*„Build on our experience:
No matter what the application,
we guarantee safe electrical connections.“*

Torsten Selbach,
Technical Support

blue connection® – because modern cables have narrower diameters

Modern compacted multi-stranded conductors are up to 15 percent thinner than comparable predecessors. At the same time, savings are often made on sheathing and insulation. Here, conventional tubular cable lugs and connectors usually have too much play - a considerable safety risk which has to date necessitated additional sleeves for compacted conductors.

Klauke has developed blue connection®, a special connection system for compacted multi-stranded conductors to VDE 0295 Class 2. Its copper tubular cable lugs and connectors are an exact fit for the new, thinner generation of conductors without any additional sleeves whatsoever. In combination with custom-made blue connection® crimping dies for Klauke's established tools, compacted conductors will in future also be crimped extremely simply, safely and efficiently.

Conventional, uncompacted multi-stranded conductor
- *Large cable diameters dictated by conductor construction*
- *Round single wires*

Compacted multi-stranded conductors to VDE 0295 Class 2
- *Narrower cable diameter with the same conductor cross-section thanks to compacted single wires*

Compacted conductors
with space-saving single wires

Uncompacted conductors
with round single wires

Comparison between conventional cables and the new cable generation with up to 15% narrower conductor diameter

Only blue fits exactly!

Cable lug with blue crimp info + blue crimping die + blue crimping tool = blue connection®

Simply *assign and crimp.*

- Perfect fit on compacted conductors to VDE 0295 Class 2.
- Simple assignment of crimping tool/crimping die through colour-coding system.
- Existing tools with replaceable crimping dies can continue to be used with blue connection® products.

Benefits:

- Crimping of compacted conductors without additional sleeves.
- No investment in new tools, only the crimping dies are replaced.

New designation – **Safely connected.**

- Designated by manufacturer's designation, nominal cross-section and hole dimension.
- Crimping direction and number of crimps.
- Compact design with form radius.
- Tested to IEC 61238, part 1.

Benefits:

- All information available at a glance.
- Bad crimps are avoided.
- Highly-stable and vibration-proof.

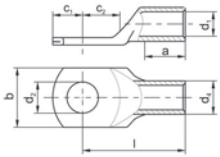
Efficient: High *productivity,* **low** *costs*

- New crimp geometries reduce the number of crimps.
- The processing of sleeves for compacted conductors is eliminated.
- Up to 35% less material used thanks to the compact design.
- Smaller packing units.

Benefits:

- Less time and lower cost expenditure when using the new cable lug system.
- Processing of sleeves for compacted conductors is eliminated.
- Lower material costs.
- Reducing storage costs through reduced material usage.

Tubular cable lugs, blue connection®, Cu



- For compacted multi-stranded conductors to VDE 0295 Class 2
- Accurate assignment of crimping tool/crimping die through colour-coding system
- Less crimpings due to max. crimping width
- Reduced costs due to compact dimensions

Characteristics

- Total cross-section: 6 - 400 mm²
- Rigid design thanks to special shaped radius
- Processing takes place without the use of additional sleeves
- Annealed material optimises material and crimping properties
- Flat contact surface and precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Tin-plated

Order info

- Also available with inspection hole, part number appendix “ms”
- 45° angle version also available, part number appendix “45”
- 90° angle version also available, part number appendix “90”
- Now also available in handy plastic boxes for smaller requirements, part number appendix “SB”

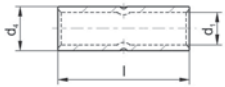
Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
6	M5	**6B5**	3.20	9.0	10.50	5.30	5.00	5.00	6.50	20.50	0.24	50
	M6	**6B6**	3.20	9.0	11.00	6.40	5.00	6.00	8.00	22.00	0.26	50*
	M8	**6B8**	3.20	9.0	12.50	8.40	5.00	8.00	10.00	24.00	0.29	50*
	M10	**6B10**	3.20	9.00	14.00	10.50	5.00	10.00	11.50	25.50	0.30	50
10	M5	**10B5**	4.20	9.00	11.50	5.30	6.20	5.00	6.50	21.00	0.35	50
	M6	**10B6**	4.20	9.00	12.00	6.40	6.20	6.00	8.00	22.50	0.39	50*
	M8	**10B8**	4.20	9.00	14.00	8.40	6.20	8.00	10.00	24.50	0.43	50*
	M10	**10B10**	4.20	9.00	15.00	10.50	6.20	10.00	11.50	26.00	0.44	50
16	M6	**16B6**	5.50	10.0	13.50	6.40	7.70	6.00	8.00	25.00	0.61	50*
	M8	**16B8**	5.50	10.0	15.00	8.40	7.70	8.00	10.00	27.00	0.65	50*
	M10	**16B10**	5.50	10.00	16.50	10.50	7.70	10.00	11.50	28.00	0.69	50
	M12	**16B12**	5.50	10.00	18.50	13.00	7.70	12.00	13.00	29.50	0.72	50
25	M6	**25B6**	6.60	10.0	15.00	6.40	9.00	6.00	8.00	25.50	0.81	25
	M8	**25B8**	6.60	10.0	16.00	8.40	9.00	8.00	10.00	27.50	0.88	50*
	M10	**25B10**	6.60	10.0	18.00	10.50	9.00	10.00	11.50	29.00	0.93	50*
	M12	**25B12**	6.60	10.0	19.50	13.00	9.00	12.00	13.00	30.50	0.97	25
35	M8	**35B8**	7.70	11.0	18.00	8.40	10.60	8.00	10.00	29.50	1.34	50*
	M10	**35B10**	7.70	11.0	19.50	10.50	10.60	10.00	11.50	31.00	1.42	50*
	M12	**35B12**	7.70	11.0	21.00	13.00	10.60	12.00	13.00	32.50	1.48	25
50	M8	**50B8**	9.20	11.0	19.00	8.40	12.40	8.00	10.00	31.00	1.87	25*
	M10	**50B10**	9.20	11.0	21.00	10.50	12.40	10.00	11.50	32.50	1.95	25*
	M12	**50B12**	9.20	11.0	23.00	13.00	12.40	12.00	13.00	34.00	2.05	25
70	M8	**70B8**	11.00	21.0	22.00	8.40	14.60	8.00	10.00	41.50	3.17	25
	M10	**70B10**	11.00	21.0	24.00	10.50	14.60	10.00	11.50	43.00	3.33	25*
	M12	**70B12**	11.00	21.0	25.00	13.00	14.60	12.00	13.00	44.50	3.46	25*
	M16	**70B16**	11.00	21.0	28.00	17.00	14.60	15.00	17.00	48.50	3.73	10
95	M10	**95B10**	13.00	21.0	26.00	10.50	17.00	10.00	11.50	44.50	4.55	25*
	M12	**95B12**	13.00	21.0	28.00	13.00	17.00	12.00	13.00	46.00	4.75	25*
	M16	**95B16**	13.00	21.0	30.00	17.00	17.00	15.00	17.00	50.00	5.01	10

Tubular cable lugs, blue connection®, Cu

Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
120	M10	**120B10**	14.50	22.0	28.00	10.50	19.00	10.00	11.50	47.00	6.02	25*
	M12	**120B12**	14.50	22.0	29.50	13.00	19.00	12.00	13.00	48.50	6.26	25*
	M16	**120B16**	14.50	22.0	32.00	17.00	19.00	15.00	17.00	52.50	6.73	10
150	M10	**150B10**	16.20	22.0	30.00	10.50	21.00	10.00	11.50	48.50	7.41	10
	M12	**150B12**	16.20	22.0	32.00	13.00	21.00	12.00	13.00	50.00	7.71	10
	M16	**150B16**	16.20	22.0	34.00	17.00	21.00	15.00	17.00	54.00	8.25	10
	M20	**150B20**	16.20	22.0	36.50	21.00	21.00	18.50	21.00	58.00	8.84	10
185	M10	**185B10**	18.00	24.0	33.00	10.50	23.00	10.00	11.50	52.00	9.21	10
	M12	**185B12**	18.00	24.0	33.00	13.00	23.00	12.00	13.00	53.50	9.43	10
	M16	**185B16**	18.00	24.0	36.00	17.00	23.00	15.00	17.00	57.70	10.14	10
	M20	**185B20**	18.00	24.0	38.50	21.00	23.00	18.50	21.00	61.50	10.90	10
240	M12	**240B12**	20.60	24.0	38.00	13.00	26.00	12.00	13.00	56.00	12.46	10
	M16	**240B16**	20.60	24.0	38.00	17.00	26.00	15.00	17.00	60.00	13.24	10
	M20	**240B20**	20.60	24.0	41.00	21.00	26.00	18.50	21.00	64.00	14.14	10
300	M12	**300B12**	23.10	33.0	41.00	13.00	28.00	12.00	13.00	67.00	14.39	5
	M16	**300B16**	23.10	33.0	41.00	17.00	28.00	15.00	17.00	71.00	15.27	5
	M20	**300B20**	23.10	33.0	41.00	21.00	28.00	18.50	21.00	75.00	16.2	5
400	M16	**400B16**	26.10	34.0	47.00	17.00	32.00	15.00	17.00	74.50	22.16	5
	M20	**400B20**	26.10	34.0	47.00	21.00	32.00	18.50	21.00	78.50	23.36	5

- 10-300 mm² IEC tested
- * = Also available in small handy packs
- **Tools: see chart page 29**

Butt connectors, blue connection®, Cu



- For compacted multi-stranded conductors to VDE 0295 Class 2
- Accurate assignment of crimping tool/crimping die through colour-coding system
- Less crimpings due to max. crimping width
- Reduced costs due to compact dimensions

Characteristics

- Total cross-section: 6 - 400 mm²
- Processing takes place without the use of additional sleeves
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

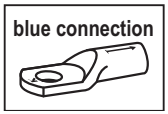
- Tin-plated

Order info

- Now also available in handy plastic boxes for smaller requirements, part number appendix “SB”

Nominal cross section mm²	Part No.	Dimension mm d1	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
6	**6B**	3.20	5.00	25.00	0.255	50*
10	**10B**	4.20	6.20	25.00	0.360	50*
16	**16B**	5.50	7.70	27.00	0.543	50*
25	**25B**	6.60	9.00	27.00	0.699	50*
35	**35B**	7.70	10.60	28.00	1.026	50*
50	**50B**	9.20	12.40	28.00	1.334	25*
70	**70B**	11.00	14.60	48.00	3.065	25*
95	**95B**	13.00	17.00	48.00	3.987	25*
120	**120B**	14.50	19.00	50.00	5.157	25*
150	**150B**	16.20	21.00	52.00	6.379	10
185	**185B**	18.00	23.00	56.00	7.889	10
240	**240B**	20.60	26.00	58.00	10.000	10
300	**300B**	23.10	28.00	76.00	13.079	5
400	**400B**	26.10	32.00	78.00	18.453	5

- 10-300 mm² IEC tested
- * = Also available in small handy packs
- **Tools: see chart page 29**



Tool application chart

Tubular cable lugs and butt connectors blue connection©

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
6-50	K05BC		•						⬡	246
6-150	K354			•					⬡	260
	EK354					•			⬡	314
	EK354L					•			⬡	316
6-240	HK60UNV	+UA5			•				⬡	354
	EK505L					•			⬡	318
	EKM60UNVL	+UA5				•			⬡	356
	EK60UNVL	+UA5				•			⬡	357
6-300	K22		•						⬡	264
	HK6022				•				⬡	288
	HK60UNV	+UA22			•				⬡	354
	EK6022L					•			⬡	324
	EKM6022L					•			⬡	322
	EKM60UNVL					•			⬡	356
	EK60UNVL					•			⬡	357
	THK22						•		⬡	364
	PK22							•	⬡	364
	PK60UNV	+UA22						•	⬡	355
10-120	K06BC		•						⬡	249
16-400	HK12030				•				⬡	292
	HK12042				•				⬡	294
	HK120U				•				⬡	296
	EK12030L					•			⬡	330
	EK12042L					•			⬡	332
	EK120UNVL					•			⬡	358
	EK120UL					•			⬡	334
	HK122EL380						•		⬡	390
	PK12042							•	⬡	368
	PK120U							•	⬡	370
25-150	K09BC		•						⬡	250

Safe connections
to Klauke standards.

Copper tubular cable lugs and connectors for all applications.

Safe electrical connections are crucial. Power outages caused by faulty cable connections can cause severe damage. The power supply is interrupted. Production comes to a stand-still. Traffic is disrupted.

Tubular cable lugs and connectors from Klauke meet the highest quality requirements and satisfy international standards. Traditional applications are power supply, transportation, trade and industry, as well as building installation and railway technology.
We also develop and produce tailor made solutions.

Klauke tubular cable lugs are suitable for practically every application that uses copper conductors.

- **Extensive product range for low and medium-voltage applications.**
- **Distinct chamfer for easy entry of the conductor, burr-free edges.**
- **Consistent precision, high safety and rating properties thanks to high-quality pure electrolytic copper.**
- **Klauke coding system with manufacturer's identification, nominal cross-section and hole size.**

Make sure, when using Klauke connecting materials, that you always crimp towards the cable.

Connections with system *for every application.*

- Products to Klauke standards in various designs and shapes.
- To international standards such as IEC, UL, DNV and German Lloyd.
- Solutions for cables with compacted round conductors, cables with sector-shaped conductors and to suit individual requirements.
- Plus all corresponding manual and hydraulic crimping tools.

Benefits:

- The right products for every installation scenario.
- **Highest flexibility for connecting cables.**
- Standards-compliance permits international application.
- **A single source for everything** – from cable lugs to tools.
- Guarantees the correct tools for professional electrical installation.

More from Page 218.

1. Basic material

2. Folding and pressing

3. Punching

4. Annealing

5. Tinned end product

Pure material, special processing.

- Klauke tubular cable lugs are made from quality E-Cu tubes. All suppliers are certified.
- Defined, unique material properties by annealing the cable lugs.

Benefits:

- Optimised conductivity, enhanced safety and high cable lug rating thanks to high quality material.
- The **annealing of cable lugs during production** sets Klauke products apart and guarantees **outstanding installation properties,** with **minimised crimp force and less tool wear**.

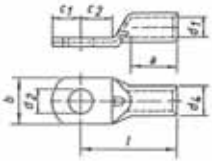
Hold even under strong and severe vibrations.

- Consistent material thickness, precise diameters and an accurate fit mean optimised processing and ultimate safety.
- Tested to DIN EN 61373 Class 1B **“Railway applications”**.

Benefits:

- With professional installation of the correct types, optimised stability even with mechanically stressed or severely vibrating connections.
- Less repair and maintenance.
- Safe connections even under high load, e.g. in public transport services.

Tubular cable lugs, Cu, standard type



- Cable lug for fine stranded conductors to VDE 0295 Class 5
- With inspection hole for monitoring the inserted cable

Characteristics

- Total cross-section: 0.75 - 6 mm²
- Annealed material optimises material and crimping properties
- Flat contact surface and precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info

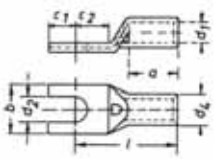
- Now also available in handy plastic boxes for smaller requirements, part number appendix “SB”

Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
0.75	M3	**91R3**	1.3	6	6.0	3.2	2.8	3.25	4.0	12	0.060	100*
	M4	**91R4**	1.3	6	6.5	4.3	2.8	4.00	5.0	13	0.060	100
	M5	**91R5**	1.3	6	7.5	5.3	2.8	4.75	5.5	14	0.060	100
1.5	M3	**92R3**	1.8	6	6.5	3.2	3.3	3.25	4.0	12	0.080	100
	M4	**92R4**	1.8	6	6.5	4.3	3.3	4.00	5.0	13	0.080	100
	M5	**92R5**	1.8	6	7.5	5.3	3.3	4.75	5.5	14	0.080	100*
	M6	**92R6**	1.8	6	9.0	6.5	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	8.5	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	18	0.210	100
	M5	**94R5**	3.0	8	9.0	5.3	5.0	4.75	6.0	18	0.213	100*
	M6	**94R6**	3.0	8	10.0	6.5	5.0	6.50	6.5	19	0.220	100
	M8	**94R8**	3.0	8	13.0	8.5	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	6.5	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

- * = Also available in small handy packs
- **Tools: see chart page 55**

Tubular cable lugs, Cu, fork type

- For fine stranded conductors
- Fork-type version for simple and direct screw mounting
- With inspection hole for monitoring the inserted cable



Characteristics

- Total cross-section: 0.75 - 16 mm²
- Annealed material optimises material and crimping properties
- Flat contact surface and precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

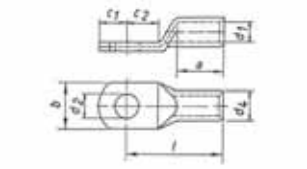
Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
0.75	M3	**91C3**	1.3	6	6.0	3.2	2.8	3.25	4.0	12	0.06	100
	M4	**91C4**	1.3	6	6.5	4.3	2.8	4.00	5.0	13	0.05	100
	M5	**91C5**	1.3	6	7.5	5.3	2.8	4.75	5.5	14	0.06	100
1.5	M3	**92C3**	1.8	6	6.5	3.2	3.3	3.25	4.0	12	0.07	100
	M4	**92C4**	1.8	6	6.5	4.3	3.3	4.00	5.0	13	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	6.5	3.3	6.50	6.5	16	0.08	100
2.5	M3	**93C3**	2.3	6	7.5	3.2	4.2	3.25	4.0	12	0.12	100
	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	6.5	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	6.5	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	6.5	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	5.5	7.0	6.50	7.5	22	0.45	100
	M6	**96C6**	4.5	10	12.0	6.5	7.0	6.50	7.5	22	0.41	100
	M8	**96C8**	4.5	10	15.0	8.5	7.0	10.00	10.0	25	0.52	100
16	M5	**97C5**	5.5	13	12.0	5.5	8.5	5.50	6.5	26	0.81	100
	M6	**97C6**	5.5	13	12.0	6.5	8.5	6.25	7.5	27	0.81	100
	M8	**97C8**	5.5	13	15.0	8.5	8.5	8.50	9.5	29	0.90	100

Tools: see chart page 55

Tubular cable lugs, Cu, standard type



- Ideal cable lug for panel building
- For multi-stranded round shaped conductors e.g. VDE 0295 Class 2
- For pre-rounded multi-stranded sector shaped conductors

Characteristics

- Total cross-section: 6 - 400 mm²
- Annealed material optimises material and crimping properties
- Flat contact surface and precise end machining for easy cable insertion
- Item identification on cable lug
- Acc. to DIN EN 61373 class 1 B approved to vibration

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info

- Also available with inspection hole, part number appendix “ms”
- Now also available in handy plastic boxes for smaller requirements, part number appendix “SB”

Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
6	M5	1R5	3.5	9	10	5.5	6.5	6.50	7.5	21	0.50	100
	M6	1R6	3.5	9	12	6.5	6.5	6.50	7.5	21	0.47	100*
	M8	1R8	3.5	9	15	8.5	6.5	10.00	10.0	23	0.54	100
	M10	1R10	3.5	9	17	10.5	6.5	12.00	12.0	25	0.59	100
	M12	1R12	3.5	9	19	13.0	6.5	13.00	13.0	28	0.63	100
10	M5	2R5	4.5	10	12	5.5	7.0	6.50	7.5	22	0.50	100
	M6	2R6	4.5	10	12	6.5	7.0	6.50	7.5	22	0.49	100
	M8	2R8	4.5	10	15	8.5	7.0	10.00	10.0	25	0.58	100*
	M10	2R10	4.5	10	17	10.5	7.0	12.00	12.0	27	0.62	100
	M12	2R12	4.5	10	19	13.0	7.0	13.00	13.0	29	0.64	100
16	M5	3R5	5.5	13	12	5.5	8.5	5.50	6.5	26	0.84	100
	M6	3R6	5.5	13	12	6.5	8.5	6.25	7.5	27	0.86	100
	M8	3R8	5.5	13	15	8.5	8.5	8.50	9.5	29	0.93	100*
	M10	3R10	5.5	13	17	10.5	8.5	10.50	11.5	31	0.99	100
	M12	3R12	5.5	13	19	13.0	8.5	12.00	13.0	33	1.02	100
25	M5	4R5	7.0	15	14	5.5	10.0	7.50	7.5	30	1.22	25
	M6	4R6	7.0	15	14	6.5	10.0	7.50	7.5	30	1.20	100
	M8	4R8	7.0	15	16	8.5	10.0	10.00	10.0	32	1.31	100*
	M10	4R10	7.0	15	18	10.5	10.0	12.00	12.0	34	1.57	100
	M12	4R12	7.0	15	19	13.0	10.0	13.00	13.0	35	1.39	25
	M14	4R14	7.0	15	21	15.0	10.0	14.50	14.5	38	1.49	25
35	M6	5R6	8.5	17	17	6.5	12.0	7.50	7.5	32	1.85	100
	M8	5R8	8.5	17	17	8.5	12.0	10.00	10.0	34	2.00	100*
	M10	5R10	8.5	17	19	10.5	12.0	12.00	12.0	37	2.13	100
	M12	5R12	8.5	17	21	13.0	12.0	13.00	13.0	38	2.12	100
	M14	5R14	8.5	17	21	15.0	12.0	14.50	14.5	40	2.18	25
	M16	5R16	8.5	17	26	17.0	12.0	16.00	16.0	42	2.24	25
50	M6	6R6	10.0	19	20	6.5	14.0	10.00	10.0	37	3.00	25
	M8	6R8	10.0	19	20	8.5	14.0	10.00	10.0	37	2.93	50
	M10	6R10	10.0	19	20	10.5	14.0	12.00	12.0	39	3.08	50*
	M12	6R12	10.0	19	23	13.0	14.0	13.00	13.0	43	3.23	50

Tubular cable lugs, Cu, standard type

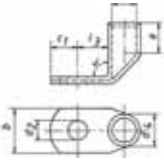
Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
50	M14	**6R14**	10.0	19	23	15.0	14.0	14.50	14.5	45	3.32	25
	M16	**6R16**	10.0	19	28	17.0	14.0	16.00	16.0	46	3.38	25
	M20	**6R20**	10.0	19	30	21.0	14.0	19.00	19.0	48	3.46	25
70	M6	**7R6**	12.0	21	23	6.5	16.5	10.00	10.0	43	4.49	25
	M8	**7R8**	12.0	21	23	8.5	16.5	10.00	10.0	43	4.38	50
	M10	**7R10**	12.0	21	23	10.5	16.5	12.00	12.0	44	4.54	50*
	M12	**7R12**	12.0	21	23	13.0	16.5	13.00	13.0	46	4.63	50
	M14	**7R14**	12.0	21	23	15.0	16.5	14.50	14.5	48	4.76	25
	M16	**7R16**	12.0	21	28	17.0	16.5	16.00	16.0	50	4.24	25
	M20	**7R20**	12.0	21	30	21.0	16.5	19.00	19.0	53	5.09	25
95	M8	**8R8**	13.5	25	26	8.5	18.0	12.00	12.0	48	5.44	25
	M10	**8R10**	13.5	25	26	10.5	18.0	12.00	12.0	48	5.40	50*
	M12	**8R12**	13.5	25	26	13.0	18.0	13.00	13.0	49	5.56	50
	M14	**8R14**	13.5	25	26	15.0	18.0	14.50	14.5	51	5.62	25
	M16	**8R16**	13.5	25	28	17.0	18.0	16.00	16.0	54	5.82	50
	M20	**8R20**	13.5	25	36	21.0	18.0	22.00	22.0	60	6.71	25
120	M8	**9R8**	15.0	26	28	8.5	19.5	14.00	14.0	51	6.72	25
	M10	**9R10**	15.0	26	28	10.5	19.5	14.00	14.0	51	6.57	50
	M12	**9R12**	15.0	26	28	13.0	19.5	14.00	14.0	51	6.38	50*
	M14	**9R14**	15.0	26	28	15.0	19.5	15.00	15.0	52	6.45	25
	M16	**9R16**	15.0	26	30	17.0	19.5	16.00	16.0	54	6.51	50
	M20	**9R20**	15.0	26	36	21.0	19.5	22.00	22.0	63	7.74	25
150	M8	**10R8**	16.5	30	31	8.5	21.0	14.00	14.0	56	7.78	10
	M10	**10R10**	16.5	30	31	10.5	21.0	14.00	14.0	56	7.62	10
	M12	**10R12**	16.5	30	31	13.0	21.0	15.00	15.0	57	7.73	25
	M14	**10R14**	16.5	30	31	15.0	21.0	15.00	15.0	57	7.64	10
	M16	**10R16**	16.5	30	31	17.0	21.0	16.00	16.0	58	7.53	10
	M20	**10R20**	16.5	30	36	21.0	21.0	22.00	22.0	66	8.80	10
185	M10	**11R10**	19.0	30	35	10.5	24.0	18.00	18.0	65	11.75	10
	M12	**11R12**	19.0	30	35	13.0	24.0	18.00	18.0	65	11.82	10
	M14	**11R14**	19.0	30	35	15.0	24.0	18.00	18.0	65	11.39	10
	M16	**11R16**	19.0	30	35	17.0	24.0	18.00	18.0	65	11.24	25
	M20	**11R20**	19.0	30	39	21.0	24.0	22.00	22.0	69	12.00	10
240	M10	**12R10**	21.0	35	39	10.5	26.0	21.50	19.0	72	14.72	10
	M12	**12R12**	21.0	35	39	13.0	26.0	21.50	19.0	72	14.55	10
	M14	**12R14**	21.0	35	39	15.0	26.0	21.50	19.0	72	14.24	10
	M16	**12R16**	21.0	35	39	17.0	26.0	21.50	19.0	72	14.09	25
	M20	**12R20**	21.0	35	39	21.0	26.0	21.50	19.0	72	13.60	10
300	M12	**13R12**	23.5	44	43	13.0	29.5	24.00	24.0	87	23.33	5
	M14	**13R14**	23.5	44	43	15.0	29.5	24.00	24.0	87	23.14	5
	M16	**13R16**	23.5	44	43	17.0	29.5	24.00	24.0	87	22.74	5
	M20	**13R20**	23.5	44	43	21.0	29.5	24.00	24.0	87	22.19	5
400	M12	**14R12**	27.0	44	49	13.0	34.0	24.00	24.0	90	32.41	5
	M14	**14R14**	27.0	44	49	15.0	34.0	24.00	24.0	90	32.24	5
	M16	**14R16**	27.0	44	49	17.0	34.0	24.00	24.0	90	31.98	5
	M20	**14R20**	27.0	44	49	21.0	34.0	24.00	24.0	90	31.41	5

- 10-400 mm² IEC tested
- * = Also available in small handy packs

Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"

- **Tools: see chart page 55**

Angle tubular cable lugs, copper, 90° angled, standard type



- For multi-stranded round shaped conductors e.g. VDE 0295 Class 2
- For pre-rounded multi-stranded sector shaped conductors
- Flat contact surface by special angle punching technology

Characteristics

- Total cross-section: 6 - 400 mm²
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info

- Also available with inspection hole, part number appendix "ms"

Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm d1	a	b	d2	d4	c1	l3	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
6	M5	41R5	3.5	9	10	5.5	6.5	7.5	9	0.59	50
	M6	41R6	3.5	9	12	6.5	6.5	7.5	10	0.58	50
	M8	41R8	3.5	9	14	8.5	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	6.5	7.0	6.5	10	0.57	50
	M8	42R8	4.5	10	15	8.5	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	6.5	8.5	7.5	11	1.01	50
	M8	43R8	5.5	13	15	8.5	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	6.5	10.0	7.5	11	1.32	25
	M8	44R8	7.0	15	16	8.5	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	6.5	12.0	7.5	11	2.05	25
	M8	45R8	8.5	17	17	8.5	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
50	M6	46R6	10.0	19	20	6.5	14.0	10.0	13	3.34	25
	M8	46R8	10.0	19	20	8.5	14.0	10.0	13	3.28	25
	M10	46R10	10.0	19	20	10.5	14.0	12.0	16	3.47	25
	M12	46R12	10.0	19	23	13.0	14.0	13.0	18	3.42	25
	M14	46R14	10.0	19	23	15.0	14.0	14.5	20	3.55	25
	M16	46R16	10.0	19	28	17.0	14.0	16.0	22	3.58	25
	M20	46R20	10.0	19	30	21.0	14.0	19.0	24	3.15	25

Angle tubular cable lugs, copper, 90° angled, standard type

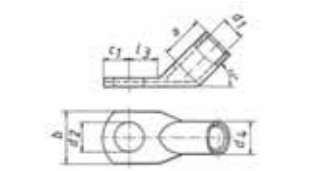
Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/ pcs
			d1	a	b	d2	d4	c1	l3		
70	M6	**47R6**	12.0	21	23	6.5	16.5	10.0	13	4.90	25
	M8	**47R8**	12.0	21	23	8.5	16.5	10.0	14	4.80	25
	M10	**47R10**	12.0	21	23	10.5	16.5	12.0	16	4.88	25
	M12	**47R12**	12.0	21	23	13.0	16.5	13.0	18	4.99	25
	M14	**47R14**	12.0	21	23	15.0	16.5	14.5	20	5.38	25
	M16	**47R16**	12.0	21	28	17.0	16.5	16.0	22	5.35	25
	M20	**47R20**	12.0	21	30	21.0	16.5	19.0	24	5.30	25
95	M8	**48R8**	13.5	25	26	8.5	18.0	12.0	14	5.89	25
	M10	**48R10**	13.5	25	26	10.5	18.0	12.0	17	5.88	25
	M12	**48R12**	13.5	25	26	13.0	18.0	13.0	18	5.93	25
	M14	**48R14**	13.5	25	26	15.0	18.0	14.5	20	6.03	25
	M16	**48R16**	13.5	25	28	17.0	18.0	16.0	22	6.17	25
	M20	**48R20**	13.5	25	36	21.0	18.0	22.0	24	6.42	25
120	M8	**49R8**	15.0	26	28	8.5	19.5	14.0	16	7.26	10
	M10	**49R10**	15.0	26	28	10.5	19.5	14.0	17	7.30	10
	M12	**49R12**	15.0	26	28	13.0	19.5	14.0	18	7.19	10
	M14	**49R14**	15.0	26	28	15.0	19.5	15.0	20	7.30	10
	M16	**49R16**	15.0	26	30	17.0	19.5	16.0	22	7.35	10
	M20	**49R20**	15.0	26	36	21.0	19.5	22.0	24	7.60	10
150	M8	**50R8**	16.5	30	31	8.5	21.0	14.0	16	8.41	10
	M10	**50R10**	16.5	30	31	10.5	21.0	14.0	17	8.27	10
	M12	**50R12**	16.5	30	31	13.0	21.0	15.0	18	8.34	10
	M14	**50R14**	16.5	30	31	15.0	21.0	15.0	20	8.52	10
	M16	**50R16**	16.5	30	31	17.0	21.0	16.0	22	8.62	10
	M20	**50R20**	16.5	30	36	21.0	21.0	22.0	24	9.10	10
185	M10	**51R10**	19.0	30	35	10.5	24.0	18.0	22	12.17	10
	M12	**51R12**	19.0	30	35	13.0	24.0	18.0	22	11.97	10
	M14	**51R14**	19.0	30	35	15.0	24.0	18.0	22	11.77	10
	M16	**51R16**	19.0	30	35	17.0	24.0	18.0	22	11.53	10
	M20	**51R20**	19.0	30	39	21.0	24.0	22.0	24	12.00	10
240	M10	**52R10**	21.0	35	39	10.5	26.0	21.5	22	15.60	10
	M12	**52R12**	21.0	35	39	13.0	26.0	21.5	22	15.60	10
	M14	**52R14**	21.0	35	39	15.0	26.0	21.5	22	15.41	10
	M16	**52R16**	21.0	35	39	17.0	26.0	21.5	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

▸ 10-400 mm² IEC tested

ⓘ Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu

▸ **Tools: see chart page 55**

Angle tubular cable lugs, copper, 45° angled, standard type



- For multi-stranded round shaped conductors e.g. VDE 0295 Class 2
- For pre-rounded multi-stranded sector shaped conductors
- Flat contact surface by special angle punching technology

Characteristics

- Total cross-section: 6 - 400 mm²
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info

- Also available with inspection hole, part number appendix "ms"

Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm d1	a	b	d2	d4	c1	l3	Weight/ 100 pcs. ~ kg	Packing unit/pcs
6	M5	41R545	3.5	9	10	5.5	6.5	7.5	9	0.60	50
	M6	41R645	3.5	9	12	6.5	6.5	7.5	10	0.58	50
	M8	41R845	3.5	9	14	8.5	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	6.5	7.0	6.5	10	0.57	50
	M8	42R845	4.5	10	15	8.5	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	6.5	8.5	7.5	11	1.06	50
	M8	43R845	5.5	13	15	8.5	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	6.5	10.0	7.5	11	1.32	25
	M8	44R845	7.0	15	16	8.5	10.0	10.0	13	1.44	25
	M10	44R1045	7.0	15	18	10.5	10.0	12.0	15	1.49	25
	M12	44R1245	7.0	15	19	13.0	10.0	13.0	18	1.44	25
	M14	44R1445	7.0	15	21	15.0	10.0	14.5	20	1.55	25
35	M6	45R645	8.5	17	17	6.5	12.0	7.5	11	2.05	25
	M8	45R845	8.5	17	17	8.5	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
	M14	45R1445	8.5	17	21	15.0	12.0	14.5	20	2.41	25
	M16	45R1645	8.5	17	26	17.0	12.0	16.0	22	2.40	25
50	M6	46R645	10.0	19	20	6.5	14.0	10.0	13	3.43	25
	M8	46R845	10.0	19	20	8.5	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
	M14	46R1445	10.0	19	23	15.0	14.0	14.5	20	3.65	25
	M16	46R1645	10.0	19	28	17.0	14.0	16.0	22	3.76	25

Angle tubular cable lugs, copper, 45° angled, standard type

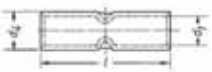
Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	l3		
50	M20	**46R2045**	10.0	19	30	21.0	14.0	19.0	24	3.30	25
70	M6	**47R645**	12.0	21	23	6.5	16.5	10.0	13	5.06	25
	M8	**47R845**	12.0	21	23	8.5	16.5	10.0	14	5.06	25
	M10	**47R1045**	12.0	21	23	10.5	16.5	12.0	16	5.25	25
	M12	**47R1245**	12.0	21	23	13.0	16.5	13.0	18	5.30	25
	M14	**47R1445**	12.0	21	23	15.0	16.5	14.5	20	5.60	25
	M16	**47R1645**	12.0	21	28	17.0	16.5	16.0	22	5.61	25
	M20	**47R2045**	12.0	21	30	21.0	16.5	19.0	24	5.60	25
95	M8	**48R845**	13.5	25	26	8.5	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
	M14	**48R1445**	13.5	25	26	15.0	18.0	14.5	20	6.60	25
	M16	**48R1645**	13.5	25	28	17.0	18.0	16.0	22	6.78	25
	M20	**48R2045**	13.5	25	36	21.0	18.0	22.0	24	6.80	25
120	M8	**49R845**	15.0	26	28	8.5	19.5	14.0	16	7.92	10
	M10	**49R1045**	15.0	26	28	10.5	19.5	14.0	17	7.99	10
	M12	**49R1245**	15.0	26	28	13.0	19.5	14.0	18	7.96	10
	M14	**49R1445**	15.0	26	28	15.0	19.5	15.0	20	7.94	10
	M16	**49R1645**	15.0	26	30	17.0	19.5	16.0	22	8.26	10
	M20	**49R2045**	15.0	26	36	21.0	19.5	22.0	24	8.20	10
150	M8	**50R845**	16.5	30	31	8.5	21.0	14.0	16	9.00	10
	M10	**50R1045**	16.5	30	31	10.5	21.0	14.0	17	9.15	10
	M12	**50R1245**	16.5	30	31	13.0	21.0	15.0	18	8.75	10
	M14	**50R1445**	16.5	30	31	15.0	21.0	15.0	20	9.20	10
	M16	**50R1645**	16.5	30	31	17.0	21.0	16.0	22	9.22	10
	M20	**50R2045**	16.5	30	36	21.0	21.0	22.0	24	9.26	10
185	M10	**51R1045**	19.0	30	35	10.5	24.0	18.0	22	13.30	10
	M12	**51R1245**	19.0	30	35	13.0	24.0	18.0	22	13.32	10
	M14	**51R1445**	19.0	30	35	15.0	24.0	18.0	22	13.40	10
	M16	**51R1645**	19.0	30	35	17.0	24.0	18.0	22	12.80	10
	M20	**51R2045**	19.0	30	39	21.0	24.0	22.0	24	13.10	10
240	M10	**52R1045**	21.0	35	39	10.5	26.0	21.5	22	16.28	10
	M12	**52R1245**	21.0	35	39	13.0	26.0	21.5	22	16.80	10
	M14	**52R1445**	21.0	35	39	15.0	26.0	21.5	22	16.40	10
	M16	**52R1645**	21.0	35	39	17.0	26.0	21.5	22	16.10	10
	M20	**52R2045**	21.0	35	39	21.0	26.0	21.5	24	16.10	10
300	M12	**53R1245**	23.5	44	43	13.0	29.5	24.0	24	24.08	5
	M14	**53R1445**	23.5	44	43	15.0	29.5	24.0	24	24.20	5
	M16	**53R1645**	23.5	44	43	17.0	29.5	24.0	24	23.23	5
	M20	**53R2045**	23.5	44	43	21.0	29.5	24.0	24	23.50	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
	M20	**54R2045**	27.0	44	49	21.0	34.0	24.0	24	31.80	5

▸ 10-400 mm² IEC tested

ⓘ Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"

▸ **Tools: see chart page 55**

Butt connectors, Cu, standard type



- For multi-stranded conductors e.g. VDE 0295 Class 2
- For pre-rounded multi-stranded sector shaped conductors
- Precise end machining for easy cable insertion

Characteristics

- Total cross-section: 0.75 - 400 mm²
- With buttmarks for precise cable insertion
- Annealed material optimises material and crimping properties

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info

- Also available without buttmarks, part number appendix “om”
- Now also available in handy plastic boxes for smaller requirements, part number appendix “SB”

Nominal cross section mm²	Part No.	Dimension mm d1	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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

- 10-400 mm² IEC tested
- * = Also available in small handy packs

Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"

Tools: see chart page 55

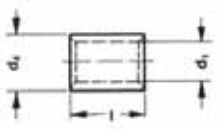
Parallel connectors, Cu, standard type

- Ideal for connecting differing cable cross-sections
- Precise end machining for easy cable insertion

Characteristics
- Total cross-section: 1.5 - 300 mm²
- Annealed material optimises material and crimping properties

Material
- Copper acc. to EN 13600

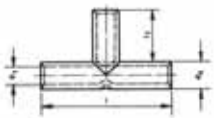
Surface
- Tin-plated to protect against corrosion (other surfaces available upon request)



Nominal cross section mm²	Part No.	Dimension mm d1	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
1.5	**148R**	1.8	3.3	5	0.03	100
2.5	**149R**	2.3	4.2	5	0.04	100
4	**150R**	3.0	5.0	7	0.08	100
6	**151R**	4.0	6.0	7	0.09	100
10	**152R**	4.5	7.0	9	0.17	100
16	**153R**	5.5	8.5	10	0.28	100
25	**154R**	7.0	10.0	13	0.44	100
35	**155R**	8.5	12.0	16	0.78	100
50	**156R**	10.0	14.0	19	1.22	100
70	**157R**	12.0	16.5	19	1.62	50
95	**158R**	13.5	18.0	20	1.90	50
120	**159R**	15.0	19.5	22	2.28	50
150	**160R**	16.5	21.0	26	3.00	50
185	**161R**	19.0	24.0	30	4.37	50
240	**162R**	21.0	26.0	32	5.30	25
300	**163R**	23.5	29.5	36	8.05	25

- The specified nominal cross section is in accordance with the total cross section of the cable.
- **Tools: see chart page 55**

T-connectors, Cu, standard type



- For multi-stranded conductors e.g. VDE 0295 Class 2
- For pre-rounded multi-stranded sector shaped conductors
- Special version for cable tap conductors

Characteristics

- Total cross-section: 1.5 - 240 mm²
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

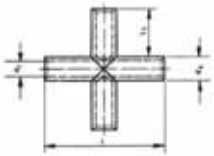
Nominal cross section mm²	Part No.	Dimension mm d1	d4	l	l1	Weight/ 100 pcs. ~ kg	Packing unit/pcs
1.5	**TV15**	1.8	3.3	30	12	0.23	50
2.5	**TV2.5**	2.3	4.2	30	12	0.37	50
4	**TV4**	3.0	5.0	30	12	0.45	50
6	**TV6**	4.0	6.0	35	14	0.73	50
10	**TV10**	4.5	7.0	35	14	1.05	50
16	**TV16**	5.5	8.5	50	21	2.20	50
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

Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"

Tools: see chart page 55

Cross-connectors, Cu, standard type

- For multi-stranded conductors e.g. VDE 0295 Class 2
- For pre-rounded multi-stranded sector shaped conductors
- Version for double cable tap conductors



Characteristics

- Total cross-section: 1.5 - 240 mm²
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

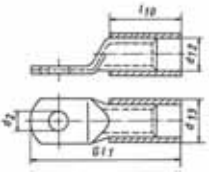
- Tin-plated to protect against corrosion (other surfaces available upon request)

Nominal cross section mm²	Part No.	Dimension mm d1	d4	l	l1	Weight/ 100 pcs. ~ kg	Packing unit/pcs
1.5	**KV15**	1.8	3.3	30	12	0.320	25
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
25	**KV25**	7.0	10.0	55	23	4.000	15
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
150	**KV150**	16.5	21.0	110	44	24.100	5
185	**KV185**	19.0	24.0	115	45	32.100	5
240	**KV240**	21.0	26.0	130	52	41.100	5

Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"

Tools: see chart page 55

Insulated tubular cable lugs, Cu, standard type



- For multi-stranded conductors e.g. VDE 0295 Class 2
- For pre-rounded multi-stranded sector shaped conductors
- No additional insulation of the crimped connection required

Characteristics

- Total cross-section: 10 - 150 mm²
- Is directly crimped with the insulation
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion
- Heat resistant to 105° C

Material

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

Surface

- Tin-plated

Order info

- Also available with inspection hole, part number appendix "ms"

Nominal cross section mm²	Size of bolt dia.	Part No.	Colour	Dimension mm					Weight 100 pcs. ~kg		Packing unit/ pcs
				d12	d13	d2	Gl1	l10	Cu	Total	
10	M5	602R5		7.0	9.0	5.5	35.5	17.0	0.50	0.548	25
	M6	602R6		7.0	9.0	6.5	35.5	17.0	0.49	0.538	25
	M8	602R8		7.0	9.0	8.5	42.0	17.0	0.58	0.628	25
	M10	602R10		7.0	9.0	10.5	46.0	17.0	0.62	0.668	25
	M12	602R12		7.0	9.0	13.0	49.0	17.0	0.64	0.688	25
16	M5	603R5		8.5	10.5	5.5	39.5	21.0	0.84	0.907	25
	M6	603R6		8.5	10.5	6.5	41.3	21.0	0.86	0.927	25
	M8	603R8		8.5	10.5	8.5	45.5	21.0	0.93	0.997	25
	M10	603R10		8.5	10.5	10.5	49.5	21.0	0.99	1.057	25
	M12	603R12		8.5	10.5	13.0	54.0	21.0	1.02	1.087	25
25	M5	604R5		10.0	12.0	5.5	45.0	24.0	1.22	1.312	25
	M6	604R6		10.0	12.0	6.5	46.5	24.0	1.20	1.292	25
	M8	604R8		10.0	12.0	8.5	51.0	24.0	1.31	1.402	25
	M10	604R10		10.0	12.0	10.5	55.0	24.0	1.57	1.662	25
	M12	604R12		10.0	12.0	13.0	57.0	24.0	1.39	1.482	25
	M14	604R14		10.0	12.0	15.0	61.5	24.0	1.49	1.582	25
35	M6	605R6		12.0	14.5	6.5	49.5	27.0	1.85	2.010	25
	M8	605R8		12.0	14.5	8.5	54.0	27.0	2.00	2.160	25
	M10	605R10		12.0	14.5	10.5	59.0	27.0	2.13	2.290	25
	M12	605R12		12.0	14.5	13.0	61.0	27.0	2.12	2.280	25
	M14	605R14		12.0	14.5	15.0	64.5	27.0	2.18	2.340	25
	M16	605R16		12.0	14.5	17.0	68.0	27.0	2.24	2.400	25
50	M6	606R6		14.0	16.5	6.5	59.0	32.0	3.00	3.220	25
	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

