



KLAUKE CATALOGUE 2024

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



WORLDWIDE DISTRIBUTION AND SERVICE NETWORK



**Your contact to Klauke:
Representatives worldwide**

see from page i-34

MORE THAN 145 YEARS OF EXPERIENCE



**MADE IN GERMANY
SINCE 1879**



OUR COMPANY CERTIFICATES



ISO 9001:2015
Quality management system

ISO 14001:2015
Environmental management system

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 FOUR SECTORS, ONE QUALITY

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

TRUSTED SOLUTIONS FOR SOLAR PARK INSTALLATIONS



In a solar park you will find Klauke products every time when you connect a combiner box, an inverter or a transformer.

Solar power systems are an essential green energy source for the present and future generations. But if we talk about the optimal efficiency of the solar panels, a factor that is often underestimated is the quality and reliability of the electrical connection elements.

TRUSTED SOLUTIONS FOR WIND TURBINE INSTALLATIONS



We offer exactly the right Klauke tools and associated Klauke connection material for the various electrical components in a wind turbine.

Wind turbines play a key role in generating green electricity. High safety requirements apply to the installation. It is therefore essential to comply with the relevant quality criteria for both the electrical connections and the installation tooling.

TOOLS FOR ENERGY SUPPLY



Klauke offers you - energy generators, network operators and service providers in the energy sector - an expanded product range. Alongside Klauke brand products, Greenlee brand test and measurement equipment is also offered.

The measurement and safety products are developed and produced by Greenlee itself in the USA and reflect state-of-the-art technology. All inspection, test and measuring devices conform to national and international directives and standards, thereby guaranteeing maximum safety for the user.

CONTROL CABINET CONSTRUCTION – CUTTING, STRIPPING, CRIMPING, PUNCHING – IT'S ALL IN THERE



Efficiency and safety in panel-building are now available in an all-round no-hassle package. Whether it's cutting, stripping, crimping or punching: in our power package you'll find precisely the right tool! EK30IDML and EKWF120ML: fast and safe crimping without changing inserts

In panel-building, different conductors, cable lugs and wire end sleeves are usually used at the same time. This means that during crimping the required pressing inserts must be changed frequently. This takes time and effort. With the EK30IDML and the EKWF120ML, we now offer you ideal solutions.

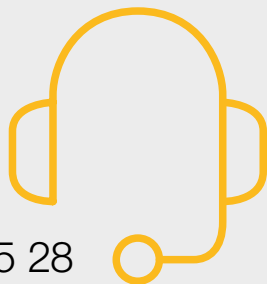
KLAUKE AFTER SALES SERVICE - PERFECTLY TAILORED FOR YOUR DAY-TO-DAY WORK

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

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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.



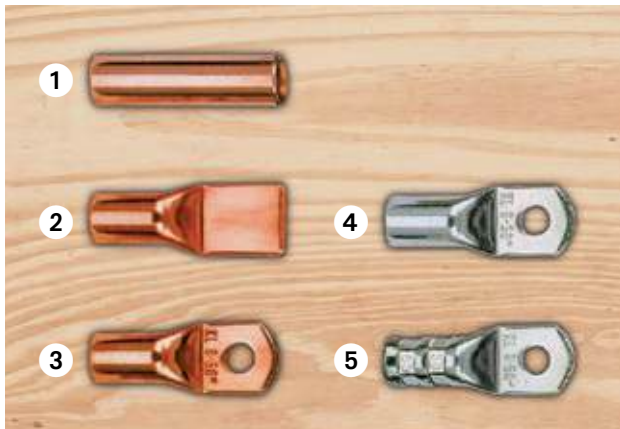
In brief

- ▶ 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 EN 60228
- For cables with compacted round conductors, cables with sector-shaped conductors and to suit individual requirements
- A single source - for everything from the cable lug to the tool for professional electrical installations



1 Source material	4 Tinned end product
2 Folding and crimping	5 After crimping
3 Punching	

► 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.

- 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.

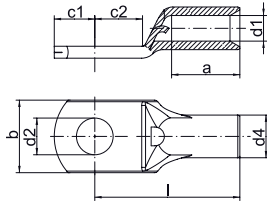
- IEC (International Electric Commission): The IEC is an advisory board for standards in the electrical engineering and electronics sector. The certifications encompass all areas of electrical engineering that have to meet especially high demands.
- UL (Underwriters Laboratories): UL is an independent 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 EN 60228 Cl. 5
- ▶ Simple processing thanks to inspection hole for monitoring full conductor insertion

Characteristics

- Simple and safe connection due to flat contact surfaces and internal chamfer
- Item identification on cable lug

Material

- Copper (EN13600)

Surface

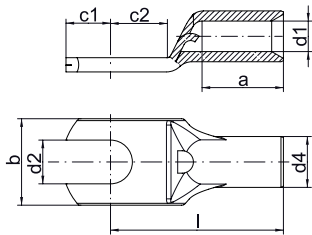
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.30
- You will find further information on the cable descriptions in the technical appendix, page i-6

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

Tubular cable lugs, Cu, fork type



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

Characteristics

- 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

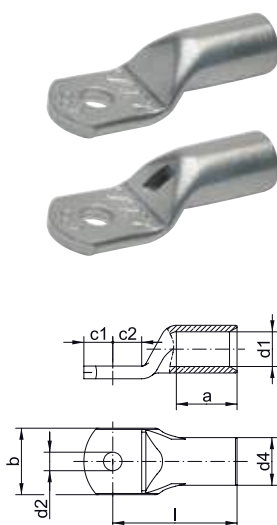
Technical instructions

- Tool: see page 1.30
- You will find further information on the cable descriptions in the technical appendix, page i-6

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



Tubular cable lugs, Cu, standard type with and without inspection hole



- ▶ Approval of the tin-plated cable lugs for use with high-temperature cables 180 °C (based on IEC 61238-1-1): The cable lugs can be used with tin-plated conductors of class 5 (fine-wire)
- ▶ For multi-stranded round conductors, e.g. to 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 and EK 30 ID suitable for fine-stranded conductors

Characteristics

- 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 1.30
- You will find further information on the cable descriptions in the technical appendix, page i-6
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“

Additional information

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

Nominal cross section mm ²	Size of bolt dia.	without insp. hole Part No.	with insp. hole Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
				d1	a	b	d2	d4	c1	c2	l		
6	M5	1R5	1R5MS	3,5	9	10	5,3	6,5	6,50	7,5	21	0,50	100
	M6	1R6	1R6MS	3,5	9	12	6,4	6,5	6,50	7,5	21	0,47	100
	M8	1R8	1R8MS	3,5	9	15	8,4	6,5	10,00	10,0	23	0,54	100
	M10	1R10	1R10MS	3,5	9	17	10,5	6,5	12,00	12,0	25	0,59	100
	M12	1R12	1R12MS	3,5	9	19	13,0	6,5	13,00	13,0	28	0,63	100
10	M5	2R5	2R5MS	4,5	10	12	5,3	7,0	6,50	7,5	22	0,50	100
	M6	2R6	2R6MS	4,5	10	12	6,4	7,0	6,50	7,5	22	0,49	100
	M8	2R8	2R8MS	4,5	10	15	8,4	7,0	10,00	10,0	25	0,58	100
	M10	2R10	2R10MS	4,5	10	17	10,5	7,0	12,00	12,0	27	0,62	100
	M12	2R12	2R12MS	4,5	10	19	13,0	7,0	13,00	13,0	29	0,64	100
16	M5	3R5	3R5MS	5,5	13	12	5,5	8,5	5,50	6,5	26	0,84	100
	M6	3R6	3R6MS	5,5	13	12	6,4	8,5	6,25	7,5	27	0,86	100
	M8	3R8	3R8MS	5,5	13	15	8,3	8,5	8,50	9,5	29	0,93	100
	M10	3R10	3R10MS	5,5	13	17	10,5	8,5	10,50	11,5	31	0,99	100
	M12	3R12	3R12MS	5,5	13	19	13,0	8,5	12,00	13,0	33	1,02	100
25	M5	4R5	4R5MS	7,0	15	14	5,3	10,0	7,50	7,5	30	1,22	25
	M6	4R6	4R6MS	7,0	15	14	5,3	10,0	7,50	7,5	30	1,20	100
	M8	4R8	4R8MS	7,0	15	16	8,4	10,0	10,00	10,0	32	1,31	100
	M10	4R10	4R10MS	7,0	15	18	10,5	10,0	12,00	12,0	34	1,57	100
	M12	4R12	4R12MS	7,0	15	19	13,0	10,0	13,00	13,0	35	1,39	25
35	M14	4R14	4R14MS	7,0	15	21	15,0	10,0	14,50	14,5	38	1,49	25
	M6	5R6	5R6MS	8,5	17	17	6,4	12,0	7,50	7,5	32	1,85	100
	M8	5R8	5R8MS	8,5	17	17	8,4	12,0	10,00	10,0	34	2,00	100
	M10	5R10	5R10MS	8,5	17	19	10,5	12,0	12,00	12,0	37	2,13	100
	M12	5R12	5R12MS	8,5	17	21	13,0	12,0	13,00	13,0	38	2,12	100
	M14	5R14	5R14MS	8,5	17	21	15,0	12,0	14,50	14,5	40	2,18	25
	M16	5R16	5R16MS	8,5	17	26	17,0	12,0	16,00	16,0	42	2,24	25

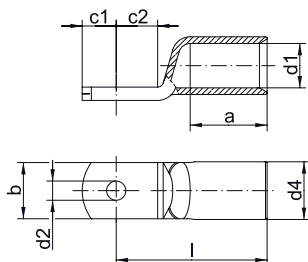
See next page

Tubular cable lugs, Cu, standard type with and without inspection hole

Nominal cross section mm ²	Size of bolt dia.	without insp. hole Part No.	with insp. hole Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
				d1	a	b	d2	d4	c1	c2	l		
50	M6	6R6	6R6MS	10,0	19	20	6,4	14,0	10,00	10,0	37	3,00	25
	M8	6R8	6R8MS	10,0	19	20	8,4	14,0	10,00	10,0	37	2,93	50
	M10	6R10	6R10MS	10,0	19	20	10,5	14,0	12,00	12,0	39	3,08	50
	M12	6R12	6R12MS	10,0	19	23	13,0	14,0	13,00	13,0	43	3,23	50
	M14	6R14	6R14MS	10,0	19	23	15,0	14,0	14,50	14,5	45	3,32	25
	M16	6R16	6R16MS	10,0	19	28	17,0	14,0	16,00	16,0	46	3,38	25
	M20	6R20	6R20MS	10,0	19	30	21,0	14,0	19,00	19,0	48	3,46	25
70	M6	7R6	7R6MS	12,0	21	23	6,4	16,5	10,00	10,0	43	4,49	25
	M8	7R8	7R8MS	12,0	21	23	8,5	16,5	10,00	10,0	43	4,38	50
	M10	7R10	7R10MS	12,0	21	23	10,5	16,5	12,00	12,0	44	4,54	50
	M12	7R12	7R12MS	12,0	21	23	13,0	16,5	13,00	13,0	46	4,63	50
	M14	7R14	7R14MS	12,0	21	23	15,0	16,5	14,50	14,5	48	4,76	25
	M16	7R16	7R16MS	12,0	21	28	17,0	16,5	16,00	16,0	50	4,24	25
	M20	7R20	7R20MS	12,0	21	30	21,0	16,5	19,00	19,0	53	5,09	25
95	M8	8R8	8R8MS	13,5	25	26	8,4	18,0	12,00	12,0	48	5,44	25
	M10	8R10	8R10MS	13,5	25	26	10,5	18,0	12,00	12,0	48	5,40	50
	M12	8R12	8R12MS	13,5	25	26	13,0	18,0	13,00	13,0	49	5,56	50
	M14	8R14	8R14MS	13,5	25	26	15,0	18,0	14,50	14,5	51	5,62	25
	M16	8R16	8R16MS	13,5	25	28	17,0	18,0	16,00	16,0	54	5,82	50
	M20	8R20	8R20MS	13,5	25	36	21,0	18,0	22,00	22,0	60	6,71	25
	M8	9R8	9R8MS	15,0	26	28	8,4	19,5	14,00	14,0	51	6,72	25
120	M10	9R10	9R10MS	15,0	26	28	10,5	19,5	14,00	14,0	51	6,57	50
	M12	9R12	9R12MS	15,0	26	28	13,0	19,5	14,00	14,0	51	6,38	50
	M14	9R14	9R14MS	15,0	26	28	15,0	19,5	15,00	15,0	52	6,45	25
	M16	9R16	9R16MS	15,0	26	30	17,0	19,5	16,00	16,0	54	6,51	50
	M20	9R20	9R20MS	15,0	26	36	21,0	19,5	22,00	22,0	63	7,74	25
	M8	10R8	10R8MS	16,5	30	31	8,5	21,0	14,00	14,0	56	7,78	10
	M10	10R10	10R10MS	16,5	30	31	10,5	21,0	14,00	14,0	56	7,62	10
150	M12	10R12	10R12MS	16,5	30	31	13,0	21,0	15,00	15,0	57	7,73	25
	M14	10R14	10R14MS	16,5	30	31	15,0	21,0	15,00	15,0	57	7,64	10
	M16	10R16	10R16MS	16,5	30	31	17,0	21,0	16,00	16,0	58	7,53	10
	M20	10R20	10R20MS	16,5	30	36	21,0	21,0	22,00	22,0	66	8,80	10
	M10	11R10	11R10MS	19,0	30	35	10,5	24,0	18,00	18,0	65	11,75	10
	M12	11R12	11R12MS	19,0	30	35	13,0	24,0	18,00	18,0	65	11,82	10
	M14	11R14	11R14MS	19,0	30	35	15,0	24,0	18,00	18,0	65	11,39	10
185	M16	11R16	11R16MS	19,0	30	35	17,0	24,0	18,00	18,0	65	11,24	25
	M20	11R20	11R20MS	19,0	30	39	21,0	24,0	22,00	22,0	69	12,00	10
	M10	12R10	12R10MS	21,0	35	39	10,5	26,0	21,50	19,0	72	14,72	10
	M12	12R12	12R12MS	21,0	35	39	13,0	26,0	21,50	19,0	72	14,55	10
	M14	12R14	12R14MS	21,0	35	39	15,0	26,0	21,50	19,0	72	14,24	10
	M16	12R16	12R16MS	21,0	35	39	17,0	26,0	21,50	19,0	72	14,09	25
	M20	12R20	12R20MS	21,0	35	39	21,0	26,0	21,50	19,0	72	13,60	10
300	M12	13R12	13R12MS	23,5	44	43	13,0	29,5	24,00	24,0	87	23,33	5
	M14	13R14	13R14MS	23,5	44	43	15,0	29,5	24,00	24,0	87	23,14	5
	M16	13R16	13R16MS	23,5	44	43	17,0	29,5	24,00	24,0	87	22,74	5
	M20	13R20	13R20MS	23,5	44	43	21,0	29,5	24,00	24,0	87	22,19	5
400	M12	14R12	14R12MS	27,0	44	49	13,0	34,0	24,00	24,0	90	32,41	5
	M14	14R14	14R14MS	27,0	44	49	15,0	34,0	24,00	24,0	90	32,24	5
	M16	14R16	14R16MS	27,0	44	49	17,0	34,0	24,00	24,0	90	31,98	5
	M20	14R20	14R20MS	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 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 and EK 30 ID suitable for fine-stranded conductors

Characteristics

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

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

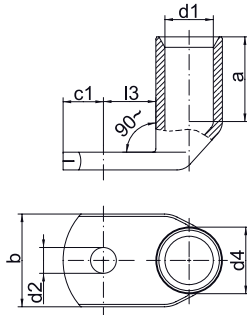
- Tool: see page 1.30
- You will find further information on the cable descriptions in the technical appendix, page i-6
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“

Additional information

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

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
35	M6	5SG6	8.5	17	15.0	6.4	12.0	7.5	7.5	32	1.78	25
		6SG6	10.0	19	15.0	6.5	14.0	10.0	10.0	37	2.95	25
50	M8	6SG8	10.0	19	17.0	8.5	14.0	10.0	10.0	37	2.82	25
	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 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 and EK 30 ID suitable for fine stranded conductors

Characteristics

- 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 1.30
- You will find further information on the cable descriptions in the technical appendix, page I-6
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“

Additional information

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

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

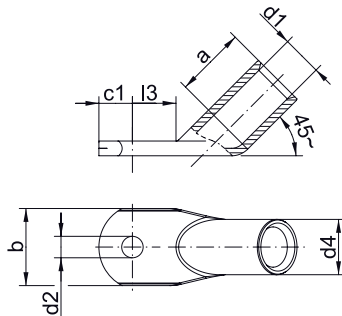
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Angled tubular cable lugs, Cu, 90° angled, standard type

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm							Weight/100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	l3		
50	M6	46R6	10.0	19	20	6.4	14.0	10.0	13	3.34	25
	M8	46R8	10.0	19	20	8.4	14.0	10.0	13	3.28	25
	M10	46R10	10.0	19	20	10.5	14.0	12.0	16	3.47	25
	M12	46R12	10.0	19	23	13.0	14.0	13.0	18	3.42	25
	M14	46R14	10.0	19	23	15.0	14.0	14.5	20	3.55	25
	M16	46R16	10.0	19	28	17.0	14.0	16.0	22	3.58	25
70	M20	46R20	10.0	19	30	21.0	14.0	19.0	24	3.15	25
	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
95	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
	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
120	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
	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
150	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
	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
185	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
	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
240	M20	51R20	19.0	30	39	21.0	24.0	22.0	24	12.00	10
	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 EN 60228
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ Flat contact surface by special angle pressing technology
- ▶ In combination with EKM 60 ID and EK 30 ID suitable for fine-stranded conductors

Characteristics

- 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 1.30
- You will find further information on the cable descriptions in the technical appendix, page i-6
- 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
35	M14	44R1445	7.0	15	21	15.0	10.0	14.5	20	1.55	25
	M6	45R645	8.5	17	17	6.4	12.0	7.5	11	2.05	25
	M8	45R845	8.5	17	17	8.4	12.0	10.0	13	2.20	25
	M10	45R1045	8.5	17	19	10.5	12.0	12.0	15	2.28	25
	M12	45R1245	8.5	17	21	13.0	12.0	13.0	18	2.38	25
	M16	45R1645	8.5	17	26	17.0	12.0	16.0	22	2.40	25

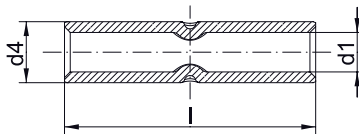
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Angled tubular cable lugs, Cu, 45° angled, standard type

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

Butt connectors, Cu, standard type



- ▶ Approval of the tin-plated cable lugs for use with high-temperature cables 180 °C (based on IEC 61238-1-1): The cable lugs can be used with tin-plated conductors of class 5 (fine-wire)
- ▶ For fine-stranded round conductors, e.g. to EN 60228 Cl. 5, 0,75-4 mm²
- ▶ For multi-stranded round conductors, e.g. to 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 and EK 30 ID suitable for fine-stranded conductors
- ▶ With reducing sleeves also suitable for connecting different cross-sections

Characteristics

- Simple and safe processing due to butt mark
- Item identification on cable lug

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.30
- You will find further information on the cable descriptions in the technical appendix, page i-6
- 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 1.58

Additional information

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

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



Parallel connectors, Cu, standard type



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

Characteristics

- Simple cable entry due to internal chamfer

Material

- Copper (EN13600)

Surface

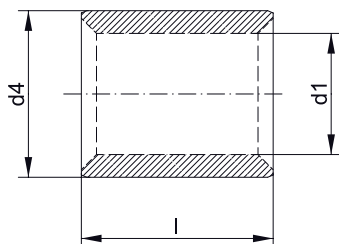
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.30
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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



Nominal cross section mm ²	Part No.	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l		
1.5	148R	1.8	3.3	5	0.03	100
2.5	149R	2.3	4.2	5	0.04	100
4	150R	3.0	5.0	7	0.08	100
6	151R	4.0	6.0	7	0.09	100
10	152R	4.5	7.0	9	0.17	100
16	153R	5.5	8.5	10	0.28	100
25	154R	7.0	10.0	13	0.44	100
35	155R	8.5	12.0	16	0.78	100
50	156R	10.0	14.0	19	1.22	100
70	157R	12.0	16.5	19	1.62	50
95	158R	13.5	18.0	20	1.90	50
120	159R	15.0	19.5	22	2.28	50
150	160R	16.5	21.0	26	3.00	50
185	161R	19.0	24.0	30	4.37	50
240	162R	21.0	26.0	32	5.10	25
300	163R	23.5	29.5	36	8.05	25

T-connectors, Cu, standard type



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

Characteristics

- Simple cable entry due to internal chamfer

Material

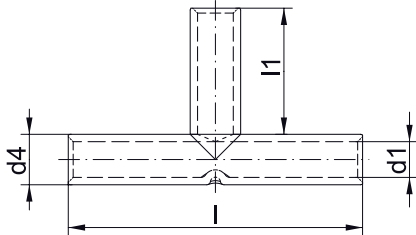
- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

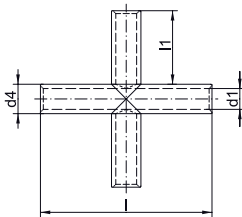
- Tool: see page 1.30
- You will find further information on the cable descriptions in the technical appendix, page i-6
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“
- Reduction sleeves for connecting different conductor cross-sections you will find on page 1.58



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



Cross-connectors, Cu, standard type



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

Characteristics

- Simple cable entry due to internal chamfer

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.30
- You will find further information on the cable descriptions in the technical appendix, page i-6
- 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 1.58

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

Insulated tubular cable lugs, Cu, standard type



- ▶ For multi-stranded round conductors, e.g. to 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

- 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

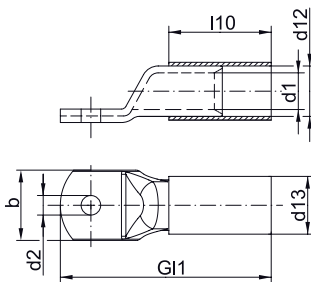
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.32
- You will find further information on the cable descriptions in the technical appendix, page i-6
- Dimensions of tubular cable lugs can be found from page 1.8
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“

Additional information

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



Nominal cross section mm ²	Size of bolt dia.	Part No.	Colour	Dimension mm					weight 100 pcs. ~kg Cu	weight 100 pcs. ~kg Total	Packing unit/ pcs
				d12	d13	d2	Gl1	l10			
10	M5	602R5	Red	7.0	9.0	5.5	35.5	17.0	0.50	0.548	25
	M6	602R6	Red	7.0	9.0	6.5	35.5	17.0	0.49	0.538	25
	M8	602R8	Red	7.0	9.0	8.5	42.0	17.0	0.58	0.628	25
	M10	602R10	Red	7.0	9.0	10.5	46.0	17.0	0.62	0.668	25
	M12	602R12	Red	7.0	9.0	13.0	49.0	17.0	0.64	0.688	25
16	M5	603R5	Blue	8.5	10.5	5.5	39.5	21.0	0.84	0.907	25
	M6	603R6	Blue	8.5	10.5	6.5	41.3	21.0	0.86	0.927	25
	M8	603R8	Blue	8.5	10.5	8.5	45.5	21.0	0.93	0.997	25
	M10	603R10	Blue	8.5	10.5	10.5	49.5	21.0	0.99	1.057	25
	M12	603R12	Blue	8.5	10.5	13.0	54.0	21.0	1.02	1.087	25
25	M5	604R5	Yellow	10.0	12.0	5.5	45.0	24.0	1.22	1.312	25
	M6	604R6	Yellow	10.0	12.0	6.5	46.5	24.0	1.20	1.292	25
	M8	604R8	Yellow	10.0	12.0	8.5	51.0	24.0	1.31	1.402	25
	M10	604R10	Yellow	10.0	12.0	10.5	55.0	24.0	1.57	1.662	25
	M12	604R12	Yellow	10.0	12.0	13.0	57.0	24.0	1.39	1.482	25
35	M14	604R14	Yellow	10.0	12.0	15.0	61.5	24.0	1.49	1.582	25
	M6	605R6	Red	12.0	14.5	6.5	49.5	27.0	1.85	2.010	25
	M8	605R8	Red	12.0	14.5	8.5	54.0	27.0	2.00	2.160	25
	M10	605R10	Red	12.0	14.5	10.5	59.0	27.0	2.13	2.290	25
	M12	605R12	Red	12.0	14.5	13.0	61.0	27.0	2.12	2.280	25
	M14	605R14	Red	12.0	14.5	15.0	64.5	27.0	2.18	2.340	25
	M16	605R16	Red	12.0	14.5	17.0	68.0	27.0	2.24	2.400	25

See next page



Insulated tubular cable lugs, Cu, standard type

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

Insulated butt connectors, Cu, standard type



- ▶ For multi-stranded round conductors, e.g. to 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
- Simple cable entry due to internal chamfer
- Heat resistant to 105 °C

Material

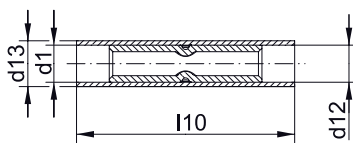
- Connector: Copper (EN 13600)
- Insulation sleeve: PA, halogen-free

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.32
- You will find further information on the cable descriptions in the technical appendix, page i-6
- Dimensions of butt connectors can be found on page 1.15
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“



Nominal cross section mm ²	Part No.	Colour	Dimension mm				Gewicht 100 St. ~kg Cu	Gewicht 100 St. ~kg Ges.	Packing unit/pcs
			d1	d12	d13	l10			
10	622R	Red	4,5	7.0	9.0	42	0.72	0.84	25
16	623R	Blue	5,5	8.5	10.5	50	1.00	1.16	25
25	624R	Yellow	7,0	10.0	12.0	57	1.41	1.63	25
35	625R	Red	8,5	12.0	14.4	65	2.24	2.60	25
50	626R	Blue	10,0	14.0	16.4	72	3.36	3.81	25
70	627R	Yellow	12,0	16.4	19.0	80	4.87	5.46	25
95	628R	Red	13,5	17.8	20.8	87	5.91	6.74	25



Tubular cable lugs, Cu, solid conductor type



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

Characteristics

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

Material

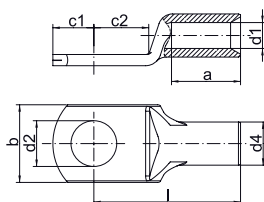
- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

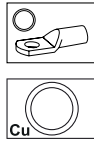
Technical instructions

- Tool: see page 1.35
- You will find further information on the cable descriptions in the technical appendix, page i-6



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

Butt connectors, Cu, solid conductor type



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

Characteristics

- Simple cable entry due to internal chamfer

Material

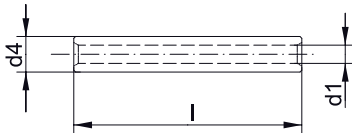
- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

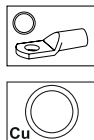
Technical instructions

- Tool: see page 1.35
- You will find further information on the cable descriptions in the technical appendix, page i-6



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

T-connectors, Cu, solid conductor type



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

Characteristics

- Simple cable entry due to internal chamfer

Material

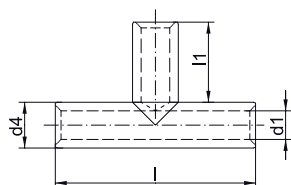
- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.35
- You will find further information on the cable descriptions in the technical appendix, page i-6



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



Cross-connectors, Cu, solid conductor type



- ▶ For single-stranded round conductors, e.g. to 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

- Simple cable entry due to internal chamfer

Material

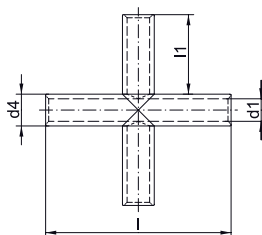
- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.35
- You will find further information on the cable descriptions in the technical appendix, page i-6



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

Tubular cable lugs, Cu, F-series



- ▶ For fine and superfine stranded round conductors, e.g. to 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

- 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

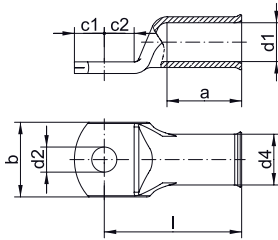
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.33
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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



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

See next page



Tubular cable lugs, Cu, F-series

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

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



- ▶ For fine and superfine stranded round conductors, e.g. to 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

- Tube dimensions suitable for fine stranded conductors
- Flat contact surface and internal chamfer for simple cable insertion

Material

- Copper (EN13600)

Surface

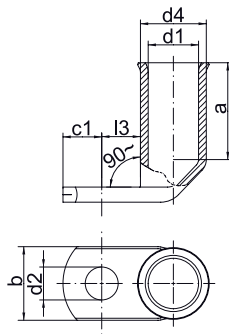
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.33
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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



Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	l3		
10	M5	742F5	5.5	14	12	5.3	8.0	6.25	10.5	0.80	50
	M6	742F6	5.5	14	12	6.4	8.0	6.25	10.5	0.78	50
	M8	742F8	5.5	14	16	8.4	8.0	9.00	12.5	0.84	50
	M10	742F10	5.5	14	16	10.5	8.0	10.50	14.5	0.88	50
	M12	742F12	5.5	14	19	13.0	8.0	12.00	16.0	0.90	50
	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
	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
	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
	M12	745F12	9.2	19	19	13.0	12.4	13.00	16.0	2.26	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
	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° and 45° 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 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
- Simple cable entry due to internal chamfer

Material

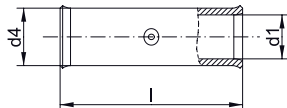
- Copper (EN13600)

Surface

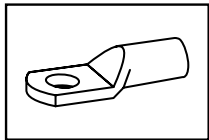
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.33
- You will find further information on the cable descriptions in the technical appendix, page i-6



Nominal cross section mm ²	Part No.	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l		
10	722F	5.5	8.0	38	0.90	100
16	723F	6.6	9.5	38	1.25	100
25	724F	7.9	11.0	38	1.56	50
35	725F	9.2	12.5	45	2.19	50
50	726F	11.0	15.0	45	3.37	50
70	727F	13.0	17.0	54	4.65	50
95	728F	14.5	19.0	56	6.05	25
120	729F	16.2	21.0	60	7.58	25
150	730F	18.0	23.0	68	9.83	10
185	731F	20.6	26.0	75	13.28	10

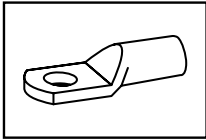


Tool application chart

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	6 - 50	K5		2.18		
		K05		2.19		
	6 - 120	K06		2.19		
	0,75 - 16	K2		2.16		
	16 - 95	K95		2.17		
	25 - 150	K09		2.20		
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	0,75 - 10	K50		2.23	2.82	
		EK50ML		6.6	2.82	
	6 - 25	K50		2.23	2.82	
		EK50ML		6.6	2.82	
	6 - 150	K354		2.24	2.84	
	6 - 300	K22		2.26	2.87	
Hand hydraulic crimping tools	6 - 300	HK6022		2.56	2.87	
	10 - 240	HK60VP		2.58		
	16 - 300	HK60VPFT		2.59		
	16 - 400	HK12030		2.60	2.91	
		HK12042		2.62	2.91	
		HK120U		2.64	2.91	

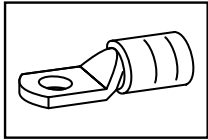
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Tool application chart

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

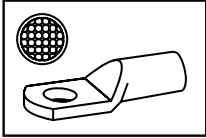
Tool type	Crimping range corresponds to nominal cross-section mm²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Battery powered crimping tools	6 - 120	EK30IDML		2.30		☺
	6 - 150	EK354ML		2.32	2.84	☺
		EK354		2.36	2.84	☺
	6 - 300	EKM6022		2.38	2.87	☺
		EK6022		2.40	2.87	☺
		EKM6022IS		4.6	2.87	☺
		EKM60UNV	+UA22	6.11	2.87	☺
		EK60UNV	+UA22	6.12	2.87	☺
	10 - 240	EK60VP		2.42		☺
		EKM60ID		2.44		☺
		EKM60IDIS		4.8		☺
	16 - 300	EK60VPFT		2.43		☺
	16 - 400	EK12032		2.46	2.91	☺
		EK12042		2.48	2.91	☺
		EK120U		2.50	2.91	☺
		EK135FT	+UA15T	2.52	2.91	☺
		EK120UNV	+UA12TKL	6.13	2.91	☺
	70 - 185	EK120ID		2.45		☺
Hydraulic crimping systems	6 - 300	THK22		2.68	2.87	☺
	16 - 400	THK120		2.72	2.91	☺
		HK252	+25A13	2.78	2.91 + 2.96	☺
Hydraulic crimping heads	6 - 300	PK22		2.68	2.87	☺
		PK60UNV	+UA22	6.10	2.87	☺
	10 - 240	PK60VP		2.70		☺
		PK60ID		2.71		☺
	16 - 300	PK60VPFT		2.70		☺
	16 - 400	PK12042		2.72	2.91	☺
		PK120U		2.74	2.91	☺
		PK252	+25A13	2.76	2.91 + 2.96	☺



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		2.24	2.84	○
	10 - 150	K22		2.26	2.87	○
Hand hydraulic crimping tools	10 - 150	HK12030		2.60	2.92	○
		HK12042		2.62	2.92	○
		HK120U		2.64	2.92	○
		HK6022		2.56	2.87	○
Battery powered crimping tools	10 - 70	EK354		2.36	2.84	○
		EK354ML		2.32	2.84	○
	10 - 150	EK12032		2.46	2.92	○
		EK12042		2.48	2.92	○
		EK120U		2.50	2.92	○
		EK120UNV	+UA12TKL	6.13	2.92	○
		EK135FT	+UA15T	2.52	2.92	○
		EK6022		2.40	2.87	○
		EK60UNV	+UA22	6.12	2.87	○
		EKM6022		2.38	2.87	○
		EKM6022IS		4.6	2.87	○
		EKM60UNV	+UA22	6.11	2.87	○
Hydraulic crimping systems	10 - 150	HK252	+25A13	2.78	2.92	○
		THK120		2.72	2.92	○
		THK22		2.68	2.87	○
Hydraulic crimping heads	10 - 150	PK12042		2.72	2.92	○
		PK120U		2.74	2.92	○
		PK22		2.68	2.87	○
		PK252	+25A13	2.76	2.92	○
		PK60UNV	+UA22	6.10	2.87	○



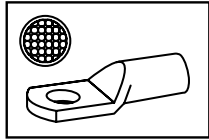
Tool application chart

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		2.18		
	16 - 95	K95		2.17		
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	10 - 35	K354		2.24	2.84	
	10 - 70	K22		2.26	2.88	
Hand hydraulic crimping tools	10 - 70	HK6022		2.56	2.88	
	10 - 150	HK12030		2.60	2.92	
		HK12042		2.62	2.92	
		HK120U		2.64	2.92	
		HK60VP		2.58		
	16 - 300	HK60VPFT		2.59		
Battery powered crimping tools	6 - 120	EK30IDML		2.30		
	10 - 35	EK354ML		2.32	2.84	
		EK354		2.36	2.84	
	10 - 70	EKM6022		2.38	2.88	
		EK6022		2.40	2.88	
		EKM6022IS		4.6	2.88	
		EKM60UNV	+UA22	6.11	2.88	
		EK60UNV	+UA22	6.12	2.88	
		EK12032		2.46	2.92	
	10 - 150	EK12042		2.48	2.92	
		EK120U		2.50	2.92	
		EK135FT	+UA15T	2.52	2.92	
		EK120UNV	+UA12TKL	6.13	2.92	
		EK60VP		2.42		
	10 - 240	EKM60ID		2.44		
		EKM60IDIS		4.8		
		EK60VPFT		2.43		
	70 - 240	EK120ID		2.45		
Hydraulic crimping systems	10 - 70	THK22		2.68	2.88	
	10 - 150	THK120		2.72	2.92	
	10 - 240	HK252	+25A13	2.78	2.92 + 2.96	

See next page

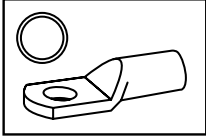


Tool application chart

Tubular cable lugs and butt connectors for fine stranded conductors

Part 2 of 2

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Hydraulic crimping heads	10 - 70	PK22		2.68	2.88	
		PK60UNV	+UA22	6.10	2.88	
	10 - 150	PK12042		2.72	2.92	
		PK120U		2.74	2.92	
	10 - 240	PK252	+25A13	2.76	2.92 + 2.96	
		PK60VP		2.70		
		PK60ID		2.71		
	16 - 300	PK60VPFT		2.70		



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		2.16		☺
	1,5 - 4	K93		2.15		⬡
	6 - 10	K94		2.15		⬡
	25 - 50*	K05		2.19		⬡
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	1,5 - 10	K50		2.23	2.82	⬡
		EK50ML		6.6	2.82	⬡
	1,5 - 16	K22		2.26	2.88	⬡
Hand hydraulic crimping tools	1,5 - 16	HK6022		2.56	2.88	⬡
Battery powered crimping tools	1,5 - 16	EKM6022		2.38	2.88	⬡
		EK6022		2.40	2.88	⬡
		EKM6022IS		4.6	2.88	⬡
		EKM60UNV	+UA22	6.11	2.88	⬡
		EK60UNV	+UA22	6.12	2.88	⬡
Hydraulic crimping systems	1,5 - 16	THK22		2.68	2.88	⬡
Hydraulic crimping heads	1,5 - 16	PK22		2.68	2.88	⬡
		PK60UNV	+UA22	6.10	2.88	⬡

*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

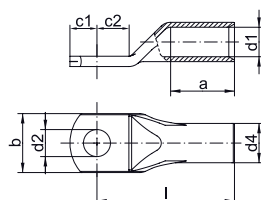
High-quality stainless steel ensures extra resilience, especially in aggressive environments. The resistance is retained.

- 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 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

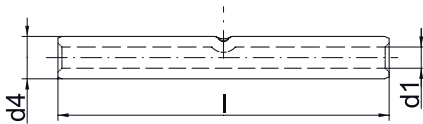
- Tool: see page 1.43
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/ pcs
			d1	a	b	c1	c2	d2	d4	l		
0.5 - 1	M4	79V4	1.6	6	6.5	4.5	4.5	4.3	3.2	13	0.080	100
	M5	79V5	1.6	6	7.5	5	5.5	5.3	3.2	14	0.080	100
1.5 - 2.5	M4	80V4	3.0	8	9.0	5	5.5	4.3	5.0	17	0.260	100
	M5	80V5	3.0	8	9.0	5	6	5.5	5.0	17	0.190	100
	M6	80V6	3.0	8	9.5	6.5	6.5	6.5	5.0	19	0.215	100
4 - 6	M4	81V4	4.0	9	9.0	5	5.5	4.3	6.0	18	0.260	100
	M5	81V5	4.0	9	9.5	6	6	5.5	6.0	19	0.280	100
	M6	81V6	4.0	9	10.0	7	6.5	6.5	6.0	19	0.280	100
10	M5	82V5	5.0	10	12.5	6.5	7.5	5.5	8.0	22	0.710	100
	M6	82V6	5.0	10	12.5	6.5	7.5	6.5	8.0	22	0.780	100
	M8	82V8	5.0	10	15.0	9	10	8.5	8.0	25	0.780	100
16	M5	83V5	6.0	13	12.0	5.5	6.5	5.5	8.0	28	0.500	50
	M6	83V6	6.0	13	12.0	6	7.5	6.5	8.0	28	0.550	50
	M8	83V8	6.0	13	15.0	8.5	9.5	8.5	8.0	29	0.600	50
25	M6	84V6	7.0	15	14.0	7.5	7.5	6.5	10.0	30	1.210	50
	M8	84V8	7.0	15	16.0	9	10	8.5	10.0	32	1.850	50
35	M6	85V6	9.0	17	17.0	7.5	7.5	6.5	12.0	32	1.600	50
	M8	85V8	9.0	17	17.0	10	10	8.5	12.0	35	1.850	50
50	M6	86V6	10.0	19	20.0	10	10	6.5	14.0	37	2.800	50
	M8	86V8	10.0	19	20.0	10	10	8.5	14.0	37	2.600	50
	M10	86V10	10.0	19	20.0	12	12	10.5	14.0	39	2.800	50
	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 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 1.43
- You will find further information on the cable descriptions in the technical appendix, page i-6

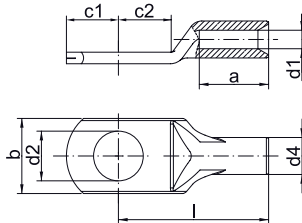
Additional information

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

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



Tubular cable lug, Ni



- ▶ For multi-stranded round conductors, e.g. to 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

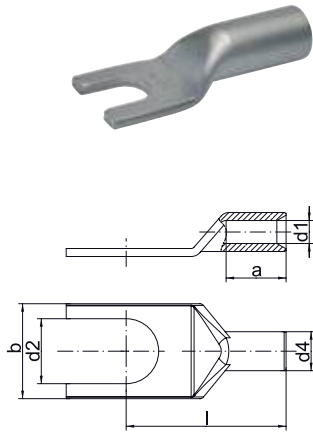
- Nickel alloy

Technical instructions

- Tool: see page 1.43
- You will find further information on the cable descriptions in the technical appendix, page i-6

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/ pcs
			d1	a	b	d2	d4	c1	c2	l		
0.5 - 1	M3	56N3	1.6	4	6.5	3.2	3.2	3.5	4.5	13	0.080	100
	M4	56N4	1.6	6	6.5	4.3	3.2	4.5	4.5	13	0.080	100
	M5	56N5	1.6	6	7.5	5.3	3.2	5.0	5.5	14	0.080	100
1.5 - 2.5	M3	57N3	2.3	6	7.0	3.2	3.9	3.5	5.0	13	0.105	100
	M4	57N4	2.3	6	7.0	4.3	3.9	4.5	5.0	13	0.105	100
	M5	57N5	2.3	6	7.5	5.3	3.9	5.0	5.5	14	0.105	100
	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 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

- Nickel alloy

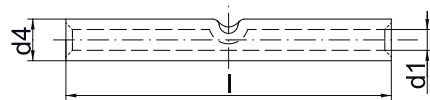
Technical instructions

- Tool: see page 1.43
- You will find further information on the cable descriptions in the technical appendix, page i-6

Nominal cross section mm ²	Size of bolt dia.	Part No.	Dimension mm						Weight/ 100 pcs. ~ kg	Packing unit/ pcs
			d1	a	b	d2	d4	l		
0.5 - 1	M4	56C4	1.6	5	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 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

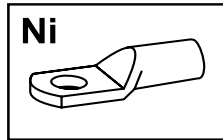
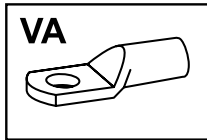
Material

- Nickel alloy

Technical instructions

- Tool: see page 1.43
- You will find further information on the cable descriptions in the technical appendix, page i-6

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



Tool application chart

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

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0,5 - 16	K25		2.17		☺
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	1,5 - 16	K354		2.24	2.85	☺ + ☺
	10 - 50	K22		2.26	2.88	☺
Hand hydraulic crimping tools	10 - 50	HK6022		2.56	2.88	☺
	16 - 95	HK12030		2.60	2.92	☺ + ☺
		HK12042		2.62	2.92	☺ + ☺
		HK120U		2.64	2.92	☺ + ☺
Battery powered crimping tools	1,5 - 16	EK354ML		2.32	2.85	☺ + ☺
		EK354		2.36	2.85	☺ + ☺
	10 - 50	EKM6022		2.38	2.88	☺
		EK6022		2.40	2.88	☺
		EKM6022IS		4.6	2.88	☺
		EKM60UNV	+UA22	6.11	2.88	☺
		EK60UNV	+UA22	6.12	2.88	☺
	10 - 95	EK12032		2.46	2.92	☺ + ☺
		EK12042		2.48	2.92	☺ + ☺
		EK120U		2.50	2.92	☺ + ☺
		EK135FT	+UA15T	2.52	2.92	☺ + ☺
		EK120UNV	+UA12TKL	6.13	2.92	☺ + ☺
Hydraulic crimping systems	10 - 50	THK22		2.68	2.88	☺
	16 - 95	THK120		2.72	2.92	☺ + ☺
		HK252	+25A13	2.78	2.92	☺ + ☺
Hydraulic crimping heads	10 - 50	PK22		2.68	2.88	☺
		PK60UNV	+UA22	6.10	2.88	☺
	16 - 95	PK12042		2.72	2.92	☺ + ☺
		PK120U		2.74	2.92	☺ + ☺
		PK252	+25A13	2.76	2.92	☺ + ☺



CONFORMITY - COPPER COMPRESSION CABLE LUGS AND CONNECTORS TO DIN

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



In brief

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

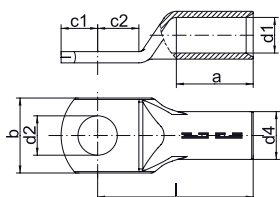
► Clear markings

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 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
- 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 1.59
- You will find further information on the cable descriptions in the technical appendix, page i-6
- 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 bright version on request. Part Number appendix „BK“
- Possible as a special version with barrier on request
- 10 - 800 mm² IEC-tested
- * = Bore not standardised

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

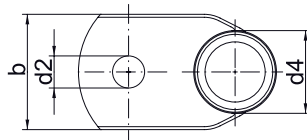
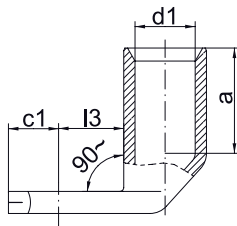
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Compression cable lugs to DIN, Cu

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



Angled compression cable lugs, Cu, 90° angled



- ▶ For round conductors, e.g. to 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

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.59
- You will find further information on the cable descriptions in the technical appendix, page i-6
- 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 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

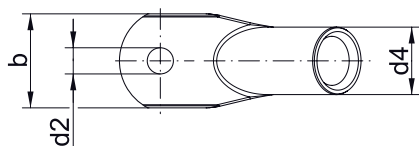
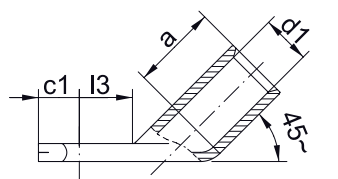
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Angled compression cable lugs, Cu, 90° angled

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



Angled compression cable lugs, Cu, 45° angled



- ▶ For round conductors, e.g. to 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
- Simple cable entry due to internal chamfer

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.59
- You will find further information on the cable descriptions in the technical appendix, page i-6
- 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 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
	M 6	163R645	8	20,5	13,0	5,5	6,4	8,5	8,0	11	1,20	50
16	M 8	163R845	8	20,5	13,0	5,5	8,4	8,5	10,5	13	0,28	50
	M 10	163R1045	8	20,5	17,0	5,5	10,5	8,5	12,5	15	1,34	50
	M 12	163R1245	8	20,5	18,0	5,5	13,0	8,5	13,0	18	1,35	50
	M 6	164R645	10	20,5	14,0	7,0	6,4	10,0	8,0	11	1,49	25
25	M 8	164R845	10	20,5	16,0	7,0	8,4	10,0	10,5	13	1,60	25
	M 10	164R1045	10	20,5	17,0	7,0	10,5	10,0	12,5	15	1,64	25
	M 12	164R1245	10	20,5	19,0	7,0	13,0	10,0	13,5	18	1,73	25
	M 8	165R845	12	20,5	17,0	8,2	8,4	12,5	10,5	13	2,72	25
35	M 10	165R1045	12	20,5	19,0	8,2	10,5	12,5	12,5	15	2,92	25
	M 12	165R1245	12	20,5	21,0	8,2	13,0	12,5	13,5	18	2,98	25
	M 8	166R845	14	29,0	20,0	10,0	8,4	14,5	10,5	13	4,63	25
	M 10	166R1045	14	29,0	22,0	10,0	10,5	14,5	12,5	16	4,84	25
50	M 12	166R1245	14	29,0	24,0	10,0	13,0	14,5	13,5	18	4,94	25
	M 14	166R1445	14	29,0	24,0	10,0	15,0	14,5	14,0	20	4,96	25
	M 16	166R1645	14	29,0	28,0	10,0	17,0	14,5	16,5	22	4,92	25

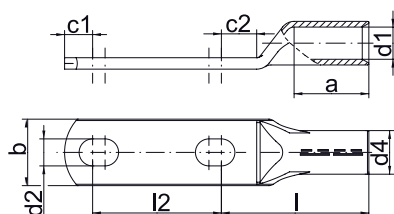
see next page

Angled compression cable lugs, Cu, 45° angled

Nominal cross section 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 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
- 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 1.59
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

- Part Number appendix for bright version „BK“

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

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



- ▶ Special design for mounting of 2 multi-stranded cables, e.g. to EN 60228 Cl. 2
- ▶ With crimp markings for correct crimp positioning

Characteristics

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

Material

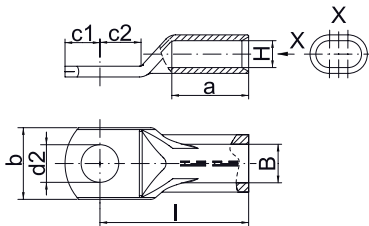
- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.60
- You will find further information on the cable descriptions in the technical appendix, page i-6



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

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



- ▶ Special design for mounting of 2 multi-stranded cables, e.g. to EN 60228 Cl. 2
- ▶ With crimp markings for correct crimp positioning

Characteristics

- Simple cable entry due to internal chamfer
- Flat contact surface by special pressing technique

Material

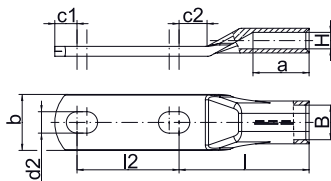
- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

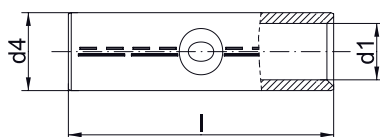
- Tool: see page 1.60
- You will find further information on the cable descriptions in the technical appendix, page i-6



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 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
- Simple cable entry due to internal chamfer

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

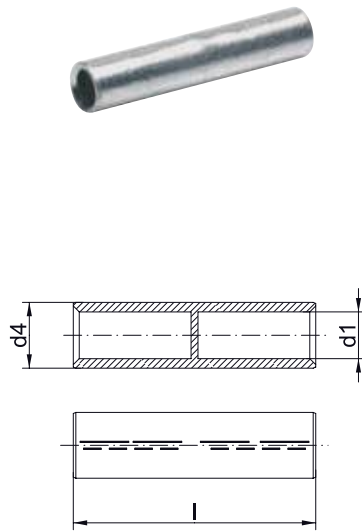
- Tool: see page 1.59
- You will find further information on the cable descriptions in the technical appendix, page i-6
- Sleeves for 3-core and 4-core cables see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“
- Reduction sleeves for connecting unequal cross-sections can be found on page 1.58

Additional information

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

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

Compression joints, Cu



- ▶ For round conductors, e.g. to 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
- 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 1.59
- You will find further information on the cable descriptions in the technical appendix, page i-6
- 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 1.58

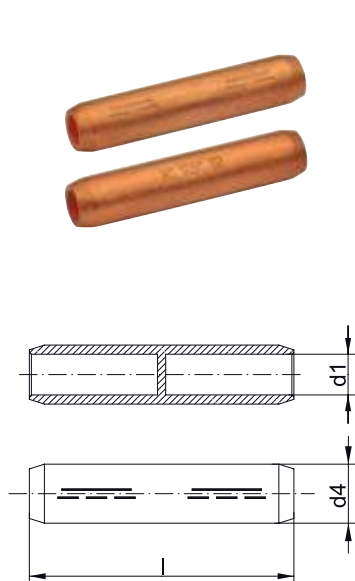
Additional information

- Part Number appendix for bright version „BK“

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



Compression joint for cable connections 10 - 30 kV, copper



- ▶ For round conductors, e.g. to 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
- Simple cable entry due to internal chamfer

Suitable for

- Non-tension connections

Material

- Copper (EN13600)

Surface

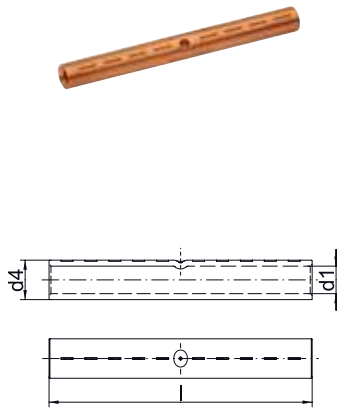
- Bright

Technical instructions

- Tool: see page 1.59
- You will find further information on the cable descriptions in the technical appendix, page i-6
- 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 1.58

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

- Tool: see page 1.59
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

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



Reduction sleeves, Cu



- ▶ For multi-stranded, round conductors e.g. to 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

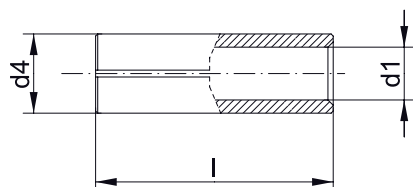
- Copper (EN13600)

Surface

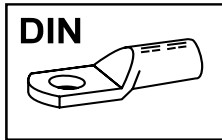
- Bright

Technical instructions

- Refer to the installation instructions in the technical appendix on page i-6



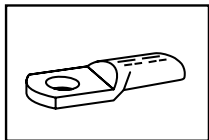
Part No.	Nominal cross section mm ² from	Nominal cross section mm ² to	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	d4	l		
RH2510	25	10	4.6	6.6	25	0.358	25
RH2516	25	16	5.5	6.6	25	0.350	25
RH3510	35	10	4.5	8.0	25	0.707	25
RH3516	35	16	5.5	8.0	25	0.570	25
RH3525	35	25	7.0	8.0	25	0.253	25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



Tool application chart

Compression cable lugs and compression joints

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	25 - 150	K09D		2.21		⬡
	6 - 120	K06D		2.20		⬡
	6 - 50	K05D		2.19		⬡
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	6 - 25	EK50ML		6.6	2.82	⬡
		K50		2.23	2.82	⬡
	6 - 120	K354		2.24	2.85	⬡
	6 - 300	K22		2.26	2.88	⬡
Hand hydraulic crimping tools	6 - 300	HK6022		2.56	2.88	⬡
	10 - 300	HK12030		2.60	2.92	⬡
		HK12042		2.62	2.92	⬡
		HK120U		2.64	2.92	⬡
Battery powered crimping tools	6 - 120	EK354		2.36	2.85	⬡
		EK354ML		2.32	2.85	⬡
	6 - 300	EK6022		2.40	2.88	⬡
		EK60UNV	+UA22	6.12	2.88	⬡
		EKM6022		2.38	2.88	⬡
		EKM6022IS		4.6	2.88	⬡
		EKM60UNV	+UA22	6.11	2.88	⬡
	10 - 300	EK12032		2.46	2.92	⬡
		EK12042		2.48	2.92	⬡
		EK120U		2.50	2.92	⬡
		EK120UNV	+UA12TKL	6.13	2.92	⬡
	10 - 625	EK135FT	+UA15T	2.52	2.92 + 2.96	⬡
Hydraulic crimping systems	6 - 300	THK22		2.68	2.88	⬡
	10 - 625	HK252	+25A13	2.78	2.92 + 2.96	⬡
	10 - 300	THK120		2.72	2.92	⬡
Hydraulic crimping heads	6 - 300	PK22		2.68	2.88	⬡
		PK60UNV	+UA22	6.10	2.88	⬡
	10 - 300	PK12042		2.72	2.92	⬡
		PK120U		2.74	2.92	⬡
	10 - 625	PK252	+25A13	2.76	2.92 + 2.96	⬡



Tool application chart

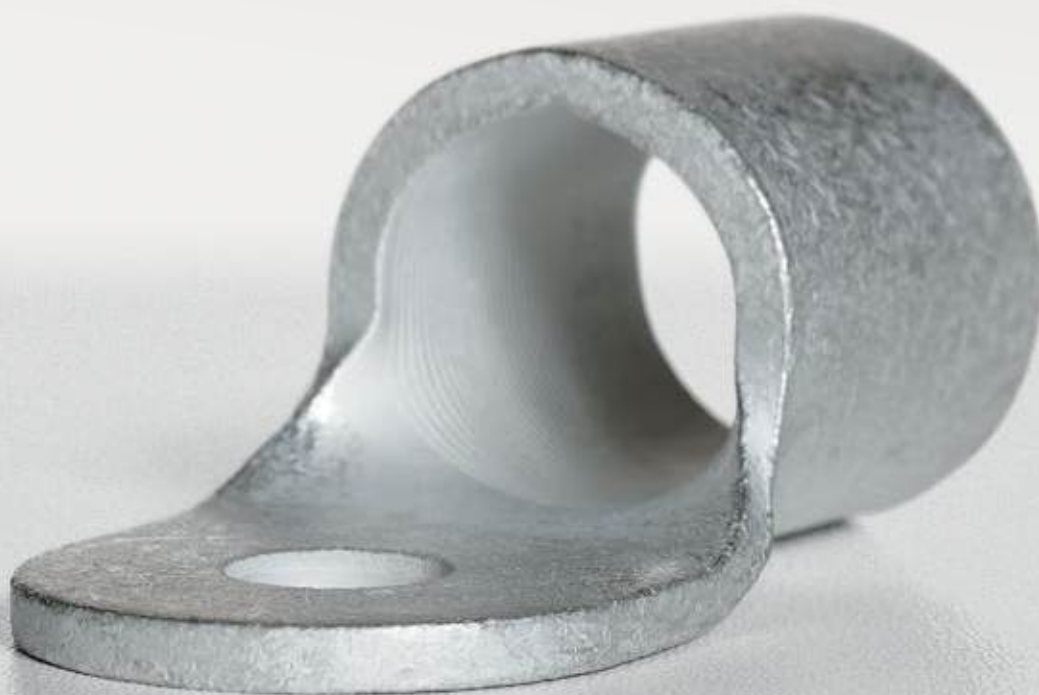
Double compression cable lugs

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	2x70	K22		2.26	2.59	○
Hand hydraulic crimping tools	2x50 - 2x120	HK12030		2.60	2.93	○
		HK12042		2.62	2.93	○
		HK120U		2.64	2.93	○
	2x70	HK6022		2.56	2.59	○
Battery powered crimping tools	2x50 - 2x120	EK12032		2.46	2.93	○
		EK12042		2.48	2.93	○
		EK120U		2.50	2.93	○
		EK135FT	+UA15T	2.52	2.93	○
		EK120UNV	+UA12TKL	6.13	2.93	○
	2x70	EKM6022		2.38	2.59	○
		EK6022		2.40	2.59	○
		EKM6022IS		4.6	2.59	○
		EKM60UNV	+UA22	6.11	2.59	○
		EK60UNV	+UA22	6.12	2.59	○
Hydraulic crimping systems	2x50 - 2x120	THK120		2.72	2.93	○
		HK252	+25A13	2.78	2.93	○
	2x70	THK22		2.68	2.59	○
Hydraulic crimping heads	2x50 - 2x120	PK12042		2.72	2.93	○
		PK120U		2.74	2.93	○
		PK252	+25A13	2.76	2.93	○
	2x70	PK22		2.68	2.59	○
		PK60UNV	+UA22	6.10	2.59	○



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.



