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Quality and functionality that is our highest priority ...

We produce in our plant in Peine, cable lugs, cable connectors, cord-end-sleeves and tools since 70 years. The "Made in Germany" stands for high quality, functionality and durability of all our products.

Our slogan: "A safe Connection – Quaranteed!" is a promise to all our renowned customers worldwide.

Of course **WEITKOWITZ** is also certificate to ISO 9001 and ISO/TS 16949 and fulfills therefore the highest quality requirements, e.g. from the automobile industry.

Customers from different areas e.g. electrical installations, switchboards, transformer constructions, cable assembly, lightning production, railway technology, wind energy and solar energy use **WEITKOWITZ** items in their products and installations.



WEITKOWITZ was founded in 1918 by Mr. Franz Weitkowitz. The production of cable lugs and connectors was resumed in 1949. We produce our connection items in our current location in Peine since 1960. **WEITKOWITZ** has currently 135 employees.

WEITKOWITZ is a member of the Intercable group in Brunico (Italy) since 2009. Today we are a medium-sized company which operates worldwide.

Our core competence is the solderless connection technology. New kinds of cable require a customization of the cable lugs and crimping techniques again and again. We face up to the demands of the market.

Due to the intensive WM-crimp of **WEITKOWITZ** can be processed our cable lugs and connectors without an additional filling sleeve. Also a special cable lug is not necessary with the crimp of **WEITKOWITZ**. This applies to stranded, pre-compacted and flexible copper cables. You can use this advantage only with the WM-crimp.

Our newest development is the C8-crimp. We have developed this solution especially for flexible aluminium cables. We reach by the C8-crimp a very good quality of processing which corresponds to the ICE 61238-1:2003 or DIN EN 61238:2004-03.

The following article groups belong to our own

manufacturer's program. ■ cable lugs ■ connectors ■ flat blade system ■ cord-end-sleeves ■ innovative earthing items for lightning protection and railway ■ mechanical and hydraulic crimping and cuttings tools.

A considerable range of cable ties and shrinkable tubings complete our assortment of products.

More than 3500 standard articles are available from stock within 24 hours. In addition we have produced 7000 special solutions for our customers to solve their special connection problems. Moreover there are detailed drawings, so that all special items can be manufactured any time newly.

We tin-plated our copper products in our own electroplating. **WEITKOWITZ** is the last German manufacturer with an own electroplating. This allows **WEITKOWITZ** a high-quality high gloss tin-plating and short production times. We can check tension forces, layer thickness, fill factor and dimension accuracy in our own test laboratory. The test protocols show the quality of our mechanical and electrical connections.

We look forward if you use our long-standing experiences in the areas of the solderless connecting technology. Please contact our sales department regarding an appointment.



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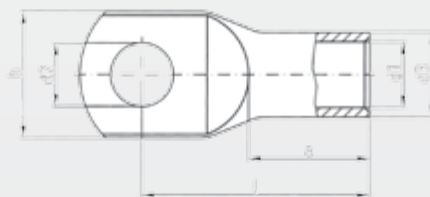
Tubular cable lugs, copper
Tubular butt- and oval-connectors, copper
Tubular T-connectors, copper
standard-series

Tubular cable lugs 0.5 – 6 mm² standard-series

material: Cu according to DIN EN 13600

surface: tin plated

1

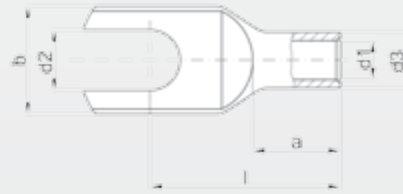


cross section mm ²	flat hole M	art.-no.	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
			d1	d3	d2	b	l	a			
0,5 – 0,75	3	13000	1,4	3	3,2	6,5	12,5	6	0,07	100	WZ 22 118 WZ 6 117
	4	13001			4,3	8,5	14		0,08	100	
	5	13002			5,3	10	15		0,10	100	
1,0 – 1,5	3	13005	1,9	3,9	3,2	6,5	14	6	0,12	100	
	4	13006			4,3	8,5	15		0,14	100	
	5	13007			5,3	10	16		0,15	100	
	6	13008			6,4	11	18		0,17	100	
2,5	4	13010	2,4	4,4	4,3	8,5	15	6,5	0,16	100	
	5	13011			5,3	10	16		0,18	100	
	6	13012			6,4	11	18		0,19	100	
	8	13013			8,4	13	20		0,22	100	
4	4	13015	3	5	4,3	8,5	17	8	0,22	100	
	5	13016			5,3	10	18		0,24	100	
	6	13017			6,4	11	20		0,26	100	
	8	13018			8,4	14	22		0,30	100	
6	4	13020	3,7	5,5	4,3	8,5	17,5	8	0,24	100	PW 6/50 138 DP 6/95 138
	5	13021			5,3	10	19		0,26	100	
	6	13022			6,4	11	21		0,28	100	
	8	13023			8,4	14	23		0,30	100	
	10	13024			10,5	15	25,5		0,32	100	

Tubular cable lugs, fork type 0.5 – 16 mm² standard-series

material: Cu according to DIN EN 13600

surface: tin plated



cross section mm²	flat hole M	art.-no.	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	tool recommendation	
			d1	d3	d2	b	l	a				
0,5 – 0,75	3	13050	1,4	3	3,2	6,5	12,5	6	0,07	100	WZ 22 118	WZ 6 117
	4	13051			4,3	8,5	14		0,07	100		
	5	13052			5,3	10	15		0,08	100		
1,0 – 1,5	3	13055	1,9	3,9	3,2	6,5	13,5	6	0,11	100		
	4	13056			4,3	8,5	15		0,12	100		
	5	13057			5,3	10	16		0,13	100		
	6	13058			6,4	11	18		0,14	100		
2,5	4	13060	2,4	4,4	4,3	8,5	15	6,5	0,15	100		
	5	13061			5,3	10	16		0,16	100		
	6	13062			6,4	11	18		0,16	100		
	8	13063			8,4	13	20		0,19	100		
4	4	13065	3	5	4,3	8,5	17	8	0,18	100		
	5	13066			5,3	10	18		0,21	100		
	6	13067			6,4	11	20		0,22	100		
	8	13068			8,4	14	22		0,23	100		
6	4	13070	3,7	5,5	4,3	8,5	17,5	8	0,21	100		
	5	13071			5,3	10	19		0,23	100		
	6	13072			6,4	11	21		0,25	100		
	8	13073			8,4	14	23		0,26	100		
10	5	13076	4,3	6,7	5,3	10	20,5	10	0,40	100		
	6	13077			6,4	11	22,5		0,42	100		
	8	13078			8,4	15	25		0,46	100		
16	5	13081	5,4	7,8	5,3	12	22,5	11	0,53	100		
	6	13082			6,4	12	24,5		0,56	100		
	8	13083			8,4	15	26,5		0,60	100		
16 f	5	13086	6	9	5,3	14	25,5	13	0,82	100		
	6	13087			6,4	14	27		0,86	100		
	8	13088			8,4	15	29,5		0,94	100		

