

# PUNCHED - SOLDERLESS TERMINALS MADE FROM COPPER TO DIN 46234

Unlike the tubular cable lugs, Klauke solderless terminals are punched from a sheet, bent and then hard soldered in the crimp area. The grooved profile on the inside ensures higher conductor pull-out values. This product's small dimensions make it the ideal solution for confined areas.



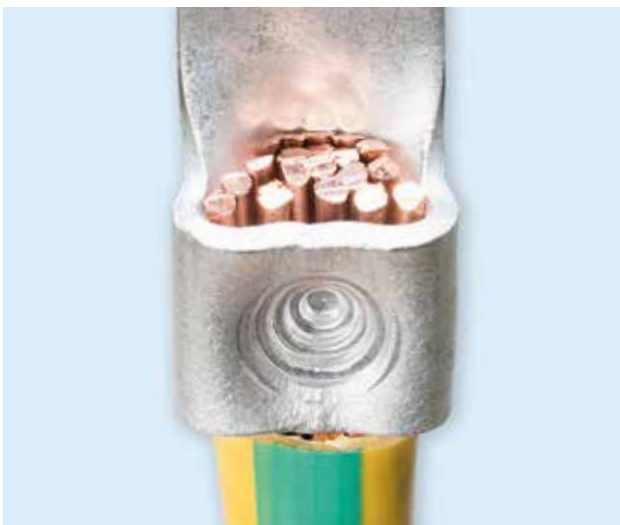
#### **In brief**

- ▶ **Reliable crimping due to high-quality solder seam**
- ▶ **Small dimensions for confined areas**
- ▶ **Suitable for multi-stranded, fine-stranded and superfine-stranded conductors**

**▶ Hard soldered for reliable contact**

The quality of Klauke cable lugs is also evident during the crimping operation: The solderless terminal always remains intact due to the high-quality solder seam. Guaranteed quality.

- Reliable contact due to high-quality solder seam and tinning
- Best possible contacting with ribbed profile
- Optimum solution for confined areas thanks to highly-compact dimensions
- Insulated and non-insulated versions



**▶ Well insulated**

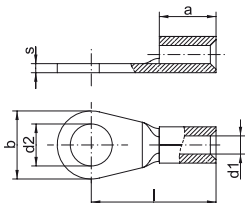
Klauke products make your day-to-day work easier. Thanks to the widened insulation, the conductor can be very conveniently inserted into our insulated solderless terminals. The insulation remains intact even after crimping, eliminating the need for retrospective insulation. Everything accomplished in one operation.

- Easy to use thanks to widened sleeve
- No additional insulation, hence fast processing
- As a fork-type, ideal for connecting meters in confined areas for example
- Easy conductor insertion thanks to widened sleeve





### Solderless terminals to DIN, Cu



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ To DIN 46234
- ▶ High-quality brazing process in the crimp area



#### Characteristics

- Improved contact properties due to grooved profile



#### Material

- Copper (EN13599)