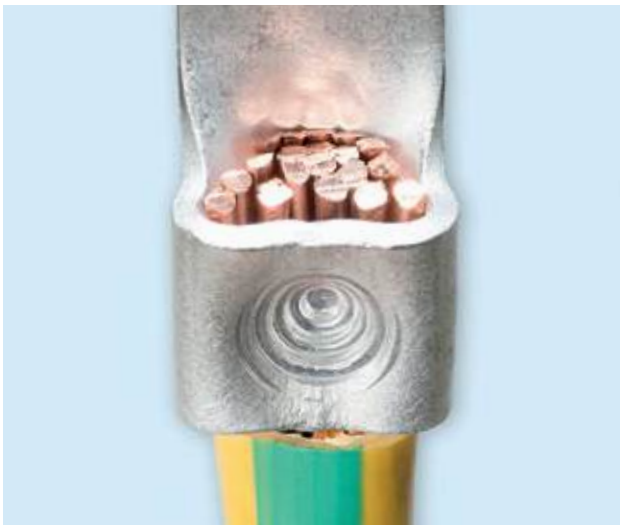
In brief

- ▶ 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

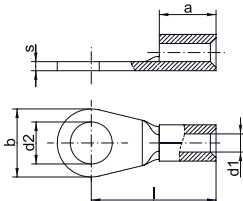
Klauke products make your day-to-day work easier. Thanks to the widened insulation, the conductor can be very conveniently inserted into our insulated solderless terminals. The insulation remains intact even after crimping, eliminating the need for retrospective insulation. Everything accomplished in 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 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 1.72
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

Nominal cross section mm ²	Nominal size to DIN	Part No.	Hint	Dimension mm						Weight/ 100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	l	s		
0.5 - 1	2.5 - 1	162025		5	6	1.6	2.8	11	0.8	0.060	100
	3 - 1	16203		5	6	1.6	3.2	11	0.8	0.060	100
	3.5 - 1	162035		5	6	1.6	3.7	11	0.8	0.055	100
	4 - 1	16204		5	8	1.6	4.3	12	0.8	0.070	100
	5 - 1	16205		5	10	1.6	5.3	13	0.8	0.090	100
	6 - 1	16206	*	5	11	1.6	6.5	15	0.8	0.080	100
	8 - 1	16208	*	5	14	1.6	8.4	17	0.8	0.130	100
	10 - 1	162010	*	5	18	1.6	10.5	19	0.8	0.130	100
1.5 - 2.5	3 - 2.5	16303		5	6	2.3	3.2	11	0.8	0.065	100
	4 - 2.5	16304		5	8	2.3	4.3	12	0.8	0.080	100
	3.5 - 2.5	163035		5	6	2.3	3.7	11	0.8	0.065	100
	5 - 2.5	16305		5	10	2.3	5.3	14	0.8	0.090	100
	6 - 2.5	16306		5	11	2.3	6.5	16	0.8	0.110	100
	8 - 2.5	16308		5	14	2.3	8.4	17	0.8	0.130	100
	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

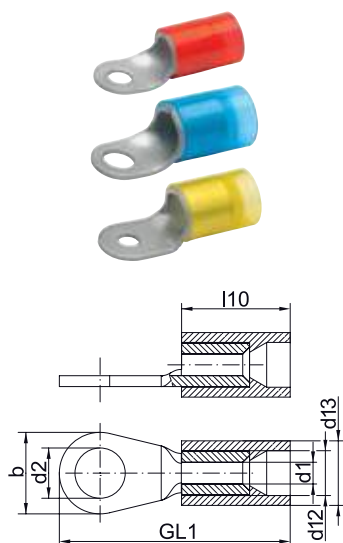
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Solderless terminals to DIN, Cu

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



Insulated solderless terminals, Cu with Easy-Entry



- ▶ For round conductors, e.g. to 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 1.73
- You will find further information on the cable descriptions in the technical appendix, page i-6

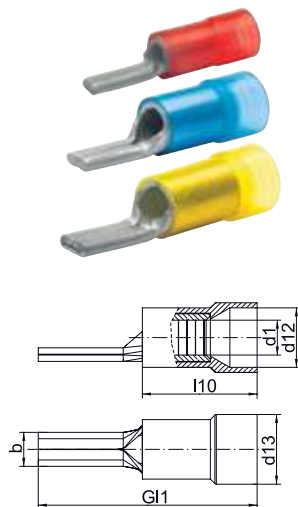
Nominal cross section mm ²	Part No.	Colour	Dimension mm							Weight 100 pcs. ~kg Cu	Weight 100 pcs. ~kg Total	Packing unit/ pcs
			b	d1	d12	d13	d2	GL1	l10			
10	6526	Red	11	4.5	6.7	8.6	6.5	34.0	19.0	0.24	0.28	100
	6528	Red	14	4.5	6.7	8.6	8.4	37.5	19.0	0.29	0.33	100
	65210	Red	18	4.5	6.7	8.6	10.5	41.5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

see next page

Insulated solderless terminals, Cu with Easy-Entry

Nominal cross section mm ²	Part No.	Colour	Dimension mm							Weight 100 pcs. ~kg Cu	Weight 100 pcs. ~kg Total	Packing unit/ pcs
			b	d1	d12	d13	d2	Gl1	l10			
70	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
	65710		22	13.0	17.4	20.0	10.5	61.5	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
95	65810		24	15.0	20.5	23.5	10.5	70.0	34.0	4.10	4.50	25
	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
120	65910		24	17.0	23.5	26.7	10.5	79.0	36.0	5.60	6.10	25
	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
150	66010		30	19.0	26.0	29.2	10.5	80.0	39.0	7.60	8.40	25
	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 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

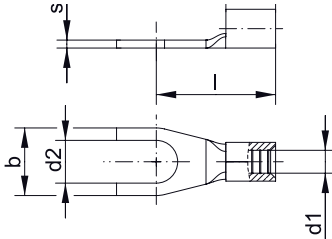
Technical instructions

- Tool: see page 1.73
- You will find further information on the cable descriptions in the technical appendix, page i-6

Nominal cross section mm ²	Part No.	Colour	Dimension mm						Weight 100 pcs. ~kg Cu	Weight 100 pcs. ~kg Total	Packing unit/ pcs
			b	d1	d12	d13	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 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 1.72
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

- 0.5 - 6 mm² not UL-certified

Nominal cross section mm ²	Nominal size to DIN	Part No.	Dimension mm						Weight 100 pcs. ~kg	Packing unit/ pcs
			a	b	d1	d2	l	s		
0.5 - 1	3 - 1	1620C3	5.0	6.0	1.6	3.2	11.0	0.8	0.060	100
	3.5 - 1	1620C35	5.0	6.0	1.6	3.7	11.0	0.8	0.060	100
	4 - 1	1620C4	5.0	8.0	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	11.0	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 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

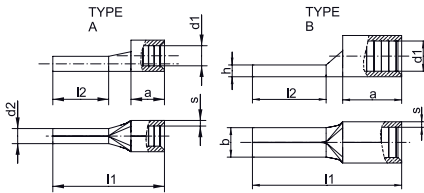
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.72
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

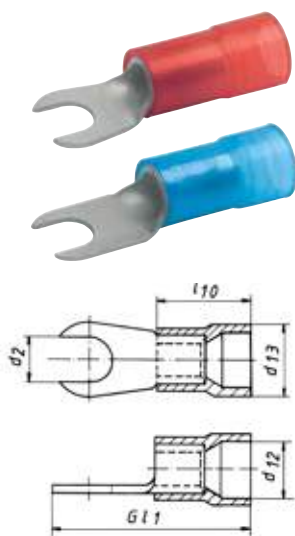
- * = not standardised
- 0.5 - 6 mm² not UL-tested



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



Insulated solderless terminals for meter connections, Cu, fork type



- ▶ For round conductors, e.g. to 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

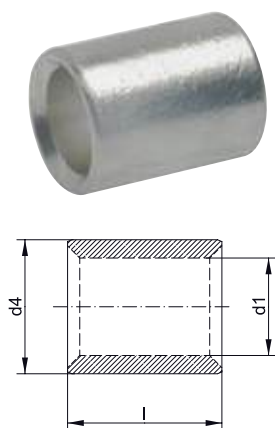
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.73
- You will find further information on the cable descriptions in the technical appendix, page i-6

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	Red	7.0	9.6	5.3	33.5	19.0	0.24	0.28	100
	652C6	Red	7.0	9.6	6.4	33.5	19.0	0.26	0.30	100
16	653C6	Blue	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 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

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

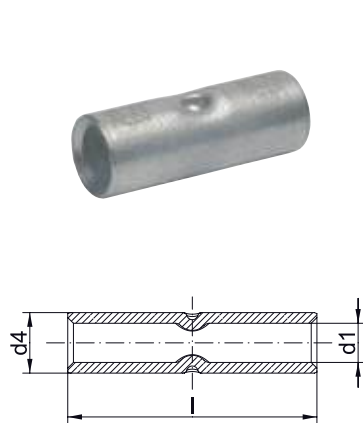
- Tool: see page 1.72
- You will find further information on the cable descriptions in the technical appendix, page i-6

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 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

Material

- Copper (EN13600)

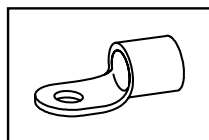
Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.72
- You will find further information on the cable descriptions in the technical appendix, page i-6

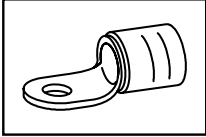
Nominal cross section mm ²	Nominal size to DIN	Part No.	Dimension mm			Weight 100 pcs. ~kg	Packing unit/pcs
			d1	d4	l		
> 0.5 - 1	1	1620L	1.8	3.3	15	0.08	100
> 1.5 - 2.5	2.5	1630L	2.5	4.1	15	0.10	100
> 4 - 6	6	1650L	3.8	5.8	15	0.19	100
> 10	10	1652L	4.7	6.9	21	0.36	100
> 16	16	1653L	5.8	8.4	26	0.62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



Tool application chart

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

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0,5 - 16	K25		2.17		☺
	16 - 95	K95		2.17		☺
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	0,5 - 10	EK50ML		6.6	2.82	☺
		K50		2.23	2.82	☺
		K507		2.22		☺
	10 - 35	K354		2.24	2.85	☺
	10 - 70	K22		2.26	2.89	☺
Hand hydraulic crimping tools	10 - 70	HK6022		2.56	2.89	☺
	16 - 150	HK12030		2.60	2.93	☺
		HK12042		2.62	2.93	☺
		HK120U		2.64	2.93	☺
Battery powered crimping tools	6 - 95	EK30IDML		2.30		☺
	10 - 35	EK354		2.36	2.85	☺
		EK354ML		2.32	2.85	☺
	10 - 70	EK6022		2.40	2.89	☺
		EK60UNV	+UA22	6.12	2.89	☺
		EKM6022		2.38	2.89	☺
		EKM6022IS		4.6	2.89	☺
		EKM60UNV	+UA22	6.11	2.89	☺
	10 - 240	EKM60ID		2.44		☺
		EKM60IDIS		4.8		☺
	16 - 150	EK12032		2.46	2.93	☺
		EK12042		2.48	2.93	☺
		EK120U		2.50	2.93	☺
		EK135FT	+UA15T	2.52	2.93	☺
		EK120UNV	+UA12TKL	6.13	2.93	☺
	95 - 500	EK120ID		2.45		☺
Hydraulic crimping systems	10 - 70	THK22		2.68	2.89	☺
	16 - 150	HK252	+25A13	2.78	2.93	☺
		THK120		2.72	2.93	☺
Hydraulic crimping heads	10 - 70	PK22		2.68	2.89	☺
		PK60UNV	+UA22	6.10	2.89	☺
	10 - 240	PK60ID		2.71		☺
	16 - 150	PK12042		2.72	2.93	☺
		PK120U		2.74	2.93	☺
		PK252	+25A13	2.76	2.93	☺



Tool application chart

Insulated crimp terminals Insulated pin cable lugs

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	10 + 16	K16		2.13		○
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	10 - 16	K354		2.24	2.85	☾
		K50		2.23	2.83	○
		EK50ML		6.6	2.83	○
	10 - 70	K22		2.26	2.89	☾
Hand hydraulic crimping tools	10 - 70	HK6022		2.56	2.89	☾
	10 - 95	HK12030		2.60	2.93	☾
		HK12042		2.62	2.93	☾
		HK120U		2.64	2.93	☾
Battery powered crimping tools	10 - 16	EK354ML		2.32	2.85	☾
		EK354		2.36	2.85	☾
	10 - 70	EKM6022		2.38	2.89	☾
		EK6022		2.40	2.89	☾
		EKM6022IS		4.6	2.89	☾
		EKM60UNV	+UA22	6.11	2.89	☾
		EK60UNV	+UA22	6.12	2.89	☾
	10 - 95	EK12032		2.46	2.93	☾
		EK12042		2.48	2.93	☾
		EK120U		2.50	2.93	☾
		EK135FT	+UA15T	2.52	2.93	☾
		EK120UNV	+UA12TKL	6.13	2.93	☾
Hydraulic crimping systems	10 - 70	THK22		2.68	2.89	☾
	10 - 95	THK120		2.72	2.93	☾
		HK252	+25A13	2.78	2.93	☾
Hydraulic crimping heads	10 - 70	PK22		2.68	2.89	☾
		PK60UNV	+UA22	6.10	2.89	☾
	10 - 95	PK12042		2.72	2.93	☾
		PK120U		2.74	2.93	☾
		PK252	+25A13	2.76	2.93	☾



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 EN 60228 Cl. 2
- ▶ Allows the use of Klauke tubular cable lugs and connectors, standard type, on compacted conductors

Material

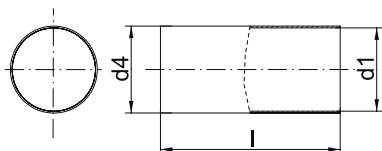
- Copper (HCP)

Surface

- Tin-plated to protect against corrosion

Technical instructions

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



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

Sleeves for sector shaped conductors, 3-core cable, standard type



- ▶ For multi-stranded, sector shaped conductors, e.g. to 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

Material

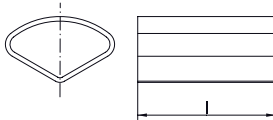
- Copper (HCP)

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-8



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



Electrical connection systems

Sleeves for compacted conductors and sector-shaped conductors - copper

Sleeves for sector shaped conductors, 3-core cable, DIN version



- ▶ For multi-stranded, sector shaped conductors, e.g. to 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

Material

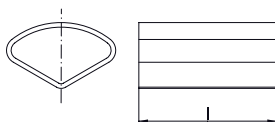
- Copper (HCP)

Surface

- Tin-plated to protect against corrosion

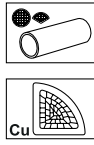
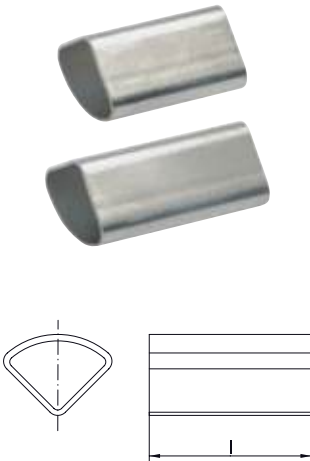
Technical instructions

- For round crimping dies, see „Crimping dies“
- Refer to the installation instructions in the technical appendix on page i-8



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

Sleeves for sector shaped conductors, 4-core cable



- ▶ For multi-stranded, sector shaped conductors, e.g. to 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

Material

- Copper (HCP)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Refer to the installation instructions in the technical appendix on page i-8
- For round crimping dies, see „Crimping dies“

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



RELIABLE - ALUMINIUM COMPRESSION CABLE LUGS AND CONNECTORS TO DIN

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



In brief

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

► Deep drawn

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

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

► Same excellent quality

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

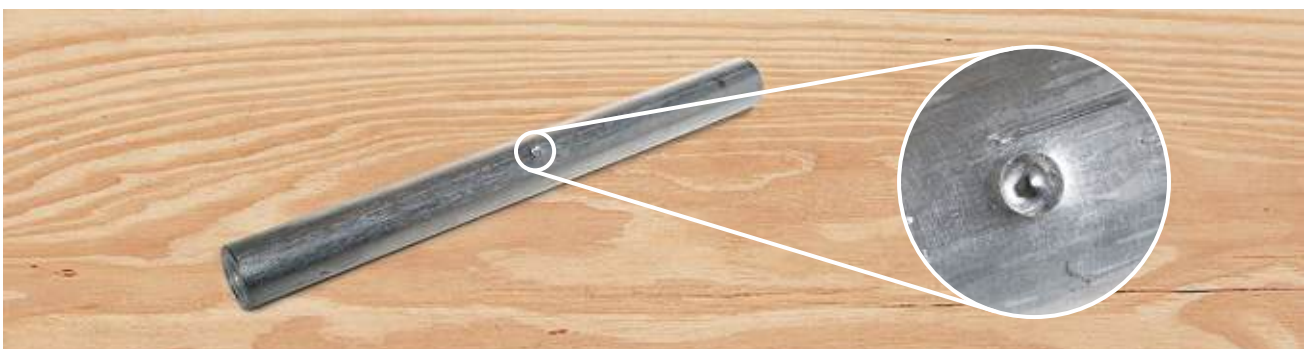
- Constant qualities in many forms
- Connections according to or based on DIN standards
- Simple processing with DIN hexagonal crimping or optionally EKM60ID
- Guaranteed safety through IEC 61238-1 tests



► Flexibility in power line construction

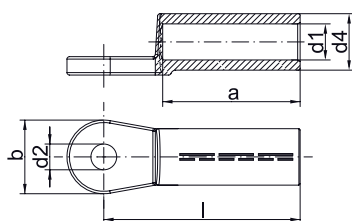
In power line construction too, Klauke products provide the flexible and reliable solution.

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





Compression cable lugs to DIN, Al (surface bright or tinned)



- ▶ For non-tension connections of aluminium conductors to 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

Material

- E-aluminium

Surface

- Bright
- Tinned (20 µm)

Technical instructions

- Tool: see page 1.90
- You will find further information on the cable descriptions in the technical appendix, page i-6

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. bright	Part No. tinned	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	263R8V	16	25	*	12	30	20	5,8	8,4	12	50	4	2	1,20	4	
M 10	263R10	263R10V	16	25	*	12	30	20	5,8	10,5	12	50	4	2	1,20	4	
M 8	264R8	264R8V	25	35		12	30	25	6,8	8,4	12	50	4	2	1,30	4	
M 10	264R10	264R10V	25	35		12	30	25	6,8	10,5	12	50	4	2	1,24	4	
M 12	264R12	264R12V	25	35		12	30	25	6,8	13,0	12	50	4	2	1,22	4	
M 8	265R8	265R8V	35	50		14	42	25	8,0	8,4	14	62	5	2	2,50	4	
M 10	265R10	265R10V	35	50		14	42	25	8,0	10,5	14	62	5	2	1,98	4	
M 12	265R12	265R12V	35	50		14	42	25	8,0	13,0	14	62	5	2	2,50	4	
M 8	266R8	266R8V	50	70		16	42	25	9,8	8,4	16	62	5	2	2,75	4	
M 10	266R10	266R10V	50	70		16	42	25	9,8	10,5	16	62	5	2	2,70	4	
M 12	266R12	266R12V	50	70		16	42	25	9,8	13,0	16	62	5	2	2,65	4	
M 8	267R8	267R8V	70	95		18	52	25	11,2	8,4	18,5	72	6	3	3,45	4	
M 10	267R10	267R10V	70	95		18	52	25	11,2	10,5	18,5	72	6	3	3,80	4	
M 12	267R12	267R12V	70	95		18	52	25	11,2	13,0	18,5	72	6	3	3,35	4	
M 10	268R10	268R10V	95	120		22	56	25	13,2	10,5	22	75	6	3	6,90	4	
M 12	268R12	268R12V	95	120		22	56	25	13,2	13,0	22	75	6	3	4,92	4	
M 16	268R16	268R16V	95	120	*	22	56	25	13,2	17,0	22	75	6	3	6,00	4	
M 10	269R10	269R10V	120	150		22	56	30	14,7	10,5	23	80	6	3	5,95	4	
M 12	269R12	269R12V	120	150		22	56	30	14,7	13,0	23	80	6	3	5,84	4	
M 16	269R16	269R16V	120	150		22	56	30	14,7	17,0	23	80	6	3	6,60	4	

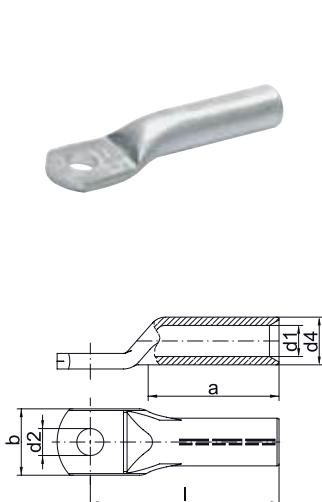
See next page

Compression cable lugs to DIN, Al (surface bright or tinned)

Size of bolt dia.	Part No. bright	Part No. tinned	Nominal cross section mm ²		Hint	Code	Dimension mm						Number of crimps		Weight 100 pcs. ~kg	Packing unit/pcs
			rm/sm	re/se			a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)		
M 10	270R10	270R10V	150	185		25	60	30	16,3	10,5	25	90	6	3	8,50	4
M 12	270R12	270R12V	150	185		25	60	30	16,3	13,0	25	90	6	3	7,73	4
M 16	270R16	270R16V	150	185		25	60	30	16,3	17,0	25	90	6	3	7,60	4
M 10	271R10	271R10V	185	240		28	60	30	18,3	10,5	28,5	91	6	3	11,00	4
M 12	271R12	271R12V	185	240		28	60	30	18,3	10,5	28,5	91	6	3	9,88	4
M 16	271R16	271R16V	185	240		28	60	30	18,3	17,0	28,5	91	6	3	10,10	4
M 20	271R20	271R20V	185	240	*	28	60	30	18,3	21,0	28,5	91	6	3	10,00	4
M 10	272R10	272R10V	240	300	*	32	70	38	21,0	10,5	32	103	8	3	15,50	4
M 12	272R12	272R12V	240	300		32	70	38	21,0	13,0	32	103	8	3	13,80	4
M 16	272R16	272R16V	240	300		32	70	38	21,0	17,0	32	103	8	3	13,48	4
M 20	272R20	272R20V	240	300		32	70	38	21,0	21,0	32	103	8	3	15,00	4
M 12	273R12	273R12V	300	--		34	70	38	23,3	13,0	34	103	8	3	17,60	1
M 16	273R16	273R16V	300	--		34	70	38	23,3	17,0	34	103	8	3	17,28	1
M 20	273R20	273R20V	300	--		34	70	38	23,3	21,0	34	103	8	3	17,40	1
M 12	274R12	274R12V	400	--		38	73	38	26,0	13,0	38,5	116	--	4	38,00	1
M 16	274R16	274R16V	400	--		38	73	38	26,0	17,0	38,5	116	--	4	37,40	1
M 20	274R20	274R20V	400	--		38	73	38	26,0	21,0	38,5	116	--	4	40,20	1
M 12	275R12	275R12V	500	--		44	79	44	29,0	13,0	44	122	--	4	43,70	1
M 16	275R16	275R16V	500	--		44	79	44	29,0	17,0	44	122	--	4	43,30	1
M 20	275R20	275R20V	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 EN 60228 and aluminium cables to DIN EN 50182
- ▶ For pre-rounded sector shaped conductors
- ▶ Tube dimensions according 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

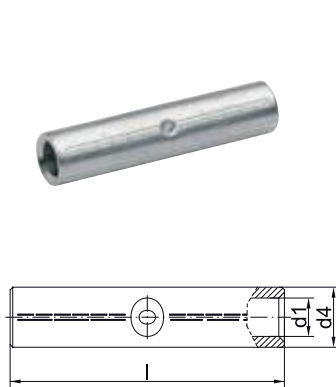
- Tool: see page 1.90
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

Size of bolt dia.	Part No.	Nominal cross section mm ²		Code	Dimension mm						Number of crimps		Weight 100 pcs. ~kg	Packing unit/pcs
		rm/sm	re/se		a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)		
M 6	202R6	10	16	10	32	16	5.0	6.5	10	52	4	2	0.86	25
M 8	202R8	10	16	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 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 1.90
- You will find further information on the cable descriptions in the technical appendix, page i-6

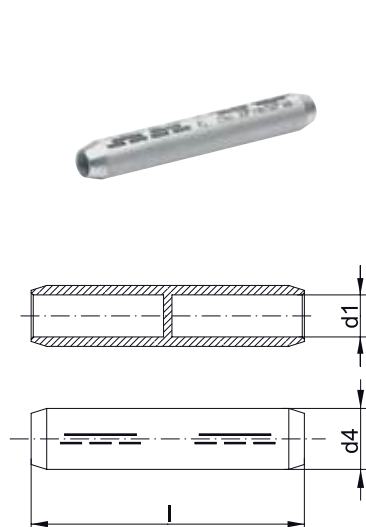
Additional information

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

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



Compression joints, Al



- ▶ For non-tension connections of medium-voltage aluminium cable 10-30 kV
- ▶ For non-tension connections of aluminium conductors to 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

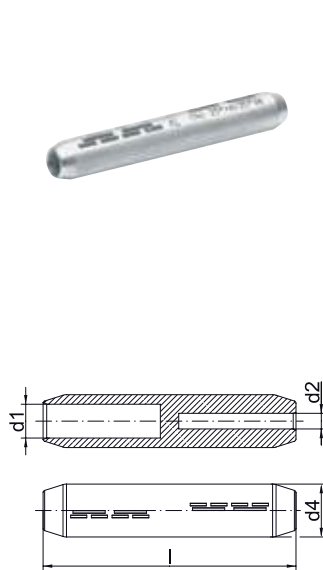
- Tool: see page 1.90
- You will find further information on the cable descriptions in the technical appendix, page i-6

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 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 1.90
- You will find further information on the cable descriptions in the technical appendix, page i-6

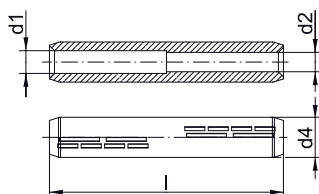
Additional information

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

Part No.	Nominal cross section mm ²				Code	Dimension mm				Number of crimps		Weight 100 pcs. ~kg	Packing unit/pcs
	re/se from	rm/sm from	re/se to	rm/sm to		d1	d2	d4	l	Al (7 mm)	Al (wide)		
425R25	50	35	35	25	14	8.0	6.8	14	95	4/4	2/2	2.8	5
426R35	70	50	50	35	16	9.8	8.0	16	95	4/4	2/2	3.45	5
428R50	120	95	70	50	22	13.2	9.8	22	105	4/4	2/2	7.60	5
428R70	120	95	95	70	22	13.2	11.2	22	105	4/4	2/2	7.35	5
429R70	150	120	95	70	22	14.7	11.2	23	110	4/4	2/2	7.10	5
429R95	150	120	120	95	22	14.7	13.2	23	110	4/4	2/2	6.55	5
430R70	185	150	95	70	25	16.3	11.2	25	110	4/4	2/2	9.80	5
430R95	185	150	120	95	25	16.3	13.2	25	110	4/4	2/2	9.50	5
430R120	185	150	150	120	25	16.3	14.7	25	110	4/4	2/2	8.65	5
431R70	240	185	95	70	28	18.3	11.2	28.5	130	--	2/2	15.05	5
431R95	240	185	120	95	28	18.3	13.2	28.5	130	--	2/2	14.40	5
431R120	240	185	150	120	28	18.3	14.7	28.5	130	5/5	2/2	13.70	5
431R150	240	185	185	150	28	18.3	16.3	28.5	130	5/5	2/2	14.17	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 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 1.90
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

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

Compression joint to DIN, Al, full tension



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

Characteristics

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

Material

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

Surface

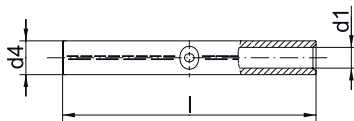
- Bright

Technical instructions

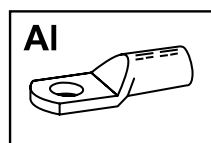
- Tool: see page 1.90
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

- * = not standardised



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



Tool application chart

Compression cable lugs and connectors made from E-Al

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

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	10 rm/sm - 95 re/se	K354		2.24	2.86	
	10 rm/sm - 300 re/se	K22		2.26	2.89	
Hand hydraulic crimping tools	10 rm/sm - 300 re/se	HK12030		2.60	2.94	
		HK12042		2.62	2.94	
		HK120U		2.64	2.94	
		HK6022		2.56	2.89	
Battery powered crimping tools	10 rm/sm - 95 re/se	EK354ML		2.32	2.86	
		EK354		2.36	2.86	
	10 rm/sm - 300 re/se	EK12032		2.46	2.94	
		EK12042		2.48	2.94	
		EK120U		2.50	2.94	
		EK120UNV	+ UA12TKL	6.13	2.94	
		EK135FT	+UA15T	2.52	2.94	
		EK6022		2.40	2.89	
		EK60UNV	+UA22	6.12	2.89	
		EKM6022		2.38	2.89	
		EKM6022IS		4.6	2.89	
		EKM60UNV	+UA22	6.11	2.89	
	50 - 240	EKM60ID*		2.44		
		EKM60IDIS		4.8		
	400 - 500	EK135FT	+UA15T	2.52	2.95	
Hydraulic crimping systems	10 rm/sm - 300 re/se	THK120		2.72	2.94	
		THK22		2.68	2.89	
	10 rm/sm - 500	HK252	+25A13	2.78	2.94 + 2.97	
Hydraulic crimping heads	10 - 240	PK60ID*		2.71		
	10 rm/sm - 300 re/se	PK12042		2.72	2.94	
		PK120U		2.74	2.94	
		PK22		2.68	2.89	
		PK60UNV	+UA22	6.10	2.89	
	400 - 500	PK252	+25A13	2.76	2.94 + 2.97	

* Not suitable for full-tension connections



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 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.

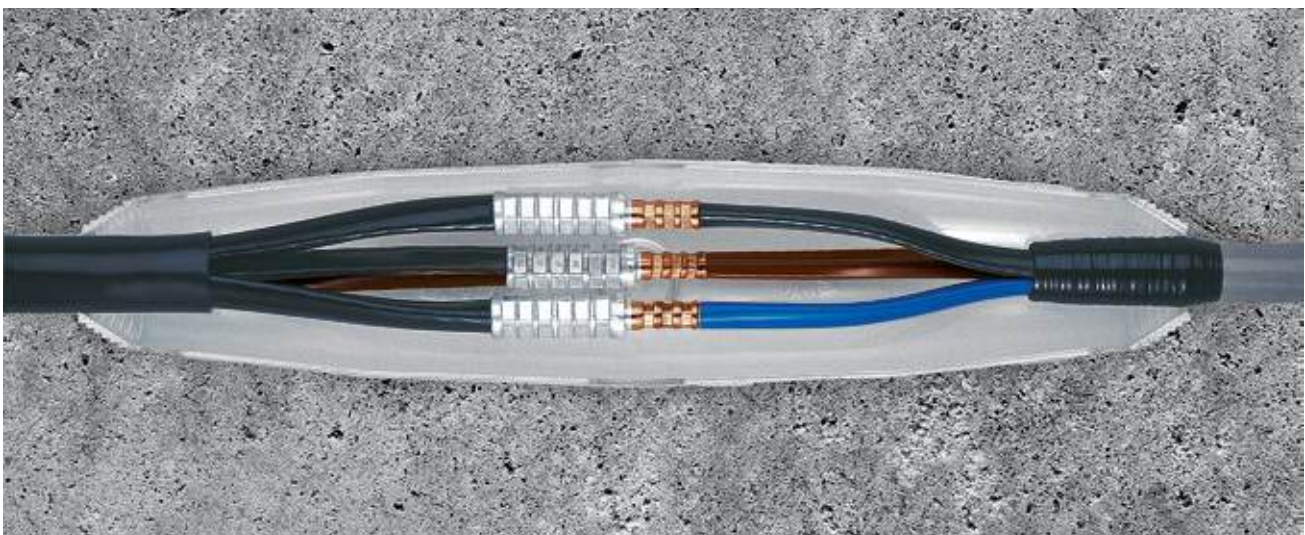
- Processing as usual with standard aluminium cable lugs
- Different versions available, for instance, as a cable lug with a copper eye or Cupal washers or as a rotational friction welded cable lug



► 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 EN 60228 and aluminium cables to DIN EN 50182
- ▶ Tube dimension to DIN 46329
- ▶ For pre-tounded sector shaped conductors
- ▶ With code number for clear tool assignment
- ▶ Filled with contact grease for optimum crimp results
- ▶ Friction welding connection to prevent galvanic corrosion

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 1.101
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

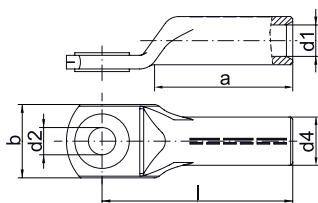
Size of bolt dia.	Part No.	Nominal cross section mm ²			Dimension mm						Number of crimps		Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
		rm/sm	re/se	Code	a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)			
M 8	363R8	16	25	12	34	24	6.0	8.5	12	68	4	2	4.4	5.9	10
M 10	363R10	16	25	12	34	24	6.0	10.5	12	68	4	2	4.2	5.7	10
M 8	364R8	25	35	12	34	24	6.8	8.5	12	68	4	2	4.4	5.8	10
M 10	364R10	25	35	12	34	24	6.8	10.5	12	68	4	2	4.2	5.6	10
M 12	364R12	25	35	12	34	24	6.8	13.0	12	68	4	2	3.9	5.3	10
M 8	365R8	35	50	14	43	24	8.0	8.5	14	77	5	2	4.4	6.3	10
M 10	365R10	35	50	14	43	24	8.0	10.5	14	77	5	2	4.2	6.1	10
M 12	365R12	35	50	14	43	24	8.0	13.0	14	77	5	2	3.8	5.8	10
M 8	366R8	50	70	16	43	25	9.8	8.5	16	77	5	2	4.4	6.4	10
M 10	366R10	50	70	16	43	25	9.8	10.5	16	77	5	2	4.2	6.2	10
M 12	366R12	50	70	16	43	25	9.8	13.0	16	77	5	2	3.9	5.9	10
M 8	367R8	70	95	18	52	25	11.2	8.5	18.5	84.5	6	3	3.9	6.9	10
M 10	367R10	70	95	18	50	25	11.2	10.5	18.5	85	6	3	4.2	7.4	10
M 12	367R12	70	95	18	50	25	11.2	13.0	18.5	85	6	3	3.9	7.1	10
M 8	368R8	95	120	22	56	30	13.2	8.5	22	90.5	6	3	4.1	8.0	5
M 10	368R10	95	120	22	50.5	30	13.2	10.5	22	90.5	6	3	7.4	11.4	10
M 12	368R12	95	120	22	50.5	30	13.2	13.0	22	90.5	6	3	6.8	10.8	10
M 16	368R16	95	120	22	50.5	30	13.2	17.0	22	90.5	6	3	6.4	10.4	10
M 8	369R8	120	150	22	50.5	30	14.7	8.5	23	95	6	3	3.9	8.3	5
M 10	369R10	120	150	22	50.5	30	14.7	10.5	23	92	6	3	6.1	11.5	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 8	370R8	150	185	25	62	30	16.3	8.5	25	104	6	3	7	13.3	5
M 10	370R10	150	185	25	62	30	16.3	10.5	25	104	6	3	6.8	13.6	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

see next page

Compression cable lugs, Al/Cu

Size of bolt dia.	Part No.	Nominal cross section mm ²		Code	Dimension mm						Number of crimps		Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
		rm/sm	re/se		a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)			
M 8	371R8	185	240	28	62	30	18.3	8.5	28.5	105	6	3	11.3	19.4	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
M 20	371R20	185	240	28	62	35	18.3	21.0	28.5	105.5	6	3	10.1	18.4	5
M 10	372R10	240	300	32	72	35	21.0	10.5	32	118.5	8	3	12.1	22.5	5
M 12	372R12	240	300	32	72	35	21.0	13.0	32	118.5	8	3	11.8	22.2	5
M 16	372R16	240	300	32	72	35	21.0	17.0	32	118.5	8	3	11.0	21.4	5
M 20	372R20	240	300	32	72	35	21.0	21.0	32	118.5	8	3	10.1	20.5	5
M 10	373R10	300	--	34	72	36	23.3	10.5	34	124	8	3	14.3	27.2	2
M 12	373R12	300	--	34	72	36	23.3	13.0	34	124	8	3	17.7	33.7	2
M 16	373R16	300	--	34	72	36	23.3	17.0	34	124	8	3	16.9	32.9	2
M 20	373R20	300	--	34	72	40	23.3	21.0	34	124	8	3	16.0	32.0	1
M 12	374R12	400	--	38	100	40	26.0	13.0	38.5	150.5	--	4	25.6	37.4	1
M 16	374R16	400	--	38	100	40	--	17	38.5	150.5	--	4	22.1	37.4	1

Compression cable lugs, Al/Cu with Cu eye



- ▶ For non-tension connections of aluminium conductors to 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 1.101
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

Size of bolt dia.	Part No.	Nominal cross section mm ²		Code	Dimension mm						Number of crimps		Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
		rm/sm	re/se		a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)			
M 6	302R6	10	16	10	32	18	5.0	6.5	10	52	4	2	0.260	1.20	10
M 8	302R8	10	16	10	32	22	5.0	8.5	10	52	4	2	0.580	1.50	10
	303R8	16	25	12	32	22	5.8	8.5	12	52	4	2	0.600	1.95	10
M 10	303R10	16	25	12	32	25	5.8	10.5	12	52	4	2	0.600	2.00	10
M 8	304R8	25	35	12	38	22	7.0	8.5	12	60	4	2	0.625	2.00	10

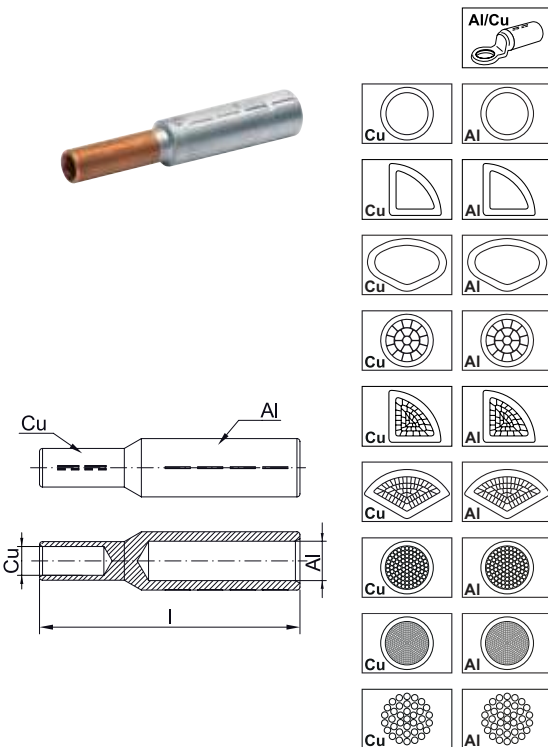
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Compression cable lugs, Al/Cu with Cu eye

Size of bolt dia.	Part No.	Nominal cross section mm ²		Code	Dimension mm						Number of crimps		Weight 100 St. ~kg Cu	Weight 100 St. ~kg total	Packing unit/pcs
		rm/sm	re/se		a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)			
M 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
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 EN 60228 and aluminium cables to DIN EN 50182
- ▶ For Cu round conductors, e.g. to 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 1.58
- Tool: see page 1.101
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

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

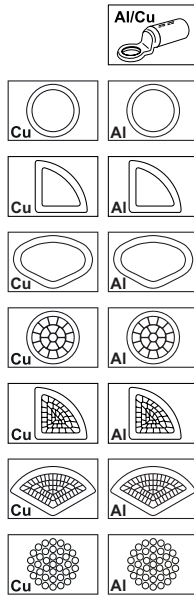
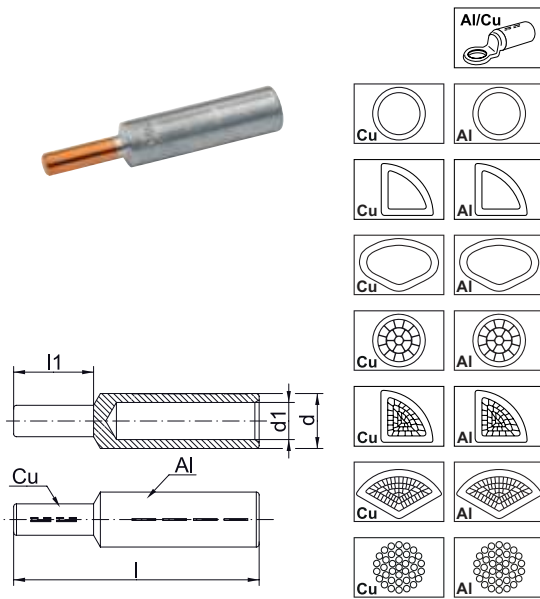
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Compression joints, Al/Cu

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

Compression joints with Cu bolts, Al



- ▶ For non-tension connections of aluminium conductors to 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 1.101
- You will find further information on the cable descriptions in the technical appendix, page i-6

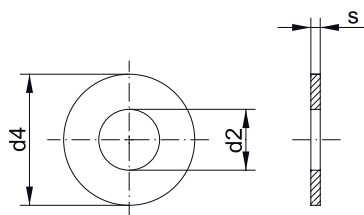
Additional information

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

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



Cupal washers



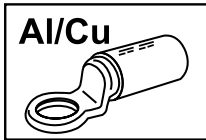
Characteristics

- Washer to prevent galvanic corrosion when connecting aluminium and copper
- 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 rm/sm - 95 re/se	K354		2.24	2.86	⬡
	10 rm/sm - 300 re/se	K22		2.26	2.89	⬡
Hand hydraulic crimping tools	10 rm/sm - 300 re/se	HK12030		2.60	2.94	⬡
		HK12042		2.62	2.94	⬡
		HK120U		2.64	2.94	⬡
		HK6022		2.56	2.89	⬡
Battery powered crimping tools	10 rm/sm - 95 re/se	EK354ML		2.32	2.86	⬡
		EK354		2.36	2.86	⬡
	10 rm/sm - 300 re/se	EK12032		2.46	2.94	⬡
		EK12042		2.48	2.94	⬡
		EK120U		2.50	2.94	⬡
		EK120UNV	+ UA12TKL	6.13	2.94	⬡
		EK135FT	+UA15T	2.52	2.94	⬡
		EK6022		2.40	2.89	⬡
		EK60UNV	+UA22	6.12	2.89	⬡
		EKM6022		2.38	2.89	⬡
		EKM6022IS		4.6	2.89	⬡
		EKM60UNV	+UA22	6.11	2.89	⬡
	50 - 240	EKM60ID*		2.44		⬡
		EKM60IDIS		4.8		⬡
	400 - 500	EK135FT	+UA15T	2.52	2.95	⬡
Hydraulic crimping systems	10 rm/sm - 300 re/se	THK120		2.72	2.94	⬡
		THK22		2.68	2.89	⬡
	10 rm/sm - 500	HK252	+25A13	2.78	2.94 + 2.97	⬡
Hydraulic crimping heads	10 - 240	PK60ID*		2.71		⬡
	10 rm/sm - 300 re/se	PK12042		2.72	2.94	⬡
		PK120U		2.74	2.94	⬡
		PK22		2.68	2.89	⬡
		PK60UNV	+UA22	6.10	2.89	⬡
	400 - 500	PK252	+25A13	2.76	2.94 + 2.97	⬡



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.



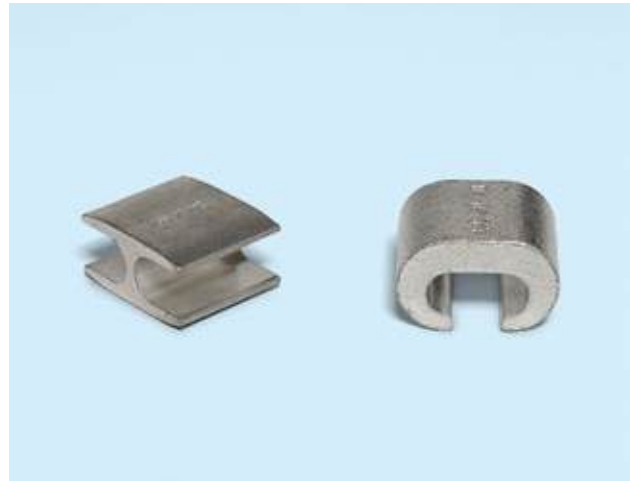
In brief

- ▶ 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 EN 60228 Cl. 1 and 2, for example in lightning protection areas

Characteristics

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

Material

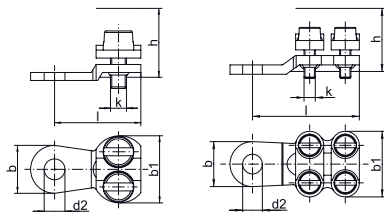
- Copper (ETP)
- Screws: DIN 84 / DIN 933 bronze, F 60

Surface

- Tin-plated to protect against corrosion

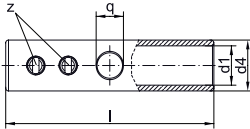
Technical instructions

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



Nominal cross section mm ²	Part No.	Dimension mm						Number of screws	Torque Nm	Weight/pcs. ~kg	Packing unit/pcs
		b	b1	d2	k	h	l				
6 - 10	572R6	15.0	18.0	6.5	M4	10	23.0	2	4	1.30	50
10 - 16	573R6	15.0	20.5	6.5	M5	14	27.0	2	6	1.30	50
	573R8	15.0	20.5	8.5	M5	14	27.0	2	6	1.30	50
16 - 25	574R8	15.0	25.0	8.5	M5	16	30.0	2	6	2.75	50
	584R8	18.5	22.5	8.5	M5	16	36.0	4	6	3.70	25
	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
	589R10	30.0	42.0	10.5	M8	32	61.0	4	20	20.15	10
95 - 150	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	590R12	34.0	48.5	13.0	M8	32	68.5	4	20	24.35	5
185 - 300	592R12	32.0	50.0	13.0	M8	37	68.5	4	20	27.95	5

Tubular soldering sleeves, CuZn



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

Characteristics

- Simple processing due to fixed screws and solder hole

Material

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

Surface

- Tin-plated to protect against corrosion

Technical instructions

- A connection needs to be soldered

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



Parallel groove clamps, Cu, 2 screws



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

Characteristics

- Also for outdoor assembly
- Version with 2 screws

Material

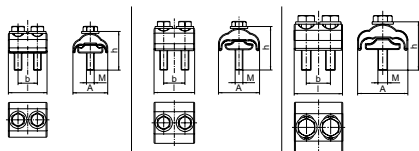
- Copper (ETP)
- Screws: V2A

Surface

- Bright

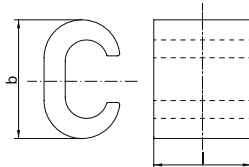
Technical instructions

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



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

Branch clamps in C-type, Cu



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

Material

- Copper (ETP)

Surface

- Tin-plated to protect against corrosion

Technical instructions

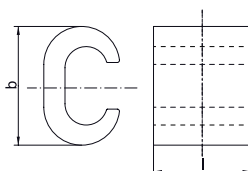
- Optimum conducting characteristics in combination with compound
- Tool: see page 1.117
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

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

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



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

Material

- Copper (ETP)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.117
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

Part No.	Cross section main conductor mm ² rm/re		Dimension mm		Weight/pcs. ~kg	Packing unit/pcs
	Main conductor	Tab conductor	b	l		
MCK1010	6 - 10/10	4 - 6/4 - 10	11.8	12	0.460	25
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

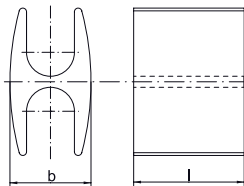
See next page



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

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

Branch clamps in H-type, Cu



- ▶ For non-tension copper cables, e.g. to DIN 48201-1
- ▶ Ideal for clamping identical conductor cross-sect. e.g. to 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 1.118
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

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

Compound for branch clamps



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

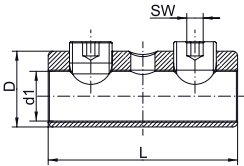
Characteristics

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

Part No.

KF125

Screw connectors for shielded copper wires



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

Characteristics

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

Material

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

Surface

- Tin-plated to protect against corrosion

Technical instructions

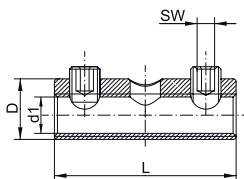
- Refer to the installation instructions in the technical appendix on page i-8

Additional information

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

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

Screw connectors for street lighting



- For connecting different conductor types and materials, e.g. to EN 60228 Class 1 and 2 (tinned version)
- 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

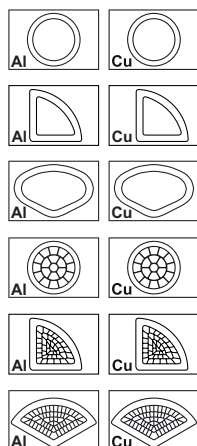
Additional information

- 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 EN 60228 Cl. 1 and 2 (tinned version)
- ▶ 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

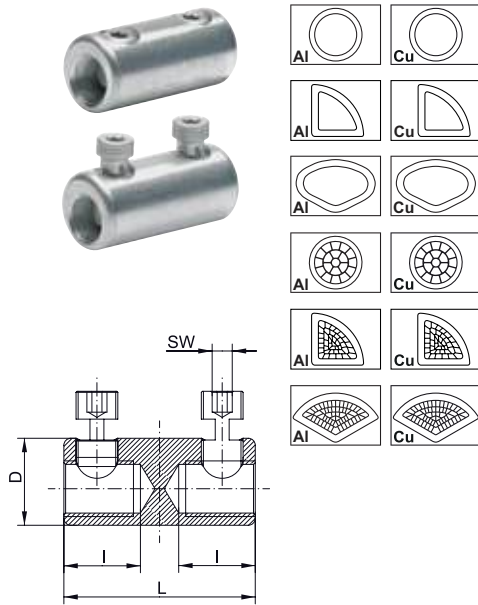
- Refer to the installation instructions in the technical appendix on page i-8

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 EN 60228 Cl. 1 and 2 (tinned version)
- ▶ 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

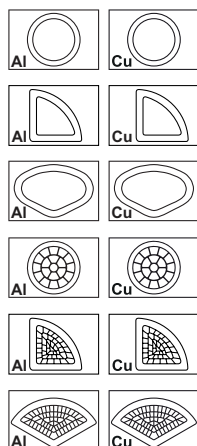
Additional information

- 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	I	L	AF			
With threaded pin, bright finished												
SV315	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 35 Al 10 - 35	Cu 2.5 - 35 Al 10 - 35		16	17.5	40	4	9	1.7	4
SV309	16 - 95	16 - 95	50 - 95	35-95 (r), 35-70		25	22	55	5	20	6.6	4
SV320	25 - 150	25 - 150	50 - 150 (90°), 50 - 150 (120°)	35 - 150		28	31	70	6	25	11.3	4
SV310	35 - 50	35 - 185	50 - 185 (90°)	35 - 185 (r)		32	32	80	6	25	16	4
With threaded pin, tin-plated												
SV315V	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 50 Al 10 - 50	Cu 2.5 - 35 Al 10 - 35	Cu 2.5 - 35 Al 10 - 35		16	17.5	40	4	9	1.7	4
SV309V	16 - 95	16 - 95	50 - 95	35-95 (r), 35-70		25	22	55	5	20	6.6	4
SV320V	25 - 150	25 - 150	50 - 150 (90°), 50 - 150 (120°)	--		28	31	70	6	25	11.3	4
SV310V	35 - 50	35 - 185	50 - 185 (90°)	35 - 185 (r)		32	32.5	80	6	25	16	4
With shear head, bright finished												
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												
SV311AKNL	6 - 35	6 - 25	--	--		14	17.5	40	4	8	1.5	4
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 EN 60228 Cl. 1 and 2 (tinned version)
- ▶ 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

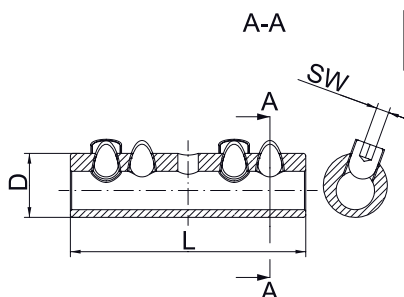
- Either bright or tin-plated

Technical instructions

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

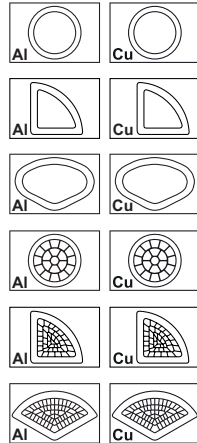
Additional information

- 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 EN 60228 Cl. 1 and 2 (tinned version)
- 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

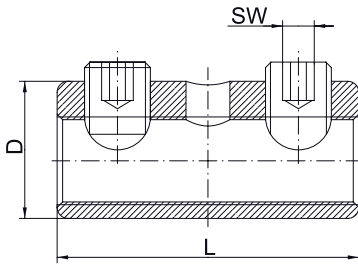
- Either bright or tin-plated

Technical instructions

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

Additional information

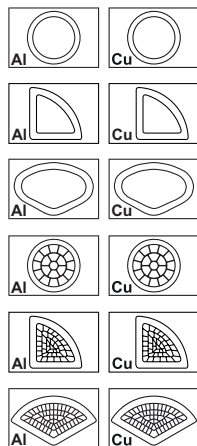
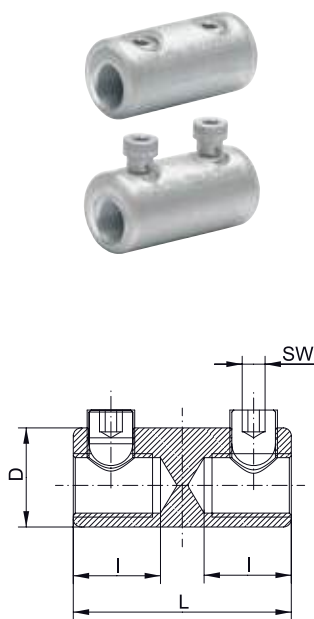
- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded



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 EN 60228 Cl. 1 and 2 (tinned version)
- 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

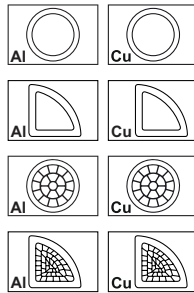
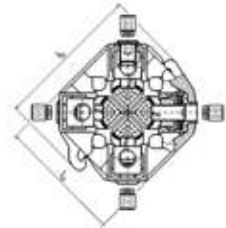
- Refer to the installation instructions in the technical appendix on page i-8

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

	Nominal cross section mm²				Dimension mm				Torque Nm	Weight/ pcs. ~kg	Packing unit/pcs
Part No.	re	rm	se	sm	D	I	L	AF			
With threaded pin, bright											
SV430	16-50	16-95	50 - 70 (120°), 50 - 95 (90°)	35 - 70, 35 - 95 (r)	28.2	23.6	58.2	5	20	6.6	4
With shear head, bright											
SV430AK	16 - 50	16 - 95	50 - 70 (120°), 50 - 95 (90°)	35 - 70, 35 - 95 (r)	28.2	23.6	58.2	5	20	6.6	4
SV440AK	35 - 50	35 - 185	50 - 150 (120°), 50 - 185 (90°)	35 - 150, 35 - 185 (r)	36	34.5	84	6	25	16.0	4

Compact tap connectors with shear heads, four conductor cables



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

Characteristics

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

Technical instructions

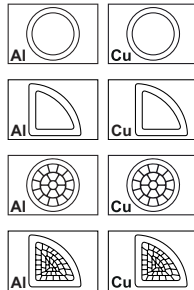
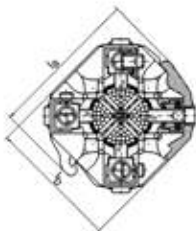
- A mounting instruction is included with every clamp

Additional information

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

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

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



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

Characteristics

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

Technical instructions

- A mounting instruction is included with every clamp

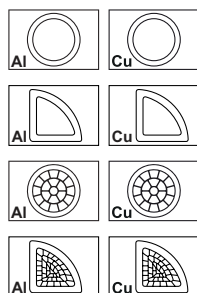
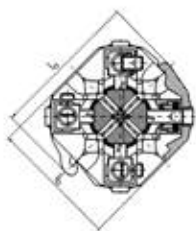
Additional information

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

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



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



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

Characteristics

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

Technical instructions

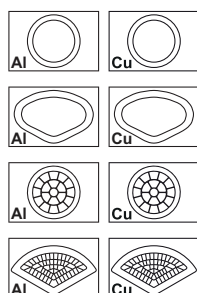
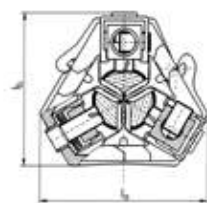
- A mounting instruction is included with every clamp

Additional information

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

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

Compact tap connectors, three conductor cables



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

Characteristics

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

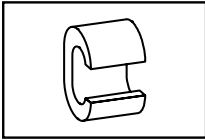
Technical instructions

- A mounting instruction is included with every clamp

Additional information

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

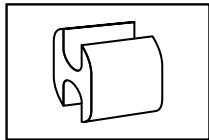
Part No.	Main conductor				Tap conductor		Dimension mm					Thread DIN 13	Weight/ pcs. ~kg	Packing unit/pcs
	se	sm	rm	re	se	sm	la	lb	Width	Bolts Circle dia.	AF			
SKR1503	70 - 150	70 - 150	70 - 150	70 - 150	6 - 70	6 - 95	84	76	45	90	5	M10x1/ M10	0.38	1



Tool application chart

C-Clamps

Tool type	Crimping range corresponds to nominal cross-section 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 - 35	K354		2.24	2.86	○
	10 - 70	K22		2.26	2.90	○
Hand hydraulic crimping tools	10 - 70	HK12030		2.60	2.94	○
		HK12042		2.62	2.94	○
		HK120U		2.64	2.94	○
		HK6022		2.56	2.90	○
Battery powered crimping tools	10 - 35	EK354ML		2.32	2.86	○
		EK354		2.36	2.86	○
	10 - 70	EK12032		2.46	2.94	○
		EK12042		2.48	2.94	○
		EK120U		2.50	2.94	○
		EK135FT	+UA15T	2.52	2.94	○
		EK120UNV	+ UA12TKL	6.13	2.94	○
		EKM6022		2.38	2.90	○
		EK6022		2.40	2.90	○
		EKM6022IS		4.6	2.90	○
		EKM60UNV	+UA22	6.11	2.90	○
		EK60UNV	+UA22	6.12	2.90	○
		THK120		2.72	2.94	○
		THK22		2.68	2.90	○
	10 - 185	HK252	+25A13	2.78	2.94 + 2.97	○
Hydraulic crimping systems	10 - 70	PK12042		2.72	2.94	○
		PK120U		2.74	2.94	○
		PK22		2.68	2.90	○
	10 - 185	PK60UNV	+UA22	6.10	2.90	○
		PK252	+25A13	2.76	2.94 + 2.97	○



Tool application chart

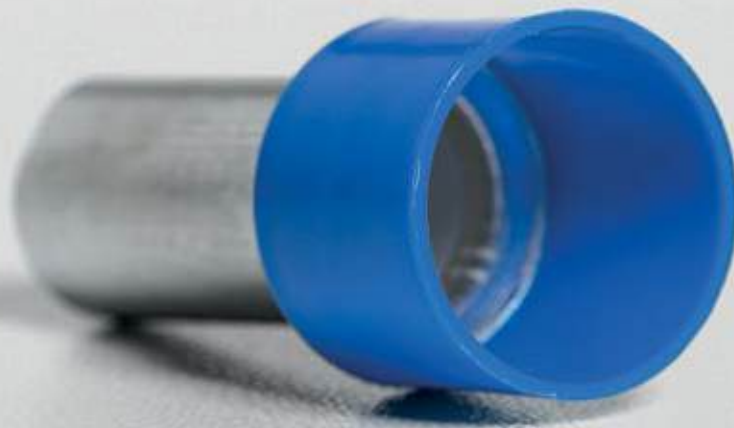
H-Clamps

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		2.26	2.90	○
Hand hydraulic crimping tools	70	HK6022		2.56	2.90	○
	70 - 120	HK12030		2.60	2.94	○
		HK12042		2.62	2.94	○
		HK120U		2.64	2.94	○
Battery powered crimping tools	70	EKM6022		2.38	2.90	○
		EK6022		2.40	2.90	○
		EKM6022IS		4.6	2.90	○
		EKM60UNV	+UA22	6.11	2.90	○
		EK60UNV	+UA22	6.12	2.90	○
	70 - 120	EK12032		2.46	2.94	○
		EK12042		2.48	2.94	○
		EK120U		2.50	2.94	○
		EK135FT	+UA15T	2.52	2.94	○
		EK120UNV	+ UA12TKL	6.13	2.94	○
Hydraulic crimping systems	70	THK22		2.68	2.90	○
	70 - 120	THK120		2.72	2.94	○
		HK252	+25A13	2.78	2.94	○
Hydraulic crimping heads	70	PK22		2.68	2.90	○
		PK60UNV	+UA22	6.10	2.90	○
	70 - 120	PK12042		2.72	2.94	○
		PK120U		2.74	2.94	○
		PK252	+25A13	2.76	2.94	○



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

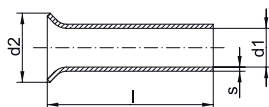
The special Easy-Entry insulation makes it easier to insert the conductor into the sleeves. In addition, the insulation is highly-resistant, to temperatures of up to 105 °C for example.