DP 6/95 138, PW 6/50 138

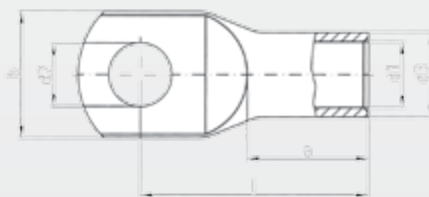
FW 10/70 140

Tubular cable lugs 10 – 35 mm² standard-series

material: Cu according to DIN EN 13600

surface: tin plated – type: without or optionally with inspection hole

1

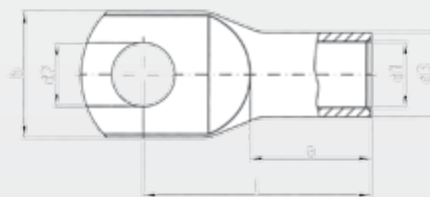


cross section mm ²	flat hole M	art.-no. without inspection hole	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. with inspection hole	tool recommendation
10	4	13204	4,3	6,7	4,3	10	19,5	10	0,41	100	13704	WZ 6 117 MP 13 142, PW 6/50 138 AP 10 152, HPI 10 + HPW 10 153, API 20 156, HPI 20 + HPW 20 157, API 30 + HPI 30 161, HPW 17 163, Stilo 1 150 PW 6/70 139, DP 6/95 138, PW 10/120 141, MP 1 144, MP 2 147
	5	13205			5,3	10	20,5		0,43	100	13705	
	6	13206			6,4	11	22,5		0,48	100	13706	
	8	13207			8,4	15	25		0,52	100	13707	
	10	13208			10,5	18	27,5		0,57	100	13708	
	12	13209			13	19	28,5		0,58	100	13709	
16	5	13210	5,4	7,8	5,3	12	22,5	11	0,57	100	13710	
	6	13211			6,4	12	24,5		0,64	100	13711	
	8	13212			8,4	15	26,5		0,67	100	13712	
	10	13213			10,5	18	29		0,78	100	13713	
	12	13214			13	20	30		0,72	100	13714	
25	5	13296	6,9	9,4	5,3	14	25	13	0,87	100	13796	
	6	13215			6,4	14	27		0,94	100	13715	
	8	13216			8,4	15	29		1,00	100	13716	
	10	13217			10,5	18	31,5		1,07	100	13717	
	12	13218			13	20	32,5		1,08	100	13718	
	14	13219			15	22	34,5		1,16	100	13719	
35	5	13298	8,3	11,3	5,3	16,5	32,5	16	1,60	100	13798	
	6	13220			6,4	16,5	32,5		1,60	100	13720	
	8	13221			8,4	16,5	33		1,56	100	13721	
	10	13222			10,5	18	35,5		1,75	100	13722	
	12	13223			13	20	36,5		1,75	100	13723	
	14	13224			15	22	39		1,87	100	13724	
	16	13292			17	26	41,5		1,97	100	13792	

Tubular cable lugs 50 – 150 mm² standard-series

material: Cu according to DIN EN 13600

surface: tin plated – type: without or optionally with inspection hole



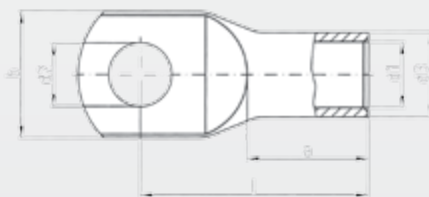
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cross section mm ²	flat hole M	art.-no. without inspection hole	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. with inspection hole	tool recommendation
50	6	13281	9,6	13,1	6,4	19	36	18	2,35	100	13781	MP 13 142, PW 6/50 138 PW 6/70 139 PW 10/120 141, MP 1 144 AP 10 152, HP 10 + HPW 10 153, MP 2 147, AP 120 156, HP 20 + HPW 20 157, AP 130 + HP 30 161, HPW 17 163, Stilo 1 150
	8	13225			8,4	19	37		2,41	100	13725	
	10	13226			10,5	20	39		2,53	100	13726	
	12	13227			13	23	40,5		2,61	100	13727	
	14	13282			15	25	42,5		2,79	100	13782	
	16	13228			17	27	45,5		2,94	100	13728	
	20	13297			21	28	50		2,95	100	13797	
70	6	13229	11,5	15,3	6,4	22,5	41	21	3,46	100	13729	
	8	13230			8,4	22,5	41		3,38	100	13730	
	10	13231			10,5	22,5	42,5		3,59	100	13731	
	12	13232			13	23	43,5		3,64	100	13732	
	14	13283			15	26	46		3,93	100	13783	
	16	13233			17	28	48,5		3,83	100	13733	
	20	13234			21	29	53		4,21	100	13734	
95	6	13299	13,5	17,5	6,4	25	46	23	4,71	50	13799	
	8	13235			8,4	25	45,5		4,76	50	13735	
	10	13236			10,5	25	47		4,82	50	13736	
	12	13237			13	26	47		4,81	50	13737	
	14	13284			15	26	49		5,16	50	13784	
	16	13238			17	28	50		5,15	50	13738	
	20	13239			21	31	54,5		5,66	50	13739	
120	8	13285	15,5	20	8,4	29	50,5	26	6,60	50	13785	
	10	13240			10,5	29	53		7,13	50	13740	
	12	13241			13	29	52,5		7,14	50	13741	
	14	13286			15	29	53,5		7,24	50	13786	
	16	13242			17	29	55		7,21	50	13742	
	20	13243			21	35	60		7,81	50	13743	
150	8	13244	16,8	21,3	8,4	31	55,5	29	8,34	25	13744	
	10	13245			10,5	31	56,5		8,34	25	13745	
	12	13246			13	31	56		8,23	25	13746	
	14	13287			15	31	57		8,26	25	13787	
	16	13247			17	31	58		8,50	25	13747	
	20	13248			21	35	63		8,84	25	13748	