Insulated tubular cable lugs, Cu, standard type

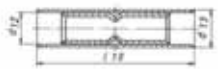
Nominal cross section mm²	Size of bolt dia.	Part No.	Colour	Dimension mm d12	d13	d2	Gl1	l10	Weight 100 pcs. ~kg Cu	Total	Packing unit/ pcs
70	M6	**607R6**		16.4	18.9	6.5	65.5	33.5	4.49	4.760	25
	M8	**607R8**		16.4	18.9	8.5	65.5	33.5	4.38	4.650	25
	M10	**607R10**		16.4	18.9	10.5	66.5	33.5	4.54	4.810	25
	M12	**607R12**		16.4	18.9	13.0	70.5	33.5	4.63	4.900	25
	M14	**607R14**		16.4	18.9	15.0	73.5	33.5	4.76	5.030	25
	M16	**607R16**		16.4	18.9	17.0	78.5	33.5	4.24	4.510	25
	M20	**607R20**		16.4	18.9	21.0	84.5	33.5	5.09	5.360	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
	M14	**608R14**		17.8	20.8	15.0	79.5	40.0	5.62	6.03	25
	M16	**608R16**		17.8	20.8	17.0	84.0	40.0	5.82	6.23	25
	M20	**608R20**		17.8	20.8	21.0	96.0	40.0	6.71	7.12	25
120	M8	**609R8**		19.3	22.3	8.5	80.5	41.5	6.72	7.18	10
	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
	M14	**609R14**		19.3	22.3	15.0	82.5	41.5	6.45	6.91	10
	M16	**609R16**		19.3	22.3	17.0	85.5	41.5	6.51	6.97	10
	M20	**609R20**		19.3	22.3	21.0	100.5	41.5	7.74	8.20	10
150	M8	**610R8**		20.8	23.8	8.5	88.0	48.0	7.78	8.36	10
	M10	**610R10**		20.8	23.8	10.5	88.0	48.0	7.62	8.20	10
	M12	**610R12**		20.8	23.8	13.0	89.0	48.0	7.73	8.31	10
	M14	**610R14**		20.8	23.8	15.0	90.0	48.0	7.64	8.22	10
	M16	**610R16**		20.8	23.8	17.0	92.0	48.0	7.53	8.11	10
	M20	**610R20**		20.8	23.8	21.0	106.0	48.0	8.80	9.38	10

Dimensions of tubular cable lugs can be found on page 34 and onwards

Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"

Tools: see chart page 57

Insulated butt connectors, Cu, standard type



- For multi-stranded conductors e.g. VDE 0295 Class 2
- For pre-rounded multi-stranded sector shaped conductors
- No additional insulation of the crimped connection required
- Is directly crimped with the insulation

Characteristics

- Total cross-section: 10 - 150 mm²
- With buttmarks for precise cable insertion
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion
- Heat resistant to 105° C

Material

- Connector: copper acc. to EN 13600
- Insulation sleeve: PA, halogen-free

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Nominal cross section mm²	Part No.	Colour	Dimension mm			Weight 100 pcs. ~kg		Packing unit/pcs
			d12	d13	l10	Cu	Total	
10	**622R**		7.0	9.0	42	0.72	0.84	25
16	**623R**		8.5	10.5	50	1.00	1.16	25
25	**624R**		10.0	12.0	57	1.41	1.63	25
35	**625R**		12.0	14.4	65	2.24	2.60	25
50	**626R**		14.0	16.4	72	3.36	3.81	25
70	**627R**		16.4	19.0	80	4.87	5.46	25
95	**628R**		17.8	20.8	87	5.91	6.74	25
120	**629R**		19.3	22.3	94	7.00	7.96	10
150	**630R**		20.8	23.8	103	8.12	9.32	10

Dimensions of butt connectors can be found on page 40
Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"
Tools: see chart page 57

Tubular cable lugs, Cu, F-series

- For fine stranded conductors, DIN EN 60228 (e.g. VDE 0295 Class 5 and 6)
- Tube dimensions suitable for fine stranded conductors
- Precise end machining and easy entry for cable insertion

Characteristics

- Total cross-section: 10 - 300 mm²
- Annealed material optimises material and crimping properties
- Acc. to DIN EN 61373 class 1 B approved to vibration

Material

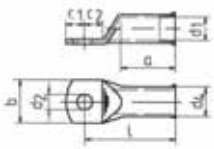
- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info

- Also available with inspection hole, part number appendix "ms"



Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
	M5	**702F5**	5.5	14	12	5.3	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
10	M8	**702F8**	5.5	14	16	8.5	8.0	8.50	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
	M5	**703F5**	6.6	15	13	5.3	9.5	6.25	7.5	30	1.10	100
	M6	**703F6**	6.6	15	13	6.5	9.5	6.25	7.5	30	1.07	100
16	M8	**703F8**	6.6	15	16	8.5	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
	M5	**704F5**	7.9	17	15	5.3	11.0	7.50	7.5	32	1.52	25
	M6	**704F6**	7.9	17	15	6.5	11.0	7.50	7.5	32	1.50	100
25	M8	**704F8**	7.9	17	17	8.5	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
	M6	**705F6**	9.2	19	17	6.5	12.5	7.50	7.5	35	1.91	100
	M8	**705F8**	9.2	19	18	8.5	12.5	10.00	10.0	37	2.08	100
35	M10	**705F10**	9.2	19	18	10.5	12.5	12.00	12.0	40	2.24	100
	M12	**705F12**	9.2	19	19	13.0	12.5	13.00	13.0	41	2.22	25
	M14	**705F14**	9.2	19	21	15.0	12.5	14.50	14.5	43	2.41	25
	M6	**706F6**	11.0	21	21	6.5	15.0	10.00	10.0	41	3.54	25
	M8	**706F8**	11.0	21	21	8.5	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
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
	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
70	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	52	4.87	25
	M16	**707F16**	13.0	25	25	17.0	17.0	16.00	16.0	54	5.85	25
	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
95	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

Tubular cable lugs, Cu, F-series

Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm d1	a	b	d2	d4	c1	c2	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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	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	41	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

▸ **Tools: see chart page 58**

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

- For fine stranded conductors, DIN EN 60228 (e.g. VDE 0295 Class 5 and 6)
- Precise end machining and easy entry for cable insertion
- Flat contact surface by special angle punching technology

Characteristics

- Total cross-section: 10 - 240 mm²
- Annealed material optimises material and crimping properties
- Tube dimensions suitable for fine stranded conductors

Material

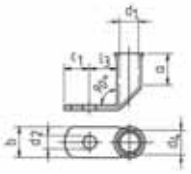
- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info

- 45° angle version also available, part number appendix "45"
- Also available with inspection hole, part number appendix "ms"



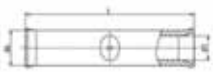
Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm d1	a	b	d2	d4	c1	min. for l3	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
10	M5	742F5	5.5	14	12	5.3	8.0	6.25	7.5	0.80	50
	M6	742F6	5.5	14	12	6.5	8.0	6.25	7.5	0.78	50
	M8	742F8	5.5	14	16	8.5	8.0	9.00	9.5	0.84	50
	M10	742F10	5.5	14	16	10.5	8.0	10.50	12.0	0.88	50
	M12	742F12	5.5	14	19	13.0	8.0	12.00	13.0	0.90	50
16	M5	743F5	6.6	15	13	5.3	9.5	6.25	7.5	1.12	50
	M6	743F6	6.6	15	13	6.5	9.5	6.25	7.5	1.12	50
	M8	743F8	6.6	15	16	8.5	9.5	10.00	10.0	1.30	50
	M10	743F10	6.6	15	17	10.5	9.5	12.00	12.0	1.38	50
	M12	743F12	6.6	15	19	13.0	9.5	13.00	13.0	1.34	50
25	M5	744F5	7.9	17	15	5.3	11.0	7.50	7.5	1.52	25
	M6	744F6	7.9	17	15	6.5	11.0	7.50	7.5	1.54	25
	M8	744F8	7.9	17	17	8.5	11.0	10.00	10.0	1.80	25
	M10	744F10	7.9	17	17	10.5	11.0	12.00	12.0	1.79	25
	M12	744F12	7.9	17	19	13.0	11.0	13.00	13.0	1.76	25
35	M6	745F6	9.2	19	17	6.5	12.5	7.50	7.5	2.02	25
	M8	745F8	9.2	19	18	8.5	12.5	10.00	10.0	2.18	25
	M10	745F10	9.2	19	18	10.5	12.5	12.00	12.0	2.30	25
	M12	745F12	9.2	19	19	13.0	12.5	13.00	13.0	2.26	25
	M14	745F14	9.2	19	21	15.0	12.5	14.50	14.5	2.65	25
50	M6	746F6	11.0	21	21	6.5	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	12.0	3.83	25
	M12	746F12	11.0	21	21	13.0	15.0	13.00	13.0	3.74	25
	M14	746F14	11.0	21	23	15.0	15.0	14.50	14.5	4.20	25
	M16	746F16	11.0	21	28	17.0	15.0	16.00	16.0	4.35	25
70	M8	747F8	13.0	25	25	8.5	17.0	10.00	10.0	4.83	25
	M10	747F10	13.0	25	25	11.0	17.0	12.00	12.0	5.18	25
	M12	747F12	13.0	25	25	13.0	17.0	13.00	13.0	5.16	25
	M14	747F14	13.0	25	25	15.0	17.0	14.50	14.5	5.38	25
	M16	747F16	13.0	25	25	17.0	17.0	16.00	16.0	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	11.0	19.0	12.00	12.0	6.04	25
	M12	748F12	14.5	26	28	13.0	19.0	13.00	13.0	6.58	25
	M14	748F14	14.5	26	28	15.0	19.0	14.50	14.5	7.24	25
	M16	748F16	14.5	26	28	17.0	19.0	16.00	16.0	7.34	25

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

Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm d1	a	b	d2	d4	c1	min. for l3	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
120	M10	**749F10**	16.2	30	30	11.0	21.0	14.00	14.0	8.76	10
	M12	**749F12**	16.2	30	30	13.0	21.0	15.00	15.0	8.76	10
	M14	**749F14**	16.2	30	30	15.0	21.0	15.00	15.0	9.15	10
	M16	**749F16**	16.2	30	30	17.0	21.0	16.00	16.0	8.54	10
	M20	**749F20**	16.2	30	36	21.0	21.0	22.00	22.0	9.60	10
150	M10	**750F10**	18.0	32	34	11.0	23.0	15.00	16.0	11.54	10
	M12	**750F12**	18.0	32	34	13.0	23.0	16.00	18.0	11.58	10
	M14	**750F14**	18.0	32	34	15.0	23.0	18.00	19.0	11.90	10
	M16	**750F16**	18.0	32	34	17.0	23.0	19.00	20.0	11.80	10
	M20	**750F20**	18.0	32	40	21.0	23.0	21.00	22.0	12.00	10
185	M12	**751F12**	20.6	35	39	13.0	26.0	21.50	19.0	16.36	10
	M14	**751F14**	20.6	35	39	15.0	26.0	21.50	19.0	16.20	10
	M16	**751F16**	20.6	35	39	17.0	26.0	21.50	19.0	15.36	10
	M20	**751F20**	20.6	35	39	21.0	26.0	21.50	19.0	15.80	10
240	M16	**752F16**	23.1	44	41	17.0	28.0	19.00	20.0	17.80	5

▸ **Tools: see chart page 58**

Butt connectors, Cu, F-series



- **For fine stranded conductors, DIN EN 60228 (e.g. VDE 0295 Class 5 and 6)**
- **Precise end machining and easy entry for cable insertion**

Characteristics

- Total cross-section: 10 - 185 mm²
- With buttmarks for precise cable insertion
- Annealed material optimises material and crimping properties
- Tube dimensions suitable for fine stranded conductors

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Nominal cross section mm²	Part No.	Dimension mm d1	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
10	**722F**	5.5	8.0	38	0.90	100
16	**723F**	6.6	9.5	38	1.25	100
25	**724F**	7.9	11.0	38	1.56	50
35	**725F**	9.2	12.5	45	2.19	50
50	**726F**	11.0	15.0	45	3.37	50
70	**727F**	13.0	17.0	54	4.65	50
95	**728F**	14.5	19.0	56	6.05	25
120	**729F**	16.2	21.0	60	7.58	25
150	**730F**	18.0	23.0	68	9.83	10
185	**731F**	20.6	26.0	75	13.30	10

▸ **Tools: see chart page 58**

Tubular cable lugs, Cu, for solid conductors

For solid conductors e.g. VDE 0295 Class 1

Characteristics

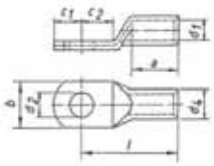
- Total cross-section: 6 - 50 mm²
- Annealed material optimises material and crimping properties
- Flat contact surface by special punching technology
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)



Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
6	M5	**SR65**	3.0	8	9.0	5.3	5	4.75	6.0	17.0	0.213	25
	M6	**SR66**	3.0	8	10.0	6.5	5	6.50	6.5	19.0	0.220	25
10	M6	**SR106**	4.0	9	10.0	6.5	6	7.00	6.5	19.0	0.300	25
	M8	**SR108**	4.0	9	14.0	8.5	6	8.50	9.5	22.0	0.320	25
16	M6	**SR166**	5.0	12	12.5	6.5	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	M6	**SR356**	7.0	15	14.0	6.5	10	7.50	7.5	30.0	1.200	25
	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	8.5	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

Tools: see chart page 60

Butt connectors, Cu, for solid conductors

- For solid conductors e.g. VDE 0295 Class 1
- Tube dimensions suitable for solid conductors

Characteristics
- Total cross-section: 1.5 - 50 mm²
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

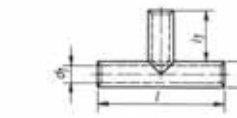
Material
- Copper acc. to EN 13600

Surface
- Tin-plated to protect against corrosion (other surfaces available upon request)

Nominal cross section mm²	Part No.	Dimension mm d1	d4	l	Wire dia. mm	Weight/ 100 pcs. ~ kg	Packing unit/pcs
1.5-2.5	**SV1525**	1.9	3.9	25	1.38/1.78	0.210	100
4	**SV4**	2.4	4.4	25	2.25	0.240	100
6	**SV6**	3.0	5.0	25	2.75	0.275	100
10	**SV10**	4.0	6.0	25	3.55	0.350	100
16	**SV16**	5.0	8.0	35	4.5	0.960	100
25	**SV25**	6.2	10.0	40	5.65	1.700	50
35	**SV35**	7.0	10.0	40	6.7	1.420	50
50	**SV50**	8.5	12.0	70	8	3.550	50

Tools: see chart page 60

T-connectors, Cu, for solid conductors



- For solid conductors e.g. VDE 0295 Class 1
- Special version for cable tap conductors

Characteristics
- Total cross-section: 1.5 - 50 mm²
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material
- Copper acc. to EN 13600

Surface
- Tin-plated to protect against corrosion (other surfaces available upon request)

Nominal cross section mm²	Part No.	Dimension mm d1	d4	l	l1	Wire dia. mm	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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

Tools: see chart page 60

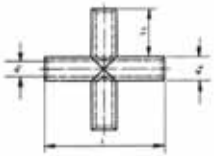
Cross connectors, Cu, for solid conductors

- For solid conductors e.g. VDE 0295 Class 1
- Special version for double cable tap conductors

Characteristics
- Total cross-section: 1.5 - 50 mm²
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material
- Copper acc. to EN 13600

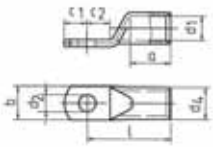
Surface
- Tin-plated to protect against corrosion (other surfaces available upon request)



Nominal cross section mm²	Part No.	Dimension mm d1	d4	l	l1	Wire Ø mm	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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
10	**SKV10**	4.0	6.0	35	14	3.55	0.92	25
16	**SKV16**	5.0	8.0	35	14	4.5	1.86	25
25	**SKV25**	6.2	10.0	50	21	5.65	4.20	15
35	**SKV35**	7.0	10.0	55	23	6.7	3.80	15
50	**SKV50**	8.5	12.0	76	32	8	7.35	15

Tools: see chart page 60

Tubular cable lugs for switch gear connections, standard type



- For multi-stranded conductors e.g. VDE 0295 Class 2
- For pre-rounded multi-stranded sector shaped conductors
- For assembly in switch cabinets with reduced connecting space
- Narrow version owed to new manufacturing processes without material loss

Characteristics

- Total cross-section: 35 - 300 mm²
- Annealed material optimises material and crimping properties
- Flat contact surface by special punching technology
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

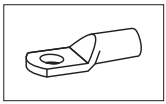
Order info

- Also available with inspection hole, part number appendix "ms"

Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
			d1	a	b	d2	d4	c1	c2	l		
35	M6	5SG6	8.5	17	15.0	6.5	12.0	7.5	7.5	32	1.78	25
50	M6	6SG6	10.0	19	15.0	6.5	14.0	10.0	10.0	37	2.95	25
	M8	6SG8	10.0	19	17.0	8.5	14.0	10.0	10.0	37	2.82	25
	M10	6SG10	10.0	19	19.0	10.5	14.0	11.5	12.0	39	3.08	25
70	M6	7SG6	12.0	21	17.0	6.5	16.5	10.0	10.0	43	4.22	25
	M8	7SG8	12.0	21	17.0	8.5	16.5	10.0	10.0	43	4.10	25
	M10	7SG10	12.0	21	19.0	10.5	16.5	11.5	12.0	44	4.45	25
	M12	7SG12	12.0	21	19.0	13.0	16.5	13.0	13.0	46	4.22	25
95	M6	8SG6	13.5	25	19.0	6.5	18.0	11.5	12.0	48	5.49	25
	M8	8SG8	13.5	25	19.0	8.5	18.0	11.5	12.0	48	5.46	25
	M10	8SG10	13.5	25	19.0	10.5	18.0	11.5	12.0	48	5.13	25
	M12	8SG12	13.5	25	19.0	13.0	18.0	13.0	13.0	49	5.15	25
120	M6	9SG6	15.0	26	19.0	6.5	19.5	11.5	14.0	51	6.16	10
	M8	9SG8	15.0	26	19.0	8.5	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	30.0	11.5	24.0	87	19.70	5
	M12	13SG12	23.5	44	31.0	13.0	30.0	24.0	24.0	87	22.72	5
	M16	13SG16	23.5	44	31.0	17.0	30.0	24.0	24.0	87	22.50	5

Tools: see chart page 55

Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"



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

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
0.5-6	K13		•							240
0.75-2.5	KP1	+KP232		•						256
	KP1L	+KP232		•						256
	EKP1	+KP232				•				312
	TEKP1	+KP232		•						281
	KPM15	+KP232		•						282
0.75-10	K50			•						259
	EK50ML			•						278
	EK1550					•				308
	EK1550G					•				310
0.75-16	K2		•							241
1-4	K511		•							252
4-10	KP1	+KP242		•						256
	KP1L	+KP242		•						256
	EKP1	+KP242				•				312
	TEKP1	+KP242		•						281
	KPM15	+KP242		•						282
6-50	K5		•							243
	K05		•							247
6+10	K512		•							252
6-150	K354			•						260
	EK354					•				314
	EK354L					•				316
6-185	K18			•						262
	HK6018				•					286
	EK5018L					•				320
	PK18							•		362
	THK18						•			362
	HK60UNV	+ UA18			•					354
	EK60UNVL	+ UA18				•				357
	EKM60UNVL	+ UA18				•				356
	PK60UNV	+ UA18						•		355
6-240	EK505L					•				318

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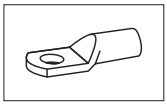
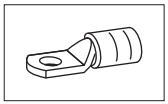


Tool application chart

Tubular cable lugs, butt connectors, parallel connectors and T-connectors "standard type" and tubular cable lugs for switchgear connections made from Cu

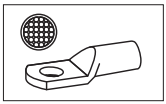
Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
6-300	K22			•						264
	HK6022				•					288
	EK6022L					•				324
	EKM6022L					•				322
	PK22							•		364
	THK22						•			364
	HK60UNV	+ UA22			•					354
	EK60UNVL	+ UA22				•				357
	EKM60UNVL	+ UA22				•				356
	PK60UNV	+ UA22						•		355
10-25	K04		•							246
10-120	K06		•							249
10-240	HK60VP				•					290
	EK60VPL					•				326
	EKM60IDL					•				328
	PK60VP							•		366
16-95	K08		•							248
	K95		•							242
	TK95		•							243
16-300	HK60VPFT				•					291
	EK60VPFTL					•				327
	PK60VPFT							•		367
16-400	HK12030				•					292
	HK12042				•					294
	HK120U				•					296
	EK12030L					•				330
	EK12042L					•				332
	EK120UL					•				334
	EK120UNVL					•				358
	HK122EL380						•			390
	PK12042							•		368
	PK120U							•		370
	HK252						•			388
	HK252EL380						•			391
	PK252							•		372
25-150	K09		•							251
35-95	K8		•							245
50-120	K6		•							244
120-240	K7		•							245
185-400	K07		•							244



Tool application chart

Insulated tubular cable lugs and butt connectors "standard type"

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
10-70	K354			•					⬭	260
	EK354					•			⬭	314
	EK354L					•			⬭	316
10-95	K18			•					⬭	262
	HK6018				•				⬭	286
	EK5018L					•			⬭	320
	EK505L					•			⬭	318
	PK18							•	⬭	362
	THK18						•		⬭	362
	HK60UNV	+ UA18			•				⬭	354
	EK60UNVL	+ UA18				•			⬭	357
	EKM60UNVL	+ UA18				•			⬭	356
	PK60UNV	+ UA18						•	⬭	355
10-150	K22			•					⬭	264
	HK6022				•				⬭	288
	EK6022L					•			⬭	324
	EKM6022L					•			⬭	322
	PK22							•	⬭	364
	THK22						•		⬭	364
	HK60UNV	+ UA22			•				⬭	354
	EK60UNVL	+ UA22				•			⬭	357
	EKM60UNVL	+ UA22				•			⬭	356
	PK60UNV	+ UA22						•	⬭	355
	HK12030				•				⬭	292
	HK12042				•				⬭	294
	HK120U				•				⬭	296
	EK12030L					•			⬭	330
	EK12042L					•			⬭	332
	EK120UL					•			⬭	334
	EK120UNVL					•			⬭	358
	HK122EL380						•		⬭	390
	PK12042							•	⬭	368
	PK120U							•	⬭	370
	HK252						•		⬭	388
	HK252EL380						•		⬭	391
	PK252							•	⬭	372



Tool application chart

Tubular cable lugs and butt connectors for fine stranded conductors

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
10-35	K354			•						260
10-50	EK354					•				314
	EK354L					•				316
	K5		•							243
	K18			•						262
	HK6018				•					286
	EK505L					•				318
	EK5018L					•				320
	PK18							•		362
	THK18						•			362
	HK60UNV	+ UA18			•					354
	EK60UNVL	+ UA18				•				357
	EKM60UNVL	+ UA18				•				356
	PK60UNV	+ UA18						•		355
10-70	K22			•						264
	HK6022				•					288
	EK6022L					•				324
	EKM6022L					•				322
	PK22							•		364
	THK22						•			364
	HK60UNV	+ UA22			•					354
	EK60UNVL	+ UA22				•				357
	EKM60UNVL	+ UA22				•				356
	PK60UNV	+ UA22						•		355
10-240	HK60VP				•					290
	EK60VPL					•				326
	EKM60IDL					•				328
	PK60VP							•		366
16-95	K95		•							242
	TK95		•							243
16-150	HK12030				•					292
	HK12042				•					294
	HK120U				•					296
	EK12030L					•				330
	EK12042L					•				332
	EK120UL					•				334
	EK120UNVL					•				358
	PK12042							•		368
	PK120U							•		370

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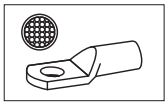
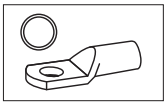


Tool application chart

Tubular cable lugs and butt connectors for fine stranded conductors

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type							
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads	Crimp profile	Page (Tool)
16-300	HK60VPFT				•					291
	HK252						•			388
	HK252EL380						•			391
	EK60VPFTL					•				327
	PK60VPFT							•		367
	PK252							•		372
35-95	K8		•							245
50-120	K6		•							244
120-240	K7		•							245



Tool application chart

Tubular cable lugs and compression joints for solid conductors

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
0.75-16	K02		•							241
1.5-4	K93		•							239
1.5-10	K50			•						259
	EK50ML			•						278
	EK1550					•				308
	EK1550G					•				310
1.5-16	K354			•						260
	EK354					•				314
	EK354L					•				316
	K18			•						262
	HK6018				•					286
	EK5018L					•				320
	PK18							•		362
	THK18						•			362
	HK60UNV	+ UA18			•					354
	EK60UNVL	+ UA18				•				357
	EKM60UNVL	+ UA18				•				356
	PK60UNV	+ UA18						•		355
	K22			•						264
	HK6022				•					288
	EK6022L					•				324
	EKM6022L					•				322
	PK22							•		364
	THK22						•			364
	HK60UNV	+ UA22			•					354
	EK60UNVL	+ UA22				•				357
	EKM60UNVL	+ UA22				•				356
	PK60UNV	+ UA22						•		355
6-10	K94		•							240
25-50*	K05		•							247

*For sizes 25 + 35 mm², use the die size 25 mm².
For size 50 mm² use die size 35 mm².
We recommend 2 crimps on each side.

Our specialists.

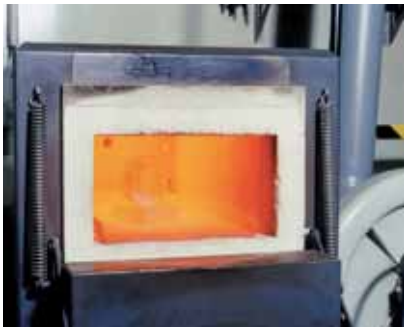
Nickel and stainless steel tubular cable lugs.

Unique situations require unique solutions.
This is especially true in most of the diverse industrial sectors. For example in furnace construction or in the steel industry: Temperatures of several hundred degrees Celsius are very common here. Connections also have to meet special requirements in the chemical, food and maritime industries.

Klauke meets this demand with a host of solutions in nickel and stainless steel. These materials guarantee consistent electrical, chemical and mechanical properties at extremely high temperatures.

Nickel and stainless steel tubular cable lugs cover a diverse range of applications - such as industrial and shipbuilding.

- **Nickel tubular cable lugs and connectors, heat resistant to 650 °C.**
- **Acid and rust-resistant stainless steel tubular cable lugs and connectors, heat resistant to 400 °C.**
- **Special solutions for diverse applications.**



When it gets really hot: *Nickel.*

- **Heat resistant up to 650 °C.**
- Resistant to oxidation.

Benefits:

- Nickel tubular cable lugs and butt connectors are most suitable for use in heating and annealing furnaces. They retain their conductivity and failures are excluded.
- Nickel connectors even guarantee safe electrical connections in aggressive environments.

- *More from Page 66.*

Oxidation-free and food-industry compliant: *Stainless steel.*

- Highly resistant to oxidation.
- Food industry-compliant.
- **Resistant to seawater, acids and solvents.**
- Heat resistant up to 400 °C.

Benefits:

- The cable lugs are capable of meeting the most stringent hygiene requirements in food and pharmaceutical industries.
- Stainless steel cable lugs and connectors can also be used without hesitation in both the chemical and maritime industries.

- *More from Page 64.*

The adequate solutions *in nickel or stainless steel.*

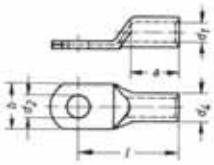
- Up to 95 mm² nominal cross section in nickel and stainless steel.
- **Customised solutions upon request.**

Benefits:

- We provide suitable cable lug in the fastest possible time for a host of applications.
- You can rely on Klauke's problem-solving skills, even when it comes to meeting the most complicated requirements.

Checklist for special solutions (Page i-15)

Tubular cable lugs, stainless steel



VA

- Ideal for aggressive environmental conditions, acid and rust-resistant
- Heat resistant to 400 °C

Characteristics

- Total cross-section: 0.5 - 95 mm²
- Flat contact surface by special steel punching technology
- Precise end machining for easy cable insertion

Material

- V2A

Order info

- Also available in stainless steel (V4A)

Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm						Weight/ 100 pcs. ~ kg	Packing unit/ pcs
			d1	a	b	d2	d4	l		
0.5-1	M4	**79V4**	1.6	6	6.5	4.3	3.2	13	0.080	100
	M5	**79V5**	1.6	6	7.5	5.3	3.2	14	0.080	100
1.5-2.5	M4	**80V4**	3.0	8	9.0	4.3	5.0	17	0.260	100
	M5	**80V5**	3.0	8	9.0	5.5	5.0	17	0.190	100
	M6	**80V6**	3.0	8	9.5	6.5	5.0	19	0.215	100
4-6	M4	**81V4**	4.0	9	9.0	4.3	6.0	18	0.260	100
	M5	**81V5**	4.0	9	9.5	5.5	6.0	19	0.280	100
	M6	**81V6**	4.0	9	10.0	6.5	6.0	19	0.280	100
10	M5	**82V5**	5.0	10	12.5	5.5	8.0	22	0.710	100
	M6	**82V6**	5.0	10	12.5	6.5	8.0	22	0.780	100
	M8	**82V8**	5.0	10	15.0	8.5	8.0	25	0.780	100
16	M5	**83V5**	6.0	13	12.0	5.5	8.0	28	0.500	50
	M6	**83V6**	6.0	13	12.0	6.5	8.0	28	0.550	50
	M8	**83V8**	6.0	13	15.0	8.5	8.0	29	0.600	50
25	M6	**84V6**	7.0	15	14.0	6.5	10.0	30	1.210	50
	M8	**84V8**	7.0	15	16.0	8.5	10.0	32	1.850	50
35	M6	**85V6**	9.0	17	17.0	6.5	12.0	32	1.600	50
	M8	**85V8**	9.0	17	17.0	8.5	12.0	35	1.850	50
50	M6	**86V6**	10.0	19	20.0	6.5	14.0	37	2.800	50
	M8	**86V8**	10.0	19	20.0	8.5	14.0	37	2.600	50
	M10	**86V10**	10.0	19	20.0	10.5	14.0	39	2.800	50
	M12	**86V12**	10.0	19	20.0	13.0	14.0	43	2.960	50
70	M8	**87V8**	12.0	21	23.0	8.5	16.0	43	3.650	25
	M10	**87V10**	12.0	21	23.0	10.5	16.0	44	3.930	25
	M12	**87V12**	12.0	21	23.0	13.0	16.0	46	3.850	25
	M16	**87V16**	12.0	21	26.0	17.0	16.0	46	3.960	25
95	M8	**88V8**	14.0	25	26.0	8.5	18.0	48	4.650	25
	M10	**88V10**	14.0	25	26.0	10.5	18.0	48	5.610	25
	M12	**88V12**	14.0	25	26.0	13.0	18.0	49	5.540	25

Tools: see chart page 68

Butt connectors, stainless steel

- Ideal for aggressive environmental conditions, acid and rust-resistant
- Heat resistant to 400 °C

VA

Characteristics

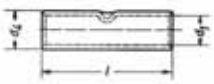
- Total cross-section: 0.5 - 95 mm²
- With buttmarks for precise cable insertion
- Precise end machining for easy cable insertion

Material

- V2A

Order info

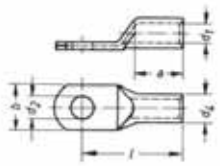
- Also available in stainless steel (V4A)



Nominal cross section mm²	Part No.	Dimension mm d1	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.5-1	**79R**	1.6	3.2	25	0.135	50
1.5-2.5	**80R**	3.0	5.0	25	0.250	50
4-6	**81R**	4.0	6.0	25	0.325	50
10	**82R**	5.0	8.0	25	0.360	50
16	**83R**	6.0	8.0	30	0.510	50
25	**84R**	7.0	10.0	35	1.100	25
35	**85R**	9.0	12.0	40	1.560	25
50	**86R**	10.0	14.0	45	2.670	25
70	**87R**	12.0	16.0	50	3.400	25
95	**88R**	14.0	18.0	55	4.300	25

Tools: see chart page 68

Tubular cable lug, Ni



Ni

▸ **Suitable for high temperatures to 650 °C**

Characteristics

- Total cross-section: 0.5 - 95 mm²
- Flat contact surface by special steel punching technology
- Precise end machining for easy cable insertion

Material

- High-grade nickel

Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm d1	a	b	d2	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
0.5-1	M4	**56N4**	1.6	6	6.5	4.3	3.2	13	0.080	100
	M5	**56N5**	1.6	6	7.5	5.3	3.2	14	0.080	100
1.5-2.5	M4	**57N4**	2.3	6	7.0	4.3	3.9	13	0.105	100
	M5	**57N5**	2.3	6	7.5	5.3	3.9	14	0.105	100
	M6	**57N6**	2.3	6	9.5	6.5	3.9	16	0.130	100
4-6	M4	**58N4**	3.6	9	9.5	4.3	5.6	18	0.275	100
	M5	**58N5**	3.6	9	9.5	5.3	5.6	19	0.275	100
	M6	**58N6**	3.6	9	9.5	6.5	5.6	19	0.260	100
10	M5	**59N5**	4.5	10	12.0	5.5	6.5	21	0.340	100
	M6	**59N6**	4.5	10	12.0	6.5	6.5	22	0.360	100
16	M5	**60N5**	5.5	13	12.0	5.5	7.5	26	0.470	100
	M6	**60N6**	5.5	13	12.0	6.5	7.5	27	0.480	100
	M8	**60N8**	5.5	13	13.5	8.5	7.5	29	0.560	100
25	M6	**61N6**	7.0	15	14.0	6.5	10.0	30	1.200	50
	M8	**61N8**	7.0	15	16.0	8.5	10.0	32	1.320	50
35	M6	**62N6**	8.5	17	17.0	6.5	12.0	32	1.850	50
	M8	**62N8**	8.5	17	17.0	8.5	12.0	34	2.000	50
50	M8	**63N8**	10.0	19	20.0	8.5	14.0	37	2.900	50
	M10	**63N10**	10.0	19	20.0	10.5	14.0	39	3.100	50
70	M10	**64N10**	12.0	21	23.0	10.5	16.5	44	4.600	25
	M12	**64N12**	12.0	21	23.0	13.0	16.5	46	4.660	25
95	M10	**65N10**	13.5	25	26.0	10.5	18.0	48	5.550	25
	M12	**65N12**	13.5	25	26.0	13.0	18.0	49	5.600	25

▸ **Tools: see chart page 68**

Tubular cable lugs, Ni, fork type

- Suitable for high temperatures to 650 °C
- Fork-type version for simple and direct screw mounting

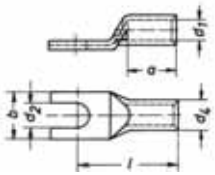
Ni

Characteristics

- Total cross-section: 0.5 - 16 mm²
- Flat contact surface by special steel punching technology
- Precise end machining for easy cable insertion

Material

- High-grade nickel



Nominal cross section mm²	Size of bolt dia.	Part No.	Dimension mm d1	a	b	d2	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
0.5-1	M4	**56C4**	1.6	6	6.5	4.3	3.2	13	0.070	50
	M5	**56C5**	1.6	6	7.5	5.3	3.2	14	0.075	50
1.5-2.5	M4	**57C4**	2.3	6	7.0	4.3	3.9	13	0.095	50
	M5	**57C5**	2.3	6	7.5	5.3	3.9	14	0.095	50
	M6	**57C6**	2.3	6	9.5	6.5	3.9	16	0.110	50
4-6	M4	**58C4**	3.6	9	9.5	4.3	5.6	18	0.250	50
	M5	**58C5**	3.6	9	9.5	5.3	5.6	19	0.255	50
	M6	**58C6**	3.6	9	9.5	6.5	5.6	19	0.235	50
10	M5	**59C5**	4.5	10	12.0	5.5	6.5	21	0.320	50
	M6	**59C6**	4.5	10	12.0	6.5	6.5	22	0.340	50
16	M5	**60C5**	5.5	13	12.0	5.5	7.5	26	0.440	50
	M6	**60C6**	5.5	13	12.0	6.5	7.5	27	0.450	50
	M8	**60C8**	5.5	13	13.5	8.5	7.5	29	0.520	50

Tools: see chart page 68

Butt connectors, Ni

- Suitable for high temperatures to 650 °C

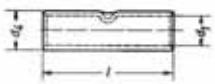
Ni

Characteristics

- Total cross-section: 0.5 - 16 mm²
- With buttmarks for precise cable insertion
- Precise end machining for easy cable insertion

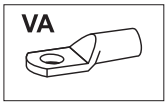
Material

- High-grade nickel



Nominal cross section mm²	Part No.	Dimension mm d1	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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

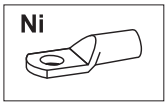
Tools: see chart page 68



Tool application chart

Tubular cable lugs and butt connectors made from stainless steel

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
0.5-6	K25		•							242
0.5-16	K354			•						260
	EK354					•				314
	EK354L					•				316
10-50	K22			•						264
	HK6022				•					288
	EKM6022L					•				322
	EK6022L					•				324
	PK22							•		364
	THK22						•			364
	HK60UNV	+ UA22			•					354
	EK60UNVL	+ UA22				•				357
	EKM60UNVL	+ UA22				•				356
	PK60UNV	+ UA22						•		355



Tool application chart

Tubular cable lugs and butt connectors made from nickel

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
0.5-6	K25		•							242
0.5-16	K354			•						260
	EK354					•				314
	EK354L					•				316
10-50	K22			•						264
	HK6022				•					288
	EK6022L					•				324
	EKM6022L					•				322
	PK22							•		364
	THK22						•			364
	HK60UNV	+ UA22			•					354
	EK60UNVL	+ UA22				•				357
	EKM60UNVL	+ UA22				•				356
	PK60UNV	+ UA22						•		355

Best connections
entirely to standard.

Copper compression cable lugs and connectors to DIN.

In project business, customers often request use of standardised materials. Utilities, for example, often specify use of compression cable lugs and connectors according to DIN standards. Klauke offers numerous standard-compliant solutions.

Contrary to popular belief, DIN cable lugs differ from tubular cable lugs not only in terms of dimensions. Markings and standardised coding specify the number of crimps.

DIN-compliant compression cable lugs with specified identification marks for crimps.

- **Compression cable lugs to DIN 46235 up to 1000 mm².**
- **Angled compression cable lugs to DIN dimensions.**
- **Compression joints for non-tension connections to DIN.**
- **Sleeves and reducing sleeves for compacted conductors.**

Always to **DIN** *standards.*

- **Nominal cross sections up to 1000 mm².**
- Conforming to DIN standards, tested to IEC.
- Tin-plated or bright finish available.
- Also with barrier.

Benefits:

- The Klauke range includes DIN compression cable lugs and connectors to suit every application.
- Bright finish versions are especially suitable for installations in overvoltage or lightning protection systems.

More from Page 72.

Simply **angled,** *improved fit.*

- Compression cable lugs angled at 45° and 90°.
- Nominal cross sections up to 240 mm².

Benefits:

- You will find the right solution. **Even for confined and awkward situations**.

More from Page 74.

Correct crimping **mark by mark.**

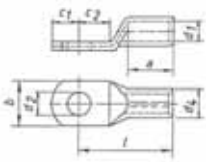
- All DIN compression cable lugs and connectors have markings for correct crimping.
- Designation for narrow and wide crimping.
- Engraved code, cross-section and hole diameter for fast assignment.
- All compression cable lugs are annealed to optimise material and crimping characteristics.
- Manufacturer's identification for simple re-ordering.

Benefits:

- The designated crimp markings show you at a glance where and how often the connecting material has to be crimped.
- The annealed material flows more efficiently around the conductor during the crimping operation, so creating a secure connection.
- Crimping is made much easier and the tools' service life is extended due to the low mechanical strain.

Klauke connecting materials to DIN are designated by two different crimp markings. One for narrow crimps with 6-ton tools and the other for wide crimps with 12-ton tools.