- 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 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 1.134
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

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

Cable end-sleeves to DIN, Cu

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

See next page



Cable end-sleeves to DIN, Cu

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

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



- ▶ For fine and superfine stranded conductors, e.g. to 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

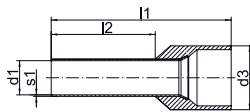
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.134
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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



Nominal cross section mm ²	Part No.	Colour	Hint	Dimension mm					Weight/ 1000 pcs. ~ kg	Packing unit/ pcs
				d1	d3	l1	l2	s1		
0.5	4696			1.0	3.1	12	6	0.15	0.070	1000
	4698			1.0	3.1	14	8	0.15	0.070	1000
	GR4698		***	1.0	3.1	14	8	0.15	0.070	500
	46910			1.0	3.1	16	10	0.15	0.085	1000
0.75	4706			1.2	3.3	12	6	0.15	0.080	1000
	4708			1.2	3.3	14	8	0.15	0.080	1000
	GR4708		***	1.2	3.3	14	8	0.15	0.080	500
	47010			1.2	3.3	16	10	0.15	0.100	1000
	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 mm ²	Part No.	Colour	Hint	Dimension mm					Weight/ 1000 pcs. ~ kg	Packing unit/ pcs
				d1	d3	l1	l2	s1		
16	47712	■		5.8	9.6	24	12	0.20	0.650	100
	47718	■		5.8	9.6	28	18	0.20	0.800	100
25	47816	■		7.3	12.0	30	16	0.20	1.600	50
	47818	■		7.3	12.0	30	18	0.20	1.700	50
	47822	■		7.3	12.0	36	22	0.20	2.000	50
35	47916	■		8.3	13.5	30	16	0.20	1.900	50
	47918	■		8.3	13.5	30	18	0.20	2.100	50
	47925	■		8.3	13.5	39	25	0.20	2.500	50
50	48020	■		10.3	16.0	36	20	0.30	3.300	50
	48025	■		10.3	16.0	40	25	0.30	3.600	50
70	48121	■	*	13.5	17.2	37	21	0.40	4.620	25
95	48225	■	*	14.5	19.2	44	25	0.40	6.000	25
120	48327	■	*	16.7	21.4	48	27	0.45	7.850	25
150	48432	■	*	19.5	25.0	58	32	0.50	12.330	25

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



- For fine and superfine stranded conductors, e.g. to 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

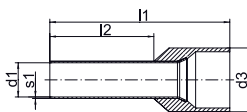
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.134
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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



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

See next page

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

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

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



- ▶ For fine and superfine stranded conductors, e.g. to 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

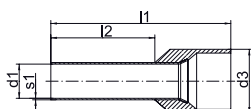
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.134
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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



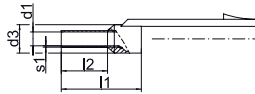
Nominal cross section mm ²	Part No.	Colour	Hint	Dimension mm					Weight/ 1000 pcs. ~ kg	Packing unit/ pcs
				d1	d3	l1	l2	s1		
0.14	1666		*	0.7	2.5	10.0	6	0.15	0.035	1000
	1668		*	0.7	2.5	12.0	8	0.15	0.040	1000
0.25	1676		*	0.8	2.5	10.0	6	0.15	0.045	1000
	1678		*	0.8	2.5	12.0	8	0.15	0.050	1000
0.34	1686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

See next page

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

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

Insulated cable end-sleeves with lug



- ▶ For fine and superfine stranded conductors, e.g. to 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

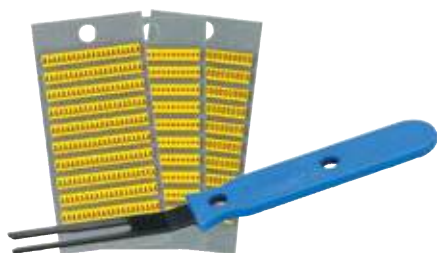
Technical instructions

- Tool: see page 1.134
- You will find further information on the cable descriptions in the technical appendix, page i-6

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



Designation ring and insert fork



► For identifying the insulated cable end-sleeves with lugs

Characteristics

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

Additional information

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

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

Insulated cable end-sleeves for short circuit resistant conductors



- For fine and superfine stranded conductors, e.g. to 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

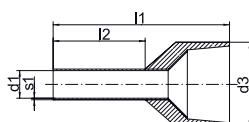
- Copper (EN13600)
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.134
- You will find further information on the cable descriptions in the technical appendix, page i-6



Nominal cross section mm²	Part No.	Colour	Dimension mm					Weight/ 1000 pcs. ~ kg	Packing unit/pcs
			d1	d3	l1	l2	s1		
1.5	4328	Black	1.7	8.1	17.5	8	0.15	0.22	100
	43210	Black	1.7	8.1	19.5	10	0.15	0.27	100
2.5	4338	Blue	2.2	8.6	17.5	8	0.15	0.24	100
	43312	Blue	2.2	8.6	21.5	12	0.15	0.36	100
4	43410	Grey	2.9	10.5	19.5	10	0.20	0.36	100
6	43512	Yellow	3.5	11.0	23.0	12	0.20	0.49	100
10	43612	Red	4.5	12.5	24.0	12	0.20	0.65	100
16	43712	Dark Blue	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 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

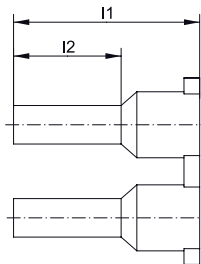
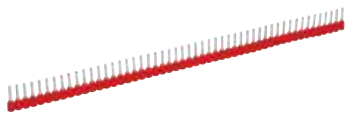
Technical instructions

- Tool: see page 1.135
- You will find further information on the cable descriptions in the technical appendix, page i-6

Nennquerschnitt mm ²	Art.-Nr.	Farbe	Abmessung mm					Gewicht/ 1000 St. ~ kg	VE/St.
			d1	d3	l1	l2	s1		
2 x 0.25	8678		1.20	2.3/3.9	15.0	8	0.15	0.110	1000
2 x 0.34	8688		1.20	2.3/3.9	15.0	8	0.15	0.110	1000
2 x 0.5	8698		1.40	3.0/5.2	15.0	8	0.15	0.110	1000
2 x 0.75	8708		1.70	3.3/5.5	15.0	8	0.15	0.130	1000
	87010		1.70	3.3/5.5	17.0	10	0.15	0.150	1000
2 x 1	8718		2.00	4.0/6.0	15.0	8	0.15	0.170	1000
	87110		2.00	4.0/6.0	17.0	10	0.15	0.170	1000
2 x 1.5	8728		2.20	4.2/7.2	16.0	8	0.15	0.183	1000
	87212		2.20	4.2/7.2	20.0	12	0.15	0.237	1000
2 x 2.5	87310		2.80	4.8/8.4	18.5	10	0.20	0.312	100
	87313		2.80	4.8/8.4	21.5	13	0.20	0.340	100
2 x 4	87412		3.70	5.7/9.6	23.0	12	0.20	0.467	100
2 x 6	87514		4.80	7.7/10.8	26.0	14	0.20	0.730	100
2 x 10	87614		6.40	8.0/13.8	26.0	14	0.20	0.884	100
2 x 16	87714		8.20	10.4/19.2	30.0	14	0.20	1.273	100



Insulated cable end-sleeves, strip form



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

Characteristics

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

Material

- Copper (EN13600)
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

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

Insulated cable end-sleeves, small coil



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

Characteristics

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

Material

- Copper (EN13600)
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

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

Insulated cable end-sleeves, large coil



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

Characteristics

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

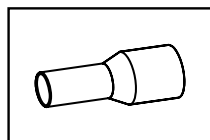
Material

- Copper (EN13600)
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

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

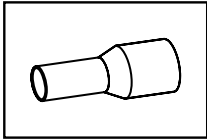


Tool application chart

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

Part 1 of 2

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0,08 - 10	K303		2.9		◇
	0,08 - 16	K306K		2.10		◇
		K304K		2.9		◇
	0,14 - 10	K3014K		2.10		◇
		K3016K		2.11		◇
		K32		2.8		◇
	0,14 - 2,5	K48		2.7		◇
	0,5 - 2,5	K4		2.6		◇
	0,5 - 6	K36		2.8		◇
	0,5 - 16	K3		2.6		◇
	10 - 35	K35		2.7		◇
	25 - 50	K05WF50		2.18	2.18	◇
	50 - 95	K05WF95		2.18	2.18	◇
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	0,5 - 6	K507		2.22		◇
	0,5 - 50	K507WF		2.22		◇
		K50		2.23	2.82	◇
		EKWF50ML		6.5	2.82	◇
		EK50ML		6.6	2.82	◇
	10 - 50	K354		2.24	2.86	◇
	25 - 240	K22		2.26	2.90	◇
Hand hydraulic crimping tools	25 - 240	HK6022		2.56	2.90	◇
		HK12030		2.60	2.94	◇
		HK12042		2.62	2.94	◇
		HK120U		2.64	2.94	◇
Battery powered crimping tools	6 - 120	EKWF120ML		2.31		◇
	10 - 50	EK354ML		2.32	2.86	◇
		EK354		2.36	2.86	◇
	25 - 240	EKM6022		2.38	2.90	◇
		EK6022		2.40	2.90	◇
		EK12032		2.46	2.94	◇
		EK12042		2.48	2.94	◇
		EK120U		2.50	2.94	◇
		EK135FT	+UA15T	2.52	2.94	◇
		EKM6022IS		4.6	2.90	◇
		EKM60UNV	+UA22	6.11	2.90	◇
		EK60UNV	+UA22	6.12	2.90	◇
		EK120UNV	+UA12TKL	6.13	2.94	◇

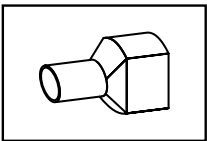


Tool application chart

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	
Hydraulic crimping systems	25 - 240	THK22		2.68	2.90	◇
		THK120		2.72	2.94	◇
		HK252	+25A13	2.78	2.94	◇
Hydraulic crimping heads	25 - 240	PK22		2.68	2.90	◇
		PK12042		2.72	2.94	◇
		PK120U		2.74	2.94	◇
		PK252	+25A13	2.76	2.94	◇
		PK60UNV	+UA22	6.10	2.90	◇



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	K36		2.8		□
		K32		2.8		□
		K303		2.9		◇
		K3014K		2.10		◇
		K3016K		2.11		◇
	2 x 0,5 - 2 x 6	K304K		2.9		◇
	2 x 0,5 - 2 x 10	K306K		2.10		◇
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	2 x 16	K05WF50		2.18		◇
	2 x 6 - 2 x 16	K50		2.23	2.83	◇
		EKWF50ML		6.5	2.83	◇
		EK50ML		6.6	2.83	◇
		K507WF		2.22		◇
Battery powered crimping tools	6 - 120	EKWF120ML		2.31		◇



PRECISION - CABLE CONNECTIONS, INSULATED AND NON-INSULATED

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



In brief

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

► Easy insulation

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

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

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

► More hold with grooved profile

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

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



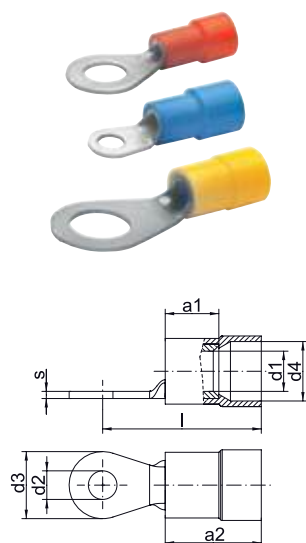
► Quality in detail

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

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



Insulated solderless terminals



- ▶ For fine and superfine stranded conductors, e.g. to 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 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

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
	--	65012	■	*	6	12.5	3.6	13.0	18.0	6.5	27.5	1.0	0.320	100

Insulated solderless terminals, fork type



- ▶ For fine and superfine stranded conductors, e.g. to 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

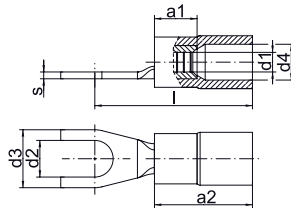
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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



Nominal cross section mm ²	Nominal size to DIN	Part No.	Colour	Hint	Dimension mm								Weight/ pcs. ~kg	Packing unit/pcs
					a1	a2	d1	d2	d3	d4	l	s		
0.1 - 0.4	--	619C3		*	--	--	--	3.2	5.0	--	14.0	0.5	0.020	100
0.5 - 1	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
	4.0 - 1	620C4			5	10.5	1.6	4.3	6.8	4.5	17.5	0.8	0.070	100
	5.0 - 1	620C5			5	10.5	1.6	5.3	10.0	4.5	18.5	0.8	0.090	100
	--	620C6		*	5	10.5	1.6	6.5	11.0	4.5	20.5	0.8	0.080	100
1.5 - 2.5	3.0 - 2.5	630C3			5	11.5	2.3	3.2	6.0	5.1	17.5	0.8	0.060	100
	3.5 - 2.5	630C35			5	11.5	2.3	3.7	6.8	5.1	18.5	0.8	0.065	100
	4.0 - 2.5	630C4			5	11.5	2.3	4.3	6.8	5.1	18.5	0.8	0.080	100
	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 - 6	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
	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 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

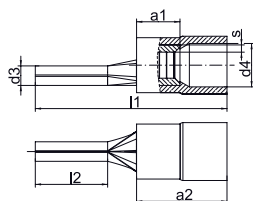
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

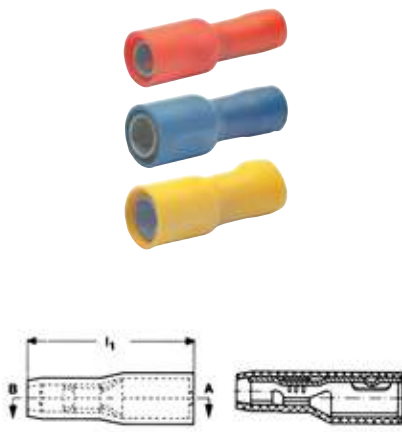
Additional information

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



Nominal cross section mm ²	Nominal size to DIN	Part No.	Colour	Hint	Dimension mm						Weight/ pcs. ~kg	Packing unit/pcs
					a1	a2	d3	d4	l1	l2		
0.1 - 0.4	--	704		*	--	--	1.4	--	18.0	9.0	0.020	100
0.5 - 1	1	705			5	10.5	1.9	4.5	22.0	10.0	0.065	100
		705K		*	5	10.5	1.9	4.5	18.0	6.0	0.060	100
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 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 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

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	Red	4	22	0.060	100
1.5 - 2.5	930	Blue	5	22	0.120	100
4 - 6	950	Yellow	5	22	0.125	100

Insulated pin receptacles



- ▶ For fine and superfine stranded conductors, e.g. to 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 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

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	Red	4	22	9	0.060	100
1.5 - 2.5	1030	Blue	5	22	9	0.075	100
4 - 6	1050	Yellow	5	22	9	0.110	100



Insulated pin receptacles, fully insulated



- ▶ For fine and superfine stranded conductors, e.g. to 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 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

- 4 - 6 mm² not CSA-tested

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

Insulated pin receptacles, fully insulated



- ▶ For fine and superfine stranded conductors, e.g. to 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

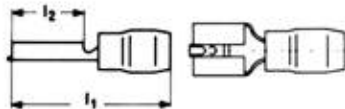
- Tool: see page 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

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

Insulated receptacles, tinned brass



► For fine and superfine stranded conductors, e.g. to 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

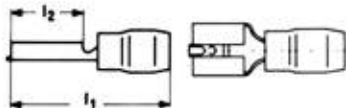
Technical instructions

- Tool: see page 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

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



Insulated receptacles, tinned bronze



- ▶ For fine and superfine stranded conductors, e.g. to 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

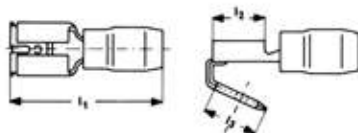
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

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

Insulated receptacles, multiple type



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

Characteristics

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

Material

- Brass (CuZn)
- Insulation sleeve: PVC

Surface

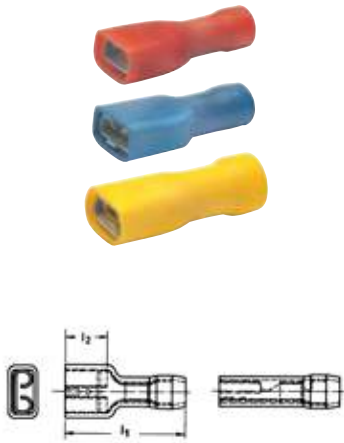
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

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

Insulated receptacles, fully insulated



- For fine and superfine stranded conductors, e.g. to 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 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

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



Insulated tabs



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

Characteristics

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

Material

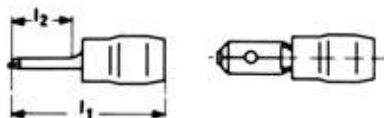
- Brass (CuZn)
- Insulation sleeve: PVC/PA

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6



Nominal cross section mm ²	Part No.	Colour	Tab Thickn.	Tab Width	Dimension mm		Insulation material	Weight/pcs. ~kg	Packing unit/pcs
					l1	l2			
0.5 - 1	8201C	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 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

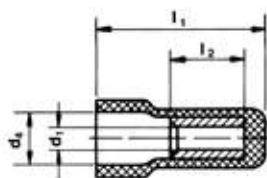
- Copper (ETP)
- Insulation sleeve: PA

Surface

- Tin-plated to protect against corrosion

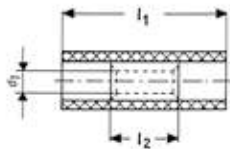
Technical instructions

- Tool: see page 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6



Nominal cross section mm ²	Part No.	Colour	Dimension mm				Weight/pcs. ~kg	Packing unit/pcs
			d1	d2	l1	l2		
1.5 - 2.5	1130	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 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

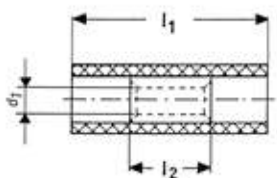
- Tool: see page 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

- 0.1 - 0.4 mm² not CSA-tested

Nominal cross section mm ²	Part No.	Colour	Dimension mm			Weight/pcs. ~kg	Packing unit/pcs
			d1	l1	l2		
0.1 - 0.4	669		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 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

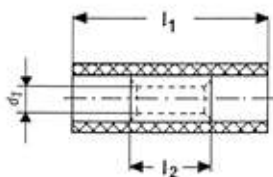
Technical instructions

- Tool: see page 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

Nominal cross section mm ²	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 EN 60228 Cl. 5 and 6
- ▶ Fast processing as no additional insulation of the crimped connection is required
- ▶ Insulation sleeve halogen-free

Characteristics

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

Material

- Copper (ETP)
- Insulation sleeve: PA

Surface

- Tin-plated to protect against corrosion

Technical instructions

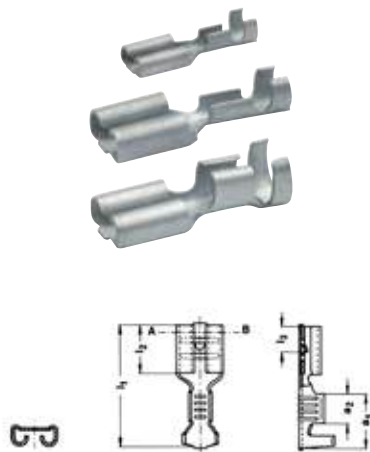
- Tool: see page 1.157
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

- 0.1 - 0.4 mm² not CSA-tested

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

Non-insulated receptacles



► For fine and superfine stranded conductors, e.g. to 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

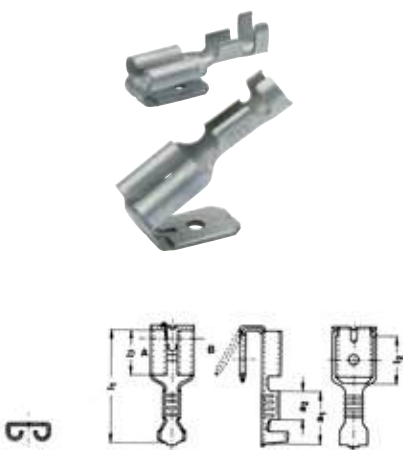
- Tool: see page 1.158
- You will find further information on the cable descriptions in the technical appendix, page i-6

Additional information

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

Nominal cross section mm ²	Nominal size to DIN	Part No.	Tab Thickn.	Tab Width	Dimension mm						Weight/ pcs. ~kg	Packing unit/pcs
					a1	a2	l1	l2	l3	s		
0.5 - 1	--	18251	0.5	2.8	5.0	2.8	12.5	5.0	3.3	0.30	0.025	100
	--	18251A	0.8	2.8	5.5	2.5	12.5	5.0	3.3	0.30	0.025	100
	B 2.8 - 1	18201A	0.8	2.8	5.5	2.5	14.0	6.3	3.3	0,35	0.025	100
	--	18202	0.5	4.8	6.0	3.4	15.6	6.0	3.8	0.35	0.050	100
	4.8 - 1	18203	0.8	4.8	6.0	3.4	15.6	6.0	3.8	0.35	0.050	100
	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 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 1.158
- You will find further information on the cable descriptions in the technical appendix, page i-6

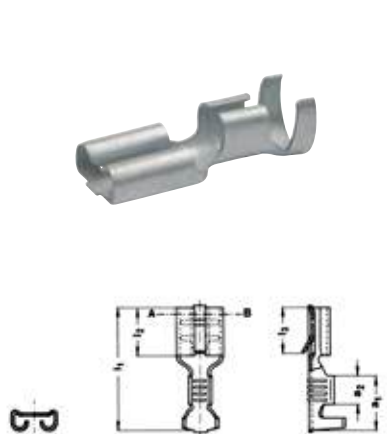
Additional information

- * = corresponds to DIN 46345

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



Non-insulated receptacles with locking latch



► For fine and superfine stranded conductors, e.g. to 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

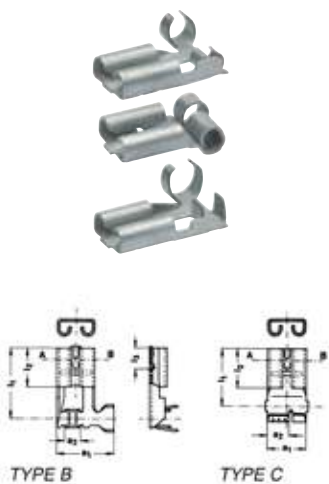
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.158
- You will find further information on the cable descriptions in the technical appendix, page i-6

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

Non-insulated receptacles with lateral conductor connector



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

Material

- Brass (CuZn)

Surface

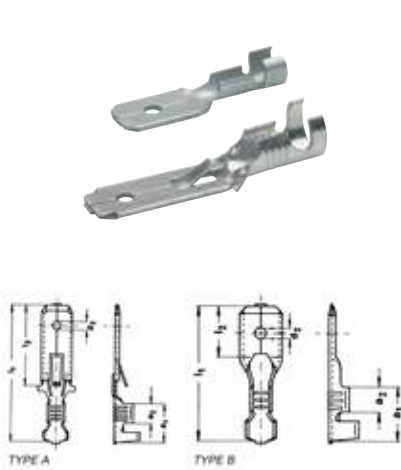
- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.158
- You will find further information on the cable descriptions in the technical appendix, page i-6

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

Non-insulated tabs



- ▶ For fine and superfine stranded conductors, e.g. to 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

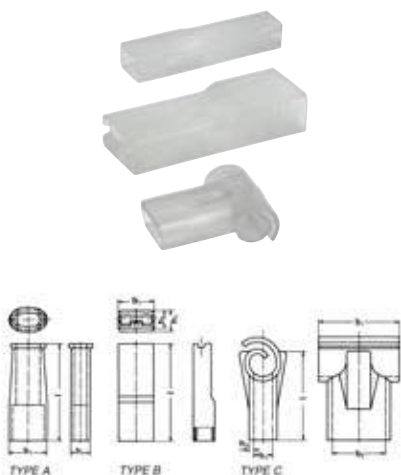
- Tool: see page 1.158
- You will find further information on the cable descriptions in the technical appendix, page i-6

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 mm ²	Nominal size to DIN	Part No.	Colour	Typ	Dimension mm			Insulation material	for item	Weight/pcs. ~kg	Packing unit/pcs
					b1	l	h1				
0.5 - 2.5	6.3	2770		A	12.5	23.0	8.5	PE	1720,1730	0.035	100
		2775		A	9.5	25.0	5.0	PE	1820,1830	0.030	100
0.5 - 4		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

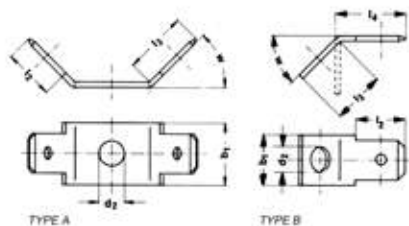
- To DIN 46342, part 1 and similar versions
- Dimensions in the plug sector to DIN 46244

Material

- Brass (CuZn)

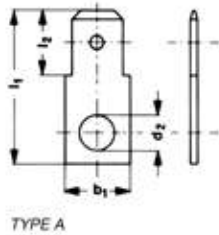
Surface

- 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
	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



Characteristics

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

Material

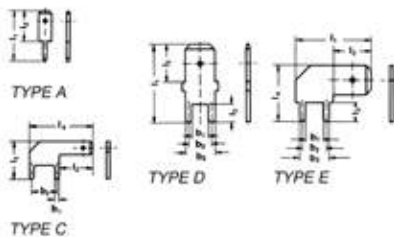
- Brass (CuZn)

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



Electrical connection systems

Cable connections, insulated and non insulated

Non-insulated multiple tabs



Characteristics

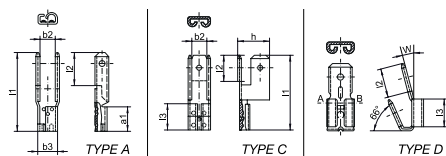
- Dimensions in the plug sector to DIN 46244

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
775	0.8	6.3	C	--	--	--	20.5	12	7.5	9.6	--	0.200	100
725	0.8	6.3	D	--	--	--	--	8	7.5	--	15°	0.115	100

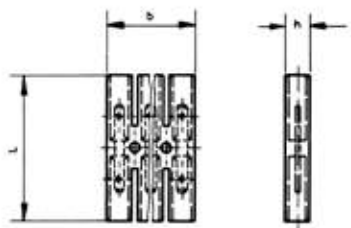
Flexible connector, tab width 2.8 mm, 4.8 mm and 6.3 mm

► No additional insulation required



Characteristics

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



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

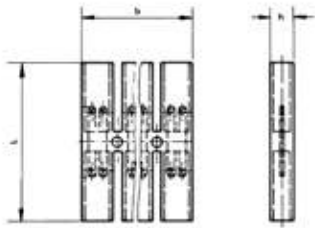
Polyamide connector, tab width 2.8 and 6.3 mm

► No additional insulation required



Characteristics

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



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

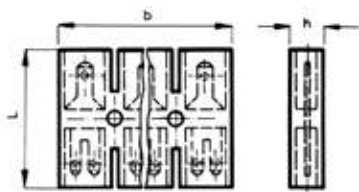
Flexible circuit distributor, tab width 2.8 mm

► No additional insulation required



Characteristics

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



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



Electrical connection systems

Cable connections, insulated and non insulated

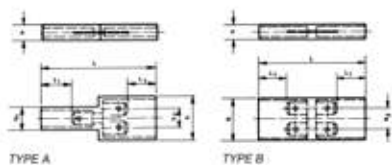
Flexible circuit distributor, tab width 6.3 mm



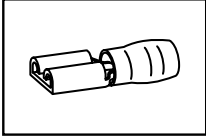
► No additional insulation required

Characteristics

- With tabs 6.3 x 0.8 mm



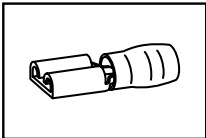
Part No.	Tab Thickn.	Tab Width	Typ	Dimension mm							Insulation material	Weight/ pcs. ~kg	Packing unit/pcs
				b	b1	b2	l	l1	h	s			
816	0.8	6.3	A	21	11.3	9	53	15	7.5	0.8	PVC	0.60	10
817	0.8	6.3	B	20	11.3	9	51	13	7.0	0.8	PVC	0.65	10



Tool application chart

Insulated cable connections

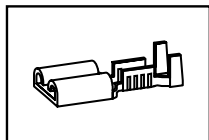
Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0,1 - 1	K80		2.11		○
	0,5 - 6	K82A		2.12		○
		K82T		2.13		○
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	0,1 - 16	K50		2.23	2.83	○
		EK50ML		6.6	2.83	○
	0,5 - 6	K507		2.22		○



Tool application chart

Butt connectors with heat shrink insulation

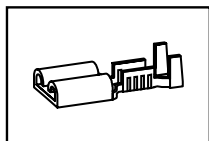
Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	0,1 - 16	K50		2.23	2.83	○
		EK50ML		6.6	2.83	○
	0,5 - 6	K82T		2.13		○



Tool application chart

Non-insulated receptacles, straight type

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0,5 - 2,5	K582		2.14		☺
	0,5 - 6	K592		2.14		☺
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	0,25 - 6	K50		2.23	2.83	☺
		EK50ML		6.6	2.83	☺



Tool application chart

Non-insulated receptacles, with lateral conductor connector

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical, electrical, pneumatic crimping tools with interchangeable die / head	3720, 3735	K50		2.23	2.83	☺
		EK50ML		6.6	2.83	☺
	3725	K50		2.23	2.83	☺
		EK50ML		6.6	2.83	☺



PRACTICAL - POCKET BOXES AND ASSORTMENT BOXES

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



In brief

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

► Practical and always to hand

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

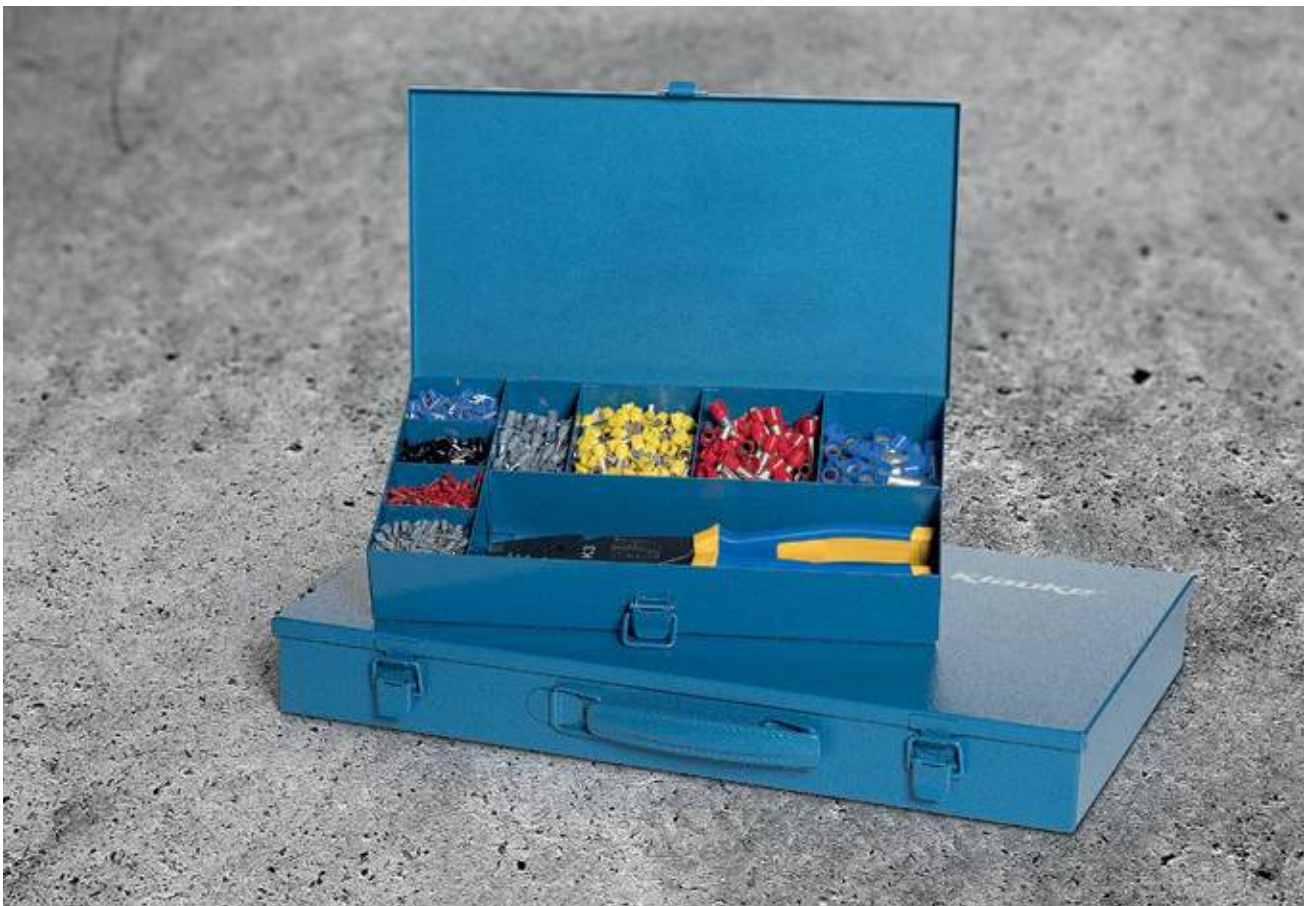
- Cable-end sleeves with and without insulation always to hand
- Practical chute opening for easy removal
- Stackable box
- Tough and impact-proof plastic



► Our range, your order

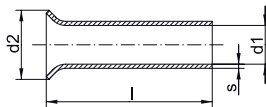
We have already compiled an assortment for you.
We offer pre-filled boxes for various applications.
You can also fill the robust box yourself if you want.

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





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



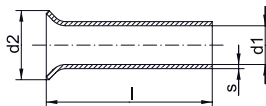
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



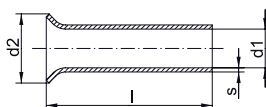
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



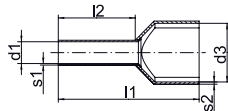
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



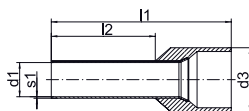
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



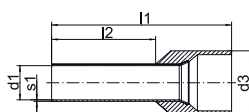
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item				Part No.
Pocket box with insl. cable end-sleeves 0.5 - 2.5 mm ² , DIN 46228 Part 4, colour code 1				ST1B
Scope of supply	Colour	Description	l2 mm	Quantity
ST1L		Pocket box		1
1690		Insl. cable end-sleeve, 0.5 mm ² , 14 mm	8	50
170W		Insl. cable end-sleeve, 0.75 mm ² , 14.6 mm	8	100
171G		Insl. cable end-sleeve, 1 mm ² , 14.6 mm	8	100
172R0		Insl. cable end-sleeve, 1.5 mm ² , 14.6 mm	8	100
173B		Insl. cable end-sleeve, 2.5 mm ² , 15.2 mm	8	50

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



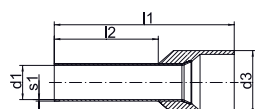
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



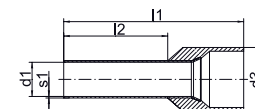
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



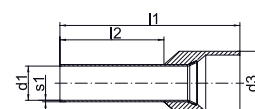
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



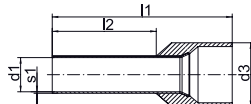
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



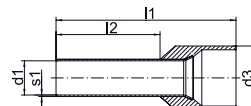
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



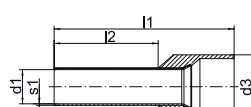
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



► Pocket box made from impact-resistant plastic

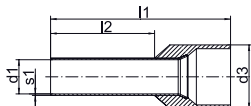
Characteristics

- Stackable and resealable

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



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



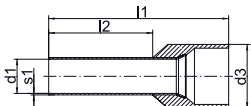
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



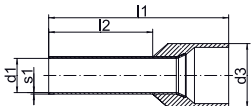
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



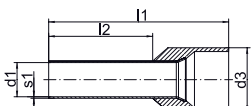
► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

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



► Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

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

ST 5 L assortment of empty pocket boxes



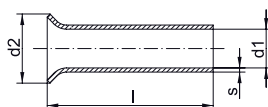
► Pocket box made from impact-resistant plastic

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

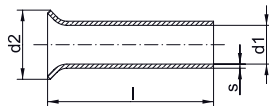


► Hammer-tone finished assortment box
► Ideal for workshop equipment

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
SK30L	Steel carrying case		1
K48	Crimping tool for cable end-sleeves 0.14 - 2.5 mm ²	6	1
716V	Cable end-sleeve, 0.75 mm ² , 6 mm	6	1000
72S6V	Cable end-sleeve, 1.0 mm ² , 6 mm	6	1000
727V	Cable end-sleeve, 1.5 mm ² , 7 mm	7	1000
737V	Cable end-sleeve, 2.5 mm ² , 7 mm	7	1000



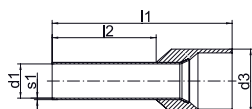
SK 32 B Steel assortment box with cable end-sleeves and crimping tool



- ▶ 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
SK32L	Steel carrying case		1
K3	Crimping tool for cable end-sleeves 0.5 - 16 mm²		1
716V	Cable end-sleeve, 0.75 mm², 6 mm	6	1000
72S6V	Cable end-sleeve, 1.0 mm², 6 mm	6	1000
727V	Cable end-sleeve, 1.5 mm², 7 mm	7	1000
737V	Cable end-sleeve, 2.5 mm², 7 mm	7	500
749V	Cable end-sleeve, 4 mm², 9 mm	9	500
7510V	Cable end-sleeve, 6 mm², 10 mm	10	500
7618V	Cable end-sleeve, 10 mm², 18 mm	18	250
7718V	Cable end-sleeve, 16 mm², 18 mm	18	150

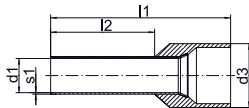
SK 45 B Steel assortment box with insl. cable end-sleeves and crimping tool



- ▶ 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
SK30L		Steel carrying case		1
K48		Crimping tool for cable end-sleeves 0.14 - 2.5 mm²	8	1
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	8	300
4718		Insl. cable end-sleeve, 1 mm², 14 mm	8	300
4728		Insl. cable end-sleeve, 1.5 mm², 14 mm	8	300
4738		Insl. cable end-sleeve, 2.5 mm², 14 mm		200

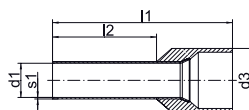
SK 47 B Steel assortment box with insl. cable end-sleeves and crimping tool



- 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
SK32L		Steel carrying case		1
K3		Crimping tool for cable end-sleeves 0.5 - 16 mm²		1
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	8	200
4718		Insl. cable end-sleeve, 1 mm², 14 mm	8	200
4728		Insl. cable end-sleeve, 1.5 mm², 14 mm	8	200
4738		Insl. cable end-sleeve, 2.5 mm², 14 mm	8	200
47410		Insl. cable end-sleeve, 4 mm², 17 mm	10	100
47512		Insl. cable end-sleeve, 6 mm², 20 mm	12	100
47618		Insl. cable end-sleeve, 10 mm², 28 mm	18	100
47718		Insl. cable end-sleeve, 16 mm², 28 mm	18	50

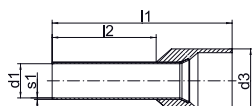
SK 30/3 P Assortment box from plastic with insl. cable end-sleeves and tools



- 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
K432		Automatic wire stripper K43/2 0.02 - 10 mm²		1
K303		Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 10 mm²	8	1
4698		Insl. Cable end-sleeve, 0.5 mm², 14 mm	8	400
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	8	400
4718		Insl. cable end-sleeve, 1 mm², 14 mm	8	400
4728		Insl. cable end-sleeve, 1.5 mm², 14 mm	8	400
4738		Insl. cable end-sleeve, 2.5 mm², 14 mm	10	200
47410		Insl. cable end-sleeve, 4 mm², 17 mm	12	200
47512		Insl. cable end-sleeve, 6 mm², 20 mm	12	100
47612		Insl. cable end-sleeve, 10 mm², 22 mm		100

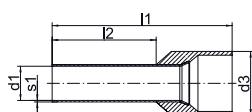
SK 30/3 S Assortment box from plastic with insl. cable end-sleeves and crimping tool



- ▶ 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
K303		Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 10 mm²		1
4698		Insl. Cable end-sleeve, 0.5 mm², 14 mm	8	100
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	8	100
4718		Insl. cable end-sleeve, 1 mm², 14 mm	8	100
4728		Insl. cable end-sleeve, 1.5 mm², 14 mm	8	100
4738		Insl. cable end-sleeve, 2.5 mm², 14 mm	10	50
47410		Insl. cable end-sleeve, 4 mm², 17 mm	12	50
47512		Insl. cable end-sleeve, 6 mm², 20 mm	18	30
47612		Insl. cable end-sleeve, 10 mm², 22 mm	18	30

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
SK43L		Steel carrying case		1
K432		Automatic wire stripper K43/2 0.02 - 10 mm²		1
K32		TWIST-it Crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm²		1
4698		Insl. cable end-sleeve, 0.5 mm², 14 mm	8	500
4708		Insl. cable end-sleeve, 0.75 mm², 14 mm	8	500
4718		Insl. cable end-sleeve, 1 mm², 14 mm	8	400
4728		Insl. cable end-sleeve, 1.5 mm², 14 mm	8	400
4738		Insl. cable end-sleeve, 2.5 mm², 14 mm	10	300
47410		Insl. cable end-sleeve, 4 mm², 17 mm	12	100
47512		Insl. cable end-sleeve, 6 mm², 20 mm	18	100
47612		Insl. cable end-sleeve, 10 mm², 22 mm	18	100

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

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.

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	
SK65L	Steel carrying case	1	
K05D	Crimping tool for compression cable lugs and connectors (DIN 46235 / DIN 46267, Part 1) 6 - 50 mm ²	1	
101R5	Compression cable lug, DIN 46235, 6 mm ² , M5, Cu tinned	50	
101R6	Compression cable lug, DIN 46235, 6 mm ² , M6, Cu tinned	50	
102R5	Compression cable lug, DIN 46235, 10 mm ² , M5, Cu tinned	50	
102R6	Compression cable lug, DIN 46235, 10 mm ² , M6, Cu tinned	50	
103R8	Compression cable lug, DIN 46235, 16 mm ² , M8, Cu tinned	25	
103R10	Compression cable lug, DIN 46235, 16 mm ² , M10, Cu tinned	25	
104R8	Compression cable lug, DIN 46235, 25 mm ² , M8, Cu tinned	25	
104R10	Compression cable lug, DIN 46235, 25 mm ² , M10, Cu tinned	25	
105R8	Compression cable lug, DIN 46235, 35 mm ² , M8, Cu tinned	20	
105R10	Compression cable lug, DIN 46235, 35 mm ² , M10, Cu tinned	20	
106R10	Compression cable lug, DIN 46235, 50 mm ² , M10, Cu tinned	15	
106R12	Compression cable lug, DIN 46235, 50 mm ² , M12, Cu tinned	15	

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
MK230L		Steel carrying case	1
K507		Crimping tool with replaceable dies	1
6204		Insl. solderless terminal M4, 0.5 - 1 mm ²	50
6205		Insl. solderless terminal M5, 0.5 - 1 mm ²	50
6206		Insl. solderless terminal M6, 0.5 - 1 mm ²	50
6304		Insl. solderless terminal M4, 1.5 - 2.5 mm ²	50
6305		Insl. solderless terminal M5, 1.5 - 2.5 mm ²	50
6306		Insl. solderless terminal M6, 1.5 - 2.5 mm ²	50
670		Insl. butt connector, 0.5 - 1 mm ²	50
680		Insl. butt connector, 1.5 - 2.5 mm ²	50
705		Insl. pin terminal, 0.5 - 1 mm ² , 22 mm	50
710		Insl. pin terminal, 1.5 - 2.5 mm ² , 23 mm	50
730		Insl. receptacle 6.3 x 0.8 mm, 1.5 - 2.5 mm ²	50
830		Insl. tab 6.3 x 0.8 mm, 1.5 - 2.5 mm ²	50
620C4		Insl. solderless terminal M4, 0.5 - 1 mm ²	50
630C4		Insl. solderless terminal M4, 1.5 - 2.5 mm ²	50
715		Insl. pin terminal, 4 - 6 mm ² , 26 mm	25
700		Insl. butt connector, 4 - 6 mm ²	25
6505		Insl. solderless terminal M5, 4 - 6 mm ²	25
6506		Insl. solderless terminal M6, 4 - 6 mm ²	25
650C6		Insl. solderless terminal M6, 4 - 6 mm ²	25



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
K432		Automatic wire stripper K43/2 0.02 - 10 mm ²	1
K82A		Crimping tool for insulated cable connections 0.5 - 6 mm ²	1
6204	■	Insl. solderless terminal M4, 0.5 - 1 mm ²	50
6205	■	Insl. solderless terminal M5, 0.5 - 1 mm ²	50
670	■	Insl. butt connector, 0.5 - 1 mm ²	50
720	■	Insl. receptacle 6.3 x 0.8 mm, 0.5 - 1 mm ²	50
6304	■	Insl. solderless terminal M4, 1.5 - 2.5 mm ²	50
6305	■	Insl. solderless terminal M5, 1.5 - 2.5 mm ²	50
680	■	Insl. butt connector, 1.5 - 2.5 mm ²	50
730	■	Insl. receptacle 6.3 x 0.8 mm, 1.5 - 2.5 mm ²	50
6505	■	Insl. solderless terminal M5, 4 - 6 mm ²	20
6506	■	Insl. solderless terminal M6, 4 - 6 mm ²	20
700	■	Insl. butt connector, 4 - 6 mm ²	20
715	■	Insl. pin terminal, 0.1 - 0.4 mm ² , 26 mm	20
620C4	■	Insl. solderless terminal M4, 0.5 - 1 mm ²	20
630C4	■	Insl. solderless terminal M4, 1.5 - 2.5 mm ²	20
705	■	Insl. pin terminal, 0.5 - 1 mm ² , 22 mm	20
710	■	Insl. pin terminal, 1.5 - 2.5 mm ² , 23 mm	20

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
K82A		Crimping tool for insulated cable connections 0.5 - 6 mm²	1
6204		Insl. solderless terminal M4, 0.5 - 1 mm²	20
6205		Insl. solderless terminal M5, 0.5 - 1 mm²	20
670		Insl. butt connector, 0.5 - 1 mm²	20
720		Insl. receptacle 6.3 x 0.8 mm, 0.5 - 1 mm²	20
6304		Insl. solderless terminal M4, 1.5 - 2.5 mm²	20
680		Insl. butt connector, 1.5 - 2.5 mm²	20
730		Insl. receptacle 6.3 x 0.8 mm, 1.5 - 2.5 mm²	20
6305		Insl. solderless terminal M5, 1.5 - 2.5 mm²	20

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 K4 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

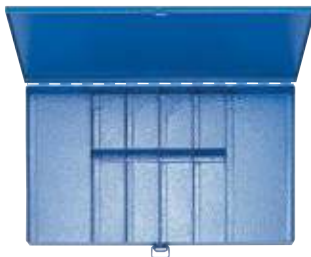
- 6 small and 1 large additional compartments with lock

Suitable for

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

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 tool K82A

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 tool K82A

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 tool K82A

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

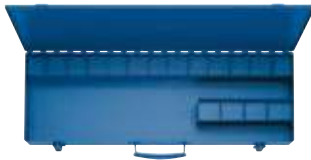
- 12 small and 1 large additional compartments with lock and handle

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 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 tool HK25/2

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 and SDK 120)

Item	Weight kg	Part No.
Carrying bag	0.48	TT2

TT4 Carrying case



Suitable for

- For storage of cutting heads SDK 105 and SDK 120

Item	Weight kg	Part No.
Carrying bag	0.73	TT4



SYSTEMATIC ORDER - L-BOXX FROM BS SYSTEMS

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



In brief

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

► Large or small?