Tubular cable lugs 185 – 630 mm² standard-series

material: Cu according to DIN EN 13600

surface: tin plated – type: without or optionally with inspection hole

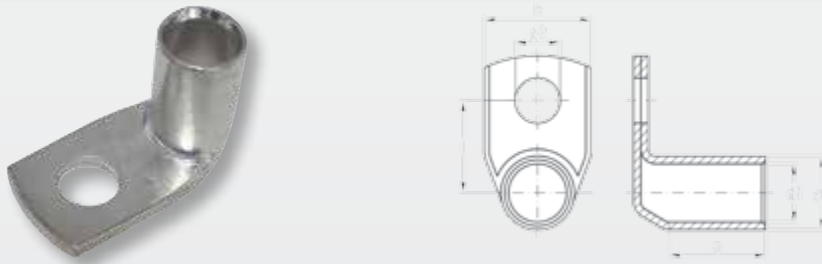


cross section mm ²	flat hole M	art.-no. without inspection hole	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. with inspection hole	tool recommendation
185	8	13293	19	24	8,4	35	58	30	10,37	25	13793	MP 2 147, AP 10 152, HPI 10 + HPW 10 153 API 30 + HPI 30 161, HPW 17 163 API 20 156, HPI 20 + HPW 20 157, API 35 + HPI 35 162 HPW 18 168
	10	13249			10,5	35	59		10,63	25	13749	
	12	13250			13	35	58,5		10,54	25	13750	
	14	13288			15	35	61		10,72	25	13788	
	16	13251			17	35	63		10,86	25	13751	
	20	13252			21	35	66		11,33	25	13752	
240	8	13253	21	26	8,4	38	67	35	12,40	25	13753	
	10	13254			10,5	38	67		12,97	25	13754	
	12	13255			13	38	67		13,02	25	13755	
	14	13289			15	38	69		13,36	25	13789	
	16	13256			17	38	69,5		13,56	25	13756	
	20	13257			21	38	71		13,80	25	13757	
300	10	13259	24	30	10,5	44	79,5	42	20,45	20	13759	
	12	13260			13	44	82		21,18	20	13760	
	14	13290			15	44	84		22,19	20	13790	
	16	13261			17	44	85		22,00	20	13761	
	20	13262			21	44	85		22,40	20	13762	
400	10	13263	27,5	33,5	10,5	49	92	47	27,90	15	13763	
	12	13264			13	49	92		27,85	15	13764	
	16	13265			17	49	92		27,65	15	13765	
	20	13266			21	49	92		26,61	15	13766	
500	12	13269	31	38	13	55,5	113	70	49,38	5	13769	
	16	13270			17	55,5	113		49,38	5	13770	
	20	13271			21	55,5	113		48,56	5	13771	
630	16	13275	34	41	17	60	115	70	51,35	5	13775	
	20	13276			21	60	115		50,60	5	13776	

Tubular cable lugs with 90° angle, 0.5 – 25 mm² standard-series

material: Cu according to DIN EN 13600

surface: tin plated – type: without or optionally with inspection hole

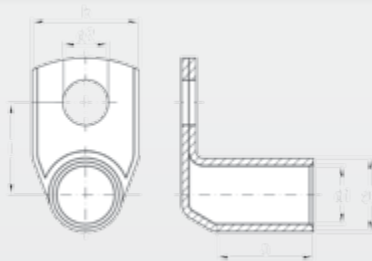


cross section mm²	flat hole M	art.-no. without inspection hole	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. with inspection hole	tool recommendation	
			d1	d3	d2	b	l	a					
0,5 – 0,75	3	13100	1,4	3	3,2	6,5	7,5	5	0,09	100	–	WZ 22 118	WZ 6 117
	4	13101			4,3	8,5	8,5		0,10	100	–		
	5	13102			5,3	10	9,5		0,10	100	–		
1,0 – 1,5	3	13105	1,9	3,9	3,2	6,5	8	5	0,16	100	–		
	4	13106			4,3	8,5	9		0,16	100	–		
	5	13107			5,3	10	10		0,16	100	–		
	6	13108			6,4	11	12		0,18	100	–		
2,5	4	13110	2,4	4,4	4,3	8,5	9,2	5,5	0,18	100	–		
	5	13111			5,3	10	10,2		0,18	100	–		
	6	13112			6,4	11	12,2		0,22	100	–		
	8	13113			8,4	14	14,2		0,23	100	–		
4	4	13115	3	5	4,3	8,5	9,5	7	0,25	100	–		
	5	13116			5,3	10	10,5		0,24	100	–		
	6	13117			6,4	11	12,5		0,29	100	–		
	8	13118			8,4	14	14,5		0,30	100	–		
6	4	13120	3,7	5,5	4,3	8,5	9,8	7	0,27	100	–		
	5	13121			5,3	10	10,8		0,25	100	–		
	6	13122			6,4	11	12,8		0,28	100	–		
	8	13123			8,4	14	14,8		0,34	100	–		
10	5	13305	4,3	6,7	5,3	10	11,4	9	0,49	100	13805		
	6	13306			6,4	11	13,4		0,53	100	13806		
	8	13307			8,4	15	15,4		0,54	100	13807		
	10	13308			10,5	18	17,4		0,63	100	13808		
	12	13309			13	20	18,4		0,62	100	13809		
16	5	13310	5,4	7,8	5,3	11	11,9	10	0,66	100	13810		
	6	13311			6,4	11,5	13,9		0,70	100	13811		
	8	13312			8,4	15	15,9		0,82	100	13812		
	10	13313			10,5	18	17,9		0,82	100	13813		
	12	13314			13	20	18,9		0,78	100	13814		
25	5	13396	6,9	9,4	5,3	14	12,7	12	0,99	100	13896		
	6	13315			6,4	14	14,7		1,13	100	13815		
	8	13316			8,4	15	16,7		1,22	100	13816		
	10	13317			10,5	18	18,7		1,28	100	13817		
	12	13318			13	20	19,7		1,24	100	13818		

Tubular cable lugs with 90° angle, 35 – 300 mm² standard-series

material: Cu according to DIN EN 13600

surface: tin plated – type: without or optionally with inspection hole



cross section mm ²	flat hole M	art.-no. without inspection hole	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. with inspection hole	tool recommendation
35	6	13320	8,3	11,3	6,4	16,5	16,2	15	1,75	100	13820	PW 6/70 139 PW 10/120 141, MP 1 144 API 20 156, HPI 20 + HPW 20 157, API 30 + HPI 30 161, HPW 17 163, HPW 15 163 MP 2 147, AP 10 152, HPI 10 + HPW 10 153
	8	13321			8,4	16,5	18,2		1,75	100	13821	
	10	13322			10,5	18	20,2		1,80	100	13822	
	12	13323			13	20	21,2		1,80	100	13823	
50	6	13381	9,6	13,1	6,4	19	17,1	17	2,63	100	13881	
	8	13325			8,4	19	19,1		2,67	100	13825	
	10	13326			10,5	20	21,1		2,99	100	13826	
	12	13327			13	23	23,5		3,00	100	13827	
	16	13328			17	27	25,1		3,14	100	13828	
70	8	13330	11,5	15,3	8,4	22	20,2	20	3,66	50	13830	
	10	13331			10,5	22	22,2		3,88	50	13831	
	12	13332			13	23	23,2		3,82	50	13832	
	16	13333			17	28	26,2		3,95	50	13833	
	20	13334			21	29	30,2		5,01	50	13834	
95	8	13335	13,5	17,5	8,4	25	21,3	22	4,93	50	13835	
	10	13336			10,5	25	23,3		5,27	50	13836	
	12	13337			13	25	24,3		4,96	50	13837	
	16	13338			17	28	27,3		5,20	50	13838	
	20	13384			21	31	31,3		6,85	50	13884	
120	8	13339	15,5	20	8,4	29	22,5	25	6,41	50	13839	
	10	13340			10,5	29	25		7,32	50	13840	
	12	13341			13	29	26		7,33	50	13841	
	16	13342			17	29	28,5		7,30	50	13842	
150	8	13344	16,8	21,3	8,4	31	25,7	28	8,03	25	13844	
	10	13345			10,5	31	25,7		8,07	25	13845	
	12	13346			13	31	26,7		8,29	25	13846	
	16	13347			17	31	29,7		8,50	25	13847	
	20	13348			21	35	33,7		8,89	25	13848	
185	10	13349	19	24	10,5	35	27	29	9,90	25	13849	
	12	13350			13	35	28		10,14	25	13850	
	16	13351			17	35	31		11,15	25	13851	
	20	13352			21	35	35		11,58	25	13852	
240	10	13354	21	26	10,5	38	28	34	13,16	25	13854	
	12	13355			13	38	29		12,69	25	13855	
	16	13356			17	38	32		13,46	25	13856	
	20	13357			21	38	36		13,60	25	13857	
300	12	13360	24	30	13	43	31	41	19,92	20	13860	
	16	13361			17	43	34		20,90	20	13861	
	20	13362			21	43	38		21,81	20	13862	