Compression cable lugs acc. to DIN, Cu



- Acc. to DIN 46235
- With code number for clear tool assignment
- For round conductors e.g VDE 0295 Class 1, 2, 5 and 6
- For pre-rounded multi-stranded sector shaped conductors

Characteristics

- Total cross-section: 6 - 1000 mm²
- With crimp markings for correct crimping
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info

- Bright finish version also available, part number appendix "bk"
- Item in barrier design upon request

Nominal cross section mm²	Size of bolt dia.	Part No.	Code	Dimension mm a	b	d1	d2	d4	c1	c2	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
6	M 5	**101R5**	5	10	8.5	3.8	5.3	5.5	6.5	7.5	24	0.24	100
	M 6	**101R6**	5	10	8.5	3.8	6.4	5.5	7.5	8.0	24	0.30	100
	M 8	***101R8**	5	10	13.0	3.8	8.4	5.5	10.0	10.0	24	0.34	100
10	M 5	**102R5**	6	10	9.0	4.5	5.3	6.0	7.0	8.5	27	0.37	100
	M 6	**102R6**	6	10	9.0	4.5	6.4	6.0	7.5	8.5	27	0.36	100
	M 8	***102R8**	6	10	13.0	4.5	8.4	6.0	10.0	10.0	27	0.38	100
16	M 6	**103R6**	8	20	13.0	5.5	6.4	8.5	7.5	8.0	36	1.19	100
	M 8	**103R8**	8	20	13.0	5.5	8.4	8.5	10.0	10.0	36	1.22	100
	M 10	**103R10**	8	20	17.0	5.5	10.5	8.5	12.0	12.0	36	1.30	100
	M 12	***103R12**	8	20	18.0	5.5	13.0	8.5	13.0	13.0	36	1.27	100
25	M 6	**104R6**	10	20	14.0	7.0	6.4	10.0	7.5	8.0	38	1.51	50
	M 8	**104R8**	10	20	16.0	7.0	8.4	10.0	10.0	10.0	38	1.54	50
	M 10	**104R10**	10	20	17.0	7.0	10.5	10.0	12.0	12.0	38	1.62	50
	M 12	**104R12**	10	20	19.0	7.0	13.0	10.0	13.0	13.0	38	1.66	25
35	M 6	***105R6**	12	20	17.0	8.2	6.4	12.5	7.5	8.0	42	2.77	50
	M 8	**105R8**	12	20	17.0	8.2	8.4	12.5	10.0	10.0	42	2.85	50
	M 10	**105R10**	12	20	19.0	8.2	10.5	12.5	12.0	12.0	42	2.84	50
	M 12	**105R12**	12	20	21.0	8.2	13.0	12.5	13.0	13.0	42	2.79	50
	M 14	***105R14**	12	20	21.0	8.2	15.0	12.5	14.5	14.5	42	2.70	25
50	M 8	**106R8**	14	28	20.0	10.0	8.4	14.5	10.0	10.0	52	4.46	50
	M 10	**106R10**	14	28	22.0	10.0	10.5	14.5	12.0	12.0	52	4.48	50
	M 12	**106R12**	14	28	24.0	10.0	13.0	14.5	13.0	13.0	52	4.40	50
	M 14	***106R14**	14	28	24.0	10.0	15.0	14.5	14.5	14.5	52	4.30	25
	M 16	**106R16**	14	28	28.0	10.0	17.0	14.5	16.0	16.0	52	4.57	25
70	M 8	**107R8**	16	28	24.0	11.5	8.4	16.5	10.0	10.0	55	5.92	50
	M 10	**107R10**	16	28	24.0	11.5	10.5	16.5	12.0	12.0	55	6.02	50
	M 12	**107R12**	16	28	24.0	11.5	13.0	16.5	13.0	13.0	55	5.89	50
	M 14	***107R14**	16	28	24.0	11.5	15.0	16.5	14.5	14.5	55	5.80	25
	M 16	**107R16**	16	28	30.0	11.5	17.0	16.5	16.0	16.0	55	6.13	25
95	M 8	**108R8***	18	35	28.0	13.5	8.4	19.0	12.0	12.0	65	9.21	25
	M 10	**108R10**	18	35	28.0	13.5	10.5	19.0	12.0	12.0	65	8.97	50
	M 12	**108R12**	18	35	28.0	13.5	13.0	19.0	13.0	13.0	65	8.62	50
	M 14	***108R14**	18	35	28.0	13.5	15.0	19.0	14.5	14.5	65	8.78	25
	M 16	**108R16**	18	35	32.0	13.5	17.0	19.0	16.0	16.0	65	9.00	50

Compression cable lugs acc. to DIN, Cu

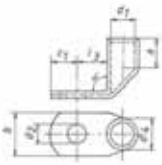
Nominal cross section mm²	Size of bolt dia.	Part No.	Code	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	d4	c1	c2	l		
120	M 10	**109R10**	20	35	32.0	15.5	10.5	21.0	15.0	16.0	70	11.40	50
	M 12	**109R12**	20	35	32.0	15.5	13.0	21.0	16.0	17.0	70	11.31	50
	M 14	***109R14**	20	35	32.0	15.5	15.0	21.0	18.0	19.0	70	11.45	25
	M 16	**109R16**	20	35	32.0	15.5	17.0	21.0	19.0	20.0	70	11.24	50
	M 20	**109R20**	20	35	38.0	15.5	21.0	21.0	21.0	22.0	70	11.03	25
150	M 10	**110R10**	22	35	34.0	17.0	10.5	23.5	15.0	16.0	78	16.38	10
	M 12	**110R12**	22	35	34.0	17.0	13.0	23.5	16.0	17.0	78	16.29	25
	M 14	***110R14**	22	35	34.0	17.0	15.0	23.5	19.0	20.0	78	16.38	10
	M 16	**110R16**	22	35	34.0	17.0	17.0	23.5	19.0	20.0	78	16.17	10
	M 20	**110R20**	22	35	40.0	17.0	21.0	23.5	21.0	22.0	78	15.90	10
185	M 10	**111R10**	25	40	37.0	19.0	10.5	25.5	15.0	16.0	82	18.96	10
	M 12	**111R12**	25	40	37.0	19.0	13.0	25.5	16.0	17.0	82	18.11	10
	M 14	***111R14**	25	40	37.0	19.0	15.0	25.5	19.0	20.0	82	19.21	10
	M 16	**111R16**	25	40	37.0	19.0	17.0	25.5	19.0	20.0	82	18.74	25
	M 20	**111R20**	25	40	40.0	19.0	21.0	25.5	21.0	22.0	82	18.69	10
240	M 12	**112R12**	28	40	42.0	21.5	13.0	29.0	16.0	17.0	92	27.00	10
	M 14	***112R14**	28	40	42.0	21.5	15.0	29.0	19.0	20.0	92	27.58	10
	M 16	**112R16**	28	40	42.0	21.5	17.0	29.0	19.0	20.0	92	27.37	25
	M 20	**112R20**	28	40	45.0	21.5	21.0	29.0	21.0	22.0	92	26.88	10
300	M 14	***113R14**	32	50	46.0	24.5	15.0	32.0	19.0	22.0	100	33.29	5
	M 16	**113R16**	32	50	46.0	24.5	17.0	32.0	19.0	22.0	100	32.94	5
	M 20	**113R20**	32	50	46.0	24.5	21.0	32.0	22.0	22.0	100	33.24	5
400	M 14	***114R14**	38	70	54.0	27.5	15.0	38.5	25.0	25.0	115	69.38	5
	M 16	**114R16**	38	70	54.0	27.5	17.0	38.5	25.0	25.0	115	68.54	5
	M 20	**114R20**	38	70	54.0	27.5	21.0	38.5	25.0	25.0	115	65.40	5
500	M 16	***115R16**	42	70	60.0	31.0	17.0	42.0	25.0	25.0	125	83.31	1
	M 20	**115R20**	42	70	60.0	31.0	21.0	42.0	25.0	25.0	125	81.58	1
625	M 16	***116R16**	44	80	64.0	34.5	17.0	44.0	25.0	25.0	135	79.60	1
	M 20	**116R20**	44	80	64.0	34.5	21.0	44.0	25.0	25.0	135	79.69	1
800	M 16	***117R16**	52	100	75.0	40.0	17.0	52.0	30.0	30.0	165	150.00	1
	M 20	**117R20**	52	100	75.0	40.0	21.0	52.0	30.0	30.0	165	149.00	1
1000	M 16	***118R16**	58	100	83.0	44.0	17.0	58.0	30.0	30.0	165	199.00	1
	M 20	**118R20**	58	100	83.0	44.0	21.0	58.0	30.0	30.0	165	195.00	1

- * = not standardized
- 10-800 mm² IEC tested

Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"

Tools: see chart page 84

Angle compression cable lugs, Cu, 90° angled



- Tube dimensions according to DIN 46235
- With code number for clear tool assignment
- For round conductors e.g VDE 0295 Class 1, 2, 5 and 6
- For pre-rounded multi-stranded sector shaped conductors
- Flat contact surface by special angle punching process

Characteristics

- Total cross-section: 6 - 240 mm²
- With crimp markings for correct crimping
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info

- Bright finish version also available, part number appendix "bk"

Nominal cross section mm²	Size of bolt dia.	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	8.5	3.8	5.3	5.5	6.5	9	0.28	50
	M 6	**161R6**	5	10	8.5	3.8	6.4	5.5	7.5	10	0.32	50
10	M 5	**162R5**	6	10	9.0	4.5	5.3	6.0	7.0	10	0.34	50
	M 6	**162R6**	6	10	9.0	4.5	6.4	6.0	7.5	10	0.35	50
	M 8	**162R8**	6	10	13.0	4.5	.0	6.0	10.0	13	0.37	50
16	M 6	**163R6**	8	20	13.0	5.5	6.4	8.5	7.5	11	1.20	50
	M 8	**163R8**	8	20	13.0	5.5	8.4	8.5	10.0	13	1.30	50
	M 10	**163R10**	8	20	17.0	5.5	10.5	8.5	12.0	15	1.40	50
	M 12	**163R12**	8	20	18.0	5.5	13.0	8.5	13.0	18	1.33	50
25	M 6	**164R6**	10	20	14.0	7.0	6.4	10.0	7.5	11	1.54	25
	M 8	**164R8**	10	20	16.0	7.0	8.4	10.0	10.0	13	1.60	25
	M 10	**164R10**	10	20	17.0	7.0	10.5	10.0	12.0	15	1.63	25
	M 12	**164R12**	10	20	19.0	7.0	13.0	10.0	13.0	18	1.70	25
35	M 8	**165R8**	12	20	17.0	8.2	8.4	12.5	10.0	13	2.72	25
	M 10	**165R10**	12	20	19.0	8.2	10.5	12.5	12.0	15	2.76	25
	M 12	**165R12**	12	20	21.0	8.2	13.0	12.5	13.0	18	2.85	25
	M 14	**165R14**	12	20	21.0	8.2	15.0	12.5	14.5	20	2.92	25
50	M 8	**166R8**	14	28	20.0	10.0	8.4	14.5	10.0	16	4.39	25
	M 10	**166R10**	14	28	22.0	10.0	10.5	14.5	12.0	16	4.46	25
	M 12	**166R12**	14	28	24.0	10.0	13.0	14.5	13.0	18	4.49	25
	M 14	**166R14**	14	28	24.0	10.0	15.0	14.5	14.5	20	4.73	25
	M 16	**166R16**	14	28	28.0	10.0	17.0	14.5	16.0	22	4.66	25
70	M 8	**167R8**	16	28	24.0	11.5	8.4	16.5	10.0	14	5.92	25
	M 10	**167R10**	16	28	24.0	11.5	10.5	16.5	12.0	16	6.31	25
	M 12	**167R12**	16	28	24.0	11.5	13.0	16.5	13.0	18	6.34	25
	M 14	**167R14**	16	28	24.0	11.5	15.0	16.5	14.5	20	6.50	25
	M 16	**167R16**	16	28	30.0	11.5	17.0	16.5	16.0	22	6.63	25
95	M 10	**168R10**	18	35	28.0	13.5	10.5	19.0	12.0	17	9.03	25
	M 12	**168R12**	18	35	28.0	13.5	13.0	19.0	13.0	18	9.27	25
	M 14	**168R14**	18	35	28.0	13.5	15.0	19.0	14.5	20	9.06	25
	M 16	**168R16**	18	35	32.0	13.5	17.0	19.0	16.0	22	9.18	25

Angle compression cable lugs, Cu, 90° angled

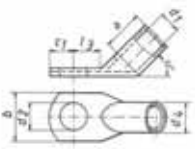
Nominal cross section mm²	Size of bolt dia.	Part No.	Code	Dimension mm							Weight/ 100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	d4	c1	l3		
120	M 10	**169R10**	20	35	32.0	15.5	10.5	21.0	15.0	17	10.41	10
	M 12	**169R12**	20	35	32.0	15.5	13.0	21.0	16.0	18	10.65	10
	M 14	**169R14**	20	35	32.0	15.5	15.0	21.0	18.0	20	10.75	10
	M 16	**169R16**	20	35	32.0	15.5	17.0	21.0	19.0	22	10.72	10
	M 20	**169R20**	20	35	38.0	15.5	21.0	21.0	21.0	24	11.00	10
150	M 10	**170R10**	22	35	34.0	17.0	10.5	23.5	15.0	17	14.18	10
	M 12	**170R12**	22	35	34.0	17.0	13.0	23.5	16.0	18	14.33	10
	M 14	**170R14**	22	35	34.0	17.0	15.0	23.5	19.0	20	15.60	10
	M 16	**170R16**	22	35	34.0	17.0	17.0	23.5	19.0	22	15.24	10
	M 20	**170R20**	22	35	40.0	17.0	21.0	23.5	21.0	24	15.70	10
185	M 10	**171R10**	25	40	37.0	19.0	10.5	25.5	15.0	22	18.60	10
	M 12	**171R12**	25	40	37.0	19.0	13.0	25.5	16.0	22	18.69	10
	M 14	**171R14**	25	40	37.0	19.0	15.0	25.5	19.0	22	19.10	10
	M 16	**171R16**	25	40	37.0	19.0	17.0	25.5	19.0	22	19.00	10
	M 20	**171R20**	25	40	40.0	19.0	21.0	25.5	21.0	24	18.72	10
240	M 12	**172R12**	28	40	42.0	21.5	13.0	29.0	16.0	22	25.09	10
	M 14	**172R14**	28	40	42.0	21.5	15.0	29.0	19.0	22	25.70	10
	M 16	**172R16**	28	40	42.0	21.5	17.0	29.0	19.0	22	24.96	10
	M 20	**172R20**	28	40	45.0	21.5	21.0	29.0	21.0	24	25.26	10

▸ 10-240 mm² IEC tested

ⓘ Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"

▸ **Tools: see chart page 84**

Angle compression cable lugs, Cu, 45° angled



- Tube dimensions according to DIN 46235
- With code number for clear tool assignment
- For round conductors e.g VDE 0295 Class 1, 2, 5 and 6
- For pre-rounded multi-stranded sector shaped conductors
- Flat contact surface by special angle punching process

Characteristics

- Total cross-section: 6 - 240 mm²
- With crimp markings for correct crimping
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info

- Bright finish version also available, part number appendix "bk"

Nominal cross section mm²	Size of bolt dia.	Part No.	Code	Dimension mm a	b	d1	d2	d4	c1	l3	Weight/ 100 pcs. ~ kg	Packing unit/pcs
6	M 5	**161R545**	5	10	8.5	3.8	5.5	5.5	6.5	9	0.32	50
	M 6	**161R645**	5	10	8.5	3.8	6.5	5.5	7.5	10	0.34	50
10	M 5	**162R545**	6	10	9.0	4.5	5.5	6.0	7.0	10	0.36	50
	M 6	**162R645**	6	10	9.0	4.5	6.5	6.0	7.5	10	0.35	50
	M 8	**162R845**	6	10	13.0	4.5	8.5	6.0	10.0	13	0.39	50
16	M 6	**163R645**	8	20	13.0	5.5	6.5	8.5	7.5	11	1.20	50
	M 8	**163R845**	8	20	13.0	5.5	8.5	8.5	10.0	13	0.28	50
	M 10	**163R1045**	8	20	17.0	5.5	10.5	8.5	12.0	15	1.34	50
	M 12	**163R1245**	8	20	18.0	5.5	13.0	8.5	13.0	18	1.35	50
25	M 6	**164R645**	10	20	14.0	7.0	6.5	10.0	7.5	11	1.49	25
	M 8	**164R845**	10	20	16.0	7.0	8.5	10.0	10.0	13	1.60	25
	M 10	**164R1045**	10	20	17.0	7.0	10.5	10.0	12.0	15	1.64	25
	M 12	**164R1245**	10	20	19.0	7.0	13.0	10.0	13.0	18	1.73	25
35	M 8	**165R845**	12	20	17.0	8.2	8.5	12.5	10.0	13	2.72	25
	M 10	**165R1045**	12	20	19.0	8.2	10.5	12.5	12.0	15	2.92	25
	M 12	**165R1245**	12	20	21.0	8.2	13.0	12.5	13.0	18	2.98	25
	M 14	**165R1445**	12	20	21.0	8.2	15.0	12.5	14.5	20	3.03	25
50	M 8	**166R845**	14	28	20.0	10.0	8.5	14.5	10.0	13	4.63	25
	M 10	**166R1045**	14	28	22.0	10.0	10.5	14.5	12.0	16	4.84	25
	M 12	**166R1245**	14	28	24.0	10.0	13.0	14.5	13.0	18	4.94	25
	M 14	**166R1445**	14	28	24.0	10.0	15.0	14.5	14.5	20	4.96	25
	M 16	**166R1645**	14	28	28.0	10.0	17.0	14.5	16.0	22	4.92	25
70	M 8	**167R845**	16	28	24.0	11.5	8.5	16.5	10.0	14	6.40	25
	M 10	**167R1045**	16	28	24.0	11.5	10.5	16.5	12.0	16	6.76	25
	M 12	**167R1245**	16	28	24.0	11.5	13.0	16.5	13.0	18	6.90	25
	M 14	**167R1445**	16	28	24.0	11.5	15.0	16.5	14.5	20	6.72	25
	M 16	**167R1645**	16	28	30.0	11.5	17.0	16.5	16.0	22	6.96	25
95	M 10	**168R1045**	18	35	28.0	13.5	10.5	19.0	12.0	17	9.64	25
	M 12	**168R1245**	18	35	28.0	13.5	13.0	19.0	13.0	18	9.21	25
	M 14	**168R1445**	18	35	28.0	13.5	15.0	19.0	14.5	20	9.51	25
	M 16	**168R1645**	18	35	32.0	13.5	17.0	19.0	16.0	22	9.40	25

Angle compression cable lugs, Cu, 45° angled

Nominal cross section mm²	Size of bolt dia.	Part No.	Code	Dimension mm a	b	d1	d2	d4	c1	l3	Weight/ 100 pcs. ~ kg	Packing unit/pcs
120	M 10	**169R1045**	20	35	32.0	15.5	10.5	21.0	15.0	17	11.09	10
	M 12	**169R1245**	20	35	32.0	15.5	13.0	21.0	16.0	18	11.45	10
	M 14	**169R1445**	20	35	32.0	15.5	15.0	21.0	18.0	20	11.55	10
	M 16	**169R1645**	20	35	32.0	15.5	17.0	21.0	19.0	22	11.76	10
	M 20	**169R2045**	20	35	38.0	15.5	21.0	21.0	21.0	24	11.55	10
150	M 10	**170R1045**	22	35	34.0	17.0	10.5	23.5	15.0	17	15.93	10
	M 12	**170R1245**	22	35	34.0	17.0	13.0	23.5	16.0	18	16.08	10
	M 14	**170R1445**	22	35	34.0	17.0	15.0	23.5	19.0	20	16.38	10
	M 16	**170R1645**	22	35	34.0	17.0	17.0	23.5	19.0	22	16.90	10
	M 20	**170R2045**	22	35	40.0	17.0	21.0	23.5	21.0	24	16.49	10
185	M 10	**171R1045**	25	40	37.0	19.0	10.5	25.5	15.0	22	20.16	10
	M 12	**171R1245**	25	40	37.0	19.0	13.0	25.5	16.0	22	19.60	10
	M 14	**171R1445**	25	40	37.0	19.0	15.0	25.5	19.0	22	20.05	10
	M 16	**171R1645**	25	40	37.0	19.0	17.0	25.5	19.0	22	19.68	10
	M 20	**171R2045**	25	40	40.0	19.0	21.0	25.5	21.0	24	19.95	10
240	M 12	**172R1245**	28	40	42.0	21.5	13.0	29.0	16.0	22	26.46	10
	M 14	**172R1445**	28	40	42.0	21.5	15.0	29.0	19.0	22	26.99	10
	M 16	**172R1645**	28	40	42.0	21.5	17.0	29.0	19.0	22	26.92	10
	M 20	**172R2045**	28	40	45.0	21.5	21.0	29.0	21.0	24	26.88	10

▸ 10-240 mm² IEC tested

ⓘ Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"

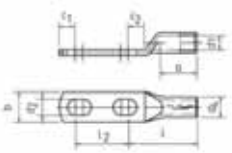
▸ **Tools: see chart page 84**

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

- **Tube dimensions according to DIN 46235**
- **With code number for clear tool assignment**
- **For round conductors e.g VDE 0295 Class 1, 2, 5 and 6**
- **For pre-rounded multi-stranded sector shaped conductors**

DIN

IEC



Characteristics

- Total cross-section: 70 - 240 mm²
- With crimp markings for correct crimping
- Annealed material optimises material and crimping properties
- Flat contact surface by special pressing technique
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info

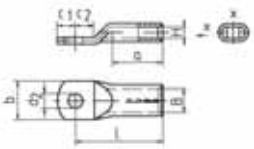
- Bright finish version also available, part number appendix "bk"

Nominal cross section mm²	Size of bolt dia.	Part No.	Code	Dimension mm a	b	d1	d2	d4	c1	c2	l	l2	Weight/ 100 pcs. ~ kg	Packing unit/pcs
70	2 x M 12	**147D212**	16	28	24	11.5	13	16.5	13	13	55	50 - 62	10.82	5
95		**148D212**	18	35	28	13.5	13	19.0	13	13	65	50 - 62	15.24	5
120		**149D212**	20	35	32	15.5	13	21.0	16	17	70	50 - 62	18.62	5
150		**150D212**	22	35	34	17.0	13	23.5	16	17	78	50 - 62	26.10	5
185		**151D212**	25	40	37	19.0	13	25.5	16	17	82	50 - 62	30.48	5
240		**152D212**	28	40	42	21.5	13	29.0	16	17	92	50 - 62	41.52	5

ⓘ Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"

▸ **Tools: see chart page 84**

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



DIN

Special design for mounting of 2 multi-stranded cables according to VDE 0295 Class 2

Characteristics
- Total cross-section: 2 x 50 - 2 x 120 mm²
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material
- Copper acc. to EN 13600

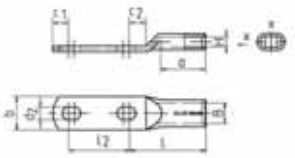
Surface
- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info
- Bright finish version also available, part number appendix "bk"

Nominal cross section mm²	Size of bolt dia.	Part No.	Code	Dimension mm a	b	d2	c1	c2	l	H	B	Weight/ 100 pcs. ~ kg	Packing unit/pcs
2 x 50	M 12	**136DP12**	22 DP	35	34	13	16	17	78	10.0	20	16.30	5
2 x 70		**137DP12**	24 DP	40	37	13	16	17	82	11.5	23	18.90	5
2 x 95		**138DP12**	29 DP	40	42	13	16	17	92	13.5	27	27.12	5
2 x 120		**139DP12**	32 DP	50	48	13	19	22	100	15.5	31	33.50	5

Tools: see chart page 85

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



DIN

Special design for mounting of 2 multi-stranded cables according to VDE 0295 Class 2

Characteristics
- Total cross-section: 2 x 50 - 2 x 120 mm²
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion
- Flat contact surface by special pressing technique

Material
- Copper acc. to EN 13600

Surface
- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info
- Bright finish version also available, part number appendix "bk"

Nominal cross section mm²	Size of bolt dia.	Part No.	Code	Dimension mm a	b	d2	c1	c2	l	l2	H	B	Weight/ 100 pcs. ~ kg	Packing unit/pcs
2 x 50	2 x M 12	**136DP212**	22 DP	35	34	13	16	17	78	50 - 62	10.0	20	23.20	5
2 x 70		**137DP212**	24 DP	40	37	13	16	17	82	50 - 62	11.5	23	29.64	5
2 x 95		**138DP212**	29 DP	40	42	13	16	17	92	50 - 62	13.5	27	38.50	5
2 x 120		**139DP212**	32 DP	50	48	13	19	22	100	50 - 62	15.5	31	45.80	5

Tools: see chart page 85

Compression joints acc. to DIN, Cu

- **Acc. to DIN 46267, part 1**
- **With code number for clear tool assignment**
- **With crimp markings for correct crimping**

Characteristics

- Total cross-section: 6 - 1000 mm²
- With buttmarks for precise cable insertion
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Tin-plated

Order info

- Bright finish version also available, part number appendix "bk"

Nominal cross section mm²	Part No.	Code	Dimension mm d1	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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

- 10-800 mm² IEC tested
- Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"
- Reduction sleeves to connect different cross sections can be found on page 83
- **Tools: see chart page 84**

Compression joints, Cu

- Barrier design with oil stop
- Tube dimension to DIN 46267 part 1
- With code number for clear tool assignment

Characteristics

- Total cross-section: 16 - 625 mm²
- For non-tension connections
- With crimp markings for correct crimping
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info

- Bright finish version also available, part number appendix "bk"

Nominal cross section mm²	Part No.	Code	Dimension mm d1	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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
625	**536R**	44	34.5	44.0	160	81.50	1

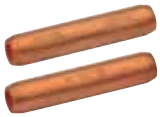
Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"

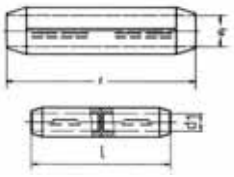
Reduction sleeves to connect different cross sections can be found at 83

Tools: see chart page 84

Compression joint for cable connections 10-30 kV, copper

- Tube dimension to DIN 46267 part 1
- With code number for clear tool assignment
- For copper medium-voltage cable connections 10-30 kV
- With bevelled edges for reduced winding expenditure for the assembly





Characteristics

- Total cross-section: 25 - 400 mm²
- For non-tension connections
- Also available as barrier design with oil stop
- With crimp markings for correct crimping
- Annealed material optimises material and crimping properties
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Bright finished

Order info

- Tinned version also available, part number appendix "v"

Nominal cross section mm²	Part No.	Code	Dimension mm d1	Dimension mm l	Number of crimps mech.	Number of crimps hydr.	Weight/ 100 pcs. ~ kg	Packing unit/pcs
Standard type								
25	**504R**	12	7.5	60	2/2	1/1	4.08	10
35	**505R**	12	8.2	60	2/2	1/1	3.56	10
50	**506R**	14	10.0	65	3/3	1/1	4.90	10
70	**507R**	16	11.5	65	3/3	1/1	6.10	10
95	**508R**	18	13.5	90	4/4	2/2	10.98	10
120	**509R**	20	15.5	90	4/4	2/2	12.68	5
150	**510R**	22	17.0	105	4/4	2/2	18.09	5
185	**511R**	25	19.0	105	4/4	2/2	20.35	5
240	**512R**	28	21.5	125		2/2	31.64	5
300	**513R**	32	24.5	125		2/2	35.40	1
400	**514R**	38	27.5	160		3/3	75.42	1
Barrier version								
25	**504RLD**	12	7.5	60	2/2	1/1	4.08	25
35	**505RLD**	12	8.2	60	2/2	1/1	3.56	10
50	**506RLD**	14	10.0	65	3/3	1/1	4.90	10
70	**507RLD**	16	11.5	65	3/3	1/1	6.40	10
95	**508RLD**	18	13.5	90	4/4	2/2	10.98	10
120	**509RLD**	20	15.5	90	4/4	2/2	12.68	5
150	**510RLD**	22	17.0	105	4/4	2/2	18.84	5
185	**511RLD**	25	19.0	105	4/4	2/2	20.35	5
240	**512RLD**	28	21.5	125		2/2	31.64	5
300	**513RLD**	32	24.5	125		2/2	35.40	1
400	**514RLD**	38	27.5	160		3/3	75.42	1

Reduction sleeves to connect different cross sections can be found at page 83
Tools: see chart page 84

Compression joints acc. to DIN, Cu

- For full tension cable connections
- Acc. to DIN 48085, part 1
- With code number for clear tool assignment

Characteristics

- Total cross-section: 6 - 300 mm²
- With crimp markings for correct crimping
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Bright finished

Nominal cross section mm²	Part No.	Code	Dimension mm d1	d4	l	Number of crimps mech.	hydr.	Conductor dia. mm	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
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			22.50	235.0	1

- * = not standardized
- 16-70 mm² IEC tested
- **Tools: see chart page 84**

Reduction sleeves, Cu

- For multi-stranded conductors e.g. VDE 0295 Class 2
- For connecting different conductor cross-sections
- For use in DIN compression joints and connectors, standard type

Characteristics

- Total cross-section: 25 - 400 mm²
- For non-tension connections
- Precise end machining for easy cable insertion

Material

- Copper acc. to EN 13600

Surface

- Bright finished

Part No.	Nominal cross section mm² from	Nominal cross section mm² to	Dimension mm d1	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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
RH400185	400	185	19.0	27.0	80	20.100	5
RH400240	400	240	21.5	27.0	80	14.270	5
RH400300	400	300	24.5	27.0	80	8.800	5

Please observe instructions in technical appendix / notes for fitting of connecting materials on page i-7

DIN

Tool application chart

Compression cable lugs and compression joints

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
6-50	K05D		•						⬡	247
6-120	K354			•					⬡	260
	EK354					•			⬡	314
	EK354L					•			⬡	316
6-185	K18			•					⬡	262
	HK6018				•				⬡	286
	EK505L					•			⬡	318
	EK5018L					•			⬡	320
	PK18							•	⬡	362
	THK18						•		⬡	362
	HK60UNV	+ UA18			•				⬡	354
	EK60UNVL	+ UA18				•			⬡	357
	EKM60UNVL	+ UA18				•			⬡	356
	PK60UNV	+ UA18						•	⬡	355
6-240	K22			•					⬡	264
	HK6022				•				⬡	288
	EK6022L					•			⬡	324
	EKM6022L					•			⬡	322
	PK22							•	⬡	364
	THK22						•		⬡	364
	HK60UNV	+ UA22			•				⬡	354
	EK60UNVL	+ UA22				•			⬡	357
	EKM60UNVL	+ UA22				•			⬡	356
	PK60UNV	+ UA22						•	⬡	355
	HK12030				•				⬡	292
	HK12042				•				⬡	294
	HK120U				•				⬡	296
	EK12030L					•			⬡	330
	EK12042L					•			⬡	332
	EK120UL					•			⬡	334
	HK122EL380						•		⬡	390
	PK12042							•	⬡	368
	PK120U							•	⬡	370
10-120	K06D		•						⬡	250
16-95	K08D		•						⬡	248
16-300	EK120UNVL					•			⬡	358
16-625	HK252						•		⬡	388
	HK252EL380						•		⬡	391
	PK252							•	⬡	372

DIN

Tool application chart

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
25-150	K09D		•						⬡	251
120-1000	HK45				•				⬡	389
	PK45							•	⬡	374

DIN

Tool application chart

Double compression cable lugs

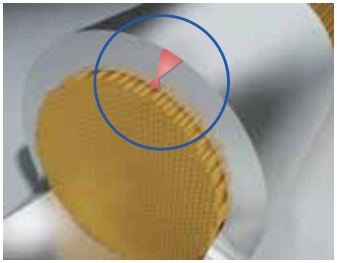
Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
2x50-2x70	K22			•					⬭	264
	HK6022				•				⬭	288
	EK6022L					•			⬭	324
	EKM6022L					•			⬭	322
	PK22							•	⬭	364
	THK22						•		⬭	364
	HK60UNV	+ UA22			•				⬭	354
	EK60UNVL	+ UA22				•			⬭	357
	EKM60UNVL	+ UA22				•			⬭	356
	PK60UNV	+ UA22						•	⬭	355
2x50-2x95	HK12030				•				⬭	292
	HK12042				•				⬭	294
	HK120U				•				⬭	296
	EK12030L					•			⬭	330
	EK12042L					•			⬭	332
	EK120UL					•			⬭	334
	EK120UNVL					•			⬭	358
	HK122EL380						•		⬭	390
	PK12042							•	⬭	368
	PK120U							•	⬭	370
2x50-2x120	HK252						•		⬭	388
	HK252EL380						•		⬭	391
	PK252							•	⬭	372

One design,
a host of quality features.

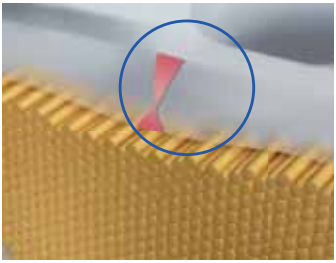
Solderless terminals to DIN 46234 and pin terminals to DIN 46230.

Klauke solderless terminals to DIN 46234 are the ideal solution for processing multi-stranded, fine stranded and superfine stranded conductors. Depending on the application, Klauke pin terminals to DIN 46230 are also the ideal solution for multi-stranded and fine stranded conductors. Special fork-type versions are also available.

All cable lugs are punched from highly conductive copper plate, hard soldered in the crimping area and equipped with a special grooved profile. The tin-plated finish ensures optimised protection against oxidation. The material is designed for continuous operation up to 120 °C.



The hard-soldered crimping area guarantees optimised stability. The soldering shows no signs of cracking, even after the crimping operation and the corresponding mechanical strain.



- **Hard-soldered solderless terminals and pin terminals with a grooved profile in the crimping area.**
- **Versions with halogen-free polyamide insulation.**
- **Special design for meter connections.**
- **Special connectors to DIN 46341 Form A and B.**

Quality *in detail.*

- With grooved profile on the inside.
- **Hard-soldered in the crimping area.**
- Solderless terminals with nominal cross sections from 0.5 mm^2 to 240 mm^2.
- Pin terminals with nominal cross sections from 0.5 mm^2 to 95 mm^2.

Benefits:

- Higher tensile strength due to internal grooved profile.
- No splitting of terminals during indent crimping on the soldered seam.
- Multi-stranded, fine stranded and superfine stranded conductors allow quick and trouble-free assembly.
- This comparatively short design is the ideal solution for control cabinet connections.

A host of advantages with **polyamide insulation.**

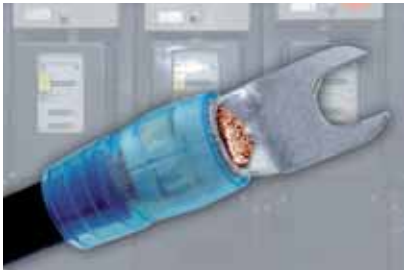
- Cable lugs with halogen-free insulating sleeve.
- No abutting edge for “easy-entry”.
- Burr-free edges.
- Entire surface tin-plated.

Benefits:

- No hydrochloric acid-containing vapours in case of fire.
- **Fine stranded conductors can be inserted quickly** without individual wires being bent back.
- No reduction of cross section by bent wires.
- No insulation damage during crimping.
- The connecting materials do not break even when crimping on the soldered seam.

More from Page 90.

Meters to be **connected** *better.*



- Special designs for meter connection.

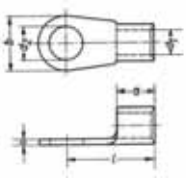
Benefits:

- The fork-type cable lugs can be connected to meters **quickly and simply**, even in tight areas.

More on Page 94.

We highly recommend indent crimping for solderless terminals and pin terminals to guarantee optimal hold. Specific information can be found in the cross references on the product pages.

Solderless terminals acc. to DIN - Cu



- Acc. to DIN 46234
- For conductors e.g. to VDE 0295 Class 2, 5 and 6
- Hard soldered in crimping area

Characteristics
- Total cross-section: 0.5 - 240 mm²
- With grooved profile for improved contact characteristics

Material
- Cu-ETP

Surface
- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info
- Now also available in handy plastic boxes for smaller requirements, part number appendix "SB"

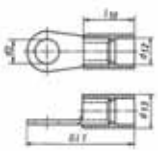
Nominal cross section mm²	Nominal size to DIN	Part No.	Dimension mm a	b	d1	d2	l	s	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
0.5 - 1	2.5 - 1	**162025**	5	6	1.6	2.8	11	0.8	0.060	100
	3 - 1	**16203**	5	6	1.6	3.2	11	0.8	0.060	100
	3.5 - 1	**162035**	5	6	1.6	3.7	11	0.8	0.055	100
	4 - 1	**16204**	5	8	1.6	4.3	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
	3.5 - 2.5	**163035**	5	6	2.3	3.7	11	0.8	0.065	100
	4 - 2.5	**16304**	5	8	2.3	4.3	12	0.8	0.080	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	15	2.3	10.5	17	0.8	0.160	100
	12 - 2.5	***163012**	5	18	2.3	13.0	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	0.240	100
	8 - 10	**16528**	8	14	4.5	8.4	20	1.1	0.290	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	0.430	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	26	1.2	0.580	100

Solderless terminals acc. to DIN - Cu

Nominal cross section mm²	Nominal size to DIN	Part No.	Dimension mm a	b	d1	d2	l	s	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
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	0.690	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	0.760	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	15	9.0	6.5	26	1.6	1.010	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	4.100	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

- * = not standardized
- ** = Also available in small handy packs
- 0.5 - 6 mm² not UL certificated
- **Tools: see chart page 97**

Insulated solderless terminals, Cu, Easy entry



- For conductors e.g. to VDE 0295 Class 2, 5 and 6
- High-quality brazing process in the crimp area

Characteristics

- Total cross-section: 10 - 150 mm²
- Insulation sleeve PA, halogen-free with easy-entry cable insertion
- Dimensions in tube according to DIN 46234
- With grooved profile for improved contact characteristics
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material

- Cu-ETP

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Nominal cross section mm²	Part No.	Colour	Dimension mm					weight 100 pcs. ~kg		Packing unit/ pcs
			d12	d13	d2	Gl1	l10	Cu	Total	
10	6525	red	6.7	8.6	5.3	34.0	19.0	0.27	0.27	100
	6526	red	6.7	8.6	6.5	34.0	19.0	0.24	0.28	100
	6528	red	6.7	8.6	8.4	37.5	19.0	0.29	0.33	100
	65210	red	6.7	8.6	10.5	41.5	19.0	0.34	0.38	100
	65212	red	6.7	8.6	13.0	45.5	19.0	0.42	0.46	100
16	6535	blue	7.7	9.6	5.3	39.5	20.5	0.39	0.44	100
	6536	blue	7.7	9.6	6.5	39.5	20.5	0.38	0.43	100
	6538	blue	7.7	9.6	8.4	41.5	20.5	0.43	0.48	100
	65310	blue	7.7	9.6	10.5	43.5	20.5	0.50	0.55	100
	65312	blue	7.7	9.6	13.0	50.5	20.5	0.58	0.63	100
25	6545	yellow	11.0	13.0	5.3	40.0	20.0	0.75	0.84	50
	6546	yellow	11.0	13.0	6.5	42.5	20.0	0.69	0.78	50
	6548	yellow	11.0	13.0	8.4	43.0	20.0	0.75	0.84	50
	65410	yellow	11.0	13.0	10.5	45.0	20.0	0.80	0.89	50
	65412	yellow	11.0	13.0	13.0	51.0	20.0	0.92	1.00	50
	65416	yellow	11.0	13.0	17.0	59.0	20.0	1.32	1.40	50
35	6556	red	12.7	15.0	6.5	44.0	22.5	1.01	1.14	50
	6558	red	12.7	15.0	8.4	44.5	22.5	0.98	1.10	50
	65510	red	12.7	15.0	10.5	46.5	22.5	1.00	1.12	50
	65512	red	12.7	15.0	13.0	52.5	22.5	1.26	1.38	50
	65516	red	12.7	15.0	17.0	54.5	22.5	1.55	1.67	50
50	6566	blue	15.4	18.0	6.5	54.5	27.5	1.65	1.90	50
	6568	blue	15.4	18.0	8.4	60.5	27.5	1.65	1.90	50
	65610	blue	15.4	18.0	10.5	60.5	27.5	1.60	1.85	50
	65612	blue	15.4	18.0	13.0	60.5	27.5	1.80	2.05	50
	65616	blue	15.4	18.0	17.0	67.5	27.5	2.10	2.35	50
70	6576	yellow	17.4	20.0	6.5	61.5	30.5	2.60	2.90	50
	6578	yellow	17.4	20.0	8.4	61.5	30.5	2.50	2.80	50
	65710	yellow	17.4	20.0	10.5	66.5	30.5	2.50	2.80	50
	65712	yellow	17.4	20.0	13.0	66.5	30.5	2.40	2.70	50
	65716	yellow	17.4	20.0	17.0	70.5	30.5	2.70	3.00	50
95	65810	red	20.5	23.5	10.5	70.0	34.0	4.10	4.50	25
	65812	red	20.5	23.5	13.0	70.0	34.0	3.90	4.40	25
	65816	red	20.5	23.5	17.0	76.0	34.0	4.10	4.50	25

Insulated solderless terminals, Cu, Easy entry

Nominal cross section mm²	Part No.	Colour	Dimension mm d12	d13	d2	Gl1	l10	weight 100 pcs. ~kg Cu	Total	Packing unit/ pcs
120	**65910**		23.5	26.7	10.5	79.0	36.0	5.60	6.10	25
	65912		23.5	26.7	13.0	82.0	36.0	5.40	5.90	25
	65916		23.5	26.7	17.0	90.0	36.0	5.80	6.30	25
150	**66010**		26.0	29.2	10.5	80.0	39.0	7.60	8.40	25
	66012		26.0	29.2	13.0	83.0	39.0	7.60	8.40	25
	66016		26.0	29.2	17.0	83.0	39.0	7.50	8.30	25

Tools: see chart page 99

Insulated pin terminals, Cu, Easy entry

- **For conductors e.g. VDE 0295 Class 2**
- **High-quality brazing process in the crimp area**

Characteristics

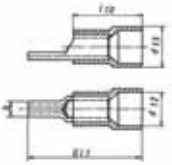
- Total cross-section: 10 - 95 mm²
- Insulation sleeve PA, halogen-free with easy-entry cable insertion
- With grooved profile for improved contact characteristics
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material

- Cu-ETP

Surface

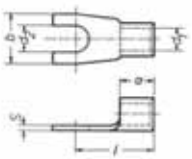
- Tin-plated to protect against corrosion (other surfaces available upon request)



Nominal cross section mm²	Part No.	Colour	Dimension mm b	d12	d13	Gl1	l10	Weight 100 pcs. ~kg Cu	Total	Packing unit/ pcs
10	**ST1716IS**		4.3	7.4	9.4	33.0	19.0	0.27	0.31	100
16	**ST1717IS**		5.5	8.6	10.6	38.0	20.0	0.39	0.44	100
25	**ST1718IS**		6.8	12.5	14.5	43.5	23.5	0.63	0.73	50
35	**ST1719IS**		8.0	14.0	16.4	51.5	27.5	1.17	1.34	50
50	**ST1720IS**		9.5	15.5	18.0	59.0	33.0	1.79	2.10	50
70	**ST1721IS**		11.0	18.0	20.5	69.0	38.0	2.92	3.20	50
95	**ST1722IS**		12.5	20.7	23.5	71.0	40.0	4.30	4.70	25

Tools: see chart page 99

Solderless terminals Cu, fork type



- Dimensions in tube to 6 mm² to DIN 46234
- Fork-type version for simple and direct screw mounting
- High-quality brazing process in the crimp area

Characteristics
- Total cross-section: 0.5 - 16 mm²
- With grooved profile for improved contact characteristics

Material
- Cu-ETP

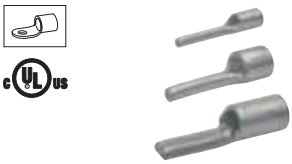
Surface
- Tin-plated to protect against corrosion (other surfaces available upon request)

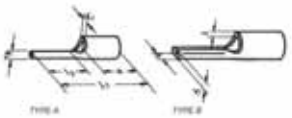
Nominal cross section mm²	Nominal size to DIN	Part No.	Dimension mm a	b	d1	d2	l	s	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
0.5 - 1	3 - 1	**1620C3**	5.0	6.0	1.6	3.2	11.0	0.8	0.060	100
	3.5 - 1	**1620C35**	5.0	6.0	1.6	3.7	11.0	0.8	0.060	100
	4 - 1	**1620C4**	5.0	6.8	1.6	4.3	12.0	0.8	0.070	100
	5 - 1	**1620C5**	5.0	10.0	1.6	5.3	13.0	0.8	0.090	100
	6 - 1	**1620C6**	5.0	11.0	1.6	6.5	15.0	0.8	0.080	100
1.5 - 2.5	3 - 2.5	**1630C3**	5.0	5.5	2.3	3.2	13.8	0.8	0.065	100
	3.5 - 2.5	**1630C35**	5.0	6.0	2.3	3.7	11.0	0.8	0.065	100
	4 - 2.5	**1630C4**	5.0	6.8	2.3	4.3	12.0	0.8	0.080	100
	5 - 2.5	**1630C5**	5.0	10.0	2.3	5.3	14.0	0.8	0.090	100
	6 - 2.5	**1630C6**	5.0	11.0	2.3	6.5	16.0	0.8	0.110	100
4 - 6	4 - 6	**1650C4**	6.0	8.0	3.6	4.3	14.0	1.0	0.140	100
	5 - 6	**1650C5**	6.0	10.0	3.6	5.3	15.0	1.0	0.160	100
	6 - 6	**1650C6**	6.0	11.0	3.6	6.5	16.0	1.0	0.170	100
	8 - 6	**1650C8**	6.0	14.0	3.6	8.4	19.0	1.0	0.220	100
10	5 - 10	**1652C5**	10.0	10.0	4.3	5.3	19.0	1.0	0.240	100
	6 - 10	**1652C6**	10.0	11.0	4.3	6.4	21.0	1.0	0.260	100
16	6 - 16	**1653C6**	11.5	11.0	5.4	6.4	24.0	1.0	0.350	100
	8 - 16	**1653C8**	11.5	15.0	5.4	8.4	27.0	1.0	0.420	100

- 0.5 - 6 mm² not UL certificated
- **Tools: see chart page 97**

Pin terminals acc. to DIN, Cu

- Nominal cross-sections 0.5 - 6 mm² to DIN 46230
- For conductors e.g. VDE 0295 Class 2
- High-quality brazing process in the crimp area





Characteristics

- Total cross-section: 0.5 - 95 mm²
- With grooved profile for improved contact characteristics

Material

- Cu-ETP

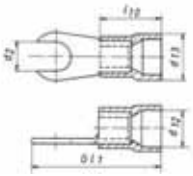
Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Nominal cross section mm²	Nominal size to DIN	Part No.	Typ	Dimension mm a	b	d1	d2	l1	l2	s	h	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.5 - 1	1	**ST1705**	A	5.0	--	1.8	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	6.7	--	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

- * = not standardized
- 0.5 - 6 mm² not UL certificated
- **Tools: see chart page 97**

Insulated terminals for meter connections, Cu, fork type



- Special design for meter connection
- Fork-type version for simple and direct screw mounting
- High-quality brazing process in the crimp area

Characteristics

- Total cross-section: 10 - 16 mm²
- No additional insulation of the crimped connection required
- With grooved profile for improved contact characteristics
- Insulation sleeve PA, halogen-free
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material

- Cu-ETP

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm²	Part No.	Colour	Dimension mm					Weight 100 pcs. ~kg		Packing unit/ pcs
			d12	d13	d2	Gl1	l10	Cu	Total	
10	**652C5**		7.0	9.6	5.3	33.5	19.0	0.24	0.28	100
	652C6		7.0	9.6	6.4	33.5	19.0	0.26	0.30	100
16	**653C6**		8.6	10.6	6.4	37.5	20.5	0.35	0.40	100

Tools: see chart page 99

Solderless connectors acc. to DIN, Cu, short type

- Acc. to DIN 46341 part 1, form A
- For conductors e.g. VDE 0295 Class 2, 5 and 6
- Ideal for connecting differing conductor cross-sections

Characteristics

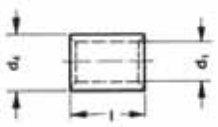
- Total cross-section: 0.5 - 150 mm²
- Precise end machining for easy cable insertion
- Annealed material optimises material and crimping properties

Material

- Copper acc. to EN 13600

Surface

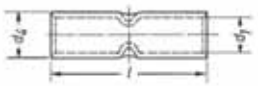
- Tin-plated to protect against corrosion (other surfaces available upon request)



Nominal cross section mm²	Nominal size to DIN	Part No.	Dimension mm d1	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.5 - 1	1	**1620K**	1.6	3.2	8	0.045	100
1.5 - 2.5	2.5	**1630K**	2.3	3.9	8	0.055	100
4 - 6	6	**1650K**	3.6	5.6	9	0.090	100
10	10	**1652K**	4.5	6.7	10	0.170	100
16	16	**1653K**	5.8	8.2	11	0.260	100
25	25	**1654K**	7.5	10.5	14	0.510	100
35	35	**1655K**	9.0	12.2	16	0.730	100
50	50	**1656K**	11.0	14.6	19	1.200	100
70	70	**1657K**	13.0	17.0	19	1.530	50
95	95	**1658K**	15.0	20.0	20	2.370	50
120	120	**1659K**	16.5	22.5	22	3.450	50
150	150	**1660K**	19.0	25.4	26	5.060	50

Tools: see chart page 97

Solderless connectors acc. to DIN, Cu, long type



- Acc. to DIN 46341 part 1, form B
- For conductors e.g. VDE 0295 Class 2, 5 and 6

Characteristics

- Total cross-section: 0.5 - 150 mm²
- With buttmarks for precise cable insertion
- Precise end machining for easy cable insertion
- Annealed material optimises material and crimping properties

Material

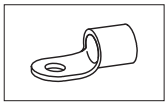
- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Nominal cross section mm²	Nominal size to DIN	Part No.	Dimension mm d1	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.5 - 1	1	**1620L**	1.6	3.2	15	0.08	100
1.5 - 2.5	2.5	**1630L**	2.3	3.9	15	0.10	100
4 - 6	6	**1650L**	3.6	5.6	15	0.19	100
10	10	**1652L**	4.5	6.7	21	0.36	100
16	16	**1653L**	5.8	8.2	26	0.62	100
25	25	**1654L**	7.5	10.5	29	1.11	100
35	35	**1655L**	9.0	12.2	32	1.50	100
50	50	**1656L**	11.0	14.6	38	2.44	100
70	70	**1657L**	13.0	17.0	42	3.54	50
95	95	**1658L**	15.0	20.0	48	5.87	50
120	120	**1659L**	16.5	22.5	52	8.46	50
150	150	**1660L**	19.0	25.4	56	10.86	50

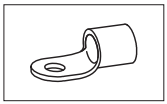
Tools: see chart page 97



Tool application chart

**Solderless terminals to DIN 46234,
pin terminals to DIN 46230,
solderless connectors to DIN 46341, part 1**

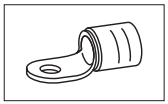
Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
0.5-6	K13		•							240
0.5-10	K50			•						259
	EK50ML			•						278
	EK1550					•				308
	EK1550G					•				310
0.5-16	K25		•							242
0.75-2.5	KP1	+KP232		•						256
	KP1L	+KP232		•						256
	EKP1	+KP232				•				312
	TEKP1	+KP232		•						281
	KPM15	+KP232		•						282
4-10	KP1	+KP242		•						256
	KP1L	+KP242		•						256
	EKP1	+KP242				•				312
	TEKP1	+KP242		•						281
	KPM15	+KP242		•						282
10-35	K354			•						260
	EK354					•				314
	EK354L					•				316
10-50	EK505L					•				318
10-70	K18			•						262
	HK6018				•					286
	EK5018L					•				320
	PK18							•		362
	THK18						•			362
	HK60UNV	+ UA18			•					354
	EK60UNVL	+ UA18				•				357
	EKM60UNVL	+ UA18				•				356
	PK60UNV	+ UA18						•		355
	K22			•						264
	HK6022				•					288
	EK6022L					•				324
	EKM6022L					•				322
	PK22							•		364
	THK22						•			364
	HK60UNV	+ UA22			•					354
	EK60UNVL	+ UA22				•				357
	EKM60UNVL	+ UA22				•				356
	PK60UNV	+ UA22						•		355
10-240	EKM60IDL					•				328



Tool application chart

**Solderless terminals to DIN 46234,
pin terminals to DIN 46230,
solderless connectors to DIN 46341, part 1**

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
16-95	K95		•							242
	TK95		•							243
16-150	HK12030				•					292
	HK12042				•					294
	HK120U				•					296
	EK12030L					•				330
	EK12042L					•				332
	EK120UL					•				334
	EK120UNVL					•				358
	HK122EL380						•			390
	PK12042							•		368
	PK120U							•		370
16-240	HK252						•			388
	HK252EL380						•			391
	PK252							•		372

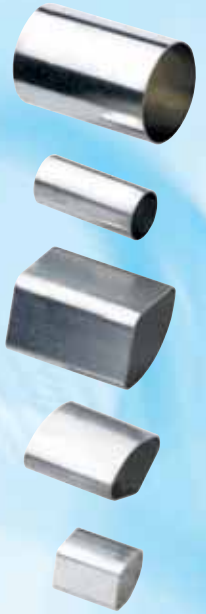


Tool application chart

Insulated solderless terminals
Insulated pin terminals

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
10-16	K16		•						⬭	234
	K50			•					⬭	259
	EK50ML			•					⬭	278
	K354			•					⬭	260
	EK1550					•			⬭	308
	EK1550G					•			⬭	310
	EK354					•			◡	314
	EK354L					•			◡	316
10-50	K18			•					◡	262
	HK6018				•				◡	286
	EK5018L					•			◡	320
	PK18							•	◡	362
	THK18						•		◡	362
	HK60UNV	+ UA18			•				◡	354
	EK60UNVL	+ UA18				•			◡	357
	EKM60UNVL	+ UA18				•			◡	356
	PK60UNV	+ UA18						•	◡	355
10-70	K22			•					◡	264
	HK6022				•				◡	288
	EK6022L					•			◡	324
	EKM6022L					•			◡	322
	PK22							•	◡	364
	THK22						•		◡	364
	HK60UNV	+ UA22			•				◡	354
	EK60UNVL	+ UA22				•			◡	357
	EKM60UNVL	+ UA22				•			◡	356
	PK60UNV	+ UA22						•	◡	355
10-95	HK12030				•				◡	292
	HK12042				•				◡	294
	HK120U				•				◡	296
	EK12030L					•			◡	330
	EK12042L					•			◡	332
	EK120UL					•			◡	334
	EK120UNVL					•			◡	358
	PK12042							•	◡	368
	PK120U							•	◡	370
10-150	HK252						•		◡	388
	PK252							•	◡	372

Brings compacted conductors to volume.