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

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



► Everything practically packed

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

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

► Sorted on the go

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

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





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



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

Characteristics

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

Item	Dimension mm	Part No.
L-BOXX from plastic with standard equipment for electrical installations	442 x 357 x 117	LBOXX65B
Scope of supply	Description	Quantity
K05	Crimping tool for tubular cable lugs and connectors, standard type 6 - 50 mm ²	1
K100	Hand-operated cutting tool for Cu and Al cables to 14 mm dia.	1
KL740416	Cable knife, without blade 4 - 16 mm dia.	1
1R6	Tubular cable lug without inspection hole, 6 mm ² , M6, Cu tinned	25
1R8	Tubular cable lug without inspection hole, 6 mm ² , M8, Cu tinned	25
2R6	Tubular cable lug without inspection hole, 10 mm ² , M6, Cu tinned	25
2R8	Tubular cable lug without inspection hole, 10 mm ² , M8, Cu tinned	25
3R10	Tubular cable lug without inspection hole, 16 mm ² , M10, Cu tinned	25
4R8	Tubular cable lug without inspection hole, 25 mm ² , M8, Cu tinned	20
4R10	Tubular cable lug without inspection hole, 25 mm ² , M10, Cu tinned	20
5R8	Tubular cable lug without inspection hole, 35 mm ² , M8, Cu tinned	20
5R10	Tubular cable lug without inspection hole, 35 mm ² , M10, Cu tinned	20
6R10	Tubular cable lug without inspection hole, 50 mm ² , M10, Cu tinned	15
LBOXX102LFG	L-BOXX with front handle	1

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



Item	Dimension mm	Part No.
L-BOXX with electromechanical crimping tool EK 50 ML 0.14 - 50 mm ² and extensive additional equipment	442 x 357 x 151	LBOXXEK50ML
Scope of supply	Description	Quantity
RAML1225	Battery 10.8 V / 2.5 Ah, Li-Ion (27 Wh)	1
LGML1	Charger for 10.8 V Li-Ion batteries, 230 V	1
K118	Hand-operated cutting tool for Cu and Al cables to 12 mm dia.	1
AE5072	Crimping dies AE 507 for cable end-sleeves, 10 - 25 mm ²	1
47612	Insul. cable end-sleeve, 10 mm ² , 22 mm	50
47712	Insul. cable end-sleeve, 16 mm ² , 24 mm	50
47818	Insul. cable end-sleeve DIN 46228 part 4, 25 mm ²	25
R505	Crimping dies R 50, 16 - 25 mm ²	1
3R8	Tubular cable lug without inspection hole, 16 mm ² , M8, Cu tinned	25
4R8	Tubular cable lug without inspection hole, 25 mm ² , M8, Cu tinned	25
AE5073	Crimping dies AE 507 for cable end-sleeves, 35 - 50 mm ²	1
47918	Insul. cable end-sleeve DIN 46228 part 4, 35 mm ²	25
48025	Insul. cable end-sleeve DIN 46228 part 4, 50 mm ² , 40 mm long	20
IS5072	Crimping dies IS 50, single crimping, 10 - 16 mm ²	1
652C6	Insul. solderless terminal M6, 10 mm ² , fork-type	50
LBOXX136LFG	L-BOXX with front handle (W/D/H: 442 x 357 x 151 mm)	1

L-BOXXes from plastic with tubular cable lugs



LBOXX3R8SET

► Comprehensive equipment for conductor preparation for construction site and workshop

Characteristics

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

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

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

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

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

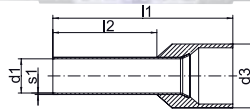


L-BOXX 230 B from plastic with standard equipment for electrical installations



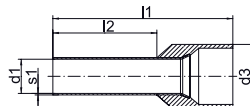
Item		Dimension mm	Part No.
L-BOXX from plastic with standard equipment for electrical installations		442 x 357 x 117	LBOXX230B
Scope of supply	Colour	Description	Quantity
K432		Automatic wire stripper K43/2 0.02 - 10 mm ²	1
K507		Crimping tool with replaceable dies	1
720	Red	Insl. receptacle 6.3 x 0.8 mm, 0.5 - 1 mm ²	50
730	Blue	Insl. receptacle 6.3 x 0.8 mm, 1.5 - 2.5 mm ²	50
820	Red	Insl. tab 6.3 x 0.8 mm, 0.5 - 1 mm ²	50
830	Blue	Insl. tab 6.3 x 0.8 mm, 1.5 - 2.5 mm ²	50
6204	Red	Insl. solderless terminal M4, 0.5 - 1 mm ²	50
6305	Blue	Insl. solderless terminal M5, 1.5 - 2.5 mm ²	50
6506	Yellow	Insl. solderless terminal M6, 4 - 6 mm ²	50
670	Red	Insl. butt connector, 0.5 - 1 mm ²	50
680	Blue	Insl. butt connector, 1.5 - 2.5 mm ²	50
700	Yellow	Insl. butt connector, 4 - 6 mm ²	25
1652C5		Solderless terminals fork type 10 mm ² , M5	50
1652C6		Solderless terminals fork type 10 mm ² , M6	50
16505		Solderless terminals DIN 46234, 4 - 6 mm ² , M5, Cu tinned	50
16506		Solderless terminals DIN 46234, 4 - 6 mm ² , M6, Cu tinned	50
4708	Grey	Insl. cable end-sleeve, 0.75 mm ² , 14 mm	400
4718	Red	Insl. cable end-sleeve, 1 mm ² , 14 mm	400
4728	Black	Insl. cable end-sleeve, 1.5 mm ² , 14 mm	400
4738	Blue	Insl. cable end-sleeve, 2.5 mm ² , 14 mm	200
47410	Grey	Insl. cable end-sleeve, 4 mm ² , 17 mm	100
47512	Yellow	Insl. cable end-sleeve, 6 mm ² , 20 mm	100
47612	Red	Insl. cable end-sleeve, 10 mm ² , 22 mm	100
LBOXX102LFG		L-BOXX with front handle	1

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



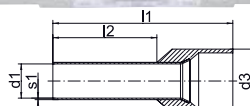
Item		Part No.		
L-BOXX from plastic with crimping tool and insl. cable end-sleeves 1.5 - 10 mm ²		LBOXXMINIK306K		
Scope of supply	Colour	Description	l2 mm	Quantity
K306K		Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 16 mm ²		1
K118		Hand-operated cutting tool for Cu and Al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

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



Item		Part No.		
L-BOXX from plastic with crimping tool and insl. cable end-sleeves 1.5 - 10 mm ²		LBOXXMINIK304K		
Scope of supply	Colour	Description	l2 mm	Quantity
K304K		K 30/4 K crimping tool for cable end-sleeves 0.08 to 16 mm ² and twin cable end-sleeves 2 x 0.5 - 2 x 6 mm ²		1
K118		Hand-operated cutting tool for Cu and Al cables to 12 mm dia.		1
4728		Insl. cable end-sleeve, 1.5 mm ² , 14 mm	8	100
47312		Insl. cable end-sleeve, 2.5 mm ² , 18 mm	12	100
47412		Insl. cable end-sleeve, 4 mm ² , 20 mm	12	50
47512		Insl. cable end-sleeve, 6 mm ² , 20 mm	12	50
47612		Insl. cable end-sleeve, 10 mm ² , 22 mm	12	30
LBOXXMINIL		L-BOXX "Mini"		1

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



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

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

**NEXT
GENERATION**



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

Bosch battery

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

Makita battery

Tool	Crimping	Cutting	Punching	Part No.
EK 35/4	6 - 150 mm ²			LBOXXEK354CFM
EKM 60/22	6 - 300 mm ²			LBOXXEKM6022CFM
EKM 60 ID	10 - 240 mm ²			LBOXXEKM60IDCFM
ES 32 F		max. 32 mm dia.		LBOXXES32FCFM
ES 32		max. 32 mm dia.		LBOXXES32CFM
LS 50 FLEX			round/shape	LBOXXLS50FLEXCFM

Crimping & cutting

(shown is the scope of supply with Bosch battery)

Part No.	Scope of supply	LBOXX-						
		EK354	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 x 122 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

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FULL FORCE TRANSMISSION - MECHANICAL CRIMPING TOOLS

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



In brief

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

► Developed for a broad range of applications

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

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





Crimping

Mechanical crimping tools

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



► Indent crimping for round clamp opening

Characteristics

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

Technical data

Crimping range 0.5 - 2.5 mm²

Length 150 mm

Weight 0.16 kg

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

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 mm ²	K3
Accessories	Part No.
Steel carrying case	SK32L
Variants	Part No.
Steel assortment box with cable end-sleeves and crimping tool	SK32B
Steel assortment box with incl. cable end-sleeves and crimping tool	SK47B
L-BOXX from plastic with crimping tool and cable end-sleeves 0.5 - 16 mm ²	LBOXXMINIK3

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 mm ²	K35
Accessories	Part No.
Steel carrying case	SK32L

K 48 Crimping tool for cable end-sleeves 0.14 - 2.5 mm²



- ▶ Trapezoid crimping suitable for box terminals

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 mm ²	K48
Accessories	Part No.
Steel carrying case	SK30L
Variants	Part No.
Steel assortment box with cable end-sleeves and crimping tool	SK30B
Steel assortment box with incl. cable end-sleeves and crimping tool	SK45B



Crimping

Mechanical crimping tools

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 mm ² and twin cable end-sleeves 2 x 0.25 - 2 x 1.5 and 2 x 2.5 - 2 x 4 mm ²	K36
Accessories	Part No.
Steel carrying case	SK32L



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

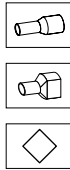
Crimping range twin cable end-sleeves 2 x 0.25 - 2 x 4 mm²

Length 177 mm

Weight 0.298 kg

Item	Part No.
Crimping tool for cable end-sleeves 0,14 - 10 mm ² and twin cable end-sleeves 2 x 0,25 - 2 x 4 mm ²	K32
Accessories	Part No.
Steel carrying case	SK43L
Steel carrying case	SK30L
Steel carrying case	SK32L

K 30/3 Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 10 mm²



► Square crimping suitable for box terminals and spring clamp technology

Characteristics

- One crimping profile for cross-sections from 0.08-10 mm² due to automatic cross-section adjustment
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Handle with slip guard and inscription panel

Technical data

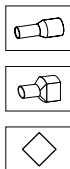
Crimping range cable end-sleeves	0.08 - 10 mm ²
Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 4 mm ²
Length	190 mm
Weight	0.3 kg

Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 10 mm ²	K303

Accessories	Part No.
Steel carrying case	SK30L

Variants	Part No.
Plastic assortment box with insl. cable end-sleeves and tools	SK303P
Plastic assortment box with insl. cable end-sleeves and crimping tool	SK303S
Steel assortment box with insl. cable end-sleeves and tools	SK43NB

K 30/4 K Self-adjusting crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 16 mm²



► Square crimping K 30/4 K

Characteristics

- One crimping profile for cross-sections from 0.08-16 mm² due to automatic cross-section adjustment
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Positioner for small cable end-sleeves
- Handle with slip guard and inscription panel

Technical data

Crimping range cable end-sleeves	0.08 - 16 mm ²
Crimping range twin cable end-sleeves	2 x 0.5 - 2 x 6 mm ²
Length	215 mm
Weight	0.5 kg

Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 16 mm ² , square crimping	K304K

Accessories	Part No.
Steel carrying case	SK30L

Variants	Part No.
L-BOXX from plastic with crimping tool and insl. cable end-sleeves 1.5 - 10 mm ²	LBOXXMINIK304K



Crimping

Mechanical crimping tools

K 30/6 K Self-adjusting crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 16 mm²



► Hexagonal crimping K 30/6 K

Characteristics

- One crimping profile for cross-sections from 0.08-16 mm² due to automatic cross-section adjustment
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Positioner for small cable end-sleeves
- Handle with slip guard and inscription panel

Technical data

Crimping range cable end-sleeves	0.08 - 16 mm ²

Crimping range twin cable end-sleeves	2 x 0.5 - 2 x 10 mm ²

Length	215 mm

Weight	0.5 kg

Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 16 mm ² , hexagonal crimping	K306K

Accessories	Part No.
Steel carrying case	SK30L

Variants	Part No.
L-BOXX from plastic with crimping tool and insl. cable end-sleeves 1.5 - 10 mm ²	LBOXXMINIK306K

K 301/4 K Self-adjusting crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm²



- Square crimping
- Very light and ergonomic

Characteristics

- One crimping profile for all cross-sections due to automatic cross-section adjustment
- With ratchet for consistently-controlled crimp results
- Lateral insertion (side crimping)
- Handle with slip guard and inscription panel
- Safety pad in handle for slip-free working

Technical data

Crimping range cable end-sleeves	0.14 - 10 mm ²

Crimping range twin cable end-sleeves	2 x 0.25 - 2 x 4 mm ²

Length	175 mm

Weight	0.35 kg

Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm ²	K3014K

Variants	Part No.
L-BOXX from plastic with crimping tool and insl. cable end-sleeves 1.5 - 10 mm ²	LBOXXMINIK3014K

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

Item	Part No.
Crimping tool for cable end-sleeves and twin cable end-sleeves 0.14 - 10 mm ²	K3016K

K 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 mm ²
Crimping range yellow insulation sleeve	0.1 - 0.4 mm ²
Length	195 mm
Weight	0.38 kg

Item	Part No.
Crimping tool for insulated cable connections 0.1 - 1 mm ²	K80
Accessories	Part No.
Steel carrying case	SK43L



K 82 A Crimping tool for insulated cable connections 0.5 - 6 mm²



- ▶ With additional locator to ensure a precise crimp connection
- ▶ 33 % less effort
- ▶ 3-Component handle grip
- ▶ Optimised material quality for a long service life
- ▶ Precise pre-tension setting maintains constant crimp performance

Characteristics

- Less effort required due to new mechanical lever system
- 3C handle: YELLOW: hard core for force transmission, BLUE: soft ergonomic grip area, GREY: soft slip protection
- Easy handling thanks to reduced tool opening width, optimum ergonomics due to the position of the palms and fingers, which is gentle on the joints
- Crimping of conductor and insulation in one step

Technical data

Crimping range red insulation sleeve	0.5 - 1.0 mm ²

Crimping range blue insulation sleeve	1.5 - 2.5 mm ²

Crimping range yellow insulation sleeve	4.0 - 6.0 mm ²

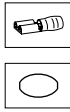
Length	225 mm

Weight	0.53 kg

Item	Part No.
Crimping tool for insulated cable connections 0.5 - 6 mm ²	K82A
Accessories	Part No.
Steel carrying case	MK230L
Variants	Part No.
Plastic assortment box with insl. cable connections and crimping tool	SK82S
Plastic assortment box with insl. cable connections and tools	SK82P

K 82 T Crimping tool for insulated cable connections 0.5 - 6 mm²

NEW



- ▶ With additional locator to ensure a precise crimp connection
- ▶ Also suitable for the processing of insulated connectors with vibration protection
- ▶ 33 % less effort
- ▶ 3-Component handle grip
- ▶ Optimised material quality for a long service life
- ▶ Precise pre-tension setting maintains constant crimp performance

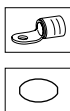
Characteristics

- Less effort required due to new mechanical lever system
- 3C handle: YELLOW: hard core for force transmission, BLUE: soft ergonomic grip area, GREY: soft slip protection
- Easy handling thanks to reduced tool opening width, optimum ergonomics due to the position of the palms and fingers, which is gentle on the joints
- Crimping of conductor and insulation in one step
- Extremely high voltage protection due to special crimping of the cable insulation (diamond crimp)

Technical data

Crimping range red insulation sleeve	0.5 - 1.0 mm ²
Crimping range blue insulation sleeve	1.5 - 2.5 mm ²
Crimping range yellow insulation sleeve	4.0 - 6.0 mm ²
Length	225 mm
Weight	0.53 kg
Item	Part No.
Crimping tool for insulated cable connections 0.5 - 6 mm ²	K82T
Accessories	Part No.
Steel carrying case	MK230L
Variants	Part No.
Plastic assortment box with insl. cable connections and crimping tool	SK82S
Plastic assortment box with insl. cable connections and tools	SK82P

K 16 Crimping tool for insulated solderless terminals 10 + 16 mm²



- ▶ Oval crimping
- ▶ Crimping tool also for meter connections

Characteristics

- With ratchet for consistently-controlled crimp results
- Colour-coded cross-section assignment

Technical data

Crimping range red insulation sleeve	10 mm ²
Crimping range blue insulation sleeve	16 mm ²
Length	305 mm
Weight	0.61 kg
Item	Part No.
Crimping tool for insulated solderless terminals 10 + 16 mm ²	K16
Accessories	Part No.
Steel carrying case	SK4L



Crimping

Mechanical crimping tools

K 58/2 Crimping tool for non-insulated tabs and receptacles 4.8 mm; 0.5 - 2.5 mm²



- ▶ Roll crimping
- ▶ Crimping of conductor and insulation in one step
- ▶ Tool pre-tensioning adjustable

Characteristics

- Simple and quick due to spring-actuated tool opening
- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Adjusting disc for compensating for the natural tool wear

Suitable for

- Tabs with 4.8 mm tab width

Technical data

Crimping range	0.5 - 2.5 mm ²
Length	220 mm
Weight	0.55 kg

Item	Part No.
Crimping tool for non-insulated tabs and receptacles 4.8 mm; 0.5 - 2.5 mm ²	K582

K 59/2 Crimping tool for non-insulated tabs and receptacles 6.3 mm; 0.5 - 6 mm²



- ▶ Roll crimping
- ▶ Crimping of conductor and insulation in one step
- ▶ Tool pre-tensioning adjustable

Characteristics

- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Simple and quick due to spring-actuated tool opening
- Adjusting disc for compensating for the natural tool wear

Suitable for

- Tabs with 6.3 mm tab width

Technical data

Crimping range	0.5 - 6 mm ²
Length	220 mm
Weight	0.51 kg

Item	Part No.
Crimping tool for non-insulated tabs and receptacles 6.3 mm; 0.5 - 6 mm ²	K592

K 93 Crimping tool for connectors for solid conductors 1.5 - 4 mm²



- ▶ Hexagonal crimping
- ▶ Tool pre-tensioning adjustable

Characteristics

- Accurate drive
- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Handle with slip guard and inscription panel
- Adjusting disc for compensating for the natural tool wear

Technical data

Crimping range 1.5 - 4 mm²

Length 220 mm

Weight 0.56 kg

Item	Part No.
Crimping tool for connectors for solid conductors 1.5 - 4 mm ²	K93

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



- ▶ Hexagonal crimping
- ▶ Tool pre-tensioning adjustable

Characteristics

- Accurate drive
- With ratchet for consistently-controlled crimp results
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the crimping tool
- Handle with slip guard and inscription panel
- Adjusting disc for compensating for the natural tool wear

Technical data

Crimping range 6 - 10 mm²

Length 220 mm

Weight 0.56 kg

Item	Part No.
Crimping tool for tubular cable lugs and connectors for solid conductors 6 - 10 mm ²	K94



Crimping

Mechanical crimping tools

K 2 Crimping tool for tubular cable lugs and connectors, standard type 0.75 - 16 mm²



- ▶ Indent crimping
- ▶ Ideal crimping tool with spring-actuated tool opening

Characteristics

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

Technical data	
Crimping range	0.75 - 16 mm ²
Length	325 mm
Weight	0.6 kg
Item	Part No.
Crimping tool for tubular cable lugs and connectors, standard type 0.75 - 16 mm ²	K2
Accessories	Part No.
Steel carrying case	SK4L

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 mm ²
Length	325 mm
Weight	0.6 kg
Item	Part No.
Crimping tool for tubular cable lugs and connectors for solid conductors 0.75 - 16 mm ²	K02
Accessories	Part No.
Steel carrying case	SK4L

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 EN 60228 Cl. 2 to 6 mm²

Characteristics

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

Technical data	
Crimping range	0.5 - 16 mm ²
Length	325 mm
Weight	0.6 kg
Item	Part No.
Crimping tool 0.5 - 16 mm ²	K25
Accessories	Part No.
Steel carrying case	SK4L

K 95 Crimping tool 16 - 95 mm²



- ▶ Indent crimping

Characteristics

- For smaller copper conductors
- Optimised force transmission

Suitable for

- Tubular cable-lugs and connectors, standard type
- Tubular cable lugs and connectors for fine-stranded conductors
- Solderless terminals DIN 46234, pin terminals DIN 46230

Technical data	
Crimping range	16 - 95 mm ²
Length	630 mm
Weight	3.6 kg
Item	Part No.
Crimping tool 16 - 95 mm ²	K95



Crimping

Mechanical crimping tools

K 5 Crimping tools 6 - 50 mm²



- ▶ Indent crimping
- ▶ Low-maintenance mechanical drive

Characteristics

- For smaller copper conductors
- Simple and safe: Exact cross-section assignment thanks to permanent marking on the dies

Suitable for

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

Technical data

Crimping range	6 - 50 mm ²
Length	600 mm
Weight	2.4 kg

Item	Part No.
Crimping tool 6 - 50 mm ²	K5

K 05 WF Crimping tools for cable end-sleeves and twin cable end-sleeves 25 - 95 and 2 x 16 mm²



- ▶ Easy operation thanks to pre-tensioning using additional lever
- ▶ Optimal use for connection in plug-in and screw-type terminal blocks
- ▶ High compression thanks to square crimp
- ▶ Reduction of crimps due to an increased crimp width

Eigenschaften

- Square crimping
- Modern, rigid and lightweight elliptical handle tubes
- Ergonomic 2-component handle with two-sided slip guard
- Energy-saving and effortless tool mechanics
- High durability

Technical data

Part No.	K05WF50	K05WF95
Crimping range cable end-sleeve	25 - 50 mm ²	50 - 95 mm ²
Crimping range twin cable end-sleeve	2 x 16 mm ²	-
Length	433 mm	433 mm
Weight	1.6 kg	1.6 kg

Item	Part No.
Crimping tools for cable end-sleeves and twin cable end-sleeves 25 - 50 and 2 x 16 mm ²	K05WF50
Crimping tool for cable end-sleeves 50 - 95 mm ²	K05WF95
Accessories	Part No.
Crimping die AE for cable end-sleeves and twin cable end-sleeves 25 - 50 and 2 x 16 mm ²	AE512550
Crimping die AE for cable end-sleeves 50 - 95 mm ²	AE515095

K 05 / K 05 D Syncro Crimping tools for tubular cable lugs and connectors, standard type 6 - 50 mm² 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

Characteristics

- Hexagonal crimping
- Precisely synchronised head plate position for optimum and consistent crimp results
- Modern, rigid and lightweight elliptical handle tubes
- Ergonomic 2-component handle with two-sided slip guard
- Smooth-running, durable and effortless tool mechanism

Technical data

Crimping range	6 - 50 mm ²
Length	390 mm
Weight	1.1 kg

Item	Part No.
Syncro Crimping tool for tubular cable lugs and connectors, standard type 6 - 50 mm ²	K05
Syncro Crimping tool for compression cable lugs and connectors (DIN 46235 / DIN 46267, Part 1) 6 - 50 mm ²	K05D
Variants	Part No.
Steel assortment box with tubular cable lugs 6 - 50 mm ² and crimping tool K05	SK65B
L-BOXX from plastic with standard equipment for electrical installations	LBOXX65B
Steel assortment box with DIN compression cable lugs and crimping tool	SK50B
L-BOXX from plastic with standard equipment for electrical installations	LBOXX50B

K 06 Syncro Crimping tools for tubular cable lugs and connectors, standard type 6 - 120 mm²



- ▶ Unique with extra large crimping range
- ▶ Hexagonal crimping
- ▶ Faster, safer and synchronous cross-section adjustment
- ▶ Ergonomic design
- ▶ Extremely light and rigid

Characteristics

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

Technical data

Crimping range	6 - 120 mm ²
Length	600 - 750 mm
Weight	2.6 kg

Item	Part No.
Syncro Crimping tools for tubular cable lugs and connectors, standard type 10 - 120 mm ²	K06



Crimping

Mechanical crimping tools

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 mm ²	K06D

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 mm ²	K09

K 09 D Syncro Crimping tools for DIN compression cable lugs and connectors, 25 - 150 mm²



- ▶ Unique with extra large crimping range
- ▶ Hexagonal crimping
- ▶ Faster, safer and synchronous cross-section adjustment
- ▶ Ergonomic design
- ▶ Extremely light and rigid

Characteristics

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

Technical data

Crimping range	25 - 150 mm ²
Length	600 - 750 mm
Weight	2.9 kg

Item	Part No.
Syncro Crimping tool for compression cable lugs and connectors (DIN 46235 / DIN 46267, Part 1) 25 - 150 mm ²	K09D

DN-K 74/2 Crimping tool for BNC connectors and coax cable



- ▶ Hexagonal crimping
- ▶ Tool pre-tensioning adjustable

Characteristics

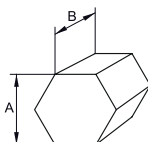
- With ratchet for consistently-controlled crimp results
- Adjusting disc for compensating for the natural tool wear

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



Crimping

Mechanical crimping tools

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.
Crimping die for insulated connectors, 0.5 - 6 mm ²	IS5071
Crimping dies for cable end-sleeves, 0.5 - 6 mm ²	AE5071
Crimping die for insulated connectors 0.5 - 10 mm ²	Q5071
Variants	Art. -Nr.
Steel assortment box with insl. cable connections and crimping tool	MK230B507
L-BOXX from plastic with standard equipment for electrical installations	LBOXX230B

K 507 Crimping tool with interchangeable dies



- ▶ Large cross section 0,5 - 50 mm²
- ▶ One crimping profile for all common conductors
- ▶ Fast, easy replacement of crimping dies
- ▶ Fewer pressures due to optimal crimping die width

Characteristics

- With ratchet for consistently controlled crimp results
- Adjusting disc to compensate for the natural tool wear

Additional information

- Optionally available crimping die for twin cable-end sleeves

Technical data

Length 220 mm

Weight 0.657 kg

Item	Part No.
Crimping tool with interchangeable dies	K507WF
Scope of supply	Part No.
Crimping dies for cable-end sleeves, 0,5 - 6 mm ²	AE5071
Crimping dies for cable end-sleeves, 10 - 25 mm ²	AE5072
Crimping dies for cable end-sleeves, 35 - 50 mm ²	AE5073
Accessories	Part No.
Crimping dies for twin cable end-sleeves, 2x6 - 2x16 mm ²	ZAE5072

K 50 Crimping tool for interchangeable dies

K50
SERIE



- ▶ Parallel guided crimping jaws
- ▶ Fast change of crimping die without readjustment by special fixing system
- ▶ Exact positioning of the crimping dies due to die locating pins

Characteristics

- Optimised force transmission
- With ratchet for consistently-controlled crimp results
- Handle with slip guard and inscription panel

Technical data

Length 220 mm

Weight 0.6 kg

Item	Part No.
Crimping tool for interchangeable dies 0.1 - 50 mm ²	K50
Accessories	Part No.
Steel carrying case	MK55

Available dies for Series 50 for K 50

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type		0,75 - 10		2.82
Tubular cable lugs, Cu, standard type		6 - 25		2.82
Tubular cable lugs and connectors for solid conductors, Cu		1,5 - 10		2.82
Compression cable lugs and connectors acc. to DIN - Cu				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1)		6 - 25		2.82
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		2.82
Insulated solderless terminals and connectors		10 - 16		2.83
Cable end-sleeves				
Cable end-sleeves		0,5 - 50		2.82
Twin cable end-sleeves		2 x 6 - 2 x 16		2.83
Cable connections, insulated and non-insulated				
Insulated cable connections, single crimping		0,5 - 16		2.83
Insulated cable connections, double crimping		0,1 - 6		2.83
Non insulated receptacles		0,25 - 6		2.83
for pin and shielded receptacles, BNC connectors for coax cables RG 58, 59, 60 and 71				2.83
Turned pin connectors, pin receptacles		0,1 - 4		2.83



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 mm ²	K354
Accessories	Part No.
Steel carrying case	SK65L

Available dies for Series 4 for K 35/4

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 150		2.84
Insulated cable lugs and compression joints, standard type, insulated pin terminals		10 - 70		2.84
Tubular cable lugs and connectors for fine stranded conductors		10 - 35		2.84
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors, indent crimp		1.5 - 2.5		2.85
Stainless steel tubular cable lugs and connectors, double indent crimp		4 - 16		2.85
Nickel tubular cable lugs and connectors, indent crimp		1.5 - 2.5		2.85
Nickel tubular cable lugs and connectors, double indent crimp		4 - 16		2.85
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		2.85
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 35		2.85
Insulated solderless terminals and connectors		10 - 16		2.85
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		16 sm - 150 se / 120 sm		2.86
Aluminium compression cable lugs and connectors acc. to DIN				
Aluminium compression cable lugs and connectors to DIN		10 rm/sm, 95 re/se		2.86
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies HA4, copper side of aluminum/copper compression cable lugs and connectors: crimping dies HD4		10 rm/sm, 95 re/se		2.86
Clamps				
Clamps, C-type		10 - 35		2.86
Cable end-sleeves				
Cable end-sleeves		10 - 50		2.86



K 22 Crimping tool for interchangeable dies 6 - 300 mm²



- ▶ Change of crimping dies without tools
- ▶ Optimised for cable glands and control cabinet construction
- ▶ Energy-efficient and low-maintenance mechanical drive

Characteristics

- Narrow crimping
- Large cross section by half shell dies
- Less effort due to extendible telescopic handle
- Flip top style head rotates 360°
- Fast, change of crimping die without readjustment by special fixing system

Technical data

Length Stepless 560-860 mm

Weight 2.5 kg

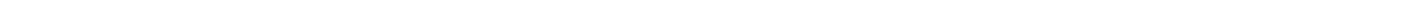
Item	Part No.
Crimping tool for interchangeable dies 6 - 300 mm ²	K22

Accessories	Part No.
Steel carrying case	MK22

Available dies for Series 22 for K 22

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

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 300		2.87
Insulated cable lugs and compression joints, standard type, insulated pin terminals		10 - 150		2.87
Tubular cable lugs and connectors for fine stranded conductors		10 - 70		2.88
Tubular cable lugs and connectors for solid conductors		1.5 - 16		2.88
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		10 - 50		2.88
Nickel tubular cable lugs and connectors		10 - 50		2.88
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		2.88
Double compression cable lugs		2 x 70		2.88
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		2.89
Insulated solderless terminals and connectors		10 - 70		2.89
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		2.89
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10 sm - 300 se / 300 sm		2.89
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 sm - 300 se / 300 sm		2.89
Clamps				
Clamps, C-type		10 - 70		2.90
Clamps, H-type		70		2.90
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.90



THE LITTLE CRIMPING EXPERT - BATTERY-POWERED HYDRAULIC CRIMPING TOOL (10.8 V)

We have made performance easy: The Klauke mini is light-weight yet powerful. The Klauke mini's practical dimensions make it the ideal solution for confined areas, in panel building for instance. A convenient expert for crimp to 150 mm² nominal cross-section.

Klauke *mini*

► Pure performance without frills

The Klauke mini concentrates on its core task: reliable crimping. Even without pressure sensor and display, the little expert does its job well - no fuss or quibble.

► Usage time at a glance

Read the charge level at any time from the powerful 10.8 V battery.

► All-round crimping

How can confined areas be easily reached? With crimping heads rotating through 360°.





Crimping

Battery powered hydraulic crimping tools 10.8 V

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 EN 60228

Technical data	
Crimping force	30 kN
Stroke / opening width	22 mm
Crimping range	6 - 120 mm ²
Crimping cycle	2,5 s up to 5 s (depending on crimp cross-section)
Charging time	45 min.
Weight incl. battery	1.95 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No.
Battery powered hydraulic crimping tool 6 - 120 mm ²	EK30IDML
Scope of supply	
Battery 10.8 V / 2.5 Ah, Li-Ion (27 Wh)	RAML1225
Charger for 10.8 V Li-Ion batteries, 230V	LGML1
Plastic case	KKML

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 120	
Tubular cable lugs and connectors for fine stranded conductors		6 - 120	
Terminals, connectors and pin terminals acc. to DIN, copper			
Solderless terminals (DIN 46234), connectors (DIN 46341) and pin terminals (DIN 46230)		6 - 95	

EK WF 120 ML Battery powered hydraulic crimping tool 6 - 120 mm²



- ▶ Innovative square crimping - no change of crimping dies required
- ▶ Only one crimp necessary (up to a cable end-sleeve length of 32 mm)
- ▶ Powerful 10.8 V Li-Ion battery technology with battery charge indicator

Characteristics

- Closed crimping head
- 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
- Simple and safe: Automatic retraction when operation is complete
- Manual retraction stop (MRS) for positioning control for multiple crimps
- Maintenance display via LED

Suitable for

- Cable end-sleeves acc. to DIN, insulated cable end-sleeves and insulated twin cable end-sleeves

Technical data	
Crimping force	10 / 40 kN
Stroke / opening width	19 mm
Crimping range	6 - 120 mm ²
Crimping cycle	1 s up to 5 s (depending on cross-section)
Battery voltage	10.8 V
Battery capacity	2.5 Ah, Li-Ion
Charging time	approx. 45 min.
Weight incl. battery	1.96 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No.
Battery powered hydraulic crimping tool 6 - 120 mm ²	EKWF120ML
Scope of supply	Part No.
Battery 10.8 V / 2.5 Ah, Li-Ion (27 Wh)	RAML1225
Charger for 10.8 V Li-Ion batteries, 230V	LGML1
Plastic case	KKML

suitable for	Connection material	Crimping range mm ²	Crimp profile
Cable end-sleeves			
Cable end-sleeves		6 - 120	
Twin cable end-sleeves		6 - 120	



Crimping

Battery powered hydraulic crimping tools

EK 35/4 ML Battery powered hydraulic crimping tool 6 - 150 mm²



- ▶ Large cross section range up to 150 mm²
- ▶ Slim crimping head - ideal when space is critical
- ▶ Powerful 10.8 V Li-Ion battery technology with battery charge indicator

Characteristics

- Closed head, flip top style, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Comfortable and secure one-hand operation thanks to 2-component plastic housing with soft grips
- Effortless working thanks to low weight
- Simple and safe: Automatic retraction when operation is complete
- Maintenance display via LED

Suitable for

- 4-series interchangeable dies, narrow crimping

Technical data

Crimping force	35 kN
Stroke / opening width	9 mm
Crimping range	6 - 150 mm ²
Crimping cycle	3 s to 4 s (depending on crimp cross-section)
Number of crimps	approx. 200 at 120 mm ² Cu
Battery voltage	10.8 V
Battery capacity	21.5 Ah, Li-Ion
Charging time	approx. 45 min.
Weight incl. battery	1.6 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No.
Battery powered hydraulic crimping tool 6 - 150 mm ²	EK354ML
Scope of supply	Part No.
Battery 10.8 V / 2.5 Ah, Li-Ion (27 Wh)	RAML1225
Charger for 10.8 V Li-Ion batteries, 230 V	LGML1
Plastic case	KKML
Variants	Part No.
EK 35/4 ML with crimping die set HR 4 from 6 - 150 mm ²	EK354MLSETHR
EK 35/4 ML with crimping die set HD 4 from 6 - 120 mm ²	EK354MLSETHD

Available dies for Series 4 for K 35/4 ML

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 150		2.84
Insulated cable lugs and compression joints, standard type, insulated pin terminals		10 - 70		2.84
Tubular cable lugs and connectors for fine stranded conductors		10 - 35		2.84
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors, indent crimp		1.5 - 2.5		2.85
Stainless steel tubular cable lugs and connectors, double indent crimp		4 - 16		2.85
Nickel tubular cable lugs and connectors, indent crimp		1.5 - 2.5		2.85
Nickel tubular cable lugs and connectors, double indent crimp		4 - 16		2.85
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		2.85
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 35		2.85
Insulated solderless terminals and connectors		10 - 16		2.85
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		16 sm - 150 se / 120 sm		2.86
Aluminium compression cable lugs and connectors acc. to DIN				
Aluminium compression cable lugs and connectors to DIN		10 rm/sm, 95 re/se		2.86
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies HA4, copper side of aluminum/copper compression cable lugs and connectors: crimping dies HD4		10 rm/sm, 95 re/se		2.86
Clamps				
Clamps, C-type		10 - 35		2.86
Cable end-sleeves				
Cable end-sleeves		10 - 50		2.86



THE NEW STANDARD - KLAUKE NEXT GENERATION CRIMPING TOOLS

To guarantee the quality, you can check the tool data from the display or via Klauke Link® 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



► 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 Link® App - now simply and conveniently connect the tool to the computer via Bluetooth.



► Klauke Link® App

Connectivity is the generic term for the digital application that Klauke is making available to its customers in addition to its tools – the new Klauke Link® App. This application offers you new possibilities with all Klauke Next Generation tools.

The Klauke Link® App can be found at:
<https://www.klauke.com/de/en/klauke-link-connectivity>



► Klauke Link® App

Show your customers how well you work. Klauke Next Generation records your operations, and these can then be transmitted by Bluetooth. The free Klauke Link® 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.





Crimping

Battery powered hydraulic crimping tools

EK 35/4 Battery powered hydraulic crimping tool 6 - 150 mm²

**NEXT
GENERATION**



- ▶ Large cross section range up to 150 mm²
- ▶ Slim crimping head - ideal when space is critical
- ▶ All tool data in view thanks to display and Klauke Link® App

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head, flip top style, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Simple and safe: Automatic retraction when operation is complete
- Effortless working thanks to low weight
- LED for work area illumination
- Always ready-to-use thanks to battery charge and service display

Suitable for

- 4-series interchangeable dies, narrow crimping



**K4
SERIE**

Technical data

Crimping force 35 kN

Stroke / opening width 9 mm

Crimping range 6 - 150 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 mm ²	EK354CFB	EK354CFM
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 battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2
Variants		
L-BOXX with battery powered crimping tool EK354CFB, 6 - 150 mm ²	LBOXXEK354CFB	
L-BOXX with battery powered crimping tool EK354CFM, 6 - 150 mm ²		LBOXXEK354CFM

Available dies for Series 4 for K 35/4

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 150		2.84
Insulated cable lugs and compression joints, standard type, insulated pin terminals		10 - 70		2.84
Tubular cable lugs and connectors for fine stranded conductors		10 - 35		2.84
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors, indent crimp		1.5 - 2.5		2.85
Stainless steel tubular cable lugs and connectors, double indent crimp		4 - 16		2.85
Nickel tubular cable lugs and connectors, indent crimp		1.5 - 2.5		2.85
Nickel tubular cable lugs and connectors, double indent crimp		4 - 16		2.85
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		2.85
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 35		2.85
Insulated solderless terminals and connectors		10 - 16		2.85
Sleeves for compacted conductors and sector-shaped conductors, copper				
Pre-rounding dies for sector-shaped Al and Cu conductors		16 sm - 150 se / 120 sm		2.86
Aluminium compression cable lugs and connectors acc. to DIN				
Aluminium compression cable lugs and connectors to DIN		10 rm/sm, 95 re/se		2.86
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminum/copper compression cable lugs and connectors: crimping dies HA4, copper side of aluminum/copper compression cable lugs and connectors: crimping dies HD4		10 rm/sm, 95 re/se		2.86
Clamps				
Clamps, C-type		10 - 35		2.86
Cable end-sleeves				
Cable end-sleeves		10 - 50		2.86



Crimping

Battery powered hydraulic crimping tools

EKM 60/22 Battery powered hydraulic crimping tool 6 - 300 mm²

**NEXT
GENERATION**



- ▶ Large crimping range up to 300 mm²
- ▶ All tool data in view thanks to display and Klauke Link® 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



**K22
SERIE**

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		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Plastic case	KK50NG	
Makita battery 18 V / 1.5 Ah, Li-Ion	RAL1	
Makita quick-charger for 18 V Li-Ion battery	LGL1	
Plastic case	KK50L	
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40	
Variants		
L-BOXX with battery powered crimping tool EKM6022CFB, 6 - 300 mm²	LBOXXEKM6022CFB	
L-BOXX with battery powered crimping tool EKM6022CFM, 6 - 300 mm²	LBOXXEKM6022CFM	

Available dies for Series 22 for EKM 60/22

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

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 300		2.87
Insulated cable lugs and compression joints, standard type, insulated pin terminals		10 - 150		2.87
Tubular cable lugs and connectors for fine stranded conductors		10 - 70		2.88
Tubular cable lugs and connectors for solid conductors		1.5 - 16		2.88
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		10 - 50		2.88
Nickel tubular cable lugs and connectors		10 - 50		2.88
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		2.88
Double compression cable lugs		2 x 70		2.88
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		2.89
Insulated solderless terminals and connectors		10 - 70		2.89
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		2.89
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10 sm - 300 se / 300 sm		2.89
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 sm - 300 se / 300 sm		2.89
Clamps				
Clamps, C-type		10 - 70		2.90
Clamps, H-type		70		2.90
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.90

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 Klauke Link® App

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head, flip top style, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display

Suitable for

- 22-series interchangeable dies, narrow crimping



**K22
SERIE**

Technical data

Crimping force	60 kN
Hub	17 mm
Crimping range	6 - 300 mm ²
Crimping cycle	3 s to 5 s (depending on crimp cross-section)
Charging time	45 min.
Weight incl. battery	4.4 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic crimping tool 6 - 300 mm ²	EK6022CFB	EK6022CFM
Scope of supply		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK120NG	KK120NG
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Item	Part No.	
EK 60/22 with crimping die set D 22 from 16 - 240 mm ²	EK6022CFMSETD	
EK 60/22 with crimping die set R 22 from 16 - 240 mm ²	EK6022CFMSETR	

Available dies for Series 22 for EK 60/22

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

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 300		2.87
Insulated cable lugs and compression joints, standard type, insulated pin terminals		10 - 150		2.87
Tubular cable lugs and connectors for fine stranded conductors		10 - 70		2.88
Tubular cable lugs and connectors for solid conductors		1.5 - 16		2.88
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		10 - 50		2.88
Nickel tubular cable lugs and connectors		10 - 50		2.88
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		2.88
Double compression cable lugs		2 x 70		2.88
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		2.89
Insulated solderless terminals and connectors		10 - 70		2.89
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		2.89
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10 sm - 300 se / 300 sm		2.89
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 sm - 300 se / 300 sm		2.89
Clamps				
Clamps, C-type		10 - 70		2.90
Clamps, H-type		70		2.90
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.90



Crimping

Battery powered hydraulic crimping tools

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 Klauke Link® App

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Quad-point indent crimping feature with patented centring system, no dies required
- Open head, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Always ready-to-use thanks to battery charge and service display

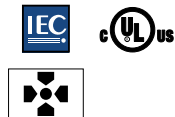
Technical data

Crimping force	55 kN
Crimping range	10 - 240 mm ²
Crimping cycle	3 s to 6 s (depending on crimp cross-section)
Charging time	45 min.
Weight incl. battery	5.0 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic crimping tool 10 - 240 mm ²	EK60VPCFB	EK60VPCFM
Scope of supply		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK120NG	KK120NG
Accessories		
Gauge and 10 Test cylinder	TS10B	TS10B

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs, standard type, tubular cable lugs for switchgear connections		10-240	
Connectors, standard type		10-120	
Tubular cable lugs for fine stranded conductors		10-240	
Connectors for fine stranded conductors		10-95	

EK 60 VP/FT Battery powered hydraulic crimping tool 16 - 300 mm²



- ▶ 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 Klauke Link® App

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Quad-point indent crimping feature with patented centring system, no dies required
- Closed head with bolt interlock, rotatable, flip top style
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display

Technical data		
Crimping force	55 kN	
Crimping range	16 - 300 mm ²	
Crimping cycle	3 s to 6 s (depending on crimp cross-section)	
Charging time	45 min.	
Weight incl. battery	5.1 kg	
Ambient temperature	-10 °C up to +40 °C	
Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic crimping tool 16 - 300 mm ²	EK60VPFTCFB	EK60VPFTCFM
Scope of supply		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK120NG	KK120NG
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Tubular cable lugs and connectors - Cu			
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		16-300	
Tubular cable lugs and connectors for fine stranded conductors		16-300	



Crimping

Battery powered hydraulic crimping tools

EKM 60 ID Battery powered hydraulic crimping tool 10 - 240 mm²

**NEXT
GENERATION**



- ▶ Extra large crimping area due to innovative 2-stage telescopic cylinder
- ▶ Indent crimping - no changing of dies required
- ▶ All tool data in view thanks to display and Klauke Link® 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 EN 60228
- Certified from 16 mm² onwards



Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, Tubular cable lugs for switch gear connections		10 - 240	
Tubular cable lugs and connectors for fine stranded conductors		10 - 240	
Terminals, connectors and pin terminals acc. to DIN			
Solderless terminals (DIN 46234) connectors and pin terminals (DIN 46230, DIN 46341)		10 - 240	
Aluminum compression cable lugs and connectors			
Aluminum compression cable lugs and connectors acc. to DIN		50 - 240	
Aluminum/copper compression cable lugs and connectors			
Aluminum/copper compression cable lugs and connectors		50 - 240	

Technical data

Crimping force	30 - 60 kN
Stroke / opening width	40.5 mm
Crimping range Cu	10 - 240 mm ²
Crimping range Al	50 - 240 mm ²
Crimping cycle	2 s (for ARS) to 7 s (depending on cross-section)
Charging time	15 min.
Weight incl. battery	2.5 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic crimping tool 10 - 240 mm ²	EKM60IDCFB	EKM60IDCFM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
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 battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Variants		
L-BOXX with battery powered crimping tool EKM60IDCFB, 10 - 240 mm ²	LBOXXEKM60IDCFB	
L-BOXX with battery powered crimping tool EKM60IDCFM, 10 - 240 mm ²		LBOXXEKM60IDCFM

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 Klauke Link® App

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head, flip top style, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display

Technical data

Crimping force	108 kN
Stroke / opening width	52 mm
Crimping range	35 - 500 mm ²
Crimping cycle	10 s to 11 s (depending on crimp cross-section)
Charging time	45 min.
Weight incl. battery	7.0 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic crimping tool 35 - 500 mm ²	EK120IDCFB	EK120IDCFM
Scope of supply		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK120NG	KK120NG
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, Tubular cable lugs for switch gear connections		70 - 185	
Tubular cable lugs and connectors for fine stranded conductors		70 - 240	
Terminals, connectors and pin terminals acc. to DIN			
Solderless terminals (DIN 46234) connectors and pin terminals (DIN 46230, DIN 46341)		95 - 500	



Crimping

Battery powered hydraulic crimping tools

EK 120/32 Battery powered hydraulic crimping tool 16 - 400 mm²

**NEXT
GENERATION**



**K13
SERIE**

- ▶ 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 Klauke Link® 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 mm ²	
Crimping cycle	7 s to 8 s (depending on crimp cross-section)	
Charging time	45 min.	
Weight incl. battery	6.8 kg	
Ambient temperature	-10° C up to +40 °C	
Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic crimping tool 16 - 400 mm ²	EK12032CFB	EK12032CFM
Scope of supply		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK120NG	KK120NG
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 13 for EK 120/32

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		2.91
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		2.92
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		2.92
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		16 - 50		2.92
Tubular cable lugs and connectors – VA		70 - 95		2.92
Tubular cable lugs and connectors - Ni		16 - 50		2.92
Tubular cable lugs and connectors - Ni		70 - 95		2.92
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		10 - 300		2.92
Double compression cable lugs		2 x 50 - 2 x 120		2.93
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		16 - 150		2.93
Insulated terminals and pin terminals		10 - 95		2.93
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		2.93
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10 sm - 300 re/see		2.94
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10 sm - 300 re/se		2.94
Clamps				
Clamps, C-type		10 - 70		2.94
Clamps H-type		70 - 120		2.94
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.94



Crimping

Battery powered hydraulic crimping tools

EK 120/42 Battery powered hydraulic crimping tool 16 - 400 mm²

**NEXT
GENERATION**



**K13
SERIE**

- ▶ 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 Klauke Link® 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 mm ²	
Crimping cycle	8 s to 9 s (depending on crimp cross-section)	
Charging time	45 min.	
Weight incl. battery	7.1 kg	
Ambient temperature	-10 °C up to +40 °C	
Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic crimping tool 16 - 400 mm ²	EK12042CFB	EK12042CFM
Scope of supply		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK120NG	KK120NG
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 13 for EK 120/42

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		2.91
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		2.92
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		2.92
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		16 - 50		2.92
Tubular cable lugs and connectors – VA		70 - 95		2.92
Tubular cable lugs and connectors - Ni		16 - 50		2.92
Tubular cable lugs and connectors - Ni		70 - 95		2.92
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		10 - 300		2.92
Double compression cable lugs		2 x 50 - 2 x 120		2.93
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		16 - 150		2.93
Insulated terminals and pin terminals		10 - 95		2.93
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		2.93
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10 sm - 300 re/see		2.94
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10 sm - 300 re/se		2.94
Clamps				
Clamps, C-type		10 - 70		2.94
Clamps H-type		70 - 120		2.94
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.94



Crimping

Battery powered hydraulic crimping tools

EK 120 U Battery powered hydraulic crimping tool 16 - 400 mm²

**NEXT
GENERATION**



**K13
SERIE**



- ▶ 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 Klauke Link® 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

Technical data

Crimping force	120 kN
Stroke / opening width	20 mm
Crimping range	16 - 400 mm ²
Crimping cycle	7 s to 8 s (depending on crimp cross-section)
Charging time	45 min.
Weight incl. battery	6.2 kg
Ambient temperature	-10° C up to +40 °C

Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic crimping tool 16 - 400 mm ²	EK120UCFB	EK120UCFM
Scope of supply		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK120NG	KK120NG
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 13 for EK 120 U

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		2.91
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		2.92
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		2.92
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		16 - 50		2.92
Tubular cable lugs and connectors – VA		70 - 95		2.92
Tubular cable lugs and connectors - Ni		16 - 50		2.92
Tubular cable lugs and connectors - Ni		70 - 95		2.92
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		10 - 300		2.92
Double compression cable lugs		2 x 50 - 2 x 120		2.93
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		16 - 150		2.93
Insulated terminals and pin terminals		10 - 95		2.93
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		2.93
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10 sm - 300 re/see		2.94
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10 sm - 300 re/se		2.94
Clamps				
Clamps, C-type		10 - 70		2.94
Clamps H-type		70 - 120		2.94
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.94



Crimping

Battery powered hydraulic crimping tools

EK 135 FT Battery powered hydraulic crimping tool 10 - 630 mm²

**NEXT
GENERATION**



- ▶ Very large crimping range to 630 mm²
- ▶ Very powerful with a crimping force of 13.5 t
- ▶ All tool data in view thanks to display and Klauke Link® App

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Closed head, rotatable
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display

Suitable for

- 13-series interchangeable dies, wide crimping
- 15-series interchangeable dies, wide crimping

Technical data		
Crimping force	135 kN	
Stroke / opening width	50.8 mm	
Crimping range	10 - 630 mm ²	
Crimping cycle	ca. 10 s to 11 s (depending on cross-section)	
Charging time	45 min.	
Weight incl. battery	10.2 kg	
Ambient temperature	-10 °C up to +40 °C	
Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic crimping tool 10 - 630 mm ²	EK135FTCFB	EK135FTCFM
Scope of supply		
Adapter for crimping dies series 13	UA15T	UA15T
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK135FTNG	KK135FTNG
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 13 for EK 135 FT

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		2.91
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		2.92
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		2.92
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		16 - 50		2.92
Tubular cable lugs and connectors – VA		70 - 95		2.92
Tubular cable lugs and connectors - Ni		16 - 50		2.92
Tubular cable lugs and connectors - Ni		70 - 95		2.92
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		10 - 300		2.92
Double compression cable lugs		2 x 50 - 2 x 120		2.93
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		16 - 150		2.93
Insulated terminals and pin terminals		10 - 95		2.93
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		2.93
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10 sm - 300 re/see		2.94
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10 sm - 300 re/se		2.94
Clamps				
Clamps, C-type		10 - 70		2.94
Clamps H-type		70 - 120		2.94
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.94

See next page



Crimping

Battery powered hydraulic crimping tools

Available dies for Series 15 for EK 135 FT

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		400 - 625		2.95
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		400 - 500		2.95
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		400 - 500		2.95

USE ADAPTERS!

Please note the use of the adapter UA15T !

The adapter extends the cross-section range, as crimping dies of series 13 can also be used !

Please inform yourself !

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.



Crimping

Hand-operated hydraulic crimping tools

HK 60/22 Hand-operated hydraulic crimping tool 6 - 300 mm²



- ▶ Large crimping range up to 300 mm²
- ▶ Slim crimping head - ideal when space is critical

Characteristics

- Closed head, flip top style, rotatable
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete

Suitable for

- 22-series interchangeable dies, narrow crimping

Technical data	
Crimping force	60 kN
Stroke	17 mm
Crimping range	6 - 300 mm ²
Length	460 mm
Weight	3.3 kg
Ambient temperature	-20 °C up to +40 °C
Item	Part No.
Hand-operated hydraulic crimping tool 6 - 300 mm ²	HK6022
Scope of supply	Part No.
Steel carrying case	MK6022
Variants	Part No.
HK 60/22 with crimping die set D 22 from 16 - 240 mm ²	HK6022SETD

Available dies for Series 22 for HK 60/22

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

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 300		2.87
Insulated cable lugs and compression joints, standard type, insulated pin terminals		10 - 150		2.87
Tubular cable lugs and connectors for fine stranded conductors		10 - 70		2.88
Tubular cable lugs and connectors for solid conductors		1.5 - 16		2.88
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		10 - 50		2.88
Nickel tubular cable lugs and connectors		10 - 50		2.88
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		2.88
Double compression cable lugs		2 x 70		2.88
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		2.89
Insulated solderless terminals and connectors		10 - 70		2.89
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		2.89
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10 sm - 300 se / 300 sm		2.89
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 sm - 300 se / 300 sm		2.89
Clamps				
Clamps, C-type		10 - 70		2.90
Clamps, H-type		70		2.90
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.90



Crimping

Hand-operated hydraulic crimping tools

HK 60 VP Hand-operated hydraulic crimping head 10 - 240 mm²



- ▶ Suitable for crimping tubular cable lugs and connectors “standard type” and fine and superfine stranded conductors up to 240 mm²
- ▶ The patented centring system guarantees optimum crimps every time

Characteristics

- Quad-point indent crimping feature with patented centring system, no dies required
- Open head, rotatable
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete

Technical data

Crimping force	55 kN
Crimping range	10 - 240 mm ²
Length	525 mm
Weight	4.1 kg
Ambient temperature	-20 °C up to +40 °C

Item	Part No.
Hand-operated hydraulic crimping tool 10 - 240 mm ²	HK60VP
Scope of supply	Part No.
Steel carrying case	MK60VP
Gauge and 10 test cylinder	TS10B
Accessories	Part No.
Gauge and 10 test cylinder	TS10B

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs, standard type, tubular cable lugs for switchgear connections		10 - 240	
Connectors, standard type		10 - 120	
Tubular cable lugs for fine stranded conductors		10 - 240	
Connectors for fine stranded conductors		10 - 95	

HK 60 VP/FT Hand-operated hydraulic crimping head 16 - 300 mm²



- ▶ Suitable for crimping tubular cable lugs and connectors "standard type" and fine and superfine stranded conductors to 300 mm²
- ▶ The patented centring system guarantees optimum crimps every time
- ▶ Closed crimping head - ideal for utility lines construction

Characteristics

- Quad-point indent crimping feature with patented centring system, no dies required
- Closed head with bolt interlock, rotatable, flip top style
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete

Technical data	
Crimping force	55 kN
Crimping range	16 - 300 mm ²
Length	535 mm
Weight	4.1 kg
Ambient temperature	-20 °C up to +40 °C
Item	Part-No.
Hand-operated hydraulic crimping tool 16 - 300 mm ²	HK60VPFT
Scope of supply	Part-No.
Steel carrying case	MK60VP
Gauge and 10 test cylinder	TS10B
Accessories	Part.-No.
Gauge and 10 test cylinder	TS10B

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		16 - 300	
Tubular cable lugs and compression joints for fine stranded conductors		16 - 300	



Crimping

Hand-operated hydraulic crimping tools

HK 120/30 Hand-operated hydraulic crimping tool 16 - 400 mm²



► Very large crimping range to 400 mm²

► Up to 60% fewer crimps thanks to wide crimping in comparison to 6 t tools

Characteristics

- Open head, rotatable
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete

Suitable for

- 13-series interchangeable dies, wide crimping

Technical data	
Crimping force	120 kN
Stroke	30 mm
Crimping range	16 - 400 mm ²
Length	510 mm
Weight	5.4 kg
Ambient temperature	-20 °C up to +40 °C
Item	Part No.
Hand-operated hydraulic crimping tool 10 - 400 mm ²	HK12030
Scope of supply	Part No.
Steel carrying case	MK12042



Available dies for Series 13 for HK 120/30

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		2.91
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		2.92
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		2.92
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		16 - 50		2.92
Tubular cable lugs and connectors – VA		70 - 95		2.92
Tubular cable lugs and connectors - Ni		16 - 50		2.92
Tubular cable lugs and connectors - Ni		70 - 95		2.92
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		10 - 300		2.92
Double compression cable lugs		2 x 50 - 2 x 120		2.93
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		16 - 150		2.93
Insulated terminals and pin terminals		10 - 95		2.93
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		2.93
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10 sm - 300 re/see		2.94
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10 sm - 300 re/se		2.94
Clamps				
Clamps, C-type		10 - 70		2.94
Clamps, H-type		70 - 120		2.94
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.94



Crimping

Hand-operated hydraulic crimping tools

HK 120/42 Hand-operated hydraulic crimping tool 16 - 400 mm²



- ▶ Very large crimping range up to 400 mm²
- ▶ Up to 60% fewer crimps thanks to wide crimping in comparison to 6 t tools
- ▶ C-head with larger 42 mm jaw opening

Characteristics

- Open head, rotatable
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete

Suitable for

- 13-series interchangeable dies, wide crimping

Technical data	
Crimping force	120 kN
Stroke	42 mm
Crimping range	16 - 400 mm ²
Length	560 mm
Weight	5.9 kg
Ambient temperature	-20 °C up to +40 °C
Item	Part No.
Hand-operated hydraulic crimping tool 16 - 400 mm ²	HK12042
Scope of supply	Part No.
Steel carrying case	MK12042



Available dies for Series 13 for HK 120/42

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		2.91
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		2.92
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		2.92
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		16 - 50		2.92
Tubular cable lugs and connectors – VA		70 - 95		2.92
Tubular cable lugs and connectors - Ni		16 - 50		2.92
Tubular cable lugs and connectors - Ni		70 - 95		2.92
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		10 - 300		2.92
Double compression cable lugs		2 x 50 - 2 x 120		2.93
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		16 - 150		2.93
Insulated terminals and pin terminals		10 - 95		2.93
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		2.93
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10 sm - 300 re/see		2.94
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10 sm - 300 re/se		2.94
Clamps				
Clamps, C-type		10 - 70		2.94
Clamps, H-type		70 - 120		2.94
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.94



Crimping

Hand-operated hydraulic crimping tools

HK 120 U Hand-operated hydraulic crimping tool 16 - 400 mm²



K13
SERIE

► H-head for deep groove crimps

► Up to 60% fewer crimps thanks to wide crimping in comparison to 6 t tools

Characteristics

- Closed head, rotatable
- Light weight due to high quality aluminium housing
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete

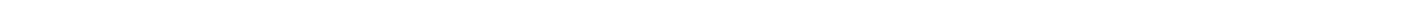
Suitable for

- 13-series interchangeable dies, wide crimping

Technical data	
Crimping force	120 kN
Stroke	20 mm
Crimping range	16 - 400 mm ²
Length	540 mm
Weight	5.2 kg
Ambient temperature	-20 °C up to +40 °C
Item	Part No.
Hand-operated hydraulic crimping tool 16 - 400 mm ²	HK120U
Scope of supply	Part No.
Steel carrying case	MK120U

Available dies for Series 13 for HK 120 U

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		2.91
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		2.92
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		2.92
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		16 - 50		2.92
Tubular cable lugs and connectors – VA		70 - 95		2.92
Tubular cable lugs and connectors - Ni		16 - 50		2.92
Tubular cable lugs and connectors - Ni		70 - 95		2.92
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		10 - 300		2.92
Double compression cable lugs		2 x 50 - 2 x 120		2.93
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		16 - 150		2.93
Insulated terminals and pin terminals		10 - 95		2.93
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		2.93
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10 sm - 300 re/see		2.94
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10 sm - 300 re/se		2.94
Clamps				
Clamps, C-type		10 - 70		2.94
Clamps, H-type		70 - 120		2.94
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.94





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 and 22 series crimping dies can also be used in the hydraulic crimping heads.

- Crimping heads for the 13 and 22 series, also for workbench mounting
- Crimping heads with a crimping force of 55 kN to 1000 kN
- Workbench tools BG-tested

► High crimping force for greater width

The crimping heads achieve a crimping force of 55 kN to 1000 kN. Allowing you to process cable lugs of up to 1600 mm².

