

## Consumable Items

End sleeves



Россия, 125438, г. Москва, Лихоборская наб., д. 9

Тел.: (495) 105-34-76 (многоканальный)

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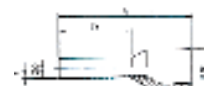
E-mail: [sale@thermocool.ru](mailto:sale@thermocool.ru)

WWW: [www.thermocool.ru](http://www.thermocool.ru)

## End sleeves DIN-series colour range III

insulated, copper-tinned, DIN 46228, part 4, colour range III, **DIN-series**

Art. No.	CS	Colour	d1	d3	l1	l2	s1	weight	PU
27 08 00	0,5	white	1,1	3,1	14	8	0,15	0,07	100
27 08 01	0,5	white	1,1	3,1	14	8	0,15	0,07	500
27 08 02	0,75	grey	1,25	3,3	14	8,2	0,15	0,08	500
27 08 03	0,75	grey	1,25	3,3	14	8,2	0,15	0,08	100
27 08 04	1	red	1,5	3,5	14,6	8,2	0,15	0,1	100
27 08 05	1	red	1,5	3,5	14,6	8,2	0,15	0,1	500
27 08 06	1	red	1,5	3,5	18	12	0,15	0,125	500
27 08 07	1,5	black	1,7	4,0	14,6	8,2	0,15	0,11	500
27 08 08	1,5	black	1,7	4,0	14,6	8,2	0,15	0,11	100
27 08 10	2,5	blue	2,3	4,9	15	8,2	0,15	0,15	100
27 08 11	2,5	blue	2,3	4,9	15	8,2	0,15	0,15	500
27 08 12	2,5	blue	2,3	4,9	16,5	10	0,15	0,15	500
27 08 13	2,5	blue	2,3	4,9	25	18	0,15	0,25	500
27 08 14	4	grey	2,9	5,6	17,7	10	0,2	0,2	100
27 08 15	4	grey	2,9	5,6	17,7	10	0,2	0,2	500
27 08 16	4	grey	2,9	5,6	25,7	18	0,2	0,32	100
27 08 18	6	yellow	3,6	7	20	12	0,2	0,35	100
27 08 20	6	yellow	3,6	7	26	18	0,2	0,46	100
27 08 22	10	red	4,6	8,4	21,5	12	0,2	0,45	100
27 08 24	10	red	4,6	8,4	27,5	18	0,2	0,65	100
27 08 26	16	blue	6,0	9,6	22,2	12	0,2	0,65	100
27 08 28	16	blue	6,0	9,6	28,2	18	0,2	0,8	100
27 08 30	25	yellow	7,3	12,0	30	16	0,2	1,6	50
27 08 32	25	yellow	7,3	12,0	32	18	0,2	1,7	50
27 08 34	25	yellow	7,3	12,0	36	22	0,2	2,0	50
27 08 36	35	red	8,3	13,5	30	16	0,2	1,9	50
27 08 38	35	red	8,3	13,5	32	18	0,2	2,1	50
27 08 40	35	red	8,3	13,5	39	25	0,2	2,5	50
27 08 42	50	blue	10,3	15	36	20	0,3	3,3	50
27 08 44	50	blue	10,3	15	40	25	0,3	3,6	50



## End sleeves colour range I

insulated, copper-tinned, size according DIN 46228, part 4, colour range I

Art. No.	CS	Colour	d1	d3	l1	l2	s1	weight	PU
27 00 14	0,25	yellow	0,8	2,3	10,4	6	0,15	0,045	100
27 00 15	0,25	yellow	0,8	2,3	10,4	6	0,15	0,05	500
27 00 16	0,34	green	0,8	2,5	12,4	6	0,15	0,045	500
27 08 00	0,5	white	1,1	3,1	14,0	8	0,15	0,07	100
27 08 01	0,5	white	1,1	3,1	14,0	8	0,15	0,08	500
27 00 21	0,7	blue	1,25	3,3	14,5	8,2	0,15	0,08	100
27 00 22	0,7	blue	1,25	3,3	14,5	8,2	0,15	0,095	500
27 08 04	1,0	red	1,5	3,5	14,6	8,2	0,15	0,085	100
27 08 05	1,0	red	1,5	3,5	14,6	8,2	0,15	0,1	500
27 08 08	1,5	black	1,7	4,0	14,6	8,2	0,15	0,1	100
27 00 27	1,5	black	1,7	4,0	24,4	18	0,15	0,22	100
27 00 28	1,5	black	1,7	4,0	24,4	18	0,15	0,22	500
27 00 29	2,5	grey	2,3	4,9	15,0	8	0,15	0,14	100
27 00 30	2,5	grey	2,3	4,9	15,0	18	0,15	0,28	500
27 00 31	2,5	grey	2,3	4,9	21,0	18	0,15	0,28	100
27 00 32	2,5	grey	2,3	4,9	21,0	18	0,15	0,28	500
27 00 33	4,0	orange	2,9	5,6	17,7	10	0,2	0,3	100
27 00 34	4,0	orange	2,9	5,6	17,7	10	0,2	0,39	500
27 00 36	4,0	orange	2,9	5,6	25,7	18	0,2	0,3	100
27 00 38	6,0	green	3,6	7,0	20,0	12	0,2	0,41	100
27 00 40	6,0	green	3,6	7,0	26,0	18	0,2	0,53	100
27 00 42	10,0	brown	4,6	8,4	21,5	12	0,2	0,55	100
27 00 44	10,0	brown	4,6	8,4	27,5	18	0,2	0,71	100
27 00 46	16,0	ivory	6,0	9,6	24,2	12	0,2	0,66	100
27 00 48	16,0	ivory	6,0	9,6	28,2	18	0,2	0,85	100
27 00 49	25,0	black	7,3	12,0	30,0	16	0,2	0,052	50
27 00 50	25,0	black	7,3	12,0	32,0	18	0,2	0,052	50



CS ..... cross section in mm<sup>2</sup>  
 IF ..... identification figure  
 height ..... in mm

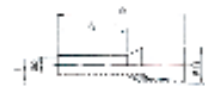
length ..... in mm  
 M ..... bolt M in mm  
 plug ..... flat plug

PU ..... packing unit in pieces  
 weight ..... in gr.  
 width ..... in mm

## End sleeves colour range II

insulated, copper-tinned, colour range II

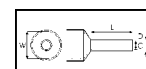
Art. No.	CS	Colour	d1	d3	l1	l2	s1	weight	PU
27 07 14	0,25	light blue	0,8	2,3	10,4	6,0	0,15	0,045	100
27 07 15	0,25	light blue	0,8	2,3	10,4	6,0	0,15	0,045	500
27 07 16	0,34	smaragd	0,8	2,5	10,4	6,0	0,15	0,045	500
27 07 19	0,5	orange	1,1	3,1	14,0	8,0	0,15	0,07	100
27 07 20	0,5	orange	1,1	3,1	14,0	8,0	0,15	0,07	500
27 07 21	0,75	white	1,25	3,3	14,6	8,2	0,15	0,08	100
27 07 22	0,75	white	1,25	3,3	14,6	8,2	0,15	0,08	500
27 07 23	1,0	yellow	1,5	3,5	14,6	8,2	0,15	0,1	100
27 07 24	1,0	yellow	1,5	3,5	14,6	8,2	0,15	0,1	500
27 07 25	1,5	red	1,7	4,0	14,6	8,2	0,15	0,11	100
27 07 26	1,5	red	1,7	4,0	14,6	8,2	0,15	0,19	500
27 07 27	1,5	red	1,7	4,0	24,4	18	0,15	0,21	100
27 07 28	1,5	red	1,7	4,0	24,4	18	0,15	0,1	500
27 08 10	2,5	blue	2,3	4,9	15,0	8,0	0,15	0,15	100
27 08 11	2,5	blue	2,3	4,9	15,0	8,0	0,15	0,25	500
27 08 13	2,5	blue	2,3	4,9	25,0	18	0,15	0,26	100
27 07 32	2,5	blue	2,3	4,9	25,0	18	0,15	0,1	500
27 08 14	4,0	grey	2,9	5,6	17,7	10	0,20	0,21	100
27 08 15	4,0	grey	2,9	5,6	17,7	18	0,20	0,32	500
27 08 16	4,0	grey	2,9	5,6	25,7	18	0,20	0,1	100
27 07 38	6,0	black	3,6	7,0	20,0	12	0,20	0,35	100
27 07 40	6,0	black	3,6	7,0	26,0	18	0,20	0,46	100
27 07 42	10,0	ivory	4,6	8,4	21,5	12	0,20	0,45	100
27 07 44	10,0	ivory	4,6	8,4	27,5	18	0,20	0,65	100
27 07 46	16,0	green	6,0	9,6	22,2	12	0,20	0,65	100
27 07 48	16,0	green	6,0	9,6	28,2	18	0,20	0,8	100
27 07 50	25,0	brown	7,3	11,2	29,0	16	0,20	1,6	50
27 07 54	35,0	beige	8,3	12,7	30,0	16	0,20	1,9	50
27 07 56	35,0	beige	8,3	12,7	39,0	25	0,20	2,1	50
27 07 58	50,0	olive	10,3	15,0	36,4	20	0,30	3,3	25
27 07 60	50,0	olive	10,3	15,0	41,0	25	0,30	3,6	25
27 07 62	70,0	yellow	13,5	17,2	37,0	21	0,40	0,1	25



## Wire-end sleeves for short-circuit proof lines

For short-circuit proof lines with very thick insulation (NSFGAFÖU), Applications: Feeding or branching in front of the main switch, in switchgears, distributors and also for rail vehicles, solar facilities, ignition cables.

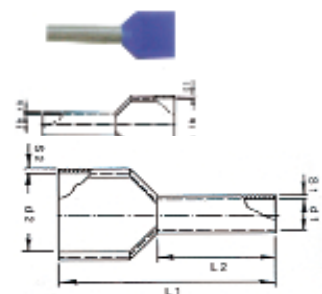
Art. No.	W	L	D	C	CS mm <sup>2</sup>	PU
27 09 00	6,8	8,0	2,1	1,8	1,5	100
27 09 02	6,8	10,0	2,1	1,8	1,5	100
27 09 04	7,8	8,0	2,6	2,3	2,5	100
27 09 06	7,8	12,0	2,6	2,3	2,5	100
27 09 08	7,8	10,0	3,3	2,9	4,0	100
27 09 10	8,3	12,0	4,2	3,8	6,0	100
27 09 12	9,8	12,0	4,9	4,5	10,0	100
27 09 14	12,2	12,0	6,4	6,0	16,0	100



## Twin-end sleeves for two wires

copper-tinned, tinned, insulated, permanent: max. 105° C

Art. No.	CS	Colour	l1	l2	d1	s1	d2	s2	weight	PU
27 07 78	0,5 x 2	white	15,0	8,0	1,5	0,15	2,5/4,7	0,25	12	100
27 07 80	0,75 x 2	grey	15,0	8,0	1,8	0,15	2,8/5,0	0,25	14	100
27 07 82	0,75 x 2	grey	17,0	10,0	1,8	0,15	2,8/5,0	0,25	15	100
27 07 84	1,0 x 2	red	15,0	8,0	2,05	0,15	3,4/5,4	0,30	17	100
27 07 87	1,0 x 2	red	17,0	10,0	2,05	0,15	3,4/5,4	0,30	18	100
27 07 88	1,5 x 2	black	16,0	8,0	2,3	0,15	3,6/6,6	0,30	20	100
27 07 90	1,5 x 2	black	20,0	12,0	2,3	0,15	3,6/6,6	0,30	24	100
27 07 92	2,5 x 2	blue	18,5	10,0	2,9	0,20	4,2/7,8	0,30	34	100
27 07 94	2,5 x 2	blue	21,5	13,0	2,9	0,20	4,2/7,8	0,30	34	100
27 07 96	4,0 x 2	grey	23	14,0	3,8	0,20	4,9/8,8	0,30	53	100
27 07 97	6,0 x 2	yellow	25	14,0	4,9	0,20	6,9/10,0	0,40	50	100
27 07 98	10,0 x 2	red	26	14,0	6,5	0,20	7,2/13,0	0,40	50	100
27 07 99	16,0 x 2	blue	31	16,0	8,3	0,20	9,6/18,4	0,40	100	100



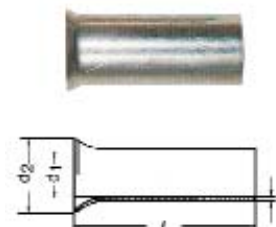
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## End sleeves

copper-tinned, DIN 46228, part 1

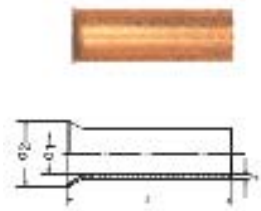
Art. No.	CS	d1	d2	L	s	weight	PU
27 00 66	0,25	0,75	1,7	5	0,15	0,020	1000
27 00 68	0,34	0,85	1,8	5	0,15	0,022	1000
27 00 70	0,5	1,0	2,1	6	0,15	0,032	1000
27 00 72	0,75	1,2	2,3	6	0,15	0,037	1000
27 00 74	0,75	1,2	2,3	12	0,15	0,061	1000
27 00 76	1,0	1,4	2,5	6	0,15	0,043	1000
27 00 78	1,0	1,4	2,5	10	0,15	0,069	1000
27 00 79	1,0	1,4	2,5	12	0,15	0,077	1000
27 00 80	1,5	1,7	2,8	7	0,15	0,063	1000
27 00 82	1,5	1,7	2,8	10	0,15	0,088	1000
27 00 84	1,5	1,7	2,8	12	0,15	0,104	1000
27 00 86	1,5	1,7	2,8	18	0,15	0,154	1000
27 00 87	1,5	1,7	2,8	20	0,15	0,170	1000
27 00 88	2,5	2,2	3,4	7	0,15	0,077	1000
27 00 89	2,5	2,2	3,4	10	0,15	0,110	1000
27 00 90	2,5	2,2	3,4	12	0,15	0,132	1000
27 00 91	2,5	2,2	3,4	15	0,15	0,165	1000
27 00 92	2,5	2,2	3,4	18	0,15	0,198	1000
27 00 93	2,5	2,2	3,4	20	0,15	0,220	1000
27 00 94	4	2,8	4	9	0,2	0,162	1000
27 00 96	4	2,8	4	12	0,2	0,214	1000
27 00 97	4	2,8	4	15	0,2	0,266	1000
27 00 98	4	2,8	4	18	0,2	0,266	1000
27 01 00	6	3,5	4,7	10	0,2	0,225	250
27 01 02	6	3,5	4,7	12	0,2	0,270	250
27 01 04	6	3,5	4,7	15	0,2	0,337	250
27 01 06	6	3,5	4,7	18	0,2	0,404	250
27 01 07	6	3,5	4,7	20	0,2	0,449	250
27 01 08	10	4,5	5,8	12	0,2	0,333	250
27 01 10	10	4,5	5,8	15	0,2	0,413	250
27 01 12	10	4,5	5,8	18	0,2	0,493	250
27 01 14	16	5,8	7,5	12	0,2	0,425	250
27 01 16	16	5,8	7,5	15	0,2	0,525	250
27 01 18	16	5,8	7,5	18	0,2	0,625	250
27 01 19	16	5,8	7,5	24	0,2	0,865	250
27 01 20	25	7,3	9,5	12	0,2	0,540	250
27 01 21	25	7,3	9,5	15	0,2	0,670	250
27 01 22	25	7,3	9,5	18	0,2	0,800	250
27 01 23	25	7,3	9,5	25	0,2	1,100	100
27 01 24	35	8,3	11	18	0,2	0,900	100
27 01 26	35	8,3	11	22	0,2	1,100	100
27 01 28	35	8,3	11	25	0,2	1,240	100
27 01 30	35	8,3	11	30	0,2	1,490	100
27 01 31	50	10,3	13	22	0,3	1,690	100
27 01 32	70	12,5	15	25	0,4	3,750	100
27 01 34	95	14,5	17	30	0,4	5,170	50
27 01 35	120	16,5	19	32	0,5	7,830	50
27 01 36	150	18,5	21	38	0,5	9,280	50
27 01 37	185	20	23,5	40	0,6	14,170	25



## End sleeves

copper bright, DIN 46228, part 1

Art. No.	CS	d1	d2	L	s	weight	PU
27 01 41	0,34	0,85	1,8	5	0,15	0,022	1000
27 01 40	0,5	1	2,1	6	0,15	0,032	1000
27 01 42	0,75	1,2	2,3	6	0,15	0,037	1000
27 01 43	0,75	1,2	2,3	10	0,15	0,040	1000
27 01 44	0,75	1,2	2,3	12	0,15	0,061	1000
27 01 46	1	1,4	2,5	6	0,15	0,043	1000
27 01 48	1	1,4	2,5	10	0,15	0,069	1000
27 01 49	1	1,4	2,5	12	0,15	0,077	1000
27 01 50	1,5	1,7	2,8	7	0,15	0,063	1000
27 01 52	1,5	1,7	2,8	10	0,15	0,088	1000
27 01 54	1,5	1,7	2,8	12	0,15	0,104	1000
27 01 56	1,5	1,7	2,8	18	0,15	0,154	1000
27 01 58	2,5	2,5	3,4	7	0,15	0,077	1000
27 01 59	2,5	2,5	3,4	10	0,15	0,110	1000
27 01 60	2,5	2,5	3,4	12	0,15	0,132	1000
27 01 64	4	2,8	4	9	0,2	0,162	1000
27 01 66	4	2,8	4	12	0,2	0,214	1000
27 01 68	4	2,8	4	18	0,2	0,318	1000
27 01 70	6	3,5	4,7	10	0,2	0,225	250
27 01 72	6	3,5	4,7	12	0,2	0,270	250
27 01 74	6	3,5	4,7	15	0,2	0,337	250
27 01 76	6	3,5	4,7	18	0,2	0,404	250
27 01 78	10	4,5	5,8	12	0,2	0,333	250
27 01 80	10	4,5	5,8	15	0,2	0,413	250
27 01 82	10	4,5	5,8	18	0,2	0,493	250
27 01 84	16	5,8	7,5	12	0,2	0,425	250
27 01 86	16	5,8	7,5	15	0,2	0,525	250
27 01 88	16	5,8	7,5	18	0,2	0,625	250
27 01 90	25	7,3	9,5	12	0,2	0,540	250
27 01 92	25	7,3	9,5	18	0,2	0,800	250
27 01 94	35	8,3	11	18	0,2	0,750	100
27 01 95	35	8,3	11	20	0,2	0,900	100
27 01 96	35	8,3	11	22	0,2	1,100	100
27 01 98	35	8,3	11	26	0,2	1,240	100



## Dispenser boxes with uninsulated end sleeves

Containing: end sleeves

700 pieces 0,5 mm<sup>2</sup>, Art. No. 27 00 70

1000 pieces 0,75 mm<sup>2</sup>, Art. No. 27 00 72

800 pieces 1,0 mm<sup>2</sup>, Art. No. 27 00 76

500 pieces 1,5 mm<sup>2</sup>, Art. No. 27 00 80

450 pieces 2,5 mm<sup>2</sup>, Art. No. 27 00 88



Art. No.	weight	PU
27 02 17	60	1

## Dispenser boxes with uninsulated end sleeves

Containing: end sleeves, tinned

225 pieces 4 mm<sup>2</sup>, Art. No. 27 00 94

70 pieces 6,0 mm<sup>2</sup>, Art. No. 27 01 02

50 pieces 10,0 mm<sup>2</sup>, Art. No. 27 01 08

50 pieces 16,0 mm<sup>2</sup>, Art. No. 27 01 14



Art. No.	weight	PU
27 02 18	60	1

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### Assortement box with Twin end sleeves

Contents:

50 pieces grey, 2 x 0,75 mm<sup>2</sup>, Art. No. 27 07 80  
 50 pieces red, 2 x 1,0 mm<sup>2</sup>, Art. No. 27 07 84  
 50 pieces black, 2 x 1,5 mm<sup>2</sup>, Art. No. 27 07 88  
 50 pieces blue, 2 x 2,5 mm<sup>2</sup>, Art. No. 27 07 92

Art. No.	weight	PU
27 07 95	50	1



### Dispenser boxes with insulated end sleeves

Contents: colour range I

50 pieces white, 0,5 mm<sup>2</sup>, Art. No. 27 08 00  
 100 pieces blue, 0,75 mm<sup>2</sup>, Art. No. 27 00 21  
 100 pieces red, 1,0 mm<sup>2</sup>, Art. No. 27 08 04  
 100 pieces black, 1,5 mm<sup>2</sup>, Art. No. 27 08 08  
 50 pieces grey, 2,5 mm<sup>2</sup>, Art. No. 27 00 29

Art. No.	weight	PU
27 08 50	50	1



### Dispenser boxes with insulated end sleeves

Contents: colour range II

50 pieces orange, 0,5 mm<sup>2</sup>, Art. No. 27 07 19  
 100 pieces white, 0,75 mm<sup>2</sup>, Art. No. 27 07 21  
 100 pieces yellow, 1,0 mm<sup>2</sup>, Art. No. 27 07 23  
 100 pieces red, 1,5 mm<sup>2</sup>, Art. No. 27 07 25  
 50 pieces blue, 2,5 mm<sup>2</sup>, Art. No. 27 08 10