Sleeves for copper compacted round conductors and sector-shaped conductors.

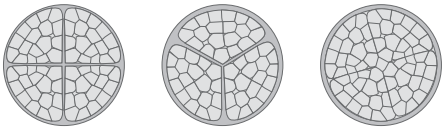
With the same nominal cross-section, the diameters of compacted round conductors are narrower than those of uncompacted round conductors. This causes problems with cable assembly, since the corresponding cable lug or connector cannot be fitted as specified in the standards.

Problems occur with sector shaped conductors when round connecting material is applied to sector shaped conductors. Often, both cable lugs and connectors are damaged - or the conductors break. The conductors can be crimped round using sleeves for sector-shaped conductors, making them easier to process.

Round-crimping sector sleeves in three steps.

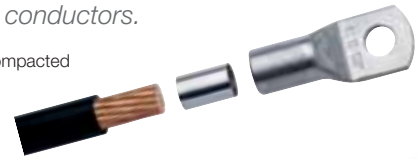
- **For cables with compacted round conductors.**
- **For 3 core sector-shaped cables (120° angle).**
- **For 4 core sector-shaped cables (90° angle).**

The appropriate cable types for our sleeves in cross section:

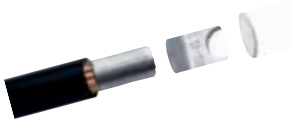


4 core sector-shaped cables | *3 core sector-shaped cables* | *compacted round conductors*

A nice piece of work *for compacted conductors.*



- **Sleeves for cross section compensation** on cables with compacted conductors with nominal cross sections up to 400 mm².
- For copper tubular and compression cable lugs and connectors.



Benefits:

- Connecting materials can be efficiently crimped onto compacted conductors using Klauke crimping tools - faulty connections are impossible.
- Existing crimping tools can be used. Storing of additional connecting materials or expensive special solutions is not necessary.

Bringing sector-shaped conductors into the right form.

- Sleeves for sector-shaped conductors with nominal cross sections up to 240 mm².
- For 3 and 4 sector-shaped conductors with angles of 120° and 90° respectively.

Benefits:

- 3 and 4 sector-shaped conductors with nominal cross sections up to 240 mm² can be crimped round without breaking and then processed using standard connecting materials.
- No special cable lugs or special tools are required.

▸ *More from Page 104.*

- ***To guarantee optimum hold of sleeves for compacted or sector-shaped conductors and connecting materials, the sleeves must be crimped onto the conductors using pre-rounding dies.***

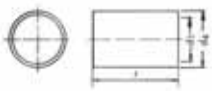
  The connecting material can then be crimped in the usual manner.

- ***As well as the sleeve applications for tubular cable lugs in the standard version as shown, we also offer a new series of cable lugs called "blue connection®" without the use of sleeves.***

▸ *More from Page 24.*

blue connection®

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



- **For multi-stranded, compacted conductors e.g. VDE 0295 Class 2**
- **Allows the use of Klauke tubular cable lugs and connectors, standard type for compacted conductors**

Characteristics

- Total cross-section: 16 - 400 mm²
- Annealed material optimises material and crimping properties

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm²	Part No.	Dimension mm d1	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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

Please observe instructions in technical appendix on page i-7

Sleeves for compacted conductors, for tubular compression cable lugs and connectors DIN type

- For multi-stranded, compacted conductors e.g. VDE 0295 Class 2
- Allows the use of Klauke DIN compression cable lugs and connectors for compacted conductors

Characteristics

- Total cross-section: 16 - 400 mm²
- Annealed material optimises material and crimping properties

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm²	Part No.	Dimension mm d1	d4	l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
16	**VHD16**	5.0	5.3	16	0.035	100
25	**VHD25**	6.4	6.7	16	0.043	100
35	**VHD35**	7.7	8.2	17	0.094	100
50	**VHD50**	9.0	9.5	23	0.151	50
70	**VHD70**	10.6	11.2	24	0.219	50
95	**VHD95**	12.4	13.0	28	0.298	50
120	**VHD120**	13.9	14.5	30	0.357	50
150	**VHD150**	15.4	16.0	30	0.395	25
185	**VHD185**	17.6	18.2	38	0.579	25
240	**VHD240**	19.9	20.5	38	0.645	25
300	**VHD300**	22.4	23.0	48	0.913	5
400	**VHD400**	25.4	26.2	58	1.692	5

Please observe instructions in technical appendix on page i-7

Sleeves for sector-shaped conductors, 3-core cable

- For tubular cable lugs and connectors, standard version and DIN compression cable lugs and connectors
- To simplify pre-rounding of 3-conductor cables (120° angle)
- Prevents sector shaped conductors from splicing during pre-rounding

Characteristics

- Total cross-section: 35 - 240 mm²
- Annealed material optimises material and crimping properties

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm²	Part No.	Dimension mm l	Weight/ 100 pcs. ~ kg	Packing unit/pcs
Standard type				
35	**VHR353**	14	0.08	100
50	**VHR503**	17	0.17	50
70	**VHR703**	18	0.29	50
95	**VHR953**	22	0.45	50
120	**VHR1203**	23	0.49	50
150	**VHR1503**	25	0.58	25
185	**VHR1853**	25	0.80	25
240	**VHR2403**	30	1.04	25
DIN version				
35	**VHD353**	17.5	0.11	100
50	**VHD503**	25.0	0.26	50
70	**VHD703**	25.0	0.39	50
95	**VHD953**	32.0	0.66	50
120	**VHD1203**	32.0	0.68	50
150	**VHD1503**	32.0	0.74	25
185	**VHD1853**	35.0	1.13	25
240	**VHD2403**	35.0	1.22	25

Pre-rounding dies see chapter "Crimping dies"
Please observe instructions in technical appendix on page i-7

Sleeves for sector-shaped conductors, 4-core cable

- For tubular cable lugs and connectors, standard version and DIN compression cable lugs and connectors
- To simplify pre-rounding of 4-conductor cables (90° angle)
- Prevents sector shaped conductors from splicing during pre-rounding

Characteristics

- Total cross-section: 35 - 240 mm²
- Annealed material optimises material and crimping properties

Material

- Copper acc. to EN 13600

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm²	Part No.	Dimension mm 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

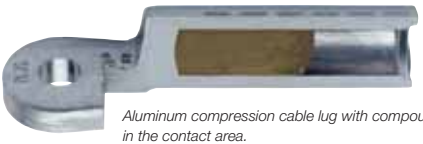
Please observe instructions in technical appendix on page i-7
Pre-rounding dies see chapter "Crimping dies"

Aluminum
Optimised connections.

Aluminum compression cable lugs and connectors to DIN.

Due to their significantly lower weight, aluminum conductors are becoming increasingly popular in power distribution applications.

The material structure is very different to copper. That's why appropriate cable lugs and connectors are required. Connecting material for aluminum comes with a special compound. During crimping this compound destroys the non-conductive oxide layer of aluminum in the crimping area, allowing a perfect electrical connection.



Aluminum compression cable lug with compound in the contact area.

Aluminum compression cable lugs are frequently used in power distribution.

- **Aluminum cable lugs with DIN dimensions up to 500 mm².**
- **Compression cable lugs with barrier to DIN 46239.**
- **Compression joints to DIN 46267, Part 2.**
- **Compression joints for medium-voltage applications up to 30 kV.**
- **Tin-plated version for connecting to copper rails.**

The right product for every **aluminum conductor.**

- Nominal cross sections up to 500 mm².
- **Barrier** type **with oil stop**.
- Tin-plated designs with 20 µm layer thickness.

Benefits:

- The Klauke range offers aluminum DIN compression cable lugs to suit every application.
- The quality tin plating ensures connections to copper in a dry environment.

A **quality** *range.*

- Defined, **unique material properties** to Klauke standards.
- DIN-compliant dimensions.
- Consistent material thickness, precise diameters and an accurate fit mean optimised processing and ultimate safety.

Benefits:

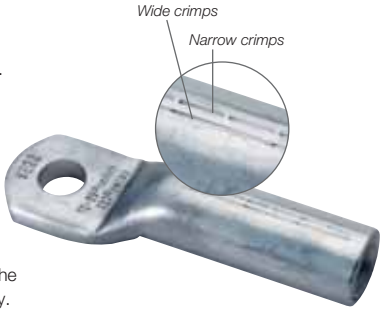
- When professionally installed, the connecting material ensures optimised stability even with mechanically stressed or severely vibrating connections.
- Less repair and maintenance thanks to safe connections.
- More applications, e.g. power distribution.

With **markings** *for the crimping operation.*

- All DIN compression cable lugs have markings for correct crimping.
- Markings **for narrow and wide crimps.**
- Al crimping dies designed for aluminum with larger contact areas than dies for copper connecting materials.

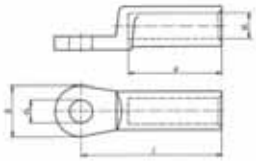
Benefits:

- You identify at a glance where and how often the connecting material has to be crimped. Errors are practically impossible.
- Dies with larger crimping width crimp wider areas of cable lugs to the conductor, thereby compensating for aluminum's lower conductivity.



The compound in aluminum compression cable lugs improves the contact properties by piercing the non-conductive oxide layer. The compound also prevents oxygen penetrating the contact points, avoiding re-oxidation.

Compression cable lugs acc. to DIN - Al



- Acc. to DIN 46329
- For non-tension connections of Al cables to DIN 48201, part 5 and aluminum cables to DIN EN 50182
- With code number for clear tool assignment
- Filled with contact grease for optimum crimp characteristics

Characteristics

- Total cross-section: 16 - 500 mm²
- Barrier design with oil stop
- Optional tin-plated (20 µm) version to connect dusty interior copper bus bars
- Precise end machining for easy cable insertion

Material

- E-Al

Surface

- Bright finished

Order info

- part number appendix for tinned version "v"

Nominal cross section mm²		Size of bolt			Dimension mm					Number of crimps		Weight/ 100 pcs.	Packing
rm/sm	se	dia.	Part No.	Code	a	b	d1	d2	l	mech.	hydr.	~ kg	unit/pcs
16	25	M 8	*263R8	12	30	20	5.8	8.4	50	4	2	1.20	4
	25	M 10	*263R10	12	30	20	5.8	10.5	50	4	2	1.20	4
25	35	M 8	264R8	12	30	25	6.8	8.4	50	4	2	1.30	4
	35	M 10	264R10	12	30	25	6.8	10.5	50	4	2	1.24	4
	35	M 12	264R12	12	30	25	6.8	13.0	50	4	2	1.22	4
35	50	M 8	265R8	14	42	25	8.0	8.4	62	5	2	2.50	4
	50	M 10	265R10	14	42	25	8.0	10.5	62	5	2	1.98	4
	50	M 12	265R12	14	42	25	8.0	13.0	62	5	2	2.50	4
50	70	M 8	266R8	16	42	25	9.8	8.4	62	5	2	2.75	4
	70	M 10	266R10	16	42	25	9.8	10.5	62	5	2	2.70	4
	70	M 12	266R12	16	42	25	9.8	13.0	62	5	2	2.65	4
70	95	M 8	267R8	18	52	25	11.2	8.4	72	6	3	3.45	4
	95	M 10	267R10	18	52	25	11.2	10.5	72	6	3	3.80	4
	95	M 12	267R12	18	52	25	11.2	13.0	72	6	3	3.35	4
95	120	M 10	268R10	22	56	25	13.2	10.5	75	6	3	6.90	4
	120	M 12	268R12	22	56	25	13.2	13.0	75	6	3	4.92	4
	120	M 16	*268R16	22	56	25	13.2	17.0	75	6	3	6.00	4
120	150	M 10	269R10	22	56	30	14.7	10.5	80	6	3	5.95	4
	150	M 12	269R12	22	56	30	14.7	13.0	80	6	3	5.84	4
	150	M 16	269R16	22	56	30	14.7	17.0	80	6	3	6.60	4
150	185	M 10	270R10	25	60	30	16.3	10.5	90	6	3	8.50	4
	185	M 12	270R12	25	60	30	16.3	13.0	90	6	3	7.73	4
	185	M 16	270R16	25	60	30	16.3	17.0	90	6	3	7.60	4
	185	M 20	*270R20	25	60	30	16.3	21.0	90	6	3	8.20	4
185	240	M 10	271R10	28	60	30	18.3	10.5	91	6	3	11.00	4
	240	M 12	271R12	28	60	30	18.3	13.0	91	6	3	9.88	4
	240	M 16	271R16	28	60	30	18.3	17.0	91	6	3	10.10	4
	240	M 20	*271R20	28	60	30	18.3	21.0	91	6	3	10.00	4
240	300	M 10	*272R10	32	70	38	21.0	10.5	103	8	3	15.50	4
	300	M 12	272R12	32	70	38	21.0	13.0	103	8	3	13.80	4
	300	M 16	272R16	32	70	38	21.0	17.0	103	8	3	13.48	4
	300	M 20	272R20	32	70	38	21.0	21.0	103	8	3	15.00	4

Compression cable lugs acc. to DIN - Al

Nominal cross section mm²		Size of bolt			Dimension mm					Number of crimps		Weight/ 100 pcs.	Packing
rm/sm	se	dia.	Part No.	Code	a	b	d1	d2	l	mech.	hydr.	~ kg	unit/pcs
300	--	M 12	**273R12**	34	70	38	23.3	13.0	103	8	3	17.60	1
	--	M 16	**273R16**	34	70	38	23.3	17.0	103	8	3	17.28	1
	--	M 20	**273R20**	34	70	38	23.3	21.0	103	8	3	17.40	1
400	--	M 12	**274R12**	38	73	38	26.0	13.0	116	--	4	38.00	1
	--	M 16	**274R16**	38	73	38	26.0	17.0	116	--	4	37.40	1
	--	M 20	**274R20**	38	73	38	26.0	21.0	116	--	4	40.20	1
500	--	M 12	**275R12**	44	79	44	29.0	13.0	122	--	4	43.70	1
	--	M 16	**275R16**	44	79	44	29.0	17.0	122	--	4	43.30	1
	--	M 20	**275R20**	44	79	44	29.0	21.0	122	--	4	43.00	1

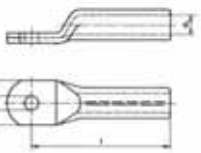
- * = not standardized
- sm/se - conductor needs to be pre-rounded
- sm = sector stranded
- rm = round multi-stranded
- se = sector solid
- **Tools: see chart page 118**

Compression cable lugs, Al

- **Tube dimension to DIN 46329**
- **Also for non-tension connections of Al cables to DIN 48201, part 5 and aluminum cables to DIN EN 50182**
- **With code number for clear tool assignment**
- **Filled with contact grease for optimum crimp characteristics**

Characteristics

- Total cross-section: 10 - 400 mm²
- For pre-rounded sm/se sector shaped conductors
- With crimp markings for correct crimping
- Precise end machining for easy cable insertion



Material

- E-Al

Surface

- Bright finished

Nominal cross section mm²		Size of bolt			Dimension mm				Number of crimps		Weight/ 100 pcs.	Packing
rm/sm	se	dia.	Part No.	Code	b	d1	d2	l	mech.	hydr.	~ kg	unit/pcs
10	--	M 6	**202R6**	10	16	5.0	6.5	52	4	2	0.86	25
	--	M 8	**202R8**	10	18	5.0	8.5	52	4	2	0.88	25
16	25		**203R8**	12	18	5.8	8.5	52	4	2	1.37	10
	25	M 10	**203R10**	12	18	5.8	10.5	52	4	2	1.39	10
25	35	M 8	**204R8**	12	18	6.8	8.5	60	4	2	1.41	10
	35	M 10	**204R10**	12	18	6.8	10.5	60	4	2	1.46	10
35	50		**205R10**	14	21	8.0	10.5	67	5	2	2.08	10
	50	M 12	**205R12**	14	21	8.0	13.0	67	5	2	2.05	10
50	70	M 10	**206R10**	16	25	9.8	10.5	72	5	2	2.68	10
	70	M 12	**206R12**	16	25	9.8	13.0	72	5	2	2.73	10
70	95	M 10	**207R10**	18	28	11.2	10.5	86	6	3	4.42	10
	95	M 12	**207R12**	18	28	11.2	13.0	86	6	3	4.27	10
95	120	M 10	**208R10**	22	32	13.2	10.5	90	6	3	7.40	4
	120	M 12	**208R12**	22	32	13.2	13.0	90	6	3	7.50	4
	120	M 16	**208R16**	22	34	13.2	17.0	90	6	3	7.30	4

Compression cable lugs, Al

Nominal cross section mm²		Size of bolt			Dimension mm				Number of crimps		Weight/ 100 pcs.	Packing
rm/sm	se	dia.	Part No.	Code	b	d1	d2	l	mech.	hydr.	~ kg	unit/pcs
120	150	M 12	**209R12**	22	32	14.7	13.0	91	6	3	6.68	4
	150	M 16	**209R16**	22	34	14.7	17.0	91	6	3	6.41	4
150	185	M 12	**210R12**	25	35	16.3	13.0	103	6	3	9.64	4
	185	M 16	**210R16**	25	35	16.3	17.0	103	6	3	9.24	4
	185	M 20	**210R20**	25	41	16.3	21.0	103	6	3	9.40	4
185	240	M 12	**211R12**	28	40	18.3	13.0	106	6	3	12.61	1
	240	M 16	**211R16**	28	40	18.3	17.0	106	6	3	11.92	1
	240	M 20	**211R20**	28	40	18.3	21.0	106	6	3	13.10	1
240	300	M 12	**212R12**	32	45	21.0	13.0	116	8	3	18.30	1
	300	M 16	**212R16**	32	45	21.0	17.0	116	8	3	17.60	1
	300	M 20	**212R20**	32	45	21.0	21.0	116	8	3	17.30	1
300	--	M 16	**213R16**	34	49	23.3	17.0	124	8	3	17.50	1
	--	M 20	**213R20**	34	49	23.3	21.0	124	8	3	17.30	1
400	--	M 16	**214R16**	38	58	26.0	17.0	165	--	4	32.20	1
	--	M 20	**214R20**	38	58	26.0	21.0	165	--	4	31.90	1

- sm/se - conductor needs to be pre-rounded
- sm = sector stranded
- rm = round multi-stranded
- se = sector solid
- 16-400 mm² IEC tested
- **Tools: see chart page 118**

Compression joints acc. to DIN, Al

Al

IEC

- **Acc. to DIN 46267, part 2**
- **Also for non-tension connections of aluminum conductors DIN EN 50182**
- **With code number for clear tool assignment**
- **Filled with contact grease for optimum crimp characteristics**

Characteristics

- Total cross-section: 10 - 500 mm²
- For pre-rounded sm/se sector shaped conductors
- With crimp markings for correct crimping
- Precise end machining for easy cable insertion

Material

- E-Al

Surface

- Bright finished

Nominal cross section mm²				Dimension mm		Number of crimps		Weight/ 100 pcs.	
rm/sm	se	Part No.	Code	d1	l	mech.	hydr.	~ kg	Packing unit/pcs
10	--	***222R**	10	5.0	55	3/3	--	0.95	10
16	25	***223R**	12	5.8	55	3/3	--	1.40	10
25	35	**224R**	12	6.8	70	4/4	2/2	1.60	10
35	50	**225R**	14	8.0	85	5/5	2/2	2.60	10
50	70	**226R**	16	9.8	85	5/5	2/2	3.20	10
70	95	**227R**	18	11.2	105	6/6	3/3	5.30	10
95	120	**228R**	22	13.2	105	6/6	3/3	7.60	10
120	150	**229R**	22	14.7	105	6/6	3/3	7.80	10
150	185	**230R**	25	16.3	125	6/6	3/3	10.70	10
185	240	**231R**	28	18.3	125	6/6	3/3	14.30	5
240	300	**232R**	32	21.0	145	8/8	3/3	20.30	5

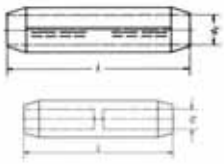
Compression joints acc. to DIN, Al

Nominal cross section mm²				Dimension mm		Number of crimps		Weight/ 100 pcs.	
rm/sm	se	Part No.	Code	d1	l	mech.	hydr.	~ kg	Packing unit/pcs
300	--	**233R**	34	23.3	145	8/8	3/3	22.20	1
400	--	**234R**	38	26.0	210	--	5/5	40.80	1
500	--	**235R**	44	29.0	210	--	5/5	56.00	1

- * = not standardized
- sm/se - conductor needs to be pre-rounded
- sm = sector stranded
- rm = round multi-stranded
- se = sector solid
- 16-500 mm² IEC tested
- **Tools: see chart page 118**

Compression joints, Al

- **Tube dimension to DIN 46267, part 2**
- **For non-tension connections of medium-voltage aluminum cable 10-30 kV**
- **With code number for clear tool assignment**
- **Filled with contact grease for optimum crimp characteristics**



Characteristics

- Total cross-section: 35 - 400 mm²
- Also available as barrier design with oil stop
- With bevelled edges for reduced winding expenditure for the assembly
- With crimp markings for correct crimping
- Precise end machining for easy cable insertion

Material

- E-Al

Surface

- Bright finished

Nominal cross section mm²				Dimension mm		Number of crimps		Weight/ 100 pcs.	
rm/sm	se	Part No.	Code	d1	l	mech.	hydr.	~ kg	Packing unit/ pcs
Standard version									
35	50	**405R**	14	8.20	90	4/4	2/2	2.7	10
50	70	**406R**	16	10.00	90	4/4	2/2	3.4	10
70	95	**407R**	18	11.50	95	4/4	2/2	4.6	10
95	120	**408R**	22	13.50	100	4/4	2/2	6.8	10
120	150	**409R**	22	15.00	105	4/4	2/2	7.4	10
150	185	**410R**	25	16.50	105	4/4	2/2	8.7	10
185	240	**411R**	28	18.50	125	5/5	2/2	13.4	5
240	300	**412R**	32	21.30	125	5/5	2/2	15.7	5
300	--	**413R**	34	23.60	125	5/5	2/2	16.3	1
400	--	**414R**	38	26.25	150	--	3/3	25.8	1
Barrier version									
35	50	**415R**	14	8.0	95	4/4	2/2	3.1	5
50	70	**416R**	16	9.8	95	4/4	2/2	5.6	5
70	95	**417R**	18	11.2	100	4/4	2/2	6.1	5
95	120	**418R**	22	13.2	105	4/4	2/2	9.2	5
120	150	**419R**	22	14.7	110	4/4	2/2	10.3	5
150	185	**420R**	25	16.3	110	4/4	2/2	12.0	5
185	240	**421R**	28	18.3	130	5/5	2/2	15.6	5
240	300	**422R**	32	21.0	130	5/5	2/2	19.1	5
300	--	**423R**	34	23.3	135	5/5	2/2	30.7	1
400	--	**424R**	38	26.0	165	--	3/3	30.0	1

- sm/se - conductor needs to be pre-rounded
- sm = sector stranded
- rm = round multi-stranded
- se = sector solid
- **Tools: see chart page 118**

Reduction compression joints, Al, barrier design

- In nominal cross-section area tube dimension to DIN 46267, part 2
- For non-tension connections of medium-voltage aluminum cable 10-30 kV
- Ideal for connecting differing conductor cross-sections
- Filled with contact grease for optimum crimp characteristics
- With bevelled edges for reduced winding expenditure for the assembly

Characteristics

- Total cross-section: 35 - 400 mm²
- Barrier design with oil stop
- With code number for clear tool assignment
- With crimp markings for correct crimping
- Precise end machining for easy cable insertion

Material

- E-Al

Surface

- Bright finished

Nominal cross section rm/sm				Dimension mm			Number of crimps		Weight/ 100 pcs.	Packing unit/
from	to	Part No.	Code	d1	d2	l	mech.	hydr.	~ kg	pcs
35	25	**425R25**	14	8.0	6.8	95	4/4	2/2	2.800	5
50	25	**426R25**	16	9.8	6.8	95	4/4	2/2	3.630	5
	35	**426R35**	16	9.8	8.0	95	4/4	2/2	3.450	5
70	25	**427R25**	18	11.2	6.8	100	4/4	2/2	4.975	5
	35	**427R35**	18	11.2	8.0	100	4/4	2/2	4.790	5
	50	**427R50**	18	11.2	9.8	100	4/4	2/2	4.420	5
95	25	**428R25**	22	13.2	6.8	105	4/4	2/2	8.200	5
	35	**428R35**	22	13.2	8.0	105	4/4	2/2	8.000	5
	50	**428R50**	22	13.2	9.8	105	4/4	2/2	7.600	5
	70	**428R70**	22	13.2	11.2	105	4/4	2/2	7.350	5
120	25	**429R25**	22	14.7	6.8	110	4/4	2/2	8.000	5
	35	**429R35**	22	14.7	8.0	110	4/4	2/2	7.800	5
	50	**429R50**	22	14.7	9.8	110	4/4	2/2	7.380	5
	70	**429R70**	22	14.7	11.2	110	4/4	2/2	7.100	5
	95	**429R95**	22	14.7	13.2	110	4/4	2/2	6.550	5
150	25	**430R25**	25	16.3	6.8	110	4/4	2/2	10.700	5
	35	**430R35**	25	16.3	8.0	110	4/4	2/2	10.500	5
	50	**430R50**	25	16.3	9.8	110	4/4	2/2	10.100	5
	70	**430R70**	25	16.3	11.2	110	4/4	2/2	9.800	5
	95	**430R95**	25	16.3	13.2	110	4/4	2/2	9.500	5
	120	**430R120**	25	16.3	14.7	110	4/4	2/2	8.650	5
185	25	**431R25**	28	18.3	6.8	130	--	2/2	16.120	5
	35	**431R35**	28	18.3	8.0	130	--	2/2	15.875	5
	50	**431R50**	28	18.3	9.8	130	--	2/2	15.400	5
	70	**431R70**	28	18.3	11.2	130	--	2/2	15.050	5
	95	**431R95**	28	18.3	13.2	130	--	2/2	14.400	5
	120	**431R120**	28	18.3	14.7	130	5/5	2/2	13.700	5
	150	**431R150**	28	18.3	16.3	130	5/5	2/2	13.050	5

Reduction compression joints, Al, barrier design

Nominal cross section rm/sm				Dimension mm			Number of crimps		Weight/ 100 pcs.	Packing unit/
from	to	Part No.	Code	d1	d2	l	mech.	hydr.	~ kg	pcs
240	25	**432R25**	32	21.0	6.8	130	--	2/2	21.200	5
	35	**432R35**	32	21.0	8.0	130	--	2/2	20.950	5
	50	**432R50**	32	21.0	9.8	130	--	2/2	20.470	5
	70	**432R70**	32	21.0	11.2	130	--	2/2	20.120	5
	95	**432R95**	32	21.0	13.2	130	--	2/2	19.460	5
	120	**432R120**	32	21.0	14.7	130	--	2/2	18.800	5
	150	**432R150**	32	21.0	16.3	130	5/5	2/2	18.125	5
	185	**432R185**	32	21.0	18.3	130	5/5	2/2	17.275	5
300	150	**433R150**	34	23.3	16.3	135	5/5	2/2	21.100	1
	185	**433R185**	34	23.3	18.3	135	5/5	2/2	20.120	1
	240	**433R240**	34	23.3	21.0	135	5/5	2/2	18.730	1
400	185	**434R185**	38	26.0	18.3	165	--	3/3	34.700	1
	240	**434R240**	38	26.0	21.0	165	--	3/3	32.900	1
	300	**434R300**	38	26.0	23.3	165	--	3/3	31.200	1

- sm/se - conductor needs to be pre-rounded
- sm = sector stranded
- rm = round multi-stranded
- se = sector solid
- **Tools: see chart page 118**

Reduction compression joints, Al

- In nominal cross-section area tube dimension to DIN 46267, part 2
- For non-tension connections of aluminum conductors to DIN EN 50182
- With code number for clear tool assignment
- Filled with contact grease for optimum crimp results

Characteristics

- Total cross-section: 16 - 240 mm²
- For connecting different conductor cross-sections
- Also for pre-rounded sector shaped conductors
- With crimp markings for correct crimping
- Precise end machining for easy cable insertion

Material

- E-Al

Surface

- Bright finished

Nominal cross section rm/sm				Dimension mm			Number of crimps		Weight/ 100 pcs.	Packing unit/
from	to	Part No.	Code	d1	d2	l	mech.	hydr.	~ kg	pcs
25	16	**284R16**	12	7.0	5.8	75	4/4	2/2	1.53	10
35	25	**285R25**	14	8.2	6.8	90	5/5	2/2	2.50	10
50	25	**286R25**	16	10.0	6.8	90	5/5	2/2	3.24	10
50	35	**286R35**	16	10.0	8.0	90	5/5	2/2	3.09	10
70	25	**287R25**	18	11.5	6.8	110	6/6	3/3	5.50	10
70	35	**287R35**	18	11.5	8.0	110	6/6	3/3	5.35	10
70	50	**287R50**	18	11.5	9.8	110	6/6	3/3	4.96	10
95	25	**288R25**	22	13.5	6.8	110	6/6	3/3	9.10	10
95	35	**288R35**	22	13.5	8.0	110	6/6	3/3	8.90	10
95	50	**288R50**	22	13.5	9.8	110	6/6	3/3	8.51	10
95	70	**288R70**	22	13.5	11.2	110	6/6	3/3	8.15	10
120	25	**289R25**	22	15.0	6.8	110	6/6	3/3	8.62	10
120	35	**289R35**	22	15.0	8.0	110	6/6	3/3	8.43	10
120	50	**289R50**	22	15.0	9.8	110	6/6	3/3	8.04	10
120	70	**289R70**	22	15.0	11.2	110	6/6	3/3	7.66	10
120	95	**289R95**	22	15.0	13.2	110	6/6	3/3	7.14	10
150	35	**290R35**	25	16.5	8.0	130	6/6	3/3	12.59	10
150	50	**290R50**	25	16.5	9.8	130	6/6	3/3	12.12	10
150	70	**290R70**	25	16.5	11.2	130	6/6	3/3	11.70	10
150	95	**290R95**	25	16.5	13.2	130	6/6	3/3	11.05	10
150	120	**290R120**	25	16.5	14.7	130	6/6	3/3	10.49	10
185	120	**291R120**	28	18.5	14.7	130	6/6	3/3	13.80	5
185	150	**291R150**	28	18.5	16.3	130	6/6	3/3	13.19	5
240	95	**292R95**	32	21.3	13.2	150	--	3/3	22.24	5
240	120	**292R120**	32	21.3	14.7	150	--	3/3	21.59	5
240	150	**292R150**	32	21.3	16.3	150	--	3/3	20.87	5

- sm/se - conductor needs to be pre-rounded
- sm = sector stranded
- rm = round multi-stranded
- se = sector solid
- **Tools: see chart page 118**

Compression joints acc. to DIN, Al, full tension

- Acc. to DIN 48085, part 2
- For full tension connections of aluminum conductors to DIN EN 50182
- With code number for clear tool assignment
- Filled with contact grease for optimum crimp results

Characteristics
- Total cross-section: 16 - 300 mm²
- With crimp markings for correct crimping
- Precise end machining for easy cable insertion

Material
- E-Al to 95 mm²
- AlMgSi 1w from 120 mm²

Surface
- Bright finished

Nominal cross section mm²	Part No.	Code	Dimension mm d1	d4	l	Number of crimps mech.	hydr.	Conductor dia. mm	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
16	***243R**	12	5.8	12.0	140	8/8	4/4	5.1	3.4	10
25	**244R**	12	6.8	12.0	140	8/8	4/4	6.3	2.9	10
35	**245R**	14	8.0	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

- * = not standardized
- **Tools: see chart page 118**

Compression joints, Al, full tension

- For full tension connections of Aldrey cables according to DIN EN 50182
- With code number for clear tool assignment
- Filled with contact grease for optimum crimp characteristics

Characteristics
- Total cross-section: 25 - 95 mm²
- With buttmarks for precise cable insertion
- Tube dimensions matched to aluminum steel cables
- With crimp markings for correct crimping

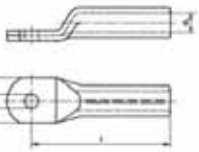
Material
- AlMgSi F20

Surface
- Bright finished

Nominal cross section mm²	Part No.	Code	Dimension mm d1	l	Number of crimps mech.	hydr.	Conductor dia. mm	Weight/ 100 pcs. ~ kg	Packing unit/pcs
25	**294AD**	12	6.8	140	8/8	--	6.3	3.4	5
35	**295AD**	14	8.0	140	8/8	--	7.5	4.7	5
50	**296AD**	16	10.0	155	8/8	--	9.0	5.9	5
70	**297AD**	18	11.5	165	8/8	--	10.5	9.0	5
95	**298AD**	20	13.5	165	10/10	5/5	12.5	10.2	5

- **Tools: see chart page 120**

Compression cable lugs, Al/St, full tension



- Tube dimension matched to aluminum steel cables
- For full tension connections of Aldrey cables according to DIN EN 50182
- With code number for clear tool assignment
- Filled with contact grease for optimum crimp characteristics

Characteristics

- Total cross-section: 4 - 120 mm²
- With crimp markings for correct crimping
- Precise end machining for easy cable insertion

Material

- E-Al

Surface

- Bright finished

Nominal cross section mm²	Size of bolt dia.	Part No.	Code	Dimension mm b	d1	d2	l	Conductor dia. mm	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
25 - 4	M 8	**254R8**	12	19	7.6	8.5	60	6.8	1.5	5
	M 10	**254R10**	12	19	7.6	10.5	60	6.8	1.5	5
	M 12	**254R12**	12	23	7.6	13.0	60	6.8	1.6	5
35 - 6	M 10	**255R10**	14	21	9.0	10.5	67	8.1	2.0	5
	M 12	**255R12**	14	21	9.0	13.0	67	8.1	2.2	5
50 - 8	M 10	**256R10**	16	22	10.8	10.5	72	9.6	2.5	5
	M 12	**256R12**	16	24	10.8	13.0	72	9.6	2.6	5
	M 16	**256R16**	16	26	10.8	17.0	72	9.6	2.7	5
70 - 12	M 10	**257R10**	18	26	12.5	10.5	86	11.7	4.1	5
	M 12	**257R12**	18	26	12.5	13.0	86	11.7	4.3	5
	M 16	**257R16**	18	32	12.5	17.0	86	11.7	4.4	5
95 - 15	M 12	**258R12**	22	31	14.8	13.0	91	13.6	7.8	5
	M 16	**258R16**	22	33	14.8	17.0	91	13.6	6.6	5
120 - 20	M 12	**259R12**	25	37	16.5	13.0	103	15.5	9.8	5
	M 16	**259R16**	25	37	16.5	17.0	103	15.5	10.0	5
	M 20	**259R20**	25	41	16.5	21.0	103	15.5	10.1	5

Tools: see chart page 120

Compression joints, Al/St, for non-tension connections

- For non-tension connections of Al/St cables to DIN EN 50182
- With code number for clear tool assignment
- Filled with contact grease for optimum crimp results

Al/St

Characteristics
- Total cross-section: 4 - 120 mm²
- With buttmarks for precise cable insertion
- With crimp markings for correct crimping
- Precise end machining for easy cable insertion

Material
- E-Al

Surface
- Bright finished

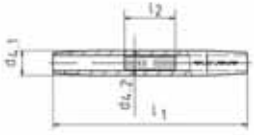
Nominal cross section mm²	Part No.	Code	Dimension mm d1	Dimension mm l	Number of crimps mech.	Number of crimps hydr.	Conductor dia. mm	Weight/ 100 pcs. ~ kg	Packing unit/pcs
25 - 4	**444R**	12	7.6	70	4/4	2/2	6.8	1.65	5
35 - 6	**445R**	14	9.0	85	5/5	2/2	8.1	2.75	5
50 - 8	**446R**	16	10.8	85	5/5	2/2	9.6	3.70	5
70 - 12	**447R**	18	12.5	105	6/6	3/3	11.7	5.20	5
95 - 15	**448R**	22	14.8	105	6/6	3/3	13.6	8.60	5
120 - 20	**449R**	25	16.5	125	6/6	3/3	15.5	12.20	5

Tools: see chart page 121

Compression joints acc. to DIN, Al/St

- Acc. to DIN 48085, part 3
- For full tension connections of Al/St conductors to DIN EN 50182
- With code number for clear tool assignment
- Filled with contact grease for optimum crimp results

Al/St



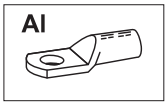
Characteristics
- Total cross-section: 4 - 120 mm²
- With crimp markings for correct crimping
- Precise end machining for easy cable insertion

Material
- Al sleeve: E-Al
- St sleeve: St 52

Surface
- Al sleeve: bright
- St sleeve: hot galvanized

Nominal cross section mm²	Part No.	Code	Dimension mm d4.1	Dimension mm d4.2	Dimension mm l1	Dimension mm l2	Code Al	Number of crimps Steel mech.	Number of crimps Steel hydr.	Number of crimps Al mech.	Number of crimps Al hydr.	Conductor dia. mm	Weight/ 100 pcs. ~ kg	Packing unit/pcs
25 - 4	**454R**	6	12.0	6.3	200	65	12	4/4	--	7/7	--	6.8	5	5
35 - 6	**455R**	6	14.0	6.3	235	75	14	5/5	--	8/8	--	8.1	7	5
50 - 8	**456R**	7	16.0	7.5	270	95	16	6/6	--	9/9	--	9.6	11	5
70 - 12	**457R**	9	18.5	9.5	270	95	18	6/6	--	9/9	--	11.7	15	5
95 - 15	**458R**	9	22.5	9.6	310	95	22	6/6	--	11/11	--	13.6	23	5
120 - 20	**459R**	13	25.0	13.0	380	110	25	7/7	4/4	13/13	6/6	15.5	36	5

Tools: see chart page 121



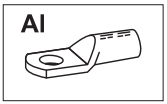
Tool application chart

Compression cable lugs and connectors made from E-Al

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

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
10-70	K354			•					⬡	260
	EK354					•			⬡	314
	EK354L					•			⬡	316
10-150	EK505L					•			⬡	318
10-185	K18			•					⬡	262
	HK6018				•				⬡	286
	EK5018L					•			⬡	320
	PK18							•	⬡	362
	THK18						•		⬡	362
	HK60UNV	+ UA18			•				⬡	354
	EK60UNVL	+ UA18				•			⬡	357
	EKM60UNVL	+ UA18				•			⬡	356
	PK60UNV	+ UA18						•	⬡	355
10-240	K22			•					⬡	264
	HK6022				•				⬡	288
	EK6022L					•			⬡	324
	EKM6022L					•			⬡	322
	EKM60IDL					•			◡	328
	PK22							•	⬡	364
	THK22						•		⬡	364
	HK60UNV	+ UA22			•				⬡	354
	EK60UNVL	+ UA22				•			⬡	357
	EKM60UNVL	+ UA22				•			⬡	356
	PK60UNV	+ UA22						•	⬡	355
	HK12030				•				⬡	292
	HK12042				•				⬡	294
	HK120U				•				⬡	296
	EK120UNVL					•			⬡	358
	EK12030L					•			⬡	330
	EK12042L					•			⬡	332
	EK120UL					•			⬡	334
	HK122EL380						•		⬡	390
	PK12042							•	⬡	368
	PK120U							•	⬡	370

See next page

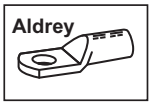


Tool application chart

Compression cable lugs and connectors made from E-Al

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

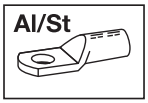
Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
10-500	HK252						•		⬡	388
	HK252EL380						•		⬡	391
	PK252							•	⬡	372
150-500	HK45				•				⬡	389
	PK45							•	⬡	374



Tool application chart

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

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
25-50	K354			•					⬡	260
	EK354					•			⬡	314
	EK354L					•			⬡	316
25-95	K18			•					⬡	262
	HK6018				•				⬡	286
	EK505L					•			⬡	318
	EK5018L					•			⬡	320
	PK18							•	⬡	362
	THK18						•		⬡	362
	HK60UNV	+ UA18			•				⬡	354
	EK60UNVL	+ UA18				•			⬡	357
	EKM60UNVL	+ UA18				•			⬡	356
	PK60UNV	+ UA18						•	⬡	355
25-185	K22			•					⬡	264
	HK6022				•				⬡	288
	EK6022L					•			⬡	324
	EKM6022L					•			⬡	322
	PK22							•	⬡	364
	THK22						•		⬡	364
	HK60UNV	+ UA22			•				⬡	354
	EK60UNVL	+ UA22				•			⬡	357
	EKM60UNVL	+ UA22				•			⬡	356
	PK60UNV	+ UA22						•	⬡	355
	HK12030				•				⬡	292
	HK12042				•				⬡	294
	HK120U				•				⬡	296
	EK12030L					•			⬡	330
	EK12042L					•			⬡	332
	EK120UL					•			⬡	334
	EK120UNVL					•			⬡	358
	HK122EL380						•		⬡	390
	PK12042							•	⬡	368
	PK120U							•	⬡	370
25-300	HK252						•		⬡	388
	HK252EL380						•		⬡	391
	PK252							•	⬡	372
150-300	HK45				•				⬡	389
	PK45							•	⬡	374



Tool application chart

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

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
25/4-120/20	K22			•					⬡	264
	HK6022				•				⬡	288
	EK6022L					•			⬡	324
	EKM6022L					•			⬡	322
	PK22							•	⬡	364
	THK22						•		⬡	364
	HK60UNV	+ UA22			•				⬡	354
	EK60UNVL	+ UA22				•			⬡	357
	EKM60UNVL	+ UA22				•			⬡	356
	PK60UNV	+ UA22						•	⬡	355
	HK12030				•				⬡	292
	HK12042				•				⬡	294
	HK120U				•				⬡	296
	EK12030L					•			⬡	330
	EK12042L					•			⬡	332
	EK120UL					•			⬡	334
	HK122EL380						•		⬡	390
	PK12042							•	⬡	368
	PK120U							•	⬡	370
	HK252						•		⬡	388
	HK252EL380						•		⬡	391
	PK252							•	⬡	372

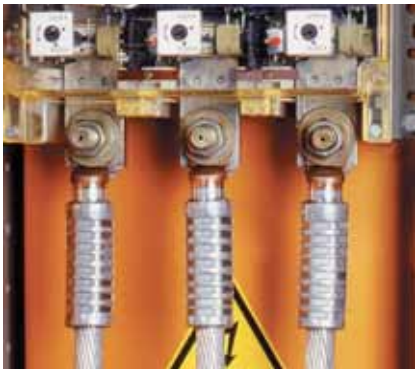
Two materials

simply connected.