#### Surface

- Tin-plated to protect against corrosion



#### Technical instructions

- Tool: see page 82

#### Additional information

- \* = not standardised
- 0.5 - 6 mm<sup>2</sup> not UL-tested

Nominal cross section mm <sup>2</sup>	Nominal size to DIN	Part No.	Hint	Dimension mm						Weight/100 pcs. ~ kg	Packing unit/pcs
				a	b	d1	d2	l	s		
0.5 - 1	2.5 - 1	<b>162025</b>		5	6	1.6	2.8	11	0.8	0.060	100
	3 - 1	<b>16203</b>		5	6	1.6	3.2	11	0.8	0.060	100
	3.5 - 1	<b>162035</b>		5	6	1.6	3.7	11	0.8	0.055	100
	4 - 1	<b>16204</b>		5	8	1.6	4.3	12	0.8	0.070	100
	5 - 1	<b>16205</b>		5	10	1.6	5.3	13	0.8	0.090	100
	6 - 1	<b>16206</b>	*	5	11	1.6	6.5	15	0.8	0.080	100
	8 - 1	<b>16208</b>	*	5	14	1.6	8.4	17	0.8	0.130	100
	10 - 1	<b>162010</b>	*	5	18	1.6	10.5	19	0.8	0.130	100
1.5 - 2.5	3 - 2.5	<b>16303</b>		5	6	2.3	3.2	11	0.8	0.065	100
	4 - 2.5	<b>16304</b>		5	8	2.3	4.3	12	0.8	0.080	100
	3.5 - 2.5	<b>163035</b>		5	6	2.3	3.7	11	0.8	0.065	100
	5 - 2.5	<b>16305</b>		5	10	2.3	5.3	14	0.8	0.090	100
	6 - 2.5	<b>16306</b>		5	11	2.3	6.5	16	0.8	0.110	100
	8 - 2.5	<b>16308</b>		5	14	2.3	8.4	17	0.8	0.130	100
4 - 6	10 - 2.5	<b>163010</b>	*	5	18	2.3	10.5	19	0.8	0.160	100
	12 - 2.5	<b>163012</b>	*	5	18	2.3	12.5	19	0.8	0.160	100
	4 - 6	<b>16504</b>		6	8	3.6	4.3	14	1.0	0.140	100
	5 - 6	<b>16505</b>		6	10	3.6	5.3	15	1.0	0.160	100
	6 - 6	<b>16506</b>		6	11	3.6	6.5	16	1.0	0.170	100
	8 - 6	<b>16508</b>		6	14	3.6	8.4	19	1.0	0.220	100
10	10 - 6	<b>165010</b>		6	18	3.6	10.5	21	1.0	0.290	100
	12 - 6	<b>165012</b>	*	6	18	3.6	13.0	21	1.0	0.280	100
	5 - 10	<b>16525</b>		8	10	4.5	5.3	16	1.1	0.230	100
	6 - 10	<b>16526</b>		8	11	4.5	6.5	17	1.1	0.24	100
	8 - 10	<b>16528</b>		8	14	4.5	8.4	20	1.1	0.340	100
16	10 - 10	<b>165210</b>		8	18	4.5	10.5	21	1.1	0.340	100
	12 - 10	<b>165212</b>		8	22	4.5	13.0	23	1.1	0.420	100
	5 - 16	<b>16535</b>		10	11	5.8	5.3	20	1.2	0.390	100
	6 - 16	<b>16536</b>		10	11	5.8	6.5	20	1.2	0.380	100
	8 - 16	<b>16538</b>		10	14	5.8	8.4	22	1.2	0.43	100
	10 - 16	<b>165310</b>		10	18	5.8	10.5	24	1.2	0.500	100
	12 - 16	<b>165312</b>		10	22	5.8	13.0	24	1.2	0.500	100

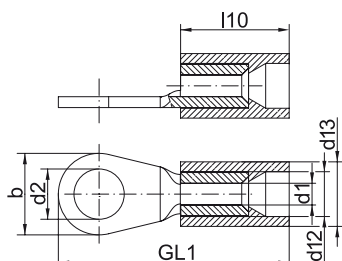
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## Solderless terminals to DIN, Cu

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



## Insulated solderless terminals, Cu with Easy-Entry



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ High-quality brazing process in the crimp area
- ▶ Fast preparation as no additional insulation of the crimped connection is required
- ▶ Simple processing due to crimping over the insulation
- ▶ Insulation sleeve halogen-free

### Characteristics

- Insulating, halogen-free with easy-entry cable insertion
- Dimensions in tube according to DIN 46234
- Improved contact properties due to grooved profile
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

### Material

- Copper (EN13599)
- Insulation sleeve: PA

### Surface

- Tin-plated to protect against corrosion

### Technical instructions

- Tool: see page 84

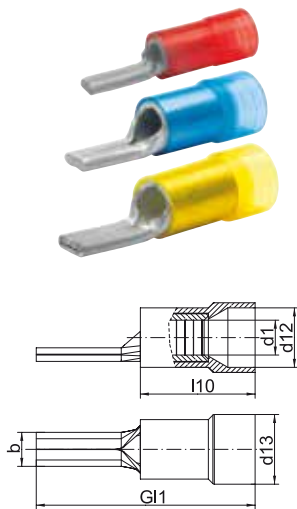
Nominal cross section mm <sup>2</sup>	Part No.	Colour	Dimension mm							Weight 100 pcs. ~kg Cu	Weight 100 pcs. ~kg Total	Packing unit/ pcs
			b	d1	d12	d13	d2	GL1	l10			
10	6526	■	11	4.5	6.7	8.6	6.5	34.0	19.0	0.24	0.28	100
	6528	■	14	4.5	6.7	8.6	8.4	37.5	19.0	0.29	0.33	100
	65210	■	18	4.5	6.7	8.6	10.5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