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



Crimping

Hydraulic crimping heads and crimping systems

PK 22 Hydraulic crimping heads 6 - 300 mm²



K22
SERIE

- ▶ Large crimping range up to 300 mm²
- ▶ Slim crimping head - ideal when space is critical

Characteristics

- Closed head, flip top style, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Suitable for

- 22-series interchangeable dies, narrow crimping

Additional information

- Part Number appendix for W crimping dies (UL-tested) "W"

Technical data	
Crimping force	60 kN
Stroke / opening width	17 mm
Crimping range	6 - 300 mm ²
Operating pressure	max. 700 bar
Length	305 mm
Weight	3.0 kg
Item	Part No.
Hydraulic crimping head 6 - 300 mm ²	PK22
Scope of supply	Part No.
Carrying bag	TT2

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



K22
SERIE

- ▶ Large crimping range up to 300 mm²
- ▶ For connecting to hydraulic pumps with 700 bar operating pressure for optimum crimping results

Characteristics

- Quick coupling
- For workbench mounting
- BG-conformity version

Suitable for

- 22-series interchangeable dies, narrow crimping

Technical data	
Crimping force	60 kN
Crimping range	6 - 300 mm ²
Operating pressure	max. 700 bar
Weight	8.8 kg
Dimensions	H x W x D: 220 x 160 x 120 mm
Item	Part No.
Hydraulic crimping tool for workbench mounting 6 - 300 mm ²	THK22

Available dies for Series 22 for PK 22 and THK 22

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

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 300		2.87
Insulated cable lugs and compression joints, standard type, insulated pin terminals		10 - 150		2.87
Tubular cable lugs and connectors for fine stranded conductors		10 - 70		2.88
Tubular cable lugs and connectors for solid conductors		1.5 - 16		2.88
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		10 - 50		2.88
Nickel tubular cable lugs and connectors		10 - 50		2.88
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		2.88
Double compression cable lugs		2 x 70		2.88
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		2.89
Insulated solderless terminals and connectors		10 - 70		2.89
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		2.89
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10 sm - 300 se / 300 sm		2.89
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 sm - 300 se / 300 sm		2.89
Clamps				
Clamps, C-type		10 - 70		2.90
Clamps, H-type		70		2.90
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.90



Crimping

Hydraulic crimping heads and crimping systems

PK 60 VP Hydraulic crimping head 10 - 240 mm²



- ▶ Suitable for crimping tubular cable lugs and connectors “standard type” and fine and superfine stranded conductors up to 240 mm²
- ▶ The patented centring system guarantees optimum crimps every time
- ▶ No additional dies required

Characteristics

- Quad-point indent crimping and wide crimping
- Open head with quick coupling, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Technical data

Crimping force	55 kN
Crimping range	10 - 240 mm ²
Operating pressure	max. 700 bar
Length	305 mm
Weight	2.8 kg

Item	Part No.
Hydraulic crimping head 10 - 240 mm ²	PK60VP
Scope of supply	Part No.
Carrying bag	TT2

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs, standard type, tubular cable lugs for switchgear connections		10 - 240	
Connectors, standard type		10 - 120	
Tubular cable lugs for fine stranded conductors		10 - 240	
Connectors for fine stranded conductors		10 - 95	

PK 60 VP/FT Hydraulic crimping head 16 - 300 mm²



- ▶ Suitable for crimping tubular cable lugs and connectors “standard type” and fine and superfine stranded conductors to 300 mm²
- ▶ The patented centring system guarantees optimum crimps every time
- ▶ Closed crimping head - ideal for utility lines construction, for example

Characteristics

- Quad-point indent crimping and wide crimping
- Closed head, flip top style, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Technical data

Crimping force	55 kN
Crimping range	16 - 300 mm ²
Operating pressure	max. 700 bar
Length	315 mm
Weight	2.8 kg

Item	Part No.
Hydraulic crimping head 16 - 300 mm ²	PK60VPFT
Scope of supply	Part No.
Carrying bag	TT2

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		16 - 300	
Tubular cable lugs and connectors for fine stranded conductors		16 - 300	

PK 60 ID Hydraulic crimping head 10 - 240 mm²



- ▶ Extra large crimping area due to innovative 2-stage telescopic cylinders
- ▶ Indent crimping - no changing of dies required

Characteristics

- Closed head, flip top style, rotatable
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Technical data

Crimping force	30 - 60 kN
Stroke / opening width	40.5 mm
Crimping range copper	10 - 240 mm ²
Crimping range aluminum	50 - 240 mm ²
Operating pressure	max. 700 bar
Length	249.5 mm
Weight	approx. 2.5 kg

Item	Part No.
Hydraulic crimping head 10 - 240 mm ²	PK60ID
Scope of supply	Part No.
Carrying bag	TT2

Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, Tubular cable lugs for switch gear connections		10 - 240	
Tubular cable lugs and connectors for fine stranded conductors		10 - 240	
Terminals, connectors and pin terminals acc. to DIN			
Solderless terminals (DIN 46234) connectors and pin terminals (DIN 46230, DIN 46341)		10 - 240	
Aluminum compression cable lugs and connectors			
Aluminum compression cable lugs and connectors acc. to DIN		50 - 240	
Aluminum/copper compression cable lugs and connectors			
Aluminum/copper compression cable lugs and connectors		50 - 240	



Crimping

Hydraulic crimping heads and crimping systems

PK 120/42 Hydraulic crimping head 10 - 400 mm²



K13
SERIE

- ▶ Large crimping range up to 400 mm²
- ▶ C-head with larger 42 mm jaw opening
- ▶ Up to 60% fewer crimps thanks to wide crimping in comparison to narrow crimping

Characteristics

- Head with quick coupling, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Suitable for

- 13-series interchangeable dies, wide crimping

Technical data	
Crimping force	120 kN
Stroke / opening width	42 mm
Crimping range	10 - 400 mm ²
Operating pressure	max. 700 bar
Length	335 mm
Weight	4.5 kg
Item	Part No.
Hydraulic crimping head 10 - 400 mm ²	PK12042
Scope of supply	Part No.
Carrying bag	TT2

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



K13
SERIE

- ▶ Large crimping range up to 400 mm²
- ▶ For workbench mounting
- ▶ BG-compliant version
- ▶ Up to 60% fewer crimps thanks to wide crimping in comparison to narrow crimping

Characteristics

- Quick coupling
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Suitable for

- 13-series interchangeable dies, wide crimping

Technical data	
Crimping force	120 kN
Crimping range	10 - 400 mm ²
Operating pressure	max. 700 bar
Weight	12 kg
Dimensions	H x W x D: 285 x 160 x 110 mm
Item	Part No.
Hydraulic crimping tool for workbench mounting 10 - 400 mm ²	THK120

Available dies for Series 13 for PK 120/42 and THK 120

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		2.91
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		2.92
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		2.92
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		16 - 50		2.92
Tubular cable lugs and connectors – VA		70 - 95		2.92
Tubular cable lugs and connectors - Ni		16 - 50		2.92
Tubular cable lugs and connectors - Ni		70 - 95		2.92
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		10 - 300		2.92
Double compression cable lugs		2 x 50 - 2 x 120		2.93
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		16 - 150		2.93
Insulated terminals and pin terminals		10 - 95		2.93
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		2.93
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10 sm - 300 re/see		2.94
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10 sm - 300 re/se		2.94
Clamps				
Clamps, C-type		10 - 70		2.94
Clamps, H-type		70 - 120		2.94
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.94



Crimping

Hydraulic crimping heads and crimping systems

PK 120 U Hydraulic crimping head 10 - 400 mm²



- ▶ H-head for deep groove crimps
- ▶ Up to 60% fewer crimps thanks to wide crimping in comparison to narrow crimping

Characteristics

- Head with quick coupling, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Suitable for

- 13-series interchangeable dies, wide crimping

Technical data	
Crimping force	120 kN
Stroke / opening width	20 mm
Crimping range	10 - 400 mm ²
Operating pressure	max. 700 bar
Length	320 mm
Weight	3.7 kg
Item	Part No.
Hydraulic crimping head 10 - 400 mm ²	PK120U
Scope of supply	Part No.
Carrying bag	TT2



Available dies for Series 13 for PK 120 U

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		2.91
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		2.92
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		2.92
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		16 - 50		2.92
Tubular cable lugs and connectors – VA		70 - 95		2.92
Tubular cable lugs and connectors - Ni		16 - 50		2.92
Tubular cable lugs and connectors - Ni		70 - 95		2.92
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		10 - 300		2.92
Double compression cable lugs		2 x 50 - 2 x 120		2.93
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		16 - 150		2.93
Insulated terminals and pin terminals		10 - 95		2.93
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		2.93
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10 sm - 300 re/see		2.94
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10 sm - 300 re/se		2.94
Clamps				
Clamps, C-type		10 - 70		2.94
Clamps, H-type		70 - 120		2.94
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.94



Crimping

Hydraulic crimping heads and crimping systems

PK 25/2 Hydraulic crimping head 16 - 625 mm²



K25
SERIE

K13
SERIE

- ▶ 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
- When using adapter item no. 25A13 also for interchangeable dies of the 13 series

Technical data	
Crimping force	250 kN
Stroke / opening width	20 mm
Crimping range	16 - 625 mm ²
Operating pressure	max. 700 bar
Length	335 mm
Weight	5.3 kg
Item	Part No.
Hydraulic crimping head 16 - 625 mm ²	PK252
Scope of supply	Part No.
Carrying bag	TT2
Accessories	Art-Nr.
Adapter for crimping dies of the Klauke 13-series	25A13

Available dies for Series 25 for PK 25/2

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

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		300 - 400		2.96
Tubular cable lugs and connectors for fine stranded conductors		240		2.96
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		300 - 625		2.96
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		400 - 500		2.96
Compression cable lugs and connectors acc. to DIN - Al				
Compression cable lugs and connectors acc. to DIN - Al		400 - 500		2.97
Aluminium/copper compression cable lugs and connectors				
Aluminum side of aluminium/copper compression cable lugs and connectors: crimping dies HA25, copper side of aluminium/copper compression cable lugs and connectors: crimping dies HD25		400 - 500		2.97
Clamps and screw connectors				
C-clamps		35 - 185		2.97

Available dies for Series 13 for PK 25/2

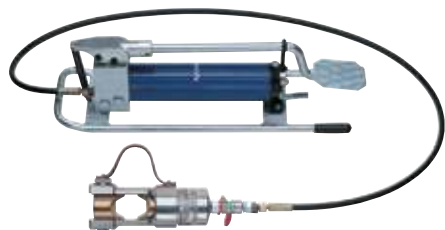
Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		2.91
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		2.92
Tubular cable lugs and connectors for fine stranded conductors		10 - 150		2.92
Tubular cable lugs and connectors - stainless steel, Ni				
Tubular cable lugs and connectors – VA		16 - 50		2.92
Tubular cable lugs and connectors – VA		70 - 95		2.92
Tubular cable lugs and connectors - Ni		16 - 50		2.92
Tubular cable lugs and connectors - Ni		70 - 95		2.92
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		10 - 300		2.92
Double compression cable lugs		2 x 50 - 2 x 120		2.93
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		16 - 150		2.93
Insulated terminals and pin terminals		10 - 95		2.93
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		2.93
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10 sm - 300 re/see		2.94
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10 sm - 300 re/se		2.94
Clamps				
Clamps, C-type		10 - 70		2.94
Clamps, H-type		70 - 120		2.94
Cable end-sleeves				
Cable end-sleeves		25 - 240		2.94



Crimping

Hydraulic crimping heads and crimping systems

HK 25/2 Hydraulic crimping tool with foot pump 16 - 625 mm²



K25
SERIE

K13
SERIE

- ▶ 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.
- When using adapter item no. 25A13 also for interchangeable dies of the 13 series

Technical data

Crimping force	250 kN
Crimping range	16 - 625 mm ²
Operating pressure	max. 700 bar
Weight	17.6 kg

Item	Part No.
Hydraulic crimping tool with foot pump 16 - 625 mm ²	HK252
Scope of supply	Part No.
Hydraulic hose, 2 m	HS22
Steel carrying case	MKU
Accessories	Part No.
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
Adapter for crimping dies of the Klauke 13-series	25A13

SIX SERIES IN USE - CRIMPING DIES

The Klauke range of crimping dies is unbeatable. We have developed a total of 6 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 6 different crimping dies series
- ▶ Solutions for every material
- ▶ Polished crimping surfaces for optimum crimping results

Adapter

The use of adapters for crimping tools increases the area of application and enables the processing of smaller cross-sectional areas. **Inform yourself!**

K15 Series: Part no. UA15T for crimping dies of series 13

K25 Series: Part no. 25A13 for crimping dies of series 13

	K50 SERIE 	K4 SERIE 	K22 SERIE 	K13 SERIE 	K15 SERIE 	K25 SERIE 
Connection material						
	0,75-25 mm ²	6-150 mm ²	6-300 mm ²	16-400 mm ²	16-400 mm ²	16-400 mm ²
	–	10-70 mm ²	10-150 mm ²	10-150 mm ²	10-150 mm ²	10-150 mm ²
	–	10-35 mm ²	10-70 mm ²	10-150 mm ²	10-150 mm ²	10-240 mm ²
	1,5-10 mm ²	–	1,5-16 mm ²	–	–	–
VA 	–	1,5-16 mm ²	10-50 mm ²	16-95 mm ²	16-95 mm ²	16-95 mm ²
Ni 	–	1,5-16 mm ²	10-50 mm ²	16-95 mm ²	16-95 mm ²	16-95 mm ²
DIN 	6-25 mm ²	6-120 mm ²	6-300 mm ²	10-300 mm ²	10-625 mm ²	10-625 mm ²
	–	–	2x70 mm ²	2x50-2x120 mm ²	2x50-2x120 mm ²	2x50-2x120 mm ²
	0,5-10 mm ²	10-35 mm ²	10-70 mm ²	16-150 mm ²	16-150 mm ²	16-150 mm ²
	0,5-16 mm ²	10-16 mm ²	10-70 mm ²	10-95 mm ²	10-95 mm ²	16-95 mm ²
	–	16-150 mm ² *	10-300 mm ² *	10-300 mm ² *	10-300 mm ² *	10-500 mm ² *
Al 	–	10-95 mm ²	10-300 mm ²	10-300 mm ²	10-500 mm ²	10-500 mm ²
Al/Cu 	–	10-95 mm ²	10-300 mm ²	10-300 mm ²	10-500 mm ²	10-500 mm ²
	–	10-35 mm ²	10-70 mm ²	10-70 mm ²	10-70 mm ²	10-185 mm ²
	–	–	70 mm ²	70-120 mm ²	70-120 mm ²	70-120 mm ²
	0,5-50 mm ²	10-50 mm ²	25-240 mm ²	25-240 mm ²	25-240 mm ²	25-240 mm ²
	2x6-2x16 mm ²	–	–	–	–	–
	0,1-16 mm ²	–	–	–	–	–
	0,25-6 mm ²	–	–	–	–	–
BNC plug	RG 58, RG 59, RG 62, RG 71	–	–	–	–	–
Turned pin receptacle and pin connectors	0,1-4 mm ²	–	–	–	–	–

* Cross-section depending on conductor structure



K 50



EK 50 ML

Crimping dies R 50, indent crimping



Suitable for

- Tubular cable lugs and connectors - Cu, standard type

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

Crimping dies R 50, hexagonal crimping



Suitable for

- Tubular cable lugs and connectors - Cu, standard type

Cross section mm ²	Part No.
6 - 16	R504
16 - 25	R505

Crimping dies M 50



Suitable for

- Tubular cable lugs and connectors for solid conductors

Cross section mm ²	Part No.
1.5 - 4	M50154
6 - 10	M50610

Crimping dies D 50



Suitable for

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

Cross section mm ²	Part No.
6 - 16	D504
16 - 25	D505

Crimping dies Q 50



Suitable for

- Solderless terminals to DIN 46234 and pin terminals to DIN 46230 - Cu
- Solderless connectors to DIN 46341 - Cu

Cross section mm ²	Part No.
0.5 - 10	Q501

Crimping dies AE 507



Suitable for

- Cable end-sleeves

Cross section mm ²	Part No.
0.5 - 6	AE5071
10 - 25	AE5072
35 - 50	AE5073

Crimping dies IS 50, single crimping

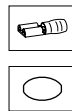


Suitable for

- Insulated cable connections, single crimping
- Insulated solderless terminals and pin terminals

Cross section mm ²	Part No.	for item
0,5 - 2,5	IS504	670 WS, 680 WS
4 - 6	IS505	700 WS
10 - 16	IS5072	ST1716IS, ST1717IS, 652C5, 652C6, 653C6

Crimping dies IS 50, double crimping



Suitable for

- Insulated cable connections, double crimping

Cross section mm ²	Part No.	for item
0,1 - 1	IS503	8201-8201B
0,5 - 6	IS5071	

Crimping dies CR 50



Suitable for

- Non-insulated receptacles

Cross section mm ²	Part No.	for item	Tab Width
0.25 - 6	CR501		2.8 / 6.3
0.5 - 2.5	CR502		4.8
0.5 - 2.5	CR504	3720, 3735	6.3
0.5 - 1.5	CR505	3725	6.3

Crimping dies BNC 50



Suitable for

- Stud and shielded sleeves
- BNC plugs for coax cable RG 58, 59, 62 and 71

Part No.
BNC501

Crimping dies SB 50

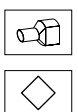


Suitable for

- Turned pin receptacles
- Pin connectors

Cross section mm ²	Part No.
0.1 - 1; 1.5 - 2.5; 4	SB501

Crimping dies ZAE 507



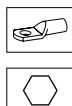
Suitable for

- Twin cable end-sleeves

Cross section mm ²	Part No.
2x6 - 2x16	ZAE5072



Crimping dies HR 4



Suitable for

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

Cross section mm ²	Part No.	Crimp width mm
6	HR46	5
10	HR410	5
16	HR416	5
25	HR425	5
35	HR435	5
50	HR450	5
70	HR470	5
95	HR495	5
120	HR4120	5
150	HR4150	5

Crimping die set, 6 - 150 mm² HR 4 in plastic case, 11-pce.



Suitable for

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

Part No.
HR4SET

Crimping dies HIS 4



Suitable for

- Insulated tubular cable lugs and connectors
- Insulated pin terminals

Cross section mm ²	Part No.	Crimp width mm
10	HIS410	5
16	HIS416	5
25	HIS425	5
35	HIS435	5
50	HIS450	5
70	HIS470	5

Crimping dies HF 4



Suitable for

- Tubular cable lugs and connectors for fine stranded conductors

Cross section mm ²	Part No.
10	HF410
16	HF416
25	HF425
35	HF435

Crimping dies HN 4, Double indent crimping



Suitable for

- Tubular cable lugs and connectors - Ni
- Tubular cable lugs and connectors - stainless steel

Cross section mm ²	Part No.
4 - 6	HN446
10	HN410
16	HN416

Crimping dies HN 4, Indent crimping



Suitable for

- Tubular cable lugs and connectors - Ni
- Tubular cable lugs and connectors - stainless steel

Cross section mm ²	Part No.
1.5 - 2.5	HN41525

Crimping die set, 6 - 120 mm² HD 4 in plastic case, 10-pce.

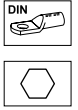


Suitable for

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

Part No.
HD4SET

Crimping dies HD 4

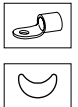


Suitable for

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

Cross section mm ²	Part No.	Code	Crimp width mm
6	HD46	5	5
10	HD410	6	5
16	HD416	8	5
25	HD425	10	5
35	HD435	12	5
50	HD450	14	5
70	HD470	16	5
95	HD495	18	5
120	HD4120	20	5

Crimping dies HQ 4

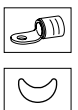


Suitable for

- Solderless terminals to DIN 46234 and pin terminals to DIN 46230 - Cu
- Solderless connectors to DIN 46341 - Cu

Cross section mm ²	Part No.
10	HQ410
16	HQ416
25	HQ425
35	HQ435

Crimping dies HISQ 4



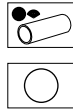
Suitable for

- Insulated solderless terminals and pin terminals

Cross section mm ²	Part No.
10	HISQ410
16	HISQ416



Crimping dies HRU 4

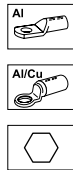


Suitable for

- Pre-rounding dies for sector-shaped Al and Cu conductors
- 3- and 4-core sector-shaped conductors

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Dia. mm after pre-rounding	Pre-rounding width mm
	16	HRU416	5.1	9
35	25	HRU43525	6.3	9
50	35	HRU45035	7.5	9
70	50	HRU47050	9.0	9
95	70	HRU49570	10.5	9
120	95	HRU412095	12.5	9
150	120	HRU4150120	14.0	9

Crimping dies HA 4

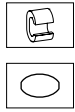


Suitable for

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

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Conductor dia. mm	Pre-rounding width mm
16	10	HA410	10	7
25 - 35	16 - 25	HA41625	12	7
50	35	HA435	14	7
70	50	HA450	16	7
95	70	HA470	18	7

Crimping dies HC 4 / HMC 4

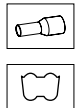


Suitable for

- C-clamps

Cross section mm ²	Part No.	Crimp width mm
16	HC416	5
25	HC425	5
10 - 10	HMC410	5
10 - 16 10 - 25 35 - 35	HMC435	5

Crimping dies HAES 4



Suitable for

- Cable end-sleeves

Cross section mm ²	Part No.	Crimp width mm
10	HAES410S	10
16	HAES416S	10
25	HAES425S	10
35	HAES435S	10
50	HAES450S	10

K22 SERIE



K 22

HK 60/22

EK 60/22

EKM 60/22

EKM 60/22 IS

EKM 60 UNV + UA22

EK 60 UNV + UA22

THK 22

PK 22

PK 60 UNV + UA22

Crimping dies R 22

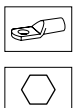


Suitable for

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

Cross section mm ²	Part No.	Crimp width mm
6	R226	5
10	R2210	5
16	R2216	5
25	R2225	5
35	R2235	5
50	R2250	5
70	R2270	5
95	R2295	5
120	R22120	5
150	R22150	5
185	R22185	5
240	R22240	5
300	R22300	5

Crimping die set, 6 - 300 mm² R 22 in plastic case, 14-pce.

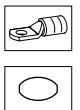


Suitable for

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

Part No.
R22SET

Crimping dies IS 22



Suitable for

- Insulated tubular cable lugs and connectors
- Insulated pin terminals

Cross section mm ²	Part No.	Crimp width mm
10	IS2210	5
16	IS2216	5
25	IS2225	5
35	IS2235	5
50	IS2250	5
70	IS2270	5
95	IS2295	5
120	IS22120	5
150	IS22150	5



Crimping dies F 22



Suitable for

- Tubular cable lugs and connectors for fine stranded conductors

Cross section mm ²	Part No.
10	F2210
16	F2216
25	F2225
35	F2235
50	F2250
70	F2270

Crimping dies M 22



Suitable for

- Tubular cable lugs and connectors for solid conductors

Cross section mm ²	Part No.	Crimp width mm
1.5 - 4	M22154	5
6 - 10	M22610	5
16	M2216	5

Crimping dies N 22



Suitable for

- Tubular cable lugs and connectors - Ni
- Tubular cable lugs and connectors - stainless steel

Cross section mm ²	Part No.
10	N2210
16	N2216
25	N2225
35	N2235
50	N2250

Crimping dies D 22



Suitable for

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

Cross section mm ²	Part No.	Code	Crimp width mm
6	D226	5	5
10	D2210	6	5
16	D2216	8	5
25	D2225	10	5
35	D2235	12	5
50	D2250	14	5
70	D2270	16	5
95	D2295	18	5
120	D22120	20	5
150	D22150	22	5
185	D22185	25	5
240	D22240	28	5
300	D22300	32	5

Crimping die set, 6-300 mm² D 22 in plastic case, 14-pce.



Suitable for

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

Part No.
D22SET

Crimping dies DP 22



Suitable for

- Double compression cable lugs

Cross section mm ²	Part No.	Code
2 x 70	DP2270	24 DP

Crimping dies Q 22



Suitable for

- Solderless terminals to DIN 46234 and pin terminals to DIN 46230 - Cu
- Solderless connectors to DIN 46341 - Cu

Cross section mm ²	Part No.
10	Q2210
16	Q2216
25	Q2225
35	Q2235
50	Q2250
70	Q2270

Crimping dies ISQ 22

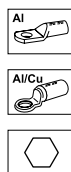


Suitable for

- Insulated solderless terminals and pin terminals

Cross section mm ²	Part No.
10	ISQ2210
16	ISQ2216
25	ISQ2225
35	ISQ2235
50	ISQ2250
70	ISQ2270

Crimping die set, 10-300 mm² A 22 in plastic case, 11-pce.

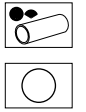


Suitable for

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

Part No.
A22SET

Crimping dies RU 22

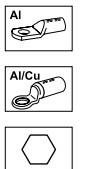


Suitable for

- Pre-rounding of sector-shaped Al- and Cu-conductors
- 3- and 4-core sector-shaped conductors

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Dia. mm after pre-rounding	Pre-rounding width mm
	10	RU2210	4,1	19,5
	16	RU2216	5,1	19,5
35	25	RU223525	6,3	19,5
50	35	RU225035	7,5	19,5
70	50	RU227050	9,0	19,5
95	70	RU229570	10,5	19,5
120	95	RU2212095	12,5	19,5
150	120	RU22150120	14,0	19,5
185	150	RU22185150	15,8	19,5
240	185	RU22240185	17,5	19,5
300	240	RU22300240	20,3	19,5
	300	RU22300SM	22,5	19,5

Crimping dies A 22



Suitable for

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

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Code	Crimp width mm
16	10	A2210	10	7
25-35	16-25	A221625	12	7
50	35	A2235	14	7
70	50	A2250	16	7
95	70	A2270	18	7
120-150	95-120	A2295120	22	7
185	150	A22150	25	7
240	185	A22185	28	7
300	240	A22240	32	5
	300	A22300	34	5



Crimping dies H 22



Suitable for

- H-clamps

Cross section mm ²	Part No.	Crimp width mm
70	H2270	5

Crimping dies C 22 / MC 22



Suitable for

- C-clamps

Cross section mm ²	Part No.	Crimp width mm
16	C2216	5
25	C2225	5
35	C2235	5
50	C2250	5
70	C2270	5
10 - 10	MC2210	5
10 - 1 10 - 25 35 - 35	MC2235	5
50	MC2250	5

Crimping dies AE 2213



- ▶ The crimping dies can be used with tools from crimping dies series 22 und 13



Suitable for

- Cable end-sleeves

Cross section mm ²	Part No.	Crimp width mm
25	AE221325	21.5
35	AE221335	21.5
50	AE221350	21.5
70	AE221370	21.5
95	AE221395	21.5
120	AE2213120	21.5
150	AE2213150	21.5
185	AE2213185	21.5
240	AE2213240	21.5

K13 SERIE



HK 120/30

HK 120/42

HK 120 U

EK 120/32

EK 120/42

EK 120 UNV

EK 120 U

EK 135 FT

THK 120

PK 120/42

PK 120 U

HK 25/2
+ 25/A13

PK 25/2
+ 25/A13

Crimping die set 16 - 400 mm² HR13 in plastic case, 13 - pce.



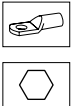
Suitable for

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

Part No.

HR13SET

Crimping dies HR 13



Suitable for

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

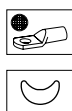
Additional information

- * = Narrow crimping (crimp 5 x)

Cross section mm ²	Part No.	Crimp width mm
16	HR1316	10
25	HR1325	10
35	HR1335	10
50	HR1350	13
70	HR1370	13
95	HR1395	14
120	HR13120	14
150	HR13150	14
185	HR13185	11
240	HR13240	11
300	HR13300	11
400 *	HR13400	5



Crimping dies HF 13

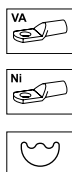


Suitable for

- Tubular cable lugs and connectors for fine stranded conductors

Cross section mm ²	Part No.
10	HF1310
16	HF1316
25	HF1325
35	HF1335
50	HF1350
70	HF1370
95	HF1395
120	HF13120
150	HF13150

Crimping dies HN 13, Double indent crimping

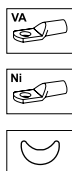


Suitable for

- Tubular cable lugs and connectors - Ni
- Tubular cable lugs and connectors - stainless steel

Cross section mm ²	Part No.
16	HN1316
25	HN1325
35	HN1335
50	HN1350

Crimping dies HN 13, Indent crimping



Suitable for

- Tubular cable lugs and connectors - Ni
- Tubular cable lugs and connectors - stainless steel

Cross section mm ²	Part No.
70	HN1370
95	HN1395

Crimping dies HIS 13



Suitable for

- Insulated tubular cable lugs and connectors
- Insulated pin terminals

Cross section mm ²	Part No.	Crimp width mm
10	HIS1310	5
16	HIS1316	5
25	HIS1325	5
35	HIS1335	5
50	HIS1350	5
70	HIS1370	5
95	HIS1395	5
120	HIS13120	5
150	HIS13150	5

Crimping dies HD 13



Suitable for

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

Technical instructions

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

Additional information

- * = Narrow crimping (crimp 5 x)

Cross section mm ²	Part No.	Code	Crimp width mm
10	HD1310	6	10
16	HD1316	8	10
25	HD1325	10	10
35	HD1335	12	10
50	HD1350	14	13
70	HD1370	16	13
95	HD1395	18	14
120	HD13120	20	14
150	HD13150	22	10
185	HD13185	25	10
240	HD13240	28	10
300 *	HD13300	32	7

Crimping dies HDP 13



Suitable for

- Double compression cable lugs

Cross section mm ²	Part No.	Code	Crimp width mm
2 x 50	HDP1350	22 DP	12
2 x 70	HDP1370	24 DP	12
2 x 95	HDP1395	29 DP	12
2 x 120	HDP13120	32 DP	12

Crimping dies HQ 13



Suitable for

- Solderless terminals to DIN 46234 and pin terminals to DIN 46230 - Cu
- Solderless connectors to DIN 46341 - Cu

Cross section mm ²	Part No.
16	HQ1316
25	HQ1325
35	HQ1335
50	HQ1350
70	HQ1370
95	HQ1395
120	HQ13120
150	HQ13150

Crimping die set 10 - 300 mm² HD13 in plastic case, 13 - pce.

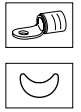


Suitable for

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

Part No.
HD13SET

Crimping dies HISQ 13

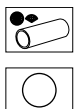


Suitable for

- Insulated solderless terminals and pin terminals

Cross section mm ²	Part No.
10	HISQ1310
16	HISQ1316
25	HISQ1325
35	HISQ1335
50	HISQ1350
70	HISQ1370
95	HISQ1395

Crimping dies HRU 13



Suitable for

- Pre-rounding dies for sector-shaped Al and Cu conductors
- 3- and 4-core sector-shaped conductors

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Dia. mm after pre-rounding	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	300	HRU13300SM	22.5	35



Crimping dies HA 13



Suitable for

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

Technical instructions

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

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Code	Crimp width mm
16	10	HA1310	10	12
25-35	16-25	HA131625	12	12
50	35	HA1335	14	12
70	50	HA1350	16	12
95	70	HA1370	18	12
120-150	95-120	HA1395120	22	14
185	150	HA13150	25	14
270	185	HA13185	28	14
300	240	HA13240	32	17
-	300	HA13300	34	17

Crimping die set 10 - 300 mm² HA13 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.
HA13SET

Crimping dies HAH 13



Suitable for

- H-clamps

Cross section mm ²	Part No.	Crimp width mm
70	HAH1370	30
95	HAH1395	30
120	HAH13120	20

Crimping dies HC 13 / HMC 13



Suitable for

- C-clamps

Cross section mm ²	Part No.	Crimp width mm
16	HC1316	16
25	HC1325	17
35	HC1335	20
50	HC1350	20
70	HC1370	20
10 - 10	HMC1310	13
10 - 16 10 - 25 35 - 35	HMC1335	18
25 - 50 50 - 50	HMC1350	20
35 - 70	HMC1370	20

Crimping dies AE 2213



- The crimping dies can be used with tools from crimping dies series 22 and 13



Suitable for

- Cable end-sleeves

Cross section mm ²	Part No.	Crimp width mm
25	AE221325	21.5
35	AE221335	21.5
50	AE221350	21.5
70	AE221370	21.5
95	AE221395	21.5
120	AE2213120	21.5
150	AE2213150	21.5
185	AE2213185	21.5
240	AE2213240	21.5

K15 SERIE



Adapter for crimping dies Series 13



Suitable for

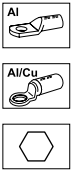
- All crimping dies of series 13

Item	Part No.
Adapter for crimping dies Series 13	UA15T

Crimping dies HA 15



NEW



Suitable for

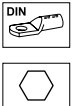
- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Cross section mm ²	Part No.	Code	Crimp width mm
400	HA15400	38	15
500	HA15500	44	15

Crimping dies HD 15



NEW



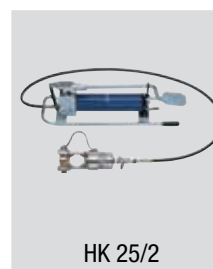
Suitable for

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

Additional information

- * = Narrow crimping (crimp 7 x)

Cross section mm ²	Part No.	Code	Crimp width mm
400 *	HD15400	38	7
500 *	HD15500	42	7
625 *	HD15625	44	7



HK 25/2



PK 25/2

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 mm ²	Part No.	Crimp width mm
300	HR25300	20
400	HR25400	20

Crimping dies HF 25



Suitable for

- Tubular cable lugs and connectors for fine stranded conductors

Cross section mm ²	Part No.
240	HF25240

Crimping dies HD 25



Suitable for

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

Cross section mm ²	Part No.	Code	Crimp width mm
300	HD25300	32	17
400	HD25400	38	17
500	HD25500	42	17
625	HD25625	44	15

Crimping dies HRU 25



Suitable for

- Pre-rounding dies for sector-shaped Al and Cu conductors
- 3- and 4-core sector-shaped conductors

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Dia. mm after pre-rounding	Pre-rounding width mm
	400	HRU25400SM	26	40
	500	HRU25500SM	29	40

Crimping dies HA 25

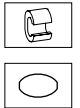


Suitable for

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

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Code	Crimp width mm
-	400	HA25400	38	17
-	500	HA25500	44	15

Crimping dies HC 25 / HMC 25



Suitable for

- C-clamps

Cross section mm ²	Part No.	Crimp width mm
95	HC2595	20
35 - 95; 70 - 95	HMC2595	20
120 - 120	HMC25120	20
150 - 150	HMC25150	20
185 - 185	HMC25185	20

CUTS ABSOLUTELY EVERYTHING.

Klauke cutting tools offer an impressively broad range of applications. No matter which material or cross sections you want to cut, Klauke tools ensure you work simply, quickly and safely.





Cutting

Mechanical cutting tools	3.4
Battery powered cutting tools	3.10
Platform based on 10.8 V	3.11
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Hand-operated hydraulic cutting tools	3.39
Hydraulic cutting heads and cutting systems	3.41
Hydraulic cutting heads	3.42
Hydraulic cutting systems	3.47
Special cutting tools	3.48
DIN rail cutting tools	3.49
Wiring duct cutter	3.50



PERFECT CUTTING - MECHANICAL CUTTING TOOLS

In use, every cut must sit straight away. Our mechanical cutting tools are prepared for your work. The ergonomic handle is there to assist you, because the first moment, the typical Klauke lever technology optimally transfers your force. Your cuts are precise, the tools are easy to use and durable thanks to high material quality. Good first impression.



In brief

- ▶ Cutting tools for aluminium and copper cables up to 100 mm diameter
- ▶ Simple working due to optimised force transmission
- ▶ Precise cuts with high-quality cutting blades
- ▶ Effortless operations thanks to ergonomic shape

► For everyday use

Klauke cutting tools are made from high-quality materials: "Made in Germany". Highly durable and are therefore best suited for daily use in workshops or on the construction site.

- Cutting tools for aluminium and copper cables up to 100 mm diameter



- Also available as fully-insulated tool to 1000 V to DIN EN 60900
- Re-adjustable cutters
- Effortless operations due to low weight
- Processing of high-quality materials

► Powerful in every situation

- Compact and convenient size
- Practical single-handed operation with low effort
- Effective cutting performance up to Cu 12 mm dia.
- Reduced effort required due to different cutting profiles for large and small diameters

► Flexible in use

- Stepless telescopic handles permit optimum lever adjustment
- Cutting head can be replaced
- Well suited for fine-stranded conductors





Cutting

Mechanical cutting tools

K 118 Hand-operated cutting tool for Al and Cu cables to 12 mm dia.



- ▶ Perfect in confined areas
- ▶ Handy shape with high cutting performance
- ▶ Exceptional cutting tool for solid, multi, fine and superfine stranded cables e.g. to DIN EN 60228, Class 1, 2, 5 and 6
- ▶ Increased user convenience thanks to two cutting profiles for small and large cable dimensions

Characteristics

- One-hand operation

Suitable for

- For solid conductors, class 1, to 10 mm² (max. 4 mm dia.)
- Copper stranded conductors, class 2, to 16 mm² (max. 5 mm dia.)
- Aluminium stranded conductors, class 2, to 25 mm² (max. 10 mm dia.)
- Copper fine and superfine stranded conductors, class 5 and 6, to 50 mm² (max. 12 mm dia.)

Technical data	
Cutting range	max. 12 mm dia., e.g. 1 x 50 mm ² H07VK
Length	165 mm
Weight	0.17 kg
Item	Part No.
Hand-operated cutting tool for to 12 mm dia.	K118

K 100 Hand-operated cutting tool for Al and Cu cables to 14 mm dia.



- ▶ Optimised cutting tool for fine and multi-stranded cables

Characteristics

- Compact design permits cutting in confined areas
- Two-hand operation

Technical data	
Cutting range	max. 14 mm dia., e.g. 1 x 50 mm ² H07VK
Length	280 mm
Weight	0.55 kg
Item	Part No.
Hand-operated cutting tool for Cu and Al cables to 14 mm dia.	K100

K 102 Hand-operated cutting tool for to 20 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. 20 mm dia., e.g. 1 x 95 mm ² H07V-K
Length	210 mm
Weight	0.38 kg
Item	Part No.
Hand-operated cutting tool for to 20 mm dia.	K102

K 106/1 Hand-operated cutting tool for Al and Cu cables, class 2 to Ø 34 mm



- ▶ 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



- ▶ 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



Cutting

Mechanical cutting tools

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 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 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.
Replacement cutting head	K1011E

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 NY, 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 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.
Replacement cutting head	K1012E

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 NAY, 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



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	EBS8ML: 100 at silver steel 6 mm, EBS12ML: 150 at mild steel 10 mm
Battery voltage	10.8 V
Battery capacity	2.5 Ah, Li-Ion
Charging time	approx. 45 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.
Battery 10.8 V / 1.5 Ah, Li-Ion (16.2 Wh)	RAML1
Battery 10.8 V / 2.5 Ah, Li-Ion (27 Wh)	RAML1225
Plastic case	KKML



Cutting

Battery-powered hydraulic cutting tools 10.8 V

ES 20 ML Battery powered hydraulic cutting tool 20 mm dia.



- ▶ For cutting Al/St conductors (ACSR) to DIN EN 50182, solid Al/Cu cables to DIN EN 60228, Class 1 and laminated copper bus bars
- ▶ Extremely robust design and lightweight
- ▶ Powerful 10.8 V Li-Ion battery technology with battery charge indicator

Characteristics

- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Comfortable and secure one-hand operation thanks to 2-component plastic housing with soft grips
- Effortless working thanks to low weight
- Simple and safe: Automatic retraction when operation is complete
- Maintenance display via LED

Technical data

Cutting range	Multi-stranded max. 20 mm dia. (depending on cable type)
Cutting force	23 kN
Cutting time	4 s to 6 s (depending on material thickness)
Number of cuts	approx. 200 for steel cable 8 mm
Battery voltage	10.8 V
Battery capacity	21.5 Ah, Li-Ion
Charging time	approx. 45 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.
Battery 10.8 V / 2.5 Ah, Li-Ion (27 Wh)	RAML1225
Charger for 10.8 V Li-Ion batteries, 230 V	LGML1
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. 100 at 150 mm ² NYY, ES32FML: approx. 150 at H07V-K 185 mm ²
Battery voltage	10.8 V
Battery capacity	2.5 Ah, Li-Ion
Charging time	approx. 45 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.
Battery 10.8 V / 2.5 Ah, Li-Ion (27 Wh)	RAML1225
Charger for 10.8 V Li-Ion batteries, 230 V	LGML1
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 x.xx >>](#)

► 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



► Klauke Link® App

Connectivity is the generic term for the digital application that Klauke is making available to its customers in addition to its tools – the new Klauke Link® App. This application offers you new possibilities with all Klauke Next Generation tools.

The Klauke Link® App can be found at:
<https://www.klauke.com/de/en/klauke-link-connectivity>



► 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





Cutting

Battery-powered hydraulic cutting tools 18 V

EBS 6 L GKS Battery powered hydraulic cable tray cutter 6 mm dia.



- ▶ No follow-up work required thanks to burr-free cutting
- ▶ Fast and efficient operations: The cut is made in less than 1 second
- ▶ Maintenance required only after 20.000 cuts (renew hydraulic shock absorber system)
- ▶ Always cut ready due to autonomous replaceable blades

Characteristics

- Open head, rotatable
- Electronic control and monitoring of operation
- Simple and safe: One-button operating concept for controlling all tool functions
- Comfortable and secure one-hand operation thanks to 2-component plastic housing with soft grips
- Balanced centre of gravity for easy handling and effortless operations
- LED for work area illumination
- Powerful 18 V Li-Ion battery - high capacity, short charging time
- High-performance motor for maximum operating speed
- Energy saving function with motor cut-out after successful operation
- Quick motor stop for high user safety
- Simple and safe: Automatic retraction when operation is complete
- Manual retract as required
- Multifunction LED for maintenance display and charge status display of the battery
- Environmentally-friendly hydraulic oil, quickly biodegradable

Technical data

Cutting range	max. 6 mm (VA)
Cutting force	24 kN
Cutting time	< 1 s
Number of cuts	approx. 300 at 6 mm VA, 360 at grid channel 5 mm
Battery voltage	18 V
Battery capacity	1.5 Ah
Charging time	15 min.
Weight incl. battery	1.9 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No.
Battery powered hydraulic cable tray cutter 6 mm dia.	EBS6LGKS
Scope of supply	Part No.
Makita battery 18 V / 1.5 Ah, Li-Ion	RAL1
Makita quick-charger for 18 V Li-Ion battery	LGL1
Plastic case	KK50L
Accessories	Part No.
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)	RAL2
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40
18 V mains adapter for 230 V Voltage	NG2230

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 Klauke Link® 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		
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 450 x 370 x 105 mm	KK50NG	KK50NG
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2



Cutting

Battery-powered hydraulic cutting tools 18 V

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 Klauke Link® 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		
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 450 x 370 x 105 mm	KK50NG	KK50NG
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)	RAL2	

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 Klauke Link® 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		
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 450 x 370 x 105 mm	KK50NG	KK50NG
Accessories		
Replacement blade	ES20E	ES20E
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2
Variants		
L-BOXX with battery powered cutting tool ES20CFB	LBOXXES20CFB	



Cutting

Battery-powered hydraulic cutting tools 18 V

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 Klauke Link® 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		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita quick-charger for 18 V Li-Ion battery		LGL1
Bluetooth remote control	BTC3	BTC3
Accessories		
Bosch battery 18 V / 4.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Replacement blade set for ES 20 RMC	ES20E	ES20E
Replacement blade set for ES 32 RMC	ES32E	ES32E

Battery powered hydraulic cutting tool with remote control 65 and 105 mm dia.

**NEXT
GENERATION**



ESG105RMCCFM



- ▶ Remote control tool for safe distance when cutting
- ▶ Real end position detection that is unique worldwide
- ▶ For cutting copper and aluminum cables according to DIN EN 60228 class 1 and 2, also with light steel armouring
- ▶ Cutting forces: ESG65RMC: 60 kN, ESG105RMC: 120 kN for extra large cutting areas
- ▶ All tool data in view thanks to display and Klauke Link® App
- ▶ Of course, manual operation is also possible without using the remote control.

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		
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40	RAL40
Makita quick charger for 18 V Li-Ion battery	LGL1	LGL1
Bluetooth remote control	BTC3	BTC3
Accessories		
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40	RAL40
Bluetooth remote control	BTC3	BTC3



Cutting

Battery-powered hydraulic cutting tools 18 V

ESG 105 RMCP Battery powered hydraulic cutting tool with remote control dia. 105 mm (Bosch-battery)

**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 EN 60228 class 1 and 2, also with light steel armouring
- ▶ Display in German language
- ▶ All tool data in view thanks to display and Klauke Link® app

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	
Head type	Guillotine closed
Cutting range	max. 105 mm dia, e.g. NYCWY 4 x 240 SM/120
Cutting time	2 s up to 13 s (depending on cable type)
Cutting force	120 kN
Charging time	36 min.
Weight incl. battery	10.5 kg
Ambient temperature	-10 °C up to +40 °C
Item	Part No.
Battery powered hydraulic cutting tool with remote control dia. 105 mm	ESG105RMCPCFB
Scope of supply	Part No.
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU
Bosch quick charger for 18 V Li-Ion-batteries	LGLB1EU
Bluetooth remote control	BTC3
Accessories	Part No.
Bosch battery 18 V / 5,0 Ah, Li-Ion	RALB2EU
Bluetooth remote control	BTC3

ESG 105 RMCP Battery powered hydraulic cutting tool with remote control dia. 105 mm (Makita-battery)

**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 EN 60228 class 1 and 2, also with light steel armouring
- ▶ Display in German language
- ▶ All tool data in view thanks to display and Klauke Link® app

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

Suitable for

- Cu and Al cables even armoured cable

Additional information

- Part number suffix for tools without battery and charger „0000“

Technical data

Head type	Guillotine closed
Cutting range	max. 105 mm dia, e.g. NYCWY 4 x 240 SM/120
Cutting time	2 s up to 13 s (depending on cable type)
Cutting force	120 kN
Charging time	36 min.
Weight incl. battery	10.5 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No.
Battery powered hydraulic cutting tool with remote control dia. 105 mm	ESG105RMCPCFM
Battery powered hydraulic cutting tool with remote control without charger and battery	ESG105RMCPCFM0000
Scope of supply	Part No.
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40
Makita quick charger for 18 V Li-Ion-batteries	LGL1
Bluetooth remote control	BTC3
Accessories	Part No.
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40
Bluetooth remote control	BTC3



Cutting

Battery-powered hydraulic cutting tools 18 V

ESG 25 Battery powered hydraulic cutting tool 25 mm dia.

**NEXT
GENERATION**



- ▶ For cutting Al/St cables (ACSR), round materials (Cu, Al, St) as well as armoured cables, solid structural steel and stay wire
- ▶ High-performance cutting characteristics for highly-flexible conductors and wire cables
- ▶ Extremely robust design and lightweight
- ▶ All tool data in view thanks to display and Klauke Link® 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		
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 450 x 370 x 105 mm	KK50NG	KK50NG
Accessories		
Inner moving blade		ESG252ES
Outer fixed blade		ESG252EF
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2
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 Klauke Link® App
- ▶ Quick-change cutting blades

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

suitable for

- Open wires (ACSR, Aldrey), stay wires and high-tensile stay wires

Technical data		
Head type	Cutter open	
Cutting range	Open wire (ACSR, Aldrey) up to Ø 25 mm, stay wires up to Ø 12 mm	
Cutting force	67 kN	
Cutting time	8 s up to 10 s (depending on material thickness)	
Charging time	15 min.	
Weight incl. battery	3.0 kg	
Ambient temperature	-10 °C up to +40	
Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic cutting tool 25 mm dia.	ESM25CFB	ESM25CFM
Scope of supply		
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Plastic case	KK50NG	KK50NG
Accessory		
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Replacement blade set	ESM25ESET	ESM25ESET



Cutting

Battery-powered hydraulic cutting tools 18 V

ES 32 Battery powered hydraulic cutting tool 32 mm dia.

**NEXT
GENERATION**



- ▶ Slim cutting head - ideal when space is critical
- ▶ All tool data in view thanks to display and Klauke Link® 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		
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 450 x 370 x 105 mm	KK50NG	KK50NG
Accessories		
Replacement blade set	ES32E	
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)	RAL2	
Variants		
L-BOXX with battery powered cutting tool ES32CFB	LBOXXES32CFB	
L-BOXX with battery powered cutting tool ES32CFM	LBOXXES32CFM	

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 Klauke Link® 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		
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 450 x 370 x 105 mm	KK50NG	KK50NG
Accessories		
Replacement blade set for fine and superfine stranded copper cables		ES32FE
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2
Variants		
L-BOXX with battery powered cutting tool ES32FCFB	LBOXXES32FCFB	
L-BOXX with battery powered cutting tool ES32FCFM		LBOXXES32FCFM



Cutting

Battery-powered hydraulic cutting tools 18 V

ESM 35 Battery powered hydraulic cutting tool 35 mm dia. for copper and aluminium cable

**NEXT
GENERATION**



- ▶ Protected cutting mechanism through plastic housing
- ▶ For cutting copper and aluminum cables of all classes of conductor
- ▶ All tool data in view thanks to display and Klauke Link® App

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

suitable for

- For cutting copper and aluminum cables of all classes of conductor



Technical data		
Head type	Cutter open	
Cutting range	dia. max. 35 mm	
Cutting force	25 kN	
Cutting time	4 s up to 6 s (depending on material thickness)	
Charging time	15 min.	
Weight incl. battery	2.9 kg	
Ambient temperature	-10 °C up to +40	
Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic cutting tool 25 mm dia.	ESM35CFB	ESM35CFM
Scope of supply		
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Plastic case	KK50NG	KK50NG
Accessory		
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	

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 Klauke Link® 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		
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 450 x 370 x 105 mm	KKESGM45NG	KKESGM45NG
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2

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.



Cutting

Battery-powered hydraulic cutting tools 18 V

ESGM 452 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 and solid structural steel
- ▶ All tool data in view thanks to display and Klauke Link® App
- ▶ Cutting blades are interchangeable with a snap lock without special tools
- ▶ Optimized cutting head

Characteristics

- Battery system: Makita
- All data can be easily read via Bluetooth
- Closed head with folding lock, 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.
Battery powered hydraulic cutting tool 45 mm dia.	ESGM452CFM
Battery powered hydraulic cutting tool 45 mm dia.	ESGM452CFM0000
Scope of supply	
Makita battery 18 V / 1.5 Ah, Li-Ion	RAL1
Makita quick-charger for 18 V Li-Ion battery	LGL1
Plastic case	KKESGM45NG
Accessories	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)	RAL2
Blade set	ESGM452ESET

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 Klauke Link® 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		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case 450 x 370 x 105 mm	KK120NG	KK120NG
Accessories		
Inner moving blade		ESG45ES1
Outer fixed blade		ESG45EF
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40



Cutting

Battery-powered hydraulic cutting tools 18 V

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 Klauke Link® 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)

Technical data

Head type	Cutter open
Cutting range	max. 50 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		
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 450 x 370 x 105 mm	KKESGM45NG	KKESGM45NG
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2

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		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case 450 x 370 x 105 mm	KK120NG	KK120NG
Accessories		
Inner moving blade		ESG55ES
Outer fixed blade		ESG55EF
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40



Cutting

Battery-powered hydraulic cutting tools 18 V

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 Klauke Link® 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		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)	RAL2	
Makita quick-charger for 18 V Li-Ion battery	LGL1	
Plastic case 450 x 370 x 105 mm	KK120NG	KK120NG
Accessories		
Replacement blade	ES65E	
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40	

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 Klauke Link® App

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Larger cutting area, optimum force transmission due to closed head shape
- Simple and safe: One-button operating concept for controlling all tool functions
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display

Suitable for

- lightly armoured Cu and Al cables

Technical data		
Head type	Guillotine closed	
Cutting range	max. 85 mm dia.	
Cutting force	60 kN	
Cutting time	Depending on material thickness	
Charging time	45 min.	
Weight incl. battery	6.8 kg	
Ambient temperature	-10 °C up to +40 °C	
Item	Part No. Bosch	Part No. Makita
Battery powered hydraulic cutting tool 85 mm dia.	ESG85CFB	ESG85CFM
Scope of supply		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case 450 x 370 x 105 mm	KK120NG	KK120NG
Accessories		
Inner moving blade	ESG85ES1	
Outer fixed blade	ESG85EF1	
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40



Cutting

Battery-powered hydraulic cutting tools 18 V

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 Klauke Link® 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		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40	
Makita quick-charger for 18 V Li-Ion battery	LGL1	
Plastic case 450 x 370 x 105 mm	KK120NG	KK120NG
Accessories		
Replacement blade	ES85E	
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40	

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 Klauke Link® 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		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita quick-charger for 18 V Li-Ion battery		RAL40
Plastic case 450 x 370 x 105 mm		LGL1
Makita battery 18 V / 4.0 Ah, Li-Ion	MK105NG	MK105NG
Accessories		
Inner moving blade	ESG105ES	
Outer fixed blade	ESG105EF	
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40



Cutting

Battery-powered hydraulic cutting tools 18 V

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 Klauke Link® 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		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40	
Makita quick-charger for 18 V Li-Ion battery	LGL1	
Plastic case 450 x 370 x 105 mm	MK105NG	MK105NG
Accessories		
Replacement blade	ES105E	
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40	

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



Cutting

Hand-operated hydraulic cutting tools

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.
Steel carrying case for HSG 45 or HSG 50	MK50
Accessories	
Outer fixed blade	ESG45EF
Inner moving blade	ESG45ES1

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.
Steel carrying case for HSG 85	MK852
Accessories	
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.



Cutting

Hydraulic cutting heads and cutting systems

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.
Carrying bag	TT2
Accessories	
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.
Carrying bag	TT2
Accessories	
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.
Carrying bag	TT2
Accessories	
Replacement blade	ES65E



Cutting

Hydraulic cutting heads and cutting systems

SDG 85/2 Hydraulic cutting head 85 mm dia.



- ▶ High user safety owed to cutting head with bolt interlock
- ▶ Exceptionally light and compact design
- ▶ Cuts copper and aluminium cables with lightweight steel armouring (depending on cable type)

Characteristics

- Closed head with bolt interlock, 360° rotation when not pressurised
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results
- Simple handling

Technical data	
Cutting range	max. 85 mm dia.
Cutting force	60 kN
Operating pressure	max. 700 bar
Length	445 mm
Weight	4.3 kg
Item	Part No.
Hydraulic cutting head 85 mm dia.	SDG852
Scope of supply	Part No.
Carrying bag	TT2
Accessories	
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.
Carrying bag	TT2
Accessories	
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.
Carrying bag	TT2
Accessories	
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.
Carrying bag	TT4
Accessories	
Replacement blade	ES105E



Cutting

Hydraulic cutting heads and cutting systems

SDK 120 Hydraulic cutting head 120 mm dia.



- ▶ Cuts copper and aluminium cables with lightweight steel armouring (depending on cable type)
- ▶ Extremely wide cutting range up to 120 mm dia., also for fine-stranded cables (depending on cable type)
- ▶ Exceptionally light and compact design
- ▶ Safe operations due to high ground stability by double handles

Characteristics

- Open head with quick coupling, 360° rotation when not pressurised
- High stability due to double grip
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible results

Technical data

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

Item	Part No.
Hydraulic cutting head 120 mm dia.	SDK120
Scope of supply	Part No.
Carrying bag	TT4
Accessories	
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.
Hydraulic hose, 2 m	HS22
Steel carrying case	MKU
Accessories	Part No.
Replacement blade	ES105E
Replacement blade	ES120E
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



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

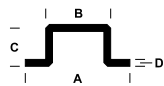


- ▶ For burr-free cutting and punching
- ▶ Less effort needed
- ▶ Includes die plate holder with 5 profiles

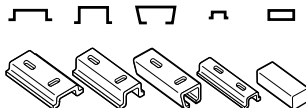
Suitable for

- Punches vertical and horizontal mounting holes 6.4 x 12.0 mm
- With holes for workbench assembly

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



A - 35.0 mm	A - 35.0 mm	A - 34.0 mm	A - 15.0 mm	A - 10.0 mm
B - 27.0 mm	B - 27.0 mm	B - 15.0 mm	B - 10.5 mm	B - 10.5 mm
C - 7.5 mm	C - 15.0 mm	C - 15.0 mm	C - 5.5 mm	C - 3.0 mm
D - 1.0 mm	D - 1.5 mm	D - 1.0 mm	D - 1.0 mm	D - 1.0 mm



Profile conductor cutter Compact



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

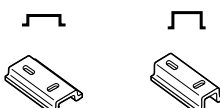
Suitable for

- With holes for workbench assembly
- Manual operation

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



A - 35.0 mm	A - 35.0 mm
B - 27.0 mm	B - 27.0 mm
C - 7.5 mm	C - 15.0 mm
D - 1.0 mm	D - 1.5 mm





Wiring conduit cutter



- ▶ Burr-free cutting even with halogen-free cable ducts
- ▶ 90° angle cutting
- ▶ Protects from injury when not in use

Characteristics

- Simple workbench mounting
- Maintenance free
- Cutting mechanism completely protected

Suitable for

- Standard and halogen-free plastic profile with 2.5 mm wall thickness and up to 125 mm width

Technical data	
Cutting width	125 mm
Dimension	1460 x 250 x 990 mm
Weight	10.5 kg
Length of rail guide	1000 mm
Length of hand lever	600 mm
Wiring duct (wall thickness)	2.5 mm
Item	Part No.
Wiring conduit cutter	50125701
Scope of supply	Part No.
Hand lever	
Fixing device	50115537
Measurement scale	

Cutting die



suitable for

- knot chains
- For stranded conductors up to bis 25 mm² e.g. EN 60228 Class 2
- Copper rails up to 3 mm x 10 mm
- Steel cables and similar materials up to 3 mm

Item	Part No.
Cutting die	S502

THE TOOL RANGE FOR MAXIMUM SAFETY

Integrated Voltage Protection up to 1,000 V





Hydraulic safety tools

4

VDE-battery powered crimping and cutting tools	4.4
VDE-battery powered crimping tools	4.6
VDE-battery powered cutting tools	4.9
Safety cutters	4.14





KLAUKE ORANGE - SAFETY IS A CHOICE WE MAKE ! THINK SAFE. ACT SAFE.