Compression cable lugs and connectors for aluminum-copper connections.

Copper's electrical properties still make it the best material for conductors and electrical connections. There are, however, also good reasons for using aluminum. The need to connect these two materials together is therefore becoming more frequent.

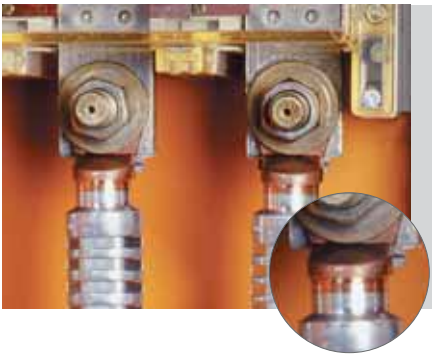
But because it's not that simple to join aluminum and copper and because they have a tendency to self-passivate through fast oxidation, special aluminum/copper cable lugs and connectors are required - for connecting to distributor networks or transformer stations and also for network reconstruction, for example.



The perfect solution for transitions from aluminum to copper conductors and vice versa.

- **Aluminum/copper compression cable lugs to DIN dimensions with copper palm or copper eye to 400 mm².**
- **Compression joints with copper connecting bolt.**
- **Reduction compression joints to DIN from 10 mm² to 300 mm².**

Connecting *aluminum and copper correctly.*



- Aluminum/copper compression cable lugs for aluminum conductors to DIN 48201 and pre-rounded sector-shaped conductors with a nominal cross section up to 400 mm².
- With copper palm or copper eye.
- Aluminum/copper compression joints with nominal cross sections of 10 mm² to 300 mm².

Benefits:

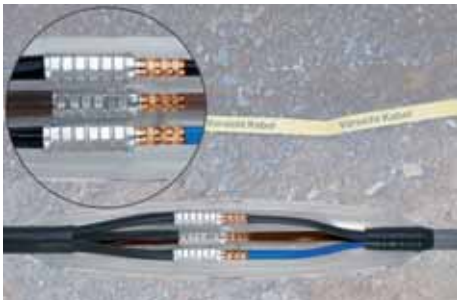
- Aluminum and copper conductors can be connected in a dry environment, **without destructive oxidation occurring between the two materials.**

Reduction compression joints as a solution for **different diameters.**

- With nominal cross sections from 10 mm² to 300 mm².
- For round or sector-shaped, multi-stranded and also sector-shaped solid conductors.
- For non-tension connections.

Benefits:

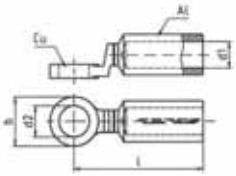
- Numerous compression joints are available for connecting copper and aluminum conductors, allowing optimised compression of these conductors.
- **Different materials can be safely connected regardless of their particular dimensions.**
- No matter which cable type is discovered in network reconstruction, Klauke offers a suitable connection solution.



More from Page 126.

For underground connections, we recommend protection against moisture - using cast resin sleeves for example.

Compression cable lugs, Al/Cu



- Tube dimension to DIN 46329
- For non-tension connections of Al cables to DIN 48201, part 5 and aluminum cables to DIN EN 50182
- For screwing aluminum connections using copper washers in humid areas
- With code number for clear tool assignment
- Filled with contact grease for optimum crimp characteristics

Characteristics

- Total cross-section: 16 - 300 mm² rm/sm
- Barrier design with oil stop and with solid copper screw-on palm
- For pre-rounded sector shaped conductors
- With crimp markings for correct crimping
- Precise end machining for easy cable insertion

Material

- E-Al
- Copper acc. to EN 13600

Surface

- Bright finished

Nominal cross section mm²		Size of bolt			Dimension mm				Number of crimps		Weight 100 pcs. ~kg		Packing
rm/sm	se	dia.	Part No.	Code	b	d1	d2	l	mech.	hydr.	Cu	Total	unit/pcs
16	25	M 8	**363R8**	12	25	6.0	8.5	67.5	4	2	4.4	5.9	10
	25	M 10	**363R10**	12	25	6.0	10.5	67.5	4	2	4.2	5.7	10
25	35	M 8	**364R8**	12	25	6.8	8.5	67.5	4	2	4.4	5.8	10
	35	M 10	**364R10**	12	25	6.8	10.5	67.5	4	2	4.2	5.6	10
	35	M 12	**364R12**	12	25	6.8	13.0	67.5	4	2	3.9	5.3	10
35	50	M 8	**365R8**	14	25	8.0	8.5	76.5	5	2	4.4	6.3	10
	50	M 10	**365R10**	14	25	8.0	10.5	76.5	5	2	4.2	6.1	10
	50	M 12	**365R12**	14	25	8.0	13.0	76.5	5	2	3.8	5.8	10
50	70	M 8	**366R8**	16	25	9.8	8.5	76.5	5	2	4.4	6.4	10
	70	M 10	**366R10**	16	25	9.8	10.5	76.5	5	2	4.2	6.2	10
	70	M 12	**366R12**	16	25	9.8	13.0	76.5	5	2	3.9	5.9	10
70	95	M 10	**367R10**	18	25	11.2	10.5	84.5	6	3	4.2	7.4	10
	95	M 12	**367R12**	18	25	11.2	13.0	84.5	6	3	3.9	7.1	10
95	120	M 10	**368R10**	22	30	13.2	10.5	90.5	6	3	7.4	11.4	10
	120	M 12	**368R12**	22	30	13.2	13.0	90.5	6	3	6.8	10.8	10
	120	M 16	**368R16**	22	30	13.2	17.0	90.5	6	3	6.4	10.4	10
120	150	M 12	**369R12**	22	30	14.7	13.0	92.0	6	3	6.8	11.4	5
	150	M 16	**369R16**	22	30	14.7	17.0	92.0	6	3	6.4	10.8	5
150	185	M 12	**370R12**	25	30	16.3	13.0	104.0	6	3	6.8	13.1	5
	185	M 16	**370R16**	25	30	16.3	17.0	104.0	6	3	6.4	12.7	5
	185	M 20	**370R20**	25	35	16.3	21.0	107.5	6	3	10.1	16.4	5
185	240	M 10	**371R10**	28	30	18.3	10.5	105.0	6	3	10.3	18.6	5
	240	M 12	**371R12**	28	30	18.3	13.0	105.0	6	3	10.1	18.4	5
	240	M 16	**371R16**	28	30	18.3	17.0	105.0	6	3	9.3	17.6	5
	240	M 20	**371R20**	28	35	18.3	21.0	107.5	6	3	10.1	18.4	5
240	300	M 10	**372R10**	32	35	21.0	10.5	118.5	8	3	12.1	22.5	5
	300	M 12	**372R12**	32	35	21.0	13.0	118.5	8	3	11.8	22.2	5
	300	M 16	**372R16**	32	35	21.0	17.0	118.5	8	3	11.0	21.4	5
	300	M 20	**372R20**	32	35	21.0	21.0	118.5	8	3	10.1	20.5	5

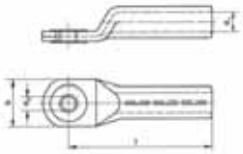
Nominal cross section mm²		Size of bolt			Dimension mm				Number of crimps		Weight 100 pcs. ~kg		Packing
rm/sm	se	dia.	Part No.	Code	b	d1	d2	l	mech.	hydr.	Cu	Total	unit/pcs
300	--	M 12	**373R12**	34	36	23.3	13.0	123.5	8	3	17.7	33.7	1
	--	M 16	**373R16**	34	36	23.3	17.0	123.5	8	3	16.9	32.9	1
	--	M 20	**373R20**	34	36	23.3	21.0	123.5	8	3	16.0	32.0	1

- sm/se - conductor needs to be pre-rounded
- sm = sector stranded
- rm = round multi-stranded
- se = sector solid
- **Tools: see chart page 130**

Compression cable lugs, Al/Cu, with copper eye

- **Tube dimension to DIN 46329**
- **For non-tension connections of Al cables to DIN 48201, part 5 and aluminum cables to DIN EN 50182**
- **With code number for clear tool assignment**
- **Filled with contact grease for optimum crimp characteristics**

Al/Cu



Characteristics

- Total cross-section: 10 - 400 mm² rm/sm
- For screwing non-tension aluminum connections using copper washers in humid areas
- For pre-rounded sector shaped conductors
- With copper eye in screw-on area
- With crimp markings for correct crimping
- Precise end machining for easy cable insertion

Material

- E-Al
- Copper acc. to EN 13600

Surface

- Bright finished

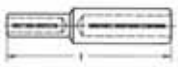
Nominal cross section mm²		Size of bolt			Dimension mm				Number of crimps		Weight 100 pcs. ~kg		Packing
rm/sm	se	dia.	Part No.	Code	b	d1	d2	l	mech.	hydr.	Cu	Total	unit/pcs
10	--	M 6	**302R6**	10	18	5.0	6.5	52	4	2	0.260	1.20	10
	--	M 8	**302R8**	10	22	5.0	8.5	52	4	2	0.580	1.50	10
16	25	M 8	**302R8**	12	22	5.8	8.5	52	4	2	0.600	1.95	10
	25	M 10	**303R10**	12	25	5.8	10.5	52	4	2	0.600	2.00	10
25	35	M 8	**304R8**	12	22	6.8	8.5	60	4	2	0.625	2.00	10
	35	M 10	**304R10**	12	25	6.8	10.5	60	4	2	0.900	2.10	10
35	50	M 10	**305R10**	14	26	8.0	10.5	67	5	2	0.800	3.00	10
	50	M 12	**305R12**	14	30	8.0	13.0	67	5	2	1.120	3.10	10
50	70	M 10	**306R10**	16	27	9.8	10.5	72	5	2	0.900	3.60	10
	70	M 12	**306R12**	16	30	9.8	13.0	72	5	2	1.120	3.80	10
70	95	M 10	**307R10**	18	29	11.2	10.5	86	6	3	1.075	5.60	10
	95	M 12	**307R12**	18	32	11.2	13.0	86	6	3	1.300	5.70	10
95	120	M 10	**308R10**	22	32	13.2	10.5	90	6	3	1.435	10.00	5
	120	M 12	**308R12**	22	35	13.2	13.0	90	6	3	1.735	9.50	5
	120	M 16	**308R16**	22	38	13.2	17.0	90	6	3	2.655	10.00	5

Compression cable lugs, Al/Cu, with copper eye

Nominal cross section mm²		Size of bolt dia.	Part No.	Code	Dimension mm				Number of crimps		Weight 100 pcs. ~kg		Packing unit/pcs
rm/sm	se				b	d1	d2	l	mech.	hydr.	Cu	Total	
120	150	M 12	**309R12**	22	35	14.7	13.0	91	6	3	1.810	8.70	5
	150	M 16	**309R16**	22	38	14.7	17.0	91	6	3	2.230	8.80	5
150	185	M 12	**310R12**	25	35	16.3	13.0	103	6	3	2.025	12.20	5
	185	M 16	**310R16**	25	41	16.3	17.0	103	6	3	2.655	12.30	5
	185	M 20	**310R20**	25	44	16.3	21.0	103	6	3	3.620	12.80	5
185	240	M 12	**311R12**	28	40	18.3	13.0	106	6	3	2.320	15.00	5
	240	M 16	**311R16**	28	42	18.3	17.0	106	6	3	4.975	15.50	5
	240	M 20	**311R20**	28	46	18.3	21.0	106	6	3	4.610	15.50	5
240	300	M 12	**312R12**	32	45	21.0	13.0	116	8	3	2.750	20.00	5
	300	M 16	**312R16**	32	45	21.0	17.0	116	8	3	3.400	21.00	5
	300	M 20	**312R20**	32	49	21.0	21.0	116	8	3	4.600	22.00	5
300	--	M 16	**313R16**	34	51	23.3	17.0	124	8	3	3.980	21.60	1
	--	M 20	**313R20**	34	51	23.3	21.0	124	8	3	5.510	22.20	1
400	--	M 16	**314R16**	38	58	26.0	17.0	165	--	4	4.200	35.00	1
	--	M 20	**314R20**	38	58	26.0	21.0	165	--	4	5.950	35.00	1

- sm/se - conductor needs to be pre-rounded
- sm = sector stranded
- rm = round multi-stranded
- se = sector solid
- **Tools: see chart page 130**

Compression joints, Al/Cu



Al/Cu

- **Tube dimensions to DIN 46267 part 1 and 2**
- **For non-tension connections of Al cables to DIN 48201, part 5 and aluminum cables to DIN EN 50182**
- **With code number for clear tool assignment**

Characteristics

- Total cross-section: 10 - 300 mm²
- For connecting non-tension aluminum and copper connections
- With crimp markings for correct crimping
- Precise end machining for easy cable insertion

Material

- E-Al
- Copper acc. to EN 13600

Surface

- Bright finished

Nominal cross section mm²				Code		Dimension mm			Weight 100 pcs. ~kg		Packing unit/pcs
Al rm/sm	Al se	Cu rm/sm	Part No.	Al	Cu	l	Al	Cu	Cu	Total	
10	16	10	**322R10**	10	6	55.0	5.0	4.5	0.212	1.100	4
	16	16	**322R16**	10	8	61.0	5.0	5.4	0.714	1.550	4
16	25	10	**323R10**	12	6	55.0	6.0	4.5	0.212	1.500	4
	25	16	**323R16**	12	8	61.0	6.0	5.4	0.714	1.750	4
25	35	10	**324R10**	12	6	55.0	6.8	4.5	0.212	1.400	4
	35	16	**324R16**	12	8	61.0	6.8	5.5	0.714	1.650	4
	35	25	**324R25**	12	10	61.0	6.8	7.0	0.892	1.900	4
	35	35	**324R35**	12	12	61.0	6.8	8.2	1.624	2.000	4
	35	50	**324R50**	12	14	72.0	6.8	10.0	2.362	3.500	4
25/4	35	16	**324R416**	12	8	61.0	7.6	5.5	0.714	1.600	4
	35	25	**324R425**	12	10	61.0	7.6	7.0	0.892	1.850	4

Compression joints, Al/Cu

Nominal cross section mm²				Code		Dimension mm			Weight 100 pcs. ~kg		Packing unit/ pcs
Al rm/sm	Al se	Cu rm/sm	Part No.	Al	Cu	l	Al	Cu	Cu	Total	
35	50	16	**325R16**	14	8	71.0	8.0	5.5	0.714	2.500	4
	50	25	**325R25**	14	10	71.0	8.0	7.0	0.892	2.650	4
	50	35	**325R35**	14	12	71.0	8.0	8.2	1.519	3.300	4
	50	50	**325R50**	14	14	77.0	8.0	10.0	2.362	3.530	4
35/6	50	16	**325R616**	14	8	71.0	9.0	5.5	0.714	2.450	4
	50	25	**325R625**	14	10	71.0	9.0	7.0	0.892	2.600	4
	50	35	**325R635**	14	12	71.0	9.0	8.2	1.624	3.250	4
50	70	16	**326R16**	16	8	71.5	9.8	5.5	0.714	2.850	4
	70	25	**326R25**	16	10	71.5	9.8	7.0	0.892	3.200	4
	70	35	**326R35**	71.5	9.8	8.2	16	12	1.624	3.800	4
	70	50	**326R50**	77.5	9.8	10.0	16	14	2.362	4.550	4
70	95	16	**327R16**	79.0	11.2	5.5	18	8	0.714	4.100	4
	95	25	**327R25**	79.0	11.2	7.0	18	10	0.892	3.950	4
	95	35	**327R35**	79.0	11.2	8.2	18	12	1.624	4.900	4
	95	50	**327R50**	85.0	11.2	10.0	18	14	2.362	5.700	4
	95	70	**327R70**	86.0	11.2	11.5	18	16	2.921	7.250	4
	95	95	**327R95**	95.0	11.2	13.5	18	18	4.957	9.360	4
	95	120	**327R120**	99.0	11.2	15.5	18	20	5.640	10.540	4
95	120	16	**328R16**	79.0	13.2	5.5	22	8	0.714	6.150	4
	120	25	**328R25**	79.0	13.2	7.0	22	10	0.892	6.300	4
	120	35	**328R35**	79.0	13.2	8.2	22	12	1.519	6.800	4
	120	50	**328R50**	85.0	13.2	10.0	22	14	2.362	8.050	4
	120	70	**328R70**	87.0	13.2	11.5	22	16	3.105	8.200	4
	120	95	**328R95**	95.0	13.2	13.5	22	18	4.957	10.350	4
	120	120	**328R120**	95.0	13.2	15.5	22	20	5.640	11.550	4
120	150	35	**329R35**	81.0	14.7	8.2	22	12	1.519	7.600	4
	150	50	**329R50**	87.0	14.7	10.0	22	14	2.362	7.900	4
	150	70	**329R70**	89.0	14.7	11.5	22	16	3.105	8.500	4
	150	95	**329R95**	97.0	14.7	13.5	22	18	4.857	11.000	4
	150	120	**329R120**	97.0	14.7	15.5	22	20	5.640	10.280	4
150	185	16	**330R16**	91.5	16.3	5.4	25	8	0.714	7.800	4
	185	25	**330R25**	91.5	16.3	6.8	25	10	0.892	8.000	4
	185	35	**330R35**	91.5	16.3	8.2	25	12	1.624	8.400	4
	185	50	**330R50**	98.5	16.3	10.0	25	14	2.362	10.200	4
	185	70	**330R70**	99.5	16.3	11.5	25	16	3.105	10.350	4
	185	95	**330R95**	107.5	16.3	13.5	25	18	4.957	12.650	4
	185	120	**330R120**	107.5	16.3	15.5	25	20	5.640	13.900	4
	185	150	**330R150**	124.0	16.3	17.0	25	22	8.231	16.700	4
185	240	50	**331R50**	99.0	18.3	10.0	28	14	2.362	12.100	1
	240	70	**331R70**	100.0	18.3	11.5	28	16	3.105	13.000	1
	240	95	**331R95**	108.0	18.3	13.5	28	18	4.957	14.450	1
	240	120	**331R120**	108.0	18.3	15.5	28	20	5.640	13.720	1
	240	150	**331R150**	113.0	18.3	17.0	28	22	8.231	19.550	1
	240	185	**331R185**	116.0	18.3	19.0	28	25	9.621	21.000	1
240	300	50	**332R50**	110.0	21.0	10.0	32	14	2.362	16.500	1
	300	70	**332R70**	111.0	21.0	11.5	32	16	3.105	18.000	1
	300	95	**332R95**	119.0	21.0	13.5	32	18	4.957	19.000	1
	300	120	**332R120**	119.0	21.0	15.5	32	20	5.640	20.500	1
	300	150	**332R150**	124.0	21.0	17.0	32	22	8.231	23.300	1
	300	185	**332R185**	127.0	21.0	19.0	32	25	9.621	25.500	1
	300	240	**332R240**	128.0	21.0	21.5	32	28	12.705	30.100	1

Compression joints, Al/Cu

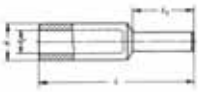
Nominal cross section mm²				Code		Dimension mm			Weight 100 pcs. ~kg		Packing unit/ pcs
Al rm/sm	Al se	Cu rm/sm	Part No.	Al	Cu	l	Al	Cu	Cu	Total	
	--	120	**333R120**	119.0	23.5	15.5	34	20	5.640	27.800	1
	--	150	**333R150**	124.0	23.5	17.0	34	22	8.234	31.100	1
300	--	185	**333R185**	127.0	23.5	19.0	34	25	9.621	32.700	1
	--	240	**333R240**	128.0	23.5	21.5	34	28	12.705	37.500	1
	--	300	**333R300**	134.0	23.5	24.5	34	32	16.099	41.700	1

- sm/se - conductor needs to be pre-rounded
- sm = sector stranded
- rm = round multi-stranded
- se = sector solid

Use for the copper side of the article DIN sleeve for compacted conductors.
Sleeves for compacted conductors and sleeves for 3- and 4-core conductors see chapter "Sleeves for compacted and sector shaped conductors-Cu"
Reduction sleeves to connect different cross sections can be found at 83

Tools: see chart page 130

Compression joints with copper connecting bolt, Al



Al/Cu

- **Tube dimensions to DIN 46267 part 1 and 2**
- **For non-tension connections of Al cables to DIN 48201, part 5 and aluminum cables to DIN EN 50182**
- **With code number for clear tool assignment**

Characteristics

- Total cross-section: 25 - 300 mm²
- For screwing non-tension Al connections in Cu clamps
- With crimp markings for correct crimping
- Also for pre-rounded sector shaped conductors
- Precise end machining for easy cable insertion

Material

- E-Al
- Copper acc. to EN 13600

Surface

- Bright finished

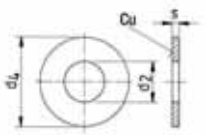
Nominal cross section mm²				Bolt dia. mm	Conductor dia. mm	Dimension mm				Weight 100 pcs. ~kg		Packing unit/pcs
rm/sm	se	Part No.	Code			d dia.	d1	l	l1	Cu	Total	
25	35	**344R**	12	6	6.3	12.0	6.8	58	20	0.462	1.6	10
35	50	**345R**	14	7	7.5	14.0	8.0	71	22	0.695	2.5	10
50	70	**346R**	16	8	9.0	16.0	10.0	74	25	1.037	3.3	10
70	95	**347R**	18	10	10.5	18.5	11.5	87	30	1.958	5.4	10
95	120	**348R**	22	12	12.5	23.0	13.2	91	33	3.112	8.7	10
120	150	**349R**	22	12	14.0	23.0	15.0	97	38	3.598	9.0	10
150	185	**350R**	25	12	15.8	25.5	16.5	108	38	3.598	10.9	10
185	240	**351R**	28	14	17.5	28.5	18.5	116	44	3.692	15.7	5
240	300	**352R**	32	16	20.3	32.5	21.5	128	44	7.435	21.8	5
300	--	**353R**	34	18	22.5	34.5	23.5	131	46	9.410	26.7	1

- sm/se - conductor needs to be pre-rounded
- sm = sector stranded
- rm = round multi-stranded
- se = sector solid

Tools: see chart page 130

Bi-metallic washer

Flat washer for processing aluminum and copper cable lugs



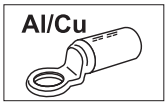
Characteristics

- Galvanic separation between copper and aluminum
- Only for use in dry areas

Material

- E-Al, one side copper plated

Size of bolt dia.	Part No.	Dimension mm d2	d4	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
M 8	**CS818**	8.5	18	1	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

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
10-70	K354			•					⬡	260
	EK354					•			⬡	314
	EK354L					•			⬡	316
10-185	K18			•					⬡	262
	HK6018				•				⬡	286
	EK5018L					•			⬡	320
	PK18							•	⬡	362
	THK18						•		⬡	362
	HK60UNV	+ UA18			•				⬡	354
	EK60UNVL	+ UA18				•			⬡	357
	EKM60UNVL	+ UA18				•			⬡	356
	PK60UNV	+ UA18						•	⬡	355
10-240	K22			•					⬡	264
	HK6022				•				⬡	288
	EK6022L					•			⬡	324
	EKM6022L					•			⬡	322
	PK22							•	⬡	364
	THK22						•		⬡	364
	HK60UNV	+ UA22			•				⬡	354
	EK60UNVL	+ UA22				•			⬡	357
	EKM60UNVL	+ UA22				•			⬡	356
	PK60UNV	+ UA22						•	⬡	355
	HK12030				•				⬡	292
	HK12042				•				⬡	294
	HK120U				•				⬡	296
	EK12030L					•			⬡	330
	EK12042L					•			⬡	332
	EK120UL					•			⬡	334
	EK120UNVL					•			⬡	358
	HK122EL380						•		⬡	390
	PK12042							•	⬡	368
	PK120U							•	⬡	370
10-500	HK252						•		⬡	388
	HK252EL380						•		⬡	391
	PK252							•	⬡	372
150-500	HK45				•				⬡	389
	PK45							•	⬡	374

Simply branch and connect.

Clamps and screw connectors.

C and H-shaped clamps as well as parallel groove clamps are used wherever power lines are branched. Screw connectors are a practical alternative for service and maintenance since they can be used across the entire cross-section spectrum. Just a few variants cover all possible connections. Screw connectors can be used on aluminum cables without compound as the special grooved profile pierces the oxide layer during the screwing operation.

The key benefit of compact tap connectors is that, provided the specified safety precautions are taken, they can also be installed while live.

The H-clamps in our range are lightning current tested to EN 50164-1 Class H (100 kA 10/350 µs).

- **C and H-shaped clamps.**
- **Parallel groove clamps.**
- **Screw connectors, also barrier types, for aluminum/copper connections.**
- **Compact tap connectors for 3 and 4 core sector-shaped cables.**

Branching **without splitting** *the conductor.*

- C and H-shaped clamps with nominal cross sections from 2.5 mm² to 185 mm².
- Parallel groove clamps from 2.5 mm² to 150 mm².
- Either with or without thrust plate.

Benefits:

- **Cables can be branched into various nominal cross-sections without having to cut the main conductor.**
- Thrust plates on parallel groove clamps guarantee optimal hold of the branch connection as pressure is being distributed symmetrically.
- *More from Page 137.*

Simply screw *– and the connection is made.*

More from Page 141.

- For aluminum and copper conductors.
- With nominal cross sections from 2.5 mm² to 185 mm².
- With or without shear heads.
- Special grooved profile on the inside.

Benefits:

- Suitable screw connectors for diverse applications such as street lighting or using copper sheathed wires and plastic-insulated conductors.
- No torque wrench required **to install screw connectors with shear heads**, since the screw shears off on reaching the required torque.
- During screwing the grooved profile pierces the oxide layer on the conductor guaranteeing always a perfect contact.

Installation **without downtimes.**

- Compact tap connectors with nominal cross sections up to 185 mm².
- For 3 and 4 sector-shaped conductors with angles of 120° and 90° respectively.
- For aluminum and copper conductors.
- With or without shear heads for the main conductor.
- Can be installed live to VDE specifications using the correct Klauke tools (more from Page 476).

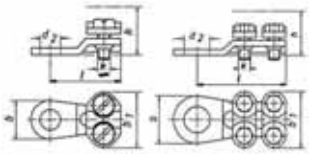
More from Page 147.

Benefits:

- The range includes proper solutions for practically every application.
- You can install tap conductors **without disconnecting the power supply.** No interruption of production sequences, operation can be maintained.
- Multi-phase tap conductors can be installed without disrupting the main conductor, even in tight spaces.

- ***Screw connectors and compact tap connectors should be protected against moisture because of varying material properties after processing.***

Punched cable lugs, Cu



For screwing conductors to VDE 0295 Class 1 and 2, for example in lightning protection areas

Characteristics

- Total cross-section: 6 - 300 mm²
- Also for outdoor assembly
- Available with 2 or 4 screws

Material

- Cu-ETP
- Screws: DIN 84 / DIN 933 bronze, F 60

Surface

- Tin-plated

Order info

- Bright finish version also available, part number appendix "bk"

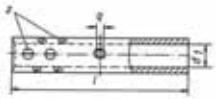
Nominal cross section mm²	Part No.	Dimension mm						Number of screws	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
		b	b1	d2	k	h	l			
6 - 10	**572R6**	15.0	18.0	6.5	M4	10	23.0	2	1.30	50
10 - 16	**573R6**	15.0	20.5	6.5	M5	14	27.0	2	1.30	50
	573R8	15.0	20.5	8.5	M5	14	27.0	2	1.30	50
16 - 25	**574R8**	15.0	25.0	8.5	M5	16	30.0	2	2.75	50
	584R8	18.5	22.5	8.5	M5	16	36.0	4	3.70	25
	584R10	19.5	22.5	10.5	M5	16	37.0	4	3.75	25
25 - 35	**575R8**	18.5	24.0	8.5	M5	16	25.5	2	2.50	50
	585R8	18.5	24.0	8.5	M5	16	38.5	4	4.30	25
	585R10	21.5	24.0	10.5	M5	16	42.0	4	4.65	25
	585R12	21.5	24.0	13.0	M5	16	42.0	4	4.50	25
35 - 50	**586R10**	19.0	28.0	10.5	M6	19	46.0	4	6.75	25
	586R12	21.0	28.0	13.0	M6	19	47.0	4	6.70	25
50 - 70	**587R10**	23.5	31.0	10.5	M6	19	51.0	4	9.35	10
	587R12	23.5	31.0	13.0	M6	19	51.0	4	9.30	10
70 - 95	**588R10**	24.0	34.0	10.5	M6	25	57.0	4	12.00	10
	588R12	24.0	34.0	13.0	M6	25	57.0	4	11.85	10
95 - 150	**589R10**	30.0	42.0	10.5	M8	32	61.0	4	20.15	10
	589R12	30.0	42.0	13.0	M8	32	61.0	4	20.20	10
	589R16	30.0	42.0	17.0	M8	32	61.5	4	20.10	10
150 - 240	**590R10**	34.0	48.5	10.5	M8	32	68.5	4	24.40	5
	590R12	34.0	48.5	13.0	M8	32	68.5	4	24.35	5
	590R16	34.0	48.5	17.0	M8	32	68.5	4	24.30	5
	590R20	36.0	48.5	21.0	M8	32	70.5	4	24.25	5
185 - 300	**592R12**	32.0	50.0	13.0	M8	37	68.5	4	27.95	5
	592R16	32.0	50.0	17.0	M8	37	68.5	4	28.00	5
	592R20	34.5	50.5	21.0	M8	37	70.0	4	27.95	5

Tube screw connectors, CuZn

Characteristics
- Total cross-section: 6 - 300 mm²
- A connection needs to be soldered
- With soldering hole and fixing screws for easy processing

Material
- CuZn 40 Pb 2
- Screws: DIN 551 steel

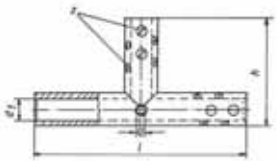
Surface
- Tin-plated



Nominal cross section mm²	Part No.	Dimension mm d1	l	dia. q	z*	Weight/ 100 pcs. ~ kg	Packing unit/pcs
6	**551R**	3.5	25	3.3	2	0.60	10
10	**552R**	4.5	30	3.3	2	1.20	10
16	**553R**	5.5	40	4.2	4	1.90	10
25	**554R**	7.0	45	4.2	4	2.85	10
35	**555R**	8.5	45	5.0	4	3.00	10
50	**556R**	10.0	48	5.0	4	4.00	10
70	**557R**	12.0	52	6.8	4	6.30	10
95	**558R**	13.5	55	6.8	4	8.05	10
120	**559R**	15.0	60	6.8	4	9.90	10
150	**560R**	17.0	64	6.8	4	11.80	5
185	**561R**	19.0	70	6.8	10	14.30	5
240	**562R**	21.0	70	6.8	10	15.50	5
300	**563R**	24.0	75	6.8	10	19.30	1

▸ z = number of set screws

Screw T-connectors, CuZn



Characteristics
- Total cross-section: 4 - 95 mm²
- A connection needs to be soldered
- With soldering hole and fixing screws for easy processing

Material
- CuZn 40 Pb 2
- Screws: DIN 551 steel

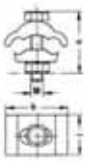
Surface
- Tin-plated

Nominal cross section mm²	Part No.	Dimension mm d1	h	l	dia. q	z*	Weight/ 100 pcs. ~ kg	Packing unit/pcs
4 - 6	**TAS6**	3.0	18	30	2.5	3	1.05	10
10	**TAS10**	4.5	25	40	3.5	3	2.15	10
16	**TAS16**	5.5	27	42	3.5	6	2.50	10
25	**TAS25**	7.0	29	45	4.5	6	3.70	10
35	**TAS35**	8.5	32	52	4.5	6	4.30	10
50	**TAS50**	10.0	34	56	6.0	9	7.40	10
70	**TAS70**	12.0	41	62	6.5	9	9.80	5
95	**TAS95**	13.5	44	68	7.0	9	12.80	5

▸ z = number of set screws

Parallel groove clamps, Cu, 1 screw

For screwing conductors to VDE 0295 Class 1 and 2, for example in lightning protection areas



Characteristics

- Total cross-section: 2.5 - 95 mm²
- Also for outdoor assembly
- Version with 1 screw
- Available either with or without thrust plate
- With thrust plate for equal pressure distribution with differing cross-section pairings

Material

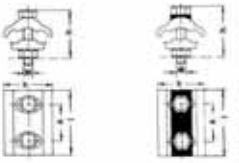
- Cu-ETP
- Screws: high-tensile copper alloy F 60
- Nut: copper

Surface

- Bright

Nominal cross section mm²	Part No.	Dimension mm b	h	l	M	Md Nm	Weight/ 100 pcs. ~ kg	Packing unit/pcs
Without thrust plate								
2.5 - 16	**SAK10**	19.5	16	16	M5	6	2.10	10
2.5 - 25	**SAK12**	25.0	21	18	M6	8	4.10	10
	SAK14	25.0	22	20	M7	14	3.95	10
6 - 35	**SAK16**	28.0	23	20	M7	14	6.0	10
6 - 50	**SAK18**	32.5	26	24	M7	14	8.0	10
	SAK20	33.5	27	22	M8	20	8.6	10
6 - 70	**SAK22**	37.5	29	24	M8	20	11.1	5
10 - 95	**SAK24**	41.0	36	28	M8	20	15.6	5
With thrust plate								
2.5 - 16	**SAK11**	19.5	16	16	M5	6	2.6	10
2.5 - 25	**SAK13**	25.0	21	18	M6	8	4.30	10
	SAK15	25.0	22	18	M7	14	4.6	10
6 - 35	**SAK17**	28.0	23	20	M7	14	6.3	10
6 - 50	**SAK19**	32.5	26	20	M7	14	7.9	10
	SAK21	33.5	27	22	M8	20	9.1	10
6 - 70	**SAK23**	37.5	29	24	M8	20	11.6	5
10 - 95	**SAK25**	45.0	36	31	M10	39	19.60	5

Parallel groove clamps, Cu, 2 screws



For screwing conductors to VDE 0295 Class 1 and 2, for example in lightning protection areas

Characteristics

- Total cross-section: 2.5 - 150 mm²
- Also for outdoor assembly
- Version with 2 screws
- Available either with or without thrust plate
- With thrust plate for equal pressure distribution with differing cross-section pairings

Material

- Cu-ETP
- Screws: high-tensile copper alloy F 60
- Nut: copper

Surface

- Bright finished

Nominal cross section mm²	Part No.	Dimension mm b	h	l	A	M	Md Nm	Weight/ 100 pcs. ~ kg	Packing unit/pcs
Without thrust plate									
2.5 - 16	**SAK30**	20.5	16.0	24	13.0	M5	6	3.7	10
2.5 - 25	**SAK32**	25.5	21	27	13.5	M6	8	6.4	10
	SAK34	25.0	22	30	15.0	M7	14	7.7	10
6 - 35	**SAK36**	30.0	23	30	15	M7	14	8.5	10
6 - 50	**SAK38**	33.0	26	32	16.0	M7	14	12.3	10
10 - 50	**SAK40**	32.5	27	36	18.0	M8	20	12.9	10
10 - 95	**SAK44**	45.0	36	46	25.5	M10	39	28.7	5
16 - 150	**SAK46**	52.5	40	52	26.0	M10	39	37.4	5
With thrust plate									
2.5 - 16	**SAK31**	19.5	16	24	13.0	M5	6	4.1	10
2.5 - 25	**SAK33**	25.5	21	27	14.0	M6	8	7.0	10
	SAK35	25.0	22	30	15.0	M7	14	7.9	10
6 - 35	**SAK37**	28.0	23	32	16.0	M7	14	10.2	10
6 - 50	**SAK39**	33.0	26	32	17.0	M7	14	12.8	10
10 - 50	**SAK41**	32.5	27	34.5	18.0	M8	20	14.7	10
6 - 70	**SAK43**	37.0	29	38.5	19.0	M8	20	19.1	5
10 - 95	**SAK45**	41.0	36	43	20.0	M8	20	25.0	5
16 - 150	**SAK47**	52.5	40	52	26.0	M10	39	39.0	5

C-Clamps, Cu

- Ideal for clamping identical conductor cross-sections e.g. to VDE 0295 classes 1 and 2
- The split of the main conductor is omitted

Characteristics
- Total cross-section: 16 - 95 mm²
- Optimum conducting characteristics in combination with compound

Material
- Cu-ETP

Surface
- Tin-plated to protect against corrosion (other surfaces available upon request)

Order info
- Bright finish version also available, part number appendix "bk"

Part No.	Conductor size rm/re		Dimension mm		Weight/ 100 pcs. ~ kg	Packing unit/pcs
	Main Conductor	Junction	b	l		
CK16	16/25	16/25	16.0	15	0.94	25
CK25	25/35	25/35	20.0	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/-	34.0	28	9.69	10
CK95	95/-	95/-	35.0	28	7.30	10

- rm = round multi-stranded
- re = round solid
- **Tools: see chart page 150**

C-Clamps, Cu, Multi purpose clamps

- Ideal for clamping non-identical conductor cross-sections e.g. to VDE 0295 classes 1 and 2
- The split of the main conductor is omitted

Characteristics
- Total cross-section: 2.5 - 185 mm²
- Optimum conducting characteristics in combination with compound

Material
- Cu-ETP

Surface
- Tin-plated to protect against corrosion

Order info
- Bright finish version also available, part number appendix "bk"

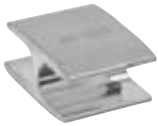
Part No.	Conductor size rm/re		Dimension mm		Weight/ 100 pcs. ~ kg	Packing unit/pcs
	Main conductor	Junction	b	l		
MCK44	2.5 - 4/2.5 - 4	2.5 - 4/2.5 - 4	9.8	8	0.185	25
MCK1010	6 - 10/10	4 - 6/4 - 10	12.0	12	0.460	25
MCK1016	10 - 16/16	4 - 10/4 - 10	19.0	17	1.900	25
MCK1025	16 - 25/25	4 - 10/4 - 10	19.0	17	1.900	25
MCK3535	16 - 25/25 - 35	16 - 25/16 - 35	20.0	17	1.750	25
MCK2550	35/50	4 - 25/4 - 25	24.8	23	4.400	25

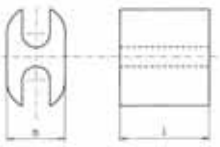
C-Clamps, Cu, Multi purpose clamps

Part No.	Conductor size rm/re		Dimension mm		Weight/ 100 pcs. ~ kg	Packing unit/pcs
	Main conductor	Junction	b	l		
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
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

- rm = round multi-stranded
- re = round solid
- **Tools: see chart page 150**

H-Clamps, Cu





- **Ideal for clamping identical conductor cross-sections e.g. to VDE 0295 class 2**
- **Acc. to EN 50164-1 lightning protection certified**
- **The split of the main conductor is omitted**

Characteristics

- Total cross-section: 70 - 120 mm²
- H-shape allows simple processing
- Optimum conducting characteristics in combination with compound

Material

- Cu-ETP

Surface

- Tin-plated to protect against corrosion

Order info

- Bright finish version also available, part number appendix "bk"

Part No.	Conductor size rm		Dimension mm		Weight/ 100 pcs. ~ kg	Packing unit/pcs
	Main conductor	Junction	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

- rm = round multi-stranded
- * = According to EN 50164-1 lightning protection certified
- **Tools: see chart page 151**

Compound for clamps

- **Optimum conductivity properties for processing aluminum cable lugs and connectors and clamps (C and H-type)**

Characteristics

- Water-resistant, with corundum for destroying the oxidation layer on contact surfaces
- Contents/can: 0.125 kg

Part No.
KF125

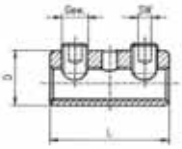
Screw connectors for shielded copper wires

- Suitable cross-section range, for example shielded copper wires
- Ideal for connecting identical and different conductor cross-sections

Characteristics
- Special grooved profile inside for removing the oxidation layer when screwing
- With inspection hole for monitoring cable entry

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

Surface
- Tin-plated



Part No.	Nominal cross section mm²		Dimension mm		bolt data				Weight/ 100 pcs. ~ kg	Packing unit/ pcs
	rm	re	D	L	Number of screws	AF	Thread	Md Nm		
SV100	6 - 25	6 - 35	14	40	2	4	M8x1	10	3.9	4

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

Please observe instructions at "Technical appendix" on page i-9

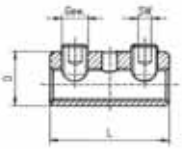
Screw connectors for street lighting

- Suitable cross-section range for street lighting
- Ideal for connecting identical and different conductor cross-sections

Characteristics
- Special grooved profile inside for removing the oxidation layer when screwing
- With inspection hole for monitoring cable entry

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

Surface
- Tin-plated, bright finished version available (part number appendix "BK")

