1645	61
172R20	59
172RH	141
172RK	141
172RL	141
172RM	141
172RO	141
1730	165
1730AZ	165
17312	142

Part No.	Page
17318	142
1738	142
173B	141
173BH	141
173BL	141
17410	142
17412	142
17418	142
174GR	141
174GRH	141
174GRL	141
1750	165
17512	142
17518	142
175S	141
175SL	141
17612	143
17618	143
176E	141
176EL	141
17712	143
17718	143
177GR	141
177GRL	141
17816	143
17818	143
17822	143
178BR	141
178BRL	141
179B	141
179BL	141
17R	21
1800	141
1800L	141
181R	67
18201A	165
18202	165
18203	165
18203AZ	165
18251	165
18251A	165
182R	67
1830	167
18303	165
18303AZ	165
183R	67
184R	67
185B	29
185B10	29
185B12	29
185B16	29
185R	67
186R	67
187R	67
188R	67
189R	67
18R	21
190R	67
191R	67
192R	67
193R	67

Part No.	Page
19R	21
1R10	14
1R12	14
1R5	14
1R6	14
1R8	14
2010	169
2020	169
2025	169
202R6	96
202R8	96
2030	169
2035	169
203R10	96
203R8	96
2040	168
2045	168
204R10	96
204R8	96
205R10	96
205R12	96
2060	168
206R10	96
206R12	96
2070	168
2075	168
207R10	96
207R12	96
2080	168
2083	168
208R10	96
208R12	96
208R16	96
2090	168
209R12	96
209R16	96
20R	21
2100	168
2105	168
210R12	96
210R16	96
2115	168
211R12	96
211R16	96
211R20	96
2123	169
212R12	96
212R16	96
212R20	96
213R16	96
213R20	96
2140	169
2145	169
214R16	96
214R20	96
21R	21
2220	167
222R	97
2230	167
2235	167
223R	97
224R	97
2250	167
225R	97
226R	97
227R	97
228R	97
229R	97
22R	21
230R	97
231R	97
232R	97
233R	97
234R	97
235R	97
23R	21
240B	29
240B12	29
240B16	29
243R	101
244R	101
245R	101
246R	101
247R	101
248R	101
249R	101
24R	21
250R	101
251R	101
252R	101
253R	101
25A13	339
25B	29
25B10	28
25B12	28
25B6	28
25B8	28
25R	21
263R10	94
263R8	94
264R10	94
264R12	94
264R8	94
265R10	94
265R12	94
265R8	94
266R10	94
266R12	94
266R8	94
267R10	94
267R12	94
267R8	94
268R10	94
268R12	94
268R16	94
269R10	94
269R12	94
269R16	94
26R	21
270R10	94
270R12	95
270R16	95
271R10	95
271R12	95
271R16	95
271R20	95
2720	166
272R10	95
272R12	95
272R16	95
272R20	95
2730	166
273R12	95
273R16	95
273R20	95
274R12	95
274R16	95
274R20	95
2750	166
2755	167
275R12	95
275R16	95
275R20	95
2760	167
2770	168
2775	168
2780	168
2785	168
2790	168
27R	21
284R16	100
285R25	100
286R25	100
286R35	100
287R25	100
287R35	100
287R50	100
288R25	100
288R35	100
288R50	100
288R70	100
289R70	100
289R95	100
28R	21
290R120	100
290R70	100
290R95	100
291R120	100
291R150	100
292R120	100
292R150	100
292R95	100
29R	21
2R10	14
2R12	14
2R5	14
2R6	14
2R8	14
300B	29
300B12	29
300B16	29
302R6	109
302R8	109
303R10	109
303R8	109
304R10	109
304R8	109
305R10	109
305R12	109
306R10	109
306R12	109
307R10	109
307R12	110
308R10	110
308R12	110
308R16	110
309R12	110
309R16	110
30R	21
310R12	110
310R16	110
311R12	110
311R16	110
311R20	110
312R12	110
312R16	110
312R20	110
313R16	110
313R20	110
314R16	110
314R20	110
31R	21
322R10	111
322R16	111
323R10	111
323R16	111
324R10	111
324R16	111
324R25	111
324R35	111
324R416	111
324R50	111
325R16	111
325R25	111
325R35	111
325R50	111
325R616	111
325R625	111
325R635	111
326R16	111
326R25	111
326R35	111
326R50	111
327R120	112
327R16	111
327R25	112
327R35	112
327R50	112
327R70	112
327R95	112
328R120	112
328R16	112
328R25	112
328R35	112

Part No.	Page
328R50	112
328R70	112
328R95	112
329R120	112
329R35	112
329R50	112
329R70	112
329R95	112
32R	21
330R120	112
330R150	112
330R16	112
330R25	112
330R35	112
330R50	112
330R70	112
330R95	112
331R120	112
331R150	112
331R185	112
331R50	112
331R70	112
331R95	112
332R120	112
332R150	112
332R185	112
332R240	112
332R50	112
332R70	112
332R95	112
333R120	112
333R150	112
333R185	112
333R240	112
333R300	112
33R	21
344R	113
345R	113
346R	113
347R	113
348R	113
349R	113
34R	21
350R	113
351R	113
352R	113
353R	113
35B	29
35B10	28
35B12	28
35B8	28
363R10	108
363R8	108
364R10	108
364R12	108
364R8	108
365R10	108
365R12	108
365R8	108
366R10	108
366R12	108

Part No.	Page
366R8	108
367R10	108
367R12	108
367R8	108
368R10	108
368R12	108
368R16	108
368R8	108
3698	143
369R12	108
369R16	108
369R8	108
3708	143
370R12	108
370R16	108
370R20	108
3718	143
371R10	108
371R12	108
371R16	108
371R20	109
3720	166
3725	166
3728	143
372R10	109
372R12	109
372R16	109
372R20	109
3735	166
3738	143
373R12	109
373R16	109
373R20	109
374R12	109
380/-	144
380/+	144
380/0 bis 9	144
380/A bis Z	144
3R10	14
3R12	14
3R5	14
3R6	14
3R8	14
405R	98
406R	98
407R	98
408R	98
409R	98
410R	98
411R	98
412R	98
413R	98
414R	98
416R	98
417R	98
418R	98
419R	98
41R10	17
41R1045	19
41R12	17
41R1245	19

Part No.	Page
41R5	17
41R545	19
41R6	17
41R645	19
41R8	17
41R845	19
420R	98
421R	98
422R	98
423R	98
424R	98
425R25	99
426R35	99
428R50	99
428R70	99
429R70	99
429R95	99
42R10	17
42R1045	19
42R12	17
42R1245	19
42R5	17
42R545	19
42R6	17
42R645	19
42R8	17
42R845	19
430R120	99
430R70	99
430R95	99
431R120	99
431R150	99
431R70	99
431R95	99
43210	144
4328	144
432R120	99
432R150	99
432R185	99
43312	144
4338	144
433R150	99
433R185	99
433R240	99
43410	144
434R300	99
43512	144
43612	144
43712	144
43R10	17
43R1045	19
43R12	17
43R1245	19
43R5	17
43R545	19
43R6	17
43R645	19
43R8	17
43R845	19
44R10	17
44R1045	19