Art. No.	weight	PU
27 08 52	50	1



### Dispenser boxes with insulated end sleeves

Contents: colour range III, **DIN-series**

50 pieces white, 0,5 mm<sup>2</sup>, Art. No. 27 08 00  
 100 pieces grey, 0,75 mm<sup>2</sup>, Art. No. 27 08 02  
 100 pieces red, 1,0 mm<sup>2</sup>, Art. No. 27 08 04  
 100 pieces black, 1,5 mm<sup>2</sup>, Art. No. 27 08 07  
 50 pieces blue, 2,5 mm<sup>2</sup>, Art. No. 27 08 10

Art. No.	weight	PU
27 08 54	50	1



### Dispenser boxes with insulated end sleeves

Contents: colour range II

50 pieces grey, 4 mm<sup>2</sup>, Art. No. 27 08 14  
 20 pieces black, 6 mm<sup>2</sup>, Art. No. 27 07 38  
 20 pieces ivory, 10 mm<sup>2</sup>, Art. No. 27 07 42  
 10 pieces green, 16 mm<sup>2</sup>, Art. No. 27 07 46

Art. No.	weight	PU
27 08 56	50	1



### Dispenser boxes with insulated end sleeves DIN-Serie

Contents: colour range III, DIN

50 pieces grey, 4 mm<sup>2</sup>, Art. No. 27 08 15  
 20 pieces yellow, 6 mm<sup>2</sup>, Art. No. 27 08 18  
 20 pieces red, 10 mm<sup>2</sup>, Art. No. 27 08 22  
 10 pieces blue, 16 mm<sup>2</sup>, Art. No. 27 08 26

Art. No.	weight	PU
27 08 58	150	1



CS . . . . . cross section in mm <sup>2</sup>	length . . . . . in mm	PU . . . . . packing unit in pieces
IF . . . . . identification figure	M . . . . . bolt M in mm	weight . . . . . in gr.
height . . . . . in mm	plug . . . . . flat plug	width . . . . . in mm



## Dispenser boxes

without contents



Art. No.	mm²	weight	PU
27 08 70	0,5 - 2,5	100	1/4

## End sleeve assortment

insulated end sleeves, colour range I

Containing:

500 Super-end sleeves 8 mm x 0,5 mm², Art. No. 27 08 01

500 Super-end sleeves 8 mm x 1 mm², Art. No. 27 08 05

500 Super-end sleeves 8 mm x 1,5 mm², Art. No. 27 08 07

500 Super-end sleeves 8 mm x 2,5 mm², Art. No. 27 00 30

1 crimping pliers (Art. 21 08 20), crimping range 0,5 - 2,5 mm²

metal box 250 x 170 x 46 mm



Art. No.	weight	PU
27 08 78	1300	1



## End sleeve assortment

insulated end sleeves, colour range I

Containing:

200 Super-end sleeves 8 mm x 0,75 mm², Art. 27 00 21

200 Super-end sleeves 8 mm x 1,0 mm², Art. 27 08 04

200 Super-end sleeves 8 mm x 1,5 mm², Art. 27 08 08

200 Super-end sleeves 8 mm x 2,5 mm², Art. 27 00 29

100 Super-end sleeves 10 mm x 4,0 mm², Art. 27 00 33

100 Super-end sleeves 12 mm x 6,0 mm², Art. 27 00 38

100 Super-end sleeves 18 mm x 10,0 mm², Art. 27 00 44

50 Super-end sleeves 18 mm x 16,0 mm², Art. 27 00 48

1 crimping pliers (Art. 21 08 24), crimping range 0,75 - 16,0 mm²

metal box 370 x 160 x 40 mm



Art. No.	weight	PU
27 08 82	1800	1

## End sleeve assortment

insulated end sleeves, colour range III, DIN-series

Containing:

300 Super-end sleeves 8 mm x 0,75 mm², Art. 27 08 03

300 Super-end sleeves 8 mm x 1,0 mm², Art. 27 08 04

300 Super-end sleeves 8 mm x 1,5 mm², Art. 27 08 08

300 Super-end sleeves 8 mm x 2,5 mm², Art. 27 08 10

300 Super-end sleeves 10 mm x 4,0 mm², Art. 27 08 14

1 crimping pliers (Art. 21 07 63), crimping range 0,5 - 4,0 mm²

metal box 370 x 160 x 40 mm



Art. No.	weight	PU
27 08 84	2100	1

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## End sleeves assortment

Containing: end sleeves, bright  
 1000 end sleeves 6 mm x 0,75 mm<sup>2</sup>, Art. No. 27 00 72  
 1000 end sleeves 6 mm x 1,0 mm<sup>2</sup>, Art. No. 27 00 76  
 1000 end sleeves 7 mm x 1,5 mm<sup>2</sup>, Art. No. 27 00 80  
 500 end sleeves 7 mm x 2,5 mm<sup>2</sup>, Art. No. 27 00 88  
 500 end sleeves 9 mm x 4,0 mm<sup>2</sup>, Art. No. 27 00 94  
 500 end sleeves 10 mm x 6,0 mm<sup>2</sup>, Art. No. 27 01 00  
 1 crimping pliers (Art. 21 07 63), crimping range 0,5 - 4,0 mm<sup>2</sup>  
 metal box 250 x 170 x 40 mm



Art. No.	weight	PU
27 00 41	1300	1

## End sleeves assortment

Containing: end sleeves, bright  
 1000 end sleeves 6 mm x 0,75 mm<sup>2</sup>, Art. No. 27 00 72  
 1000 end sleeves 6 mm x 1 mm<sup>2</sup>, Art. No. 27 00 76  
 1000 end sleeves 7,5 mm x 1,5 mm<sup>2</sup>, Art. No. 27 00 80  
 1000 end sleeves 7 mm x 2,5 mm<sup>2</sup>, Art. No. 27 00 88  
 1 crimping pliers (Art. 21 08 20), crimping range 0,5 - 2,5 mm<sup>2</sup>  
 metal box 250 x 170 x 40 mm



Art. No.	weight	PU
27 00 37	1000	1

## End sleeves assortment

Containing: end sleeves, bright  
 1000 end sleeves 6 mm x 0,75 mm<sup>2</sup>, Art. No. 27 00 72  
 1000 end sleeves 6 mm x 1,0 mm<sup>2</sup>, Art. No. 27 00 76  
 1000 end sleeves 7 mm x 1,5 mm<sup>2</sup>, Art. No. 27 00 80  
 500 end sleeves 7 mm x 2,5 mm<sup>2</sup>, Art. No. 27 00 88  
 500 end sleeves 9 mm x 4,0 mm<sup>2</sup>, Art. No. 27 00 94  
 500 end sleeves 10 mm x 6,0 mm<sup>2</sup>, Art. No. 27 01 00  
 250 end sleeves 18 mm x 10,0 mm<sup>2</sup>, Art. No. 27 01 12  
 250 end sleeves 18 mm x 16,0 mm<sup>2</sup>, Art. No. 27 01 18  
 1 crimping pliers (Art. 21 08 24), crimping range 0,75 - 16,0 mm<sup>2</sup>  
 metal box 370 x 160 x 40 mm



Art. No.	weight	PU
27 00 39	1400	1

## Pliers for - End sleeves, bright and insulated

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,08 - 6	21 08 00			22
0,08 - 6/10	21 08 19			22
0,14 - 2,5	21 16 50			22
0,14 - 6	21 09 79			22
0,25 - 6	21 08 41			22
0,5 - 4	21 07 63			22
0,5 - 10	21 09 79 A			22
0,75 - 10	21 08 04			22
4,0 - 10	21 08 42			22
6,0 - 16	21 07 65			22
	21 16 52			22
10,0 - 16	21 09 79 B			22
6,0 - 50		21 50 00		34
6,0 - 95		21 51 00		36
10,0 - 25	21 16 72			22

## Pliers for - End sleeves, bright and insulated

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
10,0 - 35,0	21 07 68			22
10,0 - 50,0	21 07 88			23
10,0 - 95,0		21 08 56		32
16,0 - 95,0			21 55 86	44
			21 58 00	46
16,0 - 185,0		21 52 00		38
25,0 - 50	21 16 74			22
50,0 - 95,0			21 07 89	23
50,0 - 150,0			21 66 00	48
			21 65 00	50

CS ..... cross section in mm<sup>2</sup>  
 IF ..... identification figure  
 height ..... in mm

length ..... in mm  
 M ..... bolt M in mm  
 plug ..... flat plug

PU ..... packing unit in pieces  
 weight ..... in gr.  
 width ..... in mm



## Consumable items

Insulated crimping terminals



## The Quality

The elimination of every need to weld complicated operations to effect an electrical connection, the high productivity in cable termination, the low contact resistance as well as the high connection reliability are only some of the multiple advantages guaranteed by the HAUPA crimping systems.

## Variety

The wide and complete range of crimping terminals satisfies the most different connection requirements with the widest application field even referring to the hardest and least favourable conditions of operation.

## Materials

The high conductivity and the top mechanical characteristics are guaranteed by the purity (up to 99,9%) of the copper utilized for the production of crimping terminals.

## Hot treatment

In order to ensure the maximum malleability of materials during the crimping operations all copper terminals undergo a hot treatment with forced ventilation and controlled temperature.

## Surface treatment

The crimping terminals are treated with processes of electrolytic tin plating. This method guarantees the maximum adhesion of tin to the crimping terminal surface in order to reduce the electrical resistance to a minimum and to maximize the protection against corrosion.

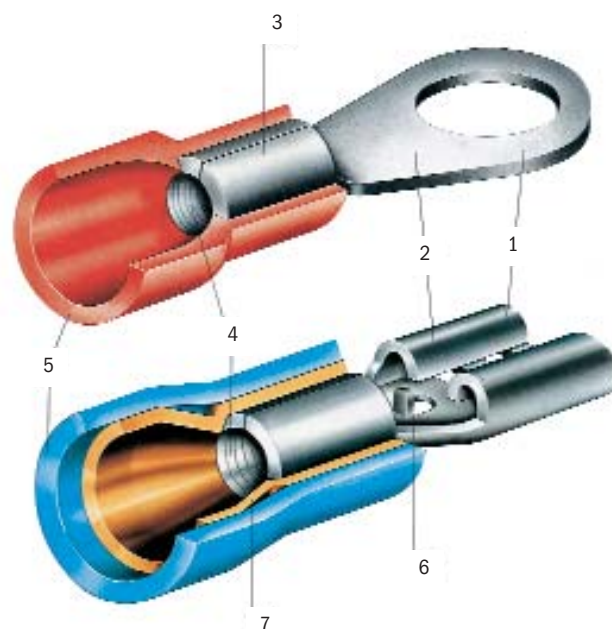
## Insulation

The standard models are available with insulation in special self-extinguishing PVC or in Nylon and in colours according to International Standards. The high quality of the insulation materials employed for all crimping terminals ensure a high degree of resistance to the mechanical solicitations that they must undergo during the crimping operations without alteration of their insulation characteristics.

## PVC insulated crimping terminals Easy Entry

1. Sleeves, made of purest copper
2. Treated with processes of electrolytic tin plating
3. Hot treatment
4. Internal serration for the best most electric contact
5. Insulation Easy Entry sleeve
6. Cable stop
7. Copper sleeve Easy Entry: for quick wire insertions with no strand turn-back and a strong mechanical retention.

## funnel shaped insulating sleeve



Underwriters Laboratories Inc.  
Listed File E 96029, E 128651, E 131576

## Ring type DIN 46237

PVC-insulated with extended insulating sleeve, suitable for harmonized cable - **Easy Entry**

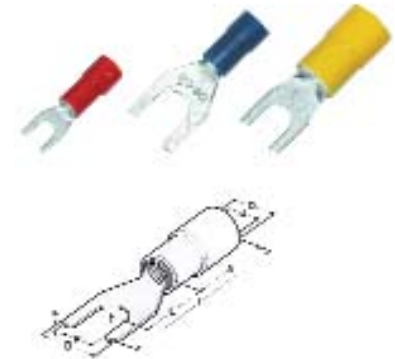
Art. No.	CS	M	F	B	A	E	L	d	D	s	weight	PU
26 02 50	0,25 - 1,5	2,5	2,60	8	10,4	8,60	22,2	1,95	4,20	0,8	60	100/500
26 02 51		3	3,15	8	10,4	8,60	22,2	1,95	4,20	0,8	60	100/500
26 02 52		3	3,20	5,5	10,4	4,40	15,4	1,95	4,20	0,8	55	100/500
26 02 54		3,5	3,60	8	10,4	7,80	22,2	1,95	4,20	0,8	55	100/500
26 02 56		4	4,20	8	10,4	7,50	22,0	1,95	4,20	0,8	70	100/500
26 02 58		5	5,20	8	10,4	8,00	22,4	1,95	4,20	0,8	90	100/500
26 02 60		6	6,20	10	10,4	8,60	23,7	1,95	4,20	0,8	80	100/500
26 02 62		8	8,30	14	10,4	12,60	30,0	1,95	4,20	0,8	130	100/500
26 02 64		10	10,40	14	10,4	12,80	30,0	1,95	4,20	0,8	130	100/500
26 02 65	1,5 - 2,5	2,5	2,60	8	11,0	8,00	23,3	2,45	4,80	0,8	60	100/500
26 02 66		3	3,20	8	11,0	8,00	23,0	2,45	4,80	0,8	65	100/500
26 02 67		3	3,20	6,4	11,0	4,30	18,5	2,45	4,80	0,8	65	100/500
26 02 68		3,5	3,70	8	11,0	8,00	23,0	2,45	4,80	0,8	65	100/500
26 02 70		4	4,20	8	11,0	8,00	23,0	2,45	4,80	0,8	80	100/500
26 02 72		5	5,20	10	11,0	9,80	26,0	2,45	4,80	0,8	90	100/500
26 02 74		6	6,20	11	11,0	11,70	28,0	2,45	4,80	0,8	110	100/500
26 02 76		8	8,20	15	11,0	14,50	33,0	2,45	4,80	0,8	130	100/500
26 02 78		10	10,50	15	11,0	14,50	33,0	2,45	4,80	0,8	160	100/500
26 02 82	2,5 - 6,0	3,5	3,70	8	14,0	8,40	26,5	3,50	6,60	1	50	100/500
26 02 84		4	4,20	8	14,0	8,40	26,5	3,50	6,60	1	50	100/500
26 02 86		5	5,20	10	14,0	10,20	29,6	3,50	6,60	1	50	100/500
26 02 88		6	6,20	11	14,0	11,00	30,6	3,50	6,60	1	100	100/500
26 02 90		8	8,20	15	14,0	15,30	37,0	3,50	6,60	1	100	100/500
26 02 92		10	10,50	19	14,0	16,50	40,0	3,50	6,60	1	110	100/500



## Fork type DIN 46237

PVC-insulated with extended insulating sleeve, suitable for harmonized cable - **Easy Entry**

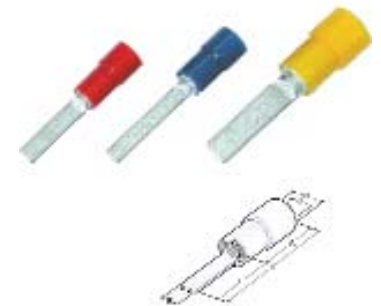
Art. No.	CS	M	F	B	A	E	L	d	D	s	weight	PU
26 02 99	0,25 - 1,5	2,5	2,60	5,6	10,4	6,70	20,0	1,95	4,20	0,8	60	100/500
26 03 00		3	3,20	5,6	10,4	6,70	20,0	1,95	4,20	0,8	60	100/500
26 03 02		3,5	3,70	6,5	10,4	6,50	19,4	1,95	4,20	0,8	60	100/500
26 03 04		4	4,20	6,4	10,4	6,30	20,9	1,95	4,20	0,8	70	100/500
26 03 06		5	5,20	8,0	10,4	8,00	21,2	1,95	4,20	0,8	90	100/500
26 03 08		6	6,20	9,2	10,4	8,30	22,4	1,95	4,20	0,8	95	100/500
26 03 09	1,5 - 2,5	2,5	2,60	5,6	11,0	8,40	23,0	2,45	4,80	0,8	60	100/500
26 03 10		3	3,20	5,6	11,0	8,40	23,0	2,45	4,80	0,8	65	100/500
26 03 12		3,5	3,70	6,6	11,0	5,30	20,3	2,45	4,80	0,8	63	100/500
26 03 14		4	4,20	6,6	11,0	5,30	20,3	2,45	4,80	0,8	80	100/500
26 03 16		5	5,20	9,1	11,0	9,50	25,0	2,45	4,80	0,8	90	100/500
26 03 18		6	6,30	10,0	11,0	11,20	27,0	2,45	4,80	0,8	110	100/500
26 03 21	2,5 - 6,0	3,5	3,70	8,1	14,0	7,20	26,0	3,50	6,60	1	140	100/500
26 03 20		4	4,20	8,1	14,0	7,20	26,0	3,50	6,60	1	140	100/500
26 03 22		5	5,20	9,0	14,0	10,50	28,5	3,50	6,60	1	160	100/500
26 03 24		6	6,30	11,0	14,0	11,00	29,5	3,50	6,60	1	170	100/500
26 03 26		8	8,20	15,2	14,0	15,00	35,2	3,50	6,60	1	230	100/500
26 03 28		10	10,50	19,0	14,0	16,60	38,0	3,50	6,60	1	300	100/500



## Blade pin DIN 46231

copper tinned, PVC-insulated with extended insulating sleeve, suitable for harmonized cable

Art. No.	CS	B	A	E	L	d	D	weight	PU
26 03 30	0,25 - 1,5	2,8	10,4	9,0	19,4	1,7	4,20	100	100/500
26 03 31		3,0	10,4	14,5	24,9	1,7	4,20	100	100/500
26 03 32	1,5 - 2,5	2,8	10,4	9,0	19,4	2,3	4,80	100	100/500
26 03 33		2,8	10,4	16,0	26,4	2,3	4,80	100	100/500
26 03 34	2,5 - 6,0	2,8	13,5	10,0	23,5	3,4	6,80	100	100/500
26 03 35		4,5	13,5	18,2	31,7	3,4	6,80	100	100/500



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## Rapid connectors

copper tinned, PVC-insulated, polypropylen

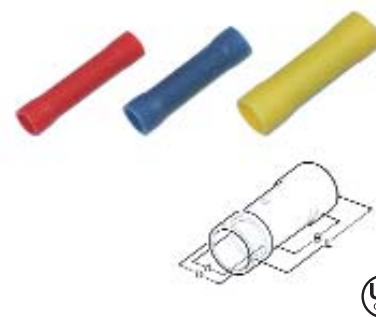
Art. No.	CS	A	L	weight	PU
26 03 36	0,25 - 1,5	13,5	20,0	100	100/500
26 05 00		17,0	20,0	100	100/500
26 03 37	1,25 - 2,5	13,5	20,5	100	100/500
26 05 02		17,0	10,0	100	100/500
26 03 38	2,5 - 6,0	17,0	10,0	100	100/500
26 05 04		17,0	10,0	100	100/500



## Butt connectors

copper tinned, PVC-insulated

Art. No.	CS	B	L	d	D	weight	PU
26 03 50	0,25 - 1,5	15	22,7	1,7	4,0	90	100/500
26 03 52	1,25 - 2,5	15	22,7	2,3	4,5	115	100/500
26 03 54	2,5 - 6,0	15	26,7	3,4	6,8	230	100/500



## Parallel connectors

copper tinned, PVC-insulated

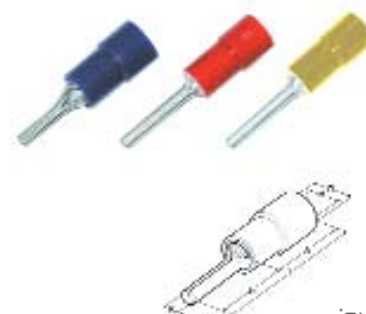
Art. No.	CS	B	A	L	D	weight	PU
26 03 60	0,25 - 1,5	8,0	16,0	1,7	4,0	30	100/500
26 03 62	1,25 - 2,5	8,0	16,0	2,3	4,5	35	100/500
26 03 64	2,5 - 6,0	8,0	20,5	3,4	6,8	105	100/500



## Round pin

copper tinned, PVC-insulated with extended insulating sleeve, suitable for harmonized cable

Art. No.	CS	B	E	A	L	d	D	weight	PU
26 03 70	0,25 - 1,5	1,8	12	10,4	22,4	1,95	4,20	100	100/500
26 03 71		1,8	9	10,4	20,0	1,95	4,20	100	100/500
26 03 72	1,5 - 2,5	1,8	12	11,0	23,0	2,45	4,80	100	100/500
26 03 73		1,8	9	11,0	20,0	2,45	4,80	100	100/500
26 03 74	2,5 - 6,0	2,6	14	14,0	28,0	3,50	6,60	100	100/500
26 03 76	10,0	4,0	15	21,5	38,0	4,50	8,30	100	100/500



CS ..... cross section in mm<sup>2</sup>  
 IF ..... identification figure  
 height ..... in mm

length ..... in mm  
 M ..... bolt M in mm  
 plug ..... flat plug

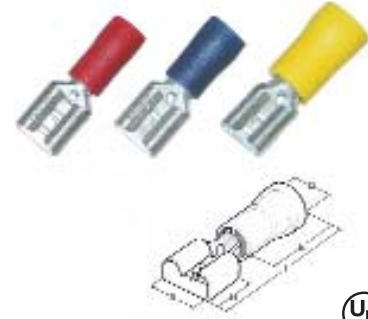
PU ..... packing unit in pieces  
 weight ..... in gr.  
 width ..... in mm