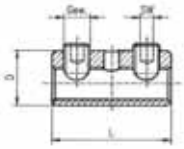


Part No.	Nominal cross section mm²		Dimension mm		bolt data			Weight/ 100 pcs. ~ kg	Packing unit/ pcs
	rm	re	D	L	Number of screws	AF	Thread		
SV200	2.5 - 10	2.5 - 16	10	30	2	2.5	M5x1.5	1.35	4
SV200BK	2.5 - 10	2.5 - 16	10	30	2	2.5	M5x1.5	1.35	4

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

Please observe instructions at "Technical appendix" on page i-9

Screw connector with 2 screws



- Ideal for connecting identical and different conductor cross-sections
- For connecting different conductor types and materials, e.g. to VDE 0295 Class 1 and 2 and Al conductors to DIN 48201 part 5
- With inspection hole for monitoring cable entry (dissimilar materials must not come into contact)

Characteristics

- Total cross-section: 2.5 - 185 mm²
- Special grooved profile inside for removing the oxidation layer when screwing
- Either with or without shear head, shear head partly fixed
- Version with 2 screws

Material

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

Surface

- Bright finished or tin-plated

Order info

- * = fixed version, part number appendix "NL"
- ** = Version with fixed countersink shear head, part number appendix "VK"

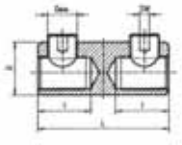
Nominal cross section mm²			Dimension mm			bolt data		Weight/ 100 pcs.	Packing unit/
rm/sm	rm(v)/re/se	Part No.	D	L	AF	Thread	Md Nm	~ kg	pcs
Without shear head, bright finished									
6 - 25	6 - 35	**SV303**	14	40	4	M8x1	8	1.5	4
6 - 35	6 - 50	**SV300**	16	40	4	M10x2	8	1.7	4
16 - 95	16 - 95	**SV301**	25	55	5	M12x16	20	6.6	4
--	35 - 150	**SV308**	28	70	6	M18x1.5	25	11.3	4
35 - 185	35 - 185	**SV302**	32	80	6	M18x1.5	25	16	4
Without shear head, tin-plated									
6 - 25	6 - 35	**SV303V**	14	40	4	M8x1	8	1.5	4
Cu 2.5/Al 6 - 35	Cu 2.5/Al 6 - 50	**SV300V**	16	40	4	M10x2	8	1.7	4
16 - 35	16 - 50	**SV307V**	22	57	5	M10x1.5	15	4.7	4
16 - 95	16 - 95	**SV301V**	25	55	5	M12x16	20	6.6	4
35 - 185	35 - 185	**SV302V**	32	80	6	M18x1.5	25	16	4
With shear head, bright finished									
6 - 25	6 - 35	***SV303AK**	14	40	4	M8x1	8	1.5	1
6 - 35	--	**SV304AKNL**	16	40	4	M10x1	8	1.7	4
16 - 35	16 - 50	**SV307AKNL**	22	57	5	M10x1.5	15	4.7	4
16 - 95	16 - 95	**SV301AK**	25	55	5	M12x16	20	6.6	4
35 - 185	35 - 185	**SV302AK**	32	80	6	M18x1.5	25	16	4
With shear head, tin-plated									
Cu 2.5/Al 6 - 35	Cu 2.5/Al 6-50	**SV304AKNLV**	16	40	4	M10x1	8	1.7	4
16 - 95	16 - 95	****SV301AKV**	55	55	5	M12x16	20	6.6	4
35 - 185	35 - 185	**SV302AKV**	32	80	6	M18x1.5	25	16	4

- sm/se - conductor needs to be pre-rounded
- rm = round multi-stranded
- rm (v) = round multi-stranded compacted
- sm = sector stranded
- re = round solid
- se = sector solid

Please observe instructions at "Technical appendix" on page i-9

Screw connectors with barrier

- Ideal for connecting identical and different conductor cross-sections
- For connecting different conductor types and materials, e.g. to VDE 0295 Class 1 and 2 and Al conductors to DIN 48201 part 5



Characteristics

- Total cross-section: 2.5 - 185 mm²
- Special grooved profile inside for removing the oxidation layer when screwing
- Either with or without shear head, shear head partly fixed
- Version with 2 screws and barrier

Material

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

Surface

- Bright finished or tin-plated

Order info

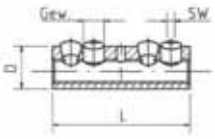
- * = Version with fixed countersink shear head, part number appendix "VK"

Nominal cross section mm²			Dimension mm			bolt data			Weight/ 100 pcs. ~ kg	Packing unit/ pcs
rm/sm	rm(v)/re/se	Part No.	D	l	L	AF	Thread	Md Nm		
Without shear head, bright finished										
2.5 - 35	2.5 - 50	**SV315**	16	17.5	40	4	M10x1	9	1.7	4
16 - 95	16 - 95	**SV309**	25	22	55	5	M12x1	20	6.6	4
--	35 - 150	**SV320**	28	31	70	6	M18x1.5	25	11.3	4
35 - 185	35 - 185	**SV310**	32	32	80	6	M18x1.5	25	16	4
Without shear head, tin-plated										
Cu 2.5/ Al 6 - 35	Cu 2.5/Al 6 - 50	**SV315V**	16	17.5	40	4	M10x1	9	1.7	4
16 - 95	16 - 95	**SV309V**	25	22	55	5	M12x1	20	6.6	4
--	35 - 150	**SV320V**	28	31	70	6	M18x1.5	25	11.3	4
35 - 185	35 - 185	**SV310V**	32	32	80	6	M18x1.5	25	16	4
With shear head, bright finished										
6 - 25	6 - 35	**SV311AKNL**	14	17.5	40	4	M8x1	8	1.5	4
6 - 35	--	**SV312AKNL**	16	17.5	40	4	M10x1	8	1.7	4
16 - 95	16 - 95	**SV309AK**	25	22	55	5	M12x1	20	6.6	4
35 - 185	35 - 185	**SV310AK**	32	32	80	6	M18x1.5	25	16	4
With shear head, tin-plated										
Cu 2.5/ Al 6-35	Cu 2.5/Al 6-50	**SV312AKNLV**	16	17.5	40	4	M10x1	8	1.7	4
16 - 35	16 - 50	**SV319AKNLV**	22	24	57	4	M12x1	15	7.6	4
16 - 95	16 - 95	***SV309AKV**	25	22	55	5	M12x1	20	6.6	4
35 - 185	35 - 185	***SV310AKV**	32	32	80	6	M18x1.5	25	16	4

- sm/se - conductor needs to be pre-rounded
- rm = round multi-stranded
- rm (v) = round multi-stranded compacted
- sm = sector stranded
- re = round solid
- se = sector solid

Please observe instructions at "Technical appendix" on page i-9

Screw connectors with 4 screws



- **Ideal for connecting identical and different conductor cross-sections**
- **For connecting different conductor types and materials, e.g. to VDE 0295 Class 1 and 2 and Al conductors to DIN 48201 part 5**
- **With inspection hole for monitoring cable entry (dissimilar materials must not come into contact)**

Characteristics

- Total cross-section: 25 - 185 mm²
- Special grooved profile inside for removing the oxidation layer when screwing
- Either with or without shear head
- Version with 4 screws

Material

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

Surface

- Bright finished or tin-plated

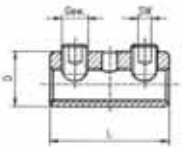
Nominal cross section mm²			Dimension mm		bolt data			Weight/ 100 pcs.	
rm/sm	rm(v)/re/se	Part No.	D	L	AF	Thread	Md Nm	~ kg	Packing unit/pcs
Without shear head, bright finished									
25 - 95	25 - 95	**SV305**	25	92	5	M12x1	20	12	4
35 - 185	35 - 185	**SV306**	32	108	6	M18x1.5	25	25	4
Without shear head, tin-plated									
25 - 95	25 - 95	**SV305V**	25	92	5	M12x1	20	12	4
35 - 185	35 - 185	**SV306V**	32	108	6	M18x1.5	25	25	4
With shear head, bright finished									
25 - 95	25 - 95	**SV305AK**	25	92	5	M12x1	20	12	4
35 - 185	35 - 185	**SV306AK**	32	108	6	M18x1.5	25	25	4
With shear head, tin-plated									
25 - 95	25 - 95	**SV305AKV**	25	92	5	M12x1	20	12	4
35 - 185	35 - 185	**SV306AKV**	32	108	6	M18x1.5	25	25	4

- sm/se - conductor needs to be pre-rounded
- rm = round multi-stranded
- rm (v) = round multi-stranded compacted
- sm = sector stranded
- re = round solid
- se = sector solid

Please observe instructions at "Technical appendix" on page i-9

Insulated screw connectors

- Ideal for connecting identical and different conductor cross-sections
- For connecting different conductor types and materials, e.g. to VDE 0295 Class 1 and 2 and Al conductors to DIN 48201 part 5
- With inspection hole for monitoring cable entry (dissimilar materials must not come into contact)



Characteristics

- Total cross-section: 6 - 185 mm²
- Special grooved profile inside for removing the oxidation layer when screwing
- Insulated body
- Version with 2 screws, without barrier
- Either with or without shear head

Material

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

Surface

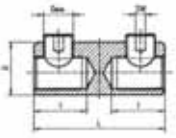
- Bright finished or tin-plated

Nominal cross section mm²			Dimension mm		bolt data			Weight/ 100 pcs.	
rm/sm	rm(v)/re/se	Part No.	D	L	AF	Thread	Md Nm	~ kg	Packing unit/pcs
Without shear head, bright finished									
6 - 25	6 - 35	**SV400**	14	40	4	M8x1	8	1.7	4
25 - 95	25 - 95	**SV410**	25	55	5	M12x1	20	6	4
35 - 185	35 - 185	**SV420**	32	80	6	M18x1.5	25	14.5	4
Without shear head, tin-plated									
16 - 35	16 - 50	**SV405V**	22	57	5	M10x1.5	15	5	4
35 - 185	35 - 185	**SV420V**	32	80	6	M18x1.5	25	14.5	4
With shear head, bright finished									
25 - 95	25 - 95	**SV410AK**	25	55	5	M12x1	20	6	4
35 - 185	35 - 185	**SV420AK**	32	80	6	M18x1.5	25	14.5	4

- rm = round multi-stranded
- rm (v) = round multi-stranded compacted
- sm = sector stranded
- re = round solid
- se = sector solid
- sm/se - conductor needs to be pre-rounded

Please observe instructions at "Technical appendix" on page i-9

Insulated screw connectors with barrier



- **Ideal for connecting identical and different conductor cross-sections**
- **For connecting different conductor types and materials, e.g. to VDE 0295 Class 1 and 2 and Al conductors to DIN 48201 part 5**

Characteristics

- Total cross-section: 25 - 185 mm²
- Special grooved profile inside for removing the oxidation layer when screwing
- Insulated body
- Version with 2 screws
- Either with or without shear head

Material

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

Surface

- Bright finished

Order info

- ** = Version with fixed countersink shear head, part number appendix "VK"

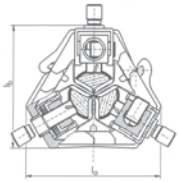
Nominal cross section mm²			Dimension mm			bolt data			Weight/ 100 pcs.	Packing unit/
rm/sm	rm(v)/re/se	Part No.	D	l	L	AF	Thread	Md Nm	~ kg	pcs
Without shear head										
25 - 95	25 - 95	**SV430**	25	22	55	5	M12x1	20	6.6	4
35 - 185	35 - 185	**SV440**	32	32	80	6	M18x1.5	25	16.0	4
With shear head										
25 - 95	25 - 95	**SV430AK**	25	22	55	5	M12x1	20	6.6	4
35 - 185	35 - 185	****SV440AK**	32	32	80	6	M 18 x 1.5	25	16.0	4

- sm/se - conductor needs to be pre-rounded
- rm = round multi-stranded
- rm (v) = round multi-stranded compacted
- sm = sector stranded
- re = round solid
- se = sector solid

Please observe instructions at "Technical appendix" on page i-9

Compact tap connectors with shear head, for three conductor cable

- Suitable for main and branch conductors made from Al and Cu
- The split of the main conductor is omitted
- For use e.g. with energy suppliers



Characteristics

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

Nominal cross section mm² Main conductor				Tap conductor			Clamp data Dimension mm			Bolts				
Cu rm/ sm	Cu rm(v) / re/se	Al rm/sm	Al rm(v) / re/se	rm/sm	rm(v)/ re/se	Part No.	la	lb	Width	Circle dia.	AF	Thread	Weight/ pcs. ~kg	Packing unit/pcs
70 - 150	70 - 150	70 - 150	70 - 150	6 - 70	6 - 95	**KSK1503**	84	76	45	90	5	M10x1/ M10	0.35	1

- sm/se - conductor needs to be pre-rounded
- rm = round multi-stranded
- rm (v) = round multi-stranded compacted
- sm = sector stranded
- re = round solid
- se = sector solid

Please observe instructions at the Technical Appendix" on page i-10 and the corresponding assembly tools on page 476

Compact tap connectors with shear head, for four conductor cable

- Suitable for main and branch conductors made from Al and Cu
- The split of the main conductor is omitted
- For use e.g. with energy suppliers

Characteristics

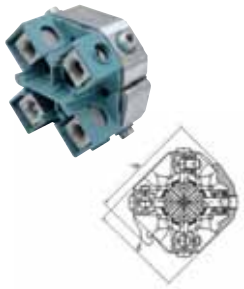
- To VDE, can be installed under voltage with corresponding fully insulated assembly tools
- With shear heads for the main conductor, fixed

Nominal cross section mm² Main conductor				Tap conductor			Clamp data Dimension mm			Bolt data				
Cu rm/sm	Cu rm(v) / re/se	Al rm/sm	Al rm(v) / re/se	rm/sm	rm(v)/ re/se	Part No.	la	lb	Width	Circle dia.	AF	Thread	Weight/ pcs. ~kg	Packing unit/pcs
70 - 150	70 - 150	70 - 150	70 - 150	6 - 70	6 - 95	**KSK1504**	107	90	46	110	5	M10x1/ M10	0.63	1
70 - 150	70 - 150	70 - 150	70 - 185	6 - 35	6 - 50	**KSK1854**	107	90	52	106	5	M10x1/ M10	0.58	1

- sm/se - conductor needs to be pre-rounded
- rm = round multi-stranded
- rm (v) = round multi-stranded compacted
- sm = sector stranded
- re = round solid
- se = sector solid

Please observe instructions at the "Technical Appendix" on page i-10 and the corresponding assembly tools at page 476

Compact tap connector, for four conductor cable, for main conductor 25-50 mm² Cu rm/sm



- Suitable for main and branch conductors made from Al and Cu
- The split of the main conductor is omitted
- For use e.g. with energy suppliers

Characteristics

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

Nominal cross section mm² Main conductor				Tap conductor			Dimension mm			Bolt data				
Cu rm/sm	Cu rm(v) / re/se	Al rm/sm	Al rm(v) / re/se	rm/sm	rm(v)/ re/se	Part No.	la	lb	Width	Circle dia.	AF	Thread	Weight/ pcs. ~kg	Packing unit/pcs
25 - 50	25 - 50	25 - 50	35 - 70	6 - 35	6 - 50	**KSK504**	88	75	50	91	5	M10x1/ M10	0.46	1

- sm/se - conductor needs to be pre-rounded
- rm = round multi-stranded
- rm (v) = round multi-stranded compacted
- sm = sector stranded
- re = round solid
- se = sector solid

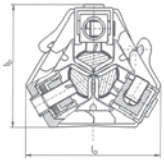
Please observe instructions at the Technical Appendix" on page i-11 and the corresponding assembly tools on page 476

Compact tap connectors, for three conductor cable

- Suitable for main and branch conductors made from Al and Cu
- The split of the main conductor is omitted
- For use e.g. with energy suppliers

Characteristics

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



Nominal cross section mm² Main conductor				Tap conductor			Dimension mm			Bolt data				
Cu rm/sm	Cu rm(v) / re/se	Al rm/sm	Al rm(v) / re/se	rm/sm	rm(v)/ re/se	Part No.	la	lb	Width	Circle dia.	AF	Thread	Weight/ pcs. ~kg	Packing unit/pcs
70 - 150	70 - 150	70 - 150	70 - 150	6 - 70	6 - 95	**SKR1503**	84	76	45	90	5	M10x1/ M10	0.38	1

- sm/se - conductor needs to be pre-rounded
- rm = round multi-stranded
- rm (v) = round multi-stranded compacted
- sm = sector stranded
- re = round solid
- se = sector solid

Please observe instructions at the Technical Appendix" on page i-10 and the corresponding assembly tools at page 476

Compact tap connectors, for four conductor cables, for main conductor 70 - 150 mm² Cu rm/sm

- Suitable for main and branch conductors made from Al and Cu
- The split of the main conductor is omitted
- For use e.g. with energy suppliers

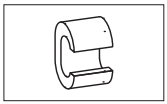
Characteristics

- To VDE, can be installed under voltage with corresponding fully insulated assembly tools
- Suitable for main and branch conductors made from Al and Cu

Nominal cross section mm² Main conductor				Tap conductor			Dimension mm			Bolt data				
Cu rm/sm	Cu rm(v) / re/se	Al rm/sm	Al rm(v) / re/se	rm/sm	rm(v)/ re/se	Part No.	la	lb	Width	Circle dia.	AF	Thread	Weight/ pcs. ~kg	Packing unit/pcs
70 - 95	70 - 95	70 - 95	70 - 120	6 - 35	6 - 50	**SKR1204**	90	77	50	93	5	M10x1/ M10	0.46	1
70 - 120	70 - 120	70 - 120	70 - 150	6 - 35	6 - 50	**SKR150504**	93	80	50	62	5	M10x1/ M10	0.46	1
70 - 120	70 - 120	70 - 150	70 - 150	6 - 70	6 - 95	**SKR1504**	107	90	46	110	5	M10x1/ M10	0.62	1
95 - 150	95 - 150	95 - 150	95 - 150	16 - 120	16 - 150	**SKR1501504**	118	118	93	120	5	M12x1/ M12	1.34	1
95 - 150	95 - 150	95 - 150	95 - 185	6 - 70	6 - 95	**SKR1854**	107	96	46	114	5	M10x1/ M10	0.58	1

- sm/se - conductor needs to be pre-rounded
- rm = round multi-stranded
- rm (v) = round multi-stranded compacted
- sm = sector stranded
- re = round solid
- se = sector solid

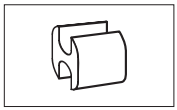
Please observe instructions at the Technical Appendix" on page i-10 and the corresponding assembly tools at page 476



Tool application chart

C-Clamps

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
4-35	K354			•					⬭	260
	EK354					•			⬭	314
	EK354L					•			⬭	316
4-50	K18			•					⬭	262
	HK6018				•				⬭	286
	EK5018L					•			⬭	320
	PK18							•	⬭	362
	THK18						•		⬭	362
	HK60UNV	+ UA18			•				⬭	354
	EK60UNVL	+ UA18				•			⬭	357
	EKM60UNVL	+ UA18				•			⬭	356
	PK60UNV	+ UA18						•	⬭	355
	K22			•					⬭	264
	HK6022				•				⬭	288
	EK6022L					•			⬭	324
	EKM6022L					•			⬭	322
	PK22							•	⬭	364
	THK22						•		⬭	364
	HK60UNV	+ UA22			•				⬭	354
	EK60UNVL	+ UA22				•			⬭	357
	EKM60UNVL	+ UA22				•			⬭	356
	PK60UNV	+ UA22						•	⬭	355
10-70	HK12030				•				⬭	292
	HK12042				•				⬭	294
	HK120U				•				⬭	296
	EK12030L					•			⬭	330
	EK12042L					•			⬭	332
	EK120UL					•			⬭	334
	EK120UNVL					•			⬭	358
	HK122EL380						•		⬭	390
	PK12042							•	⬭	368
	PK120U							•	⬭	370
10-185	HK252						•		⬭	388
	HK252EL380						•		⬭	391
	PK252							•	⬭	372



Tool application chart

H-Clamps

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
70	K22			•					⬭	264
	HK6022				•				⬭	288
	EK6022L					•			⬭	324
	EKM6022L					•			⬭	322
	EK60UNVL	+ UA22				•			⬭	357
	THK22						•		⬭	364
	PK22							•	⬭	364
70-120	HK12030				•				⬭	292
	HK12042				•				⬭	294
	HK120U				•				⬭	296
	EK12030L					•			⬭	330
	EK12042L					•			⬭	332
	EK120UL					•			⬭	334
	EK120UNVL					•			⬭	358
	HK122EL380						•		⬭	390
	PK12042							•	⬭	368
	PK120U							•	⬭	370
	HK252						•		⬭	388
	HK252EL380						•		⬭	391
	PK252							•	⬭	372

KLAUKE®

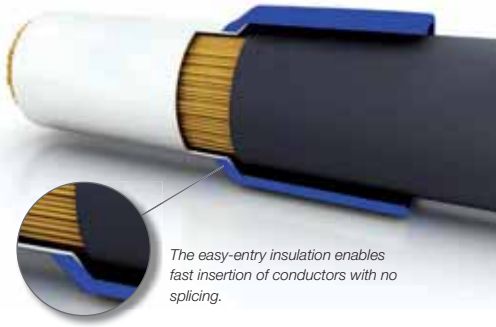
No more spliced conductors.

Non-insulated and insulated cable end-sleeves.

Crimped cable end-sleeves avoid splicing of individual wires of fine and superfine stranded copper conductors. In addition, cables can be inserted into connecting terminals much more easily, effective electrical connections in the terminals being guaranteed.

Cable end-sleeves are made from high quality electrolytic copper and are tin or silver-plated to prevent oxidation.

- **Non-insulated cable end-sleeves to DIN 46228, Part 1.**
- **Insulated cable end-sleeves to DIN 46228, Part 4, with CSA testing.**
- **Insulated twin cable end sleeves for conductor loops.**
- **Insulated cable end-sleeves for short circuit-resistant conductors.**



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

Non-insulated cable end-sleeves **in all sizes and lengths.**

- With nominal cross sections from 0.25 mm² to 240 mm².
- Also silver plated design.

Benefits:

- Fine and superfine stranded conductors up to a nominal cross section of 240 mm² can be crimped to the standardized chamber dimension without splicing and within the DIN range.
- The silver plated design provides excellent conductivity and outstanding contact properties and are the ideal solution for applications in aggressive environments.
- Klauke crimping profiles, such as the special trapezoid crimp, enable crimping of thinned, compacted or fine stranded conductors.

Polypropylene *makes the difference.*

- Insulated cable end-sleeves with nominal cross-sections from 0.14 mm² to 150 mm².
- Calibrated cable end-sleeves **can be used in fully-automated cable harness processing**.
- Designs to DIN 46228, Part 4, and two further colour codes.
- In different lengths.
- With easy-entry polypropylene insulation for continuous load to 105 °C.
- Halogen-free
- CSA-tested designs.
- With nominal cross-sections from 1.5 mm² to 16 mm² for short circuit-resistant conductors.

Benefits:

- The conductors can be **connected to the clamps better and faster** after crimping.
- Calibrated precision.
- Easy-entry polypropylene insulation for simple conductor insertion.
- Halogen-free insulation prevents hydrochloric acid-containing vapours from developing in case of fire.
- Permanently safe installation with heat and age-resistant plastic collars.

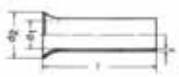
Simple, **multiple** *population.*

- Twin cable end-sleeves with nominal cross sections from 0.25 mm² to 16 mm².
- In different lengths.
- DIN colour code.
- Halogen-free polypropylene insulation.
- CSA-tested.

Benefits:

- In tight areas, twin cable end-sleeves are often the only alternative for conductor loops.
- **The solution for multiple configuration of clamps.**

Cable end-sleeves, acc. to DIN, copper



- For fine and superfine stranded conductors, e.g. VDE 0295 Class 5 and 6
- Burr-free, with expansion for easy cable insertion
- Crimped cable end-sleeves for easy mounting to cable clamps

Characteristics

- Total cross-section: 0.25 - 240 mm²
- Acc. to DIN 46228 part 1 and similar versions

Material

- Copper acc. to EN 13600

Surface

- Tin-plated

Order info

- Silver plated version also available, without part number appendix "V", exception: part number 705V silver plated = part number 7050

Nominal cross section mm²	Part No.	Dimension mm d1	d2	l	s	Weight/ 1000 pcs.~ kg	Packing unit/pcs
0.25	*695V	0.75	1.7	5	0.15	0.02	1000
	*697V	0.75	1.7	7	0.15	0.03	1000
0.34	*705V	0.85	1.8	5	0.15	0.02	1000
	*707V	0.85	1.8	7	0.15	0.03	1000
0.5	71S6V	1.00	2.1	6	0.15	0.03	1000
	*71S8V	1.00	2.1	8	0.15	0.04	1000
	71S10V	1.00	2.1	10	0.15	0.05	1000
0.75	716V	1.20	2.3	6	0.15	0.04	1000
	*718V	1.20	2.3	8	0.15	0.05	1000
	7110V	1.20	2.3	10	0.15	0.06	1000
	*7112V	1.20	2.3	12	0.15	0.08	1000
	*7115V	1.20	2.3	15	0.15	0.09	1000
1	72S6V	1.40	2.5	6	0.15	0.04	1000
	*72S8V	1.40	2.5	8	0.15	0.06	1000
	72S10V	1.40	2.5	10	0.15	0.07	1000
	*72S12V	1.40	2.5	12	0.15	0.08	1000
	*72S15V	1.40	2.5	15	0.15	0.10	1000
1.5	*726V	1.70	2.8	6	0.15	0.05	1000
	727V	1.70	2.8	7	0.15	0.06	1000
	*728V	1.70	2.8	8	0.15	0.07	1000
	7210V	1.70	2.8	10	0.15	0.09	1000
	7212V	1.70	2.8	12	0.15	0.10	1000
	*7215V	1.70	2.8	15	0.15	0.13	1000
	7218V	1.70	2.8	18	0.15	0.15	1000
	*7220V	1.70	2.8	20	0.15	0.17	1000
2.5	737V	2.20	3.4	7	0.15	0.08	1000
	*738V	2.20	3.4	8	0.15	0.09	1000
	7310V	2.20	3.4	10	0.15	0.11	1000
	7312V	2.20	3.4	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, acc. to DIN, Cu

Nominal cross section mm²	Part No.	Dimension mm d1	d2	l	s	Weight/ 1000 pcs.~ kg	Packing unit/pcs
4	*748V	2.80	4.0	8	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	7.3	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	8.3	11.0	25	0.2	1.80	50
	*7930V	8.3	11.0	30	0.2	2.20	50
	7932V	8.3	11.0	32	0.2	2.35	50
50	8018V	10.5	13.0	18	0.3	1.69	50
	*8022V	10.5	13.0	22	0.3	2.05	50
	8025V	10.5	13.0	25	0.3	2.32	50
	*8030V	10.5	13.0	30	0.3	2.77	50
	8032V	10.5	13.0	32	0.3	2.95	50
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

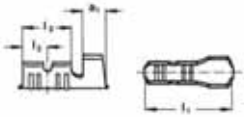
Cable end-sleeves, acc. to DIN, Cu

Nominal cross section mm²	Part No.	Dimension mm d1	d2	l	s	Weight/ 1000 pcs.~ kg	Packing unit/pcs
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	24.0	34	0.5	11.25	25
	*8640V	23.0	24.0	40	0.5	13.23	25

* = not standardized

Tools: see chart page 165

Cable end -sleeves, acc. to DIN, brass



- For fine and superfine stranded conductors, e.g. VDE 0295 Class 5 and 6
- Crimped cable end-sleeves for splice-free mounting to cable clamps

Characteristics
- Total cross-section: 0.5 - 2.5 mm²
- Acc. to DIN 46228, part 2

Material
- Brass (CuZn)

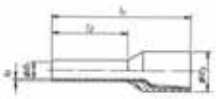
Surface
- Tin-plated to protect against corrosion

Nominal cross section mm²	Nominal size to DIN	Part No.	Dimension mm a1	l1	l2	l3	s	Weight/ 1000 pcs.~ kg	Packing unit/pcs
0.5-1	B 1 - 7	SH271	2.5	11	3.5	7	0.3	0.20	100
1.5	B 1.5 - 7	SH272	2.5	11	3.5	7	0.3	0.23	100
2.5	B 2.5 - 7	SH273	2.5	11	3.5	7	0.3	0.32	100

Tools: see chart page 167

Insulated cable end-sleeves, acc. to DIN, Easy Entry

- For fine and superfine stranded conductors
- Easy-Entry insulation for easy cable insertion
- Crimped cable end-sleeves for easy mounting to cable clamps



Characteristics

- Total cross-section: 0.5 - 150 mm²
- Colour-coding and tube dimension to DIN 46228, part 4 (0.5 - 50 mm²)
- Halide free
- Heat resistant to 105° C

Material

- Copper acc. to EN 13600
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

Order info

- Now also available in handy plastic boxes for smaller requirements, part number appendix "SB"

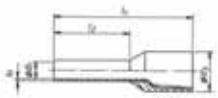
Nominal cross section mm²	Part No.	Colour	Dimension mm d1	d3	l1	l2	s1	Weight/ 1000 pcs.~ kg	Packing unit/ pcs
0.5	4696		1.0	3.1	12	6	0.15	0.070	1000
	4698		1.0	3.1	14	8	0.15	0.070	1000
	GR4698		1.0	3.1	14	8	0.15	0.070	500 ***
	46910		1.0	3.1	16	10	0.15	0.085	1000
0.75	4706		1.2	3.3	12	6	0.15	0.080	1000
	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
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

Insulated cable end-sleeves, acc. to DIN, Easy Entry

Nominal cross section mm²	Part No.	Colour	Dimension mm d1	d3	l1	l2	s1	Weight/ 1000 pcs.~ kg	Packing unit/pcs
25	**47816**		7.3	12.0	30	16	0.20	1.600	50
	47818		7.3	12.0	32	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	32	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**		14.7	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

- * = not standardized
- ** = Also available in small handy packs
- *** = Quantity per bag
- **Tools: see chart page 168**

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



- **For fine and superfine stranded conductors**
- **Easy-Entry insulation for easy cable insertion**
- **Crimped cable end-sleeves for easy mounting to cable clamps**

Characteristics

- Total cross-section: 0.14 - 50 mm²
- Acc. to DIN 46228, part 4 (0.5 - 50 mm²)
- Halide free
- Heat resistant to 105° C

Material

- Copper acc. to EN 13600
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

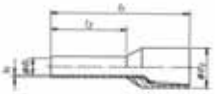
Nominal cross section mm²	Part No.	Colour	Dimension mm d1	d3	l1	l2	s1	Weight/ 1000 pcs.~ kg	Packing unit/ pcs
0.14	***166GR**		0.7	2.3	10.4	6	0.12	0.035	1000
	***166GRL**		0.7	2.3	12.4	8	0.12	0.040	1000
0.25	***167H**		0.8	2.3	10.4	6	0.15	0.045	1000
	***167HL**		0.8	2.3	12.4	8	0.15	0.050	1000
0.34	***168T**		0.8	2.5	10.4	6	0.15	0.045	1000
	***168TL**		0.8	2.5	12.4	8	0.15	0.050	1000
0.5	**1690K**		1.0	3.0	12.0	6	0.15	0.070	1000
	1690		1.0	3.0	14.0	8	0.15	0.070	1000
	GR1690		1.0	3.0	14.0	8	0.15	0.070	500 **
	1690H		1.0	3.0	16.0	10	0.15	0.085	1000

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

Nominal cross section mm²	Part No.	Colour	Dimension mm d1	d3	l1	l2	s1	Weight/ 1000 pcs.~ kg	Packing unit/ pcs
0.75	**170WK**		1.2	3.2	12.4	6	0.15	0.080	1000
	170W		1.2	3.2	14.6	8	0.15	0.080	1000
	GR170W		1.2	3.2	14.6	8	0.15	0.080	500 **
	170WH		1.2	3.2	16.4	10	0.15	0.100	1000
	170WL		1.2	3.2	18.4	12	0.15	0.105	1000
1	**171GK**		1.4	3.5	12.4	6	0.15	0.090	1000
	171G		1.4	3.5	14.6	8	0.15	0.100	1000
	GR171G		1.4	3.5	14.6	8	0.15	0.100	500 **
	171GH		1.4	3.5	16.4	10	0.15	0.120	1000
	171GL		1.4	3.5	18.4	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	14.6	8	0.15	0.110	1000
	GR172RO		1.7	4.0	14.6	8	0.15	0.110	500 **
	172RH		1.7	4.0	16.4	10	0.15	0.130	1000
	172RM		1.7	4.0	18.4	12	0.15	0.140	1000
	172RL		1.7	4.0	24.4	18	0.15	0.190	1000
2.5	**173B**		2.3	4.9	15.2	8	0.15	0.150	1000
	GR173B		2.3	4.9	15.2	8	0.15	0.150	500 **
	173BH		2.3	4.9	19.0	12	0.15	0.200	1000
	173BL		2.3	4.9	25.0	18	0.15	0.250	1000
4	**174GR**		2.9	5.5	16.5	10	0.15	0.210	100
	174GRH		2.9	5.5	19.5	12	0.15	0.250	100
	174GRL		2.9	5.5	25.5	18	0.15	0.320	100
6	**175S**		3.5	6.3	20.0	12	0.20	0.350	100
	175SL		3.5	6.3	26.0	18	0.20	0.460	100
10	**176E**		4.5	8.0	21.5	12	0.20	0.450	100
	176EL		4.5	8.0	27.5	18	0.20	0.650	100
16	**177GR**		5.8	9.6	22.2	12	0.20	0.650	100
	177GRL		5.8	9.6	28.2	18	0.20	0.800	100
25	**178BR**		7.3	12.1	29.0	16	0.20	1.600	50
	178BRL		7.3	12.1	35.0	22	0.20	2.000	50
35	**179B**		8.3	13.6	30.0	16	0.20	1.900	50
	179BL		8.3	13.6	39.0	25	0.20	2.500	50
50	**180O**		10.3	16.4	36.4	20	0.35	3.300	50
	180OL		10.3	16.4	41.4	25	0.35	4.000	50

- * = not standardized
- ** = Quantity per bag
- **Tools: see chart page 168**

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



- For fine and superfine stranded conductors
- Easy-Entry insulation for easy cable insertion
- Crimped cable end-sleeves for easy mounting to cable clamps

Characteristics

- Total cross-section: 0.14 - 25 mm²
- Acc. to DIN 46228, part 4 (0.5 - 25 mm²)
- Halide free
- Heat resistant to 105° C

Material

- Copper acc. to EN 13600
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm²	Part No.	Colour	Dimension mm d1	d3	l1	l2	s1	Weight/ 1000 pcs.~ kg	Packing unit/ pcs
0.14	*1666		0.7	2.4	10.4	6	0.12	0.035	1000
	*1668		0.7	2.4	12.4	8	0.12	0.040	1000
0.25	*1676		0.8	2.5	11.0	6	0.15	0.045	1000
	*1678		0.8	2.5	13.0	8	0.15	0.050	1000
0.34	*1686		0.8	2.5	11.0	6	0.15	0.045	1000
	*1688		0.8	2.5	13.0	8	0.15	0.050	1000
0.5	1696		1.0	3.1	11.0	6	0.15	0.070	1000
	1698		1.0	3.1	13.0	8	0.15	0.080	1000
	GR1698		1.0	3.1	13.0	8	0.15	0.080	500**
0.75	1706		1.2	3.2	11.5	6	0.15	0.080	1000
	1708		1.2	3.2	13.5	8	0.15	0.095	1000
	GR1708		1.2	3.2	13.5	8	0.15	0.095	500**
1	1716		1.4	3.4	11.5	6	0.15	0.085	1000
	1718		1.4	3.4	13.5	8	0.15	0.100	1000
	GR1718		1.4	3.4	13.5	8	0.15	0.100	500**
1.5	1726		1.7	3.9	11.5	6	0.15	0.100	1000
	1728		1.7	3.9	13.5	8	0.15	0.120	1000
	GR1728		1.7	3.9	13.5	8	0.15	0.120	500**
	17210		1.7	3.9	16.4	10	0.15	0.130	1000
	17212		1.7	3.9	18.4	12	0.15	0.140	1000
	17218		1.7	3.9	22.8	18	0.15	0.220	1000
2.5	1738		2.2	4.7	14.5	8	0.15	0.140	1000
	GR1738		2.2	4.7	14.5	8	0.15	0.140	500**
	17312		2.2	4.7	19.0	12	0.15	0.200	1000
	17318		2.2	4.7	24.0	18	0.15	0.280	1000
4	17410		2.8	5.5	16.5	10	0.20	0.260	100
	17412		2.8	5.5	20.0	12	0.20	0.300	100
	17418		2.8	5.5	25.5	18	0.20	0.390	100
6	17512		3.5	7.0	20.0	12	0.20	0.410	100
	17518		3.5	7.0	26.0	18	0.20	0.530	100
10	17612		4.5	8.4	21.5	12	0.20	0.550	100
	17618		4.5	8.4	27.0	18	0.20	0.710	100
16	17712		5.8	9.8	23.5	12	0.20	0.660	100
	17718		5.8	9.8	29.0	18	0.20	0.850	100

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

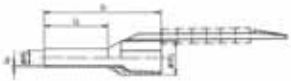
Nominal cross section mm²	Part No.	Colour	Dimension mm d1	d3	l1	l2	s1	Weight/ 1000 pcs.~ kg	Packing unit/ pcs
25	**17816**	■	7.3	12.0	28.0	16	0.20	1.500	50
	17818	■	7.3	12.0	30.0	18	0.20	1.550	50
	17822	■	7.3	12.0	34.0	22	0.20	2.000	50

- * = not standardized
- ** = Quantity per bag
- **Tools: see chart page 168**

Insulated cable end-sleeves with lug

- **For fine and superfine stranded conductors**
- **With identification system for max. 6 identification rings**

Characteristics
- Total cross-section: 0.5 - 2.5 mm²
- Dimensions acc. to DIN 46228 part 4
- Insulated, halogen-free
- Heat resistant to 105° C
- Easy-Entry insulation for easy cable insertion



Material
- Copper acc. to EN 13600
- Synthetic material: polypropylene

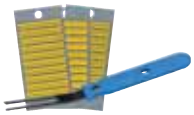
Surface
- Tin-plated to protect against corrosion

Nominal cross section mm²	Part No.	Colour	Dimension mm d1	d3	l1	l2	s1	Weight/ 1000 pcs.~ kg	Packing unit/pcs
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

- **Tools: see chart page 168**

Identification rings and insert fork

- **For identifying insulated cable end-sleeves with lugs**

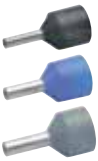


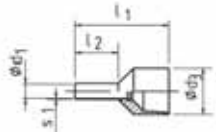
Characteristics
- Differing numbers / letters in the identification rings
- Packaging unit in booklet format, 200 of each symbol
- Insert fork A300 for inserting the identification rings on the insulated cable end-sleeves

Part No.	Colour	Packing unit/pcs
Identification rings		
380/-	■	1
380/+	■	1
380/0 bis 9	■	1
380/A bis Z*	■	1
Insert fork		
A300		1

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

Insulated cable end-sleeves for short circuit resistant conductors





- For short circuit resistant conductors (e.g. NSGAFOU)
- Crimped cable end-sleeves for easy mounting to cable clamps

Characteristics

- Total cross-section: 1.5 - 16 mm²
- Insulated, halogen-free
- Heat resistant to 105° C
- Easy-Entry insulation for easy cable insertion
- Colour-coded cross-section assignment

Material

- Copper acc. to EN 13600
- Synthetic material: polypropylene

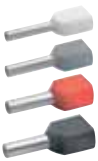
Surface

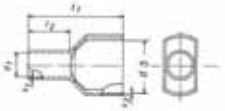
- Tin-plated to protect against corrosion

Nominal cross section mm²	Part No.	Colour	Dimension mm d1	d3	l1	l2	s1	Weight/ 1000 pcs.~ kg	Packing unit/pcs
1.5	**4328**	■	1.8	8.1	17.5	8	0.15	0.22	100
	43210	■	1.8	8.1	19.5	10	0.15	0.27	100
2.5	**4338**	■	2.3	8.6	17.5	8	0.15	0.24	100
	43312	■	2.3	8.6	21.5	12	0.15	0.36	100
4	**43410**	■	2.9	10.5	19.5	10	0.20	0.36	100
6	**43512**	■	3.6	11.0	23.0	12	0.20	0.49	100
10	**43612**	■	4.6	11.7	24.0	12	0.20	0.65	100
16	**43712**	■	6.0	14.4	25.5	12	0.20	0.93	100

Tools: see chart page 168

Insulated twin cable end-sleeves





- For fine and superfine stranded conductors
- For multi purpose use of clamps
- Colour-coding following DIN 46228 part 4 (0.5 - 16 mm²)
- Crimped cable end-sleeves for easy mounting to cable clamps

Characteristics

- Total cross-section: 2 x 0.25 - 2 x 16 mm²
- Insulated, halogen-free
- Heat resistant to 105° C
- Easy-Entry insulation for easy cable insertion

Material

- Copper acc. to EN 13600
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion (other surfaces available upon request)

Nominal cross section mm²	Part No.	Colour	Dimension mm d1	d3	l1	l2	s1	s2	Weight/ 1000 pcs.~ kg	Packing unit/ pcs
2 x 0.25	**8678**	■	1.15	1.8/3.4	15.0	8	0.15	0.25	0.110	1000
2 x 0.34	**8688**	■	1.15	1.8/3.4	15.0	8	0.15	0.25	0.110	1000
2 x 0.5	**8698**	□	1.50	2.5/4.7	15.0	8	0.15	0.25	0.110	1000
2 x 0.75	**8708**	■	1.80	2.8/5.0	15.0	8	0.15	0.25	0.130	1000
2 x 0.75	**87010**	■	1.80	2.8/5.0	17.0	10	0.15	0.25	0.150	1000

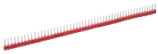
Insulated twin cable end-sleeves

Nominal cross section mm²	Part No.	Colour	Dimension mm d1	d3	l1	l2	s1	s2	Weight/ 1000 pcs.~ kg	Packing unit/ pcs
2 x 1	**8718**		2.05	3.4/5.4	15.0	8	0.15	0.30	0.170	1000
	87110		2.05	3.4/5.4	17.0	10	0.15	0.30	0.170	1000
2 x 1.5	**8728**		2.30	3.6/6.6	16.0	8	0.15	0.30	0.183	1000
	87212		2.30	3.6/6.6	20.0	12	0.15	0.30	0.237	1000
2 x 2.5	**87310**		2.90	4.2/7.8	18.5	10	0.20	0.30	0.312	100
	87313		2.90	4.2/7.8	21.5	13	0.20	0.30	0.340	100
2 x 4	**87412**		3.80	4.9/8.8	23.0	12	0.20	0.30	0.467	100
2 x 6	**87514**		4.90	6.9/10.0	26.0	14	0.20	0.40	0.730	100
2 x 10	**87614**		6.50	7.2/13.0	26.0	14	0.20	0.40	0.884	100
2 x 16	**87714**		8.30	9.6/18.4	30.0	14	0.20	0.40	1.273	100

Tools: see chart page 171

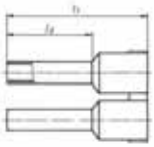
Insulated cable end-sleeves, strips

- **For fine and superfine stranded conductors**
- **Crimped cable end-sleeves for easy mounting to cable clamps**



Characteristics

- Total cross-section: 0.5 - 2.5 mm²
- Colour-coding and tube dimension to DIN 46228, part 4
- Insulated, halogen-free
- Heat resistant to 105° C
- Easy-Entry insulation for easy cable insertion



Material

- Copper acc. to EN 13600
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm²	Part No.	Colour	Dimension mm l1	l2	Weight/ 1000 pcs.~ kg	Packing unit/pcs
0.5	**ST9698**		14	8	0.100	500
0.75	**ST9708**		14	8	0.100	500
1	**ST9718**		14	8	0.100	500
1.5	**ST9728**		14	8	0.100	500
2.5	**ST9738**		14	8	0.100	500

Insulated cable end-sleeves, small coil

- For fine and superfine stranded conductors
- Easy-Entry insulation for easy cable insertion
- Crimped cable end-sleeves for easy mounting to cable clamps
- Coiled insulated cable-end sleeves for machine processing

Characteristics

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

Material

- Copper acc. to EN 13600
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm²	Part No.	Colour	Dimension mm l1	Dimension mm l2	Weight/ 1000 pcs.~ kg	Packing unit/pcs
0.5	**BAK9698**		14	8	0.136	1100
0.75	**BAK9708**		14	8	0.154	1100
1	**BAK9718**		14	8	0.187	800
1.5	**BAK9728**		14	8	0.200	800
2.5	**BAK9738**		14	8	0.300	500