Part No.	Page
44R12	17
44R1245	19
44R14	17
44R1445	19
44R5	17
44R545	19
44R6	17
44R645	19
44R8	17
44R845	19
455R	102
456R	102
457R	102
458R	102
459R	102
45R10	17
45R1045	19
45R12	17
45R1245	19
45R14	17
45R16	17
45R1645	19
45R6	17
45R645	19
45R8	17
45R845	19
46910	139
4696	139
4698	139
46R10	18
46R1045	20
46R12	18
46R1245	20
46R14	18
46R16	18
46R1645	20
46R20	18
46R6	18
46R645	20
46R8	18
46R845	20
47010	139
47012	139
4706	139
4708	139
47110	139
47112	139
4716	139
4718	139
47210	139
47212	139
47218	139
4726	139
4728	139
47312	139
47318	139
4738	139
47410	139
47412	139
47418	139
47512	139

Part No.	Page
47518	139
47612	139
47618	139
47712	140
47718	140
47816	140
47818	140
47822	140
47916	140
47918	140
47925	140
47R10	18
47R1045	20
47R12	18
47R1245	20
47R14	18
47R1445	20
47R16	18
47R1645	20
47R20	18
47R2045	20
47R6	18
47R645	20
47R8	18
47R845	20
48020	140
48025	140
48121	140
48225	140
48327	140
48432	140
48R10	18
48R1045	20
48R12	18
48R1245	20
48R14	18
48R16	18
48R1645	20
48R20	18
48R2045	20
48R8	18
48R845	20
49R10	18
49R1045	20
49R12	18
49R1245	20
49R14	18
49R1445	20
49R16	18
49R1645	20
49R20	18
49R8	18
49R845	20
4R10	14
4R12	14
4R14	14
4R5	14
4R6	14
4R8	14
50000420	419
50008722	546
50008730	546
50008749	546
50016962	541
50024086	414
50024094	414
50024337	414
50031708	420
50040405	419
50041886	419
50042181	419
50052128	471
50052144	473
50052152	473
50052160	473
50052241	471
50052250	471
50052276	472
50052284	472
50052292	472
50052306	472
50052314	472
50052322	472
50052330	472
50052349	472
50052357	472
50052365	472
50052373	472
50052381	472
50053043	428
50053078	425
50067273	416
50068920SET	445
50069292	454
50069497SET	452
50069519	417
50069527	417
50069535	417
50069543	417
50069551	417
50069560	417
50069578	417
50069586	417
50069594	417
50069608	417
50069616	417
50069624	417
50069632	417
50069640	417
50069659	417
50069667	417
50069691	454
50069845	459
50069853	459
50069861	459
50069870	459
50069888	459
50069900	460
50115286	472
50115294	472
50115308	472
50115316	472
50115324	472
50115332	472
50115340	472
50115359	472
50115367	472
50115375	472
50115383	472
50115391	472
50115413	391
50115472	438
50115723	422
50121510	460
50125630SET	452
50125630SET	453
50125701	392
50132849	482
50153323	546
50186353	415
50188860	414
50188879	414
50188909	415
50188917	415
50188925	415
50190946	546
50191314	450
50191772	451
50191780	451
50191799	451
50191802	451
50191810	451
50191829	451
50191837	451
50191845	451
50199803	415
50206672	414
50206680	414
50206702	414
50206710	414
50206737	414
50206761	415
50206788	415
50206796	415
50211153	414
50212141	415
50212168	415
50215191	415
50225634	414
50225642	414
50225650	415
50225669	415
50225677	415
50244760	414
50244779	415
50253417	414
50253425	414
50253441	414
50253492	415
50253506	415
50253514	415
50253603	415
50253611	415
50253727	415
50253832	415
50254030	415
50254278	415
50254286	415
50265342	432
50273868	546
50273884	546
50292099SET	452
50294512	420
50294520	420
50305581	547
50305603	547
50305620	547
50305646	547
50305662	547
50305689	547
50305700	547
50305727	547
50305743	547
50305760	547
50305786	547
50305808	547
50305824	547
50305840	547
50305867	547
50305883	547
50305905	547
50305921	547
50305948	547
50305964	547
50306588	548
50306600	548
50306626	548
50306642	548
50306669	548
50306685	548
50307584	548
50308599	537
50310100	547
50310127	547
50310143	547
50310240	548
50310267	548
50310283	548
50310305	548
50310321	548
50313533	482
50314823	548
50314831	548
50314840	548
50319620	416
50319639	416
50319647	416
50319655	416
50319663	416
50319892	416
50319906	416
50319914	416
50319930	416
50319957	416

Part No.	Page
50319965	416
50319981	416
50323989SET	446
50328034SET	446
50339672	420
50341367	545
50341375	545
50341383	545
50342916	433
50342991	433
50343629	545
50344200	426
50344293	426
50344366	426
50344374	426
50344447	426
50351770	416
50351788	416
50351796	416
50351800	416
50351818	416
50351826	416
50351923	414
50356119SET	443
50356143SET	444
50356151SET	443
50356160SET	444
50356178SET	445
50357468	541
50360183	458
50361716	416
50365061	414
50365088	416
50366904	439
50366912	440
50366920	438
50366939	439
50369105	414
50371541	454
50371550	454
50371568	454
50371576	454
50377299	490
50383167	490
50385224	454
504R	66
504RLD	66
505R	66
505RLD	66
50600010	422
50600168	422
50600192	422
50600257	421
50600311	421
50600346	421
50600370	421
50600400	421
50600435	421
50600478	421
50600508	421
50600532	421

Part No.	Page
50600567	421
50600591	421
50600621	421
50600656	421
50600680	421
50600710	421
50600745	421
50600770	424
50600982	424
50601016	425
50601148	420
50601156	428
50601172	428
50601660	428
50601679	420
50601687	422
50601717	422
50601741	422
50601776	422
50602349	422
50602381	423
50602420	423
50602462	416
50610045	422
50610076	422
50610106	422
50610137	422
50610281	421
50610809	424
50610830	424
50610861	424
50610892	424
50610922	424
50610953	424
50611257	423
506R	66
506RLD	66
50766797	442
50766803	442
50766919	472
507R	66
507RLD	66
508R	66
508RLD	66
509R	66
509RLD	66
50B	29
50B10	28
50B12	28
50B8	28
50R10	18
50R1045	20
50R12	18
50R1245	20
50R14	18
50R1445	20
50R16	18
50R1645	20
50R20	18
50R8	18
50R845	20