Tubular cable lugs with 45° angle, 10 – 70 mm² standard-series

material: Cu according to DIN EN 13600

surface: tin plated



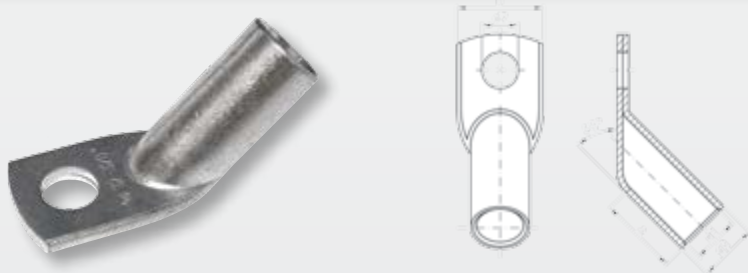
cross section mm ²	flat hole M	art.-no.	dimensions in mm					weight 100 pcs./kg	packing unit (pcs.)	tool recommendation		
			d1	d3	d2	b	a					
10	5	13134	4,3	6,7	5,3	10	9	0,49	100	PW 6/70 139, DP 6/95 138	PW 10/120 141, MP 1 144, AP 10 152, HPI 10 + HPW 10 153	API 20 156, HPI 20 + HPW 20 157, API 30 + HPI 30 161, HPW 17 163, Stilo 1 150
	6	13135			6,4	11		0,54	100			
	8	13136			8,4	15		0,59	100			
16	6	13140	5,4	7,8	6,4	11,5	10	0,69	100			
	8	13141			8,4	15		0,71	100			
	10	13142			10,5	18		0,82	100			
25	5	13144	6,9	9,4	5,3	14	12	0,89	100			
	6	13145			6,4	14		1,10	100			
	8	13146			8,4	15		1,13	100			
	10	13147			10,5	18		1,20	100			
	12	13148			13	20		1,22	100			
35	6	13150	8,3	11,3	6,4	16,5	15	1,81	50			
	8	13151			8,4	16,5		1,88	50			
	10	13152			10,5	18		1,95	50			
	12	13153			13	20		1,97	50			
50	6	13154	9,6	13,1	6,4	19	17	2,42	50			
	8	13155			8,4	19		2,85	50			
	10	13156			10,5	20		3,27	50			
	12	13157			13	23		3,41	50			
70	6	13159	11,5	15,3	6,4	22	20	3,66	25			
	8	13160			8,4	22		3,92	25			
	10	13161			10,5	22		4,30	25			
	12	13162			13	23		4,24	25			

Tubular cable lugs 45° angle, 95 – 300 mm² standard-series

material: Cu-HCP according to DIN EN 13600

surface: tin plated

1



cross section mm ²	flat hole M	art.-no.	dimensions in mm					weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
			d1	d3	d2	b	a			
95	8	13165	13,5	17,5	8,4	25	22	5,38	25	DP 6/95 138 PW 10/120 141, MP 1 144 API 20 156, HPI 20 + HPW 20 157, API 30 + HPI 30 161, HPW 17 163, HPW 15 163 MP 2 147, AP 10 152, HPI 10 + HPW 10 153
	10	13166			10,5	25		5,61	25	
	12	13167			13	25		5,74	25	
120	8	13169	15,5	20	8,4	29	25	7,65	25	
	10	13170			10,5	29		8,33	25	
	12	13171			13	29		8,47	25	
	16	13172			17	29		8,59	25	
150	8	13173	16,8	21,3	8,4	31	28	10,20	25	
	10	13174			10,5	31		9,87	25	
	12	13175			13	31		9,68	25	
	16	13176			17	31		10,19	25	
185	10	13178	19	24	10,5	35	29	12,52	20	
	12	13179			13	35		12,29	20	
	16	13180			17	35		12,84	20	
	20	13181			21	35		13,99	20	
240	10	13182	21	26	10,5	38	34	14,80	15	
	12	13183			13	38		15,46	15	
	16	13184			17	38		16,51	15	
	20	13185			21	38		17,04	15	
300	12	13187	24	30	13	43	41	25,70	15	
	16	13188			17	43		25,68	15	
	20	13189			21	43		27,30	15	

Tubular butt-connectors 0.5 – 630 mm² standard-series

material: Cu according to DIN EN 13600

surface: tin plated – type: with or without wirestop



1

cross section mm ²	art.-no. with wirestop	dimensions in mm			weight 100 pcs./kg	packing unit (pcs.)	art.-no. with wirestop	tool recommendation			
		d1	d3	l							
0,5 – 0,75	13450	1,4	3	15	0,08	100	13554	WZ 22 118 DP 6/95 138	WZ 6 117	HPW 17 163, APi 30 + HPi 30 161 MP 2 147, AP 10 152 PW 10/120 141	
1,0 – 1,5	13452	1,9	3,9	15	0,12	100	13555				
2,5	13454	2,4	4,4	16	0,15	100	13556				
4	13456	3	5	19	0,21	100	13557				
6	13458	3,7	5,5	19	0,22	100	13558				
10	13460	4,3	6,7	30	0,55	100	13560				
16	13462	5,4	7,8	35	0,80	100	13561				
25	13464	6,9	9,4	40	1,16	100	13562				
35	13466	8,3	11,3	45	1,91	100	13563				
50	13468	9,6	13,1	50	2,70	100	13564				
70	13470	11,5	15,3	55	3,90	50	13566	HPW 18 168 with converter from 6 mm ²			
95	13472	13,5	17,5	60	5,00	50	13567				
120	13474	15,5	20	65	7,19	50	13568				
150	13476	16,8	21,3	70	8,68	25	13569				
185	13478	19	24	75	11,63	25	13570				
240	13480	21	26	85	14,22	25	13572				
300	13482	24	30	100	22,40	10	13573				
400	13484	27,5	33,5	100	26,17	10	13574				
500	13486	31	38	140	47,30	5	13575				
630	13488	34	41	160	61,75	5	13576				