Insulated cable end-sleeves, large coil

- For fine and superfine stranded conductors
- Easy-Entry insulation for easy cable insertion
- Crimped cable end-sleeves for easy mounting to cable clamps
- Coiled insulated cable-end sleeves for machine processing

Characteristics

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

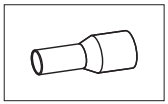
Material

- Copper acc. to EN 13600
- Synthetic material: polypropylene

Surface

- Tin-plated to protect against corrosion

Nominal cross section mm²	Part No.	Colour	Dimension mm l1	Dimension mm l2	Weight/ 1000 pcs.~ kg	Packing unit/pcs
0.5	**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
acc. to DIN 46228, part 1

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
0,14-2,5	K1		•						▭	224
	K48		•						▭	224
0,14-6	K32		•						▭	225
	K37		•						▭	226
	KP1	+KP312		•					▭	256
	KP1L	+KP312		•					▭	256
	EKP1	+KP312				•			▭	312
	TEKP1	+KP312		•					▭	281
	KPM15	+KP312		•					▭	282
0,14-10	K303		•						◇	229
	KP1	+KP303		•					◇	256
	KP1L	+KP303		•					◇	256
	EKP1	+KP303				•			◇	312
	TEKP1	+KP303		•					◇	281
	KPM15	+KP303		•					◇	282
0,14-50	K50			•					▭	259
	EK50ML			•					▭	278
	EK1550					•			▭	308
	EK1550G					•			▭	310
0,25-6	K38ERGO		•						◇	228
0,5-2,5	K4		•						⌓	222
0,5-6	K36		•						▭	225
	K382		•						◇	227
0,5-16	K3		•						⌓	223
1,5-6	K46		•						⌓	222
	KP1	+KP351		•					○	256
	KP1L	+KP351		•					○	256
	EKP1	+KP351				•			○	312
	TEKP1	+KP351		•					○	281
	KPM15	+KP351		•					○	282
6-16	K34		•						▭	226
10-16	KP1	+KP304		•					◇	256
	KP1L	+KP304		•					◇	256
	EKP1	+KP304				•			◇	312
	TEKP1	+KP304		•					◇	281
	KPM15	+KP304		•					◇	282

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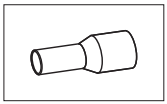

Tool application chart

**Cable end-sleeves
acc. to DIN 46228, part 1**

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile		Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads			
10-16	KP1	+KP352		•					○		256
	KP1L	+KP352		•					○		256
	EKP1	+KP352				•			○		312
	TEKP1	+KP352		•					○		281
	KPM15	+KP352		•					○		282
10-25	K39		•						▭		227
10-35	K35		•						◡		223
10-50	K271		•						▭		230
	K28		•						▭		231
	EK354					•			▭		314
	K354			•					▭		260
	EK354L					•			▭		316
	EK505L					•			▭		318
10-95	K18			•					▭	▭	262
	HK6018				•				▭	▭	286
	EK5018L					•			▭	▭	320
	PK18							•	▭	▭	362
	THK18						•		▭	▭	362
	HK60UNV	+ UA18			•				▭	▭	354
	EK60UNVL	+ UA18				•			▭	▭	357
	EKM60UNVL	+ UA18				•			▭	▭	356
	PK60UNV	+ UA18						•	▭	▭	355
10-150	THK22						•		▭	▭	364
10-240	K22			•					▭	▭	264
	HK6022				•				▭	▭	288
	EK6022L					•			▭	▭	324
	EKM6022L					•			▭	▭	322
	PK22							•	▭	▭	364
	HK60UNV	+ UA22			•				▭	▭	354
	EK60UNVL	+ UA22				•			▭	▭	357
	EKM60UNVL	+ UA22				•			▭	▭	356
	PK60UNV	+ UA22						•	▭	▭	355

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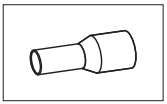
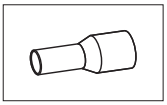


Tool application chart

Cable end-sleeves
acc. to DIN 46228, part 1

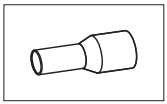
Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile		Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads			
25-240	HK12030				•						292
	HK12042				•						294
	PK12042							•			368
	PK120U							•			370
	HK252						•				388
	PK252							•			372
	HK120U				•						296
	EK12030L					•					330
	EK12042L					•					332
	EK120UL					•					334
	EK120UNVL					•					358
50-95	K272		•								230
	K29		•								231



Tool application chart

Cable end-sleeves
acc. to DIN 46228, part 2

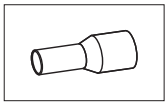
Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
0.5x2.5	KP1	+KP66		•						256
	KP1L	+KP66		•						256
	EKP1	+KP66				•				312
	TEKP1	+KP66		•						281
	KPM15	+KP66		•						282



Tool application chart

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

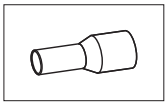
Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
0.14-2.5	K1		•						⬠	224
	K48		•						⬠	224
0.14-6	K32		•						⬠	225
	K37		•						⬠	226
	KP1	+KP312		•					⬠	256
	KP1L	+KP312		•					⬠	256
	EKP1	+KP312				•			⬠	312
	TEKP1	+KP312		•					⬠	281
	KPM15	+KP312		•					⬠	282
0.14-10	K303		•						◇	229
	KP1	+KP303		•					◇	256
	KP1L	+KP303		•					◇	256
	EKP1	+KP303				•			◇	312
	TEKP1	+KP303		•					◇	281
	KPM15	+KP303		•					◇	282
0.14-50	K50			•					⬡	259
	EK50ML			•					⬡	278
	EK1550					•			⬡	308
	EK1550G					•			⬡	310
0.25-6	K38ERGO		•						◇	228
0,5-2,5	K4		•						⬭	222
0,5-6	K36		•						⬠	225
	K382		•						◇	227
0,5-16	K3		•						⬭	223
1.5-6	K46		•						⬭	222
	KP1	+KP351		•					○	256
	KP1L	+KP351		•					○	256
	EKP1	+KP351				•			○	312
	TEKP1	+KP351		•					○	281
	KPM15	+KP351		•					○	282
6-16	K34		•						⬠	226
10-16	KP1	+KP304		•					◇	256
	KP1L	+KP304		•					◇	256
	EKP1	+KP304				•			◇	312
	TEKP1	+KP304		•					◇	281
	KPM15	+KP304		•					◇	282
	KP1	+KP352		•					○	256
	KP1L	+KP352		•					○	256
	EKP1	+KP352				•			○	312



Tool application chart

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

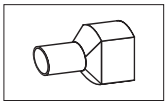
Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile		Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads			
10-16	TEKP1	+KP352		•					○		281
	KPM15	+KP352		•					○		282
10-25	K39		•						⌴		227
10-35	K35		•						⌒		223
10-50	K271		•						⌓		230
	K28		•						⌴		231
	K354			•					⌴		260
	EK354					•			⌴		314
	EK354L					•			⌴		316
10-95	K18			•					⌴	⌓	262
	HK6018				•				⌴	⌓	286
	EK5018L					•			⌴	⌓	320
	PK18							•	⌴	⌓	362
	THK18						•		⌴	⌓	362
	HK60UNV	+ UA18			•				⌴	⌓	354
	EK60UNVL	+ UA18				•			⌴	⌓	357
	EKM60UNVL	+ UA18				•			⌴	⌓	356
	PK60UNV	+ UA18						•	⌴	⌓	355
10-150	K22			•					⌴	⌓	264
	HK6022				•				⌴	⌓	288
	EK6022L					•			⌴	⌓	324
	EKM6022L					•			⌴	⌓	322
	PK22							•	⌴	⌓	364
	THK22						•		⌴	⌓	364
	HK60UNV	+ UA22			•				⌴	⌓	354
	EK60UNVL	+ UA22				•			⌴	⌓	357
	EKM60UNVL	+ UA22				•			⌴	⌓	356
	PK60UNV	+ UA22						•	⌴	⌓	355
25-150	HK12030				•				⌴	⌓	292
	HK12042				•				⌴	⌓	294
	HK120U				•				⌴	⌓	296
	EK12030L					•			⌴	⌓	330
	EK12042L					•			⌴	⌓	332
	EK120UL					•			⌴	⌓	334
	HK122EL380						•		⌴	⌓	390
	PK12042							•	⌴	⌓	368
	PK120U							•	⌴	⌓	370



Tool application chart

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

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile		Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads			
25-150	HK252						•				388
	HK252EL380						•				391
	PK252							•			372
50-95	K272		•								230
	K29		•								231

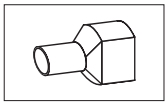


Tool application chart

Insulated twin cable end-sleeves

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
2x0,5-2x2,5	K32		•							225
	K382		•							227
	K38ERGO		•						◇	228
	KP1	+KP312		•						256
	KP1L	+KP312		•						256
	EKP1	+KP312				•				312
	TEKP1	+KP312		•						281
	KPM15	+KP312		•						282
2x0,5-2x4	K303		•						◇	229
	K36		•							225
	KP1	+KP303		•					◇	256
	KP1L	+KP303		•					◇	256
	EKP1	+KP303				•			◇	312
	TEKP1	+KP303		•					◇	281
	KPM15	+KP303		•					◇	282
2x4-2x6	K34		•							226
	KP1								◇	256
	EKP1	+KP304				•			◇	312
	TEKP1	+KP304		•					◇	281

See next page

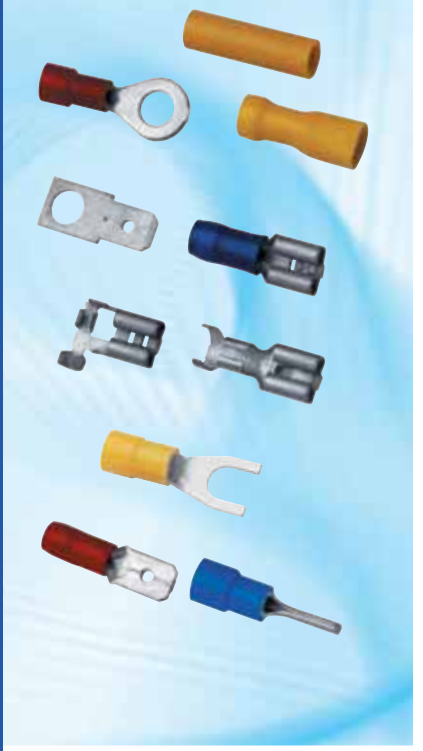


Tool application chart

Insulated
twin cable end-sleeves

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile		Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads			
2x4-2x16	K271		•								230
	K28		•								231
	K354			•							260
	EK354					•					314
	EK354L					•					316
	K18			•							262
	HK6018				•						286
	EK505L					•					318
	EK5018L					•					320
	PK18							•			362
	THK18						•				362
	HK60UNV	+ UA18			•						354
	EK60UNVL	+ UA18				•					357
	EKM60UNVL	+ UA18				•					356
	PK60UNV	+ UA18						•			355
	THK22						•				364
	K22			•							264
	HK6022				•						288
	EK6022L					•					324
	EKM6022L					•					322
	PK22							•			364
	HK60UNV	+ UA22			•						354
	EK60UNVL	+ UA22				•					357
	EKM60UNVL	+ UA22				•					356
	PK60UNV	+ UA22						•			355

Small parts, big impact.



Insulated and non-insulated cable connections.

To guarantee ultimate safety at all times, specific quality and installation requirements exist for insulated and non-insulated connections. We often hear about technical failures being caused by faulty connections. That's why quality is so important. Because when it comes to electrical connections, minor causes can have major, expensive consequences.

For optimum processing of Klauke connecting materials, we therefore recommend the use of Klauke tools. A harmonised system for professional users in trade and industry.

- **Insulated and non-insulated cable connections for professional users.**
- **Halogen-free insulation.**
- **Insulated connectors, heat resistant to 105 °C.**
- **Hard-soldered in the crimping area.**

The Klauke range carries various designs of both insulated and non-insulated cable connections for diverse applications.

Heat resistant insulation **to 105 °C.**

- Cable connections with nominal cross-sections from 0.1 mm^2 to 6 mm^2.
- Halogen-free and heat resistant to 105 °C.
- Simple processing thanks to easy-entry insulation.
- **Hard-soldered in the crimping area.**
- Grooved profile on the inside.

Benefits:

- The use of these optimised quality materials guarantees reliable electrical connections.
- Electrical conductivity is maintained, even at higher temperatures.
- Halogen-free, flame-retardant polyamide insulation releases no toxic vapours in case of fire.
- Easy-entry polyamide insulation for simple conductor insertion.
- High-tensile strength thanks to grooved profile in the crimping area permits higher mechanical continuous stress.

Receptacles **with strain relief.**

- Standardised connectors with 2.8; 4.8; 6.3 and 9.5 mm tab width.
- With grooved profile and additional copper ring in the insulation area.
- Receptacles, multiple type.
- Fully-insulated receptacles.

Benefits:

- Standardised tabs enable use for a broad range of applications, including control installations and machine wiring.
- **The grooved profile increases the hold in the crimping area.**
- The connections relieved by copper rings in the crimping area better withstand stresses and vibrations.

More from Page 179.

With indent point *for defined pulling forces.*

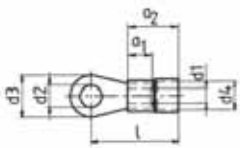
- Receptacle with indent point.
- For harmonised, flexible cables.
- Receptacles also available in bronze.

Benefits:

- The additional indent point increases the mechanical rating and **guarantees that the connections will withstand the defined pulling forces even after repeated pulling actions**.
- Thanks to the material's improved spring characteristics, connectors with bronze receptacles have a higher contact strength and are able to better withstand mechanical stresses, especially at high temperatures.

More from Page 179.

Insulated solderless terminals



- Acc. to DIN 46237 with flared insulation sleeve
- For fine and superfine stranded conductors
- High-quality brazing process in the crimp area

Characteristics

- Total cross-section: 0.1 - 6 mm²
- Insulated, halogen-free
- Heat resistant to 105° C
- Easy-Entry insulation for easy cable insertion
- Cross-section-dependent colour-coding

Material

- Cu-ETP
- Insulation sleeve: PA

Surface

- Tin-plated

Order info

- Now also available in handy plastic boxes for smaller requirements, part number appendix “SB”

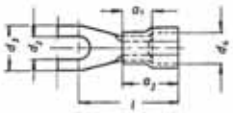
Nominal cross section mm²	Nominal size to DIN	Part No.	Colour	Dimension mm a1	a2	d1	d2	d3	d4	l	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.1-0.4	--	*6192		--	--	1.0	2.3	5.0	2.2	14.0	0.5	0.020	100
		*61925		--	--	1.0	2.6	5.0	2.2	14.0	0.5	0.020	100
		*6193		--	--	1.0	3.3	5.0	2.2	14.0	0.5	0.020	100
		*61935		--	--	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	5.1	17.5	0.8	0.065	100
	3.5-2.5	63035		5	11.5	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

- * = not standardized
- ** = Also available in small handy packs
- 0.1 - 0.4 mm² not CSA tested

Tools: see chart page 193

Insulated solderless terminals, fork type

- Acc. to DIN 46237 with flared insulation sleeve
- For fine and superfine stranded conductors
- High-quality brazing process in the crimp area
- Fork-type version for simple and direct screw mounting



Characteristics

- Total cross-section: 0.1 - 6 mm²
- Insulated, halogen-free
- Heat resistant to 105° C
- Easy-Entry insulation for easy cable insertion
- Cross-section-dependent colour-coding

Material

- Cu-ETP
- Insulation sleeve: PA

Surface

- Tin-plated

Nominal cross section mm²	Nominal size to DIN	Part No.	Colour	Dimension mm a1	a2	d1	d2	d3	d4	l	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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

- * = not standardized
- 0.1 - 0.4 mm² not CSA tested
- **Tools: see chart page 193**

Insulated pin terminals

- Acc. to DIN 46231 with flared insulation sleeve
- For fine and superfine stranded conductors
- High-quality brazing process in the crimp area

Characteristics

- Total cross-section: 0.1 - 6 mm²
- Insulated, halogen-free
- Cross-section-dependent colour-coding
- Heat resistant to 105° C
- Easy-Entry insulation for easy cable insertion

Material

- Cu-ETP
- Insulation sleeve: PA

Surface

- Tin-plated

Nominal cross section mm²	Nominal size to DIN	Part No.	Colour	Dimension mm a1	a2	d3	d4	l1	l2	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.1-0.4	--	***704**		--	--	1.4	--	18.0	9.0	0.5	0.020	100
0.5-1	1	**705**		5	10.5	1.9	4.5	22.0	10.0	0.8	0.065	100
		***705K**		5	10.5	1.9	4.5	18.0	6.0	0.8	0.060	100
1.5-2.5	2.5	**710**		5	11.5	1.9	5.1	23.0	10.0	0.8	0.065	100
		***710K**		5	11.5	1.9	5.1	19.5	6.5	0.8	0.060	100
		***710L**		5	11.5	1.9	5.1	27.5	16.0	0.8	0.100	100
4-6	6	**715**		6	12.5	2.7	6.5	26.0	11.0	1.0	0.160	100

- * = not standardized
- 0.1 - 0.4 mm² not CSA tested
- **Tools: see chart page 193**

Insulated pin receptacles

- For fine and superfine stranded conductors
- High quality bronze material provides optimum spring characteristic and improved contact strength

Characteristics

- Total cross-section: 0.5 - 6 mm²
- Cross-section-dependent colour-coding
- Heat resistant to 70° C

Material

- CuSnZn (bronze)
- Insulation sleeve: PVC

Surface

- Tin-plated

Nominal cross section mm²	Part No.	Colour	Tab dia	Dimension mm l1	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.5-1	**920**		4	22	0.35	0.060	100
1.5-2.5	**930**		5	22	0.38	0.120	100
4-6	**950**		5	22	0.38	0.125	100

- 1.5 - 2.5 mm² and 4 - 6 mm² not CSA tested
- **Tools: see chart page 193**

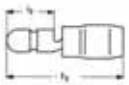
Insulated pin connectors

- For fine and superfine stranded conductors

Characteristics
- Total cross-section: 0.5 - 6 mm²
- Cross-section-dependent colour-coding
- Heat resistant to 70° C

Material
- CuZn (brass)
- Insulation sleeve: PVC

Surface
- Tin-plated to protect against corrosion



Nominal cross section mm²	Part No.	Colour	Dimension mm Tab dia.	l1	l2	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.5-1	**1020**		4	22	9	0.38	0.060	100
1.5-2.5	**1030**		5	22	9	0.38	0.075	100
4-6	**1050**		5	22	9	0.40	0.110	100

- 1.5 - 2.5 mm² and 4 - 6 mm² not CSA tested
- **Tools: see chart page 193**

Insulated pin receptacles, fully insulated

- For fine and superfine stranded conductors
- High quality bronze material provides optimum spring characteristic and improved contact strength

Characteristics
- Total cross-section: 0.5 - 6 mm²
- Insulated, halogen-free
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material
- CuSnZn (bronze)
- Insulation sleeve: PA

Surface
- Tin-plated

Nominal cross section mm²	Part No.	Colour	Dimension mm Tab dia.	l1	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.5-1	**920V**		4	24	0.38	0.065	100
4-6	**950V**		5	27	0.40	0.150	100

- 4 - 6 mm² not CSA tested
- **Tools: see chart page 193**

Insulated pin connectors, fully insulated

- For fine and superfine stranded conductors
- High quality bronze material provides optimum spring characteristic and improved contact strength

Characteristics

- Total cross-section: 0.5 - 6 mm²
- Insulated, halogen-free
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material

- CuSnZn (bronze)
- Insulation sleeve: PA

Surface

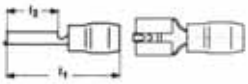
- Tin-plated

Nominal cross section mm²	Part No.	Colour	Tab dia.	Dimension mm l1	l2	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.5-1	**1020V**		4	25	11	0.38	0.065	100
1.5-2.5	**1030V**		5	25	11	0.38	0.080	100
4-6	**1050V**		5	27	13	0.40	0.120	100

- 1.5 - 2.5 mm² and 4 - 6 mm² not CSA tested
- **Tools: see chart page 193**

Insulated receptacles, brass - tin plated

For fine and superfine stranded conductors



Characteristics

- Total cross-section: 0.5 - 6 mm²
- Acc. to DIN 46245 part 1 - 3 and similar versions
- Insulated, halogen-free
- Cross-section-dependent colour-coding
- Heat resistant: PVC to 70° C, PA to 105° C

Material

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

Surface

- Tin-plated

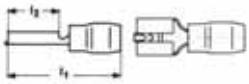
Order info

- Now also available in handy plastic boxes for smaller requirements, part number appendix "SB"

Nominal cross section mm²	Nominal size to DIN	Part No.	Colour	Tab thickn.	Tab width	Dimension mm l1	l2	s	Insulation material	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
0.5-1		**8201**		0.5	2.8	17.5	8.0	0.30	PVC	0.035	100
		8201A		0.8	2.8	17.5	8.0	0.30	PVC	0.045	100
		8202		0.5	4.8	18.0	6.0	0.35	PVC	0.065	100
	4.8 - 1	**8203**		0.8	4.8	18.0	6.0	0.35	PVC	0.065	100
	6.3 - 1	**720**		0.8	6.3	22.0	7.5	0.45	PVC	0.090	100*
		7208		0.8	7.7	25.0	9.5	0.40	PVC	0.110	100
1.5-2.5		**8301**		0.5	2.8	18.0	8.0	0.35	PA	0.050	100
		8301A		0.8	2.8	18.0	8.0	0.35	PA	0.060	100
		8302		0.5	4.8	18.0	6.0	0.35	PVC	0.070	100
	4.8 - 2.5	**8303**		0.8	4.8	18.0	6.0	0.35	PVC	0.070	100
	6.3 - 2.5	**730**		0.8	6.3	21.0	7.4	0.45	PVC	0.090	100*
		7308		0.8	7.7	25.0	9.5	0.45	PVC	0.115	100
4-6		**8503**		0.8	4.8	23.0	7.5	0.45	PA	0.138	100
	6.3 - 6	**750**		0.8	6.3	21.0	7.5	0.45	PVC	0.100	100*
		7509		1.2	9.5	26.5	12.0	0.45	PVC	0.150	100

Tools: see chart page 193

Insulated receptacles, bronze - tin plated



- For fine and superfine stranded conductors
- High quality bronze material provides optimum spring characteristic and improved contact strength

Characteristics
- Total cross-section: 0.5 - 6 mm²
- Acc. to DIN 46245, part 3
- Cross-section-dependent colour-coding
- Heat resistant to 70° C

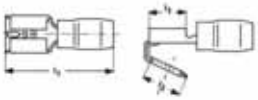
Material
- CuSnZn (bronze)
- Insulation sleeve: PVC

Surface
- Tin-plated

Nominal cross section mm²	Nominal size to DIN	Part No.	Colour	Tab thickn.	Tab width	Dimension mm l1	l2	s	Insulation material	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
0,5-1	6,3 - 1	**720BZ**		0,8	6,3	22	7,5	0,45	PVC	0,09	100
1,5-2,5	6,3 - 2,5	**730BZ**		0,8	6,3	21	7,4	0,45	PVC	0,09	100
4-6	6,3 - 6	**750BZ**		0,8	6,3	21	7,5	0,45	PVC	0,10	100

Tools: see chart page 193

Insulated receptacles, multiple type



- For fine and superfine stranded conductors

Characteristics
- Total cross-section: 0.5 - 6 mm²
- Cross-section-dependent colour-coding
- Heat resistant: PVC to 70° C

Material
- CuZn (brass)
- Insulation sleeve: PVC

Surface
- Tin-plated

Nominal cross section mm²	Part No.	Colour	Tab thickn.	Tab width	Dimension mm l1	l2	l3	s	Insulation material	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
0.5-1	**720AZ**		0.8	6.3	22	7.5	8	0.4	PVC	0.11	100
1.5-2.5	**730AZ**		0.8	6.3	22	7.5	8	0.4	PVC	0.11	100
4-6	**750AZ**		0.8	6.3	25	8.0	8	0.4	PVC	0.18	100

Tools: see chart page 193

Insulated receptacles, fully insulated

For fine and superfine stranded conductors

Characteristics

- Total cross-section: 0.5 - 6 mm²
- Insulated, halogen-free
- Cross-section-dependent colour-coding
- Heat resistant: PVC to 70° C, PA to 105° C

Material

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

Surface

- Tin-plated

Order info

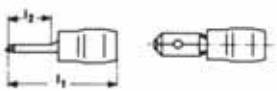
- Now also available in handy plastic boxes for smaller requirements, part number appendix “SB”

Nominal cross section mm²	Part No.	Colour	Tab thickn.	Tab width	Dimension mm l1	l2	s	Insulation material	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
0.5-1	**8201V**		0.5	2.8	19.0	5.5	0.25	PA	0.07	100
	8201AV		0.8	2.8	19.0	5.5	0.25	PA	0.07	100
	8202V		0.5	4.8	20.0	7.0	0.30	PVC	0.10	100
	8203V		0.8	4.8	20.0	7.0	0.30	PVC	0.10	100
	720V		0.8	6.3	21.0	7.5	0.45	PVC	0.08	100*
1.5-2.5	**8301V**		0.5	2.8	20.0	8.0	0.35	PVC	0.14	100
	8301AV		0.8	2.8	20.0	8.0	0.35	PVC	0.14	100
	8302V		0.5	4.8	20.5	7.0	0.30	PVC	0.11	100
	8303V		0.8	4.8	20.5	7.0	0.30	PVC	0.11	100
	730V		0.8	6.3	21.0	7.5	0.45	PVC	0.15	100*
4-6	**8502V**		0.5	4.8	20.5	9.5	0.40	PVC	0.15	100
	8503V		0.8	4.8	20.5	9.5	0.40	PVC	0.15	100
	750V		0.8	6.3	25.5	11.5	0.45	PVC	0.16	100

* = Also available in small handy packs

Tools: see chart page 193

Insulated tabs



For fine and superfine stranded conductors

Characteristics
- Total cross-section: 0.5 - 6 mm²
- Insulated, halogen-free
- Cross-section-dependent colour-coding
- Heat resistant: PVC to 70° C, PA to 105° C

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

Surface
- Tin-plated

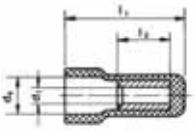
Order info
- Now also available in handy plastic boxes for smaller requirements, part number appendix “SB”

Nominal cross section mm²	Part No.	Colour	Tab thickn.	Tab width	Dimension mm l1	l2	s	Insulation material	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
0.5-1	**8201C**		0.5	2.8	22.0	11.5	0.4	PA	0.040	100
	8201B		0.8	2.8	14.6	5.5	0.4	PVC	0.060	100
	8202B		0.5	4.8	22.0	11.5	0.5	PA	0.070	100
	8203B		0.8	4.8	22.0	11.5	0.4	PA	0.070	100
	820		0.8	6.3	22.0	8.0	0.4	PVC	0.060	100*
1.5-2.5	**8302B**		0.5	4.8	22.0	11.5	0.5	PA	0.070	100
	8303B		0.8	4.8	22.0	11.5	0.4	PA	0.070	100
	830		0.8	6.3	22.0	8.0	0.4	PVC	0.065	100*
4-6	**8502B**		0.5	4.8	24.5	10.5	0.4	PA	0.120	100
	8503B		0.8	4.8	24.5	10.5	0.4	PA	0.120	100
	850		0.8	6.3	22.0	8.0	0.4	PVC	0.110	100*

* = Also available in small handy packs

Tools: see chart page 193

Insulated closed end-splices



For fine and superfine stranded conductors

Characteristics
- Total cross-section: 1.5 - 6 mm²
- Insulated, halogen-free
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material
- Cu-ETP
- Insulation sleeve: PA

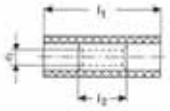
Surface
- Tin-plated

Nominal cross section mm²	Part No.	Colour	Dimension mm d1	d2	l1	l2	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
1.5-2.5	**1130**		2.3	5.2	16	7	0.8	0.05	100
4-6	**1150**		3.6	7.0	18	7	1.0	0.14	100

Tools: see chart page 193

Insulated butt connectors

- For fine and superfine stranded conductors
- With buttmarks for precise cable insertion



Characteristics
- Total cross-section: 0.1 - 6 mm²
- Insulated, halogen-free
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material
- Cu-ETP
- Insulation sleeve: PA

Surface
- Tin-plated

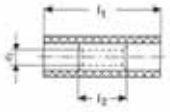
Order info
- Now also available in handy plastic boxes for smaller requirements, part number appendix “SB”

Nominal cross section mm²	Part No.	Colour	Dimension mm d1	Dimension mm l1	Dimension mm l2	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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*

- * = Also available in small handy packs
- 0.1 - 0.4 mm² not CSA tested
- **Tools: see chart page 193**

Insulated butt connectors, with heat shrink insulation

- For fine and superfine stranded conductors
- With buttmarks for precise cable insertion
- With waterproof heat shrink insulation



Characteristics
- Total cross-section: 0.5 - 6 mm²
- Insulated, halogen-free
- Cross-section-dependent colour-coding
- Special crimping tool required
- Heat resistant to 105° C

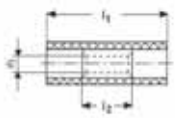
Material
- Cu-ETP
- Insulation sleeve: PE

Surface
- Tin-plated

Nominal cross section mm²	Part No.	Colour	Dimension mm d1	Dimension mm l1	Dimension mm l2	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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

- **Tools: see chart page 193**

Insulated parallel compression joints



For fine and superfine stranded conductors

Characteristics
- Total cross-section: 0.1 - 6 mm²
- Insulated, halogen-free
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

Material
- Cu-ETP
- Insulation sleeve: PA

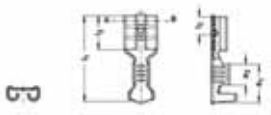
Surface
- Tin-plated

Nominal cross section mm²	Part No.	Colour	Dimension mm d1	l1	l2	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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

▸ 0.1 - 0.4 mm² not CSA tested

▸ **Tools: see chart page 193**

Non-insulated receptacles



For fine and superfine stranded conductors

Characteristics
- Total cross-section: 0.5 - 6 mm²
- Acc. to DIN 46247 part 1 - 3 and similar versions
- With grooved profile for improved contact characteristics

Material
- CuZn (brass)

Surface
- Tin-plated

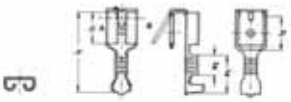
Order info
- * = This part is available in nickel-plated steel; part number appendix “ST”

Nominal cross section mm²	Nominal size to DIN	Part No.	Tab thickn.	Tab width	Dimension mm a1	a2	l1	l2	l3	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.5-1	--	**18251**	0.5	2.8	5.0	2.8	12.5	5.0	3.3	0.30	0.025	100
		18251A	0.8	2.8	5.5	2.5	12.5	5.0	3.3	0.30	0.025	100
	B 2.8 - 1	**18201A**	0.8	2.8	5.5	2.5	14.0	6.3	3.3	0.25	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

▸ **Tools: see chart page 194**

Non-insulated receptacles, multiple type

For fine and superfine stranded conductors



Characteristics
- Total cross-section: 0.5 - 6 mm²
- Acc. to DIN 46247 part 1 - 3 and similar versions
- With grooved profile for improved contact characteristics

Material
- CuZn (brass)

Surface
- Tin-plated

Order info
- * = Nickel-plated steel version also available, part number appendix “ST”

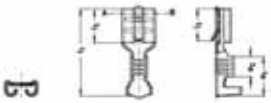
Nominal cross section mm²	Part No.	Tab thickn.	Tab width	Dimension mm a1	a2	l1	l2	l3	s	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
0.5-1	**18203AZ**	0.8	4.8	6.0	3.4	15.6	7	6.0	0.38	0.09	100
1.5-2.5	**18303AZ**	0.8	4.8	6.0	3.4	15.6	7	6.0	0.38	0.09	100
	1730AZ	0.8	*6.3	8.5	4.5	19.2	8	7.5	0.38	0.13	100

* = according to DIN 46345, also available in nickel-plated steel

Tools: see chart page 194

Non-insulated receptacles with latch

For fine and superfine stranded conductors



Characteristics
- Total cross-section: 0.5 - 6 mm²
- Acc. to DIN 46340, sheet 3
- With latch to engage in housings
- With grooved profile for improved contact characteristics

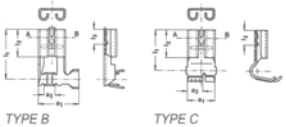
Material
- CuZn (brass)

Surface
- Tin-plated

Nominal cross section mm²	Part No.	Tab thickn.	Tab width	Dimension mm a1	a2	l1	l2	l3	s	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
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

Tools: see chart page 194

Non-insulated receptacles with lateral conductor connector



For fine and superfine stranded conductors

Characteristics
- Total cross-section: 0.5 - 2.5 mm²
- With grooved profile for improved contact characteristics

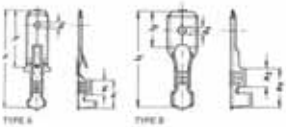
Material
- CuZn (brass)

Surface
- Tin-plated

Nominal cross section mm²	Part No.	Tab thickn.	Tab width	Typ	Dimension mm a1	a2	l1	l2	l3	l4	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.5-1	**3720**	0.8	6.3	B	11.0	3.0	12.5	7.4	4.0	7.2	0.38	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	0.45	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	0.38	0.085	100

Tools: see chart page 194

Non-insulated tabs



For fine and superfine stranded conductors

Characteristics
- Total cross-section: 0.5 - 6 mm²
- With grooved profile for improved contact characteristics

Material
- CuZn (Messing)

Surface
- Tin-plated

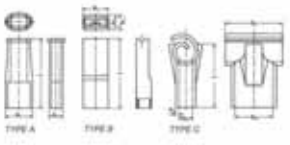
Nominal cross section mm²	Nominal size to DIN	Part No.	Tab thickn.	Tab width	Typ	Dimension mm a1	a2	d2	l1	l2	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.5-1		***2235**	0.8	2.8	A	6.0	3.2	1.30	22.5	12.7	0.045	100
	46343 B6.3 - 1	**2220**	0.8	6.3	A	8.2	4.0	1.65	28.0	16.0	0.085	100
1.5-2.5	46248 A6.3 - 2.5	**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

* = Dimensions in plug sector acc. to DIN 46244

Tools: see chart page 194

Insulation sleeves

For non-insulated tabs



Characteristics

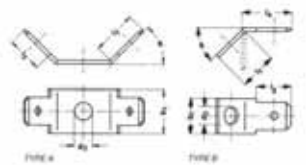
- For cross-sections from 0.5 - 6 mm²
- For post-insulation of crimped non-insulated receptacles

Material

- see table

Nominal cross section mm²	Nominal size to DIN	Part No.	Colour	Typ	Dimension mm b1	l	h1	Insu-lation material	for part no.	Weight/ 100 pcs. ~ kg	Packing unit/pcs
0.5-1	2.8	**2755**	☐	A	6.5	20.0	4.0	PE	1825,18251,18251A,18201,18201A	0.015	100
0.5-1.5	4.8	**2760**	☐	A	7.0	20.0	5.0	PE	18202,18203	0.015	100
1.5-2.5	4.8	**2765**	☐	A	9.5	20.0	5.5	PE	18302,18303	0.025	100
0.5-2.5	6.3	**2770**	☐	A	12.5	23.0	8.5	PE	1720,1730	0.035	100
0.5-2.5	6.3	**2775**	☐	A	9.5	25.0	5.0	PE	1820,1830	0.030	100
0.5-4	6.3	**2780**	☐	A	9.5	25.0	6.0	PE	1720,1730,1820,1830	0.030	100
0.5-6	6.3	**2785**	☐	B	9.2	24.5	5.6	PA	1720,1730,1750,2720,2730,2750	0.055	100
0.5-6	6.3	**2790**	☐	C	13.5	15.0	3.1	PVC	3720, 3725, 3735	0.060	100

Non-insulated tabs, angled type



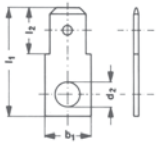
Characteristics
- Acc. to DIN 46342 part 1 and similar versions
- Dimensions in the plug sector to DIN 46244

Material
- CuZn (brass)

Surface
- Tin-plated

Nominal size to DIN	Part No.	Tab thickn.	Tab width	Typ	Dimension mm a1	a2	l1	l2	l3	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
	2040	0.8	2.8	A	5.0	3.2	5.5	6.5	--	60°	0.040	100
	2045	0.8	6.3	A	10.0	4.3	8.0	10.0	--	45°	0.160	100
--	**2060**	0.8	6.3	B	8.0	4.3	8.0	8.0	10.7	30°	0.085	100
	2070	0.8	6.3	B	8.0	3.2	8.0	8.0	10.7	45°	0.085	100
	2075	0.8	6.3	B	8.0	4.1	8.0	8.0	10.7	45°	0.085	100
B 6.3 - 0.8	**2080**	0.8	6.3	B	8.0	4.3	8.0	8.5	10.7	45°	0.085	100
	2083	0.8	6.3	B	8.0	5.3	8.0	8.5	10.7	45°	0.080	100
--	**2090**	0.8	6.3	B	8.0	5.3	8.0	8.0	10.7	45°	0.080	100
	2100	0.8	6.3	B	7.5	2.5	8.0	5.7	11.5	90°	0.075	100
	2105	0.8	6.3	B	8.0	3.2	8.0	8.0	11.5	90°	0.085	100
C 6.3 - 0.8	**2115**	0.8	6.3	B	8.0	4.3	8.0	8.5	11.5	90°	0.090	100

Non-insulated tabs, straight type



TYPE A

Characteristics
- Acc. to DIN 46342 part 1 and similar versions
- Dimensions in the plug sector to DIN 46244

Material
- CuZn (brass)

Surface
- Tin-plated

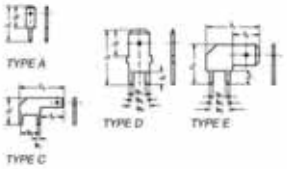
Nominal size to DIN	Part No.	Tab thickn.	Tab width	Typ	Dimension mm b1	d2	l1	l2	s	Weight/ 100 pcs. ~ kg	Packing unit/ pcs
--	**2123**	0.8	2.8	A	4.5	3.1	13.0	5.5	0.8	0.028	100
A 6.3 - 0.8	**2140**	0.8	6.3	A	8.0	4.3	19.0	8.0	0.8	0.086	100
--	**2145**	0.8	6.3	A	8.0	5.3	19.0	8.0	0.8	0.080	100

Non-insulated tabs, for soldering applications

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

Material
- CuZn (brass)

Surface
- Tin-plated



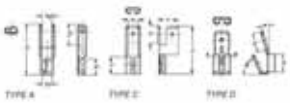
Part No.	Tab thickn.	Tab width	Typ	Dimension mm b1	b2	b3	l1	l2	l3	l4	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
2010	0.8	2.8	A	--	--	--	10.5	6.5	--	--	0.8	0.015	100
2020	0.5	2.8	C	1.0	5	--	--	7.1	8	13.4	0.5	0.025	100
2025	0.8	2.8	C	1.0	5	--	--	7.1	8	13.4	0.8	0.040	100
2030	0.8	6.3	D	3.5	5	6.4	16.0	8.0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

Non-insulated multiple tabs

Characteristics
- Dimensions in the plug sector to DIN 46244

Material
- CuZn (brass)

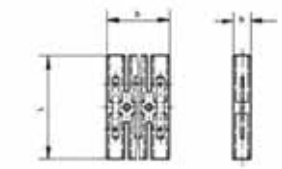
Surface
- Tin-plated



Part No.	Tab thickn.	Tab width	Typ	Dimension mm a1	b2	b3	l1	l2	l3	h	w	s	Weight/ 100 pcs. ~ kg	Packing unit/pcs
735	0.8	2.8	A	5	3.2	3.1	16.0	6.7	--	--	--	0.38	0.060	100
755	0.8	4.8	C	--	4.4	--	20.0	7.0	7.0	8.0	--	0.38	0.155	100
725	0.8	6.3	D	--	--	--	--	8	7.5	--	15°	0.38	0.115	100
775	0.8	6.3	C	--	--	--	20.5	12	7.5	9.6	--	0.38	0.200	100

Flexible connectors, tab width 2.8 mm

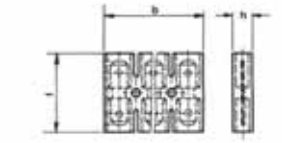
Characteristics
- With tabs 2.8 x 0.8 mm
- 1, 2 and 12-poles
- Further poles on request



Part No.	Tab thickn.	Tab width	Poles	Dimension mm b	l	h	s	Insulation material	Bolt size in mm distance	dia.	Weight/ 100 pcs. ~ kg	Packing unit/pcs
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

Flexible connectors, tab width 4.8 mm

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

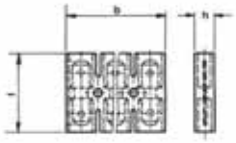


Part No.	Tab thickn.	Tab width	Poles	Dimension mm b	l	h	s	Insulation material	Bolt size in mm distance	dia.	Weight/ 100 pcs. ~ kg	Packing unit/pcs
8051	0.8	4.8	1	12.5	28	6.6	0.8	PVC	--	--	0.25	100
8052	0.8	4.8	2	25.0	28	6.6	0.8	PVC	--	3.2	0.50	50
80512	0.8	4.8	12	142.0	28	6.6	0.8	PVC	120	3.2	2.80	10

Flexible connectors, tab width 6.3 mm

Characteristics

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

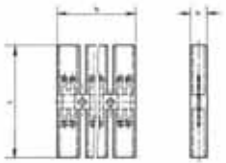


Part No.	Tab thickn.	Tab width	Poles	Dimension mm b	l	h	s	Insulation material	Bolt size in mm distance	dia.	Weight/ 100 pcs. ~ kg	Packing unit/pcs
8001	0.8	6.3	1	12.5	28	6.6	0.8	PVC	--	--	0.30	100
8002	0.8	6.3	2	25.0	28	6.6	0.8	PVC	--	3.7	0.55	50
80012	0.8	6.3	12	142.0	28	6.6	0.8	PVC	120	3.7	3.20	10

Polyamide connectors, tab width 2.8 and 6.3 mm

Characteristics

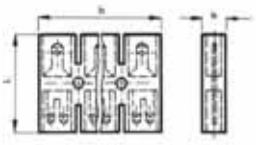
- With tabs 2.8 x 0.8 mm and 6.3 x 0.8 mm
- 1, 2 and 12-poles
- Further poles on request



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

Flexible circuit distributors, tab width 2.8 mm

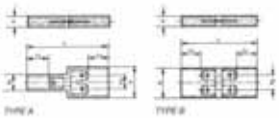
Characteristics
- With tabs 2.8 x 0.8 mm
- 1 and 12-poles
- Further poles on request



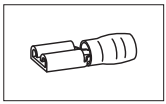
Part No.	Tab thickn.	Tab width	Poles	Dimension mm b	l	h	s	Insulation material	Bolt size in mm distance	dia.	Weight/ 100 pcs. ~ kg	Packing unit/pcs
8151	0,8	2,8	1	12,5	28	7	0,8	PVC	--	--	0,25	100
81512	0,8	2,8	12	147,0	28	7	0,8	PVC	123	3,2	2,80	10

Flexible circuit distributors, tab width 6.3 mm

Characteristics
- With tabs 6.3 x 0.8 mm



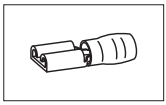
Part No.	Tab thickn.	Tab width	Typ	Dimension mm b	b1	b2	l	l1	h	s	Insulation material	Weight/ 100 pcs. ~ kg	Packing unit/pcs
816	0.8	6.3	A	21	11.3	9	53	15	7.5	0.8	PVC	0.60	10
817	0.8	6.3	B	20	11.3	9	51	13	7.0	0.8	PVC	0.65	10



Tool application chart

Insulated cable connections

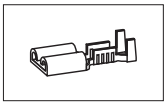
Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
0.1-1	K80		•						⬭	233
	KP1	+KP80		•					⬭	256
	KP1L	+KP80		•					⬭	256
	EKP1	+KP80				•			⬭	312
	TEKP1	+KP80		•					⬭	281
	KPM15	+KP80		•					⬭	282
0.5-2.5	K81		•						⬭	233
	KP1	+KP81		•					⬭	256
	KP1L	+KP81		•					⬭	256
	EKP1	+KP81				•			⬭	312
	TEKP1	+KP81		•					⬭	281
	KPM15	+KP81		•					⬭	282
0.5-6	K10		•						⬭	232
	K14		•						⬭	232
	K50			•					⬭	259
	EK50ML			•					⬭	278
	EK1550					•			⬭	308
	EK1550G					•			⬭	310
	K82		•						⬭	234
4-6	KP1	+KP83		•					⬭	256
	KP1L	+KP83		•					⬭	256
	EKP1	+KP83				•			⬭	312
	TEKP1	+KP83		•					⬭	281
	KPM15	+KP83		•					⬭	282



Tool application chart

Butt connectors with heat shrink insulation

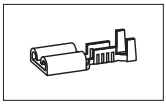
Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
0.5-6	K50			•					⬭	259
	EK50ML			•					⬭	278
	EK1550					•			⬭	308
	EK1550G					•			⬭	310



Tool application chart

Non-insulated receptacles, straight type

Crimping range corresponds to nominal cross-section mm²	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
0.1-1	K572		•							235
	K67		•							237
0.1-6	K50			•						259
	EK50ML			•						278
	EK1550					•				308
	EK1550G					•				310
0.5-2.5	K582		•							236
	K65		•							237
	K68		•							239
0.5-6	K592		•							236
	K60		•							235



Tool application chart

Non-insulatec receptacles, with lateral conductor connector

Part No.	Crimping tools		Tool type						Crimp profile	Page (Tool)
	Tools	Crimping head/ Adapter	Mechanical crimping tools	mechanical, electrical, pneumatic, crimping tools with interchangeable dies/heads	Hand hydraulic crimping tools	Battery powered crimping tools	Hydraulic crimping systems	Hydraulic crimping heads		
3720 3735	K50			•						259
	EK50ML			•						278
	EK1550					•				308
	EK1550G					•				310
	K63		•							238
	SKP6			•						258
3725	K50			•						259
	EK50ML			•						278
	EK1550					•				308
	EK1550G					•				310
	K64		•							238
	SKP6			•						258

Klauke®

Everything in its place.