## Socket sleeve (female)

brass tinned, PVC-insulated, with antivibration copper sleeve

\* Easy Entry

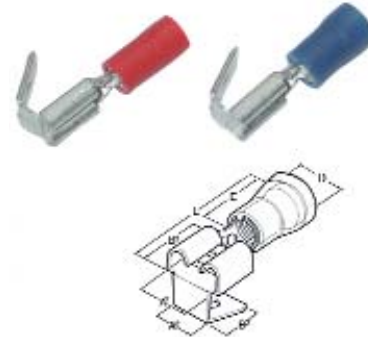
Art. No.	CS	plug	A	B	E	L	D	weight	PU
26 03 80*	0,25 - 1,5	2,8 x 0,5	3,2	6,4	9,5	17,9	3,5	100	100/500
26 03 82*		2,8 x 0,8	3,2	6,4	9,5	17,9	3,5	100	100/500
26 03 84*		4,8 x 0,5	5,0	6,0	9,5	18,7	3,5	100	100/500
26 03 86*		4,8 x 0,8	5,0	6,0	9,5	18,7	3,5	100	100/500
26 04 00		5,2 x 0,8	5,5	6,4	9,5	18,7	3,5	100	100/500
26 03 92*	1,5 - 2,5	6,3 x 0,8	6,6	7,8	9,5	20,5	3,5	100	100/500
26 03 88*		4,8 x 0,5	5,0	6,0	9,5	18,7	4,3	100	100/500
26 03 90*		4,8 x 0,8	5,0	6,0	9,5	18,7	4,3	100	100/500
26 04 02		5,2 x 0,8	5,5	6,4	9,5	18,7	4,3	100	100/500
26 03 94*		6,3 x 0,8	6,6	7,8	9,5	20,5	4,3	100	100/500
26 03 96	2,5 - 6,0	6,3 x 0,8	6,6	7,8	13,5	24,5	6,2	100	100/500
26 04 04		9,8 x 1,1	10,0	12,0	13,5	29,2	6,2	100	100/500



## Socket sleeve (female) with piggy back

brass tinned, PVC-insulated, with antivibration copper sleeve

Art. No.	CS	plug	A1	A2	B1	B2	E	L	D	weight	PU
26 04 10	0,25 - 1,5	6,3 x 0,8	6,6	6,3	7,8	8	9,5	22,2	3,5	110	100/500
26 04 12	1,5 - 2,5	6,3 x 0,8	6,8	6,3	7,8	8	9,5	22,2	4,3	110	100/500



## Socket sleeve (female), totally insulated

\* Easy Entry

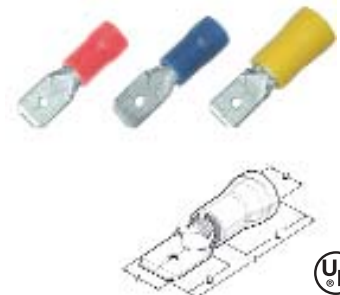
Art. No.	CS	plug	A	B	E	L	D	weight	PU
26 04 15*	0,25 - 1,5	4,8 x 0,8	5,0	6,0	11	20	2,7	100	100/500
26 04 14*		6,3 x 0,8	6,6	6,8	11	22	2,7	100	100/500
26 04 17*	1,5 - 2,5	4,8 x 0,8	5,0	6,0	11	20	3,2	100	100/500
26 04 16*		6,3 x 0,8	6,6	6,8	11	22	3,2	100	100/500
26 04 18	2,5 - 6,0	6,3 x 0,8	6,6	6,8	14	25	3,8	100	100/500



## Socket sleeve (male)

Easy Entry

Art. No.	CS	A	B	E	L	D	weight	PU
26 05 10	0,25 - 1,5	2,8 x 0,5	6,5	10,5	19,2	3,8	100	100/500
26 05 12		2,8 x 0,8	6,5	10,5	19,2	3,8	100	100/500
26 05 14		4,8 x 0,5	6,5	10,5	19,2	3,8	100	100/500
26 05 16		4,8 x 0,8	6,7	10,5	19,2	3,8	100	100/500
26 04 22		6,3 x 0,8	7,7	10,0	20,5	3,5	100	100/500
26 05 18	1,5 - 2,5	4,8 x 0,5	6,5	10,5	19,2	3,8	100	100/500
26 05 20		4,8 x 0,8	6,7	10,5	19,2	3,8	100	100/500
26 04 24		6,3 x 0,8	7,7	10,0	20,5	4,0	100	100/500
26 04 26	2,5 - 6,0	6,3 x 0,8	7,7	13,5	24,5	5,5	100	100/500



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## End connectors, nylon-insulated

copper tinned, nylon-insulated

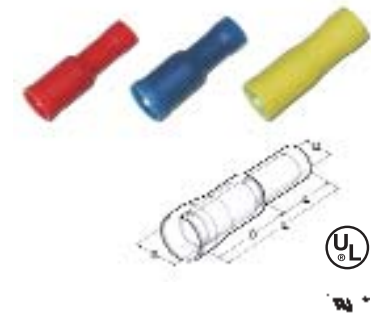
Art. No.	CS	B	F	L	d	D	weight	PU
26 04 27	0,25 - 1,5	5,0	8,0	15,2	2,2	6,2	100	100/500
26 04 28	1,5 - 2,5	5,9	8,0	15,2	2,5	6,5	100	100/500
26 04 30	2,5 - 6,0	7,3	8,5	17,8	3,5	9,4	100	100/500
26 04 31	6,0 - 10,0	9,3	9,5	22,2	4,6	12,0	100	100/500



## Sockets (female)

brass tinned, PVC-insulated, with antivibration copper sleeve

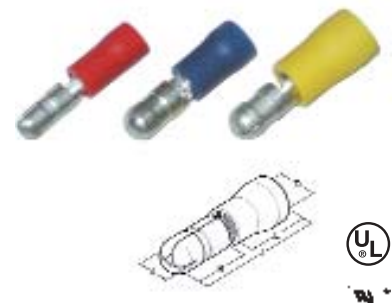
Art. No.	CS	A	B	E	L	D	weight	PU
26 04 40*	0,25 - 1,5	4	8,7	9,5	20,2	3,5	60	100/500
26 04 42*	1,5 - 2,5	5	8,7	9,5	20,7	4,3	120	100/500
26 04 43*		4	8,7	9,5	20,2	4,3	130	100/500
26 04 44	2,5 - 6,0	5	12,0	13,0	25,0	6,5	130	100/500



## Bullet

\* Easy Entry

Art. No.	CS	A	B	E	L	D	weight	PU
26 04 46*	0,25 - 1,5	4	8,7	9,5	20,2	3,5	100	100/500
26 04 48*	1,5 - 2,5	5	8,7	9,5	20,7	4,3	100	100/500
26 04 49*		4	8,7	9,5	20,2	4,3	100	100/500
26 04 50	2,5 - 6,0	5	10,0	13,5	25,0	6,5	110	100/500



## Ring type, nylon-insulated

copper tinned, nylon-insulated, 105°

Art. No.	CS	M	F	B	A	E	L	d	D	s	weight	PU
26 06 51	0,25 - 1,5	3,0	3,2	8,0	10,4	8,6	22,2	1,95	4,2	0,8	20	100/500
26 06 54		3,5	3,6	8,0	10,4	7,8	22,2	1,95	4,2	0,8	20	100/500
26 06 56		4,0	4,2	8,0	10,4	7,5	22,0	1,95	4,2	0,8	20	100/500
26 06 58		5,0	5,2	8,0	10,4	8,0	22,4	1,95	4,2	0,8	25	100/500
26 06 60		6,0	6,2	10,0	10,4	8,6	23,7	1,95	4,2	0,8	25	100/500
26 06 62		8,0	8,3	14,0	10,4	12,6	30,0	1,95	4,2	0,8	25	100/500
26 06 64		10,0	10,4	14,0	10,4	12,8	30,0	1,95	4,2	0,8	25	100/500
26 06 66	1,5 - 2,5	3,0	3,2	8,0	11,0	8,0	23,0	2,45	4,8	0,8	60	100/500
26 06 67		3,5	3,7	8,0	11,0	8,0	23,0	2,45	4,8	0,8	60	100/500
26 06 70		4,0	4,2	8,0	11,0	8,0	23,0	2,45	4,8	0,8	55	100/500
26 06 72		5,0	5,2	10,0	11,0	9,8	26,0	2,45	4,8	0,8	70	100/500
26 06 74		6,0	6,2	11,0	11,0	11,7	28,0	2,45	4,8	0,8	90	100/500
26 06 76		8,0	8,2	15,0	11,0	14,5	33,0	2,45	4,8	0,8	80	100/500
26 06 78		10,0	10,5	15,0	11,0	14,5	33,0	2,45	4,8	0,8	130	100/500
26 06 84	2,5 - 6,0	4,0	4,2	8,0	14,0	8,4	26,5	3,50	6,6	1,0	80	100/500
26 06 86		5,0	5,2	10,0	14,0	10,2	29,6	3,50	6,6	1,0	80	100/500
26 06 88		6,0	6,2	11,0	14,0	11,0	30,6	3,50	6,6	1,0	80	100/500
26 06 90		8,0	8,2	15,0	14,0	15,3	37,0	3,50	6,6	1,0	90	100/500
26 06 92		10,0	10,5	19,0	14,0	16,5	40,0	3,50	6,6	1,0	110	100/500





## Round pin, nylon-insulated

copper tinned, nylon-insulated, 105°

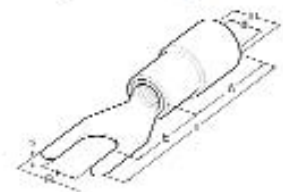
Art. No.	CS	B	E	A	L	d	D	weight	PU
26 07 70	0,25 - 1,5	1,9	12	10,4	22	1,95	4,2	60	100/500
26 07 72	1,5 - 2,5	1,9	12	11,0	23	2,45	4,8	65	100/500
26 07 74	2,5 - 6,0	2,7	14	14,0	28	3,60	6,6	160	100/500



## Fork type, nylon-insulated

copper tinned, nylon-insulated, 105°

Art. No.	CS	M	F	B	A	E	L	d	D	s	weight	PU
26 07 00	0,25 - 1,5	3,0	3,2	5,6	10,4	6,7	20,0	1,95	4,2	0,8	300	100/500
26 07 02		3,5	3,7	6,5	10,4	6,5	19,4	1,95	4,2	0,8	300	100/500
26 07 04		4,0	4,2	6,4	10,4	6,3	20,9	1,95	4,2	0,8	350	100/500
26 07 06		5,0	5,2	8,0	10,4	8,0	21,2	1,95	4,2	0,8	450	100/500
26 07 08		6,0	6,2	9,2	10,4	8,3	22,4	1,95	4,2	0,8	400	100/500
26 07 10	1,5 - 2,5	3,0	3,2	5,6	11,0	8,4	23,0	2,45	4,8	0,8	325	100/500
26 07 14		4,0	4,2	6,6	11,0	5,3	20,3	2,45	4,8	0,8	325	100/500
26 07 16		5,0	5,2	9,1	11,0	9,5	25,0	2,45	4,8	0,8	400	100/500
26 07 18		6,0	6,3	10,0	11,0	11,2	27,0	2,45	4,8	0,8	450	100/500
26 07 20	2,5 - 6,0	3,5	3,7	8,1	14,0	7,2	26,0	3,50	6,6	1,0	550	100/500
26 07 21		4,0	4,2	8,1	14,0	7,2	26,0	3,50	6,6	1,0	550	100/500
26 07 22		5,0	5,2	9,0	14,0	10,5	28,5	3,50	6,6	1,0	800	100/500
26 07 24		6,0	6,3	11,0	14,0	11,0	29,5	3,50	6,6	1,0	850	100/500



## Butt connectors, nylon-insulated

copper tinned, nylon-insulated, 105°

Art. No.	CS	B	L	d	D	weight	PU
26 07 50	0,25 - 1,5	15	22,7	1,7	4,0	900	100/500
26 07 52	1,5 - 2,5	15	22,7	2,3	4,5	1150	100/500
26 07 54	2,5 - 6,0	15	26,7	3,4	6,8	2300	100/500



## Empty boxes

made of sheet metal, painted, without contents

Art. No.	length	width	height	compart.	weight	PU
22 00 90	366	230	51	20	2400	1
22 00 91	350	170	46	5	2200	1
22 00 92	370	160	40	9	2300	1
22 00 93	400	250	50	13	2500	1



22 00 91



22 00 92



22 00 93



22 00 90

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## Assortements insulated terminals

Containing: 1.050 terminals  
 700 insulated terminals ring type in gängigen Größen  
 150 insulated terminals fork type in gängigen Größen  
 150 insulated terminals round pin in gängigen Größen  
 50 socket sleeves insulated (female) in gängigen Größen  
 1 crimping pliers (Art. 21 07 61), crimping range 0,25 - 6 mm²

Art. No.	weight	PU
26 07 62	3500	1



## Assortements insulated terminals

Containing: 800 terminals  
 Terminals ring type: 100 pieces: Art. No. 26 02 52/26 02 56/26 02 58/26 02 70/26 02 72  
 50 pieces: Art. No. 26 02 74/26 02 84/26 02 86/26 02 88  
 Terminals fork type: 100 pieces: Art. No. 26 03 00/26 03 04  
 50 pieces: Art. No. 26 03 16/26 03 18  
 1 crimping pliers (Art. 21 08 02), crimping range 1,5 - 6 mm²

Art. No.	weight	PU
26 07 60	3500	1



## Assortements insulated terminals

Containing: 1.250 terminals  
 Terminals ring type: 100 pieces: Art. No. 26 02 52/26 02 56/26 02 58/26 02 70/26 02 72/26 02 86  
 50 pieces: Art. No. 26 02 74/26 02 88  
 50 insulated female Art. No. 26 04 24  
 50 butt connectors Art. No. 26 03 50/26 03 52/26 03 54  
 50 terminals fork type Art. No. 26 03 04/26 03 14/26 03 22  
 50 terminals round pin Art. No. 26 03 70/26 03 72/26 03 74  
 50 female 26 03 94  
 1 crimping pliers (Art. 21 08 02), crimping range 1,5 - 6 mm²

Art. No.	weight	PU
26 07 64	3700	1
26 20 48	3400	1



CS . . . . . cross section in mm²	length . . . . . in mm	PU . . . . . packing unit in pieces
IF . . . . . identification figure	M . . . . . bolt M in mm	weight . . . . . in gr.
height . . . . . in mm	plug . . . . . flat plug	width . . . . . in mm

## Insulated crimping terminals DIN

nylon, acc. DIN 46237

Art. No.	CS	M	Colour	weight	PU
26 08 58	10	5	red	750	50
26 08 60		6	red	800	50
26 08 62	16	5	blue	850	50
26 08 63		8	blue	900	50



## Insulated crimping terminals DIN

nylon, acc. DIN 46237

Art. No.	CS	M	d1	d2	d4	a	l	KG/100 pc.	PU
260902	10	5	4,5	5,3	8	16,5	24,5	0,250	100
260904		6		6,5			25,5	0,280	100
260906		8		8,4			28,5	0,330	100
260908		10		10,5			29,5	0,380	100
260910		12		13,0			31,5	0,460	100
260912	16	5	5,8	5,3	11	21,5	31,5	0,400	100
260914		6		6,5			31,5	0,400	100
260916		8		8,4			33,5	0,480	100
260918		10		10,5			35,5	0,500	100
260920		12		13,0			37,5	0,630	100
260922	25	5	7,5	5,3	13	24	38	0,800	100
260924		6		6,5			38	0,780	100
260926		8		8,4			38	0,850	100
260928		10		10,5			39	0,900	100
260930		12		13,0			44	1,100	100
260932		16		17,0			48	1,350	100
260934	35	6	9	6,5	14,5	27	41	1,150	100
260936		8		8,4			41	1,120	100
260938		10		10,5			42	1,120	100
260940		12		13,0			46	1,360	100
260942		16		17,0			51	1,680	100
260944	50	6	11	6,5	16,5	29,5	47,5	2,000	100
260946		8		8,4			47,5	1,990	100
260948		10		10,5			47,5	1,850	100
260950		12		13,0			49,5	2,030	100
260952		16		17,0			53,5	2,350	100
260954	70	6	13	6,5	18,7	31,5	51	2,950	100
260956		8		8,4			51	2,850	100
290958		10		10,5			51	2,850	100
260960		12		13,0			51	2,650	100
260962		16		17,0			55	3,100	100
260964	95	8	15	8,4	21,7	35,5	57,5	4,550	50
260966		10		10,5			57,5	4,450	50
260968		12		13,0			57,5	4,500	50
260970		16		17,0			59,5	4,600	50
260972	120	8	16,5	8,4	24,2	40	62	6,000	50
260974		10		10,5			62	6,100	50
260976		12		13,0			62	6,000	50
260978		16		17,0			66	6,300	50
260980	150	10	19	10,5	27,2	44	70	8,450	25
260982		12		13,0			70	8,450	25
260984		16		17,0			70	8,300	25



### Pliers for:

#### insulated crimping terminals

CS	crimping pliers	mechan. pliers	pneum. hydraul. pliers	catalouge-page
0,25 - 2,5	21 08 45			24
0,25 - 6,0	21 08 02			24
	21 07 61			24
0,5 - 0,6	21 08 08			24
	21 08 14			24

### Pliers for:

#### insulated crimping terminals

CS	crimping pliers	mechan. pliers	pneum. hydraul. pliers	catalouge-page
10,0 - 16	21 08 27			24
		21 50 00		34
10,0 - 35		21 51 00		36

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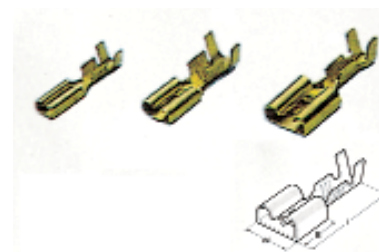
**Consumable items**

Connectors  
Ring terminals  
Terminals  
DIN-terminals

### Socket sleeve (female) with cable adjustment

brass bright, uninsulated, DIN 46247/part 1 - 3

Art. No.	CS	plug	W	L	E	weight	PU
28 00 00	0,5 - 1,00	6,3 x 0,8	7,6	19,2	7,6	500	200
28 00 04	1,0 - 2,50	6,3 x 0,8	7,6	19,2	7,6	1100	200
28 00 08	0,5 - 1,25	4,8 x 0,8	5,6	15	6,4	1000	200
28 00 12		4,8 x 0,5	5,6	15	6,4	1000	200
28 00 16		2,8 x 0,8	3,75	16	6,4	1000	200
28 00 20		2,8 x 0,5	3,75	16	6,4	1000	200



### Socket sleeve (female) with cable adjustment

tinned, uninsulated, DIN 46247/part 1 - 3

Art. No.	CS	plug	W	L	E	weight	PU
28 00 30	0,5 - 1,00	6,3 x 0,8	7,6	19,2	7,6	500	200
28 00 34	1,0 - 2,50	6,3 x 0,8	7,6	19,2	7,6	1100	200
28 00 38	0,5 - 1,25	4,8 x 0,8	5,6	15	6,4	1000	200
28 00 42		4,8 x 0,5	5,6	15	6,4	1000	200
28 00 46		2,8 x 0,8	3,75	16	6,4	1000	200
28 00 50		2,8 x 0,5	3,75	16	6,4	1000	200

### Socket sleeve (female) with cable adjustment

with side connection, flag type, brass bright, uninsulated

Art. No.	CS	plug	W	L	E	weight	PU
28 00 60	0,5 - 1,0	6,3 x 0,8	7,6	14,1	7,6	1300	200
28 00 64	1,0 - 2,5	6,3 x 0,8	7,6	14,1	7,6	1300	200



### Socket sleeve (female) with cable adjustment

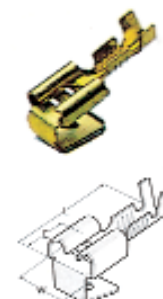
mit seitlichem Leiteranschluß, brass tinned, uninsulated

Art. No.	CS	plug	W	L	E	weight	PU
28 00 70	0,5 - 1,0	6,3 x 0,8	7,6	14,1	7,6	1300	200
28 00 74	1,0 - 2,5	6,3 x 0,8	7,6	14,1	7,6	1300	200

### Socket sleeve (female) with cable adjustment

with big back, brass bright, uninsulated

Art. No.	CS	plug	W	L	E	weight	PU
28 00 80	0,5 - 1,0	6,3 x 0,8	7,6	19,6	7,7	600	200
28 00 84	1,0 - 2,5	6,3 x 0,8	7,6	16,2	7,7	600	200



### Socket sleeve (female) with cable adjustment

with big back, brass tinned, uninsulated

Art. No.	CS	plug	W	L	E	weight	PU
28 00 90	0,5 - 1,0	6,3 x 0,8	7,6	19,6	7,7	600	200
28 00 94	1,0 - 2,5	6,3 x 0,8	7,6	16,2	7,7	600	200

