

■ Compression cable lugs, Al/Cu 10 - 400 mm<sup>2</sup>

Cross section			Size of bolt Ø	Part No.	Code	Dimensions mm				Number of crimps		Weight		pcs.
rm/sm	mm <sup>2</sup>	se				d1	d2	b	l	mech.	hydr.	100 pcs. ~ kg	Total	
120	150		M 12	<b>309R12</b>	22	14.7	13.0	35	91	6	3	1.810	8.70	5
	150		M 16	<b>309R16</b>	22	14.7	17.0	38	91	6	3	2.230	8.80	5
150	185		M 12	<b>310R12</b>	25	16.3	13.0	35	103	6	3	2.025	12.20	5
	185		M 16	<b>310R16</b>	25	16.3	17.0	41	103	6	3	2.655	12.30	5
	185		M 20	<b>310R20</b>	25	16.3	21.0	44	103	6	3	3.620	12.80	5
185	240		M 12	<b>311R12</b>	28	18.3	13.0	40	106	6	3	2.320	15.00	5
	240		M 16	<b>311R16</b>	28	18.3	17.0	42	106	6	3	4.975	15.50	5
	240		M 20	<b>311R20</b>	28	18.3	21.0	46	106	6	3	4.610	15.50	5
240	300		M 12	<b>312R12</b>	32	21.0	13.0	45	116	8	3	2.750	20.00	5
	300		M 16	<b>312R16</b>	32	21.0	17.0	45	116	8	3	3.400	21.00	5
	300		M 20	<b>312R20</b>	32	21.0	21.0	49	116	8	3	4.600	22.00	5
300	--		M 16	<b>313R16</b>	34	23.3	17.0	51	124	8	3	3.980	21.60	1
	--		M 20	<b>313R20</b>	34	23.3	21.0	51	124	8	3	5.510	22.20	1
400	--		M 16	<b>314R16</b>	38	26.0	17.0	58	165	--	4	4.200	35.00	1
	--		M 20	<b>314R20</b>	38	26.0	21.0	58	165	--	4	5.950	35.00	1

► Tool: see chart page 121



■ Compression joints, Al/Cu 10 - 300 mm<sup>2</sup>

■ For connecting non-tension aluminium and copper connections

**Characteristics**

- For non-tension connections of Al cables to DIN 48201, part 1 and aluminium cables to DIN EN 50182 and Cu cables to DIN 48201
- With markings for correct crimping

**Material**

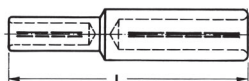
- E-Al
- Copper to EN 13600

**Surface**

- bright

**Order info**

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



Nominal cross-section mm <sup>2</sup>			Part No.	Code		Dimensions mm			Weight		pcs.
rm/sm	Al	Cu		Al	Cu	Al	Cu	l	100 pcs. ~ kg	Total	
10	16	10	<b>322R10</b>	10	6	5.0	4.5	55.0	0.212	1.100	4
10	16	16	<b>322R16</b>	10	8	5.0	5.4	61.0	0.714	1.550	4
16	25	10	<b>323R10</b>	12	6	6.0	4.5	55.0	0.212	1.500	4
16	25	16	<b>323R16</b>	12	8	6.0	5.4	61.0	0.714	1.750	4
25	35	10	<b>324R10</b>	12	6	6.8	4.5	55.0	0.212	1.400	4
25	35	16	<b>324R16</b>	12	8	6.8	5.5	61.0	0.714	1.650	4
25	35	25	<b>324R25</b>	12	10	6.8	7.0	61.0	0.892	1.900	4
25	35	35	<b>324R35</b>	12	12	6.8	8.2	61.0	1.624	2.000	4
25	35	50	<b>324R50</b>	12	14	6.8	10.0	72.0	2.362	3.500	4
25/4	35 re	16	<b>324R416</b>	12	8	7.6	5.5	61.0	0.714	1.600	4
25/4	35 re	25	<b>324R425</b>	12	10	7.6	7.0	61.0	0.892	1.850	4