Part No.	Page
510R	66
510RLD	66
511R	66
511RLD	66
512R	66
512RLD	66
51300430	420
513R	66
513RLD	66
514R	66
514RLD	66
51R10	18
51R1045	20
51R12	18
51R1245	20
51R14	18
51R1445	20
51R16	18
51R1645	20
51R20	18
51R2045	20
52020113	428
52033816	427
52033817	427
52033818	427
52033819	427
52033820	427
52033831	427
52033832	427
52033843	434
52034233	445
52041709	540
52041741	540
52041743	540
52041745	540
52041746	540
52041747	540
52041748	541
52041749	541
52041750	540
52041751	540
52041752	541
52041753	541
52042827	420
52045296	421
52045297	421
52046100	428
52049371	459
52055260	536
52055261	536
52055262	536
52055265	544
52055267	543
52055268	543
52055270	536
52055271	536
52055272	536
52055273	536
52055274	536
52055275	536
52055276	536

Part No.	Page
52055277	536
52055278	536
52055279	536
52055280	536
52055281	536
52055283	537
52055285	537
52055292	536
52055293	536
52055294	536
52055295	536
52055296	536
52055298	539
52055299	539
52055300	539
52055313	542
52055315	542
52055316	542
52055320	544
52055321	544
52055323	544
52055325	542
52055326	542
52055327	542
52055328	542
52055337	542
52055338	542
52055339	542
52055340	542
52055341	542
52055347	542
52055348	542
52055349	542
52055350	542
52055351	542
52055352	542
52055359	542
52055360	542
52055361	542
52055362	542
52055378	549
52055379	549
52055380	549
52055381	549
52055382	549
52055383	544
52055384	544
52055385	537
52055386	537
52055389	538
52055390	538
52055391	538
52055392	538
52055401	545
52055402	545
52055403	545
52055431	418
52055432	418
52055433	418
52055434	418
52055435	418

Part No.	Page
52055436	418
52055437	418
52055438	418
52055439	418
52055439SET	440
52055440	418
52055440SET	441
52055684	391
52057722	450
52057723	450
52057724	450
52057725	450
52057726	450
52057727	450
52057728	450
52057729	450
52057730	450
52057731	450
52057732	450
52057733	450
52057734	450
52057735	450
52057736	450
52057737	450
52057738	450
52057739	450
52057740	450
52057741	450
52057742	450
52057743	450
52057744	450
52057745	450
52057746	450
52057747	450
52057748	450
52057749	450
52057750	450
52057751	450
52057752	450
52057753	450
52057754	451
52057755	451
52057756	451
52057757	451
52057758	451
52057760	451
52057761	451
52057762	451
52057763	451
52057764	451
52057765	451
52057766	451
52057767	451
52057768	451
52057769	451
52057770	451
52057771	451
52057773	451
52057774	451
52057775	451
52057776	451

Part No.	Page
52057777	451
52057778	451
52057779	451
52057780	454
52057781	454
52057782	454
52057801	451
52057802	451
52057803	451
52057804	451
52057805	451
52058592	427
52059292SET	452
52059293SET	452
52059294SET	452
52059295SET	452
52074656	538
52074657	538
52074658	544
52084123	458
52084124	458
52084125	458
52084126	458
52084128	458
52084129	458
52084131	458
52084132	458
52084133	458
52084134	458
52084920	437
52084941	437
52085453	458
52085633	416
52085671	416
52085672	415
52085675	415
52085678	415
52085681	415
52085684	415
52085686	419
52085688	419
52085689	420
52085690	420
52085691	420
52085692	420
52085693	420
52085694	419
52086846	461
52086978	432
52093902	420
523R	65
524R	65
525R	65
526R	65
527R	65
528R	65
529R	65
52R10	18
52R1045	20
52R12	18
52R1245	20

Part No.	Page
52R14	18
52R16	18
52R1645	20
52R20	18
52R2045	20
530R	65
531R	65
532R	65
533R	65
534R	65
535R	65
53R12	18
53R1245	20
53R14	18
53R1445	20
53R16	18
53R1645	20
53R20	18
54R12	18
54R1245	20
54R14	18
54R1445	20
54R16	18
54R1645	20
54R20	18
551R	119
552R	119
553R	119
554R	119
555R	119
556R	119
557R	119
558R	119
559R	119
56C4	51
56C5	51
56N3	50
56N4	50
56N5	50
572R6	118
573R6	118
573R8	118
574R8	118
575R8	118
57C4	51
57C5	51
57C6	51
57N3	50
57N4	50
57N5	50
57N6	50
584R10	118
584R8	118
585R10	118
585R12	118
585R8	118
586R10	118
586R12	118
587R10	118
587R12	118
588R10	118

Part No.	Page
588R12	118
589R10	118
589R12	118
589R16	118
58C4	51
58C5	51
58C6	51
58N4	50
58N5	50
58N6	50
58N8	50
590R10	118
590R12	118
590R16	118
592R12	118
592R16	118
59C5	51
59C6	51
59N5	50
59N6	50
5R10	14
5R12	14
5R14	14
5R16	14
5R6	14
5R8	14
5SG6	16
602R10	25
602R12	25
602R5	25
602R6	25
602R8	25
603R10	25
603R12	25
603R5	25
603R6	25
603R8	25
604R10	25
604R12	25
604R14	25
604R5	25
604R6	25
604R8	25
605R10	25
605R12	25
605R14	25
605R16	25
605R6	25
605R8	25
606R10	26
606R12	26
606R14	26
606R16	26
606R20	26
606R8	26
607R10	26
607R12	26
607R16	26
607R6	26
607R8	26
608R10	26

Part No.	Page
608R12	26
608R8	26
609R10	26
609R12	26
60C5	51
60C6	51
60C8	51
60N10	50
60N5	50
60N6	50
60N8	50
6192	154
61925	154
6193	154
61935	154
6194	154
6195	154
619C3	155
61N10	50
61N6	50
61N8	50
62010	154
62025	154
6203	154
62035	154
6204	154
6205	154
6206	154
6208	154
620C3	155
620C35	155
620C4	155
620C5	155
620C6	155
622R	27
623R	27
624R	27
625R	27
626R	27
627R	27
628R	27
62N10	50
62N6	50
62N8	50
62R	52
63010	154
6303	154
63035	154
6304	154
6305	154
6306	154
6308	154
630C3	155
630C35	155
630C4	155
630C5	155
630C6	155
63N10	50
63N8	50
63R	52
64N10	50

Part No.	Page
64N12	50
64R	52
65010	154
6504	154
6505	154
6506	154
6508	154
650C10	155
650C4	155
650C5	155
650C6	155
650C8	155
65210	76
65212	76
6526	76
6528	76
652C5	80
652C6	80
65310	76
65312	76
6535	76
6536	76
6538	76
653C6	80
65410	76
65412	76
65416	76
6545	76
6546	76
6548	76
65510	76
65512	76
65516	76
6556	76
6558	76
65610	76
65612	76
65616	76
6566	76
6568	76
65710	77
65712	77
65716	77
6576	77
6578	77
65810	77
65812	77
65816	77
65910	77
65912	77
65916	77
65N10	50
65N12	50
65R	52
66010	77
66012	77
66016	77
669	163
66R	52
670	163
670WS	163