Globally unique

For even more safety, Klauke has now developed the world's first battery hydraulic crimping and cutting tools with Tri-Insulation Barrier technology that provides users with 1,000V protection against electrical shocks.

Whether you work as a panel builder or in utilities:

Think safe. Act safe.

Choose Klauke ORANGE for more safety.



VDE tested and certified to 1,000 V in accordance to the electrical requirements of IEC 60900 and fully certified to IEC 62841-1

In brief

- ▶ Applied voltage at the tool head does not disrupt to tool body
- ▶ Integrated slip-off protection prevents unintentional contact with live parts
- ▶ Housing in signal orange for simple differentiation from standard tools

Klauke ORANGE - Safety is a choice we make.
<https://www.youtube.com/watch?v=Uq6vV79KyhM>



► Much safer operations

Working with utility lines presents a series of challenges: Proximity to potentially live parts, limited space and time pressure.

This is why safety and using the right protection equipment are essential when doing this type of work. With Klauke ORANGE, you can rely on an additional layer of protection, whenever it is not possible to disconnect the circuits or when you may not be aware that you are working on a live circuit.



Accidental touching of live parts is prevented by standard-conforming slip-off protection

► Safe and convenient

Electrical system cannot be de-energized or disconnected in many cases, so working on live cables cannot be avoided. Our Oranges Line of battery powered crimping and cutting tools increase operating comfort and safety significantly in these cases. They are suitable for all applications in the low-voltage area up to 1,000 V: from the installation of cable joints and working on overhead transmission lines to mounting and repairing street lighting or meter systems.

The tried and proven functions of our Next Generation remain in place. Hence you can see all information at a glance, thanks to the integrated display. Orange Line tools also have a continuously rotating tool head.

► Safety cutting tools

The ASSG safety cutting system from Klauke, approved by the trade associates, is able to safely cut live Cu/Al cables with a rated voltage of up to 60 kV, even if a fault occurs. The cutting process is carried out using two powerful and durable 5 Ah Lithium-Ion rechargeable batteries. The remote control ensures increased comfort and optimised control during the cutting operation. The quick coupling located on the ASSG pump allows various cutting heads to be quickly and simply connected to the pre-mounted hydraulic hose.





Hydraulic safety tools

VDE-battery powered crimping tools

EKM 60/22 IS VDE-battery powered hydraulic crimping tool 6 - 300 mm²



- ▶ Housing in signal orange for simple differentiation from standard tools
- ▶ Insulated and VDE certified up to 1,000 V for increased safety when working on potentially voltage-carrying parts
- ▶ Large crimping range up to 300 mm²
- ▶ All tool data in view thanks to the built-in display

Characteristics

- Choose your battery system: Bosch or Makita
- Closed head with bolt interlock, rotatable, flip top style
- Quality assurance via visual and audible signals in case of error
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- Simple and safe: Automatic retraction when operation is complete
- Automatic retract stop (ARS) for positioning control in case of multiple crimps
- Always ready-to-use thanks to battery charge and service display
- All data can be easily read out via Bluetooth

Suitable for

- 22-series interchangeable crimping dies, narrow crimping



Technical data		
Crimping force	60 kN	
Hub	17.5 mm	
Crimping range	6 - 300 mm ²	
Crimping cycle	2 s (for ARS) to 5 s (depending on cross-section)	
Charging time	15 min.	
Weight incl. battery	3.1 kg	
Ambient temperature	-10 °C up to +40 °C	
Item	Part No. Bosch	Part No. Makita
VDE-battery powered hydraulic crimping tool 6 - 300 mm ²	EKM6022ISB	EKM6022ISM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK50IS	KK50IS
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40

Available dies for Series 22 for EKM 60/22 IS

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

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Copper tubular cable lugs and connectors				
Tubular cable lugs and connectors, standard type, tubular cable lugs for switchgear connections		6 - 300		2.91
Insulated cable lugs and compression joints, standard type, Insulated pin terminals		10 - 150		2.91
Tubular cable lugs and connectors for fine stranded conductors		10 - 70		2.92
Tubular cable lugs and connectors for solid conductors		1.5 - 16		2.92
Tubular cable lugs and connectors, Ni, VA				
Stainless steel tubular cable lugs and connectors		10 - 50		2.92
Nickel tubular cable lugs and connectors		10 - 50		2.92
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		2.92
Double compression cable lugs		2 x 70		2.92
Terminals, connectors and pin terminals acc. to DIN, copper				
Solderless terminals (DIN 46234), connectors and pin terminals (DIN 46230) acc. to DIN		10 - 70		2.93
Insulated solderless terminals		10 - 70		2.93
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		2.93
Aluminium compression cable lugs and connectors to DIN				
Aluminium compression cable lugs and connectors to DIN		10 - 300		2.93
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		2.94
Clamps				
Clamps, C-type		10 - 70		2.94
Clamps, H-type		70		2.94
Cable end-sleeves				
Cable end-sleeves, trapezoidal		10 - 240		2.94



Hydraulic safety tools

VDE-battery powered crimping tools

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



- ▶ Housing in signal orange for simple differentiation from standard tools
- ▶ Insulated and VDE certified up to 1,000 V for increased safety when working on potentially voltage-carrying parts
- ▶ Extra large crimping area due to innovative 2-stage telescopic cylinders
- ▶ 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 EN 60228

Additional information

- Certified from 16 mm² onwards



Suitable for	Connection material	Crimping range mm ²	Crimp profile
Copper tubular cable lugs and connectors			
Tubular cable lugs and connectors, standard type, Tubular cable lugs for switch gear connections		10 - 240	
Tubular cable lugs and connectors for fine stranded conductors		10 - 240	
Terminals, connectors and pin terminals acc. to DIN			
Solderless terminals (DIN 46234) connectors and pin terminals (DIN 46230, DIN 46341)		10 - 240	
Aluminum compression cable lugs and connectors			
Aluminum compression cable lugs and connectors acc. to DIN		50 - 240	
Aluminum/copper compression cable lugs and connectors			
Aluminum/copper compression cable lugs and connectors		50 - 240	

Technical data	
Crimping force	30 - 60 kN
Stroke / opening width	35.5 mm
Crimping range Cu	10 - 240 mm ²
Crimping range Al	50 - 240 mm ²
Crimping cycle	2 s (MRS+) to 7 s (depending on cross-section)
Charging time	15 min.
Weight incl. battery	2.6 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita
VDE-battery powered hydraulic crimping tool 10 - 240 mm ²	EKM60IDISB	EKM60IDISM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK50IS	KK50IS
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40

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



- ▶ Housing in signal orange for simple differentiation from standard tools
- ▶ Insulated and VDE certified up to 1,000 V for increased safety when working on potentially voltage-carrying parts
- ▶ High cutting force cuts copper and aluminium cables (also fine stranded)
- ▶ Saves time thanks to innovative opening mechanism
- ▶ All tool data in view thanks to the built-in display

Characteristics

- Choose your battery system: Bosch or Makita
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display
- All data can be easily read out via Bluetooth

Suitable for

- Cu and Al cables (multi and fine stranded) even armoured cable

Technical data		
Head type	cutter open	
Cutting range	max. 50 mm dia.	
Cutting force	38 kN	
Cutting cycle	8 s to 10 s (depending on material thickness)	
Charging time	15 min.	
Weight incl. battery	3.0 kg	
Ambient temperature	-10 °C up to +40 °C	
Item	Part No. Bosch	Part No. Makita
VDE Battery powered hydraulic cutting tool 50 mm dia.	ESM50ISB	ESM50ISM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KKESM50IS	KKESM50IS
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL2



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



- ▶ Housing in signal orange for simple differentiation from standard tools
- ▶ Insulated and VDE certified up to 1,000 V for increased safety when working on potentially voltage-carrying parts
- ▶ High cutting force cuts copper and aluminium cables (also fine stranded)
- ▶ All tool data in view thanks to the built-in display

Characteristics

- Choose your battery system: Bosch or Makita
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display
- All data can be easily read out via Bluetooth

Suitable for

- Cu and Al cables (multi and fine stranded) even armoured cable

Technical data

Head type	cutter open
Cutting range	max. 35 mm dia.
Cutting force	25 kN
Cutting cycle	4 s up to 6 s (depending on material thickness)
Charging time	15 min.
Weight incl. battery	2.9 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita
VDE Battery powered hydraulic cutting tool 35 mm dia.	ESM35ISB	ESM35ISM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KKESM50IS	KKESM50IS
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL2

ESM 25 IS VDE-battery powered hydraulic cutting tool 25 mm dia.



- ▶ Housing in signal orange for simple differentiation from standard tools
- ▶ Insulated and VDE certified up to 1,000 V for increased safety when working on potentially voltage-carrying parts
- ▶ For cutting Al/St cables (ACSR), round materials (Cu, Al, St) as well as armoured cables, steel rods and stay wire
- ▶ Extremely robust design and lightweight
- ▶ All tool data in view thanks to the built-in display

Characteristics

- Choose your battery system: Bosch or Makita
- Open head, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operations
- Always ready-to-use thanks to battery charge and service display
- All data can be easily read out via Bluetooth

Suitable for

- Open wires (ACSR, Aldrey), stay wire and high-tensile stay wire

Technical data

Head type	cutter open
Cutting range	Open wire (ACSR, Aldrey) up to dia. 25 mm, stay wire up to dia. 16 mm, high-tensile 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.



- ▶ 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 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)



Technical data		
Head type	cutter open	
Cutting range	max. 18 mm dia. (depending on cable/wire type)	
Cutting force	23 kN	
Cutting cycle	2 s to 4 s (depending on cable size)	
Charging time	15 min.	
Weight incl. battery	2.1 kg	
Ambient temperature	-10° to +40 °C	
Item	Part No. Bosch	Part No. Makita
VDE battery powered hydraulic cutting tool 20mm dia.	ES20ISB	ES20ISM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK50IS	KK50IS
Accessories		
Bosch Akku 18 V / 5,0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2
Replacement blade	ES20E	ES20E

ES 32 IS VDE battery powered hydraulic cutting tool 32 mm dia.



- ▶ Housing in Signal Orange for simple differentiation from standard tools
- ▶ Insulated and VDE certified to 1000 V for increased safety when working on potentially voltage-carrying parts
- ▶ Slim cutting head - ideal when space is 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

- Multistranded Cu- and Al-cable



Technical data		
Head type	cutter open	
Cutting range	max. 32 mm dia. (depending on cable/wire type)	
Cutting force	15 kN	
Cutting cycle	8 s to 10 s (depending on cable size)	
Charging time	15 min.	
Weight incl. battery	2.0 kg	
Ambient temperature	-10 °C to 40 °C	
Item	Part No. Bosch	Part No. Makita
VDE battery powered hydraulic cutting tool 32mm dia.	ES32ISB	ES32ISM
Scope of supply		
Bosch battery 18 V / 2.0 Ah, Li-Ion	RALB1EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 1.5 Ah, Li-Ion		RAL1
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case	KK50NG	KK50NG
Accessories		
Bosch Akku 18 V / 5,0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2
Replacement blade	ES32E	ES32E



SSG Hydraulic safety cutter with foot pump to max. 105 mm dia.



- ▶ Safety cutter for safe cutting of live Cu/Al cables without steel armouring which, in case of a failure, may carry voltages of up to 60 kV
- ▶ Single-core live cables without steel armouring can be cut under voltage of up to 110 kV/60 Hz

Characteristics

- Two-stage hydraulics
- Manual retract as required
- The cutting head is generally delivered including safety hydraulic hose (10 m)

Technical data	SSGG85	SSG105	SSGG105
Head type	closed (SSKG85)	open (SSK105)	closed (SSGG105)
Cutting range	max. 85 mm dia. (depending on cable type)	max. 105 mm dia. (depending on cable type)	max. 105 mm dia. (depending on cable type)
Operating pressure	625 bar	625 bar	625 bar
Hydraulic oil	Special oil Rivolta S.B.H.11	Special oil Rivolta S.B.H.11	Special oil Rivolta S.B.H.11
Weight	16 kg	19 kg	19 kg
Ambient temperature	-20 °C up to +40 °C	-20 °C up to +40 °C	-20 °C up to +40 °C
Item		Part No.	
Hydraulic safety cutting unit with foot pump max. 85 mm dia.		SSGG85	
Hydraulic safety cutting unit with foot pump max. 105 mm dia.		SSG105	
Hydraulic safety cutting unit with foot pump max. 105 mm dia.		SSGG105	
Scope of supply		Part No.	
Earthing kit		EG1	
Steel carrying case		MKSSG	
Accessories		Part No.	
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
SSKG85	•		
SSK105		•	
SSKG105			•

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 live cables without steel armouring can be cut under voltage of up to 110 kV/60 Hz
- ▶ Powerful 5.0 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	5.0 Ah, Li-Ion	5.0 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.	
Klauke battery 18 V / 5.0 Ah, Li-Ion	RALK1850	
Klauke charger for 18 V Li-Ion batteries	LGLK18EU	
Plastic case for ESSG65L and ESSG105L	KKESSGL	
Plastic case for ESSGG85L	KKESSGG85L	
Earthing kit	EG1	
Accessories	Part No.	
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
SSKG85	•	
SSK105		•



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 live cables without steel armouring can be cut under voltage of up to 110 kV/60 Hz
- ▶ Very wide opening width to 120 mm
- ▶ Safe and fast operations by using remote control and 10 m long safety hydraulic hose

Characteristics

- 2-stage hydraulic system with fast feed and power stroke
- Quick motor stop for high user safety
- Electronic control
- 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	ASSG85L	ASSG105L	ASSGG105L	ASSG120SL
Head type	closed	open	closed	open
Cutting range	max. 85 mm dia.	max. 105 mm dia.	max. 105 mm dia.	max. 120 mm dia.
Operating pressure	max. 630 bar	max. 630 bar	max. 630 bar	max. 630 bar
Battery voltage	18 V	18 V	18 V	18 V
Battery capacity	2 x 5 Ah Li-Ion	2 x 5 Ah Li-Ion	2 x 5 Ah Li-Ion	2 x 5 Ah Li-Ion
Charging time	45 min.	45 min.	45 min.	45 min.
Max. oil volume	approx. 750 ml	approx. 750 ml	approx. 750 ml	approx. 750 ml
Hydraulic oil	Shell Naturelle HF-E 15	Shell Naturelle HF-E 15	Shell Naturelle HF-E 15	Shell Naturelle HF-E 15
Weight incl. battery	2 batteries approx. 6.4 kg	2 batteries approx. 6.4 kg	2 batteries approx. 6.4 kg	2 batteries approx. 6.4 kg
Ambient temperature	-20 °C up to +40 °C	-20 °C up to +40 °C	-20 °C up to +40 °C	-20 °C up to +40 °C
Dimension	330 x 160 x 280 mm	330 x 160 x 280 mm	330 x 160 x 280 mm	330 x 160 x 280 mm

Item	Part No.	
Battery powered hydraulic safety cutter, max. 85 mm dia.	ASSG85L	
Battery powered hydraulic safety cutter, max. 105 mm dia.	ASSG105L	
Battery powered hydraulic safety cutter, max. 105 mm dia.	ASSGG105L	
Battery powered hydraulic safety cutter, max. 120 mm dia.	ASSG120SL	
Scope of supply	Part No.	Quantity
Makita battery 18 V / 5.0 Ah, Li-Ion (90 Wh)	RAL4	2
Makita quick-charger for 18 V Li-Ion battery	LGL1	1
Earthing kit	EG1	1
Carrying strap with shoulder padding	TG3	1
Remote control with 1.5 m cable	HTA4	1
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

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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





Punching

Round and special shape punches

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 22.5 mm / Pg 16, 2.5 mm mild steel and 2 mm V2A

Punch size			Max. Material thickness	Individual parts for manual operation					Draw studs + Accessories for hydraulic units				Complete unit
True dimension	Standard size								Draw studs		Accessories		
	mm	Pg							ISO	mm (St37)	Punch	Die	Draw stud with ball bearing
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 thickness	Individual parts for manual operation					Draw studs + Accessories for hydraulic units				Complete unit	
True dimension	Standard size								Draw studs		Accessories			
														
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	52085649	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			
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	52085691	52085692	50319639
28.3	Pg 21		2.0	50319736	50320068	50000420	52085691	52042827	50319930
30.5			2.0	50362844	50362798	50000420	51300430	52042827	50365088
30.5			3.5		50362780	50040405	52085691	52085692	50602462
32.5		ISO 32	3.5	50351699	50351680	50040405	52085691	52085692	50351796
34.6			3.5		50040111	50040405	52085691	52085692	50319647
37.0	Pg 29		3.5	50319752	50320084	50040405	52085691	52085692	50319957
40.5		ISO 40	3.5	50351583	50351591	50040405	52085691	52085692	50351800
43.2			3.5		50040138	50040405	52085691	52085692	50319655
47.0	Pg 36		3.5	51319760	51320090	52085688	52085691	52085692	50319965
49.6			3.5		50040618	52085688	52085691	52085692	50319663
50.8		ISO 50	3.5	50351605	50351613	52085688	52085691	52085692	50351818
54.0	Pg 42		3.5	50361724	50361732	52085688	52085691	52085692	50361716
60.0	Pg 48		3.5	50319787	50320114	52085688	52085691	52085692	50319981
61.5			3.5	52085668	52085666	52085688	52085691	52085692	52085671
64.0		ISO 63	3.5		50351664	52085688	52085691	52085692	50351826

SLUG SPLITTER® punch system (stainless steel)



- ▶ Special alloy for maximum service life
- ▶ Split slugs fall free and can be disposed of easily

Suitable for

- Stainless steel (V2A), mild steel (St37), plastic and aluminium up to 3.5 mm thick

Operation

- Hydraulic

Predrilling

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

Scope of supply

- Complete system including punch and die

Additional information

- * = Slug Splitter SC® - self-centring

Punch size			Max. Material thickness	Individual parts for manual operation		Draw studs	Complete unit
True dimension	Standard size						
	mm	Pg	ISO	mm (V2A)	Punch	Die	Pump, hand and battery powered
15.2	Pg 9		2.5	50311174	50311263	50294512	50069519
16.2	ISO 16		2.5	50045997	50045989	50294512	50069527
18.6	Pg 11		2.5	50311190	50311280	50294512	50069535
20.4	Pg 13	ISO 20	2.5	50311204	50311298	50294512	50069543
22.5	Pg 16		3.5	50281542	50281550	50294512	50069551
25.4	ISO 25		3.5	50046020	50046012	50294512	50069560
28.3	Pg 21		3.5	50281569	50281577	50294520	50069578
30.5			3.5	50364901	50364898	50294520	50069586
32.5	ISO 32		3.5	50046055	50046039	50294520	50069594
34.6			3.5	50281585	50281593	50294520	
37.0	Pg 29		3.5	50311220	50311352	50294520	50069608
40.5	ISO 40		3.5	50046080	50046071	50294520	50069616
43.2			3.5	50281607	50281615	50294520	
47.0	Pg 36		3.5	50311239	50311310	50294520	50069624
49.6			3.5	50281623	50281631	50294520	
50.8	ISO 50		3.5	50046110	50046098	50294520	50069632
54.0	Pg 42		3.5	50311247	50311328	50294520	50069640
60.0	Pg 48		3.5	50311255	50311336	50294520	50069659
61.5			3.5	50281658	50281666	50294520	
64.0	ISO 63		3.5	50046144	50046136	50294520	50069667



Punching

Round and special shape punches

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.
Speed Punch™ Speed lock and draw stud 9.5 mm for ISO 16/20/25 and PG 16								52055439
Speed Punch™ Speed lock and draw stud 19.0 mm for ISO 32/40/50/63								52055440

Draw studs with manual drivers

► High wear resistance

Order info

- To increase the service life, we recommend greasing the draw studs with Greenlee installation paste no. 50115472
- Sizes given are diameter x length
- Subject to tolerance deviations



Size	Part No.
9.5 x 40 mm	50000420



Size	Part No.
6.5 x 35 mm	50042181



Size	Part No.
11.1 mm x 76 mm	52085686



Size	Part No.
28.6 x 190 mm	52085694



Size	Part No.
19 x 140 mm	50041886



Size	Part No.
19 x 87 mm	52085688



Size	Part No.
19 x 55 mm	50040405



Punching

Round and special shape punches

Draw studs for hydraulic drivers

Order info

- To increase the service life, we recommend greasing the draw studs with Greenlee installation paste no. 50115472
- Sizes given are diameter x length
- Subject to tolerance deviations
- Draw stud long, for use with LS100Flex, 767 and 1725 hydraulics (746A punching head)
- Draw stud short, for use with LS50Flex, 767 and Quick Draw hydraulics



Size	Part No.
19 x 28,6 x 143 mm (long)	52085693
19 x 28,6 x 124mm (short)	52093902



Size	Part No.
9.5 x 71 mm	51300430



Size	Part No.
11.1 mm x 19mm, 108 mm (short)	52085690
11.1 mm x 19 mm, 127mm (long)	52085689



Size	Part No.
Adapter 19 mm to 28.6 mm	50031708



Adapter

Size	Part No.
19 x 48 mm (Inside 9.5 mm)	50339672
19 x 48 mm (Inside 6.3 mm)	50601148
19 x 48 mm (Inside 12.7 mm)	50601679



Size	Part No.
19 x 122 mm (short)	52085691
19 x 143 mm (long)	52085692



Size	Part No.
19 x 140 mm for Slug Splitter®	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, LS50FLEX
- ** = only for use with hydraulic punch drivers 52084920, 52084941, LS50FLEX

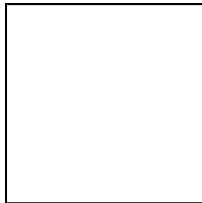
Punch size A x B	Max. Material thickness		Individual parts f. manual operation			Adapter for hydr. punch driver	Mounting hole-dia.	Complete unit
								
mm	mm (St37)	Operating mode	Draw studs	Ball bearing nut	Counter nut	Part No.	mm	Part No.
11.1 x 22.2	1.5	Hand/Hydr.	50601156	50601202	50052446	50601148	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
68.0 x 138.0	2.0	Hydr.**	52046100		52046101		30.2	50600745



Punching

Round and special shape punches

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

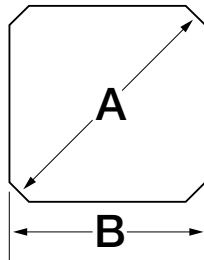
- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

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

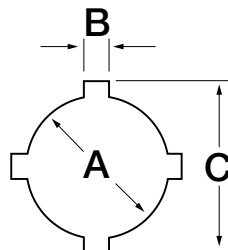
- 12.7 mm dia. pilot drill 50344102

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

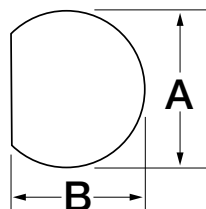
Punch size A x B	Max. Material thickness		Individual parts for manual operation			Adapter for hydr. punch driver	Mounting hole-dia. mm	Complete unit
								
mm	mm (St37)	Operating mode	Draw studs	Ball bearing nut	Counter nut	Part No.	mm	Part No.
22.5 x 3.2 x 25.4	2.0	Hand/Hydr.	50184369	50601652	50602586	50601679	15.9	50602381
30.5 x 4.8 x 36.0	3.0	Hand/Hydr.	50184369	50601652	50602586	50601679	15.9	50602420



Punching

Round and special shape punches

„D“ shaped punch



Suitable for

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

Operation

- Manual / hydraulic

Predrilling

- 12.7 dia. mm pilot drill 50344102

Scope of supply

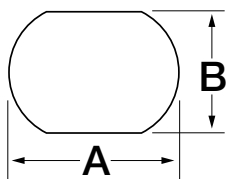
- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

Additional information

- * 50610809 and 50610830 available only as punch unit

Punch size A x B	Max. Material thickness		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

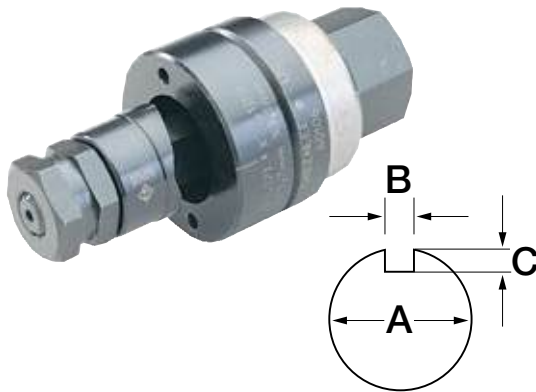
- Punch unit including punch, die, draw stud, counter nut and ball-bearing nut

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

Keyway punch



Suitable for

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

Operation

- Manual / hydraulic

Predrilling

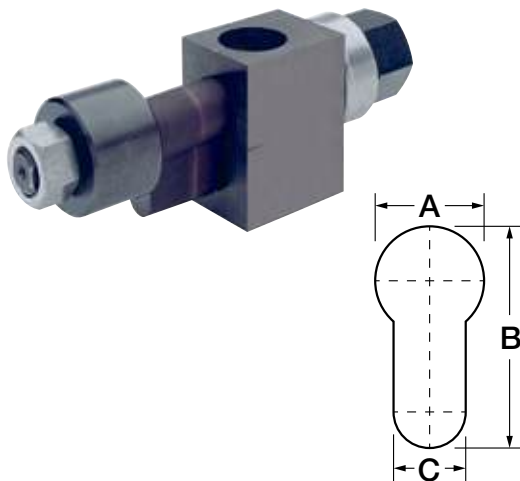
- 23.8 mm dia. pilot drill 50300083

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

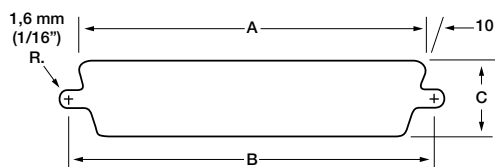
Punch size A x B x C	Max. Material thickness		Individual parts for manual operation				Adapter for hydr. punch driver	Mounting hole-dia. mm	Komplettlocher
									
mm	mm (St37)	Operating mode	Draw studs	Ball bearing nut	Counter nut	Spacer bushing	Part No.	mm	Art.-Nr.
17.0 x 33.3 x 10.5	2.0	Hand/Hydr.	50053043	50347330	90500113	50053051	50339672	12.7	50053078



Punching

Round and special shape punches

Sub-Min „D“ punch



Suitable for

- Mild steel (St37) up to 2.0 mm and aluminium up to 3.5 mm thick
- Front or rear mounting

Operation

- Manual / hydraulic

Predrilling

- 12.7 mm dia. pilot drill 50344102

Scope of supply

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

Standard	Number Pole		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

Item	Punch size A x B	Max. Material thickness	Operating mode	Individual parts for manual operation		Mounting hole-dia.	Complete unit
							
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 112 mm	46.0 x 112.0	3.0	Hydraulic	52046100	52046101	30.2	52033832



Draw studs for shaped punch

Order info

- To increase the service life, we recommend greasing the draw studs with Greenlee installation paste no. 50115472
- Sizes given are diameter x length
- Subject to tolerance deviations



Size	Part No.
19x150 mm	52046100



Size	Part No.
9.5 x 135 mm	50053043



Size	Part No.
12.7 x 117 mm	50601172



Size	Part No.
12.7 x 117 mm	50601660



Size	Part No.
6.3 x 87 mm	50601156



Size	Part No.
9.5 x 88 mm	52020113

SAVE TIME AND MONEY - WITH EVERY PUNCH!

From the leaders in knockout technology comes the new SPEED PUNCH™ System. The patent pending “no-thread” design eliminates cross-threading, while the innovative SPEED LOCK mechanism quickly secures the punch in place. This means longer tool life and faster punches, saving you time and money on the job. SPEED PUNCH™ is available in ISO 16 to ISO 63 and PG 16 metric sizes and two kit configurations.

UP TO
3X
FASTER

**SPEED
PUNCH**



5

► Speed Punch - saves time and money

- SPEED LOCK mechanism quickly secures the entire system in place: Punch more holes in less time.
- “No-thread” punch design quickly and easily slides on/off draw stud.
- The fastest punch system on the market today.
- Matched die heights eliminate need for additional spacers.
- Fewer extra parts to lose on the job site.
- No more thread damage and costly down time.

► Simplified punching processes

- Standard draw stud end
- Works with your existing hydraulic and battery-operated punch drivers.

LS50 FLEX

- In combination with the hydraulic punching tool LS 50 Flex it represents the state of the art in performance and speed.



THE ADVANTAGE IN PUNCHING - PUNCHING TOOLS AND SETS

Greenlee punching tools are quick. No matter whether for straight punchings in steel (St37) and stainless steel or confined areas with swivelling head: Greenlee equips you with the right set for every situation. Combined with the Speed Punch, the quickest and most-efficient punching system in our range puts you in pole position. Take the lead in punching!

**NEXT
GENERATION**

In brief

- ▶ Always ready for use due to short battery-charging times
- ▶ Heads rotatable through 360° for optimised work ergonomics
- ▶ No fatigue due to low weight
- ▶ 3x quicker punching with the Speed Punch system



► The fast one: LS 50 FLEX

The LS 50 FLEX is not just fast. It is integrally designed and produced. It is fully re-charged and ready for use in just 22 minutes. Ergonomic design and a balanced centre of gravity support you when working over long periods of time. The head rotates through 360° and reliably punches in confined areas. Combine the LS 50 FLEX with the Speed Punch system for even faster operations. There's no faster punching than this.

- Can be used for steel (St37) and stainless steel
- Ergonomic design for effortless operations
- Automatic final switch-off for even longer service life of the hole punch
- 22 min. to recharge the battery
- Integrated LED illuminates the work position
- Head rotates through 360°
- Can be combined with Speed Punch punch system for maximum punch speed



► Speed Punch set

Punching is up to three times quicker with the Speed Punch. The threadless stamp profile can be quickly replaced via a clamp technology - no more screwing the counter nut on and off. The set contains everything you need for the Speed Punch.

- Speed Punch set ISO 16 - 63, including accessories for hydraulic activation
- For all standard steel sheet
- High-quality plastic transport case for optimum product protection

► Slug Buster® set ISO 16 - 40

The Slug Buster from Greenlee separates the punch remnants automatically so that they fall from the die by themselves. No jamming or time-consuming removal of the punch remnants. The set comprises all components of the punching system.

- Slug Buster system including accessories
- Including ratchet wrench for manual activation
- Pilot drill included
- High-quality plastic transport case for optimum product protection



Punching

Punching tools and sets

KWSET, Keyway punch for hydraulic use



Characteristics

- Compatible with all Greenlee hand-operated and battery powered hydraulic punches
- Simple handling

suitable for

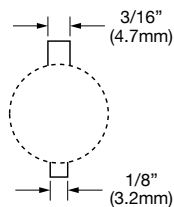
- Mild steel (St37) to 2.5 mm thickness
- Stainless steel to 2.5 mm thickness
- 19mm, 3/4" threaded draw stud

Additional information

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

Item	Part No.
KWSET	52086978
Acessory	Part No.
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.
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.
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 122 mm	52085691
Spacer, short	50032488
Adapter 19.0 x 48 mm with internal thread 9.5 mm	50339672
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.
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 122 mm	52085691
Spacer, short	50032488
Adapter 19.0 x 48 mm with internal thread 9.5 mm	50339672
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.
Draw stud for hydraulic operation 9.5 mm to 19 mm, 122 mm	52042827
HSS Co5 step bit	52049371
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		
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
Draw stud for hydraulic operation 19.0 x 122 mm	52085691	52085691
Spacer 22 mm, short	50032488	50032488
HSS Co5 step bit	52049371	52049371
Adapter 19.0 x 48 mm with internal thread 9.5 mm	50339672	50339672
Draw stud for punch with hydraulic operation 9.5 x 71 mm	51300430	51300430
Plastic case	KK50FLEXNG	KK50FLEXNG
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)		RAL2
Variants		
L-BOXX with flexible battery powered hydraulic punch LS50FLEXCFB	LBOXXLS50FLEXCFB	
L-BOXX with flexible battery powered hydraulic punch LS50FLEXCFM		LBOXXLS50FLEXCFM



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		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Makita quick-charger for 18 V Li-Ion battery		LGL1
Draw stud for hydraulic operation 19.0 x 137 mm	52085692	52085692
Draw stud for hydraulic operation 9.5 mm to 19 mm, 122 mm	52042827	52042827
Spacer, short	50032488	50032488
HSS Co5 step bit	52049371	52049371
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.
Hydraulic cylinder	50170910
767 Hydraulic hand pump	50132849
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.
Hydraulic cylinder	50170910
1725 Hydraulic foot pump	50313533
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.
Slug Buster® punch set ISO 16/20/25/32/40	50356178SET
Draw studs for manual operation 9.5 x 40 mm	50000420
Draw studs for manual operation 19.0 x 55 mm	50040405
Ratchet	50349414
Kwik Stepper™ step bit 9.7 mm	50360183
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	50366904SET
Scope of supply	Part No.
Slug Buster® punch set PG 9 - 21, 30.5 mm	50323989SET
Draw studs for manual operation 9.5 x 40 mm	50000420
Ratchet	50349414
Kwik Stepper™ step bit 9.7 mm	50360183
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.
Slug Buster® punch set ISO 16 - 63	50068920SET
Draw studs for manual operation 9.5 x 40 mm	50000420
Draw studs for manual operation 19.0 mm x 75 mm	50040421
Ratchet	50349414
Kwik Stepper™ step bit 9.7 mm	50360183
Plastic case	50366858



Punching

Punching tools and sets

Slug Buster® punch set for all applications from PG 9 - 48 and 30.5 mm



Suitable for

- Mild steel (St37), plastic and aluminium up to 3.5 mm

Operation

- Manual

Predrilling

- Draw stud 9.5 mm dia., pilot drill 9.7 mm dia. 50360183
draw stud 19.0 mm dia., pilot drill 20.5 mm dia. 50344030

Item	Part No.
Slug Buster® punch set PG 9 to PG 48 and 30.5 mm	50366912SET
Scope of supply	Part No.
Draw studs for manual operation 9.5 x 40 mm	50000420
Draw studs for manual operation 19.0 x 55 mm	50040405
Ratchet	50349414
Slug Buster® punch set PG 9 - 48, 30.5 mm	50328034SET
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.
Punch and die ISO 16 (16.2 mm)	52055431
Punch and die ISO 20 (20.4 mm)	52055432
Punch and die ISO 25 (25.4 mm)	52055434
Punch and die ISO 32 (32.5 mm)	52055435
Punch and die ISO 40 (40.5 mm)	52055436
Speed Lock and draw stud 9.5 mm for ISO 16/20/25 and PG 16	52055439
Speed Lock and draw stud 19.0 mm for ISO 32/40/50/63	52055440
Plastic case	KKSPIS016B63
Accessories	Part No.
Plastic case	KKSPIS016B63

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.
Punch and die ISO 16 (16.2 mm)	52055431
Punch and die ISO 20 (20.4 mm)	52055432
Punch and die ISO 25 (25.4 mm)	52055434
Punch and die ISO 32 (32.5 mm)	52055435
Punch and die ISO 40 (40.5 mm)	52055436
Punch and die ISO 50 (50.8 mm)	52055437
Punch and die ISO 63 (64.0 mm)	52055438
Speed Lock and draw stud 9.5 mm for ISO 16/20/25 and PG 16	52055439
Speed Lock and draw stud 19.0 mm for ISO 32/40/50/63	52055440
Plastic case	KKSPISO16B63
Accessories	Part No.
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.
Slug-Splitter® punch (stainless steel) 16.2 mm	50069527
Slug-Splitter® punch (stainless steel) 20.4 mm	50069543
Slug-Splitter® punch (stainless steel) 25.4 mm	50069560
Slug-Splitter® punch (stainless steel) 32.5 mm	50069594
Slug-Splitter® punch (stainless steel) 40.5 mm	50069616
Draw stud for hydraulic operation 11.1 mm to 19 mm, 108 mm	50294512
Draw stud for hydraulic operation 19 x 140 mm	50294520
Plastic case	KKSSIS016B63

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.
Slug-Splitter® punch (stainless steel) 16.2 mm	50069527
Slug-Splitter® punch (stainless steel) 20.4 mm	50069543
Slug-Splitter® punch (stainless steel) 25.4 mm	50069560
Slug-Splitter® punch (stainless steel) 32.5 mm	50069594
Slug-Splitter® punch (stainless steel) 40.5 mm	50069616
Slug-Splitter® punch (stainless steel) 50.8 mm	50069632
Slug-Splitter® punch (stainless steel) 64 mm	50069667
Draw stud for hydraulic operation 11.1 mm to 19 mm, 108 mm	50294512
Draw stud for hydraulic operation 19 x 140 mm	50294520
Plastic case	KKSSIS016B63

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.
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 122 mm	52085691
Spacer, short	50032488
Adapter 19.0 x 48 mm with internal thread 9,5 mm	50339672
Slug Buster® punch set PG 9 - 21, 30.5 mm	50323989SET
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.
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 122 mm	52085691
Spacer, short	50032488
Adapter 19.0 x 48 mm with internal thread 9,5 mm	50339672
Slug Buster® punch set PG 9 - 21, 30.5 mm	50323989SET
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.
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
Spacer, short	50032488
Adapter 19.0 x 48 mm with internal thread 9,5 mm	50339672
Slug Buster® punch set ISO 16/20/25/32/40	50356178SET
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.
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 122 mm	52085691
Spacer, short	50032488
Adapter 19.0 x 48 mm with internal thread 9,5 mm	50339672
Slug Buster® punch set ISO 16/20/25/32/40	50356178SET
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.
Slug Buster® punch set ISO 16/20/25/32/40	50356178SET
Draw stud for hydraulic operation 9.5 mm to 19 mm, 122 mm	52042827
Draw stud for hydraulic operation 19.0 x 122 mm	52085691
Spacer, short	50032488
HSS Co5 step bit	52049371
Plastic case	KK52034233

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.
Plastic case	KKIS016B63R

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.
Plastic case	KKIS016B63R



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.
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.
Plastic case	KKPG9B48



FOR DEEP INCISIONS - HOLE SAWS

Clear the way for cables and electrical connections. Our Greenlee hole saws offer a long-term precise solution. Reinforced back plate reduces vibrations. Saving you effort and ensuring precise concentricity. HSS bi-metal hole saws are suitable for processing steel sheet, cast iron, brass and other materials.



In brief

- ▶ Reduced vibrations thanks to reinforced back plate
- ▶ Long service life due to high-performance steel
- ▶ Suitable for numerous materials
- ▶ For multi-functional use, please note our universal tools

► HSS bi-metal hole saws

No material is safe from the HSS bi-metal hole saws. Very hard high-performance steel (M 42) for clean and reliable prolonged operation.

- Precise cut with positive pitch
- Reinforced back plate reduces vibrations
- High true running accuracy

- Cooling slots for low heat build-up
- Saws up to a cut depth of 41.3 mm
- Improved service life due to tooth hardness Rc65-68
- Suitable for steel sheet, cast iron, brass, fibreglass, wood and plastic



► Set of hole saws: HSS bi-metal hole saw set

The hole saw set gives you all standard sizes tidily combined. Well sorted and perfectly protected.

- All standard sizes of hole saws
- Manufactured from M42 high-performance steel
- Including accessories
- Securely stowed in a robust case





HSS Bi-metal hole saws



- ▶ Vibration-reduction and high true running accuracy due to thick back section
- ▶ High-quality serration easily assured, precise cut
- ▶ Cooling slots ensure low heat build-up
- ▶ No canting when sawing

Characteristics

- High-quality, rake variable pitch design provides faster, easier cutting
- High true running accuracy
- Max. cutting depth 41.3 mm
- Tooth hardness Rc 65 - 68

Suitable for

- Mild steel, cast iron, brass, aluminium, fibreglass, wood, VA sheet and plastic

Additional information

- Arbors have to be ordered separately, not included in scope of supply

Punch size mm	Standard size Pg	Standard size ISO	Weight g	Recommended cutting speed r.p.m. for						Part No.
				steel sheet	tool and stainless steel	cast iron	non-ferrous metal	aluminium	wood	
14			46	580	300	400	790	900	800	50191314
15			46	580	300	400	790	900	800	52057722
16	Pg 9	ISO 16	46	550	275	365	730	825	760	52057723
17			46	500	250	330	665	750	720	52057724
18			46	500	250	330	665	750	720	52057725
19	Pg 11		46	460	230	300	600	690	680	52057726
20		ISO 20	46	445	220	290	580	660	640	52057727
21	Pg 13		46	425	195	280	560	635	580	52057728
22	Pg 16		46	390	195	260	520	585	560	52057729
23			46	380	190	250	510	570	540	52057730
24			46	370	185	245	494	555	520	52057731
25		ISO 25	46	350	175	235	470	525	500	52057732
26			46	325	160	215	435	480	500	52057733
27			46	300	150	200	400	450	450	52057734
28			46	300	150	200	400	450	450	52057735
29	Pg 21		91	285	145	190	380	425	430	52057736
30			91	270	140	180	360	410	410	52057737
32		ISO 32	91	270	140	180	360	410	410	52057738
33			46	250	125	165	330	375	370	52057739
35			46	240	120	160	315	360	30	52057740
36			91	240	120	160	315	360	30	52057741
37	Pg 29		91	230	115	150	300	345	330	52057742
38			91	220	110	145	290	330	310	52057743
40		ISO 40	91	210	110	140	280	315	290	52057744
41			91	205	105	135	270	305	270	52057745
42			137	205	105	135	270	305	270	52057746
43			91	195	100	130	260	295	250	52057747
44			91	190	95	125	250	285	230	52057748
45			91	190	95	125	250	285	230	52057749
46			137	180	90	120	240	270	210	52057750
48	Pg 36		91	180	90	120	240	270	210	52057751
50		ISO 50	91	170	85	115	230	255	200	52057752
51			137	165	80	110	220	245	200	52057753

Punch size mm	Standard size Pg	Standard size ISO	Weight g	Recommended cutting speed r.p.m. for						Part No.
				steel sheet	tool and stainless steel	cast iron	non-ferrous metal	aluminium	wood	
53			137	160	80	105	210	240	190	52057755
54	Pg 42		137	160	80	105	210	240	190	52057756
55			137	150	75	100	200	225	185	52057757
57			227	150	75	100	195	225	185	52057758
59			137	140	70	95	190	220	180	52057760
60	Pg 48		137	135	70	90	180	205	180	52057761
63		ISO 63	182	130	65	85	175	200	175	52057762
64			182	130	65	85	175	200	175	52057801
65			182	130	65	85	170	195	170	52057763
67			182	125	60	80	160	185	165	52057764
68			182	125	60	80	160	185	160	52057765
70			182	120	55	80	160	180	160	52057766
73			182	115	55	75	150	170	150	52057767
74			182	115	55	75	150	170	150	52057768
75			227	115	55	75	150	170	150	52057769
76			227	110	55	70	140	165	145	52057770
79			227	120	55	70	140	165	165	52057802
80			227	110	55	70	140	165	145	52057771
83			273	105	50	70	140	155	140	52057773
86			273	100	50	65	130	150	135	52057774
89			273	95	45	65	130	145	130	52057775
92			273	95	45	60	120	130	120	52057776
95			318	95	45	60	120	135	110	52057777
98			318	90	40	60	120	135	110	52057778
102			318	85	10	55	110	130	100	52057779
105			363	80	40	55	110	120	110	50191772
108			363	80	40	55	110	120	110	50191780
111			363	80	40	50	100	120	110	50191799
114			409	75	40	50	100	105	100	50191802
121			499	75	35	50	95	95	100	50191810
127			545	65	35	45	90	90	100	50191829
140			545	60	35	35	85	85	100	50191837
152			636	55	35	35	75	75	100	50191845
168			701	55	35	35	68	65	100	52057803
177			728	55	35	35	65	65	100	52057804
210			820	55	35	25	55	55	100	52057805

HSS Bi-metal hole saw set



- ▶ Saves time thanks to low vibration and heat development
- ▶ Variable pitch for an uniform cut
- ▶ Requires minimal effort when drilling

Characteristics

- High true running accuracy
- Less effort when cutting

Suitable for

- Metal, brass, fibreglass, non-ferrous metal, cast iron, aluminium, wood and plastics, stainless steel sheet

Item	Part No.
HSS bi-metall hole saw set Elektro II	52059292SET
HSS bi-metal universal hole saw set	52059293SET
HSS bi-metal hole saw set ISO 16 to 63	50069497SET
HSS bi-metal plumbing hole saw set	52059294SET
HSS bi-metal hole saw set (830 PG)	50292099SET
HSS bi-metal electrical hole saw set	52059295SET
Electro set with countersink 35/68/75 mm	50125630SET

Description	Nominal size mm	Standard size		Hole set						
		Pg	ISO	52059292SET Elektro II	52059293SET Universal	50069497SET ISO 16-63	52059294SET Plumbing	50292099SET 830PG	52059295SET Standard	50125630SET Elektro
Bi-metal hole saw	16	Pg 9			•			•	•	
	17		ISO 16			•				
	19	Pg 11			•		•	•	•	
	21	Pg 13	ISO 20			•		•		
	22	Pg 16		•	•			•	•	
	24						•			
	25		ISO 25		•	•				
	29	Pg 21		•	•		•	•	•	
	30							•		
	33		ISO 32			•				
	35			•	•				•	•
	37	Pg 29						•		
	38				•		•			
	41		ISO 40			•				
	44			•	•		•		•	
	48	Pg 36						•		
	51		ISO 50	•	•	•				
	52								•	
	57						•		•	
	60	Pg 48						•		
	63		ISO 63	•	•	•				
	67						•		•	
	68			•						•
	75									•
	76				•					
Countersink for Hole Saw 68 mm										•
Arbor 14 to 30 mm				•	•	•	•	•	•	
Arbor 32 to 152 mm				•	•	•	•	•	•	•
Case				•	•	•	•	•	•	•

Electro set with countersink



Characteristics

- Countersink with two specially-hardened cutting teeth

Suitable for

- Steel, non-ferrous metal, aluminium, cast iron, stainless steel, wood, plastic and building materials

Scope of supply

- Consisting of hole saws 35 mm, 68 mm, 75 mm, countersink for 68 mm hole saw, arbor with pilot drill and counter nut for hole saws 32 - 152 mm and spare HSS pilot drill 6.35 mm dia.

Item	Part No.
Electro set with countersink 35/68/75 mm	50125630SET
Scope of supply	Part No.
HSS bi-metal hole saw 35 mm	52057740
HSS bi-metal hole saw 68 mm	52057765
HSS bi-metal hole saw 75 mm	52057769
Countersink for hole saws	52033839
Arbor for HSS bi-metal hole saws 8.6 mm	52057781
Plastic case	52059258

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



Suitable for

- Sizes from 14 - 30 mm

Item	Part No.
Arbor 6.3 mm	50371576
Arbor for HSS bi-metal hole saws 7.9 mm	50385224
Arbor 8.6 mm	52057780
Arbor 11.1 mm	50371550

Arbor for HSS bi-metal hole saws 32 - 152 mm



Suitable for

- Sizes from 32 - 51 mm
- Sizes from 32 - 152 mm

Item	Part No.
Arbor 7.9 mm for HSS bi-metal hole saws 32 - 51 mm	50371541
Arbor 8.6 mm for HSS bi-metal hole saws 32 - 152 mm	52057781
Arbor 11.1 mm for HSS bi-metal hole saws 32 - 152 mm	50371568

SDS arbor for HSS bi-metal hole saws



Suitable for

- Sizes from 32 - 152 mm
- Sizes from 14 - 30 mm

Item	Part No.
SDS arbor for HSS bi-metal hole saws 14 - 30 mm	50069691
SDS arbor for HSS bi-metal hole saws 32 - 152 mm	50069292

Replaceable pilot drill for arbor HSS bi-metal hole saws



Item	Part No.
Replaceable pilot drill for arbor HSS bi-metal hole saws	52057782



SIMPLE DRILLING – EVERYTHING IN ONE OPERATION

Greenlee bits are produced using the latest CNC technology. The benefit to you is clear: Clean cutting edges produce longer and better cutting operations from the very first use. That saves you effort. The two-sided deburring of the edge breaker saves you time. The Rotastop system on the shank prevents the bit from slipping through in the chuck. That's how drilling is done today.



In brief

- ▶ Perfect cutting performance in the first pass
- ▶ Rotastop prevents the bit slipping through
- ▶ Split point requires less effort

► Kwik Stepper with Rotastop

Years of experience and development have gone into this bit. The Kwik Stepper drills not only burr-free with optimum swarf removal, the spiral groove also reduces heat build-up during the drilling operation. This makes the Kwik Stepper especially durable. The Rotastop system holds the bit in place - without slipping through. Additionally, the split point reduces your effort during the drilling operation. Great performance from just one bit.

- All required drilling ranges in one tool
- Rotastop for maximum torque transmission
- Quick bit change
- No slipping through in the chuck
- Spiral groove for improved cutting performance
- Two-sided burr removal
- Can be used for sheet, pipes, non-ferrous metals, stainless steel and plastics

► Performance in the set: Kwik Stepper set of step bits

To keep you flexible while drilling, we have combined all standard step bits in a practical set and accommodated them in a robust plastic box. Everything to hand.

- All common step bits
- Clear assignment of the bit through laser scaling of the step bit
- Robust plastic box with integrated pop-up hinge
- Easy to transport and store





Kwik Stepper™ step bit



- ▶ Minimum burr
- ▶ Long service life
- ▶ Good torque transmission
- ▶ Less effort when drilling

Suitable for

- Sheet, pipe, NF metal and plastic

Item	Drilling range dia. mm	Step sizes dia. mm	Total length mm	Number of steps	Shank dia. mm	Part No.
Kwik Stepper™ step bit 3.2 - 12.7 mm	3.2 - 12.7	3.2 / 4.0 / 4.8 / 5.6 / 6.4 / 7.1 / 7.9 / 8.7 / 9.5 / 10.3 / 11.1 / 11.9 / 12.7	80	13	6.34	52084123
Kwik Stepper™ step bit 4.8 - 12.7 mm	4.8 - 12.7	4.8 / 6.4 / 7.9 / 9.5 / 11.1 / 12.7	80	6	6.4	52084124
Kwik Stepper™ step bit 22.2 mm	22.2	22.2	85	1	9.5	52084128
Kwik Stepper™ step bit 4.8 - 22.2 mm	4.8 - 22.2	4.8 / 6.4 / 7.9 / 9.5 / 11.1 / 12.7 / 14.3 / 15.9 / 17.5 / 19.1 / 20.6 / 22.2	85	12	9.5	52084129
Kwik Stepper™ step bit 12.7 - 28.6 mm	12.7 - 28.6	12.7 / 22.2 / 28.6	57	3	9.5	52084131
Kwik Stepper™ step bit 22.2 - 34.9 mm	22.2 - 34.9	22.2 / 28.6 / 31.0 / 31.8 / 34.9	73	5	9.5	52084134
Kwik Stepper™ step bit 9.7 mm	9.7	Predrilling for Green- lee-Draw stud 9.7	40	1	6.4	50360183
Kwik Stepper™ step bit 12.7 mm	12.7	Predrilling for Green- lee-Draw stud 12.7	40	1	6.4	52084125
Kwik Stepper™ step bit Pg 7 - 21	Pg 7 - 21	Pg7 / Pg9 / Pg11 / Pg13 / Pg16 / Pg21	90	7	9.5	52084132
Kwik Stepper™ step bit ISO 16 - 32	ISO 16 - 32	ISO 16 / 20 / 25 / 32	80	4	9.5	52084133
Kwik Stepper™ step bit 19.1 mm	19.1	Predrilling for Green- lee-Draw stud	99	1	9.5	52084126
Kwik Stepper™ step bit 12 mm	12	Predrilling for Green- lee-Draw stud	99	1	4.4	52085453
Variants						Art.-Nr.
Kwik Stepper™ step bit set consisting of 52084123 + 52084129						52084141
Kwik Stepper™ step bit set consisting of 52084123 + 52084129 + 52084131						52085454

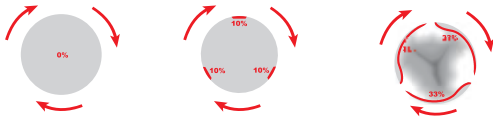
Kwik Stepper™ step bit with ROTASTOP® shaft



- ▶ ROTASTOP® guarantees best-possible torque transmission
- ▶ Minimal burr
- ▶ No slipping in the chuck with ROTASTOP®
- ▶ Long service life
- ▶ Requires minimum effort when drilling

Suitable for

- Reaming of steel sheets, pipes, non-ferrous metals and plastic



Item	Drilling range dia. mm	Step sizes dia. mm	Total length mm	Number of steps	Shank dia. mm	Part No.
Kwik Stepper™ step bit with ROTASTOP® shaft 4 - 12 mm	4 – 12	4.0 / 5.0 / 6.0 / 7.0 / 8.0 / 9.0 / 10.0 / 11.0 / 12.0	80	9	8.0	50069845
Kwik Stepper™ step bit with ROTASTOP® shaft 4 - 20 mm	4 – 20	4.0 / 6.0 / 8.0 / 10.0 / 12.0 / 14.0 / 16.0 / 18.0 / 20.0	67	9	8.0	50069853
Kwik Stepper™ step bit with ROTASTOP® shaft ISO 12 - 40 mm	6-21	6.0 / 8.0 / 10.0 / 11.5 / 12.5 / 14.5 / 17.0 / 21.0	67.5	8	8	52049371
Kwik Stepper™ step bit with ROTASTOP® shaft 6 - 30 mm	6 – 30	6.0 / 8.0 / 10.0 / 12.0 / 14.0 / 16.0 / 18.0 / 20.0 / 22.0 / 24.0 / 26.0 / 28.0 / 30.0	98	13	10.0	50069861
Kwik Stepper™ step bit with ROTASTOP® shaft 6 - 36 mm	6 – 36	6.0 / 9.0 / 12.0 / 15.0 / 18.0 / 21.0 / 24.0 / 27.0 / 30.0 / 33.0 / 36.0	85	11	12.0	50069870
Kwik Stepper™ step bit with ROTASTOP® shaft ISO 12 - 40 mm	ISO 12 - 40	For ISO 12 / 16 / 20 / 25 / 32 / 40	110	6	12.0	50069888



Kwik Stepper™ step bit set



- ▶ ROTASTOP® guarantees best-possible torque transmission
- ▶ Hardly any burr
- ▶ No slipping in the chuck with ROTASTOP®
- ▶ Long service life
- ▶ Requires minimal effort when drilling

Suitable for

- Reaming of steel sheets, pipes, non-ferrous metals and plastic

Item	Part No.
Kwik Stepper™ step bit set	50069900
Scope of supply	Part No.
Kwik Stepper™ step bit with ROTASTOP® shaft 4 - 12 mm	50069845
Kwik Stepper™ step bit with ROTASTOP® shaft 4 - 20 mm	50069853
Kwik Stepper™ step bit with ROTASTOP® shaft 6 - 30 mm	50069861

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.
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.
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

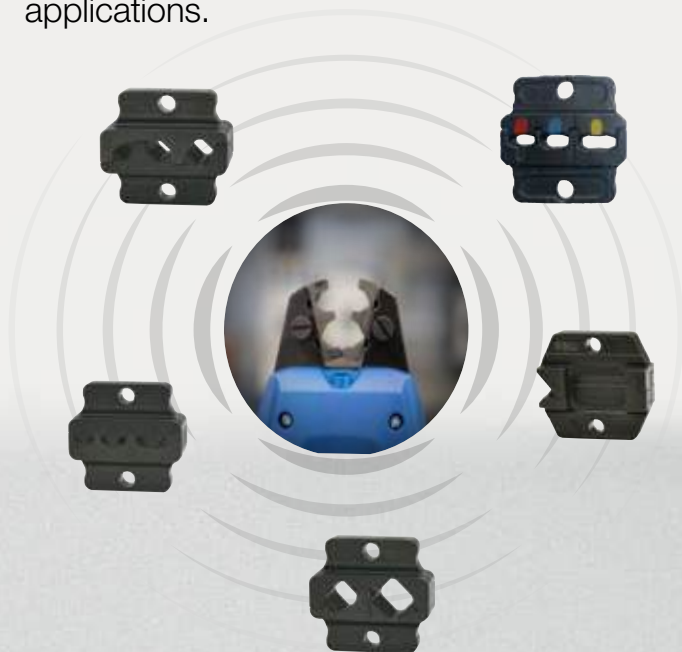
Electromechanical universal tool	6.4
Electromechanical crimping tool for cable end-sleeves and twin cable end-sleeves	6.5
Electro mechanical crimping tool	6.6
Electromechanical cutting tool	6.8
Hand-operated hydraulic universal tool, hydraulic universal head	6.10
Battery powered universal tools	6.11
Bus bar tool centre	6.15



SO FAST IN SERIES PRODUCTION - THE KLAUKE MICRO

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 and that for a large number of applications.