CS ..... cross section in mm<sup>2</sup>  
 IF ..... identification figure  
 height ..... in mm

length ..... in mm  
 M ..... bolt M in mm  
 plug ..... flat plug

PU ..... packing unit in pieces  
 weight ..... in gr.  
 width ..... in mm



## Socket (male)

brass bright, uninsulated

Art. No.	CS	plug	L	E	weight	PU
28 01 00	0,5 - 1,0	6,3 x 0,8	20,6	6,35	1200	200
28 01 04	1,0 - 2,5	6,3 x 0,8	17,2	6,35	1200	200



## Socket (male)

tinned, uninsulated

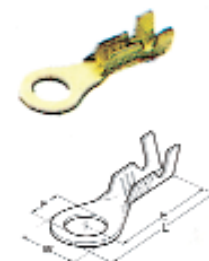
Art. No.	CS	plug	L	E	weight	PU
28 01 10	0,5 - 1,0	6,3 x 0,8	20,6	6,35	1200	200
28 01 14	1,0 - 2,5	6,3 x 0,8	17,2	6,35	1200	200



## Ring terminals

brass bright, uninsulated

Art. No.	CS	F	E	L	W	weight	PU
28 01 20	0,5 - 1	3,2	17	21	8	1200	200
28 01 24		4,3	17	21	8	1200	200
28 01 28		5,08	17	22	9,5	1200	200
28 01 32	1 - 2,5	3,2	17	21	8	1400	200
28 01 36		4,3	17	21	8	1400	200
28 01 40		5,08	17	22	9,5	1400	200



## Ring terminals

brass tinned, uninsulated

Art. No.	CS	F	E	L	W	weight	PU
28 01 50	0,5 - 1	3,2	17	21	8	1200	200
28 01 54		4,3	17	21	8	1200	200
28 01 58		5,08	17	22	9,5	1200	200
28 01 62	1 - 2,5	3,2	17	21	8	1400	200
28 01 66		4,3	17	21	8	1400	200
28 01 70		5,08	17	22	9,5	1400	200



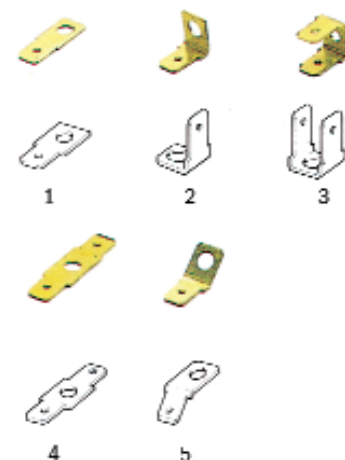
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## Blade terminals (male)

brass bright, uninsulated

Art. No.	form	socket	length	drill-Ø	a	length	weight	PU
28 01 80	1	6,3 x 0,8	8	4,2	0°	19,20	500	200
28 01 82	5	6,3 x 0,8	8	4,2	45°	10,20	500	200
28 01 84	2	6,3 x 0,8	8	4,2	90°	11,30	500	200
28 01 86	4	6,3 x 0,8	8	4,2	0°	30,30	500	200
28 01 88	3	6,3 x 0,8	8	4,2	90°	11,45	500	200



## Blade terminals (male)

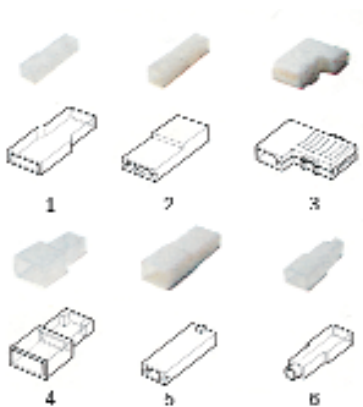
brass tinned, uninsulated

Art. No.	form	socket	length	drill-Ø	a	length	weight	PU
28 01 90	1	6,3 x 0,8	8	4,2	0°	19,20	500	200
28 01 92	5	6,3 x 0,8	8	4,2	45°	10,20	500	200
28 01 94	2	6,3 x 0,8	8	4,2	90°	11,30	500	200
28 01 96	4	6,3 x 0,8	8	4,2	0°	30,30	500	200
28 01 98	3	6,3 x 0,8	8	4,2	90°	11,45	500	200

## Sleeves

PVC and nylon

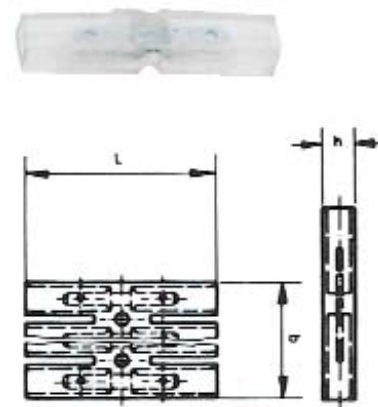
Art. No.	form	material	socket	weight	PU
28 02 00	1	PVC	6,3	150	100
28 02 02	2	nylon	6,3	150	100
28 02 04	6	PVC	4,8	150	100
28 02 06	2	nylon	4,8	150	100
28 02 08	6	PVC	2,8	150	100
28 02 10	5	nylon	2,8	150	100
28 02 12	4	PVC	6,3	150	100
28 02 14	3	nylon	6,3	150	100



## Blade terminals, 1 - 12 way

PVC, natural coloured

Art. No.	plug	pole	length	width	height	Screw holes		weight	PU
						mm	Ø		
28 04 60	2,8 x 0,8	1	7,5	35	5,5	-	-	200	100
28 04 82	2,8 x 0,8	12	88	35	5,5	75	2,7	1600	10
28 04 90	4,8 x 0,8	1	12,5	28	7	-	-	250	100
28 05 12	4,8 x 0,8	12	147	28	7	123	3,2	2800	10
28 05 20	6,3 x 0,8	1	12,5	28	7	-	-	300	100
28 05 42	6,3 x 0,8	12	147	28	7	123	3,2	3200	10
28 05 50	2,8 x 0,8	1	12,5	28	7	-	-	250	100
28 05 72	2,8 x 0,8	12	147	28	7	121	3,2	2800	50



## Circuit distributors

Art. No.	plug	L	l1	b	b1	b2	h	form	weight	PU
28 05 80	6,3 x 0,8	53	15	21	11,3	9	7,5	A	600	50
28 05 82	6,3 x 0,8	51	13	20	-	9	7	B	650	50



Form A



Form B



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## Instructions

### 1. The choice of the connector

In order to obtain a connection that can be guaranteed for a long time it is necessary to select the connectors suitable to the application field and strictly conform to the section of the cable to be crimped.

In the large range of Haupa products you will certainly find the ideal solution for every requirement.

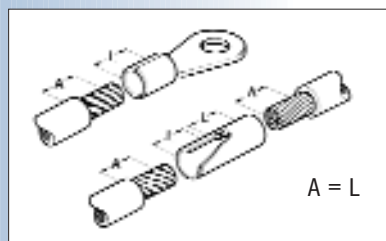
### 2. Stripping

Every crimping operation requires first that the cable is stripped without deforming the wires.

Ø mm <sup>2</sup>	stripping tolerance
	+/- mm
0,5 - 2,5	0,8
4 - 6	1,2
10 - 120	1,6
150 - 630	3,2

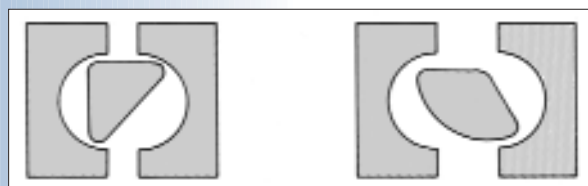
### 3. Cleaning

The conductor ends have to be solidly cleaned from oxidation and every rest of dirt before mounting.



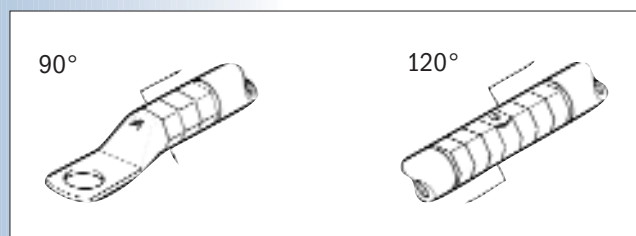
### 4. Assembling

- Fit the connector to the cable with a round section in the complete length of the stripped area.
- Verify that there are no wires outside the connector. If you need to use sectoral cables you must arrange a previous rounding crimping operation of the cable.



### 5. Choice of the crimping tool

All dies and punchings of the Haupa crimping system guarantee a high degree of connection between connector and cable. Exercise the crimping operation as shown in drawing 1 on the terminals and as drawing 2 on the butt connectors. The elevated pressure exerted by dies on terminals cause a uniform deformation on the whole crimping area.



## Uninsulated crimping terminals

copper tinned 99,9%, ring type

Art. No.	CS	M	F	B	L	d	A	weight	PU
29 06 19	0,25 - 1,5	2,5	2,60	8	17,25	1,95	5,20	50	100
29 06 20		3	3,20	8	17,25	1,95	5,20	50	100
29 06 21		3,5	3,70	8	17,25	1,95	5,20	50	100
29 06 22		4	4,20	8	16,65	1,95	5,20	50	100
29 06 24		5	5,20	8	17,25	1,95	5,20	100	100
29 06 23		6	6,20	10	18,50	1,95	5,20	50	100
29 06 25		8	8,20	14	25	1,95	5,20	100	100
29 06 17		10	10,50	14	25	1,95	5,20	100	100
29 06 18		2,5	2,60	8	17,25	2,45	5,20	50	100
29 06 26		3	3,20	8	17,25	2,45	5,20	100	100
29 06 27	1,5 - 2,5	3,5	3,70	8	17,25	2,45	5,20	100	100
29 06 28		4	4,20	8	17,25	2,45	5,20	50	100
29 06 30		5	5,20	10	20	2,45	5,20	50	100
29 06 32		6	6,20	11	22	2,45	5,20	100	100
29 06 34		8	8,20	15	26,80	2,45	5,20	100	100
29 06 35		10	10,50	15	26,80	2,45	5,20	200	100
29 06 37		3,5	3,70	8	18,70	3,50	6,50	150	100
29 06 36		4	4,20	8	18,70	3,50	6,50	150	100
29 06 38		5	5,20	10	21,80	3,50	6,50	200	100
29 06 40		6	6,20	11	23,00	3,50	6,50	200	100
29 06 42	2,5 - 6,0	8	8,20	15	29,30	3,50	6,50	250	100
29 06 44		10	10,50	19	32,20	3,50	6,50	350	100



## Uninsulated crimping terminals

copper tinned 99,9%  
fork type

Art. No.	CS	M	F	B	L	d	A	weight	PU
29 07 29	0,25 - 1,5	2,5	2,60	5,6	14,60	1,95	5,20	50	100
29 07 30		3	3,20	5,60	14,60	1,95	5,20	50	100
29 07 31		3,5	3,70	6,50	14,90	1,95	5,20	50	100
29 07 32		4	4,20	6,40	15	1,95	5,20	100	100
29 07 34		5	5,20	8,00	16,25	1,95	5,20	100	100
29 07 35		6	6,20	9,20	17,50	1,95	5,20	100	100
29 07 37	1,5 - 2,5	2,5	2,60	5,60	17,25	2,45	5,20	100	100
29 07 36		3	3,20	5,60	17,25	2,45	5,20	100	100
29 07 39		3,5	3,70	6,60	14,30	2,45	5,20	100	100
29 07 38		4	4,20	6,60	14,30	2,45	5,20	100	100
29 07 40		5	5,20	9,10	19,25	2,45	5,20	100	100
29 07 42		6	6,20	10	21	2,45	5,20	50	100
29 07 43	2,5 - 6,0	3,5	3,70	8	19,65	3,50	6,50	100	100
29 07 44		4	4,20	8	18,60	3,50	6,50	100	100
29 07 46		5	5,20	9	21,10	3,50	6,50	150	100
29 07 48		6	6,20	11	22,30	3,50	6,50	150	100
29 07 50		8	8,20	15,20	27,30	3,50	6,50	150	100
29 07 51		10	10,50	19	30,20	3,50	6,50	300	100
29 07 52	6,0 - 10,0	5	5,2	9	20,8	4,7	8,50	300	100
29 07 54	10,0 - 16,0	6	6,4	10,3	20,8	4,7	8,50	250	100
29 07 56		6	6,4	11,0	25,5	5,8	10,50	250	100



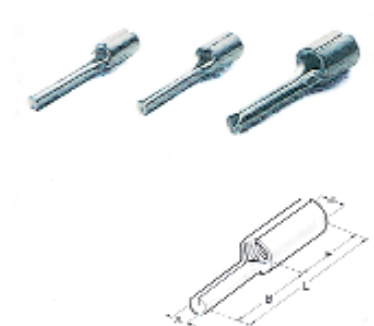
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## Uninsulated crimping terminals

copper tinned 99,9%  
pin type DIN 46230

Art. No.	CS	A	B	E	L	d	weight	PU
29 07 70	0,25 - 1,5	1,8	12	5	17,3	1,85	20	100
29 07 71		1,8	9	5	17,3	1,85	30	100
29 07 73	1,5 - 2,5	1,8	9	5	17,3	2,40	50	100
29 07 75		1,8	9	5	17,3	2,40	100	100
29 07 77	2,5 - 6,0	2,6	12,5	6	20,5	3,60	150	100
29 07 76	10	4,0	14	8,5	24,5	4,50	200	100
29 07 78	16	4,5	14	10,5	26,5	5,80	450	100
29 07 80	25	7,0	15	14	33	7	70	100
29 07 82	35	8,0	20	16	40	8,2	1200	100
29 07 84	50	9,5	20	19	45	9,5	2300	100
29 07 86	70	11,5	25	24	55	11,2	3000	100
29 07 88	95	12,5	25	24	55	13,5	4000	100



## Uninsulated crimping terminals

butt connectors, copper tinned 99,9%

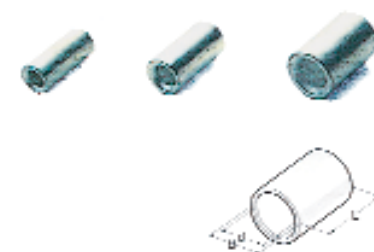
Art. No.	CS	B	L	d	weight	PU
29 01 35	0,25 - 1,5	3,3	15,0	1,7	100	100
29 01 36	1,5 - 2,5	4,1	15,0	2,3	150	100
29 01 37	2,5 - 6,0	5,4	15,0	3,4	200	100



## Uninsulated crimping terminals

parallel connectors, copper tinned 99,9%

Art. No.	CS	B	L	d	weight	PU
29 00 85	0,25 - 1,5	3,3	8,4	1,7	50	100
29 00 86	1,5 - 2,5	4,1	8,4	2,3	50	100
29 00 88	2,5 - 6,0	5,4	8,4	3,4	50	100

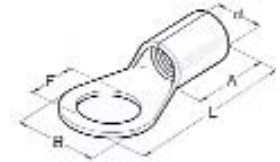




## Crimping terminals DIN 46234

uninsulated, copper tinned 99,9%, ring type

Art. No.	CS	M	d	F	B	L	A	weight	PU
29 06 46	6	5	3,60	5,30	10	15	6	200	100
29 06 48		6	3,60	6,50	11	16	6	200	100
29 06 50		8	3,60	8,40	14	19	6	250	100
29 06 52		10	3,60	10,50	18	21	6	300	100
29 06 54		12	3,60	13,0	18	21	6	250	100
29 06 56	10	5	4,50	5,30	10	16	8	250	100
29 06 58		6	4,50	6,40	11	17	8	250	100
29 06 60		8	4,50	8,40	14	20	8	300	100
29 06 62		10	4,50	10,50	18	21	8	350	100
29 06 63		12	4,50	13,00	22	23	8	450	100
29 06 64	16	5	5,80	5,30	10	20	10	500	100
29 06 66		6	5,80	6,40	11	20	10	400	100
29 06 68		8	5,80	8,40	14	22	10	450	100
29 06 70		10	5,80	10,50	18	24	10	500	100
29 06 72		12	5,80	13,00	22	26	10	650	100
29 06 74		16	5,80	17,00	32	36	10	1250	100
29 06 76	25	6	7,50	6,40	12	25	11	350	50
29 06 78		8	7,50	8,40	16	25	11	400	50
29 06 80		10	7,50	10,50	18	26	11	400	50
29 06 82		12	7,50	13,00	22	31	11	500	50
29 06 83		14	7,50	15,00	30	37	11	500	50
29 06 84		16	7,50	17,00	28	35	11	200	50
29 06 86	35	8	9,00	8,40	16	26	12	200	50
29 06 88		10	9,00	10,50	18	27	12	550	50
29 06 90		12	9,00	13,00	22	31	12	600	50
29 06 91		14	9,00	15,00	28	36	12	700	50
29 06 92		16	9,00	17,00	28	36	12	900	50
29 06 94	50	8	11,00	8,40	18	34	16	850	50
29 06 96		10	11,00	10,50	18	34	16	900	50
29 06 98		12	11,00	13,00	22	36	16	950	50
29 06 99		14	11,00	15,00	28	40	16	1150	50
29 07 00		16	11,00	17,00	28	40	16	1100	50
29 07 01	70	8	13,00	8,40	22	38	18	1400	50
29 07 02		10	13,00	10,50	22	38	18	1350	50
29 07 04		12	13,00	13,00	22	38	18	1300	50
29 07 06		14	13,00	15,00	28	42	18	1400	50
29 07 07	95	8	15,00	8,40	24	42	20	1800	50
29 07 08		10	15,00	10,50	24	42	20	2050	50
29 07 10		12	15,00	13,00	24	42	20	2000	50
29 07 11		14	15,00	15,00	28	44	20	2000	50
29 07 12		16	15,00	17,00	28	44	20	2350	50
29 07 13	120	10	16,50	10,50	24	44	22	1350	25
29 07 14		12	16,50	13,00	24	44	22	1400	25
29 07 15		14	16,50	15,00	28	44	22	1400	25
29 07 16		16	16,50	17,00	28	48	22	1500	25
29 07 17		20	16,50	21,00	32	53	22	1500	25
29 07 19	150	10	19,00	10,50	30	50	24	2050	25
29 07 21		12	19,00	13,00	30	50	24	2000	25
29 07 22		14	19,00	15,00	30	50	24	2000	25
29 07 18		16	19,00	17,00	30	50	24	1900	25
29 07 23		20	19,00	21,00	36	63	24	2050	25
29 07 20	185	16	21,00	17,00	36	50	25	2050	25



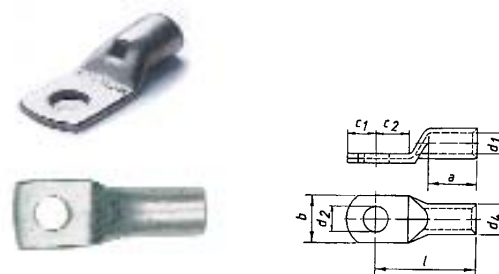
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## Tube terminals

made from tube, copper tinned 99,9%, with and without inspection hole

Example for Art. No. with inspection hole: 29 09 00/S



Art. No.	CS	M	crimps quantity		d1	d2	d4	a	b	c1	c2	l	KG/100 pc.	PU	Dealer Box
			small	wide											
290900	0,75	3	1		1,3	3,2	2,8	6	6,0	3,25	4,0	12	0,060	100	2000
290902		4	1			4,3			6,5	4,00	5,0	13	0,060	100	2000
290904	1,5	3	1		1,8	3,2	3,3	6	6,5	3,25	4,0	12	0,080	100	2000
290906		4	1			4,3			6,5	4,00	5,0	13	0,080	100	2000
290908		5	1			5,3			7,5	4,75	5,5	14	0,080	100	2000
290910		6	1			6,5			9,0	6,50	6,5	16	0,090	100	2000
290912	2,5	3	1		2,3	3,2	4,2	6	7,5	3,25	4,0	12	0,120	100	2000
290914		4	1			4,3			7,5	4,00	5,0	13	0,120	100	2000
290916		5	1			5,3			8,5	4,75	5,5	14	0,130	100	2000
290918		6	1			6,5			9,5	6,50	6,5	16	0,150	100	2000
290920		8	1			8,5			13,0	7,75	9,5	20	0,180	100	2000
290922	4,0	4	1		3	4,3	5	8	8,5	4,75	5,5	17	0,210	100	2000
290924		5	1			5,3			9,0	4,75	6,0	17	0,210	100	2000
290926		6	1			6,5			10,0	6,50	6,5	19	0,220	100	2000
290928		8	1			8,5			13,0	8,50	9,5	22	0,280	100	2000
290930	6,0	4	1		3,5	4,3	6,5	9	8,5	5,00	5,5	18	0,290	100	1800
290932		5	1			5,3			10,0	6,50	7,5	21	0,470	100	1800
290934		6	1			6,5			12,0	6,50	7,5	21	0,470	100	1400
290936		8	1			8,5			15,0	10,00	10,0	23	0,540	100	1400
290938	10	5	1		4,5	5,3	7	10	12,0	6,50	7,5	22	0,500	100	1000
290940		6	1			6,5			12,0	6,50	7,5	22	0,490	100	1000
290942		8	1			8,5			15,0	10,00	10,0	25	0,580	100	800
290944		10	1			10,5			17,0	12,00	12,0	27	0,620	100	600
290946		12	1			13,0			19,0	13,00	13,0	29	0,640	100	600
290948	16	5	1	1	5,5	5,3	8,5	13	12,0	5,50	6,5	26	0,840	100	600
290950		6	1	1		6,5			12,0	6,25	7,5	27	0,860	100	600
290952		8	1	1		8,5			15,0	8,50	9,5	29	0,930	100	400
290954		10	1	1		10,5			17,0	10,50	11,5	31	0,990	100	400
290956		12	1	1		13,0			19,0	12,00	13,0	33	1,020	100	400
290958	25	6	2	1	7	6,5	10	15	14,0	7,50	7,5	30	1,200	50	400
290960		8	2	1		8,5			16,0	10,00	10,0	32	1,300	50	400
290962		10	2	1		10,5			18,0	12,00	12,0	34	1,550	50	300
290964		12	2	1		13,0			19,0	13,00	13,0	35	1,400	50	300
290966	35	6	2	1	8,5	6,5	12	17	17,0	7,50	7,5	32	1,850	40	240
290968		8	2	1		8,5			17,0	10,00	10,0	34	2,000	40	240
290970		10	2	1		10,5			19,0	12,00	12,0	37	2,150	40	160
290972		12	2	1		13,0			21,0	13,00	13,0	38	2,120	40	160
290974		16	2	1		17,0			26,0	16,00	16,0	42	2,240	35	140
290976	50	6	2	1	10	6,5	14	19	20,0	10,00	10,0	37	3,000	25	150
290978		8	2	1		8,5			20,0	10,00	10,0	37	3,000	25	150
290980		10	2	1		10,5			20,0	12,00	12,0	39	3,080	25	150
290982		12	2	1		13,0			23,0	13,00	13,0	43	3,230	25	100
290984		16	2	1		17,0			28,0	16,00	16,0	46	3,400	25	100
290985	70	6	2	1	12	6,5	16,5	21	23,0	10,00	10,0	43	4,500	25	100
290986		8	2	1		8,5			23,0	10,00	10,0	43	4,400	25	100
290988		10	2	1		10,5			23,0	12,00	12,0	44	4,500	25	100
290990		12	2	1		13,0			23,0	13,00	13,0	46	4,600	25	100
290991		14	2	1		15,0			23,0	14,50	14,5	48	4,770	25	100
290992		16	2	1		17,0			28,0	16,00	16,0	50	4,300	25	100
290994	95	8	2	1	13,5	8,5	18	25	26,0	12,00	12,0	48	5,450	25	100
290996		10	2	1		10,5			26,0	12,00	12,0	48	5,450	25	100
290998		12	2	1		13,0			26,0	13,00	13,0	49	5,550	25	100
290999		14	2	1		15,0			26,0	14,50	14,5	51	5,600	10	40
291000		16	2	1		17,0			28,0	16,00	16,0	54	5,800	10	40
291002		20	2	1		21,0			36,0	22,00	22,0	60	6,700	10	40