Part No.	Page
680	163
680WS	163
695V	136
697V	136
6B	29
6B10	28
6B5	28
6B6	28
6B8	28
6R10	15
6R12	15
6R14	15
6R16	15
6R20	15
6R6	15
6R8	15
6SG10	16
6SG6	16
6SG8	16
700	163
700WS	163
702F10	33
702F12	33
702F5	33
702F6	33
702F8	33
703F10	33
703F12	33
703F5	33
703F6	33
703F8	33
704	156
704F10	33
704F12	33
704F5	33
704F6	33
704F8	33
705	156
705F10	33
705F12	33
705F14	33
705F6	33
705F8	33
705K	156
705V	136
706F10	33
706F12	33
706F14	33
706F16	33
706F6	33
706F8	33
707F10	34
707F12	34
707F14	34
707F16	34
707F8	34
707V	136
708F10	34
708F12	34
708F14	34
708F16	34

Part No.	Page
708F8	34
709F10	34
709F12	34
709F14	34
709F16	34
709F20	34
70B	29
70B10	28
70B12	28
70B16	28
70B8	28
710	156
710F10	34
710F12	34
710F14	34
710F16	34
710F20	34
710K	156
710L	156
7110V	136
7112V	136
7115V	136
711F10	34
711F12	34
711F14	34
711F16	34
711F20	34
712F10	34
712F12	34
712F14	34
712F16	34
712F20	34
713F12	34
713F14	34
713F16	34
713F20	34
715	156
716V	136
718V	136
71S10V	136
71S6V	136
71S8V	136
720	159
7208	159
720AZ	160
720BZ	160
720V	161
7210V	136
7212V	136
7215V	136
7218V	136
7220V	136
722F	37
723F	37
724F	37
725	170
725F	37
726F	37
726V	136
727F	37
727V	136

Part No.	Page
728F	37
728V	136
729F	37
72S10V	136
72S12V	136
72S15V	136
72S6V	136
72S8V	136
730	159
7308	159
730AZ	160
730BZ	160
730F	37
730V	161
7310V	136
7312V	136
7315V	136
7318V	136
731F	37
7320V	136
735	170
737V	136
738V	136
7410V	137
7412V	137
7415V	137
7418V	137
7420V	137
742F10	35
742F12	35
742F5	35
742F6	35
742F8	35
743F10	35
743F12	35
743F5	35
743F6	35
743F8	35
744F10	35
744F12	35
744F5	35
744F6	35
744F8	35
745F10	35
745F12	35
745F6	35
745F8	35
746F10	35
746F12	35
746F14	35
746F6	35
746F8	35
747F10	36
747F12	36
747F14	36
747F16	36
747F8	36
748F10	36
748F12	36
748F14	36
748F16	36
748F8	36
748V	137
749F10	36
749F12	36
749F14	36
749F16	36
749V	137
750	159
7509	159
750AZ	160
750BZ	160
750F10	36
750F12	36
750F14	36
750F16	36
750F20	36
750V	161
7510V	137
7512V	137
7515V	137
7518V	137
751F12	36
751F14	36
751F16	36
751F20	36
7520V	137
7525V	137
752F16	36
755	170
7610V	137
7612V	137
7615V	137
7618V	137
7620V	137
7625V	137
769	164
770	164
7712V	137
7715V	137
7718V	137
7720V	137
7725V	137
7732V	137
775	170
780	164
7812V	137
7815V	137
7818V	137
7820V	137
7825V	137
7828V	137
7832V	137
790	164
7912V	137
7915V	137
7918V	137
7920V	137
7922V	137
7925V	137
7930V	137
7932V	137
79R	49
79V4	48
79V5	48
7R10	15
7R12	15
7R14	15
7R16	15
7R20	15
7R6	15
7R8	15
7SG10	16
7SG12	16
7SG6	16
7SG8	16
8001	170
80012	170
8002	170
8011	171
80112	171
8012	171
8018V	137
8022V	137
8025V	137
8030V	137
8032V	137
8051	170
80512	170
8052	170
80R	49
80V4	48
80V5	48
80V6	48
8101	170
81012	170
8102	170
8122V	138
8125V	138
8130V	138
8132V	138
8151	171
81512	171
816	172
817	172
81R	49
81V4	48
81V5	48
81V6	48
820	162
8201	159
8201A	159
8201AV	161
8201B	162
8201C	162
8201V	161
8202	159
8202B	162
8202V	161
8203	159
8203B	162
8203V	161
8225V	138
8230V	138
8232V	138
8234V	138
82R	49
82V5	48
82V6	48
82V8	48
830	162
8301	159
8301A	159
8301AV	161
8301V	161
8302	159
8302B	162
8302V	161
8303	159
8303B	162
8303V	161
8330V	138
8332V	138
8334V	138
8338V	138
8340V	138
83R	49
83V5	48
83V6	48
83V8	48
8432V	138
8434V	138
8438V	138
8440V	138
84R	49
84V6	48
84V8	48
850	162
8502B	162
8502V	161
8503	159
8503B	162
8503V	161
8532V	138
8540V	138
85R	49
85V6	48
85V8	48
8634V	138
8640V	138
8678	145
8688	145
8698	145
86R	49
86V10	48
86V12	48
86V6	48
86V8	48
87010	145
8708	145
87110	145
8718	145
87212	145
8728	145