► Manual pre-clamping - motorized working

- Flexible to use with interchangeable crimping and cutting dies
- Broad application range of crimping dies up to 50 mm², cutting dies up to 13 mm dis.
- With LED illumination of 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:

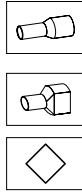
www.klauke.com/en/werkzeugregistrierung/login-tool-registration/



EK WF 50 ML Electro mechanical crimping tool 0,5 - 50 mm² for cable end-sleeves and twin cable end-sleeves



K50
SERIE



- ▶ The Klauke micro with intuitive PowerSense function combines the benefits of manual crimping tool K 507WF with the convenience of battery powered hydraulic crimping tools
- ▶ One crimping profile for all common types
- ▶ Quick and easy changing of the crimping dies
- ▶ Fewer pressures due to optimal crimping die width
- ▶ Excellent crimps with minimum effort

Characteristics

- Simple and safe: One-button operating concept for controlling all tool functions
- PowerSense function: Manual pre-clamping, motorized crimping
- Electronic control with locking function monitors full closing of the dies
- 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

Suitable for

- Cable end-sleeves and twin cable end-sleeves



Technical data	
Crimping range	0.5 - 50 mm ²
Number of crimps	approx. 400 at 10 mm ²
Battery voltage	10.8 V
Battery capacity	2.5 Ah, Li-Ion
Charging time	approx. 45 min.
Weight incl. battery	0.96 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No.
Electro mechanical crimping tool 0.5 - 50 mm ² for cable end-sleeves	EKWF50ML
Scope of supply	
	Part No.
Crimping dies AE 507 for cable end-sleeves, 0,5 - 6 mm ²	AE5071
Crimping dies AE 507 for cable end-sleeves, 10 - 25 mm ²	AE5072
Crimping dies AE 507 for cable end-sleeves, 35 - 50 mm ²	AE5073
Crimping dies AE 507 for twin cable end-sleeves 2 x 6 - 2 x 16 mm ²	ZAE5072
Battery 10.8 V / 2.5 Ah, Li-Ion (27 Wh)	RAML1225
Charger for 10.8 V Li-Ion batteries, 230V	LGML1
Plastic case 450 x 370 x 105 mm	KKEK50ML



EK 50 ML Electromechanical crimping tool 0.1 - 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
- PowerSense function: Manual pre-clamping, motorized crimping
- Electronic control with locking function monitors full closing of the dies
- 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

Suitable for

- 50-series interchangeable dies

Technical data	
Crimping range	0.1 - 50 mm ²
Number of crimps	approx. 400 at 10 mm ²
Battery voltage	10.8 V
Battery capacity	2.5 Ah, Li-Ion
Charging time	approx. 45 min.
Weight incl. battery	0.96 kg
Ambient temperature	-10 °C up to +40 °C
Item	Part No.
Electromechanical crimping tool 0.1 - 50 mm ²	EK50ML
Scope of supply	Part No.
Battery 10.8 V / 2.5 Ah, Li-Ion (27 Wh)	RAML1225
Charger for 10.8 V Li-Ion batteries, 230V	LGML1
Crimping dies IS 50, double crimping, 0.5 - 6 mm ²	IS501
Plastic case 450 x 370 x 105 mm	KKEK50ML
Variants	Part No.
Electromechanical crimping tool 0.1 - 50 mm ² with RAML1225 battery, no crimping die, case, charge	EK50ML-L
L-BOXX with electro-mechanical crimping tool EK 50 ML 0.1 to 50 mm ² and extensive additional equipment	LBOXXEK50ML



Available dies of series 50 for EK 50 ML

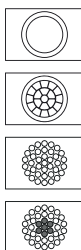
Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs, Cu, standard type		0,75 - 10		2.82
Tubular cable lugs and connectors, Cu, standard type		6 - 25		2.82
Tubular cable lugs and connectors for solid conductors, Cu		1,5 - 10		2.82
Compression cable lugs and connectors acc. to DIN - Cu				
Copper compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1)		6 - 25		2.82
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		2.82
Insulated solderless terminals and connectors		10 - 16		2.83
Cable end-sleeves				
Cable end-sleeves		0,5 - 50		2.83
Twin cable end-sleeves		2 x 6 - 2 x 16		2.83
Cable connections, insulated and non-insulated				
Insulated cable connections, single crimping		0,5 - 16		2.83
Insulated cable connections, double crimping		0,1 - 6		2.83
Non insulated receptacles		0,25 - 6		2.83
for pin and shielded receptacles, BNC connectors for coax cables RG 58, 59, 60 and 71				2.83
Turned pin connectors, pin receptacles		0,1 - 4		2.83
Cutting die				
for cutting knotted chains, cable class 2 to 25 mm ² , copper rails and steel cable		25 mm ²		3.50



EC 50 ML Electro mechanical cutting tool



K50
SERIE



- ▶ The Klauke micro with intuitive PowerSense function combines the benefits of manual cutting tools with the convenience of battery powered hydraulic cutting tools
- ▶ Excellent cuts with minimum effort

Characteristics

- Simple and safe: One-button operating concept for controlling all tool functions
- PowerSense function: Manual pre-clamping, motorized crimping
- Electronic control with locking function monitors full closing of the dies
- 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

Suitable for

- knotted chains
- For stranded conductors e.g. EN 60228 Class 2
- Copper bars up to 3 mm x 10 mm
- Steel cables and similar materials up to 3 mm

Technical data

Cutting range	up to 13 mm Ø
Cutting time	< 2 s
Battery voltage	10,8 V
Battery capacity	2,5 Ah, Li-Ion
Charging time	ca. 45 min.
Weight incl. battery	0,96 kg
Ambient temperature	-10 °C bis +40 °C

Item	Part No.
Electro mechanical cutting tool	EC50ML
Scope of supply	Part No.
Cutting die	S502
Battery 10.8 V / 2.5 Ah, Li-Ion (27 Wh)	RAML1225
Charger for 10.8 V Li-Ion batteries, 230V	LGML1
Plastic case 450 x 370 x 105 mm	KKEK50ML



THINK OF YOUR HEALTH!

Frequent manual working eventually leads to over-strain in the wrist and lower arm. To work with the Klauke Micro, **you only need around 10% of the manual force required** by a mechanical hand tool. Motorised working with the Klauke micro is an investment that pays off!



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 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 22 (6 t)
- Wide crimping with dies series 13 (12 t) possible
- Cross sections up to 400 mm²
- Simple adapter replacement

► The plus one: Hole punching

Retooling of hole punches is really simple with the Klauke multi. In conjunction with hole punch adapters from Greenlee, you can punch holes up to 64 mm round and max. 92 mm x 92 mm square.

► All-around cutting

Stay prepared for various materials. Cables from copper and aluminium are not a problem with appropriate cutting head, likewise for DIN-profile rails, threaded bars or railway catenary wires. Klauke universal tool cuts everything up to 40 mm diameter.

- Differing materials can be cut: Aluminium and copper cables, threaded rods, profile rails, railway catenary wires and open wire
- The right cutting dies for every application
- Cutting range up to 40 mm

► Solid in use

The Klauke universal tool can also be used for machining operations on solid bus bars and laminated bus bars up to 120 mm x 12 mm. Bending, punching, cutting and offsetting with one device that can be operated with the AHP700L and the electric pumps from Klauke.



Universal tools

Hand-operated hydraulic universal tool, Hydraulic universal head

PK 60 UNV Hydraulic universal head



- ▶ One head for crimping, cutting and punching - one tool for all
- ▶ Ideal in the assembly field where all common jobs can be carried out using one tool
- ▶ For connecting to hydraulic pumps with 700 bar operating pressure for best possible crimping, cutting and punching results

Characteristics

- Universal head with quick coupling, 360° rotation when not pressurised, flip top style
- Various cutting dies for aluminium and copper conductors with and without armouring as well as Al/St-Cables (ACSR)
- Dies to punch DIN rails
- Adapter for crimping dies of the Klauke Series 22

Technical instructions

- Interchangeable adapters and dies for crimping, cutting and punching you will find on page 6.14

Technical data	
Crimping force	60 kN
Stroke	42 mm
Crimping cycle	3 s to 5 s (depending on crimping cross-section)
Number of crimps	approx. 300 at 150 mm ² Cu DIN
Cutting range	max. 40 mm dia.
Number of cuts	approx. 110 at 4 x 70 mm ² NYY
Punching capacity	up to 64 mm dia. round, up to 92 x 92 mm square
Operating pressure	max. 700 bar
Length	350 mm
Weight	2.4 kg
Item	Part No.
Hydraulic universal head	PK60UNV
Scope of supply	Part No.
Carrying bag	TT2

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 6.14

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		
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	
Adapter for crimping dies of Series 22	UA22	UA22
Plastic case 450 x 370 x 105 mm	KKMUNVNG	KKMUNVNG
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 3.0 Ah, Li-Ion (54 Wh)	RAL2	
Variants		
L-BOXX with battery powered universal tool EKM60UNVCFB	LBOXXEKM60UNVCFB	



Universal tools

Battery powered universal tools

EK 60 UNV Battery-powered hydraulic universal tool 6 - 300 mm²

**NEXT
GENERATION**



- ▶ One head for crimping, cutting and punching - one tool for all
- ▶ Ideal in the assembly field where all common jobs can be carried out using one tool
- ▶ Fast working due to 2-stage hydraulics
- ▶ All tool data on view thanks to display and i-press app

Characteristics

- Choose your battery system: Bosch or Makita
- All data can be easily read via Bluetooth
- Universal head flip top style, rotatable
- Simple and safe: One-button operating concept for controlling all tool functions
- Effortless working due to balanced centre of gravity
- LED for work area illumination
- 2-stage hydraulic system with fast feed and power stroke
- Simple and safe: Automatic retraction when operation is complete (crimping or cutting)
- Always ready-to-use thanks to battery charge and service display

Technical instructions

- Interchangeable adapters and dies for crimping, cutting and punching you will find on page 6.14



**K22
SERIE**

Technical data

Crimping force	60 kN
Stroke	42 mm
Crimping range	6 - 300 mm ²
Crimping cycle	3 s to 5 s (depending on cross-section)
Cutting range	max. 40 mm dia.
Punching capacity	up to 64 mm dia. round
Charging time	45 min.
Weight	4.8 kg
Ambient temperature	-10 °C up to +40 °C

Item	Part No. Bosch	Part No. Makita
Battery-powered hydraulic universal tool 6 - 300 mm ²	EK60UNVCFB	EK60UNVCFM
Scope of supply		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Makita quick-charger for 18 V Li-Ion battery		LGL1
Plastic case 450 x 370 x 105 mm	UA22	UA22
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 6.14



**K13
SERIE**

Technical data		
Crimping force	108 kN	
Stroke	42 mm	
Crimping range	10 - 400 mm ²	
Crimping cycle	Depending on cable type	
Cutting range	max. 40 mm dia.	
Punching capacity	up to 144 mm dia. round, up to 138 x 138 mm square	
Charging time	45 min.	
Weight	6.5 kg	
Ambient temperature	-10 °C up to +40 °C	
Item	Part No. Bosch	Part No. Makita
Battery-powered hydraulic universal tool 10 - 400 mm ²	EK120UNVCFB	EK120UNVCFM
Scope of supply		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Bosch quick-charger for 18 V Li-Ion battery	LGLB1EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40
Makita quick-charger for 18 V Li-Ion battery		LGL1
Adapter for crimping dies of the Klauke 13-series	UA12TKL	UA12TKL
Plastic case	KK120NG	KK120NG
Accessories		
Bosch battery 18 V / 5.0 Ah, Li-Ion	RALB2EU	
Makita battery 18 V / 4.0 Ah, Li-Ion		RAL40

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 13	UA12TKL		●
	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 Sb4 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

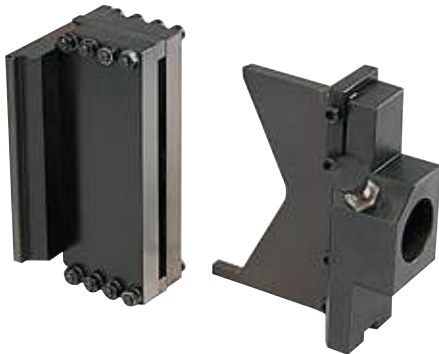


Characteristics

- 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

Hydraulic pumps

Accessories for hydraulic tools

7.4

7.5

7.11





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.
Hydraulic hose, 2 m	HS22
Accessories	Part No.
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

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.
Hydraulic hose, 2 m	HS22
Accessories	Part No.
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

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.
Hydraulic hose, 2 m	HS22
Foot switch for electro-hydraulic pumps EHP 4 and HK 12/2 EL	FTA1
Accessories	Part No.
Transport trolley for electro-hydraulic pump EHP 2	TW50
Two-hand safety controller for pumps EHP 2 to EHP 4	ZST3
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
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.
Hydraulic hose, 2m	HS22
Foot switch for electro-hydraulic pumps EHP 4 and HK 12/2 EL	FTA1
Accessories	Part No.
Two-hand safety controller for pumps EHP 2 to EHP 4	ZST3
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
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.
Hydraulic hose, 3 m	HS23
Foot switch for electro-hydraulic pumps EHP 4 and HK 12/2 EL	FTA1
Accessories	Part No.
Two-hand safety controller for pumps EHP 2 to EHP 4	ZST3
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
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
Makita battery 18 V / 4.0 Ah, Li-Ion	RAL40	2
Makita quick-charger for 18 V Li-Ion battery	LGL1	1
Hydraulic hose, 2 m, oil filled	HSOEL2	1
Carrying strap with shoulder padding	TG3	1
Carrying bag	TT2	1
Remote control with 1.5 m cable	HTA4	1
Accessories	Part No.	
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	
18 V mains adapter for 230 V Voltage	NG2230	
Two-hand safety control for battery powered hydraulic pump AHP 700-L	ZST4	
Foot switch for battery powered hydraulic pump	FTA4	
Transport rucksack	TRAHP700L	
Variants	Part No.	
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.
Hydraulic hose 6.4 mm dia. x 0.9 m	50383167

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.
Hydraulic hose 6.4 mm dia. x 3 m	50377299

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 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

RAML1225 battery 10.8 V / 2.5 Ah, Li-Ion (27 Wh)



Technical data	
Battery voltage	10.8 V
Battery capacity	2.5 Ah
Cell technology	Li-Ion
Weight	0.3 kg
Item	Part No.
Battery 10.8 V / 2.5 Ah, Li-Ion (27 Wh)	RAML1225

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 K18 EU Klauke charger for 18 V Li-Ion batteries



Suitable for

- Klauke Li-Ion battery 18 V

Technical data	
Mains supply	220 - 240 V
Voltage range	18 V
Weight	0.982 kg
Item	Part No.
Klauke charger for 18 V Li-Ion batteries	LGLK18EU

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

TG 3 Carrying strap with shoulder padding



Suitable for

- Battery powered hydraulic pump AHP 700-L

Item	Part No.
Carrying strap with shoulder padding	TG3



Pumps

Accessories for hydraulic tools

ZST 3 / ZST 4 Two-hand safety controls for pumps



Suitable for

- Pumps: EHP 4 and AHP 700-L

Item	Part No.
Two-hand safety controller for pumps EHP 2 to EHP 4	ZST3
Two-hand safety control for battery powered hydraulic pump AHP 700-L	ZST4

FTA 1 / FTA 4 Foot switches for pumps



Suitable for

- Pumps: EHP 4, HK 12/2 EL, AHP 700-L

Item	Part No.
Foot switch for electro-hydraulic pumps EHP 4 and HK 12/2 EL	FTA1
Foot switch for battery powered hydraulic pump AHP 700-L	FTA4

T 15 Special hydraulic oil



Characteristics

- Environmentally-friendly hydraulic oil, quickly biodegradable
- 5 l canister

Suitable for

- Hydraulic pumps

Item	Part No.
Special hydraulic oil	T15

Hydraulic oil



Characteristics

- Specially-developed for GREENLEE hydraulic tools

Item	Part No.
Hydraulic oil 3.8 l	90510593
Hydraulic oil 0.95 l	90508068

HS 2 Hydraulic hoses



Suitable for

- Hydraulic crimping and cutting systems and pumps
- For connecting to hydraulic pumps FHP 2, PHD 2, EHP 2, EHP 3, EHP 4, HK12/2 EL, HK 25/2 EL, AS 65 FHP, AS 105 FHP, HK 25/2, HK 45

Item	Part No.
Hydraulic hose, 2 m	HS22
Hydraulic hose, 3 m	HS23
Hydraulic hose, 4 m	HS24
Hydraulic hose, 5 m	HS25
Hydraulic hose, 6 m	HS26
Hydraulic hose, 8 m	HS28
Hydraulic hose, 10 m	HS210

HS OEL hydraulic hose, oil filled



Characteristics

- For connecting to battery-powered hydraulic pump AHP 700-L

Additional information

- Also available in country-specific variants, Part Number appendix „C“

Item	Part No.
Hydraulic hose, 2 m, oil filled	HSOEL2
Hydraulic hose, 3 m, oil filled	HSOEL3
Hydraulic hose, 4 m, oil filled	HSOEL4
Hydraulic hose, 5 m, oil filled	HSOEL5
Hydraulic hose, 6 m, oil filled	HSOEL6
Hydraulic hose, 10 m, oil filled	HSOEL10



Pumps

Accessories for hydraulic tools

Hydraulic hose 6.4 mm dia. x 3 m



Characteristics

- Filled with hydraulic oil

Suitable for

- Hydraulic foot pump 1725

Item	Part No.
Hydraulic hose 6.4 mm dia. x 3 m	50377299
Scope of supply	Part No.
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.
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 22, PK 120/42, PK 120 U, PK 25/2, PK 60 VP, PK 60 VP/FT, PK 60 UNV, 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	8.4
Pliers	8.6
Screwdrivers	8.10
Assortments and sets	8.13

Standard tools and accessory	8.17
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Wire stripping tools	8.34
Wire stripping tools	8.35
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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 1500V 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



Characteristics

- Adjustable joint
- Cuts fine and superfine stranded copper and aluminium cable

Part No.	KL010160IS	KL010210IS
Item	VDE Cable cutter 160 mm	VDE Cable cutter 210 mm
Dimension mm	160	210
Weight g	225	340
Cutting power up to dia.	16	25

VDE Power combination pliers



Characteristics

- With combination spanner from 11 - 17 mm (M8 - M10)
- Holds flat and round material
- Cuts soft wires, e.g. copper, aluminium, medium-hard wires e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire

Part No.	KL020165IS	KL020180IS	KL020205IS
Item	VDE Power combination pliers, 165 mm	VDE Power combination pliers, 180 mm	VDE Power combination pliers, 205 mm
Dimension mm	165	180	205
Weight g	200	255	280
Cutting power soft wire dia. mm	4.0	5.2	5.9
Cutting power medium wire dia. mm	3.1	3.4	3.8
Cutting power hard wire dia. mm	2.0	2.2	2.5

VDE Power combination pliers, angled



Characteristics

- Comfortable working due to ergonomically optimised, 45° angled head
- With combination spanner from 11 - 17 mm (M8 - M10)
- Holds flat and round material
- Cuts soft wires, e.g. copper, aluminium, medium-hard wires e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire

Part No.	KL026205IS
Item	VDE Power combination pliers, offset, 205 mm
Dimension mm	205
Weight g	285
Cutting power soft wire dia. mm	5.9
Cutting power medium wire dia. mm	3.8
Cutting power hard wire dia. mm	2.5

VDE Side cutter



Characteristics

- Improved cutting of insulated cables from slip-reducing wave profiled blades
- Cuts soft wires, e.g. copper, aluminium, medium-hard wires e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire

Part No.	KL040145IS	KL040160IS	KL040180IS
Item	VDE Side cutter 145 mm	VDE Side cutter 160 mm	VDE Side cutter 180 mm
Dimension mm	145	160	180
Weight g	180	210	265
Cutting power soft wire dia. mm	5.0	6.0	7.0
Cutting power medium wire dia. mm	2.5	3.5	4.0
Cutting power hard wire dia. mm	1.7	2.0	2.5
Cutting power up to dia.	8.0	11.0	13.0

VDE Electricians side cutter



Characteristics

- High cutting performance for superfine wires due to hardened precision cutters
- Cuts soft wires, e.g. copper, aluminium, medium-hard wires e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire

Part No.	KL042190IS
Item	VDE Electricians side cutter, 190 mm
Dimension mm	190
Weight g	285
Cutting power soft wire dia. mm	2.0
Cutting power medium wire dia. mm	1.0
Cutting power up to dia.	4.0

VDE Power side cutter



Characteristics

- Improved cutting of insulated cables from slip-reducing wave profiled blades
- Optimum handling due to ergonomically-shaped handle
- High cutting performance on hard wires and piano wires

Part No.	KL045180IS	KL044200IS	KL045240IS
Item	VDE Power side cutter, 180 mm	VDE Electric power side cutter, 200 mm	VDE Power side cutter, 240 mm
Dimension mm	180	200	240
Weight g	285	280	420
Cutting power soft wire dia. mm	3.7	4.0	4.5
Cutting power medium wire dia. mm	2.6	2.8	3.5
Cutting power hard wire dia. mm	2.2		3.0
Cutting power piano wire dia. mm		2.5	

VDE Lever power side cutter



Characteristics

- 40% force saving
- High cutting performance for superfine wires due to hardened precision cutters
- Special tool steel drop-forged, oil-hardened
- Cuts medium-hard wires, e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire as well as piano wire

Part No.	KL046200IS
Item	VDE Lever power side cutter, 200 mm
Dimension mm	200
Cutting power medium wire dia. mm	4.5
Cutting power hard wire dia. mm	3.5
Cutting power piano wire dia. mm	3.0

VDE Telephone pliers, straight



Characteristics

- Long, flat/round jaws
- Optimum hold due to toothed grip area
- Cutting edge inductive hardened
- With combination spanner from 11 - 17 mm (M8 - M10)
- With wire cutter for soft wires, e.g. copper, aluminium, medium-hard wires e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire

Part No.	KL050205IS
Item	VDE long-nose pliers, straight, 205 mm
Dimension mm	205
Weight g	215
Cutting power soft wire dia. mm	3.9
Cutting power medium wire dia. mm	3.2
Cutting power hard wire dia. mm	2.2

VDE Telephone pliers, curved

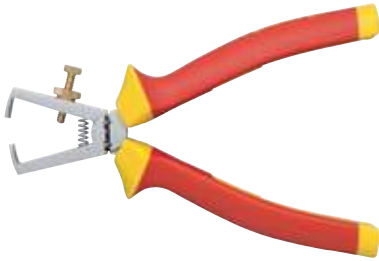


Characteristics

- Long, 45° offset, flat/round jaws
- Optimum hold due to toothed grip area
- Cutting edge inductive hardened
- With combination spanner from 11 - 17 mm (M8 - M10)
- Cuts soft wires, e.g. copper, aluminium, medium-hard wires e.g. nails, wire nails and hard wires, e.g. wire cable, steel wire

Part No.	KL055205IS
Item	VDE long-nose pliers, bent, 205 mm
Dimension mm	205
Weight g	215
Cutting power soft wire dia. mm	3.9
Cutting power medium wire dia. mm	3.2
Cutting power hard wire dia. mm	2.2

VDE Wire stripper



Characteristics

- With opening spring and V-shaped cutting edges
- With setting screw for setting the cable diameter

Part No.	KL060160IS
Item	VDE Wire stripper, 160 mm
Dimension mm	160
Weight g	185

VDE Water pump pliers, jaw width 50 mm



Characteristics

- Jaw width 50 mm
- Safe working due to clamp protection and safety joint
- Ratchet adjustment
- Optimum hold due to toothed grip area

Part No.	KL070250IS
Item	VDE Water pump pliers, jaw width 50 mm
Dimension mm	250
Weight g	410

Automatic VDE wire stripper 0.2 - 6 mm²



Characteristics

- For safe working on live conductors up to 1000 V
- Adjustable length stop from 5 - 12 mm
- Locking function to protect the blades

Suitable for

- Flexible and solid conductors from 0.2 - 6 mm²

Part No.	KL760180IS
Item	Automatic VDE wire stripper 0.2 - 6 mm²
Dimension mm	215
Weight g	130

VDE Slotted screwdriver



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL1007525IS	75	67	18	22	1
KL10010030IS	100	67	18	28	1
KL10010035IS	100	67	18	30	1
KL10010040IS	100	79	23	44	1
KL10012555IS	125	89	27	70	1
KL10015065IS	150	89	27	86	1
KL10017580IS	175	98	32	135	1

VDE Slotted screwdriver, Slim Line



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces
- Reduced space requirement for use in confined spaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL10010035ISLIM	100	67	18	35,9	1
KL10010040ISLIM	100	79	23	44	1
KL10012555ISLIM	125	89	27	70	1
KL10012565ISLIM	125	89	27	86	1

VDE Phillips screwdriver



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL110PH1IS	80	89	27	52	1
KL110PH2IS	100	98	32	80	1
KL110PH3IS	150	98	32	145	1

VDE Phillips screwdriver, Slim Line



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces
- Reduced space requirement for use in confined spaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL110PH1ISLIM	80	89	27	52	1
KL110PH2ISLIM	100	98	32	80	1

VDE Pozidriv screwdriver



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL120PZ1IS	80	89	27	49	1
KL120PZ2IS	100	98	32	76	1
KL120PZ3IS	150	98	32	140	1

VDE Pozidriv screwdriver, Slim Line



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces
- Reduced space requirement for use in confined spaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL120PZ1ISLIM	80	89	27	49	1
KL120PZ2ISLIM	100	98	32	76	1

VDE Plus/Minus-Pozidriv screwdriver



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL130PM1IS	80	89	27	52	1
KL130PM2IS	100	98	32	80	1

VDE Plus/Minus-Pozidriv screwdriver, Slim Line



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces
- Reduced space requirement for use in confined spaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL130PM1ISLIM	80	89	27	52	1
KL130PM2ISLIM	100	98	32	80	1

VDE TORX® screwdriver



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL150TX10IS	100	79	23	45	1
KL150TX15IS	100	89	27	45	1
KL150TX20IS	125	98	32	69	1
KL150TX25IS	125	98	32	69	1
KL150TX30IS	150	98	32	96	1

VDE TORX® screwdriver, Slim Line



Characteristics

- Ergonomically-shaped handle with optimum force transmission
- A roll-off protection prevents rolling away on inclined surfaces
- Reduced space requirement for use in confined spaces

Part No.	Length of shaft mm	Handle length mm	Handle width mm	Weight g	Packing unit/pcs
KL150TX15ISLIM	100	89	27	45	1
KL150TX20ISLIM	125	98	32	69	1
KL150TX25ISLIM	125	98	32	69	1

VDE-M-TEC Screwdriver for hexagonal nuts



Characteristics

- With box spanner tube - immersion depth approx. 41 mm - optimal for deep-seated screws and nuts
- With spring-loaded magnetic body

Item	Dimension mm	For thread	Weight g	Part No.
VDE Screwdriver M-TEC size 5.5	110 x 5.5	M3	100	KL14555IS
VDE Screwdriver M-TEC size 6	110 x 6.0	M3.5	100	KL14560IS
VDE Screwdriver M-TEC size 7	110 x 7.0	M4	100	KL14570IS
VDE Screwdriver M-TEC size 8	110 x 8.0	M5	110	KL14580IS
VDE Screwdriver M-TEC size 10	125 x 10.0	M6	110	KL145100IS
VDE Screwdriver M-TEC size 13	110 x 13.0	M8	110	KL145130IS

Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V



Characteristics

- Single-pole
- With heavy duty handle

Item	Dimension mm	Weight g	Part No.
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V	73 x 3.0 x 0.8	30	KL19073IS

VDE Pliers set, 3-pce.



Item	Part No.
VDE Plier set, 3-pieces	KL303IS
Scope of supply	Part No.
VDE Power combination pliers, 180 mm	KL020180IS
VDE Side cutter 160 mm	KL040160IS
VDE long-nose pliers, straight, 205 mm	KL050205IS

VDE Pliers set, 4-pce.



Item	Part No.
VDE Plier set, 4-pieces	KL304IS
Scope of supply	Part No.
VDE Power combination pliers, 180 mm	KL020180IS
VDE Electric power side cutter, 200 mm	KL044200IS
VDE long-nose pliers, straight, 205 mm	KL050205IS
VDE Wire stripper, 160 mm	KL060160IS

VDE Pliers/screwdriver set, 6-pce.



Item	Part No.
Pliers/screwdriver set, 6-pce.	KL306IS
Scope of supply	Part No.
VDE long-nose pliers, straight, 205 mm	KL050205IS
VDE Side cutter 160 mm	KL040160IS
VDE Phillips screwdriver, PH1	KL110PH1IS
VDE Phillips screwdriver, PH2	KL110PH2IS
VDE Slotted screwdriver, 2.5 x 0.4 mm	KL1007525IS
VDE Slotted screwdriver, 4.0 x 0.8 mm	KL10010040IS

VDE Screwdriver set, 3-pce.



Item	Part No.
VDE Screwdriver set, 3-pieces	KL391IS
Scope of supply	Part No.
VDE Phillips screwdriver, PH1	KL110PH1IS
VDE Phillips screwdriver, PH2	KL110PH2IS
VDE Slotted screwdriver, 3.5 x 0.6 mm	KL10010035IS

VDE Screwdriver set, 3-pce.



Item	Part No.
VDE Screwdriver set, 3-pieces	KL392IS
Scope of supply	Part No.
VDE Pozidriv screwdriver, PZ1	KL120PZ1IS
VDE Pozidriv screwdriver, PZ2	KL120PZ2IS
VDE Slotted screwdriver, 4.0 x 0.8 mm	KL10010040IS

VDE Screwdriver set, 3-pce.



Item	Part No.
VDE Screwdriver set, 3-pieces	KL393IS
Scope of supply	Part No.
VDE Plus/Minus-Pozidriv screwdriver, Z1	KL130PM1IS
VDE Plus/Minus-Pozidriv screwdriver, Z2	KL130PM2IS
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V	KL19073IS

VDE Screwdriver set, 6-pce.



Item	Part No.
VDE Screwdriver set, 6-pce.	KL390IS
Scope of supply	Part No.
VDE Phillips screwdriver, PH1	KL110PH1IS
VDE Phillips screwdriver, PH2	KL110PH2IS
VDE Slotted screwdriver, 2.5 x 0.4 mm	KL1007525IS
VDE Slotted screwdriver, 4.0 x 0.8 mm	KL10010040IS
VDE Slotted screwdriver, 5.5 x 1.0 mm	KL10012555IS
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V	KL19073IS

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.
VDE Slotted screwdriver 3.5 x 0.6 x 100 Slim Line	KL10010035ISLIM
VDE Slotted screwdriver 5.5 x 1.0 x 125 Slim Line	KL10012555ISLIM
VDE Pozidriv screwdriver PZ1 Slim Line	KL120PZ1ISLIM
VDE Pozidriv screwdriver PZ2 Slim Line	KL120PZ2ISLIM
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V	KL19073IS

VDE Screwdriver set Slim Line, 6-pce., case



Characteristics

- Reduced blade for optimum fit
- Ergonomically-shaped handle with optimum force transmission
- Anti-roll-guard

Item	Part No.
VDE Screwdriver set Slim Line, 6-pce., case	KL391ISLIM
Scope of supply	Part No.
VDE Slotted screwdriver 3.5 x 0.6 x 100 Slim Line	KL10010035ISLIM
VDE Slotted screwdriver 4.0 x 0.8 x 100 Slim Line	KL10010040ISLIM
VDE Slotted screwdriver 5.5 x 1.0 x 125 Slim Line	KL10012555ISLIM
VDE Phillips screwdriver PH2 Slim Line	KL110PH2ISLIM
VDE Pozidriv screwdriver PZ1 Slim Line	KL120PZ1ISLIM
VDE Pozidriv screwdriver PZ2 Slim Line	KL120PZ2ISLIM

Tool bag, equipped with 9 VDE replaceable blades



Characteristics

- Blades from special chrome/molybdenum/vanadium alloy
- Standard 1/4" mounting for use with torque handles
- Blade length: 170 mm

Item	Part No.
Tool bag, equipped with 9 VDE replaceable blades	KL390TB9
Scope of supply	
VDE Slotted blade, 3.5 x 0.6 mm in blister pack	
VDE Slotted blade, 4.0 x 0.8 mm in blister pack	
VDE Slotted blade, 5.5 x 1.0 mm in blister pack	
VDE Philips blade, PH1 in blister pack	
VDE Philips blade, PH2 in blister pack	
VDE Pozidriv blade, PZ1 in blister pack	
VDE Pozidriv blade, PZ2 in blister pack	
VDE Plus/Minus Pozidriv blade, PM1 in blister pack	
VDE Plus/Minus Pozidriv blade, PM2 in blister pack	
Accessory	Part No.
Tool bag, empty	KL390TL





STANDARD – KLAUKE BASIC TOOLS, SETS AND ACCESSORIES

With Klauke sets, you always have your basic equipment to hand. Whether you are an electronics technician or precision engineer - the Klauke range includes all standard versions through to pliers for water pumps and fittings. Rely on Klauke quality from the outset - even just for quick, occasional use.



► Socket wrench set KL 361

We have compiled the standard set of socket wrenches for you and made everything shockproof by storing in a high-quality plastic case. In total, the set comprises 29 pieces in 1/4" sizes.

- 29 piece: 16-piece bit set, bit holder, adapter, 7-piece socket set, professional ratchet, various extensions, T-Smart grip

► The apprentice's case: KL 855 B22

The impact-resistant case made from ABS material contains everything an apprentice electrician needs, from standard tools such as cable knives and phase testers through to VDE safety tools.

Head into your apprenticeship well-prepared!

► The technician's basic equipment: KL 905 B15

The practical notebook bag holds everything you need on-site. The 15-piece set is securely stowed in the fold-out compartments.

- Technician's notebook bag made from highly durable nylon
- Tools are quickly located thanks to fold-out front pocket

- Reliably transported due to splash-proof base
- Twin fixed carrying handle
- Basic set of VDE screwdrivers
- Standard tools such as phase tester and cable knife



Water pump pliers, jaw width 50 mm



Characteristics

- Jaw width 50 mm
- Safe working due to clamp protection and safety joint
- Ratchet adjustment
- Optimum hold due to toothed grip area
- Plastic coated handles
- 2-component handle

Part No.	KL070250G
Item	Water pump pliers, jaw width 50 mm
Dimension mm	250
Weight g	355

Water pump pliers



Characteristics

- Jaw width up to 65 mm
- Safe working due to clamp protection and safety joint
- Push button adjustment for setting quickly and accurately
- Inverted box joint with wide guide surfaces
- Optimum hold due to toothed grip area
- High retaining force and load-bearing capacity due to inductively-hardened teeth
- Plastic coated handles
- 2-component handle

Part No.	KL072180G	KL072250G	KL072300G
Item	Water pump pliers, jaw width 35 mm	Water pump pliers, jaw width 50 mm	Water pump pliers, jaw width 65 mm
Dimension mm	180	250	300
Weight g	190	300	530

Screwdriver with interchangeable bits



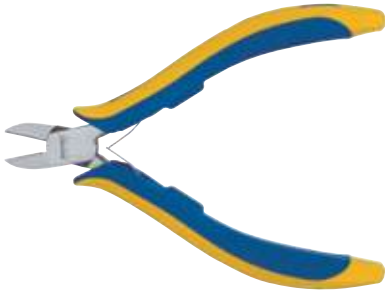
Characteristics

- 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

ESD Electronic side cutter



Characteristics

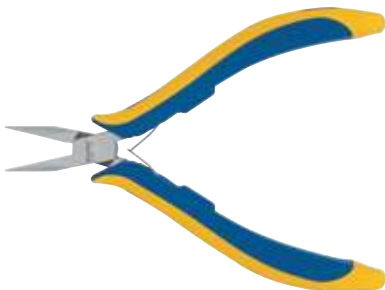
- Precision pliers for high precision work
- Double leaf spring with low friction
- High cutting force thanks to additional induction hardening
- Anti-static ergonomic non slip grips
- Surface resistance amounts to 1 to 100 MΩhm

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 MΩhm
- 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



Slotted screwdriver bit 1/4", 73 mm



Characteristics

- Shank 1/4" (6.3), DIN 3126

Item	Dimension mm	Weight g	Number parts	Part No.
Slotted screwdriver bit 1/4", 73 mm	73 x 0.6 x 3.5	16	2	KL2007335
Slotted screwdriver bit 1/4", 73 mm	73 x 0.8 x 4.0	18	2	KL2007340
Slotted screwdriver bit 1/4", 73 mm	73 x 1.0 x 5.5	26	2	KL2007355
Slotted screwdriver bit 1/4", 73 mm	73 x 1.2 x 6.5	34	2	KL2007365

Phillips screwdriver bit 1/4", 73 mm



Characteristics

- Shank 1/4" (6.3), DIN 3126

Item	Dimension mm	Weight g	Number parts	Part No.
Phillips screwdriver bit 1/4", 73 mm PH1	73 x PH 1	22	2	KL21073PH1
Phillips screwdriver bit 1/4", 73 mm PH2	73 x PH 2	30	2	KL21073PH2

Pozidriv screwdriver bit 1/4", 73 mm



Characteristics

- Shank 1/4" (6.3), DIN 3126

Item	Dimension mm	Weight g	Number parts	Part No.
Pozidriv screwdriver bit 1/4", 73 mm PZ1	73 x PZ 1	22	2	KL22073PZ1
Pozidriv screwdriver bit 1/4", 73 mm PZ2	73 x PZ 2	30	2	KL22073PZ2

Plus/Minus-Pozidriv screwdriver bit, 1/4", 73 mm

Characteristics

- Shank 1/4" (6.3), DIN 3126



Item	Dimension mm	Weight g	Number parts	Part No.
Plus/Minus-Pozidriv screwdriver bit, 1/4", 73 mm	73 x Z 1	20	2	KL23073PM1
Plus/Minus-Pozidriv screwdriver bit, 1/4", 73 mm	73 x Z 2	30	2	KL23073PM2

TORX® screwdriver bit, 1/4", 73 mm

Characteristics

- Shank 1/4" (6.3), DIN 3126



Item	Dimension mm	Weight g	Number parts	Part No.
TORX® screwdriver bit, 1/4", 73 mm TX10	73 x TX 10	22	2	KL25073TX10
TORX® screwdriver bit, 1/4", 73 mm TX15	73 x TX 15	22	2	KL25073TX15
TORX® screwdriver bit, 1/4", 73 mm TX20	73 x TX 20	25	2	KL25073TX20
TORX® screwdriver bit, 1/4", 73 mm TX25	73 x TX 25	25	2	KL25073TX25
TORX® screwdriver bit, 1/4", 73 mm TX27	73 x TX 27	25	2	KL25073TX27
TORX® Screwdriver bit, 1/4", 73 mm TX30	73 x TX 30	30	2	KL25073TX30
TORX® Screwdriver bit, 1/4", 73 mm TX40	73 x TX 40	40	2	KL25073TX40

Magnetic holder for screwdriver bits, 1/4", 58 mm

Characteristics

- Shank 1/4" (6.3), DIN 3126
- Strong magnet



Item	Dimension mm	Weight g	Part No.
Magnetic holder for screwdriver bits, 1/4", 58 mm	58	32	KL290

Bit holder with quick-change chuck E6.3 1/4"

Characteristics

- Shank 1/4" (6.3), DIN 3126
- With quick-change chuck



Item	Dimension mm	Weight g	Part No.
Bit holder with quick-change chuck E6.3 1/4"	52	30	KL291

Adapter, 1/4", 50 mm



► Shank E 6.3 and 1/4" socket wrench

Characteristics

- Shank 1/4" (6.3)

Suitable for

- Drive for 1/4" socket wrenches

Item	Dimension mm	Weight g	Part No.
Adapter, 1/4", 50 mm	50	15	KL295

Adapter, 3/8", 50 mm



Characteristics

- Shank 3/8" (10), DIN 3126

Item	Dimension mm	Weight g	Part No.
Adapter, 3/8", 50 mm	50	22	KL296

Socket head bit set 1/4", 29-pce.



Item	Weight g	Number parts	Part No.
Socket head bit set 1/4", 29-pce.	1130	29	KL361
Scope of supply			
16-pce. Bit set C6.3 1/4"			
Bit holder with quick-change chuck E6.3 1/4"			
7-pce. Socket set AF5 - AF13 1/4"			
Adapter C6.3 (25 mm) 1/4"			
Extension E6.3 (150 mm) 1/4"			
Extension (75 mm) 1/4"			
Professional ratchet 1/4"			
T-Smart handle 105 x 39 mm 1/4"			

Allen key set, 7-pce.



Characteristics

- In practical holder

Item	Dimension mm	Weight g	Number parts	Part No.
Allen key set, 7-pce.	SW 2 - 8	171	7	KL370

Ball-point allen key set, 9-pce.



Characteristics

- In practical plastic holder

Item	Dimension mm	Weight g	Number parts	Part No.
Ball-point allen key set, 9-pce.	SW 1.5 - 10	273	9	KL375

Torque-wrench set, 0.6 - 1.5 Nm



Characteristics

- Easy torque adjustment using an Allen key
- Precise release when reaching the set torque

Item	Weight g	Number parts	Part No.
Torque-wrench set, 0.6 - 1.5 Nm	1048	14	KL38715
Scope of supply			
Nm-slotted blade 3.0 x 0.5 x 170 mm			
Nm-slotted blade 3.5 x 0.6 x 170 mm			
Nm-Phillips blade PH 0 x 170 mm			
Nm blade PZ 0 x 170 mm			
Nm-TORX® blade TX 6 x 170 mm			
Nm-TORX® blade TX 7 x 170 mm			
Nm-TORX® blade TX 8 x 170 mm			
Nm-TORX® blade TX IP 7 x 170 mm			
Nm-TORX® blade TX IP 8 x 170 mm			
Nm-TORX® blade TX IP 9 x 170 mm			
Nm blade Z1 x 170 mm			
Nm blade magnetic 170 mm			
Nm handle 0.6 - 1.5 Nm			
Adjusting spanner			



Torque-wrench set, 1.5 - 3.0 Nm



Characteristics

- Easy torque adjustment using an Allen key
- Precise release when reaching the set torque

Item	Weight g	Number parts	Part No.
Torque-wrench set, 1.5 - 3.0 Nm, 14 pieces	1066	14	KL38830
Scope of supply			
Nm-slotted blade 4.0 x 0.8 x 170 mm			
Nm-Phillips blade PH 1 x 170 mm			
Nm-Phillips blade PH 2 x 170 mm			
Nm blade PZ 1 x 170 mm			
Nm blade PZ 2 x 170 mm			
Nm-TORX® blade TX 10 x 170 mm			
Nm-TORX® blade TX 15 x 170 mm			
Nm-TORX® blade TX IP 10 x 170 mm			
Nm-TORX® blade TX IP 15 x 170 mm			
Nm blade Z1 x 170 mm			
Nm blade Z2 x 170 mm			
Nm blade magnetic 170 mm			
Nm handle 1.5 - 3.0 Nm			
Adjusting spanner			

Torque-wrench set, 3.0 - 5.4 Nm



Characteristics

- Easy torque adjustment using an Allen key
- Precise release when reaching the set torque

Item	Weight g	Number parts	Part No.
Torque-wrench set, 3.0 - 5.4 Nm	1066	14	KL38954
Scope of supply			
Nm-slotted blade 4.0 x 0.8 x 170 mm			
Nm-Phillips blade PH 2 x 170 mm			
Nm-Phillips blade PH 1 x 170 mm			
Nm blade PZ 1 x 170 mm			
Nm blade PZ 2 x 170 mm			
Nm-TORX® blade TX 15 x 170 mm			
Nm-TORX® blade TX IP 10 x 170 mm			
Nm-TORX® blade TX IP 15 x 170 mm			
Nm blade Z2 x 170 mm			
Nm blade magnetic 170 mm			
Nm handle 3.0 - 5.4 Nm			
Adjusting spanner			

Bit set, 6-piece, 1/4", 73 mm



Characteristics

- Shank 1/4" (6.3), DIN 3126
- KL330: 3.0 x 0.5 mm / 3.5 x 0.6 mm / 4.0 x 0.8 mm / 5.5 x 1.0 mm / PH 1 / PH 2
- KL331: PH 1 / PH 2 / PH 3 / PZ1 / PZ2 / PZ3
- KL335: TX10 / TX15 / TX20 / TX25 / TX30 / TX40

Item	Blade length mm	Weight g	Number parts	Part No.
Bit assortment, 1/4", 73 mm	73	120	6	KL330
Bit assortment, 1/4", 73 mm	73	120	6	KL331
TORX® bit assortment, 1/4", 73 mm	73	120	6	KL335

Bit box Swift, 7-piece, 1/4", 25 mm



Characteristics

- Shank 1/4" (6.3), DIN 3126
- In practical holder
- Incl. magnetic holder
- KL340: 1.0 x 5.5 mm / 1.2 x 6.5 mm / PZ 1 / PZ 2 / PH 1 / PH 2

Item	Blade length mm	Weight g	Number parts	Part No.
Bit box Swift, 1/4", 25 mm	25	75	7	KL340

Combination spanner set, 12-pce.



Characteristics

- Material: Chrome vanadium
- Surface: chromed

Item	Dimension mm	Weight g	Part No.
Combination spanner set, 12-pce.	SW 8 - 22	1055	KL365

Control cabinet spirit level, 200 mm



Characteristics

- With horizontal, vertical and 45° spirit level

Item	Dimension mm	Weight g	Part No.
Control cabinet spirit level, 200 mm	200x42x17	65	KL420200

Alu spirit level



Characteristics

- With horizontal and vertical spirit level

Item	Dimension mm	Weight g	Part No.
Alu spirit level, 400 mm	400 x 40 x 15	210	KL425400
Alu spirit level, 600 mm	600 x 40 x 15	305	KL425600

Wooden folding rule, 2 m



Characteristics

- White/yellow
- No. of links 10

Item	Weight g	Part No.
Wooden folding rule, 2 m	126	KL402

Measuring tape, 3 m



Characteristics

- With 3 functions: Length, inside dimension and circles

Item	Weight g	Part No.
Measuring tape, 3 m	124	KL403

Carpenter's pencil



Characteristics

- Oval shape
- Pointed

Item	Weight g	Part No.
Carpenter's pencil	10	KL449

Marking pen



Characteristics

- Multimark permanent marker, black
- Fine tip 0.6 mm

Item	Weight g	Part No.
Marking pen	10	KL440F

Control cabinet key



Characteristics

- With chain, adapter and interchangeable bit 1/4"
- Inner square 5, 6 and 7-8 mm
- Triangular 9 mm
- Double pin keys 3 - 5 mm
- Bit PH2 and slot 1.2 x 0.7 mm
- Radiator valve key closing (5 mm square) in the centre slot

Item	Weight g	Part No.
Control cabinet key	75	KL500

Universal cabinet key, subkey Electro



Characteristics

- 30% lighter and simpler opening mechanism
- Inner square 5, 6 and 7-8 mm
- Triangular 9 mm
- Double pin keys 3 - 5 mm
- Including 1/4" bit mounting and 2 double bits
- Radiator valve key closing (5 mm square) on the pin head
- Bit slot 1.2 x 7 mm, PH2

Item	Dimension mm	Weight g	Part No.
Universal cabinet key, subkey Electro	145	120	KL510

Engineer's hammer



Characteristics

- Steel-forged head
- Ground finish
- With protective nylon shroud

Item	Dimension mm	Weight g	Part No.
Engineer's hammer, 300 g	370	300	KL580300
Engineer's hammer, 500 g	610	500	KL580500

Sledge hammer



Characteristics

- Steel-forged head
- Ground finish
- With protective nylon shroud

Item	Dimension mm	Weight g	Part No.
Club hammer, 1000 g	1150	1000	KL5821000
Club hammer, 1250 g	1400	1250	KL5821250

Jointing chisel



Characteristics

- Chrome vanadium steel
- Safety head, annealed

Item	Dimension mm	Weight g	Part No.
Jointing chisel	230 x 26 x 7	250	KL584230

Electricians chisel



Characteristics

- Chrome vanadium steel
- Safety head, annealed

Item	Dimension mm	Weight g	Part No.
Electrician's chisel, 200 mm	200	90	KL585200
Electrician's chisel, 250 mm	250	120	KL585250

Safety handle for jointing chisel



Suitable for

- Jointing chisel, part no. KL584230

Item	Weight g	Part No.
Safety handle for jointing chisel	110	KL586

Cable knife



Characteristics

- Hinged, with plastic handle

Item	Dimension mm	Weight g	Part No.
Cable knife	80	115	KL540

Mini saw



Characteristics

- With fixed wooden handle

Item	Dimension mm	Weight g	Part No.
Mini saw	290	95	KL559
Metal saw blades, 12-piece	150	2	KL550ES

Universal saw



Characteristics

- With fibreglass reinforced plastic handle

Item	Dimension mm	Weight g	Part No.
Universal saw	250	170	KL550
Metal saw blades, 12-piece	150	2	KL550ES

Combination scissors



Characteristics

- Serrated cutting edges
- With safety lock
- Cuts e.g. round and flat material from copper, aluminium, plastic, paper, cardboard, leather

Item	Dimension mm	Weight g	Part No.
Combination scissors	190	100	KL545

Universal knife



Characteristics

- With adjustable and replaceable blades

Item	Dimension mm	Weight g	Part No.
Universal knife		305	KL542
Replacement blade for universal knife	60 x 19 x 0.5	8	KL542ES

Cutter knife



Characteristics

- Knife with knock-off blades, all 9 mm

Item	Dimension mm	Weight g	Part No.
Cutter knife	9	45	KL544
Replacement blade for cutter knife	9	5	KL544ES



Apprentice case



► Tool case can be personalised with own brand logo - <http://www.klauke.com/personalization>

Characteristics

- Case shell from impact-resistant ABS
- Robust aluminium frame with abutting edges
- Two lockable clips

Item	Dimension mm	Weight kg	Part No.
Apprentice case	500 x 470 x 210	6.0	KL855B22
Scope of supply			Part No.
VDE Power combination pliers, 180 mm			KL020180IS
VDE Side cutter 160 mm			KL040160IS
VDE long-nose pliers, straight, 205 mm			KL050205IS
VDE Slotted screwdriver, 3.0 x 0.5 mm			KL10010030IS
VDE Slotted screwdriver, 4.0 x 0.8 mm			KL10010040IS
VDE Slotted screwdriver, 5.5 x 1.0 mm			KL10012555IS
VDE Pozidriv screwdriver, PZ1			KL120PZ1IS
VDE Pozidriv screwdriver, PZ2			KL120PZ2IS
VDE Plus/Minus-Pozidriv screwdriver, Z1			KL130PM1IS
VDE Plus/Minus-Pozidriv screwdriver, Z2			KL130PM2IS
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V			KL19073IS
Wooden folding rule, 2 m			KL402
Control cabinet spirit level, 200 mm			KL420200
Carpenter's pencil			KL449
Universal saw			KL550
Engineer's hammer, 300 g			KL580300
Cable knife with hooked blade			KL745HK
Automatic VDE wire stripper 0.2 - 6 mm²			KL760180IS
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.
Technicians professional case, empty	KL905L
VDE Phillips screwdriver, PH1	KL110PH1IS
VDE Phillips screwdriver, PH2	KL110PH2IS
VDE Slotted screwdriver, 2.5 x 0.4 mm	KL1007525IS
VDE Slotted screwdriver, 4.0 x 0.8 mm	KL10010040IS
VDE Slotted screwdriver, 5.5 x 1.0 mm	KL10012555IS
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V	KL19073IS
VDE Plus/Minus-Pozidriv screwdriver, Z1	KL130PM1IS
VDE Plus/Minus-Pozidriv screwdriver, Z2	KL130PM2IS
Cable knife with hooked blade	KL745HK
VDE long-nose pliers, straight, 205 mm	KL050205IS
VDE Electric power side cutter, 200 mm	KL044200IS
Round cable stripper 8 - 13mm ²	KL710
VDE Power combination pliers, 165 mm	KL020165IS
Measuring tape, 3 m	KL403



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.
VDE Power combination pliers, 180 mm			KL020180IS
VDE Side cutter 160 mm			KL040160IS
VDE long-nose pliers, straight, 205 mm			KL050205IS
VDE Slotted screwdriver, 3.0 x 0.5 mm			KL10010030IS
VDE Slotted screwdriver, 4.0 x 0.8 mm			KL10010040IS
VDE Slotted screwdriver, 5.5 x 1.0 mm			KL10012555IS
VDE Pozidriv screwdriver, PZ1			KL120PZ1IS
VDE Pozidriv screwdriver, PZ2			KL120PZ2IS
VDE-Plus/Minus-Pozidriv screwdriver Z1			KL130PM1IS
VDE Plus/Minus-Pozidriv screwdriver Z2			KL130PM2IS
Phase tester with heavy duty handle, one-pin, VDE 0680 150 V - 250 V			KL19073IS
Cable knife with hooked blade			KL745HK
Automatic VDE wire stripper 0.2 - 6 mm²			KL760180IS
Wooden folding rule, 2 m			KL402
Control cabinet spirit level, 200 mm			KL420200
Carpenter's pencil			KL449
Universal saw			KL550
Engineer's hammer, 300 g			KL580300
Electrician's chisel, 250 mm			KL585250

Professional installers case



Characteristics

- Robust version with plastic slide rails and upper metal rails with sponge rubber handle
- Adjustable carrying belt with quick-release fastener and shoulder pad
- Outdoors: 1 large lockable label pocket, 9 pockets, 2 Velcro® for fastening spirit level etc. Indoor connections: 3 compartments, 14 straps

Item	Dimension mm	Weight g	Part No.
Profi-installer's pocket	350 x 200 x 200	2600	KL920L

Technicians professional case, empty



Characteristics

- Material: highly durable nylon, splash-proof base
- 90° folding front pocket, each side pocket has a zipper
- Twin fixed carrying handle
- Adjustable carrying belt with quick-release fastener and shoulder pad
- Protected notebook compartment for laptops up to 17", dimensions 285 x 416 x 89 mm
- Insert for visitor cards
- High-quality zipper

Item	Dimension mm	Weight g	Part No.
Technicians professional case, empty	330 x 440 x 200	2600	KL905L

Tool case, empty



Characteristics

- Robust aluminium frame with abutting edges
- With lockable clips

Item	Dimension mm	Weight g	Part No.
Tool case Economy	490 x 365 x 188	4,5	KL855L
Tool case, empty	508 x 362 x 214	5,2	KL865L

Tool wallet from nylon, empty



Characteristics

- Material: Polytex
- Accepts up to 11 tools

Item	Dimension mm	Weight g	Part No.
Tool wallet from nylon, empty	200 x 200 x 50	100	KL910L

PREPARATION WITH PRECISION - STRIPPING TOOLS

In the world of professionals, every assignment counts.
Better if you can rely on your tool. Stripping tools from Klauke
remove insulation and cable sheathing quickly and precisely.
All strands remain intact.



► For very precise use

- Fast and precise removal of insulation and cable sheathing
- Automatic cross-section adjustment
- Reduced effort due to optimum power transmission
- Reduced wear
- Including replacement blade

Special sheath and insulation materials call for special stripping tools! Innovative blade geometries guarantee a clean cut edge - with hard insulation such as PTFE (Teflon) through to soft/tough materials such as silicon!

Automatic wire stripper, 0.02 - 10 mm²



Characteristics

- Self-setting cutting and stripping tool for commercially available flexible cables 0.02 - 10 mm² and solid conductors to 1.5 mm²
- Easily replaceable blade system
- Long service life of pliers due to precise adjustment for stripping thin insulation without damaging the conductor
- Integrated side cutter

Item	Stripping range mm ²	Weight g	Part No.
Wire-stripping tool K43/2	0.02 - 10	140	K432
Accessories			Part No.
Interchangeable cassette, black, for wire-stripping tool K432 0.02 - 10 mm ² flexible conductors and to 1.5 mm ² solid conductors			K432E
Interchangeable cassette, blue, for wire-stripping tool K432 for PTFE insulated conductors 0.1 - 4 mm ²			K432E2
Interchangeable cassette, red, for wire-stripping tool K432 / 4 - 16 mm ²			K432E3

Automatic wire stripper, 4 - 16 mm²



- Particularly suitable for application-specific cables in the plant and machinery construction, wind energy, robotics, eMobility, marine, shipbuilding, railway and rail transport sectors

Characteristics

- Self-adjusting cutting and stripping tool for application-specific solid and flexible cables
- Ideal, lightweight and ergonomic tool with a long service life
- Automatic opening of the clamping jaws after the stripping process for added safety
- No splicing of single conductors - conductor enters the cable end-sleeve with greater ease
- Integrated professional, readily accessible cable cutter - accelerates working processes
- Adjustable stop with metric and imperial display for precise stripping length

Item	Dimension mm	Stripping range mm ²	Weight g	Part No.
Automatic wire stripper, 4 - 16 mm ²	190	4 - 16	140	K432U
Accessories				Part No.
Wechselkassette rot für massive u. flexible Kabel 4 - 16 mm ²				K432E3



Hand tools

Wire stripping tools

Wire stripper with stepless stripping range 0.03 - 16 mm²



- ▶ First wire stripper with stepless stripping range 0.03 - 16 mm²
- ▶ Perfect for damage-free stripping of solid and flexible conductors with PVC

Characteristics

- Effortless working thanks to ergonomic styling
- Safe working thanks to integrated clamp protection
- Durable tool with easily replaceable blades
- Integrated side cutter up to max. 9 mm dia.
- High stability due to glass fiber reinforced polyamide
- Accurate and consistent stripping length thanks to adjustable stop

Item	Stripping range mm ²	Weight g	Part No.
Wire stripper with stepless stripping range 0.03 - 16 mm ²	0.03 - 16	140	K433
Accessories			Part No.
Detachable magazine			K433E

Wire stripper, 0.2 - 6 mm²



Characteristics

- Adjustable length stop from 5 - 12 mm
- Integrated easy to reach side cutter up to max. 2 mm dia.

Suitable for

- For all standard flexible and solid conductors from 0.2 - 6 mm²

Item	Dimension mm	Stripping range mm ²	Weight g	Part No.
Wire stripper for flexible and solid conductors	180	0.2 - 6	130	KL760180

Wire stripper for round and flat cables



Characteristics

- Fine adjustment (5-way) on various cable types and cable diameters
- Optical length dimension 8 - 24 mm (5/16 - 1 inch)
- Integrated side cutter up to max. 3 mm dia.

