

# RELIABLE - ALUMINIUM COMPRESSION CABLE LUGS AND CONNECTORS TO DIN

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



## In brief

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

## ► Deep drawn

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

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

## ► Same excellent quality

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

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



## ► Flexibility in power line construction

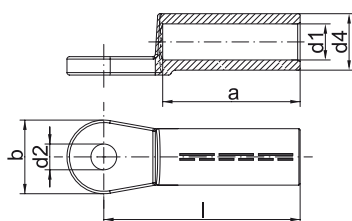
In power line construction too, Klauke products provide the flexible and reliable solution.

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





### Compression cable lugs to DIN, Al



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

#### Characteristics

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

#### Material

- E-aluminium

#### Surface

- Bright

#### Technical instructions

- Tool: see page 103

#### Additional information

- Part Number appendix for tinned version „V“
- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded
- 70 - 240 mm<sup>2</sup> UL-tested (tin-plated version)
- \* = not standardised

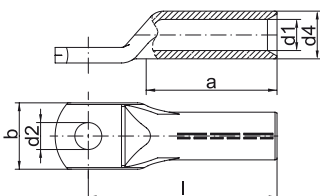
Size of bolt dia.	Part No.	Nominal cross section mm <sup>2</sup>		Hint	Code	Dimension mm						Number of crimps		Weight 100 pcs. ~kg	Packing unit/pcs
		rm/sm	re/se			a	b	d1	d2	d4	l	Al (7 mm)	Al (wide)		
M 8	263R8	16	25	*	12	30	20	5.8	8.4	12	50	4	2	1.20	4
M 10	263R10	16	25	*	12	30	20	5.8	10.5	12	50	4	2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

## Compression cable lugs to DIN, Al

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



### Compression cable lugs, Al



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

#### Characteristics

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

#### Material

- E-aluminium

#### Surface

- Bright

#### Technical instructions

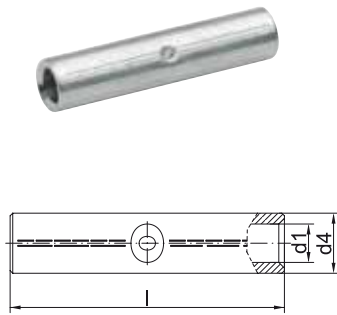
- Tool: see page 103

#### Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded
- 16 - 400 mm<sup>2</sup> IEC-tested

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

## Compression joint to DIN, Al



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

### Characteristics

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

### Material

- E-aluminium

### Surface

- Bright

### Technical instructions

- Tool: see page 103

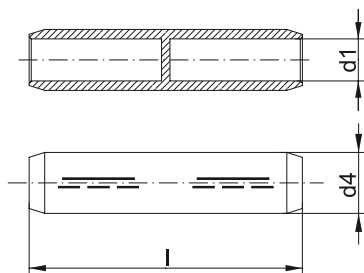
### Additional information

- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded
- 16 - 500 mm<sup>2</sup> IEC-tested
- \* = not standardised

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



### Compression joints, Al



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

#### Characteristics

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

#### Material

- E-aluminium

#### Surface

- Bright

#### Technical instructions

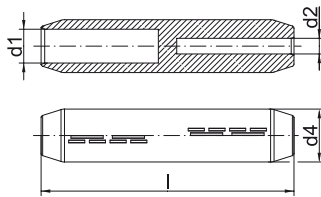
- Tool: see page 103

#### Additional information

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

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

## Reduction compression joints, Al, barrier type



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

### Characteristics

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

### Material

- E-aluminium

### Surface

- Bright

### Technical instructions

- Tools: see chart page 103

### Additional information

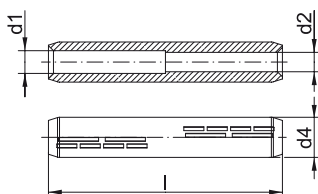
- re = round single solid wire, rm = round multi-stranded, se = sector shaped single solid wire, sm = sector shaped multi-stranded, sector shaped conductors must be pre-rounded

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





### Reduction-compression joints, Al



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

#### Characteristics

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

#### Material

- E-aluminium

#### Surface

- Bright

#### Technical instructions

- Tool: see page 103

#### Additional information

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

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

## Compression joint to DIN, Al, full tension



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

### Characteristics

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

### Material

- E-aluminium to 95 mm<sup>2</sup>
- AlMgSi from 120 mm<sup>2</sup>

### Surface

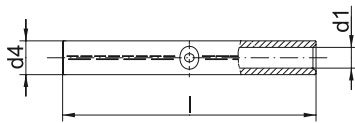
- Bright

### Technical instructions

- Tool: see page 103

### Additional information

- \* = not standardised



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



### Compression joint to DIN, Al/St



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

#### Characteristics

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

#### Material

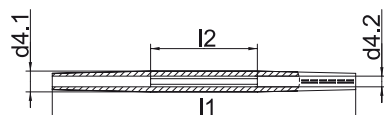
- Sleeve: E-aluminium
- Sleeve: Steel (St 52)

#### Surface

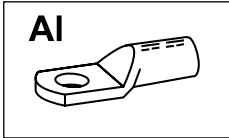
- Al sleeve: bright
- St sleeve: hot zinc galvanised

#### Technical instructions

- Tool: see page 105



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



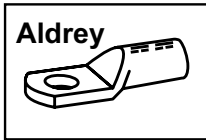
## Tool application chart

### Compression cable lugs and connectors made from E-AI

#### Compression cable lugs for full-tension connections from AI conductors DIN EN 50182, 16 - 95 mm<sup>2</sup>

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

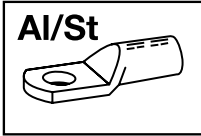
\* Not suitable for full-tension connections



## Tool application chart

Compression joints for full-tension connections from Aldrey conductors to DIN EN 50182 and Al conductors to DIN EN 50182, 120-300 mm<sup>2</sup>

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



## Tool application chart

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

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