Part No.	Page
87310	145
87313	145
87412	145
87514	145
87614	145
87714	145
87R	49
87V10	48
87V12	48
87V16	48
87V8	48
88R	49
88V10	48
88V12	48
88V8	48
8R10	15
8R12	15
8R14	15
8R16	15
8R20	15
8R8	15
8SG10	16
8SG12	16
8SG6	16
8SG8	16
90508068	489
90510593	489
91C3	13
91C4	13
91C5	13
91R3	12
91R4	12
91R5	12
920	157
920V	158
92C3	13
92C4	13
92C5	13
92C6	13
92R3	12
92R4	12
92R5	12
92R6	12
930	157
93C4	13
93C5	13
93C6	13
93R3	12
93R4	12
93R5	12
93R6	12
93R8	12
94C4	13
94C5	13
94C6	13
94C8	13
94R4	12
94R5	12
94R6	12
94R8	12
950	157
950V	158
95B	29
95B10	28
95B12	28
95B16	28
95C4	13
95C5	13
95C6	13
95C8	13
95R4	12
95R5	12
95R6	12
95R8	12
96C5	13
96C6	13
96C8	13
97C5	13
97C6	13
97C8	13
9R10	15
9R12	15
9R14	15
9R16	15
9R20	15
9R8	15
9SG10	16
9SG12	16
9SG6	16
9SG8	16
A10	325
A150	325
A1625	325
A185	325
A2210	330
A22150	330
A221625	330
A22185	330
A22240	330
A22300	330
A2235	330
A2250	330
A2270	330
A2295120	330
A22SET	330
A300	144
A35	325
A50	325
A70	325
A95120	325
AD22120	330
AD22150185	330
AD2225	330
AD2235	330
AD2250	330
AD2270	330
AD2295	330
AD25	325
AD35	325
AD50	325
AD70	325
AD95	325
AE501	312
AE502	312
AE503	312
AES10S	326
AES16S	326
AES2210S	332
AES22120S	332
AES22150S	332
AES2216S	332
AES22185S	332
AES22240S	332
AES2225S	332
AES2235S	332
AES2250S	332
AES2270S	332
AES2295S	332
AES25S	326
AES35S	326
AES50S	326
AES70S	326
AES95S	326
AH120120	122
AH7070	122
AH9595	122
AHP700L	481
AS105FHP	389
AS120FHP	389
ASSG105L	408
ASSG105L	408
ASSG120SL	408
ASSG120SL	408
ASSGG105L	408
ASSGG105L	408
ASSGG85L	408
ASSGG85L	408
AST22120	331
AST2225	331
AST2235	331
AST2250	331
AST2270	331
AST2295	331
B2210	328
B22120	328
B22150	328
B2216	328
B22185	328
B22240	328
B2225	328
B22300	328
B2235	328
B2250	328
B226	328
B2270	328
B2295	328
B22SET	328
BAG9698	147
BAG9708	147
BAG9718	147
BAG9728	147
BAG9738	147
BAK9698	146
BAK9708	146
BAK9718	146
BAK9728	146
BAK9738	146
BNC501	313
C16	325
C2216	331
C2225	331
C2235	331
C2250	331
C2270	331
C25	325
C35	325
C50	325
CK16	121
CK25	121
CK35	121
CK50	121
CK70	121
CK95	121
CR501	313
CR502	313
CR504	313
CR505	313
CS1022	114
CS1228	114
CS1428	114
CS1635	114
CS615	114
CS818	114
D10	324
D120	324
D150	324
D16	324
D185	324
D2210	329
D22120	329
D22150	329
D2216	329
D22185	329
D22240	329
D2225	329
D22300	329
D2235	329
D2250	329
D226	329
D2270	329
D2295	329
D22SET	329
D25	324
D35	324
D50	324
D504	312
D505	312
D6	324
D70	324
D95	324
DNAW3	530
DNK742	234
DNP2	491
DP2250	329

Part No.	Page
DP2270	329
EBS12CFB	362
EBS12CFM	362
EBS12ML	355
EBS6LGKS	360
EBS8CFB	361
EBS8CFM	361
EBS8ML	355
EHP2380	478
EHP3	479
EHP4115	480
EHP4230	480
EK12032CFB	270
EK12032CFM	270
EK12042CFB	272
EK12042CFM	272
EK120IDCFB	269
EK120IDCFM	269
EK120UCFB	274
EK120UCFM	274
EK120UNVCFB	469
EK120UNVCFM	469
EK135FTCFB	276
EK135FTCFM	276
EK1550ML	248
EK30IDML	247
EK354CFB	256
EK354CFM	256
EK354ML	250
EK5018CFB	260
EK5018CFM	260
EK505CFB	258
EK505CFM	258
EK50ML	244
EK6022CFB	264
EK6022CFM	264
EK60UNVCFB	468
EK60UNVCFM	468
EK60VPCFB	266
EK60VPCFM	266
EK60VPFTCFB	267
EK60VPFTCFM	267
EKM6022CFB	262
EKM6022CFM	262
EKM6022ISB	398
EKM6022ISB	398
EKM6022ISM	398
EKM6022ISM	398
EKM60IDCFB	268
EKM60IDCFM	268
EKM60IDISB	400
EKM60IDISB	400
EKM60IDISM	400
EKM60IDISM	400
EKM60UNVCFB	467
EKM60UNVCFM	467
ES105CFB	379
ES105CFM	379
ES20CFB	363
ES20CFM	363
ES20E	356
ES20ISB	404
ES20ISB	404
ES20ISM	404
ES20ISM	404
ES20ML	356
ES20RMCCFB	364
ES20RMCCFM	364
ES32CFB	368
ES32CFM	368
ES32FCFB	369
ES32FCFM	369
ES32FML	357
ES32ISB	405
ES32ISB	405
ES32ISM	405
ES32ISM	405
ES32ML	357
ES32RMCCFB	364
ES32RMCCFM	364
ES65CFB	375
ES65CFM	375
ES85CFB	377
ES85CFM	377
ESG105CFB	378
ESG105CFM	378
ESG105RMCCFM	365
ESG25CFB	366
ESG25CFM	366
ESG45CFB	372
ESG45CFM	372
ESG55CFB	374
ESG55CFM	374
ESG65RMCCFM	365
ESG85CFB	376
ESG85CFM	376
ESGM45CFB	371
ESGM45CFM	371
ESM25CFB	367
ESM25CFM	367
ESM25ISB	403
ESM25ISM	403
ESM25ISM	403
ESM25ISMB	403
ESM35CFB	370
ESM35CFM	370
ESM35ISB	402
ESM35ISB	402
ESM35ISM	402
ESM35ISM	402
ESM50CFB	373
ESM50CFM	373
ESM50ISB	401
ESM50ISB	401
ESM50ISM	401
ESM50ISM	401
ESSG105L	407
ESSG105L	407
ESSGG85L	407
ESSGG85L	407
F10	323
F16	323
F2210	328
F2216	328
F2225	328
F2235	328
F2250	328
F2270	328
F25	323
F35	323
F50	323
FHP2	477
FTA1	488
FTA4	488
GR1698	142
GR169O	140
GR1708	142
GR170W	141
GR1718	142
GR171G	141
GR1728	142
GR172RO	141
GR1738	142
GR173B	141
GR4698	139
GR4698DO	182
GR4708	139
GR4708DO	182
GR4718	139
GR4718DO	182
GR4728	139
GR4728DO	183
GR4738	139
GR4738DO	183
H2270	331
HA1310	336
HA13150	336
HA131625	336
HA13185	336
HA13240	336
HA13300	336
HA1335	336
HA1350	336
HA1370	336
HA1395120	336
HA15400	338
HA15500	338
HA25400	340
HA25500	340
HA410	317
HA41625	317
HA435	317
HA450	317
HA45150	342
HA45185	342
HA45240	342
HA45300	342
HA45400	342
HA45500	342
HA470	317
HA510	321
HA5150	321
HA51625	321
HA535	321
HA550	321
HA570	321
HA595120	321
HAD13120	336
HAD13150185	336
HAD1325	336
HAD1335	336
HAD1350	336
HAD1370	336
HAD1395	336
HAD25240	340
HAD25300	340
HAD45150185	342
HAD45240	342
HAD45300	342
HAD525	321
HAD535	321
HAD550	321
HAD570	321
HAD595	321
HAES13120S	337
HAES13150S	337
HAES13185S	337
HAES13240S	337
HAES1325S	337
HAES1335S	337
HAES1350S	337
HAES1370S	337
HAES1395S	337
HAES410S	317
HAES416S	317
HAES425S	317
HAES435S	317
HAES450S	317
HAES510S	322
HAES516S	322
HAES525S	322
HAES535S	322
HAES550S	322
HAES570S	322
HAES595S	322
HAH13120	337
HAH1370	337
HAH1395	337
HAH25120	341
HAH2595	341
HAST13120	336
HAST1325	336
HAST1335	336
HAST1350	336
HAST1370	336
HAST1395	336
HB410	314
HB4120	314
HB4150	314
HB416	314
HB425	314
HB435	314
HB450	314
HB46	314