Suitable for

- Flat cable: Baring and stripping of 2-core PVC-insulated flat cables from 0.75 - 1.5 mm²
- Round cable: Baring and stripping flexible cables in the range 0.5 - 16 mm² (20-6 AWG), solid conductors 0.5 - 10 mm² (20-8 AWG)

Item	Dimension mm	Stripping range mm ²	Weight g	Part No.
Wire stripper for round and flat cables	180	0.5 - 16	205	KL765FR215

Automatic wire stripper for round cables in the solar technology sector



Characteristics

- Fine adjustment (5-way) on various cable types and cable diameters
- Integrated side cutter up to max. 3 mm dia.
- Optical length dimension 8 - 24 mm (5/16 - 1 inch)

Suitable for

- Baring and stripping of all standard, flexible cables from 1.5 - 10.0 mm² (15-9 AWG) in the solar technology sector.

Item	Dimension mm	Stripping range mm ²	Weight g	Part No.
Automatic wire-stripping tool for round cables in the solar technology sector	180	1.5 - 10	205	KL765PV

Cable knife without blade



Characteristics

- Precise, fast and safe stripping of all standard round cables
- No damage to inner conductor due to stepless adjustment of cutting depth
- Round and long cut due to self-rotating knife

Item	Dimension mm	Weight g	Part No.
Cable knife, without blade 4 - 16 mm dia.	4 - 16	70	KL740416
Cable knife, without blade 8 - 28 mm dia.	8 - 28	70	KL740828
Accessories			Part No.
Replacement blade for electricians knife with hooked blade			KL749ES

Cable knife with straight blade



Characteristics

- Precise, fast and safe stripping of all standard round cables
- Including protective cover for the blade
- Removable reducing adapter made from extremely abrasion-resistant plastic (POM)
- No damage to inner conductor due to stepless adjustment of cutting depth
- Round and long cut due to self-rotating knife

Item	Dimension mm	Weight g	Part No.
Cable knife with straight blade	4 - 28	80	KL745GK
Accessories			Part No.
Replacement blade for electricians knife with hooked blade			KL749ES



Hand tools

Stripping tools for communication technology

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.
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

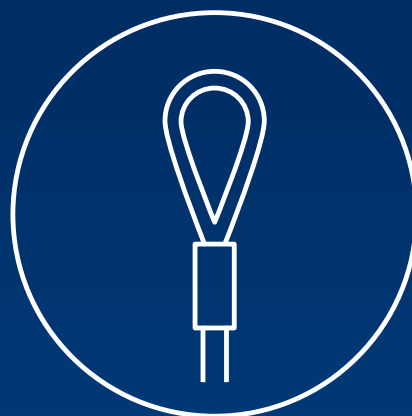
- Flexible cables, e.g. 3 x 0.75 mm², 10 mm² and 16 mm²

Item	Part No.
Coax-stripper	KL720

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	9.6
Polyester	9.6
Perlon	9.6
Nylon	9.6
Flex-O-Twist speed flex leader	9.7
Fibreglass cable pulling rods	9.7
Cable pulling systems	9.8
With Polyester tapes (Dura Spinner and Flexi Spinner)	9.8
With fibreglass tapes (Speedy Spinner)	9.9
Fish tapes in winder case	9.10
Smart Butler	9.12
Polyester Butler	9.14
Cable puller	9.14
Easy Roller (cable drum unwinder)	9.14
Easy Roller Plus	9.15
Cable puller with accessory	9.15
Pulling grips	9.16
Pulling grips, closed	9.16
Pulling grips, open	9.17
Accessory	9.18



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 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-14

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-14

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.
Tension head with eyelet M4 (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-14

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

Flex-O-Twist™ speed flex leader

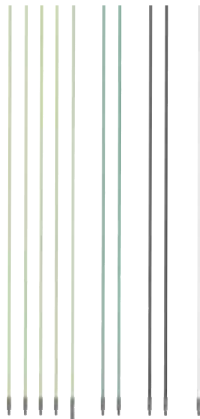


Characteristics

- Especially suitable for sharp bends
- Flexible fish tape leader

Length	Part No.	
300 mm	50308599	

Fibreglass cable pulling rods



Characteristics

- Almost unbreakable due to special outer jacket
- Time-saving cable laying
- Laying also under the most difficult conditions

Suitable for

- Cable installation and laying
- Pulling or pushing

Length	Part No.	Version
10 m	52055385	Comprising of: 4 pce. light green fibreglass rods 5.6 mm dia. with WW connecting sleeve, 1 pce. light green fibreglass rod 5.6 mm dia. with WW connecting sleeve and universal joint, 2 pce. black fibreglass rods 6 mm dia. with WW connecting sleeve, 1 pce. white nylon rod 4 mm dia. with WW connecting sleeve, 2 pce. green fibreglass rods 4.6 mm dia. with WW connecting sleeve
5 m	52055386	Consists of: 3 pce. light green fibreglass sticks 5.6 mm dia. with WW connecting bushing, 1 pce. black fibreglass stick 6 mm dia. with WW connecting bushing, 1 pce. white nylon stick 4 mm dia. with WW connecting bushing
Accessories		Part No.
Accessory set for cable pulling rods, 8-pcs.		52055387
Accessory set for cable pulling rods, 4-pcs.		52055388



Dura Spinner polyester fish tape system



- ▶ Cable pulling systems with innovative, extremely robust, twisted polyester fish tape
- ▶ Rotatable spring guide head

Characteristics

- Extremely robust fish tape for very narrow bending radii
- This product's high thrust makes it the ideal solution for laying additional cables
- New rotatable spring guide head
- Suitable for rigid and flexible conduits
- Tape pulled in and out very simply
- Can also be uncoiled on the floor
- Including accessories and spare parts
- Robust ABS housing
- No more broken tapes

Suitable for

- The laying of additional cables

Item	Part No.
Dura Spinner 3.0 mm dia., 20 m	52074656
Dura Spinner 3.0 mm dia., 30 m	52074657
Scope of supply	Part No.
Rotating spring guide head with eyelet, M4, 6 mm dia.	52055263
Tension head with eyelet, M4	
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
Tension head with eyelet M4 (1) and spring guide head M4 (1)	52055288

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-14

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.	
Polyester fish tape green 4.5 mm dia., 20 m		52055294	
Polyester fish tape green 4.5 mm dia., 25 m		52055295	
Polyester fish tape green 4.5 mm dia., 30 m		52055296	
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-14
- 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

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 dimen- sions 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., 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



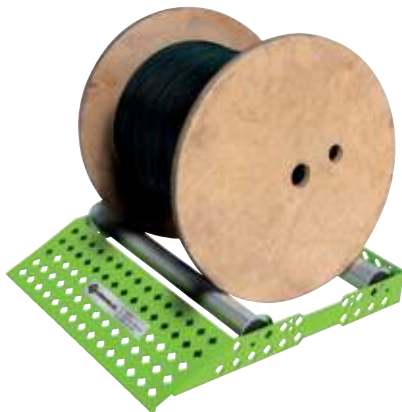
- ▶ Unique, user-friendly design, galvanised and sprayed
- ▶ Teflon-coated adapter for low resistance when winding and unwinding

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



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



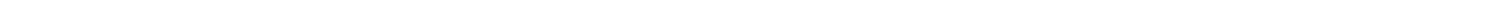
Characteristics

- 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



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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

Legend of pictograms used for type of conductors

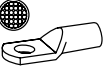
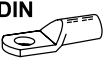
Material conductor			Type of conductors
Cu	Al	Cu and Al	
			Solid conductor (class 1 according to EN 60228) made of bright or coated soft-annealed copper, aluminium or aluminium alloy
			Multi-stranded conductor (class 2 according to EN 60228) made of bright or coated soft-annealed copper, aluminium or aluminium alloy
			Fine stranded conductor (class 5 according to EN 60228) made of bright or coated soft-annealed copper
			Superfine stranded conductor (class 6 according to EN 60228) made of bright or coated soft-annealed copper
			Solid sector shaped conductor 120 ° (class 1 according to EN 60228) made of aluminium or aluminium alloy
			Solid sector shaped conductor 90 ° (class 1 according to EN 60228) made of aluminium or aluminium alloy
			Multi-stranded sector shaped conductor 120 ° (class 2 according to EN 60228) made of bright or coated soft-annealed copper, aluminium or aluminium alloy
			Multi-stranded sector shaped conductor 90 ° (class 2 according to 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)



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



Legend of pictograms used for connecting materials

Connecting material	Designation
	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
	Copper compression cable lugs, double crimp (double cable entry)
	Solderless terminis, connectors and pin terminals to DIN - Cu
	Insulated solderless terminals
	Sleeves for compacted conductors and sector shaped conductors - Cu
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

Legend of pictograms used for test marks

Test mark	Content
	GS (safety tested): The GS marking of our crimping and cutting tools stands for the highest possible safety and quality level.
	UL (Underwriters Laboratory): The electrical connection material and the crimping tools are certified according to UL/CSA standards.
	CSA (Canadian Standard Association): Electrical connection material and tooling certified to UL/CSA standards..
	VDE (Verband der Elektrotechnik e.V.): Tests and certifies the electrical safety of tools, chargers and tools for live workung.
	IEC Certificates: The unique safety level of our products has been proven in the area of electrical connection material with the internationally recognized test standard IEC 61238-1 and for battery tools with the internationally recognized standard IEC 60 45-1.
	DNV Certificates: The world's largest consulting company for onshore and offshore systems
	CE Sign The product has been tested by the manufacturer and meets all EU-wide requirements for safety, health protection and environmental protection.



Markings of conductors and cables according to VDE (Germany)

Notes on wire names

Some of the conductors and cables mentioned below are offered as solid and stranded conductors depending on the cross-section. Please note this when processing.

In the list, a possible protective conductor (marking -J/-O) is not taken into account, as it is not relevant for the assignment and processing..

- Conductor class 1 = round conductor solid,
- Conductor class 2 = round conductor stranded,
- Conductor class 5 = round conductor fine-stranded,
- Conductor class 6 = round conductor superfine-stranded

Name of wire	Material conductor	Conductor class VDE 0295 / EN 60228	Connecting material							
										
2YSLCY	Copper	5	● *	●		●	●			●
HSL(C)H-OZ/JZ	Copper	5	● *	●		●	●			●
N2X(C)H	Copper	1			●	●				
		2	●			●	●			
NAYCWY	Aluminium	1						●	●	
		2						●	●	
NAYY	Aluminium	1						●	●	
		2						●	●	
NHX(C)H E30/E90	Copper	1			●	●				
		2	●			●	●			
NHXMH	Copper	1			●	●				
		2	●			●	●			
NSGAFÖU	Copper	5	● *	●		●	●			●
NSSHÖU	Copper	5	● *	●		●	●			●
NYCWY	Copper	1			●	●				
		2	●			●	●			
NYCY	Copper	1			●	●				
NYM	Copper	1			●	●				
		2	●			●	●			
NYY	Copper	1			●	●				
		2	●			●	●			
Y(S)SLY-OZ/JZ/OB/JB	Copper	5	● *	●		●	●			●



Names of conductors and cables for Austria: The names correspond to the German names, but without the indicated „N“.

Sector shaped conductors must be pre-rounded !

*** Please note the correct choice of tools or the use of the correct crimping dies when processing fine-stranded conductors (conductor class 5) ! The products offered are designed for the processing of stranded round conductors !**

Marking of conductors and cables according to European harmonised standard

Name of wire	Material conductor	Conductor class VDE 0295 / EN 60228	Connecting material							
										
H01N2-D	Copper	5	● *	●		●	●			●
		6		●		●	●			●
H03VV-F	Copper	5	● *	●		●	●			●
H05BQ-F	Copper	5	● *	●		●	●			●
H05RN-F	Copper	5	● *	●		●	●			●
H05RR-F	Copper	5	● *	●		●	●			●
H05V-K	Copper	5	● *	●		●	●			●
H05V-U	Copper	1			●	●				
H05VV-F	Copper	5	● *	●		●	●			●
H07BQ-F	Copper	5	● *	●		●	●			●
H07RN-F	Copper	5	● *	●		●	●			●
H07V-K	Copper	5	● *	●		●	●			●
H07V-R	Copper	2	●			●	●			
H07V-U	Copper	1			●	●				
HO1N2-D	Copper	5	● *	●		●	●			●
NYFAZ	Copper	5	● *	●		●	●			●



* Please note the correct choice of tools or the use of the correct crimping dies when processing fine-stranded conductors (conductor class 5) ! The products offered are designed for the processing of stranded round conductors !

Assignment of cables and conductors

a) Copper

- Our copper cable lugs and connectors are suitable for connecting copper cables according to DIN EN 60228 and copper conductors DIN 48201 part 1. Please use the table below.

b) Aluminium

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



Sector-shaped conductors must be rounded with pre-rounding tools before assembly.

Cross-section compatibility chart for cable lugs and connectors for copper and aluminum conductors

- With the help of this table you can determine the cross-section of your conductor in case of doubt. The minimum diameter of the conductor is for the classes 1 and 2 (not compacted). For classes 5 and 6 are defined by the conductance rather than the minimum diameter. Therefore, no specification can be made regarding the minimum diameter.

Nominal cross-section mm ²	Type of conductor acc. to DIN EN 60228 / IEC 60228								
	Copper conductors					Aluminium conductors			
	Round conductor solid, class 1	Round conductor multi-stranded, class 2	Round conductor multi-stranded compacted, class 2		Round conductor fine and superfine, class 5 and class 6	Round conductor solid, class 1		Round conductor multi-stranded compacted, class 2	
	Max. conductor dia. mm	Max. conductor dia. mm	Min. conductor dia. mm	Max. conductor dia. mm	Max. conductor dia. mm	Min. conductor dia. mm	Max. conductor dia. mm	Min. conductor dia. mm	Max. conductor dia. mm
0.5	0.9	1.1	–	–	1.1	–	–	–	–
0.75	1	1.2	–	–	1.3	–	–	–	–
1	1.2	1.4	–	–	1.5	–	–	–	–
1.5	1.5	1.7	–	–	1.8	–	–	–	–
2.5	1.9	2.2	–	–	2.4	–	–	–	–
4	2.4	2.7	–	–	3	–	–	–	–
6	2.9	3.3	–	–	3.9	–	–	–	–
10	3.7	4.2	3.6	4	5.1	3.4	3.7	3.6	4
16	4.6	5.3	4.6	5.2	6.3	4.1	4.6	4.6	5.2
25	5.7	6.6	5.6	6.5	7.8	5.2	5.7	5.6	6.5
35	6.7	7.9	6.6	7.5	9.2	6.1	6.7	6.6	7.5
50	7.8	9.1	7.7	8.6	11	7.2	7.8	7.7	8.6
70	9.4	11	9.3	10.2	13.1	8.7	9.4	9.3	10.2
95	11	12.9	11	12	15.1	10.3	11	11	12
120	12.4	14.5	12.3	13.5	17	11.6	12.4	12.3	13.5
150	13.8	16.2	13.7	15	19	12.9	13.8	13.7	15
185	15.4	18	15.3	16.8	21	14.5	15.4	15.3	16.8
240	17.6	20.6	17.6	19.2	24	16.7	17.6	17.6	19.2
300	19.8	23.1	19.7	21.6	27	18.8	19.8	19.7	21.6
400	22.2	26.1	22.3	24.6	31	21.2	22.2	22.3	24.6
500	–	29.2	25.3	27.6	35	24	25.1	25.3	27.6
630	–	33.2	28.7	32.5	39	27.3	28.4	28.7	32.5
800	–	37.6	–	–	–	30.9	32.1	–	–
1000	–	42.2	–	–	–	34.8	36	–	–

Material properties

Information on materials used for copper and aluminum cable lugs and connectors

- Cable end-sleeves to DIN 46228 part 1 and part 4 are manufactured from Cu to DIN EN 13600. from Cu to DIN EN 13600.

Electrical properties

- Our cable connections can be loaded with the currents defined in VDE 0298. For higher current loads, we ask for consultation.
The current values of VDE 0298 can be found in the table below.

Nominal cross-section mm ²	Group 1 One or more single-core conduc- tors laid in conduits		Group 2 Multi-core conductors, e. g. sheathed conductors, conduit wires, lead-sheathed conductors, flat webbed conductors, flexible cables		Group 3 Overhead single-core conductors with clearance of at least their diameter	
	Cu	Al	Cu	Al	Cu	Al
	(A)	(A)	(A)	(A)	(A)	(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

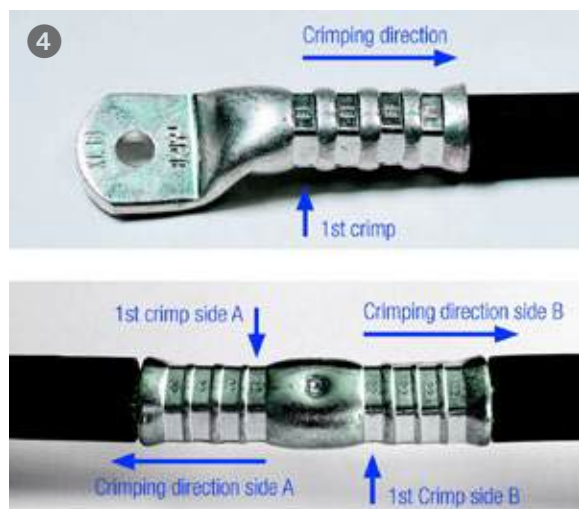
Values applicable only at an ambient temperature of 30 °C

Mechanical properties

- The connections made with our tools in accordance with the processing instructions have sufficient tensile strength in accordance with the standard applicable to the connection (depending on the material used), i.e. IEC 61238-1, DIN EN 60999, DIN EN 60352-2, UL486A-486B, DNV, UL486F.



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.



Assembly instructions for cable lugs and connectors

- 1 Strip conductor in line with insertion depth (+ 10 % because of length change of crimp sleeve).
- 2 The conductor ends must be cleaned mechanically prior to assembly.
- 3 Insert conductor fully into cable lug or connector.
- 4 Observing the crimping direction, crimp the cable lug or connector using the appropriate tools. The crimping direction for cable lug and connector is indicated in the diagram opposite.
- 5 Remove excess compound emerging from aluminum cable lugs and connectors.

We recommend the following number of crimps for individual cross sections:

Cross-section in mm ²	Tubular cable lugs			Cable lugs DIN 46235		Al-Cable lugs		
	5 mm Crimping die	width Crimping dies (quad-point indent crimping **)	EKM60ID	5 mm Crimping die	width Crimping dies	7 mm Crimping die	width Crimping dies	EKM60ID
6****	1			2				
10****	1		1	2				
16****	1	1	1	2	1	4	2	
25	2	1	1	2	1	4	2	
35	2	1	1	2	1	5	2	
50	2	1	1	3	1	5	2	2
70	2	1	1	3	1	6	3	3
95	2	1	1	4	2	6	3	3
120	2	1	1	4	2	6	3	3
150	2	1	1	4	2	6	3	3
185	2	1*	1	4	2	6	3	3
240	4	2	2	5	2	8	3	3
300	4	2		5	2	8	3	
400	5	2			3		4	
500					3		4	
625					3			
800					3			
1000					4 (20 mm) 2 (40 mm) ***			

* when using quad-point indent crimping (HK60VP, EK60VP/FT etc.) Number of crimping operations: 2

** Note the cross section of the tool !

*** Crimp with crimping dies of Series 100

**** When using crimping dies of the series 50, 2 crimps are required !



When crimping F-series cable lugs and solderless terminals according to DIN 46234 by using indent crimping dies, for each cross section only one crimp is necessary.

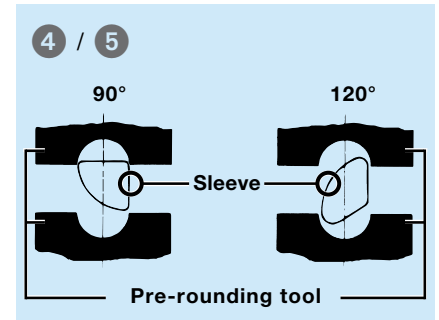
Assembly instructions for sleeves for type VHR and VHD compacted conductors

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

For sector-shaped conductors, we recommend the use of additional sector sleeves VHR 3 or VHR 4 and VHD 3 or VHD 4 with Cu cable lugs and connectors to prevent the conductor recoil. Sleeves need to be rounded with pre-rounding tools.

Please note:

- 1 Ensure that the conductor is deformed as little as possible when cutting to length.
- 2 Strip the conductor insulation in line with the insertion length.
- 3 Slip the sleeve up to the front cut edge of the conductor.
- 4 Place the conductor and sleeve in the pre-rounding tool as per the diagram.
- 5 Crimp the sleeve
 - a) Crimping operation as per the diagram (1st pre-crimp)
 - b) Crimp turned through 90° (2nd pre-crimp)
 - c) Crimp turned through 30° (finish-crimp)
 - d) Crimp turned through 30° as required (finish-crimp)



Instructions for fitting reduction sleeves

Only wide hydraulic crimping dies to be used when crimping more than two cross-sections.

Assembly instructions for full tension Al/steel connectors to DIN 48085, part 3

The connectors consist of an Al sleeve (E-Al 99.5) and a soft steel sleeve (St 52).

- 1 Straighten cable ends, remove dirt and any oxide layer.
- 2 Slip the Al-compression joint onto one of the cable ends.
- 3 Tie off the cable end and strip the Al cores.
- 4 Tie off Al and steel cores.
- 5 Slip on the steel sleeve and crimp through according to the crimping marks.
- 6 Slide the Al sleeve centrally over the crimped steel sleeve and crimp according to the crimping marks



Caution: Do not crimp in the centre, in the area of the steel connector. Do not crimp in the area of the cones.

- 7 Remove excess compound after crimping the connector.



Warning: The compound must not be removed, either fully or partially, prior to assembly.

The tool dies can be assigned either by colour-coding, or preferably based on the code assigned to the cross-section. The dies for the steel sleeve have a black finish, those for the Al sleeve are zinc-coated.

General information:

The crimping process has to be continued until the dies are completely closed, otherwise a proper crimp cannot be guaranteed.



General notes

Crimping dies:

The crimping dies of the series 18 as well as the series 25 correspond in the external dimensions of DIN 48083 part 1 or part 3. For all interchangeable dies, for mechanical tools as well as hydraulic tools, the series D (= for DIN cable lugs and connectors 46235 and 46267) and the series A (aluminium cable lugs and connectors as well as aluminium/copper cable lugs and connectors) the hexagonal dimensions are of DIN 48083 part 4.

Surfaces:

All mentioned dies are supplied "chrome-yellow" or „blue coated“ for copper and "galvanized" for aluminum and nickel.

Testing of our copper and aluminium connecting material was carried out with the following maximum torque on the connecting bolt.

Size of thread	Tightening torque (Nm)	Size of thread	Torque (Nm)
M 5	5	M 12	75
M 6	9	M 14	120
M 7	15	M 16	190
M 8	22	M 20	380
M 10	44		

Assembly instruction for screw connectors

Because they are detachable connecting elements, screw connectors are used preferably for heat-shrunk or cast resin joints. However, they also can be used in all other types of cable joints. Four-screw connectors are especially suitable for multi-stranded conductors, since the longer connector length increases the transverse conductance of the individual wires and the contact resistance decreases accordingly. In addition, higher pull-out values are achieved. Barrier type four-screw connector clamps are suitable for cables with mass-impregnated paper insulation.

In an electrolyte-free, e.g. dry environment, aluminum as well as copper conductors can be combined. This also applies in combination with heat-shrunk hoses. If conductors of different materials (e.g. Cu and Al cables) have to be connected, a barrier type connector is recommended.

While identical types of cables (e.g. NAYY-NAVY) can be used with non-barrier types of connectors for unequal cables (e.g. NAYY-NAKBA), plastic or earth cables, the use of connectors with barrier as an oil stop is recommended.

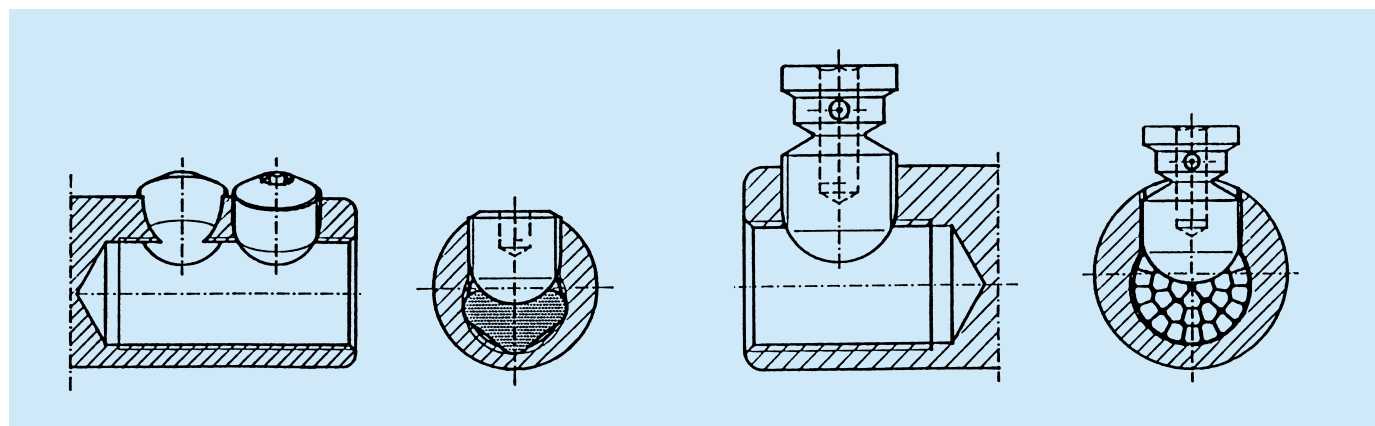
Insertion depth of conductors is controlled either by the conductor stop at the barrier, or by inspection hole on screw connectors without barrier.

In addition to the conventional screw connectors, we offer screw connectors with shear-off heads. The benefit of this design is the defined tightening torque, which is pre-determined by the maximum transferable torque at the rated breaking point. This contact force defined by the manufacturer guarantee optimum electrical and mechanical properties (DIN EN 61238). No torque wrenches are required for assembly of this connector type.

With standard screw connectors, the required contact pressures are reached at approx. 80 % of the specified torque. Over-crimping beyond the torque specified for the connector must be avoided.

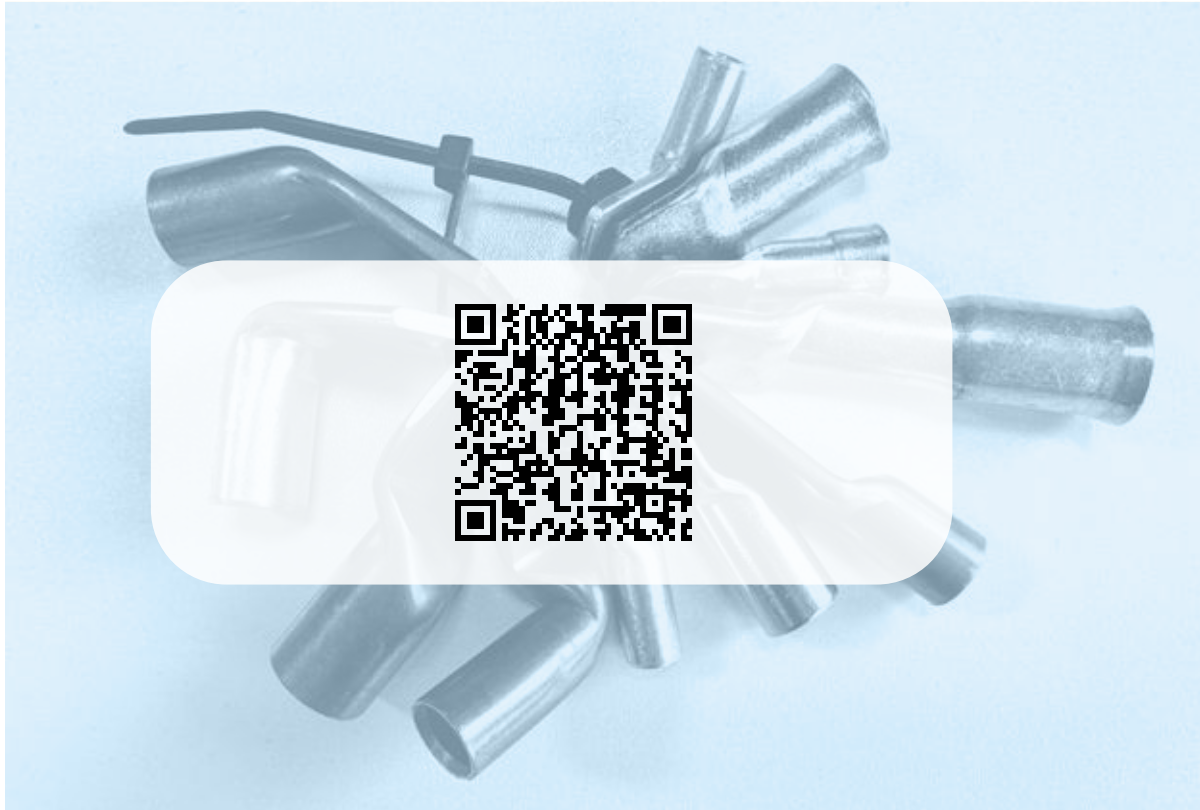
The cross-grooves on the conductor channels allow high tensile forces to be transmitted. The tensile forces of our screw connectors correspond to compression joints to DIN 46267, part 2, with identical cross section.

The screws are treated with a high-gliding, molybdenum sulphide-based lubricant. This guarantees adequate contact pressure with a relatively low tightening torque.



The perfect connection

Klauke is a manufacturer of cable lugs and connectors. For special applications or requirements, the standardised cable lugs no longer satisfy certain users and specific solutions tailored to the application concerned are required. Upon request, we develop and produce cable lugs and connectors specifically for you.





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 holmaking tools in ISO sizes acc. to EN 50262

ISO sizes	mm	Slug-Buster® punch	Slug-Splitter® punch	HSS hole saws	Step bits
12	12.5	✓			
16	16.5	✓	✓		✓
20	20.5	✓	✓	✓	✓
25	25.5	✓	✓	✓	✓
32	32.5	✓	✓		✓
40	40.5	✓	✓		✓
50	50.5	✓	✓	✓	
63	63.5	✓	✓	✓	

Holemaking systems

Round punch	Operation	Capacity	Hole size
Slug-Buster®	Manual, Hydraulic punches	max. 3.0 mm in St 37	12.5 to 64.0 mm
Slug-Splitter®	Hydraulic punches	max. 3.5 mm in V2A	15.2 to 64.0 mm
Speed Punch™	Hydraulic punches	3.5 mm in St 37	16.2 to 64.0 mm
Standard	Manual, Hydraulic punches	max. 3.0 mm in St 37	66.7 to 144.1 mm
Special shaped punches	Operation	Capacity	Hole size
Special shaped punches	Manual, Hydraulic punches	max. 3.0 mm in St 37 bzw. 1.5 mm in V2A	See data for the individual punches

Hydraulic punches

			Description
	LS 50 FLEX Battery powered hydraulic punching tool	LS 50 FLEX	- with micro-processor control - 60 kN punching force - punches up to 3.0 mm St 37 and up to 3.5 mm V2A, depending on hole size
	Hydraulic punch Quick Draw™ 7804E	50342916	- ideal for fast, frontal punching - 80 kN punching force - punches up to 3.0 mm St 37 and up to 3.5 mm V2A, depending on hole size
	Hydraulic punch Quick Draw 90™ 7904E	50342991	- rectangular cylinder head rotatable around 180° - maximum flexibility in narrow working spaces - 80 kN punching force - punches up to 3.0 mm St 37 and up to 3.5 mm V2A, depending on hole size
	Hydraulic punch with hand pump	52084920	- compact design of punch, pump and cylinder - 110 kN punching force - punches up to 3.5 mm St 37 and up to 3.5 mm V2A, depending on hole size
	Hydraulic punch with foot pump	52084941	- foot pump leaves both hands free for operating the punch - 110 kN punching force - punches up to 3.5 mm St 37 and up to 3.5 mm V2A, depending on hole size
	Hand hydraulic punch Flex Draw	52033843	- rectangular cylinder head rotatable around 180° - maximum flexibility in narrow working spaces - 80 kN punching force - punches up to 3.0 mm St 37 and up to 3.5 mm V2A, depending on hole size



Standards for cabling

A number of standardisation committees that define the technical features of cabling systems have been in existence since 1993. These directives must be observed when planning and setting up networks.

Full volumes can be obtained from specialist bookshops.

International standards

International Standards are published by the ISO (International Standards Organisation). In Europe these international directives are used for information purposes.

ISO/IEC IS 11801	Description of the performance requirements for a general cabling system	IEC 1156-1	Basic specification
IEC 1156	Multi-core and symmetrical conductors for digital message transmission	IEC 1156-2	Framework specification for service cables IEC1156-3 Framework specification for patch and equipment connecting cables
		IEC 1156-4	Framework specification for building connecting and rising cables

European standards

In collaboration with national standard institutes, the European Committee for Electrical Standardisation CENELEC (Comite Europeen de Normalisation Electrotechnique) has published European standards that are based on the international ISO/IEC 11801 and hence normative for Europe.

EN 50173	Description of the performance requirements for a general cabling system (EN 50173 also refers to HD 608 and also EN 55022)	EN 50168	Framework specification for patch and equipment connecting cables
608	General specification for symmetrical conductors for digital message transmission	EN 50169	Framework specification for building connection and rising cables
EN 50167	Framework specification for service cables	EN 55022	Framework specification for electromagnetic compatibility (EMC). This specification contains threshold values and measuring procedures for radio interference of data processing equipment.

American standards

The American standards are published by the EINTIA (Electronic Industries Association / Telecommunication Industries Association) an American Joint Venture.

TSB 36	Framework specification for symmetrical data cables (100 Ohm, unsheathed)	EIA/TIA 568	Framework specification for cabling systems
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1654K	1.70	166R16	1.48	171GH	1.127	178BR	1.127
1654L	1.71	166R1645	1.50	171GK	1.127	178BRL	1.127
165510	1.65	166R8	1.48	171GL	1.127	179B	1.127
165512	1.65	166R845	1.50	171R10	1.49	179BL	1.127
165516	1.65	1676	1.128	171R1045	1.51	17R	1.15
16556	1.65	1678	1.128	171R12	1.49	1800	1.127
16558	1.65	167H	1.126	171R1245	1.51	181R	1.57
1655K	1.70	167HL	1.126	171R14	1.49	18201A	1.149
1655L	1.71	167R10	1.49	171R1445	1.51	18202	1.149
165610	1.65	167R1045	1.51	171R16	1.49	18203	1.149
165612	1.65	167R12	1.49	171R1645	1.51	18203AZ	1.149
165616	1.65	167R1245	1.51	171R20	1.49	18251	1.149
16566	1.65	167R14	1.49	171R2045	1.51	18251A	1.149
16568	1.65	167R16	1.49	1720	1.149	182R	1.57
1656K	1.70	167R1645	1.51	17210	1.128	1830	1.151
1656L	1.71	167R8	1.49	17212	1.128	18303	1.149
165710	1.65	167R845	1.51	17218	1.128	18303AZ	1.149
165712	1.65	1686	1.128	1726	1.128	183R	1.57
165716	1.65	1688	1.128	1728	1.128	184R	1.57
16576	1.65	168R10	1.49	172R12	1.49	185R	1.57
16578	1.65	168R1045	1.51	172R1245	1.51	186R	1.57
1657K	1.70	168R12	1.49	172R14	1.49	187R	1.57
1657L	1.71	168R1245	1.51	172R1445	1.51	188R	1.57
165810	1.65	168R14	1.49	172R16	1.49	189R	1.57
165812	1.65	168R1445	1.51	172R1645	1.51	18R	1.15
165816	1.65	168R16	1.49	172R20	1.49	190R	1.57
16588	1.65	168R1645	1.51	172RH	1.127	191R	1.57
1658K	1.70	168T	1.126	172RK	1.127	192R	1.57
1658L	1.71	168TL	1.126	172RL	1.127	193R	1.57

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19R	1.15	222R	1.85	268R10	1.82	2785	1.152
1R10	1.8	2230	1.151	268R10V	1.82	2790	1.152
1R10MS	1.8	2235	1.151	268R12	1.82	27R	1.15
1R12	1.8	223R	1.85	268R12V	1.82	284R16	1.88
1R12MS	1.8	224R	1.85	268R16	1.82	285R25	1.88
1R5	1.8	2250	1.151	268R16V	1.82	286R25	1.88
1R5MS	1.8	225R	1.85	269R10	1.82	286R35	1.88
1R6	1.8	226R	1.85	269R10V	1.82	287R25	1.88
1R6MS	1.8	227R	1.85	269R12	1.82	287R35	1.88
1R8	1.8	228R	1.85	269R12V	1.82	287R50	1.88
1R8MS	1.8	229R	1.85	269R16	1.82	288R25	1.88
2010	1.153	22R	1.15	269R16V	1.82	288R35	1.88
2020	1.153	230R	1.85	26R	1.15	288R50	1.88
2025	1.153	231R	1.85	270R10	1.83	288R70	1.88
202R6	1.84	232R	1.85	270R10V	1.83	289R70	1.88
202R8	1.84	233R	1.85	270R12	1.83	289R95	1.88
2030	1.153	234R	1.85	270R12V	1.83	28R	1.15
2035	1.153	235R	1.85	270R16	1.83	290R120	1.88
203R10	1.84	23R	1.15	270R16V	1.83	290R70	1.88
203R8	1.84	243R	1.89	271R10	1.83	290R95	1.88
2040	1.152	244R	1.89	271R10V	1.83	291R120	1.88
2045	1.152	245R	1.89	271R12	1.83	291R150	1.88
204R10	1.84	246R	1.89	271R12V	1.83	292R120	1.88
204R8	1.84	247R	1.89	271R16	1.83	292R150	1.88
205R10	1.84	248R	1.89	271R16V	1.83	292R95	1.88
205R12	1.84	249R	1.89	271R20	1.83	29R	1.15
2060	1.152	24R	1.15	271R20V	1.83	2R10	1.8
206R10	1.84	250R	1.89	2720	1.150	2R10MS	1.8
206R12	1.84	251R	1.89	272R10	1.83	2R12	1.8
2070	1.152	252R	1.89	272R10V	1.83	2R12MS	1.8
2075	1.152	253R	1.89	272R12	1.83	2R5	1.8
207R10	1.84	25A13	2.96	272R12V	1.83	2R5MS	1.8
207R12	1.84	25R	1.15	272R16	1.83	2R6	1.8
2080	1.152	263R10	1.82	272R16V	1.83	2R6MS	1.8
2083	1.152	263R10V	1.82	272R20	1.83	2R8	1.8
208R10	1.84	263R8	1.82	272R20V	1.83	2R8MS	1.8
208R12	1.84	263R8V	1.82	2730	1.150	302R6	1.95
208R16	1.84	264R10	1.82	273R12	1.83	302R8	1.95
2090	1.152	264R10V	1.82	273R12V	1.83	303R10	1.95
209R12	1.84	264R12	1.82	273R16	1.83	303R8	1.95
209R16	1.84	264R12V	1.82	273R16V	1.83	304R10	1.96
20R	1.15	264R8	1.82	273R20	1.83	304R8	1.95
2105	1.152	264R8V	1.82	273R20V	1.83	305R10	1.96
210R12	1.84	265R10	1.82	274R12	1.83	305R12	1.96
210R16	1.84	265R10V	1.82	274R12V	1.83	306R10	1.96
2115	1.152	265R12	1.82	274R16	1.83	306R12	1.96
211R12	1.84	265R12V	1.82	274R16V	1.83	307R10	1.96
211R16	1.84	265R8	1.82	274R20	1.83	307R12	1.96
211R20	1.84	265R8V	1.82	274R20V	1.83	308R10	1.96
2123	1.153	266R10	1.82	2750	1.150	308R12	1.96
212R12	1.84	266R10V	1.82	2755	1.151	308R16	1.96
212R16	1.84	266R12	1.82	275R12	1.83	309R12	1.96
212R20	1.84	266R12V	1.82	275R12V	1.83	309R16	1.96
213R16	1.84	266R8	1.82	275R16	1.83	30R	1.15
213R20	1.84	266R8V	1.82	275R16V	1.83	310R12	1.96
2140	1.153	267R10	1.82	275R20	1.83	310R16	1.96
2145	1.153	267R10V	1.82	275R20V	1.83	311R12	1.96
214R16	1.84	267R12	1.82	2760	1.151	311R16	1.96
214R20	1.84	267R12V	1.82	2770	1.152	311R20	1.96
21R	1.15	267R8	1.82	2775	1.152	312R12	1.96
2220	1.151	267R8V	1.82	2780	1.152	312R16	1.96



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313R16	1.96	332R150	1.98	372R12	1.95	42R1045	1.13
313R20	1.96	332R185	1.98	372R16	1.95	42R12	1.11
314R16	1.96	332R240	1.98	372R20	1.95	42R1245	1.13
314R20	1.96	332R50	1.98	3735	1.150	42R5	1.11
31R	1.15	332R70	1.98	3738	1.129	42R545	1.13
322R10	1.97	332R95	1.98	373R10	1.95	42R6	1.11
322R16	1.97	333R120	1.98	373R12	1.95	42R645	1.13
323R10	1.97	333R150	1.98	373R16	1.95	42R8	1.11
323R16	1.97	333R185	1.98	373R20	1.95	42R845	1.13
324R10	1.97	333R240	1.98	374R12	1.95	430R120	1.87
324R16	1.97	333R300	1.98	374R16	1.95	430R70	1.87
324R25	1.97	33R	1.15	380/+	1.130	430R95	1.87
324R35	1.97	344R	1.99	380/-	1.130	431R120	1.87
324R416	1.97	345R	1.99	380/0 bis 9	1.130	431R150	1.87
324R50	1.97	346R	1.99	380/A bis Z	1.130	431R70	1.87
325R16	1.97	347R	1.99	3R10	1.8	431R95	1.87
325R25	1.97	348R	1.99	3R10MS	1.8	43210	1.130
325R35	1.97	349R	1.99	3R12	1.8	4328	1.130
325R50	1.97	34R	1.15	3R12MS	1.8	432R120	1.87
325R616	1.97	350R	1.99	3R5	1.8	432R150	1.87
325R625	1.97	351R	1.99	3R5MS	1.8	432R185	1.87
325R635	1.97	352R	1.99	3R6	1.8	43312	1.130
326R16	1.97	353R	1.99	3R6MS	1.8	4338	1.130
326R25	1.97	363R10	1.94	3R8	1.8	433R150	1.87
326R35	1.97	363R8	1.94	3R8MS	1.8	433R185	1.87
326R50	1.97	364R10	1.94	405R	1.86	433R240	1.87
327R120	1.98	364R12	1.94	406R	1.86	43410	1.130
327R16	1.97	364R8	1.94	407R	1.86	434R300	1.87
327R25	1.98	365R10	1.94	408R	1.86	43512	1.130
327R35	1.98	365R12	1.94	409R	1.86	43612	1.130
327R50	1.98	365R8	1.94	410R	1.86	43712	1.130
327R70	1.98	366R10	1.94	411R	1.86	43R10	1.11
327R95	1.98	366R12	1.94	412R	1.86	43R1045	1.13
328R120	1.98	366R8	1.94	413R	1.86	43R12	1.11
328R16	1.98	367R10	1.94	414R	1.86	43R1245	1.13
328R25	1.98	367R12	1.94	416R	1.86	43R5	1.11
328R35	1.98	367R8	1.94	417R	1.86	43R545	1.13
328R50	1.98	368R10	1.94	418R	1.86	43R6	1.11
328R70	1.98	368R12	1.94	419R	1.86	43R645	1.13
328R95	1.98	368R16	1.94	41R10	1.11	43R8	1.11
329R120	1.98	368R8	1.94	41R1045	1.13	43R845	1.13
329R35	1.98	3698	1.129	41R12	1.11	44R10	1.11
329R50	1.98	369R10	1.94	41R1245	1.13	44R1045	1.13
329R70	1.98	369R12	1.94	41R5	1.11	44R12	1.11
329R95	1.98	369R16	1.94	41R545	1.13	44R1245	1.13
32R	1.15	369R8	1.94	41R6	1.11	44R14	1.11
330R120	1.98	3708	1.129	41R645	1.13	44R1445	1.13
330R150	1.98	370R10	1.94	41R8	1.11	44R5	1.11
330R16	1.98	370R12	1.94	41R845	1.13	44R545	1.13
330R25	1.98	370R16	1.94	420R	1.86	44R6	1.11
330R35	1.98	370R8	1.94	421R	1.86	44R645	1.13
330R50	1.98	3718	1.129	422R	1.86	44R8	1.11
330R70	1.98	371R10	1.95	423R	1.86	44R845	1.13
330R95	1.98	371R12	1.95	424R	1.86	45R10	1.11
331R120	1.98	371R16	1.95	425R25	1.87	45R1045	1.13
331R150	1.98	371R20	1.95	426R35	1.87	45R12	1.11
331R185	1.98	371R8	1.95	428R50	1.87	45R1245	1.13
331R50	1.98	3720	1.150	428R70	1.87	45R14	1.11
331R70	1.98	3725	1.150	429R70	1.87	45R16	1.11
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45R8	1.11	47R845	1.14	50052322	6.16	50188925	5.7
45R845	1.13	48020	1.126	50052330	6.16	50191314	5.42
46910	1.125	48025	1.126	50052349	6.16	50191772	5.43
4696	1.125	48121	1.126	50052357	6.16	50191780	5.43
4698	1.125	48225	1.126	50052365	6.16	50191799	5.43
46R10	1.12	48327	1.126	50052373	6.16	50191802	5.43
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46R12	1.12	48R10	1.12	50053043	5.20	50191829	5.43
46R1245	1.14	48R1045	1.14	50053078	5.17	50191837	5.43
46R14	1.12	48R12	1.12	50067273	5.8	50191845	5.43
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46R1645	1.14	48R14	1.12	50069292	5.46	50206672	5.6
46R20	1.12	48R16	1.12	50069497SET	5.44	50206680	5.6
46R6	1.12	48R1645	1.14	50069519	5.9	50206702	5.6
46R645	1.14	48R20	1.12	50069527	5.9	50206710	5.6
46R8	1.12	48R2045	1.14	50069535	5.9	50206737	5.6
46R845	1.14	48R8	1.12	50069543	5.9	50206761	5.7
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47012	1.125	49R10	1.12	50069560	5.9	50206796	5.7
4706	1.125	49R1045	1.14	50069578	5.9	50211153	5.6
4708	1.125	49R12	1.12	50069586	5.9	50212141	5.7
47110	1.125	49R1245	1.14	50069594	5.9	50212168	5.7
47112	1.125	49R14	1.12	50069608	5.9	50215191	5.7
4716	1.125	49R1445	1.14	50069616	5.9	50225634	5.6
4718	1.125	49R16	1.12	50069624	5.9	50225642	5.6
47210	1.125	49R1645	1.14	50069632	5.9	50225650	5.7
47212	1.125	49R20	1.12	50069640	5.9	50225677	5.7
47218	1.125	49R8	1.12	50069659	5.9	50244760	5.6
4726	1.125	49R845	1.14	50069667	5.9	50244779	5.7
4728	1.125	4R10	1.8	50069691	5.46	50253417	5.6
47312	1.125	4R10MS	1.8	50069845	5.51	50253425	5.6
47318	1.125	4R12	1.8	50069853	5.51	50253441	5.6
4738	1.125	4R12MS	1.8	50069861	5.51	50253492	5.7
47410	1.125	4R14	1.8	50069870	5.51	50253506	5.7
47412	1.125	4R14MS	1.8	50069888	5.51	50253514	5.7
47418	1.125	4R5	1.8	50069900	5.52	50253603	5.7
47512	1.125	4R5MS	1.8	50115286	6.16	50253611	5.7
47518	1.125	4R6	1.8	50115294	6.16	50253727	5.7
47612	1.125	4R6MS	1.8	50115308	6.16	50253832	5.7
47618	1.125	4R8	1.8	50115316	6.16	50254030	5.7
47712	1.126	4R8MS	1.8	50115324	6.16	50254278	5.7
47718	1.126	50000420	5.11	50115332	6.16	50254286	5.7
47816	1.126	50016962	9.11	50115340	6.16	50265342	5.24
47818	1.126	50024086	5.6	50115359	6.16	50292099SET	5.44
47822	1.126	50024094	5.6	50115367	6.16	50294512	5.12
47916	1.126	50024337	5.6	50115375	6.16	50294520	5.12
47918	1.126	50031708	5.12	50115383	6.16	50305581	9.16
47925	1.126	50040405	5.11	50115391	6.16	50305603	9.16
47R10	1.12	50041886	5.11	50115413	3.49	50305620	9.16
47R1045	1.14	50042181	5.11	50115472	5.30	50305646	9.16
47R12	1.12	50052128	6.15	50115723	5.14	50305662	9.16
47R1245	1.14	50052144	6.17	50121510	5.52	50305689	9.16
47R14	1.12	50052152	6.17	50125630SET	5.44	50305700	9.16
47R1445	1.14	50052160	6.17	50125630SET	5.45	50305727	9.16
47R16	1.12	50052241	6.15	50125701	3.50	50305743	9.16
47R1645	1.14	50052250	6.15	50132849	7.10	50305760	9.16
47R20	1.12	50052276	6.16	50186353	5.7	50305786	9.16
47R2045	1.14	50052284	6.16	50188860	5.6	50305808	9.16
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50305883	9.16	50356160SET	5.36	50610281	5.13	52041741	9.10
50305905	9.16	50356178SET	5.37	50610809	5.16	52041743	9.10
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50305964	9.16	50361716	5.8	50610892	5.16	52041747	9.10
50306588	9.17	50365061	5.6	50610922	5.16	52041748	9.11
50306600	9.17	50365088	5.8	50610953	5.16	52041749	9.11
50306626	9.17	50366904SET	5.31	50611257	5.15	52041750	9.10
50306642	9.17	50366912SET	5.32	506R	1.56	52041751	9.10
50306669	9.17	50366920	5.30	506RLD	1.56	52041752	9.11
50306685	9.17	50366939	5.31	50766797	5.34	52041753	9.11
50307584	9.17	50369105	5.6	50766803	5.34	52042827	5.12
50308599	9.7	50371541	5.46	50766919	6.16	52045296	5.13
50310100	9.16	50371550	5.46	507R	1.56	52045297	5.13
50310127	9.16	50371568	5.46	507RLD	1.56	52046100	5.20
50310143	9.16	50371576	5.46	508R	1.56	52049371	5.51
50310240	9.17	50377299	7.18	508RLD	1.56	52055260	9.6
50310267	9.17	50383167	7.18	509R	1.56	52055261	9.6
50310283	9.17	50385224	5.46	509RLD	1.56	52055262	9.6
50310305	9.17	504R	1.56	50R10	1.12	52055265	9.14
50310321	9.17	504RLD	1.56	50R1045	1.14	52055267	9.13
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50314823	9.17	505RLD	1.56	50R1245	1.14	52055270	9.6
50314831	9.17	50600010	5.14	50R14	1.12	52055271	9.6
50314840	9.17	50600168	5.14	50R1445	1.14	52055272	9.6
50319620	5.8	50600192	5.14	50R16	1.12	52055273	9.6
50319639	5.8	50600257	5.13	50R1645	1.14	52055274	9.6
50319647	5.8	50600311	5.13	50R20	1.12	52055275	9.6
50319655	5.8	50600346	5.13	50R8	1.12	52055276	9.6
50319663	5.8	50600370	5.13	50R845	1.14	52055277	9.6
50319892	5.8	50600400	5.13	510R	1.56	52055278	9.6
50319906	5.8	50600435	5.13	510RLD	1.56	52055279	9.6
50319914	5.8	50600478	5.13	511R	1.56	52055280	9.6
50319930	5.8	50600508	5.13	511RLD	1.56	52055281	9.6
50319957	5.8	50600532	5.13	512R	1.56	52055292	9.6
50319965	5.8	50600567	5.13	512RLD	1.56	52055293	9.6
50319981	5.8	50600591	5.13	51300430	5.12	52055294	9.6
50323989SET	5.38	50600621	5.13	513R	1.56	52055295	9.6
50328034SET	5.38	50600656	5.13	513RLD	1.56	52055296	9.6
50339672	5.12	50600680	5.13	514R	1.56	52055298	9.9
50341367	9.15	50600710	5.13	514RLD	1.56	52055299	9.9
50341375	9.15	50600745	5.13	51R10	1.12	52055300	9.9
50341383	9.15	50600770	5.16	51R1045	1.14	52055313	9.12
50342916	5.25	50601016	5.17	51R12	1.12	52055315	9.12
50342991	5.25	50601148	5.12	51R1245	1.14	52055316	9.12
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50344200	5.18	50601172	5.20	51R1445	1.14	52055321	9.14
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50351796	5.8	50602349	5.14	52033817	5.19	52055338	9.12
50351800	5.8	50602381	5.15	52033818	5.19	52055339	9.12
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50351826	5.8	50602462	5.8	52033820	5.19	52055341	9.12
50351923	5.6	50610045	5.14	52033832	5.19	52055347	9.12
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52055360	9.12	52057751	5.42	52085681	5.7	56N4	1.40
52055361	9.12	52057752	5.42	52085684	5.7	56N5	1.40
52055362	9.12	52057753	5.42	52085686	5.11	572R6	1.104
52055378	9.18	52057754	5.43	52085688	5.11	573R6	1.104
52055379	9.18	52057755	5.43	52085689	5.12	573R8	1.104
52055380	9.18	52057756	5.43	52085690	5.12	574R8	1.104
52055381	9.18	52057757	5.43	52085691	5.12	575R8	1.104
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52055386	9.7	52057763	5.43	52086978	5.24	57N4	1.40
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52057729	5.42	52074656	9.8	53R16	1.12	59N5	1.40
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SK32B	1.168	ST22B	1.162	SV310AKV	1.111	UCM12	6.14
SK32L	1.175	ST23B	1.162	SV310V	1.111	UCM5	6.14
SK43L	1.175	ST2B	1.164	SV311AKNL	1.111	UCM6	6.14
SK43NB	1.170	ST31B	1.164	SV312AKNL	1.111	UCM8	6.14
SK45B	1.168	ST32B	1.165	SV312AKNLV	1.111	UCN2980	6.14
SK47B	1.169	ST33B	1.166	SV315	1.111	UCUNC12	6.14
SK4L	1.175	ST3B	1.165	SV315V	1.111	UCUNC14	6.14
SK50B	1.172	ST5L	1.167	SV319AKNLV	1.111	UCUNC38	6.14
SK65B	1.171	ST9698	1.132	SV320	1.111	UPD6	6.14
SK65L	1.177	ST9708	1.132	SV320V	1.111	VHD1203	1.78
SK82P	1.174	ST9718	1.132	SV35	1.23	VHD1204	1.79
SK82S	1.174	ST9728	1.132	SV400	1.113	VHD1503	1.78
SKR1204	1.116	ST9738	1.132	SV405V	1.113	VHD1504	1.79
SKR1501504	1.116	STV10	1.23	SV4	1.23	VHD1853	1.78
SKR1503	1.116	STV1525	1.23	SV410	1.113	VHD1854	1.79
SKR1504	1.116	STV16	1.23	SV410AK	1.113	VHD2404	1.79
SKR150504	1.116	STV25	1.23	SV420V	1.113	VHD353	1.78
SKR1854	1.116	STV35	1.23	SV430	1.114	VHD354	1.79
SKV1525	1.24	STV4	1.23	SV430AK	1.114	VHD503	1.78
SKV16	1.24	STV50	1.23	SV440AK	1.114	VHD504	1.79
SKV4	1.24	STV6	1.23	SV50	1.23	VHD703	1.78
SKV6	1.24	SV100	1.109	SV6	1.23	VHD704	1.79
SR106	1.22	SV10	1.23	T15	7.16	VHD953	1.78
SR108	1.22	SV1525	1.23	TG3	7.15	VHD954	1.79
SR166	1.22	SV16	1.23	THK120	2.72	VHR120	1.76
SR168	1.22	SV200	1.109	THK22	2.68	VHR1203	1.77
SR256	1.22	SV200BK	1.109	TT2	1.178	VHR1204	1.79
SR258	1.22	SV25	1.23	TT4	1.178	VHR150	1.76
SR3510	1.22	SV300	1.110	TV10	1.17	VHR1503	1.77
SR358	1.22	SV300V	1.110	TV120	1.17	VHR1504	1.79
SR5010	1.22	SV301	1.110	TV150	1.17	VHR16	1.76
SR506	1.22	SV301AK	1.110	TV15	1.17	VHR185	1.76
SR508	1.22	SV301AKV	1.110	TV16	1.17	VHR1853	1.77
SR65	1.22	SV301V	1.110	TV185	1.17	VHR1854	1.79
SR66	1.22	SV302	1.110	TV2.5	1.17	VHR240	1.76
SSG105	4.14	SV302AK	1.110	TV240	1.17	VHR2404	1.79
SSGG105	4.14	SV302AKV	1.110	TV25	1.17	VHR25	1.76
SSGG85	4.14	SV302V	1.110	TV35	1.17	VHR300	1.76
ST11B	1.163	SV303	1.110	TV4	1.17	VHR35	1.76
ST12B	1.164	SV303AK	1.110	TV50	1.17	VHR353	1.77
ST13B	1.165	SV303AKNL	1.110	TV6	1.17	VHR354	1.79
ST15B	1.163	SV303V	1.110	TV70	1.17	VHR400	1.76
ST1705	1.69	SV304AKNL	1.110	TV95	1.17	VHR50	1.76
ST1710	1.69	SV304AKNLV	1.110	UA12P	6.14	VHR503	1.77
ST1715	1.69	SV305	1.112	UA12TKL	6.14	VHR504	1.79
ST1716	1.69	SV305AK	1.112	UA15T	2.95	VHR70	1.76
ST1716IS	1.67	SV305AKV	1.112	UA22	6.14	VHR703	1.77
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