CS ..... cross section in mm<sup>2</sup>  
 IF ..... identification figure  
 height ..... in mm

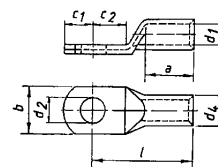
length ..... in mm  
 M ..... bolt M in mm  
 plug ..... flat plug

PU ..... packing unit in pieces  
 weight ..... in gr.  
 width ..... in mm

## Tube terminals (continued)

made from tube, copper tinned 99,9%, with and without inspection hole

Example for Art. No. with inspection hole: 29 00 04/S



Art. No.	CS	M	crimps quantity		d1	d2	d4	a	b	c1	c2	l	KG/100 pc.	PU	Dealer Box
			small	wide											
290004	120	8	2	1	15	8,5	19,5	26	28,0	14,00	14,0	51	6,700	20	20
290006		10	2	1		10,5			28,0	14,00	14,0	51	6,550	20	80
290008		12	2	1		13,0			28,0	14,00	14,0	51	6,400	20	80
290009		14	2	1		15,0			28,0	15,00	15,0	52	6,450	18	72
290010		16	2	1		17,0			30,0	16,00	16,0	54	6,500	18	72
290012		20	2	1		21,0			36,0	22,00	22,0	63	7,700	15	60
290014	150	10	2	1	16,5	10,5	21	30	31,0	14,00	14,0	56	7,600	12	72
290016		12	2	1		13,0			31,0	15,00	15,0	57	7,700	12	72
290017		14	2	1		15,0			31,0	15,00	15,0	57	7,650	12	72
290018		16	2	1		17,0			31,0	16,00	16,0	58	7,500	12	48
290020		20	2	1		21,0			36,0	22,00	22,0	66	8,800	12	48
290022	185	12	2	1	19	13,0	24	30	35,0	18,00	18,0	65	11,800	20	40
290023		14	2	1		15,0			35,0	18,00	18,0	65	11,400	20	40
290024		16	2	1		17,0			35,0	18,00	18,0	65	11,250	20	40
290026		20	2	1		21,0			39,0	22,00	22,0	69	12,000	20	40
290028	240	12	4	2	21	13,0	26	35	39,0	21,50	19,0	72	14,550	15	30
290029		14	4	2		15,0			39,0	21,50	19,0	72	14,250	15	30
290030		16	4	2		17,0			39,0	21,50	19,0	72	14,100	15	30
290034	300	12	4	2	23,5	13,0	29,5	44	43,0	24,00	24,0	72	23,350	8	16
290036		14	4	2		15,0			43,0	24,00	24,0	87	23,150	8	16
290038		16	4	2		17,0			43,0	24,00	24,0	87	22,750	8	16
290040		20	4	2		21,0			43,0	24,00	24,0	87	22,200	8	16
290046	400	16	4	2	27	17,0	34	44	49,0	24,00	24,0	90	32,000	5	10
290048		20	4	2		21,0			49,0	24,00	24,0	90	31,400	5	10
290041	500	16	4	2	31	17,0		70	55,0				47,860	4	8
290043		20	4	2		21,0			55,0				47,800	4	8
290045	625	16	4	2	34	17,0		70	60,0				51,350	3	6
290047		20	4	2		21,0			60,0				50,600	3	6



## Terminals assortement, standard

in metal box, with pliers

Containing:

- 25 terminals 6,0 mm<sup>2</sup>, Bolt M6, Art. No. 29 09 34
- 25 terminals 6,0 mm<sup>2</sup>, Bolt M8, Art. No. 29 09 36
- 25 terminals 10,0 mm<sup>2</sup>, Bolt M6, Art. No. 29 09 40
- 25 terminals 10,0 mm<sup>2</sup>, Bolt M8, Art. No. 29 09 32
- 25 terminals 16,0 mm<sup>2</sup>, Bolt M8, Art. No. 29 09 52
- 25 terminals 16,0 mm<sup>2</sup>, Bolt M10, Art. No. 29 09 54
- 25 terminals 25,0 mm<sup>2</sup>, Bolt M8, Art. No. 29 09 60
- 25 terminals 25,0 mm<sup>2</sup>, Bolt M10, Art. No. 29 09 62
- 20 terminals 35,0 mm<sup>2</sup>, Bolt M8, Art. No. 29 09 34
- 20 terminals 35,0 mm<sup>2</sup>, Bolt M10, Art. No. 29 09 70
- 20 terminals 50,0 mm<sup>2</sup>, Bolt M10, Art. No. 29 09 80
- 20 terminals 50,0 mm<sup>2</sup>, Bolt M12, Art. No. 29 09 82
- 1 crimping pliers (Art. 21 08 05), crimping range 6 - 50 mm<sup>2</sup>, hexagon crimping Standard
- 1 metal box 400 x 250 x 50 mm

Art. No.	weight	PU
29 02 46	7000	1



**haupa**

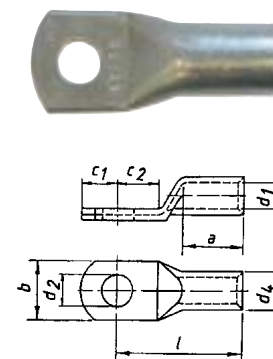
...Technology that connects

## Tube terminals for finewiring conductors

### without inspection hole

Electrolytic copper tube 99,9 %, copper tinned acc. to DIN 40500

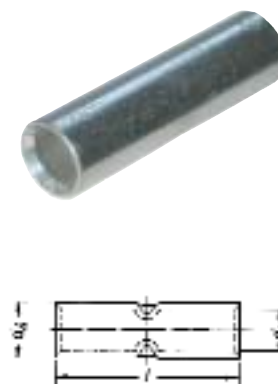
Art. No.	CS	M	d1	d2	b	l	a	weight	PU
29 02 50	10	6	5	6,5	11	22	11	370	100
29 02 52		8	5	8,4	15	26	11	440	100
29 02 54		10	5	10,5	18	29	11	460	100
29 02 56		12	5	13	20	30	11	460	100
29 02 58	16	6	6	6,5	13	27	13	690	100
29 02 60		8	6	8,4	15	28	13	770	100
29 02 62		10	6	10,5	18	32	13	820	100
29 02 64		12	6	13	20	32	13	820	100
29 02 66	25	6	7,7	6,5	16	32	16	1090	100
29 02 68		8	7,7	8,4	16	32	16	1150	100
29 02 70		10	7,7	10,5	18	34	16	1230	100
29 02 72		12	7,7	13	20	35	16	1240	100
29 02 76	35	8	9	10,5	20	37	18	1600	100
29 02 78		10	9	13	23	39	18	1800	100
29 02 80		12	9	17	28	45	18	1800	100
29 02 82	50	8	11	8,4	22	42	21	2500	100
29 02 84		10	11	10,5	22	42	21	2450	100
29 02 86		12	11	13	23	42	21	2600	100
29 02 88		16	11	17	28	48	21	2700	100
29 02 90	70	8	13,5	8,4	25	48	24	4100	100
29 02 92		10	13,5	10,5	25	48	24	4000	100
29 02 94		12	13,5	13	25	48	24	3850	100
29 02 96		16	13,5	17	28	52	24	4100	100
29 03 00	95	10	15,5	13	29	53	28	4200	50
29 03 02		12	15,5	17	29	55	28	4100	50
29 03 04		16	15,5	21	34	58	28	4250	50
29 03 06	120	10	16,8	10,5	31	55	29	7550	50
29 03 08		12	16,8	13	31	55	29	7450	50
29 03 10		16	16,8	17	31	56	29	7100	50
29 03 12		20	16,8	21	34	60	29	8100	50
29 03 16	150	12	19	13	36	65	30	10550	25
29 03 18		16	19	17	35	65	30	10200	25
29 03 20		20	19	21	35	65	30	10500	25



## Crimping tube tubular connectors/Butt space connectors standard

Electrolytic copper tube 99,9 %, acc. to DIN 40500, tinned

Art. No.	CS	crimps quantity		d1	d4	l	KG/100 pc.	PU	Dealer Box
		small	wide						
29 10 50	0,75	1		1,3	2,8	14	0,085	100	2000
29 10 52	1,5	1		1,8	3,3	14	0,139	100	2000
29 10 54	2,5	1		2,3	4,2	16	0,139	100	2000
29 10 56	4	1		3	5	19	0,275	50	1000
29 10 58	6	1		3,5	6,5	19	0,500	50	1000
29 10 60	10	1		4,5	7	30	0,590	50	600
29 10 62	16	1	1	5,5	8,5	35	1,020	50	500
29 10 64	25	2	1	7	10	40	1,420	50	200
29 10 66	35	2	1	8,5	12	45	2,250	25	200
29 10 68	50	2	1	10	14	50	3,300	25	100
29 10 70	70	2	1	12	16,5	55	4,900	25	50
29 10 72	95	2	1	13,5	18	60	6,000	25	50
29 10 74	120	2	1	15	19,5	65	7,000	25	50
29 10 76	150	2	1	16,5	21	70	8,300	25	50
29 10 78	185	2	1	19	24	80	11,200	18	36
29 10 80	240	4	2	21	26	90	14,000	6	12
29 10 82	300	4	2	23,5	29,5	100	22,200		6
29 10 84	400	4	2	27	34	100	30,000		6



CS ..... cross section in mm<sup>2</sup>  
 IF ..... identification figure  
 height ..... in mm

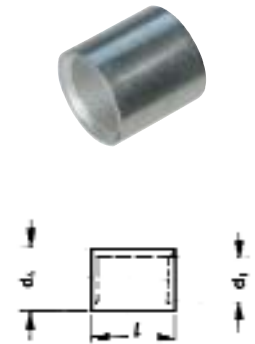
length ..... in mm  
 M ..... bolt M in mm  
 plug ..... flat plug

PU ..... packing unit in pieces  
 weight ..... in gr.  
 width ..... in mm

## Crimp type tubular connectors DIN 46341 part 1, form A/Butt connectors

99,9% Electrolytic copper tube, tinned

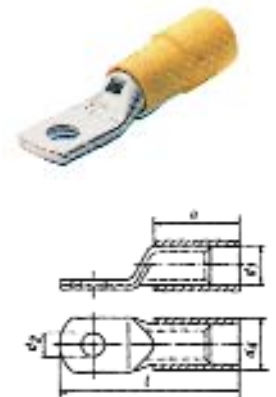
Art. No.	CS	crimps quantity		d1	d2	d4	l	KG/100 pc.	PU	Dealer Box
		small	wide							
291090	0,5-1,0			1,6	3,3	7		0,042	100	2000
291092	1,5-2,5			2,3	4,2	7		0,053	100	2000
291096	4-6	1		3,6	5,5	7		0,088	100	2000
291098	10	1		4,5	7	9		0,164	100	2000
291100	16	1	1	5,5	8,5	10		0,280	50	1000
291102	25	2	1	7	10	13		0,440	50	600
291104	35	2	1	8,5	12	16		0,780	50	500
291106	50	2	1	10	14	19		1,220	50	300
291108	70	2	1	12	16,5	19		1,620	25	200
291110	95	2	1	13,5	18	20		1,900	25	150
291112	120	2	1	15	19,5	22		2,300	20	120
291114	150	2	1	16,5	21	26		3,000	15	60



## Crimping tube terminals, nylon insulated

Electrolytic copper tube 99,9 %, tinned

Art. No.	CS	M	d1	d2	d4	a	l	KG/100 pc.	PU
290800	10	5	7	5,5	9	17	35,5	0,500	100
290801		6		6,5			35,5	0,500	100
290802		8		8,5			42	0,600	100
290804		10		10,5			46	0,700	100
290806	16	5	8,5	5,5	10,5	21	39,5	0,900	100
290810		6		6,5			41,3	0,900	100
290812		8		8,5			45,5	1,000	100
290814		10		10,5			49,5	1,100	100
290816		12		13,0			54	1,100	100
290818	25	6	10	6,5	12	24	46,5	1,300	100
290820		8		8,5			51	1,400	100
290822		10		10,5			55	1,600	100
290824		12		13,0			57	1,500	100
290826	35	6	12	6,5	14,5	27	49,5	2,000	100
290830		8		8,5			54	2,200	100
290832		10		10,5			59	2,300	100
290834		12		13,0			61	2,300	100
290836	50	6	14	6,5	16,5	32	59	3,200	100
290840		8		8,5			59	3,200	100
290842		10		10,5			63	3,300	100
290844		12		13,0			68	3,500	100
290846		14		15,0			71,5	3,500	100
290848	70	8	16,4	8,5	18,9	33,5	65,5	4,700	100
290850		10		10,5			66,5	4,800	50
290852		12		13,0			70,5	4,900	50
290854		14		15,0			73,5	5,000	50
290856		16		17,0			78,5	4,500	50
290858	95	8	17,8	8,5	20,8	40	74	5,900	50
290860		10		10,5			74	5,800	25
290862		12		13,0			76	6,000	25
290864		14		15,0			79,5	6,000	25
290866		16		17,0			84	6,200	25
290868	120	8	19,3	8,5	22,3	41,5	80,5	7,200	25
290870		10		10,5			80,5	7,000	25
290872		12		13,0			80,5	6,800	25
290874		14		15,0			82,5	6,900	25
290876		16		17,0			85,5	7,000	25
290878	150	10	20,8	10,5	23,8	48	88	8,200	25
290880		12		13,0			89	8,300	25
209882		14		15,0			90	8,200	25
290884		16		17,0			92	8,100	25
209886		20		21,0			106	9,400	25



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## Crimping terminals DIN 46235

Electrolytic copper 99,9 %, tinned

\* this dimensions are not DIN normed



Art. No.	CS	M	IF	crimps quantity		d1	d2	d4	a	b	c1	c2	l	KG/100 pc.	PU	Dealer	Box
				small	wide												
290404	6	6	5	2		3,8	6,4	5,5	10	8,5	7,5	8	24	0,3	100		800
290406*		8		2			8,4			13	10	10		0,35	100		800
290408	10	5	6	2		4,5	5,3	6	10	9	7	8,5	27	0,37	100		800
290410		6		2			6,4			9	7,5	8,5		0,36	100		800
290412*		8		2			8,4			13	10	10		0,38	100		800
290414*		10		2			10,5			15	8,2	8,2	28	0,38	100		800
290416	16	6	8	2	1	5,5	6,4	8,5	20	13	7,5	8	36	1,2	50		500
290418		8		2	1		8,4			13	10	10		1,25	50		400
290420		10		2	1		10,5			17	12	12		1,3	50		400
290422*		12		2	1		13			18	13	13		1,28	50		400
290424	25	6	10	2	1	7	6,4	10	20	14	7,5	8	38	1,5	50		300
290426		8		2	1		8,4			16	10	10		1,55	50		300
290428		10		2	1		10,5			17	12	12		1,6	50		300
290430		12		2	1		13			19	13	13		1,65	50		300
290432*	35	6	12	2	1	8,2	6,4	12,5	20	17	7,5	8	42	2,75	25		150
290434		8		2	1		8,4			17	10	10		2,9	25		150
290436		10		2	1		10,5			19	12	12		2,85	25		150
290438		12		2	1		13			21	13	13		2,8	25		150
290440	50	8	14	3	1	10	8,4	14,5	28	20	10	10	52	4,45	25		100
290442		10		3	1		10,5			22	12	12		4,5	25		100
290444		12		3	1		13			24	13	13		4,4	25		100
290446		16		3	1		17			28	16	16		4,6	25		100
290448	70	8	16	3	1	11,5	8,4	16,5	28	24	10	10	55	6	25		100
290450		10		3	1		10,5			24	12	12		6,05	25		100
290452		12		3	1		13			24	13	13		5,89	25		100
290454		16		3	1		17			30	16	16		6,2	20		80
290456	95	10	18	4	2	13,5	10,5	19	35	28	12	12	65	9	15		60
290458		12		4	2		13			28	13	13		8,6	15		60
290460		16		4	2		17			32	16	16		9	15		60
290462	120	10	20	4	2	15,5	10,5	21	35	32	15	16	70	11,4	20		40
290464		12		4	2		13			32	16	17		11,3	20		40
290466		16		4	2		17			32	18	19		11,25	20		40
290468		20		4	2		21			38	21	22		11	15		30
290470	150	10	22	4	2	17	10,5	23,5	35	34	15	16	78	16,4	15		30
290472		12		4	2		13			34	16	17		16,3	15		30
290474		16		4	2		17			34	19	20		16,2	15		30
290476		20		4	2		21			40	21	22		15,9	12		24
290478	185	10	25	4	2	19	10,5	25,5	40	37	15	16	82	19	12		24
290480		12		4	2		13			37	16	17		18,1	12		24
290482		16		4	2		17			37	19	20		18,75	12		24
290484		20		4	2		21			40	21	22		18,7	10		20
290486	240	12	28	5	2	21,5	13	29	40	42	16	17	92	27	8		16
290488		16		5	2		17			42	19	20		27,4	8		16
290490		20		5	2		21			45	21	22		26,9	8		16
290492	300	16	32	2	2	24,5	17	32	50	48	19	22	100	33	5		10
290494		20		2	2		21			48	22	22		33,25	5		10
290496	400	16	38	3	3	27,5	17	38,5	70	55	25	25	115	68,5	4		8
290498		20		3	3		21			55	25	25		65,4	4		8
290516	500	20	42	3	3	31	21	42	70	60	25	25	125	81,6	4		8
290518	625	20	44	3	3	34,5	21	44	80	60	25	25		79			6
290520	800	20	52	3	3	40	21	52	100	75	30	30	165	148,6			10
290522	1000	20	58	3	3	44	21	58	100	85	30	30	165	195			10

## Terminals assortement, DIN

25 terminals 6,0 mm<sup>2</sup>, Bolt M6, Art. No. 29 04 0425 terminals 6,0 mm<sup>2</sup>, Bolt M8, Art. No. 29 04 0625 terminals 10,0 mm<sup>2</sup>, Bolt M6, Art. No. 29 04 1025 terminals 10,0 mm<sup>2</sup>, Bolt M8, Art. No. 29 04 1225 terminals 16,0 mm<sup>2</sup>, Bolt M8, Art. No. 29 04 1825 terminals 16,0 mm<sup>2</sup>, Bolt M10, Art. No. 29 04 2015 terminals 25,0 mm<sup>2</sup>, Bolt M8, Art. No. 29 04 2615 terminals 25,0 mm<sup>2</sup>, Bolt M10, Art. No. 29 04 2815 terminals 35,0 mm<sup>2</sup>, Bolt M8, Art. No. 29 04 3415 terminals 35,0 mm<sup>2</sup>, Bolt M10, Art. No. 29 04 3610 terminals 50,0 mm<sup>2</sup>, Bolt M10, Art. No. 29 04 4210 terminals 50,0 mm<sup>2</sup>, Bolt M12, Art. No. 29 04 441 crimping pliers (Art. 21 08 05K), crimping range 6 - 50 mm<sup>2</sup>, hexagon crimping DIN