see next page

## Insulated solderless terminals, Cu with Easy-Entry

Nominal cross section mm <sup>2</sup>	Part No.	Colour	Dimension mm							Weight 100 pcs. ~kg Cu	Weight 100 pcs. ~kg Total	Packing unit/ pcs
			b	d1	d12	d13	d2	GI1	l10			
70	6576	Yellow	22	13.0	17.4	20.0	6.5	61.5	30.5	2.60	2.90	50
	6578	Yellow	22	13.0	17.4	20.0	8.4	61.5	30.5	2.50	2.80	50
	65710	Yellow	22	13.0	17.4	20.0	10.5	66.5	30.5	2.50	2.80	50
	65712	Yellow	22	13.0	17.4	20.0	13.0	66.5	30.5	2.40	2.70	50
	65716	Yellow	28	13.0	17.4	20.0	17.0	70.5	30.5	2.70	3.00	50
95	65810	Red	24	15.0	20.5	23.5	10.5	70.0	34.0	4.10	4.50	25
	65812	Red	24	15.0	20.5	23.5	13.0	70.0	34.0	3.90	4.40	25
	65816	Red	28	15.0	20.5	23.5	17.0	76.0	34.0	4.10	4.50	25
120	65910	Dark Blue	24	17.0	23.5	26.7	10.5	79.0	36.0	5.60	6.10	25
	65912	Dark Blue	24	17.0	23.5	26.7	13.0	82.0	36.0	5.40	5.90	25
	65916	Dark Blue	28	17.0	23.5	26.7	17.0	90.0	36.0	5.80	6.30	25
150	66010	Yellow	30	19.0	26.0	29.2	10.5	80.0	39.0	7.60	8.40	25
	66012	Yellow	30	19.0	26.0	29.2	13.0	83.0	39.0	7.60	8.40	25
	66016	Yellow	30	19.0	26.0	29.2	17.0	83.0	39.0	7.50	8.30	25

## Insulated pin terminals, Cu with Easy-Entry



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ High-quality brazing process in the crimp area
- ▶ Fast preparation as no additional insulation of the crimped connection is required
- ▶ Insulation sleeve halogen-free

### Characteristics

- Insulating, halogen-free with easy-entry cable insertion
- Improved contact properties due to grooved profile
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

### Material

- Copper (EN13599)
- Insulation sleeve: PA

### Surface

- Tin-plated to protect against corrosion

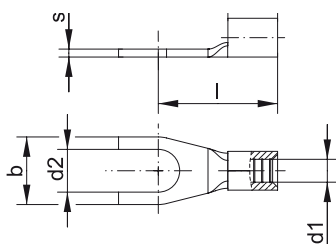
### Technical instructions

- Tool: see page 84

Nominal cross section mm <sup>2</sup>	Part No.	Colour	Dimension mm						Weight 100 pcs. ~kg Cu	Weight 100 pcs. ~kg Total	Packing unit/ pcs
			b	d1	d12	d13	GI1	l10			
10	ST1716IS	Red	4.3	4.3	7.4	9.4	33.0	19.0	0.27	0.31	100
16	ST1717IS	Dark Blue	5.5	5.4	8.6	10.6	38.0	20.0	0.39	0.44	100
25	ST1718IS	Yellow	6.8	6.7	12.5	14.5	43.5	23.5	0.63	0.73	50
35	ST1719IS	Red	8.0	8.2	14.0	16.4	51.5	27.5	1.17	1.34	50
50	ST1720IS	Dark Blue	9.5	9.5	15.5	18.0	59.0	33.0	1.79	2.10	50
70	ST1721IS	Yellow	11.0	11.2	18.0	20.5	69.0	38.0	2.92	3.20	50
95	ST1722IS	Red	12.5	13.5	20.7	23.5	71.0	40.0	4.30	4.70	25



### Solderless terminals, Cu, fork type



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ Dimensions in tube to 6 mm<sup>2</sup> to DIN 46234
- ▶ Simple fork-type mounting
- ▶ High-quality brazing process in the crimp area



#### Characteristics

- Improved contact properties due to grooved profile



#### Material

- Copper (EN13599)