Tubular oval-connectors 0.5 – 10 mm²

for connection of solid conductors

material: Cu according to DIN EN 13600, surface: tin plated



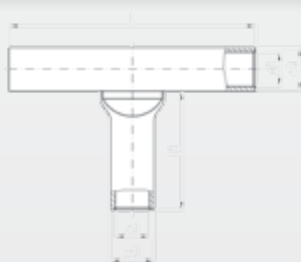
cross section mm ²	art.-no.	dimensions in mm					weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
		d1	d2	d3	d4	l			
0,5	13410	1,0	2,0	2,0	3,0	25	0,08	100	special crimping tool art.-no. 99056 124
1,5	13412	1,6	3,2	2,6	4,2	25	0,11	100	
2,5	13414	2,1	4,2	3,1	5,2	25	0,14	100	
4	13416	2,5	5,0	3,5	6,0	25	0,16	100	
6	13418	3,0	6,0	5,0	8,0	40	0,65	100	MP 13 142 MP 1 144
10	13420	3,9	7,6	5,9	9,6	50	0,96	50	

Tubular T-connectors 1.0 – 300 mm² standard-series

material: Cu according to DIN EN 13600

surface: tin plated

1



cross section mm ²	art.-no.	dimensions in mm				weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
		d1	d3	l	l1			
1,0 – 1,5	13952	1,9	3,9	30	16	0,36	50	WZ 6 117 DP 6/95 138 PW 10/120 141 API 30 + HPI 30 161
2,5	13954	2,4	4,4	30	16	0,45	50	
4	13956	3	5	35	16,5	0,57	50	
6	13958	3,7	5,5	35	17	0,66	50	
10	13960	4,3	6,7	45	25	1,34	50	
16	13962	5,4	7,8	50	26	1,71	50	
25	13964	6,9	9,4	50	27	2,20	25	
35	13966	8,3	11,3	60	31	3,82	25	
50	13968	9,6	13,1	72	35	6,13	10	
70	13970	11,5	15,3	77	37	8,00	10	
95	13972	13,5	17,5	88	45	11,82	10	
120	13974	15,5	20	106	53	18,27	10	
150	13976	16,8	21,3	120	58	23,42	5	
185	13978	19	24	110	42	25,62	5	
240	13980	21	26	135	55	33,94	5	
300	13982	24	30	140	55	47,70	3	

Assortment box with tubular cable lugs, standard-series

material: varnished steel, with 12 small compartments and 1 tool compartment

measurements: 405 x 250 x 50 mm



art.-no.: 90876

special filling
on request

contents of tubular cable lugs, standard-series:

quantity	cross section mm ²	flat hole M	art.-no.
25 x	6	6	13022
25 x	6	8	13023
25 x	10	6	13206
25 x	10	8	13207
25 x	16	8	13212
25 x	16	10	13213
25 x	25	8	13216
25 x	25	10	13217
20 x	35	8	13221
20 x	35	10	13222
20 x	50	10	13226
20 x	50	12	13227
1 x PW 6/50			90180

Assortment box without contents:

art.-no.: 90877

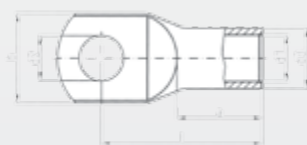


Tubular cable lugs for flexible conductors, copper
Tubular butt-connectors for flexible conductors, copper

Tubular cable lugs 10 – 50 mm² for flexible conductors

material: Cu according to DIN EN 13600

surface: tin plated – type: without or optionally with inspection hole

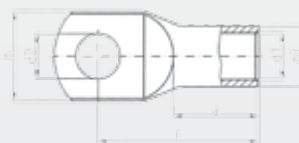


cross section mm² min. cable-Ø	flat hole M	art.-no. without inspection hole	dimensions in mm						weight 100 pcs./kg	packing units (pcs.)	art.-no. with inspection hole	tool recommendation							
			d1	d3	d2	b	l	a											
10 f	5	13510	5	8	5,3	12	23	12	0,70	100	13610	FW 10/70 140	MP 1 144	MP 2 147, API 35 + HPI 35 162, HPW 15 163	AP 10 152, HPI 10 + HPW 10 153, API 20 156, HPI 20 + HPW 20 157, API 30 + HPI 30 161, HPW 17 163, Stilo 1 150				
	6	13511			6,4	12	25		0,76	100	13611								
4,0 mm	8	13512			8,4	15	28		0,89	100	13612								
	10	13513			10,5	18	31		0,98	100	13613								
	12	13514			13	20	32		1,00	100	13614								
16 f	5	13585	6	9	5,3	14	25,5	13	0,94	100	13685								
	6	13515			6,4	14	27		1,01	100	13615								
5,0 mm	8	13516			8,4	15	29,5		1,12	100	13616								
	10	13517			10,5	18	32		1,12	100	13617								
	12	13518			13	20	33		1,18	100	13618								
25 f	6	13520	7,7	10,7	6,4	16	32	16	1,47	100	13620								
	8	13521			8,4	16	34		1,43	100	13621								
6,5 mm	10	13522			10,5	18	35		1,53	100	13622								
	12	13523			13	20	36		1,61	100	13623								
	16	13524			17	26	40,5		1,91	100	13624								
35 f	6	13583	9,2	12,4	6,4	18	36	18	2,07	100	13683								
	8	13525			8,4	18	36		2,07	100	13625								
7,8 mm	10	13526			10,5	18	38		2,14	100	13626								
	12	13527			13	23	40		2,22	100	13627								
	16	13528			17	26	45		2,44	100	13628								
50 f	6	13584	11,2	14,8	6,4	22	42	21	3,25	100	13684								
	8	13530			8,4	22	42		3,22	100	13630								
9,0 mm	10	13531			10,5	22	43		3,33	100	13631								
	12	13532			13	23	44		3,39	100	13632								
	14	13581			15	25	45,5		3,60	100	13681								
	16	13533			17	28	48,5		3,65	100	13633								