■ **Compression joints, Al/Cu 10 - 300 mm<sup>2</sup>**

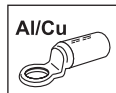
Nominal cross-section mm <sup>2</sup>			Part No.	Code		Dimensions mm			Weight		pcs.
Al mm <sup>2</sup>	Cu mm <sup>2</sup>	se		Al	Cu	Al	Cu	l	100 pcs. ~ Cu	kg Total	
35	50	16	<b>325R16</b>	14	8	8.0	5.5	71.0	0.714	2.500	4
35	50	25	<b>325R25</b>	14	10	8.0	7.0	71.0	0.892	2.650	4
35	50	35	<b>325R35</b>	14	12	8.0	8.2	71.0	1.519	3.300	4
35	50	50	<b>325R50</b>	14	14	8.0	10.0	77.0	2.362	3.530	4
35/6	50 re	16	<b>325R616</b>	14	8	9.0	5.5	71.0	0.714	2.450	4
35/6	50 re	25	<b>325R625</b>	14	10	9.0	7.0	71.0	0.892	2.600	4
35/6	50 re	35	<b>325R635</b>	14	12	9.0	8.2	71.0	1.624	3.250	4
50	70	16	<b>326R16</b>	16	8	9.8	5.5	71.5	0.714	2.850	4
50	70	25	<b>326R25</b>	16	10	9.8	7.0	71.5	0.892	3.200	4
50	70	35	<b>326R35</b>	16	12	9.8	8.2	71.5	1.624	3.800	4
50	70	50	<b>326R50</b>	16	14	9.8	10.0	77.5	2.362	4.550	4
70	95	16	<b>327R16</b>	18	8	11.2	5.5	79.0	0.714	4.100	4
70	95	25	<b>327R25</b>	18	10	11.2	7.0	79.0	0.892	3.950	4
70	95	35	<b>327R35</b>	18	12	11.2	8.2	79.0	1.624	4.900	4
70	95	50	<b>327R50</b>	18	14	11.2	10.0	85.0	2.362	5.700	4
70	95	70	<b>327R70</b>	18	16	11.2	11.5	86.0	2.921	7.250	4
70	95	95	<b>327R95</b>	18	18	11.2	13.5	95.0	4.957	9.360	4
70	95	120	<b>327R120</b>	18	20	11.2	15.5	99.0	5.640	10.540	4
95	120	16	<b>328R16</b>	22	8	13.2	5.5	79.0	0.714	6.150	4
95	120	25	<b>328R25</b>	22	10	13.2	7.0	79.0	0.892	6.300	4
95	120	35	<b>328R35</b>	22	12	13.2	8.2	79.0	1.519	6.800	4
95	120	50	<b>328R50</b>	22	14	13.2	10.0	85.0	2.362	8.050	4
95	120	70	<b>328R70</b>	22	16	13.2	11.5	87.0	3.105	8.200	4
95	120	95	<b>328R95</b>	22	18	13.2	13.5	95.0	4.957	10.350	4
95	120	120	<b>328R120</b>	22	20	13.2	15.5	95.0	5.640	11.550	4
120	150	35	<b>329R35</b>	22	12	14.7	8.2	81.0	1.519	7.600	4
120	150	50	<b>329R50</b>	22	14	14.7	10.0	87.0	2.362	7.900	4
120	150	70	<b>329R70</b>	22	16	14.7	11.5	89.0	3.105	8.500	4
120	150	95	<b>329R95</b>	22	18	14.7	13.5	97.0	4.857	11.000	4
120	150	120	<b>329R120</b>	22	20	14.7	15.5	97.0	5.640	10.280	4
150	185	16	<b>330R16</b>	25	8	16.3	5.4	91.5	0.714	7.800	4
150	185	25	<b>330R25</b>	25	10	16.3	6.8	91.5	0.892	8.000	4
150	185	35	<b>330R35</b>	25	12	16.3	8.2	91.5	1.624	8.400	4
150	185	50	<b>330R50</b>	25	14	16.3	10.0	98.5	2.362	10.200	4
150	185	70	<b>330R70</b>	25	16	16.3	11.5	99.5	3.105	10.350	4
150	185	95	<b>330R95</b>	25	18	16.3	13.5	107.5	4.957	12.650	4
150	185	120	<b>330R120</b>	25	20	16.3	15.5	107.5	5.640	13.900	4
150	185	150	<b>330R150</b>	25	22	16.3	17.0	124.0	8.231	16.700	4
185	240	50	<b>331R50</b>	28	14	18.3	10.0	99.0	2.362	12.100	1
185	240	70	<b>331R70</b>	28	16	18.3	11.5	100.0	3.105	13.000	1
185	240	95	<b>331R95</b>	28	18	18.3	13.5	108.0	4.957	14.450	1
185	240	120	<b>331R120</b>	28	20	18.3	15.5	108.0	5.640	13.720	1
185	240	150	<b>331R150</b>	28	22	18.3	17.0	113.0	8.231	19.550	1
185	240	185	<b>331R185</b>	28	25	18.3	19.0	116.0	9.621	21.000	1
240	300	50	<b>332R50</b>	32	14	21.0	10.0	110.0	2.362	16.500	1
240	300	70	<b>332R70</b>	32	16	21.0	11.5	111.0	3.105	18.000	1
240	300	95	<b>332R95</b>	32	18	21.0	13.5	119.0	4.957	19.000	1
240	300	120	<b>332R120</b>	32	20	21.0	15.5	119.0	5.640	20.500	5
240	300	150	<b>332R150</b>	32	22	21.0	17.0	124.0	8.231	23.300	1
240	300	185	<b>332R185</b>	32	25	21.0	19.0	127.0	9.621	25.500	1
240	300	240	<b>332R240</b>	32	28	21.0	21.5	128.0	12.705	30.100	1