#### Surface

- Tin-plated to protect against corrosion



#### Technical instructions

- Tool: see page 82

#### Additional information

- 0.5 - 6 mm<sup>2</sup> not UL-certified

Nominal cross section mm <sup>2</sup>	Nominal size to DIN	Part No.	Dimension mm						Weight 100 pcs. ~kg	Packing unit/ pcs
			a	b	d1	d2	l	s		
0.5 - 1	3 - 1	<b>1620C3</b>	5.0	6.0	1.6	3.2	11.0	0.8	0.060	100
	3.5 - 1	<b>1620C35</b>	5.0	6.0	1.6	3.7	11.0	0.8	0.060	100
	4 - 1	<b>1620C4</b>	5.0	6.8	1.6	4.3	12.0	0.8	0.070	100
	5 - 1	<b>1620C5</b>	5.0	10.0	1.6	5.3	13.0	0.8	0.090	100
	6 - 1	<b>1620C6</b>	5.0	11.0	1.6	6.5	15.0	0.8	0.080	100
1.5 - 2.5	3 - 2.5	<b>1630C3</b>	5.0	5.5	2.3	3.2	13.8	0.8	0.065	100
	3.5 - 2.5	<b>1630C35</b>	5.0	6.0	2.3	3.7	11.0	0.8	0.065	100
	4 - 2.5	<b>1630C4</b>	5.0	6.8	2.3	4.3	12.0	0.8	0.080	100
	5 - 2.5	<b>1630C5</b>	5.0	10.0	2.3	5.3	14.0	0.8	0.090	100
	6 - 2.5	<b>1630C6</b>	5.0	11.0	2.3	6.5	16.0	0.8	0.110	100
4 - 6	4 - 6	<b>1650C4</b>	6.0	8.0	3.6	4.3	14.0	1.0	0.140	100
	5 - 6	<b>1650C5</b>	6.0	10.0	3.6	5.3	15.0	1.0	0.160	100
	6 - 6	<b>1650C6</b>	6.0	11.0	3.6	6.5	16.0	1.0	0.170	100
	8 - 6	<b>1650C8</b>	6.0	14.0	3.6	8.4	19.0	1.0	0.220	100
10	5 - 10	<b>1652C5</b>	10.0	10.0	4.3	5.3	19.0	1.0	0.240	100
	6 - 10	<b>1652C6</b>	10.0	11.0	4.3	6.4	21.0	1.0	0.260	100
16	6 - 16	<b>1653C6</b>	11.5	11.0	5.8	6.4	24.0	1.0	0.350	100

## Pin terminals to DIN, Cu



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ Nominal cross-sections 0.5 - 6 mm<sup>2</sup> to DIN 46230
- ▶ High-quality brazing process in the crimp area

### Characteristics

- Improved contact properties due to grooved profile

### Material

- Copper (EN13599)

### Surface

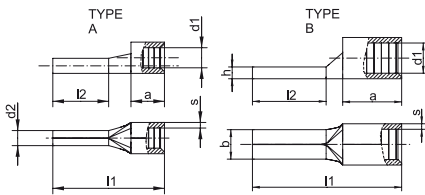
- Tin-plated to protect against corrosion

### Technical instructions

- Tool: see page 82

### Additional information

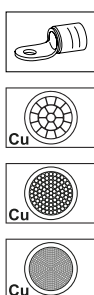
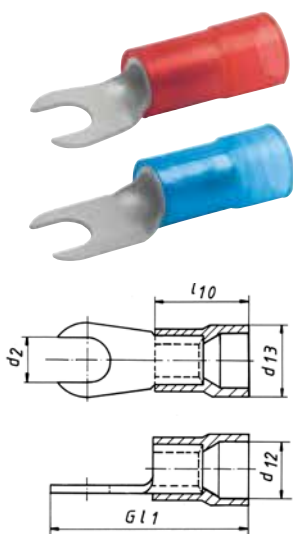
- \* = not standardised
- 0.5 - 6 mm<sup>2</sup> not UL-tested



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



## Insulated solderless terminals for meter connections, Cu, fork type



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ Special design for meter connection
- ▶ High-quality brazing process in the crimp area
- ▶ Fast preparation as no additional insulation of the crimped connection is required
- ▶ Insulation sleeve halogen-free

### Characteristics

- Improved contact properties due to grooved profile
- Cross-section-dependent colour-coding
- Heat resistant to 105° C