Tubular cable lugs 70 – 240 mm² for flexible conductors

material: Cu according to DIN EN 13600

surface: tin plated – type: without or optionally with inspection hole

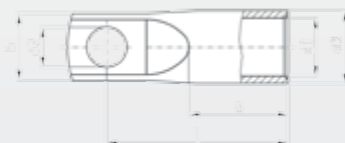


2

cross section mm ² min. cable-Ø	flat hole M	art.-no. without inspection hole	dimensions in mm						weight 100 pcs./kg	packing units (pcs.)	art.-no. with inspection hole	tool recommendation
			d1	d3	d2	b	l	a				
70 f	6	13534	13,5	17,5	6,4	25	46	23	4,43	50	13634	FW 10/70 140 AP 10 152, HPI 10 + HPW 10 153, MP 2 147 API 20 156, HPI 20 + HPW 20 157, API 30 + HPI 30 161 HPW 17 163, HPW 15 163, API 35 + HPI 35 162
.....	8	13535			8,4	25	45,5		4,80	50	13635	
11,0 mm	10	13536			10,5	25	47		4,84	50	13636	
	12	13537			13	26	47		4,84	50	13637	
	16	13538			17	28	50		5,05	50	13638	
	20	13539			21	31	54,5		5,52	50	13639	
95 f	6	13588	15,5	20	6,4	29	50,5	26	6,50	50	13688	
.....	8	13586			8,4	29	50,5		6,62	50	13686	
13,0 mm	10	13540			10,5	29	53		7,15	50	13640	
	12	13541			13	29	52,5		7,11	50	13641	
	16	13542			17	29	55		7,19	50	13642	
	20	13543			21	35	60		7,61	50	13643	
120 f	10	13545	16,8	21,3	10,5	31	56,5	29	8,07	50	13645	FW 10/70 140 AP 10 152, HPI 10 + HPW 10 153, MP 2 147 API 20 156, HPI 20 + HPW 20 157, API 30 + HPI 30 161 HPW 17 163, HPW 15 163, API 35 + HPI 35 162
.....	12	13546			13	31	56		8,07	50	13646	
15,0 mm	16	13547			17	31	58		8,36	50	13647	
	20	13548			21	35	63		8,75	50	13648	
150 f	10	13549	19	24	10,5	35	59	30	10,40	25	13649	
.....	12	13550			13	35	58,5		10,62	25	13650	
16,3 mm	16	13551			17	35	63		11,19	25	13651	
	20	13552			21	35	66		11,61	25	13652	
185 f	10	13589	21	26	10,5	38	67	35	13,03	25	13689	
.....	12	13590			13	38	67		12,15	25	13690	
18,5 mm	16	13592			17	38	69,5		12,88	25	13692	
	20	13593			21	38	71		13,95	25	13693	
240 f	12	13595	24	30	13	44	82	42	21,40	20	13695	FW 10/70 140 AP 10 152, HPI 10 + HPW 10 153, MP 2 147 API 20 156, HPI 20 + HPW 20 157, API 30 + HPI 30 161 HPW 17 163, HPW 15 163, API 35 + HPI 35 162
.....	16	13597			17	44	85		21,94	20	13697	
20,5 mm	20	13598			21	44	85		22,20	20	13698	

Tubular cable lugs 35 – 240 mm² with narrow flange, for flexible conductors for switch gear connections

material: Cu according to DIN EN 13600, surface: tin plated



cross section mm ² min. cable-Ø	flat hole M	art.-no. without inspection hole	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. with inspection hole	tool recommendation
d1	d3	d2	b	l	a							
35 f	6	18583	9,2	12,4	6,4	15	35	18	1,77	25	18683	FW 10/70 140 AP 10 152, HPI 10 + HPW 10 153, MP 2 147 API 20 156, HPI 20 + HPW 20 157, API 30 + HPI 30 161, API 35 + HPI 35 162 HPW 15 163, HPW 17 163
.....												
7,8 mm												
50 f	6	18584	11,0	14,8	6,4	15	38,5	21	2,69	25	18684	
.....	8	18530			8,4	17	41		3,00	25	18630	
9,0 mm	10	18531			10,5	19	45,5		3,30	25	18631	
	12	18532			13	19	46,5		3,30	25	18632	
70 f	6	18599	13,4	17,5	6,4	18	47,5	23	4,51	25	18699	
.....	8	18535			8,4	18	48		4,70	25	18635	
11,0 mm	10	18536			10,5	19	50		4,74	25	18636	
	12	18537			13	22	51		4,63	25	18637	
95 f	6	18580	14,9	20	6,4	19	50	26	5,95	25	18680	
.....	8	18586			8,4	19	51		6,29	25	18686	
13,0 mm	10	18540			10,5	19	53,5		6,54	25	18640	
	12	18541			13	22	55		6,66	25	18641	
120 f	6	18544	16,3	21,3	6,4	19	53	29	6,84	10	18644	
.....	8	18594			8,4	19	55		7,11	10	18694	
15,0 mm	10	18545			10,5	19	57		7,34	10	18645	
	12	18546			13	22	58		7,63	10	18646	
150 f	6	18595	18,7	24	6,4	26	56	30	8,57	10	18695	
.....	8	18593			8,4	26	58		9,18	10	18693	
16,3 mm	10	18549			10,5	26	60		9,72	10	18649	
	12	18550			13	26	59,5		9,99	10	18650	
	16	18551			17	26	62,5		10,50	10	18651	
185 f	8	18553	21	26	8,4	30	62	35	11,50	10	18653	
.....	10	18554			10,5	30	65		11,72	10	18654	
18,5 mm	12	18555			13	30	65		11,27	10	18655	
	16	18556			17	30	68		11,76	10	18656	
240 f	10	18559	23,5	30	10,5	30	76	42	18,59	5	18659	
.....	12	18560			13	30	79		18,86	5	18660	
20,5 mm	16	18561			17	30	81		20,23	5	18661	

Tubular cable lugs with 90° angle. 10 – 50 mm², for flexible conductors

material: Cu according to DIN EN 13600

surface: tin plated



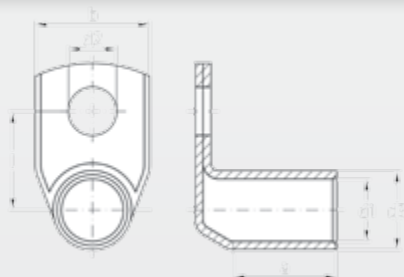
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cross section mm ² min. cable-Ø	flat hole M	art.- no.	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	tool recommendation			
			d1	d3	d2	b	l	a						
10 f	5	11510	5	8	5,3	12	12	11	0,86	100	FW 10/70 140	AP 10 152, HPI 10 + HPW 10 153, MP 2 147	API 20 156, HPI 20 + HPW 20 157, API 30 + HPI 30 161, API 35 + HPI 35 162, Stilo 1 150	HPW 15 163, HPW 17 163
.....	6	11511			6,4	13	14		0,87	100				
4,0 mm	8	11512			8,4	15	16		0,94	100				
	10	11513			10,5	18	18		0,97	100				
	12	11514			13	20	19		0,98	100				
16 f	5	11585	6	9	5,3	15	12,5	12	0,94	100				
.....	6	11515			6,4	15	14,5		1,05	100				
5,0 mm	8	11516			8,4	15	16,5		1,18	100				
	10	11517			10,5	18	18,5		1,25	100				
	12	11518			13	20	19,5		1,43	100				
25 f	6	11520	7,7	10,7	6,4	16	15,9	15	1,55	100				
.....	8	11521			8,4	16	17,9		1,80	100				
6,5 mm	10	11522			10,5	18	19,9		1,88	100				
	12	11523			13	20	20,9		1,82	100				
35 f	6	11583	9,2	12,4	6,4	18	16,7	17	1,97	100				
.....	8	11525			8,4	18	18,7		2,20	100				
7,8 mm	10	11526			10,5	18,5	20,7		2,36	100				
	12	11527			13	23	21,7		2,23	100				
	16	11528			17	28	24,7		2,25	100				
50 f	6	11584	11,2	14,8	6,4	22	17,9	20	2,90	100				
.....	8	11530			8,4	22	19,9		3,15	100				
9,0 mm	10	11531			10,5	22	21,9		3,30	100				
	12	11532			13	23	22,9		3,36	100				
	16	11533			17	28	25,9		3,57	100				