Part No.	Page
HB470	314
HB495	314
HB4SET	315
HB51050	319
HB5120	319
HB5150	319
HB51670	319
HB5185	319
HB52595	319
HB5635	319
HB5SET	320
HC1316	337
HC1325	337
HC1335	337
HC1350	337
HC1370	337
HC2516	341
HC2525	341
HC2550	341
HC2595	341
HC416	317
HC425	317
HC516	321
HC525	321
HC535	321
HD1001000	343
HD100625	343
HD100800	343
HD1310	334
HD13120	334
HD13150	334
HD1316	334
HD13185	334
HD13240	334
HD1325	334
HD13300	334
HD1335	334
HD1350	334
HD1370	334
HD1395	334
HD15400	338
HD15500	338
HD15625	338
HD25150	339
HD25185	339
HD25240	339
HD25300	339
HD25400	339
HD25500	339
HD25625	339
HD410	316
HD4120	316
HD416	316
HD425	316
HD435	316
HD450	316
HD451000	342
HD45120	342
HD45150	342
HD45185	342
HD45240	342

Part No.	Page
HD45300	342
HD45400	342
HD45500	342
HD45625	342
HD45800	342
HD46	316
HD470	316
HD495	316
HD4SET	316
HD51050	320
HD5120	320
HD5150	320
HD51670	320
HD5185	320
HD52595	320
HD5635	320
HD5SET	320
HDP13120	334
HDP1350	334
HDP1370	334
HDP1395	334
HF1310	334
HF13120	334
HF13150	334
HF1316	334
HF1325	334
HF1335	334
HF1350	334
HF1370	334
HF1395	334
HF25185	339
HF25240	339
HF25300	339
HF410	315
HF416	315
HF425	315
HF435	315
HF510	320
HF516	320
HF525	320
HF535	320
HF550	320
HIS1310	333
HIS13120	333
HIS13150	333
HIS1316	333
HIS1325	333
HIS1335	333
HIS1350	333
HIS1370	333
HIS1395	333
HIS410	314
HIS416	314
HIS425	314
HIS435	314
HIS450	314
HIS470	314
HIS510	319
HIS516	319
HIS525	319
HIS535	319

Part No.	Page
HIS550	319
HIS570	319
HIS595	319
HISQ1310	335
HISQ1316	335
HISQ1325	335
HISQ1335	335
HISQ1350	335
HISQ1370	335
HISQ1395	335
HISQ25120	340
HISQ25150	340
HISQ410	316
HISQ416	316
HK12030	286
HK12042	288
HK120U	290
HK252	308
HK45	309
HK6018	280
HK6022	282
HK60UNV	465
HK60VP	284
HK60VPFT	285
HM4154	315
HM416	315
HM4610	315
HMC1310	337
HMC1335	337
HMC1350	337
HMC1370	337
HMC25120	341
HMC25150	341
HMC25185	341
HMC2535	341
HMC2550	341
HMC2570	341
HMC2595	341
HMC410	317
HMC435	317
HMC44	317
HN1310	334
HN1316	334
HN1325	334
HN1335	334
HN1350	334
HN1370	334
HN1395	334
HN4051	315
HN410	315
HN41525	315
HN416	315
HN446	315
HQ1310	335
HQ13120	335
HQ13150	335
HQ1316	335
HQ1325	335
HQ1335	335
HQ1350	335
HQ1370	335

Part No.	Page
HQ1395	335
HQ25150	340
HQ25185	340
HQ25240	340
HQ410	316
HQ416	316
HQ425	316
HQ435	316
HQ46	316
HQ510	320
HQ516	320
HQ525	320
HQ535	320
HQ550	320
HR13120	333
HR13150	333
HR1316	333
HR13185	333
HR13240	333
HR1325	333
HR13300	333
HR1335	333
HR13400	333
HR1350	333
HR1370	333
HR1395	333
HR25150	339
HR25185	339
HR25240	339
HR25300	339
HR25400	339
HR410	314
HR4120	314
HR4150	314
HR416	314
HR425	314
HR435	314
HR450	314
HR46	314
HR470	314
HR495	314
HR4SET	314
HR51050	319
HR5120	319
HR5150	319
HR51670	319
HR5185	319
HR5240	319
HR52595	319
HR5635	319
HR5SET	319
HRU1310	335
HRU1312095	335
HRU13150120	335
HRU1316	335
HRU13185150	335
HRU13240185	335
HRU13300240	335
HRU13300SM	335
HRU133525	335
HRU135035	335