■ Compression joints, Al/Cu 10 - 300 mm<sup>2</sup>

Nominal cross-section mm <sup>2</sup>			Part No.	Code		Dimensions mm			Weight		pcs.
rm/sm	Al se	Cu rm/sm		Al	Cu	Al	Cu	l	100 pcs. ~ kg	Total	
300	--	120	<b>333R120</b>	34	20	23.5	15.5	119.0	5.640	27.800	1
300	--	150	<b>333R150</b>	34	22	23.5	17.0	124.0	8.234	31.100	1
300	--	185	<b>333R185</b>	34	25	23.5	19.0	127.0	9.621	32.700	1
300	--	240	<b>333R240</b>	34	28	23.5	21.5	128.0	12.705	37.500	1
300	--	300	<b>333R300</b>	34	32	23.5	24.5	134.0	16.099	41.700	1

▶ Tool: see chart page 121



■ Compression joints with copper connecting bolt Al 25 - 300 mm<sup>2</sup>

- For screwing non-tension Al connections in Cu clamps
- For non-tension connections of Al cables to DIN 48201, part 1 and aluminium cables to DIN EN 50182
- For pre-rounded sector shaped conductors

Characteristics

- With markings for correct crimping

Material

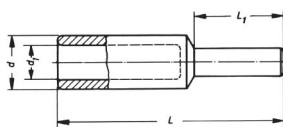
- E-Al
- Copper to EN 13600

Surface

- bright

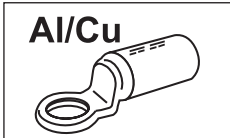
Order info

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



Cross section mm <sup>2</sup>		Part No.	Code	Bolt Ø mm	Conductor Ø mm	Dimensions mm				Weight		pcs.
rm/sm	se					dØ	d1Ø	l1	l	Cu	Total	
25	35	<b>344R</b>	12	6	6.3	12.0	6.8	20	58	0.462	1.6	10
35	50	<b>345R</b>	14	7	7.5	14.0	8.0	22	71	0.695	2.5	10
50	70	<b>346R</b>	16	8	9.0	16.0	10.0	25	74	1.037	3.3	10
70	95	<b>347R</b>	18	10	10.5	18.5	11.5	30	87	1.958	5.4	10
95	120	<b>348R</b>	22	12	12.5	23.0	13.2	33	91	3.112	8.7	10
120	150	<b>349R</b>	22	12	14.0	23.0	15.0	38	97	3.598	9.0	10
150	185	<b>350R</b>	25	12	15.8	25.5	16.5	38	108	3.598	10.9	10
185	240	<b>351R</b>	28	14	17.5	28.5	18.5	44	116	3.692	15.7	5
240	300	<b>352R</b>	32	16	20.3	32.5	21.5	44	128	7.435	21.8	5
300	--	<b>353R</b>	34	18	22.5	34.5	23.5	46	131	9.410	26.7	1

▶ Tool: see chart page 121



■ **Tool application chart**

**Compression cable lugs and connectors made from Al/Cu**

Crimping range corresponds to nominal cross-section mm <sup>2</sup>	Crimping tools		Tool type						Crimping 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	EK354					•			⬡	324	
10-185	K18			•					⬡	274	
	HK6018				•				⬡	294	
	EK18PLUS					•			⬡	326	
	PK18							•	⬡	387	
	THK18						•		⬡	358	
	HK60UNV + UA18					•			⬡	309	
	EK60UNV + UA18						•		⬡	347	
	PK60UNV + UA18							•	⬡	405	
10-240	K22			•					⬡	276	
	HK6022				•				⬡	296	
	EK22PLUS					•			⬡	328	
	PK22							•	⬡	389	
	THK22						•		⬡	360	
	HK60UNV + UA22					•			⬡	309	
	EK60UNV + UA22						•		⬡	347	
	PK60UNV + UA22							•	⬡	405	
	HK12025					•			⬡	300	
	HK12042					•			⬡	302	
	HK120U					•			⬡	304	
	EK12025						•		⬡	332	
	EK12042						•		⬡	334	
	EK120UPLUS						•		⬡	336	
	HK122							•	⬡	362	
	HK122EL220							•	⬡	367	
	HK122EL380							•	⬡	367	
	PK12038								•	⬡	393
	PK120U								•	⬡	395
	10-500	HK252						•		⬡	364
HK252EL220								•	⬡	369	
HK252EL380								•	⬡	369	
PK252									•	⬡	397
150-500	HK45				•				⬡	366	
	PK45								•	⬡	399