Tubular cable lugs with 90° angle, 70 – 240 mm², for flexible conductors

material: Cu according to DIN EN 13600

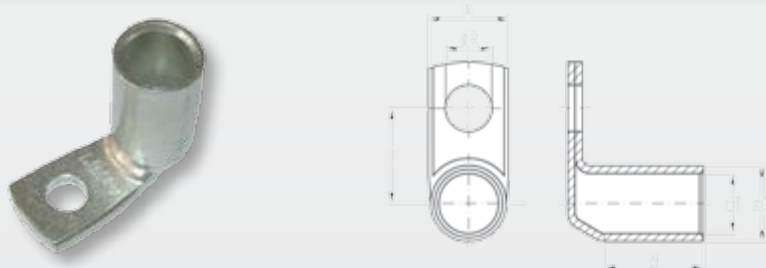
surface: tin plated



cross section mm ² min. cable-Ø	flat hole M	art.-no.	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	tool recommendation		
			d1	d3	d2	b	l	a					
70 f	8	11535	13,5	17,5	8,4	25	21,3	22	4,53	50	FW 10/70 140	MP 2 147, AP 10 152, HPI 10 + HPW 10 153	HPW 15 163, HPW 17 163
.....	10	11536			10,5	25	23,3		4,82	50			
11,0 mm	12	11537			13	25	24,3		5,07	50			
	16	11538			17	28	27,3		5,10	50			
	20	11539			21	31	31,3		5,40	50			
95 f	10	11540	15,5	20	10,5	29	25	25	7,50	50			
.....	12	11541			13	29	26		7,22	50			
13,0 mm	16	11542			17	29	28,5		7,50	50			
	20	11543			21	35	32,5		7,70	50			
120 f	10	11545	16,8	21,3	10,5	31	25,7	28	7,86	50			
.....	12	11546			13	31	26,7		8,02	50			
15,0 mm	16	11547			17	31	29,7		8,33	50			
	20	11548			21	35	33,7		8,61	50			
150 f	10	11549	19	24	10,5	35	27	29	10,06	25			
.....	12	11550			13	35	28		10,70	25			
16,3 mm	16	11551			17	35	31		11,04	25			
	20	11552			21	35	35		11,96	25			
185 f	12	11555	21	26	13	38	29	34	12,69	25			
.....	16	11556			17	38	32		13,46	25			
18,5 mm	20	11557			21	38	36		14,02	25			
240 f	12	11560	24	30	13	43	31	41	19,92	20			
.....	16	11561			17	43	34		20,90	20			
20,5 mm	20	11562			21	43	38		21,81	20			

Tubular cable lugs 90° angle, 35 – 240 mm² with narrow flange, for flexible conductors for switchgear connections

material: Cu according to DIN EN 13600, surface: tin plated

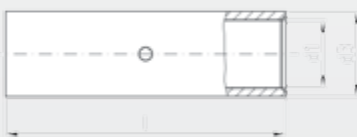

2

cross section mm ² min. cable-Ø	flat hole MM	art.-no. without inspection hole	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. with inspection hole	tool recommendation
			d1	d3	d2	b	l	a				
35 f	6	18383	9,2	12,4	6,4	15	16,7	17	1,80	25	18483	FW 10/70 140
.....												
7,8 mm												
50 f	6	18384	11,0	14,8	6,4	15	17,9	20	2,60	25	18484	
.....	8	18330			8,4	17	19,9		2,90	25	18430	
9,0 mm	10	18331			10,5	19	21,9		3,00	25	18431	
70 f	6	18399	13,4	17,5	6,4	18	20	22	4,30	25	18499	
.....	8	18335			8,4	18	22		4,50	25	18435	
11,0 mm	10	18336			10,5	19	24		4,80	25	18436	
	12	18337			13	22	27		4,80	25	18437	
95 f	6	18380	14,9	20	6,4	19	21	25	6,40	25	18480	MP 2 147, AP 10 152, HPI 10 + HPW 10 153
.....	8	18386			8,4	19	23		6,70	25	18486	
13,0 mm	10	18340			10,5	19	25		7,00	25	18440	
	12	18341			13	22	26		6,79	25	18441	
120 f	6	18344	16,3	21,3	6,4	19	21,7	28	7,30	10	18444	
.....	8	18394			8,4	19	23,7		7,70	10	18494	
15,0 mm	10	18345			10,5	19	25,7		7,90	10	18445	
	12	18346			13	22	26,7		8,90	10	18446	
150 f	6	18395	18,7	24	6,4	26	23	29	9,20	10	18495	
.....	8	18393			8,4	26	25		9,80	10	18493	
16,3 mm	10	18349			10,5	26	27		9,96	10	18449	HPW 15 163, HPW 17 163 API 20 156, HPI 20 + HPW 20 157, API 30 + HPI 30 161, API 35 + HPI 35 162
	12	18350			13	26	28		10,20	10	18450	
	16	18351			17	26	31		10,50	10	18451	
185 f	10	18354	21	26	10,5	30	28	34	11,90	10	18454	
.....	12	18355			13	30	29		11,90	10	18455	
18,5 mm	16	18356			17	30	32		12,30	10	18456	
240 f	10	18359	23,5	30	10,5	30	30	41	18,60	5	18459	
.....	12	18360			13	30	31		18,70	5	18460	
20,5 mm	16	18361			17	30	34		19,20	5	18461	

Tubular butt-connectors 10 – 240 mm², for flexible conductors

material: Cu according to DIN EN 13600

surface: tin plated – type: with wirestop



cross section mm ² min. cable-Ø	art.-no.	dimensions in mm			weight 100 pcs./kg	packing unit (pcs.)	tool recommendation			
		d1	d3	l						
10 f 4,0 mm	13660	5	8	30	0,83	100	FW 10/70 140	MP 2 147, AP 10 152, HPI 10 + HPW 10 153	API 20 156, HPI 20 + HPW 20 157, API 35 + HPI 35 162, HPW 15 163	API 30 + HPI 30 161, HPW 17 163
16 f 5,0 mm	13661	6	9	35	1,10	100				
25 f 6,5 mm	13662	7,7	10,7	40	1,50	100				
35 f 7,8 mm	13663	9,2	12,4	45	2,18	100				
50 f 9,0 mm	13664	11,2	14,8	50	3,24	100				
70 f 11,0 mm	13665	13,5	17,5	60	5,10	50				
95 f 13,0 mm	13666	15,5	20	65	7,49	50				
120 f 15,0 mm	13667	16,8	21,3	65	8,44	50				
150 f 16,3 mm	13668	19	24	70	10,56	25				
185 f 18,5 mm	13669	21	26	85	14,01	25				
240 f 20,5 mm	13670	24	30	100	22,73	10				

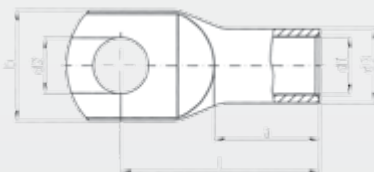


**Tubular cable lugs and connectors, copper
euro-series, compatible to many other brands**

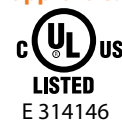
Tubular cable lugs 0.5 – 25 mm² euro-series