Pocket boxes and assortment boxes.

Connecting materials and crimping tools immediately at hand, assorted and safely stored. Klauke assortment boxes offer you these benefits. The pocket boxes made from impact-resistant plastic are designed so that the connecting material remains in the pockets, even after an impact or strong vibrations. You save time, stay calm and don't lose any material.

Needless to say, the assortment boxes are also available empty. You can then use them for your own particular range of Klauke connecting materials.

- **Pocket boxes from impact-resistant plastic with cable end-sleeves.**
- **Assortment boxes with tubular and compression cable lugs, cable end-sleeves and insulated cable connections with appropriate stripping and crimping tool.**

The Klauke assortment boxes are available either full or empty for individual contents (special-purpose filling on request).

Cable end-sleeves **assorted in pocket boxes.**

- For cable end-sleeves with or without insulation.
- Rotating chute with zero positioning and indent.
- **From impact-resistant plastic.**
- Pocket boxes with raised edge.

Benefits:

- The cable end-sleeves are assorted for direct use. No need to search and quick progressing.
- Thanks to the practical opening, the required number is always taken.
- The pocket boxes are the ideal solution for rough site operation.
- The raised edge makes it easier to top up the pocket boxes. The boxes can also be stacked.

Practical assortments *of connecting materials and tools.*

- Matched to the most frequent applications.
- Sorting pockets close flush with the lid.
- **From impact-resistant, high-quality plastic.**
- Sturdy designs for use on construction sites.
- Now also for integration into TÜV-tested vehicle equipment systems from SORTIMO.

Benefits:

- You get a perfectly matched assortment of tools and connecting materials.
- Users always have the right materials at hand.
- The materials remain in the correct pocket during transportation, even in the event of a crash or strong vibrations.

All assortment boxes are also available empty for individual filling.

SK 65 B Metal assortment box with tubular cable lugs and crimping tool

Hammer-tone finished assortment box

Characteristics

- Sturdy steel carrying case with lock and handle
- Dimensions: 400x250x50 mm

Item		Part No.	
Assortment box with tubular cable lugs “standard type” and crimping tool K05		**SK65B**	
Scope of supply	Description	Quantity	Page
SK65L	Steel carrying case	1	215
K05	Crimping tool for tubular cable lugs and connectors, standard type 6 - 50 mm²	1	247
1R6	Tubular cable lug without inspection hole, 6 mm², M6, Cu tinned	25	34
1R8	Tubular cable lug without inspection hole, 6 mm², M8, Cu tinned	25	34
2R6	Tubular cable lug without inspection hole, 10 mm², M6, Cu tinned	25	34
2R8	Tubular cable lug without inspection hole, 10 mm², M8, Cu tinned	25	34
3R8	Tubular cable lug without inspection hole, 16 mm², M8, Cu tinned	25	34
3R10	Tubular cable lug without inspection hole, 16 mm², M10, Cu tinned	25	34
4R8	Tubular cable lug without inspection hole, 25 mm², M8, Cu tinned	25	34
4R10	Tubular cable lug without inspection hole, 25 mm², M10, Cu tinned	25	34
5R8	Tubular cable lug without inspection hole, 35 mm², M8, Cu tinned	20	34
5R10	Tubular cable lug without inspection hole, 35 mm², M10, Cu tinned	20	34
6R10	Tubular cable lug without inspection hole, 50 mm², M10, Cu tinned	20	34
6R12	Tubular cable lug without inspection hole, 50 mm², M12, Cu tinned	20	34

SK 50 B Metal assortment box with DIN compression cable lugs and crimping tool

Hammer-tone finished assortment box

Characteristics

- Sturdy steel carrying case with lock and handle
- Dimensions: 400x250x50 mm

Item		Part No.	
Assortment box from steel with DIN compression cable lugs and crimping tool		**SK50B**	
Scope of supply	Description	Quantity	Page
SK65L	Steel carrying case	1	215
K05D	Crimping tool for compression cable lugs and connectors (DIN 46235 / DIN 46267 part 1) 6 - 50 mm²	1	247
101R5	Compression cable lug, DIN 46235, 6 mm², M5, Cu tinned	50	72
101R6	Compression cable lug, DIN 46235, 6 mm², M6, Cu tinned	50	72
102R5	Compression cable lug, DIN 46235, 10 mm², M5, Cu tinned	50	72
102R6	Compression cable lug, DIN 46235, 10 mm², M6, Cu tinned	50	72
103R8	Compression cable lug, DIN 46235, 16 mm², M8, Cu tinned	25	72
103R10	Compression cable lug, DIN 46235, 16 mm², M10, Cu tinned	25	72
104R8	Compression cable lug, DIN 46235, 25 mm², M8, Cu tinned	25	72
104R10	Compression cable lug, DIN 46235, 25 mm², M10, Cu tinned	25	72
105R8	Compression cable lug, DIN 46235, 35 mm², M8, Cu tinned	20	72
105R10	Compression cable lug, DIN 46235, 35 mm², M10, Cu tinned	20	72
106R10	Compression cable lug, DIN 46235, 50 mm², M10, Cu tinned	15	72
106R12	Compression cable lug, DIN 46235, 50 mm², M12, Cu tinned	15	72

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

Extensive equipment based on the blue connection® product line, including crimping tool, cutting tool and electrician's knife

Characteristics

- Manufactured from shock and impact resistant ABS plastic, very robust, loadable to 100 kg
- Stackable using an Easy-Click system which allows an easy opening and closing
- Dimensions: 442x357x117 mm (W/D/H)

Item		Part No.	
L-BOXX from plastic with blue connection® equipment		**LBOXX65BCB**	
Scope of supply	Description	Quantity	Page
K05BC	Crimping tool for tubular cable lugs and connectors, blue connection® 6 - 50 mm²	1	246
K100	Hand-operated cutting tool for Cu and Al cables to 14 mm dia.	1	268
KL740416	Electrician's knife, without blade 4 - 16 mm dia.	1	520
6B6	Rohrkabelschuhe, blue connection®, 6 mm², M6, Cu	25	26
6B8	Tubular cable lugs, blue connection®, 6 mm², M8, Cu	25	26
10B6	Rohrkabelschuhe, blue connection®, 10 mm², M6, Cu	25	26
10B8	Rohrkabelschuhe, blue connection®, 10 mm², M8, Cu	25	26
16B10	Tubular cable lugs, blue connection®, 16 mm², M10, Cu	25	26
25B8	Tubular cable lugs, blue connection®, 25 mm², M8, Cu	20	26
25B10	Tubular cable lugs, blue connection®, 25 mm², M10, Cu	20	26
35B8	Tubular cable lugs, blue connection®, 35 mm², M8, Cu	20	26
35B10	Tubular cable lugs, blue connection®, 35 mm², M10, Cu	20	26
50B10	Tubular cable lugs, blue connection®, 50 mm², M10, Cu	20	26
LBOXX102LFG	L-BOXX with front handle (W/D/H: 442 x 357 x 117 mm)	1	

L-BOXX 65B - plastic - with standard equipment for electrical installation

Characteristics

- Manufactured from shock and impact resistant ABS plastic, very robust, loadable to 100 kg
- Stackable using an Easy-Click system which allows an easy opening and closing
- Dimensions: 442x357x117 mm (W/D/H)

Item		Part No.	
L-BOXX from plastic with standard equipment for electrical installation		**LBOXX65B**	
Scope of supply	Description	Quantity	Page
K05	Crimping tool for tubular cable lugs and connectors, standard type 6 - 50 mm²	1	247
K100	Hand-operated cutting tool for Cu and Al cables to 14 mm dia.	1	268
KL740416	Electrician's knife, without blade 4 - 16 mm dia.	1	520
1R6	Tubular cable lug without inspection hole, 6 mm², M6, Cu tinned	25	34
1R8	Tubular cable lug without inspection hole, 6 mm², M8, Cu tinned	25	34
2R6	Tubular cable lug without inspection hole, 10 mm², M6, Cu tinned	25	34
2R8	Tubular cable lug without inspection hole, 10 mm², M8, Cu tinned	25	34
3R10	Tubular cable lug without inspection hole, 16 mm², M10, Cu tinned	25	34
4R8	Tubular cable lug without inspection hole, 25 mm², M8, Cu tinned	20	34
4R10	Tubular cable lug without inspection hole, 25 mm², M10, Cu tinned	20	34
5R8	Tubular cable lug without inspection hole, 35 mm², M8, Cu tinned	20	34
5R10	Tubular cable lug without inspection hole, 35 mm², M10, Cu tinned	20	34
6R10	Tubular cable lug without inspection hole, 50 mm², M10, Cu tinned	15	34
LBOXX102LFG	L-BOXX with front handle (W/D/H: 442 x 357 x 117 mm)	1	

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

Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable
- * = not standardized

Item		Part No.	
Pocket box with cable end-sleeves 0.25 - 1 mm² to DIN 46228 part 1		**ST23B**	
Scope of supply	Description	Quantity	Page
ST23L	Pocket box	1	
*695V	Cable end-sleeve, 0.25 mm², 5mm long, Cu tinned	1000	154
*705V	Cable end-sleeve, 0.34 mm², 5mm long, Cu tinned	1000	154
716V	Cable end-sleeve DIN 46228 part 1, 0.75 mm², 6mm long, Cu tinned	1000	154
71S6V	Cable end-sleeve DIN 46228 part 1, 0.5 mm², 6mm long, Cu tinned	500	154
72S6V	Cable end-sleeve DIN 46228 part 1, 1.0 mm², 6mm long, Cu tinned	500	154

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

Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item		Part No.	
Pocket box with cable end-sleeves 0.5 - 2.5 mm² to DIN 46228 part 1		**ST21B**	
Scope of supply	Description	Quantity	Page
ST21L	Pocket box	1	
71S6V	Cable end-sleeve DIN 46228 part 1, 0.5 mm², 6mm long, Cu tinned	1000	154
716V	Cable end-sleeve DIN 46228 part 1, 0.75 mm², 6mm long, Cu tinned	500	154
72S6V	Cable end-sleeve DIN 46228 part 1, 1.0 mm², 6mm long, Cu tinned	500	154
727V	Cable end-sleeve DIN 46228 part 1, 1.5 mm², 7mm long, Cu tinned	500	154
737V	Cable end-sleeve DIN 46228 part 1, 2.5 mm², 7mm long, Cu tinned	500	154

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

Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item		Part No.	
Pocket box with cable end-sleeves 4 - 16 mm² to DIN 46228 part 1		**ST22B**	
Scope of supply	Description	Quantity	Page
ST22L	Pocket box	1	
749V	Cable end-sleeve DIN 46228 part 1, 4 mm², 9mm long, Cu tinned	200	155
7512V	Cable end-sleeve DIN 46228 part 1, 6 mm², 12mm long, Cu tinned	100	155
7612V	Cable end-sleeve DIN 46228 part 1, 10 mm², 12mm long, Cu tinned	70	155
7712V	Cable end-sleeve DIN 46228 part 1, 16 mm², 12mm long, Cu tinned	70	155

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

▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item			Part No.	
Pocket box with twin cable end-sleeves 2 x 0.75 - 2 x 2.5 mm²			ST15B	
Scope of supply	Colour	Description	Quantity	Page
ST15L		Pocket box	1	
8708		Ins. twin cable end-sleeve, 2 x 0.75 mm²	50	162
8718		Ins. twin cable end-sleeve, 2 x 1 mm²	50	162
8728		Ins. twin cable end-sleeve, 2 x 1.5 mm²	50	162
87310		Ins. twin cable end-sleeve, 2 x 2.5 mm²	50	162

ST 1 B Pocket box with ins. cable end-sleeves 0.5 - 2.5 mm², DIN 46228 p. 4, colour code 1

▸ Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item			Part No.	
Pocket box with insulated cable end-sleeves 0.5 - 2.5 mm²			ST1B	
Scope of supply	Colour	Description	Quantity	Page
ST1L		Pocket box	1	
1690		Ins. cable end-sleeve DIN 46228 part 4, 0.5 mm², 14mm long	50	158
170W		Ins. cable end-sleeve DIN 46228 part 4, 0.75 mm², 14.6mm long	100	159
171G		Ins. cable end-sleeve DIN 46228 part 4, 1 mm², 14.6mm long	100	159
172RO		Ins. cable end-sleeve DIN 46228 part 4, 1.5 mm², 14.6mm long	100	159
173B		Ins. cable end-sleeve DIN 46228 part 4, 2.5 mm², 15.2mm long	50	159

ST 11 B Pocket box with insulated 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 insulated cable end-sleeves 0.5 - 2.5 mm²			ST11B	
Scope of supply	Colour	Description	Quantity	Page
ST11L		Pocket box	1	
4698		Ins. cable end-sleeve DIN 46228 part 4, 0.5 mm², 14mm long	50	157
4708		Ins. cable end-sleeve DIN 46228 part 4, 0.75 mm², 14mm long	100	157
4718		Ins. cable end-sleeve DIN 46228 part 4, 1 mm², 14mm long	100	157
4728		Ins. cable end-sleeve DIN 46228 part 4, 1.5 mm², 14mm long	100	157
4738		Ins. cable end-sleeve DIN 46228 part 4, 2.5 mm², 14mm long	50	157

ST 31 B Pocket box with ins. cable end-sleeves 0.5 - 2.5 mm², DIN 46228 p. 4, colour code 2

Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item			Part No.	
Pocket box with insulated cable end-sleeves 0.5 - 2.5 mm²			ST31B	
Scope of supply	Colour	Description	Quantity	Page
ST31L		Pocket box	1	
1698		Ins. cable end-sleeve DIN 46228 part 4, 0.5 mm², 13mm long	50	160
1708		Ins. cable end-sleeve DIN 46228 part 4, 0.75 mm², 13.5mm long	100	160
1718		Ins. cable end-sleeve DIN 46228 part 4, 1 mm², 13.5mm long	100	160
1728		Ins. cable end-sleeve DIN 46228 part 4, 1.5 mm², 13.5mm long	100	160
1738		Ins. cable end-sleeve DIN 46228 part 4, 2.5 mm², 14.5mm long	50	160

ST 12 B Pocket box with insulated 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 insulated cable end-sleeves 4 - 16 mm² to DIN 46228 part 4			ST12B	
Scope of supply	Colour	Description	Quantity	Page
ST12L		Pocket box	1	
47410		Ins. cable end-sleeve DIN 46228 part 4, 4 mm², 17mm long	50	157
47512		Ins. cable end-sleeve DIN 46228 part 4, 6 mm², 20mm long	20	157
47612		Ins. cable end-sleeve DIN 46228 part 4, 10 mm², 22mm long	20	157
47712		Ins. cable end-sleeve DIN 46228 part 4, 16 mm², 24mm long	10	157

ST 2 B Pocket box with 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 insulated cable end-sleeves 4 - 16 mm²			ST2B	
Scope of supply	Colour	Description	Quantity	Page
ST2L		Pocket box	1	
174GR		Ins. cable end-sleeve DIN 46228 part 4, 4 mm², 16.5mm long	50	159
175S		Ins. cable end-sleeve DIN 46228 part 4, 6 mm², 20mm long	20	159
176E		Ins. cable end-sleeve DIN 46228 part 4, 10 mm², 21.5mm long	20	159
177GR		Ins. cable end-sleeve DIN 46228 part 4, 16 mm², 22.2mm long	10	159

ST 32 B Pocket box with ins. cable end-sleeves 4 - 16 mm², DIN 46228 p. 4, colour code 2

Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item				Part No.
Pocket box with insulated cable end-sleeves 4 - 16 mm²				**ST32B**
Scope of supply	Colour	Description	Quantity	Page
ST32L		Pocket box	1	
17410		Ins. cable end-sleeve DIN 46228 part 4, 4 mm², 16.5mm long	50	160
17512		Ins. cable end-sleeve DIN 46228 part 4, 6 mm², 20mm long	20	160
17612		Ins. cable end-sleeve DIN 46228 part 4, 10 mm², 21.5mm long	20	160
17712		Ins. cable end-sleeve DIN 46228 part 4, 16 mm², 23.5mm long	10	160

ST 3 B Pocket box with ins. cable end-sleeves 0.25 - 1 mm², DIN 46228 p. 4, colour code 1

Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable
- * = Part No. 167H and 168T are not standardized

Item				Part No.
Pocket box with insulated twin cable end-sleeves 0.25-1 mm²				**ST3B**
Scope of supply	Colour	Description	Quantity	Page
ST3L		Pocket box	1	
*167H		Ins. cable end-sleeve, 0.25 mm², 10.4mm long	30	158
*168T		Ins. cable end-sleeve, 0.34 mm², 10.4mm long	30	158
1690		Ins. cable end-sleeve DIN 46228 part 4, 0.5 mm², 14mm long	30	158
170W		Ins. cable end-sleeve DIN 46228 part 4, 0.75 mm², 14.6mm long	30	159
171G		Ins. cable end-sleeve DIN 46228 part 4, 1 mm², 14.6mm long	30	159

ST 13 B Pocket box with ins. cable end-sleeves 0.25 - 1 mm², DIN 46228 p. 4 and similar, colour code 1

Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable
- * = Part No. 167H and 168T are not standardized

Item				Part No.
Pocket box with insulated cable end-sleeves 0.25 - 1 mm² to DIN 46228 part 4				**ST13B**
Scope of supply	Colour	Description	Quantity	Page
ST13L		Pocket box	1	
*167H		Ins. cable end-sleeve, 0.25 mm², 10.4mm long	30	158
*168T		Ins. cable end-sleeve, 0.34 mm², 10.4mm long	30	158
4698		Ins. cable end-sleeve DIN 46228 part 4, 0.5 mm², 14mm long	30	157
4708		Ins. cable end-sleeve DIN 46228 part 4, 0.75 mm², 14mm long	30	157
4718		Ins. cable end-sleeve DIN 46228 part 4, 1 mm², 14mm long	30	157

ST 33 B Pocket box with ins. cable end-sleeves 0.25 - 1 mm², DIN46228 p.4 and similar, colour code 2

Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable
- * = not standardized

Item			Part No.	
Pocket box with insulated cable end-sleeves 0.25 - 1 mm²			ST33B	
Scope of supply	Colour	Description	Quantity	Page
ST33L		Pocket box	1	
*1676		Ins. cable end-sleeve, 0.25 mm², 11mm long	30	160
*1686		Ins. cable end-sleeve, 0.34 mm², 11mm long	30	160
1698		Ins. cable end-sleeve DIN 46228 part 4, 0.5 mm², 13mm long	30	160
1708		Ins. cable end-sleeve DIN 46228 part 4, 0.75 mm², 13.5mm long	30	160
1718		Ins. cable end-sleeve DIN 46228 part 4, 1 mm², 13.5mm long	30	160

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

Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item			Part No.	
Pocket box with insulated cable end-sleeves 0.5 mm² to DIN 46228 part 4			GR4698DO	
Scope of supply	Colour	Description	Quantity	Page
4698		Ins. cable end-sleeve DIN 46228 part 4, 0.5 mm², 14mm long	1000	157

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

Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item			Part No.	
Pocket box with insulated cable end-sleeves 0.75 mm² DIN 46228 part 4			GR4708DO	
Scope of supply	Colour	Description	Quantity	Page
4708		Ins. cable end-sleeve DIN 46228 part 4, 0.75 mm², 14mm long	1000	157

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

Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item				Part No.
Pocket box with insulated cable end-sleeves 1 mm² DIN 46228 part 4				**GR4718DO**
Scope of supply	Colour	Description	Quantity	Page
4718		Ins. cable end-sleeve DIN 46228 part 4, 1 mm², 14mm long	1000	157

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

Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item				Part No.
Pocket box with insulated cable end-sleeves 1.5 mm² DIN 46228 part 4				**GR4728DO**
Scope of supply	Colour	Description	Quantity	Page
4728		Ins. cable end-sleeve DIN 46228 part 4, 1.5 mm², 14mm long	1000	157

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

Pocket box made from impact-resistant plastic

Characteristics

- Stackable and resealable

Item				Part No.
Pocket box with insulated cable end-sleeves 2.5 mm² DIN 46228 part 4				**GR4738DO**
Scope of supply	Colour	Description	Quantity	Page
4738		Ins. cable end-sleeve DIN 46228 part 4, 2.5 mm², 14mm long	1000	157

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 Metal assortment box with cable end-sleeves and crimping tool

- Hammer-tone finished assortment box

Characteristics

- Dimensions: 200x140x40 mm

Item		Part No.	
Assortment box from steel with cable end-sleeves and crimping tool		**SK30B**	
Scope of supply	Description	Quantity	Page
SK30L	Steel carrying case	1	213
K48	Crimping tool for cable end-sleeves 0.14 - 2.5 mm²	1	224
716V	Cable end-sleeve DIN 46228 part 1, 0.75 mm², 6mm long, Cu tinned	1000	154
72S6V	Cable end-sleeve DIN 46228 part 1, 1.0 mm², 6mm long, Cu tinned	1000	154
727V	Cable end-sleeve DIN 46228 part 1, 1.5 mm², 7mm long, Cu tinned	1000	154
737V	Cable end-sleeve DIN 46228 part 1, 2.5 mm², 7mm long, Cu tinned	1000	154

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

- Broad cable end-sleeve range with single-acting crimping tool
- Hammer-tone finished assortment box

Characteristics

- Dimensions: 285x155x45 mm

Item		Part No.	
Assortment box from steel with cable end-sleeves and crimping tool		**SK32B**	
Scope of supply	Description	Quantity	Page
SK32L	Steel carrying case	1	213
K3	Crimping tool for cable end-sleeves 0.5 - 16 mm²	1	223
716V	Cable end-sleeve DIN 46228 part 1, 0.75 mm², 6mm long, Cu tinned	1000	154
72S6V	Cable end-sleeve DIN 46228 part 1, 1.0 mm², 6mm long, Cu tinned	1000	154
727V	Cable end-sleeve DIN 46228 part 1, 1.5 mm², 7mm long, Cu tinned	1000	154
737V	Cable end-sleeve DIN 46228 part 1, 2.5 mm², 7mm long, Cu tinned	500	154
749V	Cable end-sleeve DIN 46228 part 1, 4 mm², 9mm long, Cu tinned	500	155
7510V	Cable end-sleeve DIN 46228 part 1, 6 mm², 10mm long, Cu tinned	500	155
7618V	Cable end-sleeve DIN 46228 part 1, 10 mm², 18mm long, Cu tinned	250	155
7718V	Cable end-sleeve DIN 46228 part 1, 16 mm², 18mm long, Cu tinned	150	155

SK 45 B Metal assortment box with insulated cable end-sleeves and crimping tool

- Four of the most important insulated cable end-sleeves in a steel carrying case including single-acting crimping tool
- Hammer-tone finished assortment box

Characteristics

- Dimensions: 200x140x40 mm

Item			Part No.	
Assortment box from steel with Ins. cable end-sleeves and crimping tool			SK45B	
Scope of supply	Colour	Description	Quantity	Page
SK30L		Steel carrying case	1	213
K48		Crimping tool for cable end-sleeves 0.14 - 2.5 mm²	1	224
4708		Ins. cable end-sleeve DIN 46228 part 4, 0.75 mm², 14mm long	300	157
4718		Ins. cable end-sleeve DIN 46228 part 4, 1 mm², 14mm long	300	157
4728		Ins. cable end-sleeve DIN 46228 part 4, 1.5 mm², 14mm long	300	157
4738		Ins. cable end-sleeve DIN 46228 part 4, 2.5 mm², 14mm long	200	157

SK 47 B Metal assortment box with insulated cable end-sleeves and crimping tool

- Hammer-tone finished assortment box

Characteristics

- Dimensions: 285x155x45 mm

Item			Part No.	
Assortment box from steel with Ins. cable end-sleeves and crimping tool			SK47B	
Scope of supply	Colour	Description	Quantity	Page
SK32L		Steel carrying case	1	213
K3		Crimping tool for cable end-sleeves 0.5 - 16 mm²	1	223
4708		Ins. cable end-sleeve DIN 46228 part 4, 0.75 mm², 14mm long	200	157
4718		Ins. cable end-sleeve DIN 46228 part 4, 1 mm², 14mm long	200	157
4728		Ins. cable end-sleeve DIN 46228 part 4, 1.5 mm², 14mm long	200	157
4738		Ins. cable end-sleeve DIN 46228 part 4, 2.5 mm², 14mm long	200	157
47410		Ins. cable end-sleeve DIN 46228 part 4, 4 mm², 17mm long	100	157
47512		Ins. cable end-sleeve DIN 46228 part 4, 6 mm², 20mm long	100	157
47618		Ins. cable end-sleeve DIN 46228 part 4, 10 mm², 28mm long	100	157
47718		Ins. cable end-sleeve DIN 46228 part 4, 16 mm², 28mm long	50	157

SK 30/3 P Plastic assortment box with insulated cable end-sleeves and tools

Characteristics

- Dimensions: 395x295x106 mm

Item			Part No.	
Assortment box from plastic with Ins. cable end-sleeves and tools			**SK303P**	
Scope of supply	Colour	Description	Quantity	Page
K432		Automatic wire stripping tool K43/2 0.02 - 10 mm²	1	516
K303		Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 10 mm²	1	229
4698		Ins. cable end-sleeve DIN 46228 part 4, 0.5 mm², 14mm long	400	157
4708		Ins. cable end-sleeve DIN 46228 part 4, 0.75 mm², 14mm long	400	157
4718		Ins. cable end-sleeve DIN 46228 part 4, 1 mm², 14mm long	400	157
4728		Ins. cable end-sleeve DIN 46228 part 4, 1.5 mm², 14mm long	400	157
4738		Ins. cable end-sleeve DIN 46228 part 4, 2.5 mm², 14mm long	200	157
47410		Ins. cable end-sleeve DIN 46228 part 4, 4 mm², 17mm long	200	157
47512		Ins. cable end-sleeve DIN 46228 part 4, 6 mm², 20mm long	100	157
47612		Ins. cable end-sleeve DIN 46228 part 4, 10 mm², 22mm long	100	157

SK 30/3 S Plastic assortment box with insulated cable end-sleeves and crimping tool

Characteristics

- Dimensions: 275x230x83 mm

Item			Part No.	
Assortment box from plastic with Ins. cable end-sleeves and crimping tool			**SK303S**	
Scope of supply	Colour	Description	Quantity	Page
K303		Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 10 mm²	1	229
4698		Ins. cable end-sleeve DIN 46228 part 4, 0.5 mm², 14mm long	100	157
4708		Ins. cable end-sleeve DIN 46228 part 4, 0.75 mm², 14mm long	100	157
4718		Ins. cable end-sleeve DIN 46228 part 4, 1 mm², 14mm long	100	157
4728		Ins. cable end-sleeve DIN 46228 part 4, 1.5 mm², 14mm long	100	157
4738		Ins. cable end-sleeve DIN 46228 part 4, 2.5 mm², 14mm long	50	157
47410		Ins. cable end-sleeve DIN 46228 part 4, 4 mm², 17mm long	50	157
47512		Ins. cable end-sleeve DIN 46228 part 4, 6 mm², 20mm long	30	157
47612		Ins. cable end-sleeve DIN 46228 part 4, 10 mm², 22mm long	30	157

SK 43 NB Metal assortment box with insulated cable end-sleeves and tools

High-performance 4-edge crimping tool including wire stripping tool

Characteristics

- Dimensions: 370x210x40 mm

Item			Part No.	
Assortment box from steel with Ins. cable end-sleeves and tools			**SK43NB**	
Scope of supply	Colour	Description	Quantity	Page
SK43L		Steel carrying case	1	213
K432		Automatic wire stripping tool K43/2 0.02 - 10 mm²	1	516
K303		Crimping tool for cable end-sleeves and twin cable end-sleeves 0.08 - 10 mm²	1	229
4698		Ins. cable end-sleeve DIN 46228 part 4, 0.5 mm², 14mm long	500	157
4708		Ins. cable end-sleeve DIN 46228 part 4, 0.75 mm², 14mm long	500	157
4718		Ins. cable end-sleeve DIN 46228 part 4, 1 mm², 14mm long	400	157
4728		Ins. cable end-sleeve DIN 46228 part 4, 1.5 mm², 14mm long	400	157
4738		Ins. cable end-sleeve DIN 46228 part 4, 2.5 mm², 14mm long	300	157
47410		Ins. cable end-sleeve DIN 46228 part 4, 4 mm², 17mm long	100	157
47512		Ins. cable end-sleeve DIN 46228 part 4, 6 mm², 20mm long	100	157
47612		Ins. cable end-sleeve DIN 46228 part 4, 10 mm², 22mm long	100	157

MK 210 B Metal assortment box with insulated terminals and crimping tool

Hammer-tone finished assortment box

Characteristics

- Dimensions: 250x155x40 mm

Item			Part No.	
Assortment box from steel with Ins. cable connections and crimping tool			**MK210B**	
Scope of supply	Colour	Description	Quantity	Page
MK210L		Steel carrying case	1	214
K10		Crimping tool for insulated cable connections 0.5 - 6 mm²	1	232
620C4		Ins. solderless terminal M4 DIN 46237, 0.5-1 mm², fork-type	50	175
6305		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 1.5-2.5 mm²	50	174
710		Ins. pin terminal DIN 46231, 1.5-2.5 mm², 23mm long	50	176
6505		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 4-6 mm²	25	174

MK 220 B Metal assortment box with insulated terminals and crimping tool

Hammer-tone finished assortment box

Characteristics

- Dimensions: 370x160x40 mm

Item			Part No.	
Assortment box from steel with Ins. cable connections and crimping tool			**MK220B**	
Scope of supply	Colour	Description	Quantity	Page
MK220L		Steel carrying case	1	214
K10		Crimping tool for insulated cable connections 0.5 - 6 mm²	1	232
6205		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 0.5-1 mm²	50	174
6305		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 1.5-2.5 mm²	50	174
620C4		Ins. solderless terminal M4 DIN 46237, 0.5-1 mm², fork-type	50	175
630C4		Ins. solderless terminal M4 DIN 46237, 1.5-2.5 mm², fork-type	50	175
705		Ins. pin terminal DIN 46231, 0.5-1 mm², 22mm long	50	176
710		Ins. pin terminal DIN 46231, 1.5-2.5 mm², 23mm long	50	176
6505		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 4-6 mm²	25	174
715		Ins. pin terminal DIN 46231, 0.1-0.4 mm², 26mm long	25	176

MK 230 B 507 Metal assortment box with insulated terminals and crimping tool

Hammer-tone finished assortment box

Characteristics

- Dimensions: 366x230x51 mm
- * = not standardized

Item			Part No.	
Assortment box from steel with Ins. cable connections and crimping tool			**MK230B507**	
Scope of supply	Colour	Description	Quantity	Page
MK230L		Steel carrying case	1	214
K507		Crimping tool with interchangeable dies	1	258
6204		Ins. solderless terminal M4 DIN 46237, PA insulated sleeve, 0.5-1 mm²	50	174
6205		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 0.5-1 mm²	50	174
*6206		Ins. solderless terminal M6, PA insulated sleeve, 0.5-1 mm²	50	174
6304		Ins. solderless terminal M4 DIN 46237, PA insulated sleeve, 1.5-2.5 mm²	50	174
6305		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 1.5-2.5 mm²	50	174
6306		Ins. solderless terminal M6 DIN 46237, PA insulated sleeve, 1.5-2.5 mm²	50	174
670		Ins. butt connector, 0.5-1 mm²	50	183
680		Ins. butt connector, 1.5-2.5 mm²	50	183
705		Ins. pin terminal DIN 46231, 0.5-1 mm², 22mm long	50	176
710		Ins. pin terminal DIN 46231, 1.5-2.5 mm², 23mm long	50	176
730		Ins. receptacle 6.3x0.8 mm DIN 46245 part 3, 1.5-2.5 mm²	50	179
830		Ins. tab 6.3x0.8 mm, 1.5-2.5 mm²	50	182
620C4		Ins. solderless terminal M4 DIN 46237, 0.5-1 mm², fork-type	50	175
630C4		Ins. solderless terminal M4 DIN 46237, 1.5-2.5 mm², fork-type	50	175
715		Ins. pin terminal DIN 46231, 0.1-0.4 mm², 26mm long	25	176
700		Ins. butt connector, 4-6 mm²	25	183
6505		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 4-6 mm²	25	174
6506		Ins. solderless terminal M6 DIN 46237, PA insulated sleeve, 4-6 mm²	25	174
650C6		Ins. solderless terminal M6 DIN 46237, 4-6 mm², fork-type	25	175

LBOXX 230 B - plastic - with standard equipment for electrical installation

Characteristics

- Dimensions: 442x357x117 mm (W/D/H)

Item			Part No.	
L-BOXX from plastic with standard equipment for electrical installation.			**LBOXX230B**	
Scope of supply	Colour	Description	Quantity	Page
K432		Automatic wire stripping tool K43/2 0.02 - 10 mm²	1	516
K507		Crimping tool with interchangeable dies	1	258
720		Ins. receptacle 6.3x0.8 mm DIN 46245 part 3, 0.5-1 mm²	50	179
730		Ins. receptacle 6.3x0.8 mm DIN 46245 part 3, 1.5-2.5 mm²	50	179
820		Ins. tab 6.3x0.8 mm, 0.5-1 mm²	50	182
830		Ins. tab 6.3x0.8 mm, 1.5-2.5 mm²	50	182
6204		Ins. solderless terminal M4 DIN 46237, PA insulated sleeve, 0.5-1 mm²	50	174
6305		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 1.5-2.5 mm²	50	174
6506		Ins. solderless terminal M6 DIN 46237, PA insulated sleeve, 4-6 mm²	50	174
670		Ins. butt connector, 0.5-1 mm²	50	183
680		Ins. butt connector, 1.5-2.5 mm²	50	183
700		Ins. butt connector, 4-6 mm²	25	183
16505		Solderless terminals DIN 46234, 4-6 mm², M5, Cu tinned	50	88
16506		Solderless terminals, DIN 46234, 4-6 mm², M6, Cu tinned	50	88
1652C5		Solderless terminals, fork-type, 10 mm², M5, Cu-ETP tinned	50	92
1652C6		Solderless terminals, fork-type, 10 mm², M6, Cu-ETP tinned	50	92
4708		Ins. cable end-sleeve DIN 46228 part 4, 0.75 mm², 14mm long	400	157
4718		Ins. cable end-sleeve DIN 46228 part 4, 1 mm², 14mm long	400	157
4728		Ins. cable end-sleeve DIN 46228 part 4, 1.5 mm², 14mm long	400	157
4738		Ins. cable end-sleeve DIN 46228 part 4, 2.5 mm², 14mm long	200	157
47410		Ins. cable end-sleeve DIN 46228 part 4, 4 mm², 17mm long	100	157
47512		Ins. cable end-sleeve DIN 46228 part 4, 6 mm², 20mm long	100	157
47612		Ins. cable end-sleeve DIN 46228 part 4, 10 mm², 22mm long	100	157
LBOXX102LFG		L-BOXX with front handle (W/D/H: 442 x 357 x 117 mm)	1	

SK 82 P Plastic assortment box with insulated terminals and tools

Characteristics

- Dimensions: 395x295x106 mm

Item			Part No.	
Assortment box from plastic with insulated terminals and tools			SK82P	
Scope of supply	Colour	Description	Quantity	Page
K432		Automatic wire stripping tool K43/2 0.02 - 10 mm²	1	516
K82A		Crimping tool for insulated cable connections 0,5 - 6 mm²	1	234
6204		Ins. solderless terminal M4 DIN 46237, PA insulated sleeve, 0.5-1 mm²	50	174
6205		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 0.5-1 mm²	50	174
670		Ins. butt connector, 0.5-1 mm²	50	183
720		Ins. receptacle 6.3x0.8 mm DIN 46245 part 3, 0.5-1 mm²	50	179
6304		Ins. solderless terminal M4 DIN 46237, PA insulated sleeve, 1.5-2.5 mm²	50	174
6305		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 1.5-2.5 mm²	50	174
680		Ins. butt connector, 1.5-2.5 mm²	50	183
730		Ins. receptacle 6.3x0.8 mm DIN 46245 part 3, 1.5-2.5 mm²	50	179
6505		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 4-6 mm²	20	174
6506		Ins. solderless terminal M6 DIN 46237, PA insulated sleeve, 4-6 mm²	20	174
700		Ins. butt connector, 4-6 mm²	20	183
715		Ins. pin terminal DIN 46231, 0.1-0.4 mm², 26mm long	20	176
620C4		Ins. solderless terminal M4 DIN 46237, 0.5-1 mm², fork-type	20	175
630C4		Ins. solderless terminal M4 DIN 46237, 1.5-2.5 mm², fork-type	20	175
705		Ins. pin terminal DIN 46231, 0.5-1 mm², 22mm long	20	176
710		Ins. pin terminal DIN 46231, 1.5-2.5 mm², 23mm long	20	176

SK 82 S Plastic assortment box with insulated terminals and tools

Item			Part No.	
Assortment box from plastic with insulated terminals and tools			SK82S	
Scope of supply	Colour	Description	Quantity	Page
K82A		Crimping tool for insulated cable connections 0,5 - 6 mm²	1	234
6204		Ins. solderless terminal M4 DIN 46237, PA insulated sleeve, 0.5-1 mm²	20	174
6205		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 0.5-1 mm²	20	174
670		Ins. butt connector, 0.5-1 mm²	20	183
720		Ins. receptacle 6.3x0.8 mm DIN 46245 part 3, 0.5-1 mm²	20	179
6304		Ins. solderless terminal M4 DIN 46237, PA insulated sleeve, 1.5-2.5 mm²	20	174
680		Ins. butt connector, 1.5-2.5 mm²	20	183
730		Ins. receptacle 6.3x0.8 mm DIN 46245 part 3, 1.5-2.5 mm²	20	179
6305		Ins. solderless terminal M5 DIN 46237, PA insulated sleeve, 1.5-2.5 mm²	20	174

SK 30 L Steel carrying case

Hammer-tone finished assortment box

Characteristics

- 4 small and 1 large additional compartments with lock
- For optional storage of crimping tools type K1, K4, K46 and K48
- Dimensions: 200x140x40 mm
- Weight: 1.2 kg

Item	Part No.
Steel carrying case	**SK30L**

SK 32 L Steel carrying case

Hammer-tone finished assortment box

Characteristics

- 8 small and 1 large additional compartments with lock
- For optional storage of crimping tools type K3 and K35
- Dimensions: 285x155x45 mm
- Weight: 1.3 kg

Item	Part No.
Steel carrying case	**SK32L**

SK 4 L Steel carrying case

Hammer-tone finished assortment box

Characteristics

- 6 small and 1 large additional compartments with lock
- For optional storage of crimping tools type K02, K2, K16, K25, K28 and K29
- Dimensions: 370x160x40 mm
- Weight: 1.4 kg

Item	Part No.
Steel carrying case	**SK4L**

SK 43 L Steel carrying case

Hammer-tone finished assortment box

Characteristics

- 8 small and 2 large additional compartments with lock
- For storage of crimping tool K 32 and wire stripper K 41
- Dimensions: 370x210x40 mm
- Weight: 1.9 kg

Item	Part No.
Steel carrying case	**SK43L**

MK 55 Steel carrying case

Hammer-tone finished assortment box

Characteristics

- 8 small and 1 large additional compartments with lock
- For storage of 8 pairs of dies and crimping tool K50
- Dimensions: 245x130x37 mm
- Weight: 0.7 kg

Item	Part No.
Steel carrying case	**MK55**

MK 210 L Steel carrying case

Hammer-tone finished assortment box

Characteristics

- 4 small and 1 large additional compartments with lock
- For storage of crimping tools K 10 or K 82
- Dimensions: 250x155x40 mm
- Weight: 1.0 kg

Item	Part No.
Steel carrying case	**MK210L**

MK 220 L Steel carrying case

Hammer-tone finished assortment box

Characteristics

- 8 small and 1 large additional compartments with lock
- For storage of crimping tools K 10 or K 82
- Dimensions: 370x160x40 mm
- Weight: 1.4 kg

Item	Part No.
Steel carrying case	**MK220L**

MK 230 L Steel carrying case

Hammer-tone finished assortment box

Characteristics

- 19 small and 1 large additional compartments with lock and handle
- For storage of crimping tools K 10 or K 82
- Dimensions: 366x230x51 mm
- Weight: 2.4 kg

Item	Part No.
Steel carrying case	**MK230L**

SK 65 L Steel carrying case

Hammer-tone finished assortment box

Characteristics

- 12 small and 1 large additional compartments with lock and handle
- For optional storage of crimping tools type K 05, K 05 BC, K 35/4
- Dimensions: 400x250x50 mm
- Weight: 2.3 kg

Item	Part No.
Steel carrying case	**SK65L**

SK 120 L Steel carrying case

Hammer-tone finished assortment box

Characteristics

- 8 small and 1 large additional compartments with lock and handle
- For optional storage of crimping tools type K 06, K 06 BC, K 08, K 09 and K 09 BC or cable cutters K 105/1
- Dimensions: 680x265x65 mm
- Weight: 4.7 kg

Item	Part No.
Steel carrying case	**SK120L**

MK 18 Steel carrying case

Hammer-tone finished assortment box

Characteristics

- 34 small and 1 large additional compartments with lock and handle
- For storage of 34 pairs of dies and crimping tool K 18
- Dimensions: 605x300x50 mm
- Weight: 4.6 kg

Item	Part No.
Steel carrying case	**MK18**

MK 22 Steel carrying case

▸ Hammer-tone finished assortment box

Characteristics

- 17 small and 1 large additional compartments with lock and handle
- For storage of 17 pairs of dies and crimping tool K 22
- Dimensions: 600x220x65 mm
- Weight: 3.5 kg

Item	Part No.
Steel carrying case	**MK22**

KKPE Plastic case

Characteristics

- For storing complete crimping die sets
- With lock and handle

Item	Part No.
Plastic case for crimping dies of series 22	**KKPE**
Plastic case for crimping dies of series 4	**KKPEH25**

MK/KP 1 Plastic case

Characteristics

- For storage of crimping tools KP1 and KP1L and 10 crimping heads of the Klauke Pro Series
- With lock and handle
- Dimensions: 395x295x106 mm
- Weight: 1.0 kg

Item	Part No.
Plastic case	**MKKP1**

MKU Steel carrying case with wheels

▸ Hammer-tone finished assortment box

Characteristics

- With additional compartment for dies with lock and handle
- For storage of hydraulic crimping tools HK12/2, HK25/2 or HK45
- Dimensions: 810x310x210 mm
- Weight: 10.0 kg

Item	Part No.
Steel carrying case	**MKU**

TT2 Carrying bag

Characteristics

- For storage of all crimping and cutting heads (except SDK 105, SDK 120 and PK1000)
- Weight: 0.48 kg

Item	Part No.
Carrying bag	**TT2**

TT4 Carrying bag

Characteristics

- For storage of cutting heads SDK 105 and SDK 120
- Weight: 0.73 kg

Item	Part No.
Carrying bag	**TT4**