### Material

- Copper (EN13599)
- Insulation sleeve: PA

### Surface

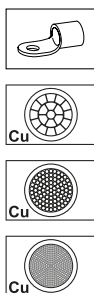
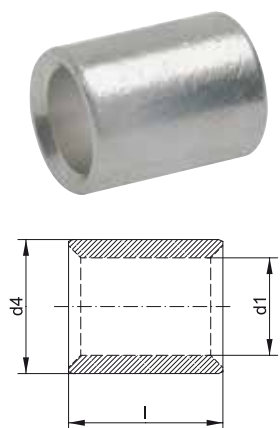
- Tin-plated to protect against corrosion

### Technical instructions

- Tool: see page 84

Nominal cross section mm <sup>2</sup>	Part No.	Colour	Dimension mm					Gewicht 100 St. ~kg Cu	Gewicht 100 St. ~kg Ges.	Packing unit/ pcs
			d12	d13	d2	G l 1	l10			
10	<b>652C5</b>	Red	7.0	9.6	5.3	33.5	19.0	0.24	0.28	100
	<b>652C6</b>	Red	7.0	9.6	6.4	33.5	19.0	0.26	0.30	100
16	<b>653C6</b>	Blue	8.6	10.6	6.4	37.5	20.5	0.35	0.40	100

## Solderless connectors to DIN, Cu, short type



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ To DIN 46341, Part 1, Form A
- ▶ Ideal for connecting differing conductor cross-sections

### Characteristics

- Simple cable entry due to internal chamfer
- Annealed material optimises material and crimping properties

### Material

- Copper (EN13600)

### Surface

- Tin-plated to protect against corrosion

### Technical instructions

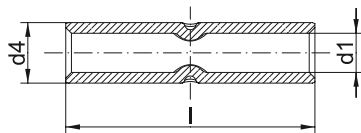
- Tool: see page 82

### Additional information

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

Nominal cross section mm <sup>2</sup>	Nominal size to DIN	Part No.	Dimension mm			Weight 100 pcs. ~kg	Packing unit/pcs
			d1	d4	l		
> 0.5 - 1	1	<b>1620K</b>	1.8	3.3	8	0.045	100
> 1 - 2.5	2.5	<b>1630K</b>	2.5	4.1	8	0.055	100
> 2.5 - 6	6	<b>1650K</b>	3.8	5.8	9	0.090	100
> 6 - 10	10	<b>1652K</b>	4.7	6.9	10	0.170	100
> 10 - 16	16	<b>1653K</b>	5.8	8.4	11	0.260	100
> 16 - 25	25	<b>1654K</b>	7.7	10.7	14	0.510	100
> 25 - 35	35	<b>1655K</b>	9.2	12.4	16	0.730	100
> 35 - 50	50	<b>1656K</b>	11.2	14.8	19	1.200	100
> 50 - 70	70	<b>1657K</b>	13.2	17.2	19	1.530	50
> 70 - 95	95	<b>1658K</b>	15.3	20.3	20	2.370	50
> 95 - 120	120	<b>1659K</b>	16.8	22.8	22	3.450	50
> 120 - 150	150	<b>1660K</b>	19.3	25.7	26	5.060	50

## Solderless connectors to DIN, Cu, long type



- ▶ For round conductors, e.g. to DIN EN 60228 Cl. 2, 5 and 6
- ▶ To DIN 46341, Part 1, Form B
- ▶ Simple and safe processing due to butt mark



### Characteristics

- Simple cable entry due to internal chamfer
- Annealed material optimises material and crimping properties



### Material

- Copper (EN13600)