1 metal box 400 x 250 x 50 mm



Art. No.	weight	PU
26 20 41	7250	1

CS ..... cross section in mm<sup>2</sup>

IF ..... identification figure

height ..... in mm

length ..... in mm

M ..... bolt M in mm

plug ..... flat plug

PU ..... packing unit in pieces

weight ..... in gr.

width ..... in mm



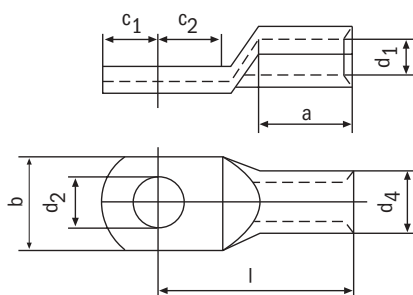
## Crimp cable lugs DIN 46235

Electrolytic copper tube 99,9 %, bright corroded

\* this dimensions are not DIN normed



Art. No.	CS	M	IF	crimps quantity		d1	d2	d4	a	b	c1	c2	l	KG/100 pc.	PU	Dealer	Box
				small	wide												
290001	6	5	5	2		3,8	5,3	5,5	10	8,5	6,5	7,5	24	0,24	100		800
290003		6		2			6,4			8,5	7,5	8		0,3	100		800
290005		8		2			8,4			13	10	10		0,35	100		800
290007	10	5	6	2		4,5	5,3	6	10	9	7	8,5	27	0,37	100		800
290011		6		2			6,4			9	7,5	8,5		0,36	100		800
290013		8		2			8,4			13	10	10		0,38	100		800
290015		10		2			10,5			15	8,2	8,2	28	0,38	100		800
290019	16	6	8	2	1	5,5	6,4	8,5	20	13	7,5	8	36	1,2	50		500
290021		8		2	1		8,4			13	10	10		1,25	50		400
290025		10		2	1		10,5			17	12	12		1,3	50		400
290027		12		2	1		13			18	13	13		1,28	50		400
290031	25	6	10	2	1	7	6,4	10	20	14	7,5	8	38	1,5	50		300
290033		8		2	1		8,4			16	10	10		1,55	50		300
290035		10		2	1		10,5			17	12	12		1,6	50		300
290037		12		2	1		13			19	13	13		1,65	50		300
290039	35	6	12	2	1	8,2	6,4	12,5	20	17	7,5	8	42	2,75	25		150
290042		8		2	1		8,4			17	10	10		2,9	25		150
290044		10		2	1		10,5			19	12	12		2,85	25		150
290049		12		2	1		13			21	13	13		2,8	25		150
290050	50	8	14	3	1	10	8,4	14,5	28	20	10	10	52	4,45	25		100
290051		10		3	1		10,5			22	12	12		4,5	25		100
290052		12		3	1		13			24	13	13		4,4	25		100
290053		16		3	1		17			28	16	16		4,6	25		100
290054	70	8	16	3	1	11,5	8,4	16,5	28	24	10	10	55	6	25		100
290055		10		3	1		10,5			24	12	12		6,05	25		100
290056		12		3	1		13			24	13	13		5,89	25		100
290057		16		3	1		17			30	16	16		6,2	20		80
290058	95	10	18	4	2	13,5	10,5	19	35	28	12	12	65	9	15		60
290059		12		4	2		13			28	13	13		8,6	15		60
290060		16		4	2		17			32	16	16		9	15		60
290061	120	10	20	4	2	15,5	10,5	21	35	32	15	16	70	11,4	20		40
290063		12		4	2		13			32	16	17		11,3	20		40
290064		16		4	2		17			32	18	19		11,25	20		40
290065		20		4	2		21			38	21	22		11	15		30
290066	150	10	22	4	2	17	10,5	23,5	35	34	15	16	78	16,4	15		30
290067		12		4	2		13			34	16	17		16,3	15		30
290068		16		4	2		17			34	19	20		16,2	15		30
290069		20		4	2		21			40	21	22		15,9	12		24
290070	185	10	25	4	2	19	10,5	25,5	40	37	15	16	82	19	12		24
290071		12		4	2		13			37	16	17		18,1	12		24
290072		16		4	2		17			37	19	20		18,75	12		24
290073		20		4	2		21			40	21	22		18,7	10		20
290074	240	12	28	5	2	21,5	13	29	40	42	16	17	92	27	8		16
290075		16		5	2		17			42	19	20		27,4	8		16
290076		20		5	2		21			45	21	22		26,9	8		16
290077	300	16	32	2	2	24,5	17	32	50	48	19	22	100	33	5		10
290078		20		2	2		21			48	22	22		33,25	5		10
290079	400	16	38	3	3	27,5	17	38,5	70	55	25	25	115	68,5	4		8
290080		20		3	3		21			55	25	25		65,4	4		8
290081	500	20	42	3	3	31	21	42	70	60	25	25	125	81,6	4		8
290082	625	20	44	3	3	34,5	21	44	80	60	25	25		79			6
290083	800	20	52	3	3	40	21	52	100	75	30	30	165	148,6			10
290084	1000	20	58	3	3	44	21	58	100	85	30	30	165	195			10



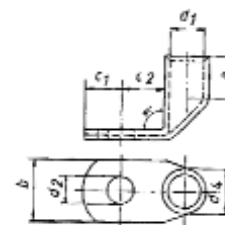
also valid for Article No.  
290404 - 290522

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## Crimping tubular angle terminals 90° DIN

Electrolytic copper tube acc. to DIN 40500, tinned

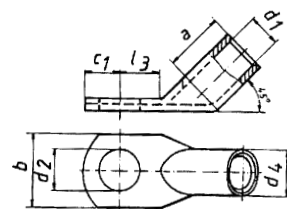


Art. No.	CS	M	IF	crimps quantity		d1	d2	d4	a	b	c1	c2	KG/100 pc.	PU
				small	wide									
291700	6	5	5	2		3,8	5,3	5,5	10	8,5	6,5	9,0	0,300	100
291702		6		2			6,4			8,5	7,5	10,0	0,300	100
291704	10	5	6	2		4,5	5,3	6	10	9,0	7,0	10,0	0,340	100
291706		6		2			6,4			9,0	7,5	10,0	0,350	100
291708		8		2			8,4			13,0	10,0	13,0	0,370	100
291710	16	6	8	2	1	5,5	6,4	8,5	20	13,0	7,5	11,0	1,200	100
291712		8		2	1		8,4			13,0	10,0	13,0	1,300	100
291714		10		2	1		10,5			17,0	12,0	15,0	1,400	100
291716		12		2	1		13,0			18,0	13,0	18,0	1,300	100
291718	25	6	10	2	1	7	6,4	10	20	14,0	7,5	11,0	1,500	100
291720		8		2	1		8,4			16,0	10,0	13,0	1,600	100
291722		10		2	1		10,5			17,0	12,0	15,0	1,600	100
291724		12		2	1		13,0			19,0	13,0	18,0	1,700	100
291726	35	8		2	1	8,2	8,4	12,5	20	17,0	10,0	13,0	2,700	100
291728		10		2	1		10,5			19,0	12,0	15,0	2,800	100
291730		12		2	1		13,0			21,0	13,0	18,0	2,800	100
291732	50	8	14	3	1	10	8,4	14,5	28	20,0	10,0	16,0	4,400	100
291734		10		3	1		10,5			22,0	12,0	16,0	4,500	100
291736		12		3	1		13,0			24,0	13,0	18,0	4,500	100
291738		16		3	1		17,0			28,0	16,0	22,0	4,600	100
291740	70	8	16	3	1	11,5	8,4	16,5	28	24,0	10,0	14,0	6,000	100
291742		10		3	1		10,5			24,0	12,0	16,0	6,300	100
291744		12		3	1		13,0			24,0	13,0	18,0	6,300	100
291746		16		3	1		17,0			30,0	16,0	22,0	6,600	100
291748	95	10	18	4	2	13,5	10,5	19	35	28,0	12,0	17,0	9,000	50
291750		12		4	2		13,0			28,0	13,0	18,0	9,300	50
291752		16		4	2		17,0			32,0	16,0	22,0	9,000	50
291754	120	10	20	4	2	15,5	10,5	21	35	32,0	15,0	17,0	10,400	50
291756		12		4	2		13,0			32,0	16,0	18,0	10,700	50
291758		16		4	2		17,0			32,0	18,0	22,0	10,700	50
291760		20		4	2		21,0			38,0	21,0	24,0	11,000	50
291762	150	10	22	4	2	17	10,5	23,5	35	34,0	15,0	17,0	14,200	50
291764		12		4	2		13,0			34,0	16,0	18,0	14,300	50
291766		16		4	2		17,0			34,0	19,0	22,0	15,200	50
291768		20		4	2		21,0			40,0	21,0	24,0	15,700	50
291770	185	10	25	4	2	19	10,5	25,5	40	37,0	15,0	22,0	18,600	50
291772		12		4	2		13,0			37,0	16,0	22,0	18,700	50
291774		16		4	2		17,0			37,0	19,0	22,0	19,000	50
291776		20		4	2		21,0			40,0	21,0	24,0	18,700	50
291778	240	12	28	5	2	21,5	13,0	29	40	42,0	16,0	22,0	25,100	50
291780		16		5	2		17,0			42,0	19,0	22,0	25,000	50
291782		20		5	2		21,0			45,0	21,0	24,0	25,300	50

## Crimping tubular angle terminals 45° DIN

Electrolytic copper tube acc. to DIN 46235, tinned

Art. No.	CS	M	IF	crimps quantity		d1	d2	d4	a	b	c1	c2	KG/100 pc.	PU
				small	wide									
291800	6	5	5	2		3,8	5,5	5,5	10	8,5	6,5	9,0	0,300	100
291802		6		2			6,4			8,5	7,5	10,0	0,300	100
291804	10	5	6	2		4,5	5,3	6	10	9,0	7,0	10,0	0,400	100
291806		6		2			6,4			9,0	7,5	10,0	0,350	100
291808		8		2			8,4			13,0	10,0	13,0	0,400	100
291810	16	6	8	2	1	5,5	6,4	8,5	20	13,0	7,5	11,0	1,200	100
291812		8		2	1		8,4			13,0	10,0	13,0	1,300	100
291814		10		2	1		10,5			17,0	12,0	15,0	1,400	100
291816		12		2	1		13,0			18,0	13,0	18,0	1,300	100
291818	25	6	10	2	1	7	6,4	10	20	14,0	7,5	11,0	1,500	100
291820		8		2	1		8,4			16,0	10,0	13,0	1,600	100
291822		10		2	1		10,5			17,0	12,0	15,0	1,600	100
291824		12		2	1		13,0			19,0	13,0	18,0	1,700	100
291826	35	8		2	1	8,2	8,4	12,5	20	17,0	10,0	13,0	2,700	100
291828		10		2	1		10,5			19,0	12,0	15,0	2,800	100
291830		12		2	1		13,0			21,0	13,0	18,0	2,800	100
291832	50	8	14	3	1	10	8,4	14,5	28	20,0	10,0	16,0	4,400	100
291834		10		3	1		10,5			22,0	12,0	16,0	4,500	100
291836		12		3	1		13,0			24,0	13,0	18,0	4,500	100
291838		16		3	1		17,0			28,0	16,0	22,0	4,600	100
291840	70	8	16	3	1	11,5	8,4	16,5	28	24,0	10,0	14,0	6,000	100
291842		10		3	1		10,5			24,0	12,0	16,0	6,300	100
291844		12		3	1		13,0			24,0	13,0	18,0	6,300	100
291846		16		3	1		17,0			30,0	16,0	22,0	6,600	100
291848	95	10	18	4	2	13,5	10,5	19	35	28,0	12,0	17,0	9,000	50
291850		12		4	2		13,0			28,0	13,0	18,0	9,300	50
291852		16		4	2		17,0			32,0	16,0	22,0	9,000	50
291854	120	10	20	4	2	15,5	10,5	21	35	32,0	15,0	17,0	10,400	50
291856		12		4	2		13,0			32,0	16,0	18,0	10,700	50
291858		16		4	2		17,0			32,0	18,0	22,0	10,700	50
291860		20		4	2		21,0			38,0	21,0	24,0	11,000	50
291862	150	10	22	4	2	17	10,5	23,5	35	34,0	15,0	17,0	14,200	50
291864		12		4	2		13,0			34,0	16,0	18,0	14,300	50
291866		16		4	2		17,0			34,0	19,0	22,0	15,200	50
291868		20		4	2		21,0			40,0	21,0	24,0	15,700	50
291870	185	10	25	4	2	19	10,5	25,5	40	37,0	15,0	22,0	18,600	50
291872		12		4	2		13,0			37,0	16,0	22,0	18,700	50
291874		16		4	2		17,0			37,0	19,0	22,0	19,000	50
291876		20		4	2		21,0			40,0	21,0	24,0	18,700	50
291878	240	12	28	5	2	21,5	13,0	29	40	42,0	16,0	22,0	25,100	50
291880		16		5	2		17,0			42,0	19,0	22,0	25,000	50
291882		20		5	2		21,0			45,0	21,0	24,0	25,300	50



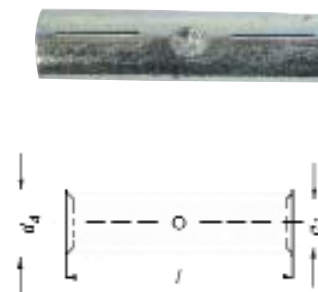
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## Connectors DIN 46267 part 1/ Butt connectors

99,9% Electrolytic copper tube acc. to DIN 40500, tinned

Art. No.	CS	IF	crimps quantity		d1	d4	l	KG/100 pc.	PU	Dealer Box
			small	wide						
29 15 21	6	5	2		3,8	5,5	30	0,300	100	1600
29 15 23	10	6	2		4,5	6	30	0,350	100	1000
29 15 25	16	8	2	1	5,5	8,5	50	1,450	50	300
29 15 27	25	10	2	1	7	10	50	1,800	50	300
29 15 29	35	12	2	1	8,2	12,5	50	2,900	50	200
29 15 31	50	14	3	1	10	14,5	56	4,300	25	100
29 15 33	70	16	3	1	11,5	16,5	56	5,400	25	100
29 15 35	95	18	4	2	13,5	19	70	8,600	25	50
29 15 37	120	20	4	2	15,5	21	70	9,700	25	50
29 15 39	150	22	4	2	17	23,5	80	14,500	15	30
29 15 41	185	25	4	2	19	25,5	85	17,000	5	30
29 15 43	240	28	5	2	21,5	29	90	23,400	5	20
29 15 45	300	32	2	2	24,5	32	100	29,250	5	10
29 15 47	400	38		3	27,5	38,5	150	74,300	3	6
29 15 49	500	42		3	31	42	160	89,000		8
29 15 51	625	44		3	34,5	44	160	79,000		6
29 15 53	800	52		3	40	52	200	151,000		6
29 15 55	1000	58		3	44	58	200	198,000		6



## Crimp type tubular connectors DIN 46341 part 1, form B/ Butt connectors

99,9% Electrolytic copper tube, tinned

Art. No.	CS	length	weight	PU
29 11 20	1,5 - 2,5	15	100	100
29 11 24	4 - 6	15	190	100
29 11 26	10	21	380	100
29 11 28	16	26	580	100
29 11 30	25	29	1120	100
29 11 32	35	32	1500	100
29 11 34	50	48	2500	100



## Connectors DIN 46267 part 1/ Butt connectors

99,9% Electrolytic copper tube acc. DIN 40500, bright

Art. No.	CS	d1	L	IF	weight	PU
29 15 20	6	6	30	5	280	100
29 15 22	10	4,5	30	6	400	100
29 15 24	16	5,5	50	8	1500	100
29 15 26	25	7	50	10	2200	100
29 15 28	35	8,3	50	12	3000	100
29 15 30	50	10	55	14	4300	50
29 15 32	70	11,5	55	16	5560	50
29 15 34	95	13,5	70	18	9060	50
29 15 36	120	15,5	70	20	10600	25
29 15 38	150	17	80	22	15040	25
29 15 40	185	19	85	25	17050	25
29 15 42	240	21,5	90	28	24700	-
29 15 44	300	24,1	100	32	31900	-
29 15 46	400	27,5	150	38	77250	-
29 15 48	500	31	160	42	92700	-
29 15 50	625	35	160	44	94800	-
29 15 52	800	40	200	52	155000	-
29 15 54	1000	44	200	58	196000	-



CS ..... cross section in mm<sup>2</sup>  
IF ..... identification figure  
height ..... in mm

length ..... in mm  
M ..... bolt M in mm  
plug ..... flat plug

PU ..... packing unit in pieces  
weight ..... in gr.  
width ..... in mm

## Connectors DIN 48085, part 1

for guaranteeing tensile strength connections, for overhead lines, 99,9% Electrolytic copper tube acc. DIN 48085, part 1, bright

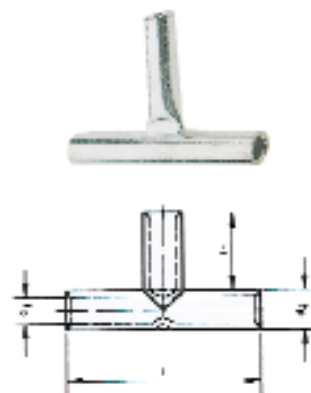
Art. No.	CS	Ø	d1	d2	L	Pr. mech.	Pr. hy.	IF	weight	PU
29 14 40	6	3	3,5	6,5	65	4/4		6	135	100
29 14 42	10	4,05	4,5	8,5	80	5/5		8	300	100
29 14 44	16	5,1	5,5	8,5	80	5/5		8	280	100
29 14 46	25	6,3	7	10	80	5/5		10	340	100
29 14 48	35	7,5	8,5	12,5	95	5/5		12	560	100
29 14 50	50	9	10	14,5	95	5/5		14	850	100
29 14 52	70	10,5	11,5	16,5	95	5/5		16	1080	100
29 14 54	95	12,5	13,5	21	145	8/8	4/4	20	2620	50
29 14 56	120	14	15	23,5	160	8/8	4/4	22	3640	50
29 14 58	150	15,7	16,5	25,5	180	8/8	4/4	25	4750	50
29 14 60	185	17,5	18,5	31,5	260		5/5	32	11800	50
29 14 62	240	20,2	21	34,5	310		6/6	34	16300	50
29 14 64	300	22,5	23,5	38,5	360		7/7	38	23500	50



## T-connectors

99,9% Electrolytic copper tube acc. to DIN 40500, tinned galvanised

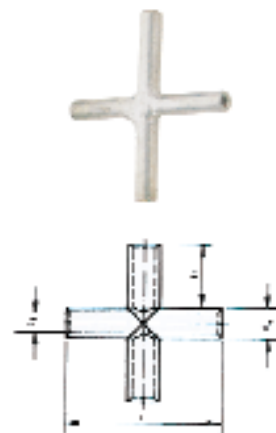
Art. No.	CS	d1	d4	L	L1	weight	PU
29 13 30	1,5	1,9	3,9	30	12	230	100
29 13 32	2,5	2,4	4,4	30	12	370	100
29 13 34	4	3	5	30	12	480	100
29 13 36	6	3,7	5,5	35	14	700	25
29 13 38	10	4,3	6,7	35	14	1000	25
29 13 40	16	5,4	7,8	50	21	2200	25
29 13 42	25	6,9	9,4	55	23	2950	25
29 13 44	35	8,3	11,3	70	30	5200	25
29 13 48	50	9,6	13,1	80	34	7900	25
29 13 50	70	11,5	15,3	85	35	11200	25
29 13 52	95	13,5	17,5	90	36	13000	25
29 13 54	120	15,5	20	95	38	14500	10
29 13 56	150	16,8	21,3	110	44	18900	10
29 13 58	185	19	24	115	45	25000	10
29 13 60	240	21	26	130	52	31100	10



## X-connectors

99,9% Electrolytic copper tube acc. to DIN 40500, tinned galvanised

Art. No.	CS	d1	d2	L	L1	weight	PU
29 13 70	1,5	1,9	3,9	30	12	230	100
29 13 72	2,5	2,4	4,4	30	12	370	100
29 13 74	4	3	5	30	12	480	100
29 13 76	6	3,7	5,5	35	14	700	25
29 13 78	10	4,3	6,7	35	14	1000	25
29 13 80	16	5,4	7,8	50	21	2200	25
29 13 82	25	6,9	9,4	55	23	2950	25
29 13 84	35	8,3	11,3	70	30	5200	25
29 13 86	50	9,6	13,1	80	34	7900	25
29 13 88	70	11,5	15,3	85	35	11200	25
29 13 90	95	13,5	17,5	90	36	13000	25
29 13 92	120	15,5	20	95	38	14500	10
29 13 94	150	16,8	21,3	110	44	18900	10
29 13 96	185	19	24	115	45	25000	10
29 13 98	240	21	26	130	52	31100	10