Part No.	Page
HRU137050	335
HRU139570	335
HRU2510	340
HRU2512095	340
HRU25150120	340
HRU2516	340
HRU25185150	340
HRU25240185	340
HRU25300240	340
HRU25300SM	340
HRU253525	340
HRU255035	340
HRU257050	340
HRU259570	340
HRU410	317
HRU412095	317
HRU4150120	317
HRU416	317
HRU43525	317
HRU45035	317
HRU47050	317
HRU49570	317
HRU510	321
HRU512095	321
HRU5150120	321
HRU516	321
HRU5185150	321
HRU5240185	321
HRU5300240	321
HRU53525	321
HRU55035	321
HRU57050	321
HRU59570	321
HS210	489
HS22	489
HS23	489
HS24	489
HS25	489
HS26	489
HS28	489
HSD1	406
HSD1	407
HSD2	406
HSD2	407
HSG45	381
HSG55	382
HSG852	382
HSOEL10	489
HSOEL2	489
HSOEL3	489
HSOEL4	489
HSOEL5	489
HSOEL6	489
HST131215	336
HST1320	336
HST1346	336
HST138	336
HTA4	491
HZAE410	318
HZAE416	318
HZAE44	318
HZAE46	318
HZAE510	322
HZAE516	322
HZAE54	322
HZAE56	322
HZAES410	318
HZAES416	318
HZAES44	318
HZAES46	318
IS10	323
IS16	323
IS2210	327
IS22120	327
IS22150	327
IS2216	327
IS2225	327
IS2235	327
IS2250	327
IS2270	327
IS2295	327
IS25	323
IS35	323
IS50	323
IS501	313
IS503	313
IS504	313
IS505	313
IS5072	313
IS70	323
IS95	323
ISQ10	324
ISQ16	324
ISQ2210	329
ISQ2216	329
ISQ2225	329
ISQ2235	329
ISQ2250	329
ISQ2270	329
ISQ25	324
ISQ35	324
ISQ50	324
K02	224
K04	228
K05	229
K05BC	229
K05D	230
K05DSP	230
K05SP	229
K06	231
K06BC	230
K06D	231
K07	227
K07SP	227
K09	232
K09BC	232
K09D	233
K1	210
K100	348
K1011	351
K1012	353
K102	348
K1031	349
K1041	350
K1051	352
K1061	349
K1062	349
K118	348
K130	350
K150	351
K16	220
K18	238
K2	224
K2011	352
K22	240
K230	350
K25	225
K250	351
K271	216
K272	217
K28	217
K29	218
K3	209
K3014K	215
K3016K	216
K303	214
K304K	214
K306K	215
K32	211
K34	212
K35	209
K354	236
K36	211
K37	212
K382	213
K39	213
K4	208
K400	528
K432	525
K43290	525
K432U	525
K432V	525
K433	526
K46	208
K48	210
K5	226
K50	235
K507	234
K511	233
K512	233
K572	221
K582	221
K592	222
K5SP	226
K6	226
K65	222
K6SP	226
K7	227
K7SP	227
K8	228
K80	218
K82A	219
K82T	220
K8SP	228
K93	223
K94	223
K95	225
KF125	122
KKPE	193
KKPE13	193
KKPEH25	193
KL010160IS	496
KL010210IS	496
KL020165IS	496
KL020180IS	496
KL020205IS	496
KL026205IS	496
KL040115EL	509
KL040115ELW	509
KL040128EL	509
KL040128ELH	509
KL040145IS	497
KL040160IS	497
KL040180IS	497
KL042190IS	497
KL044200IS	497
KL045180IS	497
KL045240IS	497
KL046200IS	498
KL050115EL	509
KL050205IS	498
KL055205IS	498
KL060160IS	499
KL070250G	508
KL070250IS	499
KL072180G	508
KL072250G	508
KL072300G	508
KL078250G	508
KL10010030IS	500
KL10010035IS	500
KL10010035ISLIM	500
KL10010040IS	500
KL10010040ISLIM	500
KL10012555IS	500
KL10012555ISLIM	500
KL10012565ISLIM	500
KL10015065IS	500
KL10017580IS	500
KL1007525IS	500
KL110PH1IS	500
KL110PH1ISLIM	500
KL110PH2IS	500
KL110PH2ISLIM	500
KL110PH3IS	500
KL120PZ1IS	501
KL120PZ1ISLIM	501
KL120PZ2IS	501
KL120PZ2ISLIM	501
KL120PZ3IS	501
KL130PM1IS	501
KL130PM1ISLIM	501
KL130PM2IS	501
KL130PM2ISLIM	501

Part No.	Page
KL145100IS	502
KL145130IS	502
KL14555IS	502
KL14560IS	502
KL14570IS	502
KL14580IS	502
KL150TX10IS	502
KL150TX15IS	502
KL150TX15ISLIM	502
KL150TX20IS	502
KL150TX20ISLIM	502
KL150TX25IS	502
KL150TX25ISLIM	502
KL150TX30IS	502
KL180B8	509
KL180B8DISPLAY	509
KL19073IS	502
KL2007335	510
KL2007340	510
KL2007355	510
KL2007365	510
KL21073PH1	510
KL21073PH2	510
KL22073PZ1	510
KL22073PZ2	510
KL23073PM1	511
KL23073PM2	511
KL25073TX10	511
KL25073TX15	511
KL25073TX20	511
KL25073TX25	511
KL25073TX27	511
KL25073TX30	511
KL25073TX40	511
KL290	511
KL291	511
KL295	512
KL296	512
KL303IS	503
KL304IS	503
KL306IS	503
KL330	515
KL331	515
KL335	515
KL340	515
KL361	512
KL365	515
KL370	513
KL375	513
KL38715	513
KL38830	514
KL38954	514
KL390IS	504
KL390ISLIM	504
KL390TB9	505
KL390TL	505
KL391IS	503
KL391ISLIM	505
KL392IS	504
KL393IS	504
KL402	516

Part No.	Page
KL403	516
KL420200	515
KL425400	516
KL425600	516
KL440F	516
KL449	516
KL500	517
KL510	517
KL540	518
KL542	519
KL542ES	519
KL544	519
KL544ES	519
KL545	519
KL550	519
KL550ES	518
KL550ES	519
KL559	518
KL580300	517
KL580500	517
KL5821000	517
KL5821250	517
KL584230	518
KL585200	518
KL585250	518
KL586	518
KL710	529
KL720	530
KL730	529
KL735PV	530
KL740416	528
KL740828	528
KL745GK	528
KL745HK	529
KL760180	526
KL760180IS	499
KL765FR215	527
KL765PV	527
KL855B22	520
KL855L	523
KL865L	523
KL905B15	521
KL905L	523
KL910L	523
KL920B22	522
KL920L	523
KMF1	491
KSK1504	129
KSK504	129
KST2	490
KV10	24
KV120	24
KV16	24
KV2.5	24
KV35	24
KV4	24
KV50	24
KV6	24
KV70	24
KV95	24
LBOXX230B	201

Part No.	Page
LBOXX3R8SET	199
LBOXX50B	199
LBOXX65B	198
LBOXX65BCB	200
LBOXX6R10SET	199
LBOXXEK354CFB	203
LBOXXEK354CFM	203
LBOXXEK5018CFB	203
LBOXXEK5018CFM	203
LBOXXEK505CFB	203
LBOXXEK505CFM	203
LBOXXEK50ML	198
LBOXXEKM6022CFB	203
LBOXXEKM6022CFM	203
LBOXXEKM60IDCFB	203
LBOXXEKM60IDCFM	203
LBOXXEKM60UNVCFB	203
LBOXXEKM60UNVCFM	203
LBOXXES20CFB	203
LBOXXES20CFM	203
LBOXXES32CFB	203
LBOXXES32CFM	203
LBOXXES32FCFB	203
LBOXXES32FCFM	203
LBOXXLS50FLEXCFB	203
LBOXXLS50FLEXCFM	203
LBOXXMINIK3	201
LBOXXMINIK3014K	202
LBOXXMINIK304K	202
LBOXXMINIK306K	202
LGL1	486
LGL3	486
LGLB1EU	486
LGML1	487
LS100FLEXCFB	436
LS100FLEXCFM	436
LS50FLEXCFB	435
LS50FLEXCFM	435
M154	324
M16	324
M22154	328
M2216	328
M22610	328
M50154	312
M50610	312
M610	324
MC10	325
MC2210	331
MC2235	331
MC224	331
MC35	325
MC4	325
MCK1010	121
MCK1016	121
MCK1025	121
MCK120120	122
MCK150150	122
MCK185185	122
MCK2550	121
MCK3535	121
MCK3570	121