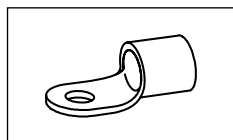
### Surface

- Tin-plated to protect against corrosion

### Technical instructions

- Tool: see page 82

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

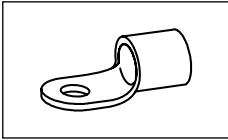


## Tool application chart

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

Tool type	Crimping range corresponds to nominal cross-section mm <sup>2</sup>	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	0,5 - 16	K25		225		
	16 - 95	K95		225		
		TK95		225		
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	0,5 - 10	K50		235	312	
		EK50ML		244	312	
		K507		234		
	6 - 35	K354		236	316	
	10 - 70	K18		238	324	
		K22		240	329	
Hand hydraulic crimping tools	10 - 70	HK6018		280	324	
		HK60UNV	+UA18	465	324	
		HK6022		282	329	
		HK60UNV	+UA22	465	329	
	10 - 150	HK12030		286	335	
		HK12042		288	335	
		HK120U		290	335	
Battery powered crimping tools	0,5 - 10	EK1550ML		248	312	
	6 - 35	EK354ML		250	316	
		EK354		256	316	
	6 - 95	EK30IDML		247		
	10 - 50	EK505		258	320	
	10 - 70	EK5018		260	324	
		EK60UNV	+UA18	468	324	
		EKM60UNV	+UA18	467	324	
		EK6022		264	329	
		EKM6022		262	329	
		EK60UNV	+UA22	468	329	
		EKM60UNV	+UA22	467	329	
		10 - 240	EKM60ID		268	
	10 - 150	EK12032		270	335	
		EK12042		272	335	
		EK120U		274	335	
EK135FT		+UA15T	276	335		
	EK120UNV	+UA12T	469	335		

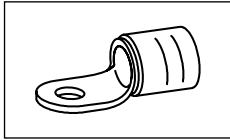
see next page



## Tool application chart

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

Tool type	Crimping range corresponds to nominal cross-section mm <sup>2</sup>	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Hydraulic crimping systems	10 - 70	THK18		294	324	
		THK22		296	329	
	10 - 150	THK120		300	335	
	10 - 240	HK252	+25A13	308	335 + 340	
Hydraulic crimping heads	10 - 70	PK18		294	324	
		PK60UNV	+UA18	466	324	
		PK22		296	329	
		PK60UNV	+UA22	466	329	
	10 - 240	PK60ID		299		
	10 - 150	PK12042		300	335	
		PK120U		302	335	
	10 - 240	PK252	+25A13	304	335 + 340	



### Tool application chart

**Isolierte Quetschkabelschuhe**  
**Isolierte Stiftkabelschuhe**

Tool type	Crimping range corresponds to nominal cross-section mm <sup>2</sup>	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
<b>Mechanical crimping tools</b>	<b>10 - 16</b>	K16		220		○
<b>Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads</b>	<b>10 - 16</b>	K50		235	313	○
		EK50ML		244	313	○
		K354		236	316	○
	<b>10 - 50</b>	K18		238	324	☾
	<b>10 - 70</b>	K22		240	329	☾
<b>Hand hydraulic crimping tools</b>	<b>10 - 50</b>	HK6018		280	324	☾
		HK60UNV	+UA18	465	324	☾
	<b>10 - 70</b>	HK6022		282	329	☾
		HK60UNV	+UA22	465	329	☾
	<b>10 - 95</b>	HK12030		286	335	☾
		HK12042		288	335	☾
		HK120U		290	335	☾
<b>Battery powered crimping tools</b>	<b>10 - 16</b>	EK1550ML		248	313	○
		EK354ML		250	316	☾
		EK354		256	316	☾
	<b>10 - 50</b>	EK5018		260	324	☾
		EK60UNV	+UA18	468	324	☾
		EKM60UNV	+UA18	467	324	☾
	<b>10 - 70</b>	EK6022		264	329	☾
		EKM6022		262	329	☾
		EK60UNV	+UA22	468	329	☾
		EKM60UNV	+UA22	467	329	☾
		<b>10 - 95</b>	EK12032		270	335
	EK12042			272	335	☾
	EK120U			274	335	☾
	EK135FT		+UA15T	276	335	☾
	EK120UNV		+UA12T	469	335	☾
<b>Hydraulic crimping systems</b>	<b>10 - 50</b>	THK18		294	324	☾
	<b>10 - 70</b>	THK22		296	329	☾
	<b>10 - 95</b>	THK120		300	335	☾
	<b>10 - 150</b>	HK252	+25A13	308	335 + 340	☾
<b>Hydraulic crimping heads</b>	<b>10 - 50</b>	PK18		294	324	☾
		PK60UNV	+UA18	466	324	☾
	<b>10 - 70</b>	PK22		296	329	☾
		PK60UNV	+UA22	466	329	☾
	<b>10 - 95</b>	PK12042		300	335	☾
		PK120U		302	335	☾
	<b>10 - 150</b>	PK252	+25A13	304	335 + 340	☾