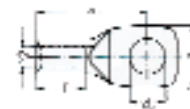


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**Terminals, type ring, clean nickel****Nickel**permanence of temperature **500° C**

Art. No.	CS	M	d1	d2	b	l	a	weight	PU
29 25 60	0,5 - 1	4	1,6	4,3	6,5	13	6	80	100
29 25 62		5	1,6	5,3	7,5	14	6	80	100
29 25 64	1,5 - 2,5	4	2,3	4,3	7	13	6	105	100
29 25 66		5	2,3	5,3	8,5	14	6	105	100
29 25 68		6	2,3	6,5	9,5	16	6	130	100
29 25 70	4,0 - 6,0	4	3,6	4,3	8,5	18	8	275	100
29 25 72		5	3,6	5,3	9,5	19	8	275	100
29 25 74		6	3,6	6,5	9,5	19	8	270	100

**Terminals, type fork, clean nickel****Nickel**permanence of temperature **500° C**

Art. No.	CS	M	d1	d2	b	l	a	weight	PU
29 25 80	0,5 - 1	4	1,6	4,3	6,5	13	6	80	100
29 25 82		5	1,6	5,3	7,5	14	6	80	100
29 25 84	1,5 - 2,5	4	2,3	4,3	7	13	6	105	100
29 25 86		5	2,3	5,3	8,5	14	6	105	100
29 25 88		6	2,3	6,5	9,5	16	6	130	100
29 25 90	4,0 - 6,0	4	3,6	4,3	8,5	18	8	275	100
29 25 92		5	3,6	5,3	9,5	19	8	275	100
29 25 94		6	3,6	6,5	9,5	19	8	270	100

**Butt space connectors, clean nickel****Nickel**permanence of temperature **500° C**

Art. No.	CS	d1	L	weight	PU
29 25 96	0,5 - 1	1,6	15	115	100
29 25 98	1,5 - 2,5	2,3	15	150	100
29 26 00	4 - 6	3,6	15	280	100

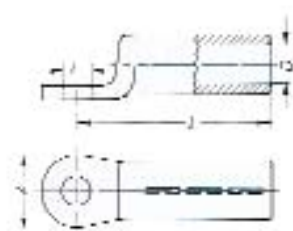


## Al-crimping terminals DIN 46329

Aluminium

for Al conductor to DIN 48201, hexagon crimping  
aluminium 99,5%, production process: extruded, embossed, surface bright

Art. No.	CS mm <sup>2</sup>		FL	E	L	A	D Ø	IF	crimps quantity		kg/100 pc.
	RM/SM	SE							small	wide	
29 27 70	35	50	10	10,5	62		8	14	5	3	2,25
29 27 72	35	50	12	13	62		8	14	5	3	2,20
29 27 74	50	70	10	10,5	62		9,8	16	5	3	2,70
29 27 76	50	70	12	13	62		9,8	16	5	3	2,60
29 27 78	70	95	10	10,5	72		11,2	18	6	3	4,10
29 27 80	70	95	12	13	72		11,2	18	6	3	4,00
29 27 82	95	120	10	10,5	75		13,2	22	6	3	6,70
29 27 84	95	120	12	13	75		13,2	22	6	3	6,50
29 27 86	120	150	12	13	80	30	14,7	22	6	3	6,40
29 27 88	120	150	16	17	80	30	14,7	22	6	3	6,30
29 27 90	150	185	10	10,5	90	30	16,3	25	7	3	8,00
29 27 92	150	185	12	13	90	30	16,3	25	7	3	7,80
29 27 94	150	185	16	17	90	30	16,3	25	7	3	7,70
29 27 96	185	240	10	10,5	91	30	18,3	28	7	3	11,30
29 27 98	185	240	12	13	91	30	18,3	28	7	3	10,60
29 28 00	185	240	16	17	91	30	18,3	28	7	3	9,80
29 28 02	240	300	12	13	103	38	21	32	8	3	16,20
29 28 04	240	300	16	17	103	38	21	32	8	3	15,50
29 28 06	240	300	20	21	103	38	21	32	8	3	14,70
29 28 08	300	-	12	13	103	38	23,3	34	8	3	18,00
29 28 10	300	-	16	17	103	38	23,3	34	8	3	17,60
29 28 12	300	-	20	21	103	38	23,3	34	8	3	17,30
29 28 14	400	-	12	13	116	38	26	38	-	4	40,80
29 28 16	400	-	16	17	116	38	26	38	-	4	40,40
29 28 18	400	-	20	21	116	38	26	38	-	4	40,00
29 28 20	500	-	12	13	122	44	29	44	-	4	43,60
29 28 22	500	-	16	17	155	44	29	44	-	4	43,20

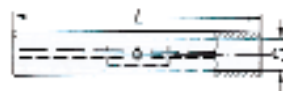


## Al-crimping terminals DIN 46341, part 2

Aluminium

for exonerated connections DIN 48201, page 5, aluminium 99,5%, bright

Art. No.	CS mm <sup>2</sup>		D	L	crimps quantity		weight	PU
	RM/SM	SE			small	wide		
29 35 42	25	35	6,8	70	4/4	2/2	1500	100
29 35 44	35	50	8	85	5/5	2/2	2250	100
29 35 46	50	70	9,8	85	5/5	2/2	2950	50
29 35 48	70	95	11,2	105	6/6	3/3	5000	50
29 35 50	95	120	13,2	105	6/6	3/3	8200	25
29 35 52	120	150	14,7	105	6/6	3/3	8700	25
29 35 54	150	185	16,3	125	6/6	3/3	11800	25
29 35 56	185	240	18,3	125	6/6	3/3	13100	20
29 35 58	240	300	20,0	145	8/8	3/3	20600	15



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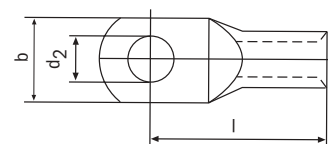
## Al-terminals DIN

Aluminium

for Al conductor to DIN 48201, hexagon crimping

Al 99,5 %, production process: extruded, embossed. surface bright

Art.-Nr.	CS (mm²)	M	IF	crimps quantity		d1	d2	b	l	KG/100 pc.
				small	wide					
292904	16	8	12	4	2	5,8	8,5	18,0	52	1,400
292906		10					10,5	18,0		1,400
292908	25	8	12	4	2	6,8	8,5	18,0	60	1,400
292910		10					10,5	18,0		1,500
292912	35	10	14	5	2	8	10,5	21,0	67	2,100
292914		12					13,0	21,0		2,100
292916	50	10	16	5	2	9,8	10,5	25,0	72	2,700
292918		12					13,0	25,0		2,750
292920	70	10	18	6	3	11,2	10,5	28,0	86	4,400
292922		12					13,0	28,0		4,300
292924	95	10	22	6	3	13,2	10,5	32,0	90	7,400
292926		12					13,0	32,0		7,500
292928		16					17,0	34,0		7,300
292930	120	12	22	6	3	14,7	13,0	32,0	91	6,700
292932		16					17,0	34,0		6,400
292934	150	12	25	6	3	16,3	13,0	35,0	103	9,600
292936		16					17,0	35,0		9,200
292938		20					21,0	41,0		9,400
292940	185	12	28	6	3	18,3	13,0	40,0	106	12,600
292942		16					17,0	40,0		12,000
292944		20					21,0	40,0		13,100
292946	240	12	32	8	3	21	13,0	45,0	116	18,300
292948		16					17,0	45,0		17,600
292950		20					21,0	45,0		17,300



## Al- and Cu- crimping terminals

**Aluminium**  
**Copper**

for strain-relieved connections of Al and Cu conductors, for Al ropes acc. DIN 48201,  
Al 99,5% DIN 40501, E-Cu DIN 40500, surface bright

Art. No.	Al		Cu		IF Cu	IF Al	L	weight	PU	
	RM/SM	SE	RM/SM	Al						Cu
29 35 70	25	35	10	6,8	4,5	12	6	55	1400	10
29 35 72	25	35	16	6,8	5,5	12	8	61	1650	10
29 35 74	25	35	25	6,8	7,0	12	10	61	1900	10
29 35 76	25	35	50	6,8	10,0	12	12	72	3500	10
29 35 78	25/4	35re	16	7,6	5,5	12	8	61	1600	10
29 35 80	25/4	35re	25	7,6	7,0	12	10	61	1850	10
29 35 82	35	50	16	8	5,5	14	8	71	2500	10
29 35 84	35	50	25	8	7,0	14	10	71	2650	10
29 35 86	35	50	35	8	8,2	14	12	71	3300	10
29 35 88	35	50	50	8	10	14	14	80	3530	10
29 35 90	35/6	50re	16	9	5,5	14	8	71	2450	10
29 35 92	35/6	50re	25	9	7,0	14	10	71	2600	10
29 35 94	35/6	50re	35	9	8,2	14	12	71	3250	10
29 35 96	50	70	16	9,8	5,5	16	8	71,5	2850	10
29 35 98	50	70	25	9,8	7,0	16	10	71,5	3200	10
29 36 00	50	70	35	9,8	8,2	16	12	71,5	3800	10
29 36 02	50	70	50	9,8	10	16	14	77,5	4550	10
29 36 04	70	95	16	11,2	5,5	18	8	79	4100	10
29 36 06	70	95	25	11,2	7,0	18	10	79	3950	10
29 36 08	70	95	35	11,2	8,2	18	12	79	4900	10
29 36 10	70	95	50	11,2	10	18	14	85	5700	10
29 36 12	70	95	70	11,2	11,5	18	16	86	7250	10
29 36 14	70	95	95	11,2	13,5	18	18	95	9360	10
29 36 16	70	95	120	11,2	15,5	18	20	99	10540	10
29 36 18	95	120	16	13,2	5,5	22	8	79	6150	10
29 36 20	95	120	25	13,2	7,0	22	10	79	6300	10
29 36 22	95	120	35	13,2	8,2	22	12	79	6800	10
29 36 24	95	120	50	13,2	10	22	14	85	8050	10
29 36 26	95	120	70	13,2	11,5	22	16	87	8200	10
29 36 28	95	120	95	13,2	13,5	22	18	95	10350	10
29 36 30	95	120	120	13,2	15,5	22	20	95	11550	10
29 36 32	120	150	35	14,7	8,2	22	12	81	7600	10
29 36 34	120	150	50	14,7	10	22	14	87	7900	10
29 36 36	120	150	70	14,7	11,5	22	16	89	8500	10
29 36 38	120	150	95	14,7	13,5	22	18	97	11000	10
29 36 40	120	150	120	14,7	15,5	22	20	97	11900	10
29 36 42	150	185	16	16,3	5,5	25	8	91,5	7800	10
29 36 44	150	185	25	16,3	7,0	25	10	91,5	8000	10
29 36 46	150	185	35	16,3	8,2	25	12	91,5	8400	10
29 36 48	150	185	50	16,3	10	25	14	98,5	10200	10
29 36 50	150	185	70	16,3	11,5	25	16	99,5	10350	10
29 36 52	150	185	95	16,3	13,5	25	18	107,5	12650	10
29 36 54	150	185	120	16,3	15,5	25	20	107,5	13900	10
29 36 56	150	185	150	16,3	17,5	25	22	112,5	16700	10
29 36 58	185	240	50	18,3	10	28	24	99	12100	10
29 36 60	185	240	70	18,3	11,5	28	26	100	13000	10
29 36 62	185	240	95	18,3	13,5	28	28	108	14450	10
29 36 66	185	240	150	18,3	17	28	32	113	19550	10
29 36 68	185	240	185	18,3	19	28	36	116	21000	10
29 36 70	240	300	50	21,0	10	32	24	110	16500	10
29 36 72	240	300	70	21,0	11,5	32	26	111	18600	10
29 36 74	240	300	95	21,0	13,5	32	28	119	19000	10
29 36 76	240	300	120	21,0	15,5	32	30	119	20500	10
29 36 78	240	300	150	21,0	17	32	32	124	23300	10
29 36 80	240	300	185	21,0	19	32	34	127	25500	10
29 36 82	240	300	240	21,0	21,5	32	36	128	30100	10
29 36 84	300	-	120	23,3	15,5	34	20	119	27800	10
29 36 86	300	-	150	23,3	17	34	22	124	31100	10
29 36 88	300	-	185	23,3	19	34	24	128	32700	10
29 36 90	300	-	240	23,3	21,5	34	26	128	37500	10
29 36 92	300	-	300	23,3	24,5	34	30	134	47000	10



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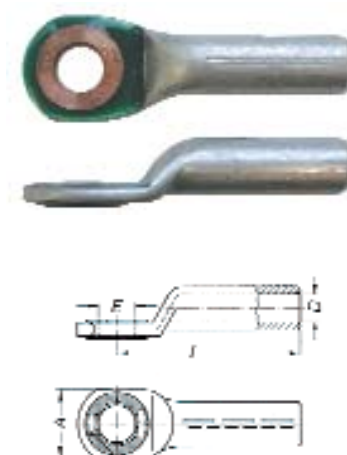
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## Al- and Cu- crimping terminals

Aluminium  
Copper

for Al acc. DIN 48201, hexagon crimping;  
Al 99,5%, DIN 40501, E-Cu DIN 40500, surface bright

Art. No.	CS mm <sup>2</sup>							crimps quantity			PU
	RM/SM	SE	M	D	E	A	L	small	wide	weight	
29 39 10	16	25	8	6,8	8,5	22	60,5	4	2	2000	100
29 39 12	25	35	10	6,8	10,5	25	60,5	4	2	2100	100
29 39 14	35	50	10	8	10,5	26	67	5	3	3100	100
29 39 16		50	12	8	13	30	67	5	3	3100	100
29 39 18	50	70	10	10	10,5	27	70,5	5	3	3600	50
29 39 20		70	12	10	13	30	70,5	5	3	3800	50
29 39 22	70	95	10	11,5	10,5	29	81	6	3	5600	50
29 39 24		95	12	11,5	13	32	81	6	3	5700	50
29 39 28	95	120	12	13,5	13	35	93,5	6	3	9500	25
29 39 30		120	16	13,5	17	38	93,5	6	3	10000	25
29 39 32	120	150	12	15	13	35	91	6	3	8700	25
29 39 34		150	16	15	17	38	91	6	3	8800	25
29 39 36	150	185	12	16,5	13	35	108,5	6	3	12200	25
29 39 38		185	16	16,5	17	41	108,5	6	3	12300	25
29 39 40		185	20	16,5	21	44	108,5	6	3	12800	25
29 39 42	185	240	12	18,5	13	40	104	7	3	15000	20
29 39 44		240	16	18,5	17	42	106	7	3	15500	20
29 39 46		240	20	18,5	21	46	104	7	3	15500	20
29 39 48	240	300	12	21,5	13	45	115	7	3	20000	15
29 39 50		300	16	21,5	17	45	115	7	3	21000	15
29 39 52		300	20	21,5	21	49	115	7	3	22000	15
29 39 54	300		16	24,5	17	51	121	7	3	34000	10
29 39 56			20	24,5	21	51	121	7	3	35000	10

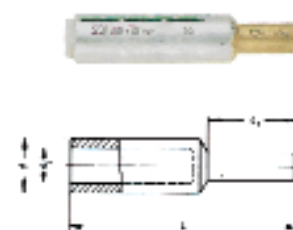


## Al-crimping terminals with Cu-bolts

Aluminium  
Copper

Al 99,5%, DIN 40501, E-Cu DIN 40500, surface bright

CS mm²										
Art. No.	RM/SM	SE	Ø Bo	Ø Se	d Ø	d1 Ø	L1	L	weight	PU
29 39 60	25	35	6	6,3	12	6,8	20	58	1600	10
29 39 62	35	50	7	7,5	14	8	22	71	2500	10
29 39 64	50	70	8	9	16	10	25	74	3300	10
29 39 66	70	95	10	10,5	18,5	11,5	30	87	5400	10
29 39 68	95	120	12	12,5	23	13,5	33	91	8700	10
29 39 70	120	150	12	14	23	15	38	97	9000	10
29 39 72	150	185	12	15,8	25,5	16,5	38	108	10900	10
29 39 74	185	240	14	17,5	28,5	18,5	44	116	15700	10
29 39 76	240	300	16	20,3	32,5	21,5	44	128	21800	10
29 39 78	300	-	18	22,5	34,5	23,5	46	131	26700	10

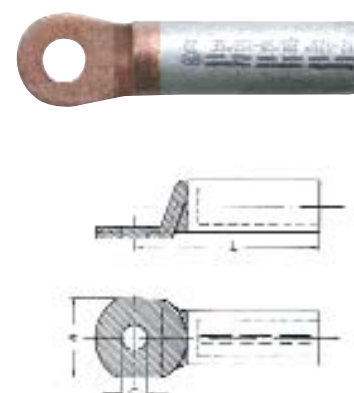


## Al- and Cu- crimping terminals

Aluminium  
Copper

for Al conductor to DIN 48201, hexagon crimping.  
Al 99,5 %, DIN 40501, E-Cu DIN 40500, surface bright.  
Solid conductors have to be crimped with mechanical handplier only. Sector conductors have to be rounded first.

Art. No.	CS mm <sup>2</sup>							crimps quantity			kg/100 pc.
	RM/SM	SE	FL	E	L	A	D Ø	IF	small	wide	
29 33 00	25	-	8	8,4	61	23	6,8	12	4	2	3,20
29 33 02		-	10	10,5	61	23	6,8	12	4	2	3,10
29 33 04		-	12	13	61	23	6,8	12	4	2	3,00
29 33 06	35	50	10	10,5	71	23	8	14	5	3	3,80
29 33 08		50	12	13	71	23	8	14	5	3	3,60
29 33 10	50	70	10	10,5	72	23	9,8	16	5	3	4,30
29 33 12		70	12	13	72	23	9,8	16	5	3	4,10
29 33 14	70	95	10	10,5	82	26	11,2	18	6	3	5,30
29 33 16		95	12	13	82	26	11,2	18	6	3	5,10
29 33 18	95	120	12	13	85	30	13,2	22	6	3	9,90
29 33 20		120	16	17	85	30	13,2	22	6	3	10,50
29 33 22	120	150	12	13	87	30	14,7	22	6	3	10,60
29 33 24		150	16	17	87	30	14,7	22	6	3	10,00
29 33 26	150	185	12	13	104	36	16,3	25	7	3	16,20
29 33 28		185	16	17	104	36	16,3	25	7	3	15,70
29 33 30	185	240	12	13	105	36	18,3	28	7	3	21,80
29 33 32		240	16	17	105	36	18,3	28	7	3	21,40
29 33 34	240	300	12	13	120	36	21	32	8	3	29,80
29 33 36		300	16	17	120	36	21	32	8	3	29,80



CS ..... cross section in mm<sup>2</sup>  
IF ..... identification figure  
height ..... in mm

length ..... in mm  
M ..... bolt M in mm  
plug ..... flat plug

PU ..... packing unit in pieces  
weight ..... in gr.  
width ..... in mm

## Consumable items

### Pliers for Insulated terminals

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,25 - 2,5	21 08 45			24
0,25 - 6,0	21 08 02			24
	21 07 61			24
0,5 - 0,6	21 08 08			24
	21 08 14			24
10,0 - 16	21 08 27			24
		21 50 00		34
10,0 - 35		21 51 00		36

### Pliers for end sleeves, tinned and insulated

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,08 - 6	21 08 00			23
0,08 - 6/10	21 08 19			23
0,14 - 2,5	21 16 50			22
0,14 - 6	21 09 79			23
0,25 - 6	21 08 41			22
0,5 - 4	21 07 63			22
0,5 - 10	21 09 79 A			23
0,75 - 10	21 08 04			23
4,0 - 10	21 08 42			22
6,0 - 16	21 07 65			22
	21 16 52			22
10,0 - 16	21 09 79 B			23
6,0 - 35		21 50 00		34
6,0 - 95		21 51 00		36
10,0 - 25	21 16 72			22
10,0 - 35	21 07 68			22
10,0 - 50	21 07 88			23
10,0 - 95		21 08 56		32
16,0 - 95			21 58 00	46
16,0 - 185		21 52 00		38
25,0 - 50	21 16 74			22
50,0 - 95	21 07 89			23
50,0 - 150			21 66 00	48
			21 65 00	50

### Pliers for uninsulated terminals

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,1 - 10	21 08 10			25
0,5 - 16	21 07 99			25
0,75 - 2,5	21 07 78			25
0,75 - 6	21 08 06			25
	21 08 08			24
1,25 - 6	21 07 79			25
1,0 - 16	21 07 72			25
	21 07 74			25
1,5 - 10	21 07 64			25

### Pliers for brass sleeves

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,1 - 1	21 16 66			26
0,14 - 1	21 08 23			26
	21 08 33			26
0,14 - 1,5	21 16 68			26
0,25 - 6	21 07 62			26
0,5 - 1	21 07 85			26
0,5 - 1,5	21 07 77			26
0,5 - 2,5	21 16 82			26
	21 16 64			26
1,5 - 2,5	21 07 86			26

## Consumable items

### Pliers for coaxial connectors

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
RG 58-59-62	21 07 67			27
RG 58-59-62-71	21 08 49			27
RG 55-58-59-62	21 16 80			27