Part No.	Page
MCK3595	122
MCK5050	121
MCK7095	122
MK18	193
MK210L	192
MK22	193
MK220L	192
MK230B507	189
MK230L	192
MK55	192
MKU	194
N2210	328
N2216	328
N2225	328
N2235	328
N2250	328
NG2115	485
NG2230	485
PHD2	477
PK1000	307
PK12042	300
PK120U	302
PK18	294
PK22	296
PK252	304
PK45	306
PK60ID	299
PK60UNV	466
PK60VP	298
PK60VPFT	298
Q10	324
Q16	324
Q2210	329
Q2216	329
Q2225	329
Q2235	329
Q2250	329
Q2270	329
Q25	324
Q35	324
Q50	324
Q501	312
Q70	324
R10	323
R120	323
R150	323
R16	323
R185	323
R2210	327
R22120	327
R22150	327
R2216	327
R22185	327
R22240	327
R2225	327
R22300	327
R2235	327
R2250	327
R226	327
R2270	327
R2295	327

Part No.	Page
R22SET	327
R240	323
R25	323
R35	323
R50	323
R501	312
R502	312
R504	312
R505	312
R6	323
R70	323
R95	323
RAL1	483
RAL2	483
RAL3	483
RAL4	484
RAL40	484
RALB1EU	484
RALB2EU	485
RAML1	485
RH12050	68
RH12070	68
RH12095	68
RH150120	68
RH15070	68
RH15095	68
RH185120	68
RH185150	68
RH18595	68
RH240120	68
RH240150	68
RH240185	68
RH2510	68
RH2516	68
RH300150	68
RH300185	68
RH300240	68
RH3510	68
RH3516	68
RH3525	68
RH400240	68
RH400300	68
RH5016	68
RH5025	68
RH5035	68
RH7025	68
RH7035	68
RH7050	68
RH9535	68
RH9550	68
RH9570	68
RU10	325
RU12095	325
RU150120	325
RU16	325
RU185150	325
RU2210	330
RU2212095	330
RU22150120	330
RU2216	330
RU22185150	330

Part No.	Page
RU22240185	330
RU22300240	330
RU22300SM	330
RU223525	330
RU225035	330
RU227050	330
RU229570	330
RU240185	325
RU300240	325
RU3525	325
RU5035	325
RU7050	325
RU9570	325
S18	392
SAK1095	120
SAK16150	120
SAK670	120
SB501	313
SDG105	387
SDG45	384
SDG55	385
SDG852	386
SDK105	387
SDK120	388
SDK65	385
SDK85	386
SK303P	185
SK303S	186
SK30B	183
SK30L	191
SK32B	184
SK32L	191
SK43L	191
SK43NB	186
SK45B	184
SK47B	185
SK4L	191
SK4L	218
SK50B	188
SK65B	187
SK65L	193
SK82P	190
SK82S	190
SKR1204	130
SKR1501504	130
SKR1503	130
SKR1504	130
SKR150504	130
SKR1854	130
SKV1525	32
SKV16	32
SKV35	32
SKV4	32
SKV6	32
SR106	30
SR108	30
SR166	30
SR168	30
SR256	30
SR258	30
SR3510	30

Part No.	Page
SR358	30
SR5010	30
SR506	30
SR508	30
SR65	30
SR66	30
SSG105	406
SSG105	406
SSGG105	406
SSGG105	406
SSGG85	406
SSGG85	406
ST11B	179
ST12B	180
ST13B	181
ST15B	179
ST1705	79
ST1710	79
ST1715	79
ST1716	79
ST1716IS	77
ST1717	79
ST1717IS	77
ST1718	79
ST1718IS	77
ST1719	79
ST1719IS	77
ST1720	79
ST1720IS	77
ST1721	79
ST1721IS	77
ST1722	79
ST1722IS	77
ST1B	179
ST21B	178
ST221215	331
ST2220	331
ST2246	331
ST228	331
ST22B	178
ST23B	178
ST2B	180
ST31B	180
ST32B	181
ST33B	182
ST3B	181
ST5L	183
ST9698	146
ST9708	146
ST9718	146
ST9728	146
ST9738	146
STV10	31
STV1525	31
STV16	31
STV25	31
STV35	31
STV4	31
STV50	31
STV6	31
SV10	31

Part No.	Page
SV100	123
SV1525	31
SV16	31
SV200	123
SV200BK	123
SV25	31
SV300	124
SV300V	124
SV301	124
SV301AK	124
SV301AKV	124
SV301V	124
SV302	124
SV302AK	124
SV302AKV	124
SV302V	124
SV303	124
SV303AK	124
SV303AKNL	124
SV303V	124
SV304AKNL	124
SV304AKNLV	124
SV305	126
SV305AK	126
SV305AKV	126
SV305V	126
SV306	126
SV306AK	126
SV306AKV	126
SV306V	126
SV307AKNL	124
SV307V	124
SV308	124
SV309	125
SV309AK	125
SV309AKV	125
SV309V	125
SV310	125
SV310AK	125
SV310AKV	125
SV310V	125
SV311AKNL	125
SV312AKNL	125
SV312AKNLV	125
SV315	125
SV315V	125
SV319AKNLV	125
SV320	125
SV320V	125
SV35	31
SV4	31
SV400	127
SV405V	127
SV410	127
SV410AK	127
SV420V	127
SV430	128
SV430AK	128
SV440AK	128
SV50	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

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 cimping

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 Paolo, 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
WEXOE 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

Guatelmala
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
Ilans@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

Lativa
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
Architl@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

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

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

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

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

RIDGID GREENLEE Klauke

Get the latest information on products, services and promotions by signing up to our newsletter:

KLAUKE.COM/NEWSLETTER

Follow us!

ant Profitools Kft.
Professzionális gépek és szerszámok

Hivatalos forgalmazó Magyarországon

Gát utca, 1095 Budapest
06 70 417 6555
info@antprofitools.hu
www.antprofitools.hu
www.klauketools.hu

© 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. KATHAUPT21GB 3.000 06/21 I

Klauke

Gustav Klauke GmbH
Auf dem Knapp 46
D-42855 Remscheid

Tel.: +49 (0) 2191 / 907 - 0
Klauke-Info@Emerson.com
Klauke.com

EMERSON