### Pliers for modular Plugs

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
4-polig	21 09 71			28
4-polig	21 08 67			28
6-polig	21 09 73			28
6-polig	21 08 65			28
8-polig	21 09 81			28
8-polig	21 08 69			28
8-polig	21 30 51			29
8-polig	21 30 52			29
8-polig	21 30 54			29
6 und 8-polig	21 08 57			28
4 bis 8-polig	21 08 71			28
	21 30 50			28
4 bis 10-polig	21 30 00			28
	21 30 20			29
	21 30 70			29

### Pliers for tube terminals

CS	Crimping pliers	mechan. tools	pneum. hydraul. tools	Catalogue-page
0,75 - 16	21 08 30			31
6,0 - 50	21 08 05			31
	21 08 05/K (DIN)			31
		21 50 00		34
	21 08 34			31
6,0 - 120		21 51 00		36
6,0 - 185	21 08 56			32
10 - 120	21 07 91			31
	21 08 50			31
	21 08 53 DIN			31
10 - 240	21 52 00			38
			21 55 86	44
			21 57 55	44
			21 57 60	44
			21 58 00	46
10 - 300			21 60 04	48
			21 61 24	48
			21 66 00	48
			21 65 00	50
			21 59 46	50
			21 59 80	50
			21 66 60	46
16 - 300				40
10 - 400		21 53 00		40
50 - 120	21 08 36			31
95 - 630			21 62 36	52
			21 62 50	52
120 - 240	21 08 38			31
120 - 1000			21 63 02	53
185 - 400	21 08 40			31



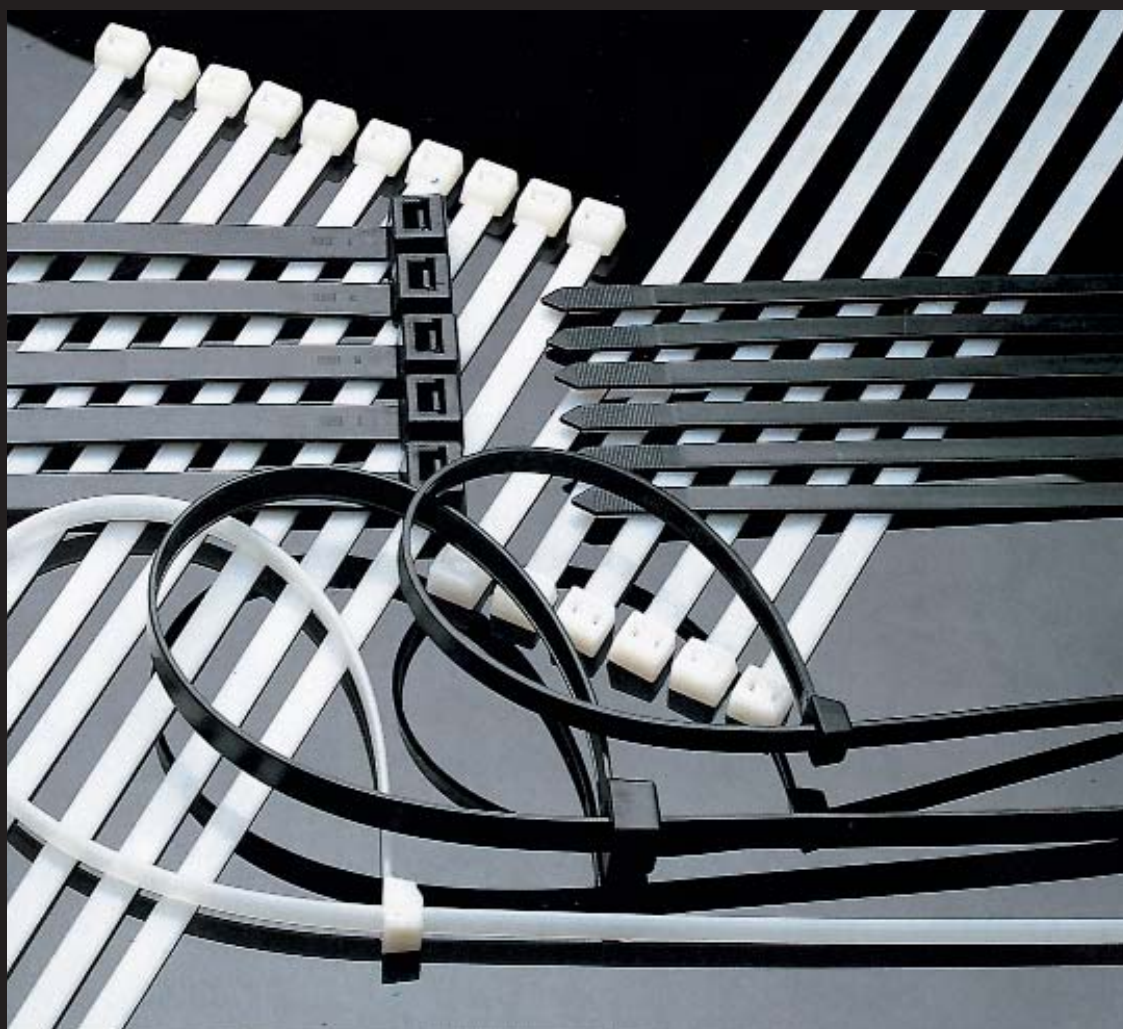
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## **Consumable items**

Cable ties  
Tensioning tools  
Heat shrinkable tubes





## Cable ties

material: nylo, colour natural, quick and simple to fix by hand or with tensioning tools, extremely resistant to sea water, oil, grease, etc., manufactured in accordance with UL and MIL specification requirements, - 40° C bis 85° C



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 25 00	96	2,5	23	8	290	100/	30000
26 25 02	100	2,5	25	8	310	100/	25000
26 25 04	142	2,5	35	8	480	100/	25000
26 25 06	203	2,5	55	8	700	100/	13000
26 25 08	142	3,2	35	18	480	100/	10000
26 25 10	292	3,6	85	18	750	100/	7000
26 25 12	190	4,8	52	22	100	100/	8000
26 25 16	203	4,6	55	22	150	100/	7000
26 25 18	250	4,8	74	22	200	100/	6000
26 25 20	310	4,8	89	22	200	100/	5000
26 25 22	368	4,8	102	22	250	100/	4000
26 25 28	203	7,6	55	55	300	100/	2000
26 25 30	280	7,6	78	55	400	100/	2000
26 25 32	380	7,6	110	55	500	100/	2500
26 25 36	450	8,0	133	80	350	50/	500
26 25 38	610	9,0	185	80	500	50/	500
26 25 40	812	9,0	246	80	300	20/	500
26 25 42	914	9,0	270	80	800	50/	500
26 25 46	550	12,7	166	114	1000	50/	500

## Cable ties

material: polyamide 6,6 - colour natural, resistant to mildew and rotting, extremely resistant to sea water, oil, grease, hydrocarbons and hydraulic fluids, operating temperature: -40° to +85° C, these binders meet the requirements of the military specification Mil-Spec. 23 190C (WEP) MS-3367, UL 94 V2



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 21 00	100	2,5	25	8	310	100/	25000
26 21 02	142	3,2	35	18	100	100/	10000
26 21 01	203	3,6	55	18	50	100/	10000
26 21 06	203	4,6	55	22	150	100/	7000
26 21 08	310	4,8	89	22	250	100/	5000
26 21 10	368	4,8	102	22	250	100/	4000
26 21 14	380	7,6	110	55	290	50/	2000
26 21 16	550	12,7	166	114	1000	50/	500

## Cable ties

material: polyamide 6,6 - colour black, all other data and properties like No. 26 21 00-16, resistant to sea water, oil, grease, etc., not UV-resistant



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 21 20	100	2,5	25	8	300	100/	25000
26 21 22	142	3,2	35	18	300	100/	10000
26 21 24	203	3,6	55	18	100	100/	10000
26 21 26	203	4,6	55	22	170	100/	6000
26 21 28	310	4,8	89	22	250	100/	5000
26 21 30	368	4,8	102	22	400	100/	4000
26 21 32	280	7,6	78	55	400	100/	2000
26 21 34	380	7,6	110	55	250	50/	2000
26 21 36	550	12,7	166	114	750	50/	500

## Cable ties

material: nylon - colour black, all other data and properties like No. 26 25 00-46, weather- and UV-resistant



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 26 00	96	2,5	23	8	290	100/	30000
26 26 02	100	2,5	25	8	310	100/	25000
26 26 04	142	2,5	35	8	480	100/	20000
26 26 06	203	2,5	55	8	670	100/	10000
26 26 08	142	3,2	35	18	720	100/	10000
26 26 10	292	3,6	85	18	150	100/	7000
26 26 16	203	4,6	52	22	150	100/	6000
26 26 18	250	4,8	74	22	150	100/	6000
26 26 20	310	4,8	89	22	200	100/	5000
26 26 22	368	4,8	102	22	250	100/	4000
26 26 28	203	7,6	55	55	300	100/	2000
26 26 30	280	7,6	78	55	400	100/	2000
26 26 32	380	7,6	110	55	500	100/	2500
26 26 36	450	8,0	133	80	350	50/	500
26 26 38	610	9,0	185	80	500	50/	500
26 26 40	812	9,0	246	80	300	20/	500
26 26 42	914	9,0	270	80	800	50/	500
26 26 46	550	12,7	166	114	1000	50/	500

## Cable ties

material: nylon - colour natural, all other data and properties like No. 26 25 00-46, big packing unit 1000 pcs.



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 25 01	96	2,5	23	8	290	1000/	30000
26 25 03	100	2,5	25	8	310	1000/	25000
26 25 05	142	2,5	35	8	480	1000/	10000
26 25 07	203	2,5	55	8	300	1000/	10000
26 25 09	142	3,2	35	18	650	1000/	10000
26 25 11	292	3,6	85	18	800	1000/	8000
26 25 17	203	4,6	55	22	1400	1000/	10000
26 25 13	190	4,8	50	22	1450	1000/	8000

## Cable ties

material: nylon - colour black, all other data and properties like No. 26 26 00-46, big packing unit 1000 pcs.



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 26 01	96	2,5	23	8	300	1000/	30000
26 26 09	142	3,2	35	18	700	1000/	10000

## Releasable cable ties

for temporary wiring and sub-assembly

material: polyamide 6,6 - colour black, operation temperature: -40° to +85° C



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 21 40	150	7,6	35	22	150	100/	5000
26 21 42	200	7,6	50	22	200	100/	5000
26 21 44	300	7,6	80	22	350	100/	5000

Ct max. .... cable tie max in mm  
height ..... in mm  
length ..... in mm

PU ..... packing unit in pieces  
SR ..... shrinking range in mm  
th ..... thickness of wall after shrinking mm

TS ..... tensile strength  
tot. length ..... total length in mm  
weight ..... in gr.

width ..... in mm  
wot ..... width of tape in mm

## Double-locking-cable ties

material: nylon - colour black, (26 27 10 Nylon 12)



Art. No.	length	width	Ct max.	TS kg	weight	PU	PU
26 27 00	180	9,0	45	55	8	100/	500
26 27 02	300	9,0	88	55	100	100/	500
26 27 04	360	9,0	100	55	100	100/	500
26 27 10	300	9,0	88	55	100	100/	500

## Tensioning tools for Cable ties

The built-in knife will cut only, when the requested tension has been reached. Cutting via simple twist action of the tool. material: plastic



Art. No.	width	weight	PU
26 21 51	2,5 - 5,0 mm	250	1

## Tensioning tools for Cable ties

The built-in knife will cut only, when the requested tension has been reached. material: metal



Art. No.	width	weight	PU
26 21 52	2,5 - 5,0 mm	300	1

## Tensioning tools for Cable ties

Prevents overstretching and constriction by continuously adjustable stress limitation. The built-in knife will cut only, when the requested tension has been reached. material: metal



Art. No.	width	weight	PU
26 21 54	2,5 - 13,0 mm	320	1

## Tensioning tools for Cable ties

Prevents overstretching and constriction by continuously adjustable stress limitation. The built-in knife will cut only, when the requested tension has been reached. material: metal



Art. No.	width	weight	PU
26 21 58	2,5 - 10,0 mm	300	1

## Self adhesive sockets

for cable ties and a quick and reliable fastening of line or cable bundles and other objects



Art. No.	mm	width	colour	weight	PU	PU
26 21 60	19 x 19	to 3,6 mm	natural	780	100/	1000
26 21 61	19 x 19	to 3,6 mm	black	800	100/	1000
26 21 62	28 x 28	to 4,8 mm	natural	850	100/	500
26 21 63	28 x 28	to 4,8 mm	black	900	100/	500

## Screw type sockets

for cable ties and a quick and reliable fastening of large diam. cable bundles and other objects, not UV-resistant



Art. No.	mm	width	colour	weight	PU	PU
26 21 64	1,5 x 1,0	to 7,8 mm	natural	150	100/	10000
26 21 65	1,5 x 1,0	to 7,8 mm	black	150	100/	10000

## Dowel Mounting sockets/Christmas trees

for cable ties up to a width of 9 mm, 2 types with different wall-distances, available wall-fixing avoid the friction of the cable on the wall, black colour



Art. No.	A	B	C	D	weight	PU	PU
26 21 70	10	37	6,5	9,2	150	100/	5000
26 21 72	10	37	13	9,2	150	100/	4000

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## Heat shrinkable tubes

of polyolefin, radiation interlaced, self extinguished according to MV SS 302, thin and flexible, dielectric strength 15 - 25 KV/mm acc. to DIN 53481, operating temperature: - 55° C to 135° C, shrinking temperature: > 115° C, **1 meter** length in self-service-pack



Art. No.	SR to	SR from	th. wall	weight	PU
26 20 85	4,8	2,4	0,50	300	10
26 20 86	6,4	3,2	0,60	300	10
26 20 87	9,5	4,8	0,60	350	10
26 20 88	12,7	6,4	0,60	400	10
26 20 89	19,0	9,5	0,80	600	10
26 20 90	25,4	12,7	0,90	750	10

## Heat shrinkable tubes

of polyolefin, self extinguished according to MV SS 302, thin and flexible universal using, dielectric strength 15 - 25 KV/mm DIN 53481, operating temperature: - 55° C to 135° C, shrinking temperature: > 115° C, in **5 meter** length, in self-service-pack



Art. No.	SR to	SR from	th. wall	weight	PU
26 20 95	19,0	9,5	0,80	300	1
26 20 96	25,4	12,7	0,90	300	1

## Heat shrinkable tubes

of polyolefin, self extinguished according to MV SS 302, thin and flexible universal using, dielectric strength 15 - 25 KV/mm DIN 53481, operating temperature: - 55° C to 135° C, shrinking temperature: > 115° C, in **10 m role**



Art. No.	SR to	SR from	th. wall	weight	PU
26 20 73	1,2	0,6	0,40	1100	1
26 20 74	1,6	0,8	0,50	2200	1
26 20 75	2,4	1,2	0,50	3000	1
26 20 76	3,2	1,6	0,50	3000	1
26 20 91	4,8	2,4	0,50	3000	1
26 20 92	6,4	3,2	0,60	3000	1
26 20 93	9,5	4,8	0,60	3000	1
26 20 94	12,7	6,4	0,60	3000	1

## Heat shrinkable tubes

of polyolefin, self extinguished according to MV SS 302, thin and flexible universal using, dielectric strength 15 - 25 KV/mm DIN 53481, operating temperature: - 55° C to 135° C, shrinking temperature: > 115° C, in **75 m role**



Art. No.	SR to	SR from	th. wall	weight	PU
26 20 93/75	9,5	4,8	0,70	1100	1

## Hot air gun

Type Profi HL 2000 P, for shrinkable tubes



Art. No.	weight	PU
26 20 97	850	1

## Polyethene spiral binding

natural, non-flame resistant



Art. No.	Ø length m	KB	weight	PU
26 20 60	1,5 30	1,5 - 18	250	1
26 20 62	4 30	4 - 50	550	1
26 20 64	9 30	9 - 65	2350	1

## Polyethene spiral binding

white, flame resistant



Art. No.	Ø length m	KB	weight	PU
26 20 66	1,5 30	1,5 - 18	400	1
26 20 68	4 30	4 - 50	800	1
26 20 69	9 30	9 - 65	1950	1

Ct max. .... cable tree max in mm  
height ..... in mm  
length ..... in mm

PU ..... packing unit in pieces  
SR ..... shrinking range in mm  
th ..... thickness of wall after shrinking mm

TS ..... tensile strength  
tot. length ..... total length in mm  
weight ..... in gr.

width ..... in mm  
wot ..... width of tape in mm

## Cable ties system in casket

spring ball head, starting ball and drawing garter are packed in a foam cushion in the center of the casket, casket consists of:

- glass fibre tape 25, 30,5 or 50 m
- drawing garter 6 - 9 mm Ø
- spring ball heads 7, 10 and 13 mm Ø
- drawing help, 3 starting pieces 6 mm Ø
- 3 starting balls



Art. No.	length m	Ø	weight	PU
14 22 00	25,0	3,1	1250	1
14 22 02	30,5	3,1	1350	1
14 22 04	50,0	3,1	1500	1

## Drawing garter

including starting ball, spare part for fish tape system



Art. No.	Ø	weight	PU
14 22 10	4 - 7	50	1
14 22 11	6 - 9	50	1

## Drawing garter

including starting ball, spare part for fish tape system



Art. No.	Ø	weight	PU
14 22 12	9 - 12	50	1
14 22 13	12 - 19	50	1
14 22 14	19 - 25	50	1

## Connection-sleeve

Spare part for fish-tape system



Art. No.	weight	PU
14 22 15	100	1

## Drawing help

including 2 spare pressing parts, spare part for cable ties system



Art. No.	weight	PU
14 22 16	100	1

## Pressing ledge for drawing helps

spare part for cable ties system

Art. No.	weight	PU
14 22 17	100	10

## Spare glass fibre tape

spare part for cable ties system



Art. No.	length m	weight	PU
14 22 18	25,0	300	1
14 22 19	30,5	300	1
14 22 20	50,0	550	1

## Starting ball

Art. No. 14 22 30 Starting ball

Art. No. 14 22 29 Starting piece with M5 thread



Art. No.	length mm	weight	PU
14 22 30	10	10	1
14 22 29	10	10	1

## Spare part set for cable ties system

7 parts consisting of:

- Spring ball head 1, Art. No. 14 22 26
- Spring ball head 2, Art. No. 14 22 27
- Spring ball head 3, Art. No. 14 22 28
- Starting ball, Art. No. 14 22 30
- Connection sleeves, Art. No. 14 22 15
- Pressing part, Art. No. 14 22 17
- **Kleber** Art. No. 14 22 32



Art. No.	set	weight	PU
14 22 25	7-pieces	50	1

## Steel fish tapes

with eyelet and brass rolling ball, without additional pilot spring



Art. No.	length m	tapes-Ø mm	weight	PU
15 01 52	10	3,5 x 0,5	135	10
15 01 54	15	3,5 x 0,5	200	10
15 01 56	20	3,5 x 0,5	270	10
15 01 58	25	3,5 x 0,5	325	10

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## Spiral fish tapes

made from steel spirals, fourfold twisted, with solid steel end pieces, strip size 4 mm



Art. No.	length m	strip size	weight	PU
15 02 00	5	4	370	1
15 02 02	10	4	680	1
15 02 04	15	4	970	1
15 02 06	20	4	1310	1
15 02 08	25	4	1665	1
15 02 10	30	4	1885	1

## Perlon fish tapes

made from stretched „Bayer-Perlon wire“, black, with solid steel end pieces, **with 2 eyes**, strip size 3 mm



Art. No.	length m	strip size	weight	PU
15 04 50	5	3	50	1
15 04 52	10	3	100	1
15 04 54	15	3	125	1
15 04 56	20	3	150	1
15 04 58	25	3	200	1
15 04 62	5	4	100	1
15 04 64	10	4	150	1
15 04 66	15	4	250	1
15 04 68	20	4	300	1
15 04 70	25	4	400	1

## Perlon fish tapes

made from stretched „Bayer-Perlon wire“, black, with solid steel end pieces, **with additional pilot spring**, approx. 120 mm length



Art. No.	length m	strip size	weight	PU
15 02 20	5	3	100	1
15 02 22	10	3	160	1
15 02 24	15	3	230	1
15 02 26	20	3	300	1
15 02 28	25	3	375	1
15 02 30	30	3	450	1
15 02 41	10	4	165	1
15 02 43	15	4	235	1
15 02 45	20	4	305	1

## Perlon fish tapes

made from stretched „Bayer-Perlon wire“, black, with solid steel end pieces, **with 2 spring and 2 eyes**, strip size 4 mm



Art. No.	length m	strip size	weight	PU
15 04 76	10	4	150	1
15 04 78	15	4	250	1
15 04 80	20	4	300	1
15 04 82	25	4	400	1

## Perlon fish tapes

made from stretched „Bayer-Perlon wire“, black, with solid steel end pieces, **without additional pilot spring**, strip size 4 mm



Art. No.	length m	strip size	weight	PU
15 02 32	10	4	160	1
15 02 34	15	4	230	1
15 02 36	20	4	300	1
15 02 38	25	4	375	1
15 02 39	30	4	455	1
15 02 47	25	4	380	1

Ct max. .... cable tree max in mm  
height ..... in mm  
length ..... in mm

PU ..... packing unit in pieces  
SR ..... shrinking range in mm  
th ..... thickness of wall after shrinking mm

TS ..... tensile strength  
tot. length ..... total length in mm  
weight ..... in gr.