Material: Cu according to DIN EN 13600

Surface: tin plated – Type: without or optionally with inspection hole



approvals:

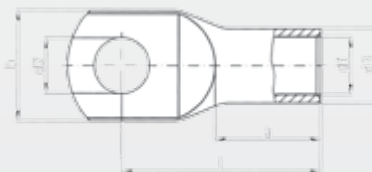


cross section mm²	flat hole M	art.-no. without inspection hole	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. with inspection hole	tool recommendation			
			d1	d3	d2	b	l	a							
0,5 – 0,75	3	13000*	1,4	3	3,2	6,5	12,5	6	0,07	100	–	WZ 21 118			
	4	13001*			4,3	8,5	14		0,08	100	–				
	5	13002*			5,3	10	15		0,10	100	–				
1,0 – 1,5	3	13005*	1,9	3,9	3,2	6,5	14	6	0,12	100	–				
	4	13006*			4,3	8,5	15		0,14	100	–				
	5	13007*			5,3	10	16		0,15	100	–				
	6	13008*			6,4	11	18		0,17	100	–				
2,5	4	13010*	2,4	4,4	4,3	8,5	15	6,5	0,16	100	–				
	5	13011*			5,3	10	16		0,18	100	–				
	6	13012*			6,4	11	18		0,19	100	–				
	8	13013*			8,4	13	20		0,22	100	–				
4	4	13015*	3	5	4,3	8,5	17	8	0,22	100	–				
	5	13016*			5,3	10	18		0,24	100	–				
	6	13017*			6,4	11	20		0,26	100	–				
	8	13018*			8,4	14	22		0,30	100	–				
6	4	16020	3,5	6,5	4,3	10	19	9	0,46	100	15215	WW 6/70 140			
	5	16021			5,3	10	20		0,47	100	15216				
	6	16022			6,4	11	21,5		0,54	100	15217				
	8	16023			8,4	15	24		0,59	100	15218				
	10	16024			10,5	18	26		0,64	100	15219				
	12	16025			13	19	27,5		0,64	100	15220				
10	4	15204	4,5	7	4,3	12	20	10	0,43	100	15221		WW 10/120 141		
	5	15205			5,3	12	21		0,48	100	15222				
	6	15206			6,4	12	22,5		0,51	100	15223				
	8	15207			8,4	15	25		0,58	100	15224				
	10	15208			10,5	18	27		0,63	100	15225				
	12	15209			13	20	28,5		0,63	100	15226				
16	4	15299	5,5	8,5	4,3	12	24	13	0,82	100	15227			Stilo 1 150, HPI 20 + HPW 20 157, HPW 17 163	
	5	15210			5,3	12	25		0,89	100	15228				
	6	15211			6,4	12	26,5		0,96	100	15229				
	8	15212			8,4	15	29		1,03	100	15230				
	10	15213			10,5	18	31		1,10	100	15231				
	12	15214			13	19	32		1,08	100	15232				
25	5	16296	7	10	5,3	15	33,5	15	1,35	100	15234				
	6	16215			6,4	15	31,5		1,31	100	15235				
	8	16216			8,4	16	33		1,29	100	15236				
	10	16217			10,5	18	34,5		1,46	100	15237				
	12	16218			13	20	36		1,55	100	15238				
	14	16219			15	22	39		1,66	100	15239				
	16	16295			17	24	42		1,73	100	15240				

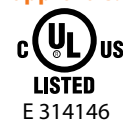
Tubular cable lugs 35 – 120 mm² euro-series

Material: Cu according to DIN EN 13600

Surface: tin plated – Type: without or optionally with inspection hole



approvals:



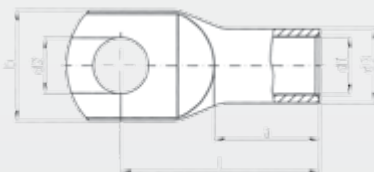
3

cross section mm ²	flat hole M	art.-no. without inspection hole	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. with inspection hole	tool recommendation
35	6	16220	8,5	12	6,4	17	33	17	2,07	100	15241	WW 6/70 140 AP 10 152, HPi 10 + HPW 10 153, API 20 156, HPi 20 + HPW 20 157, HPW 17 163
	8	16221			8,4	17	34		2,18	100	15242	
	10	16222			10,5	20	36,5		2,19	100	15243	
	12	16223			13	22	37,5		2,33	100	15244	
	14	16281			15	23	40		2,44	100	15245	
	16	16292			17	28	44		2,60	100	15246	
50	6	16224	10	14	6,4	20	37	19	3,01	100	15248	
	8	16225			8,4	20	39		3,04	100	15249	
	10	16226			10,5	20	40,5		3,13	100	15250	
	12	16227			13	23	42		3,13	100	15251	
	14	16282			15	23	44		3,51	100	15252	
	16	16228			17	27	46		3,55	100	15253	
	20	16297			21	30,5	52,5		3,89	100	15254	
70	6	16229	12	16,5	6,4	24	40,5	21	4,11	25	15256	
	8	16230			8,4	24	42,5		4,46	25	15257	
	10	16231			10,5	24	43,5		4,64	25	15258	
	12	16232			13	24	45		4,73	25	15259	
	14	16283			15	25	46		4,91	25	15260	
	16	16233			17	28	48,5		4,96	25	15261	
	20	16234			21	29	52		5,29	25	15262	
95	6	16290	13,5	18	6,4	26	43	23	4,95	25	15263	
	8	16235			8,4	26	46		5,36	25	15264	
	10	16236			10,5	26	47		5,51	25	15265	
	12	16237			13	26	48		5,51	25	15266	
	14	16284			15	26	51,5		5,89	25	15267	
	16	16238			17	28	51		5,85	25	15268	
	20	16239			21	30	55		6,13	25	15269	
120	8	16285	15	20	8,4	29	49,5	26	6,88	25	15271	
	10	16240			10,5	29	52		7,99	25	15272	
	12	16241			13	29	51,5		7,84	25	15273	
	14	16286			15	30	53		7,86	25	15274	
	16	16242			17	30	55		8,07	25	15275	
	20	16243			21	35	60		8,90	25	15276	

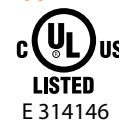
Tubular cable lugs 150 – 630 mm² euro-series

material: Cu according to DIN EN 13600

surface: tin plated – type: without or optionally with inspection hole



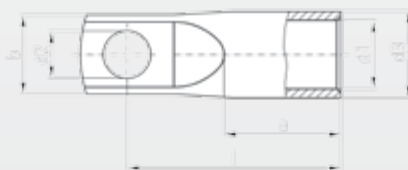
approvals:



cross section mm ²	flat hole M	art.-no. without inspection hole	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. with inspection hole	tool recommendation
			d1	d3	d2	b	l	a				
150	8	16244	16,8	21,3	8,4	31	55,5	29	7,89	25	15278	HPW 18 168 API 30 + HPI 30 161, HPW 17 163 API 20 156, HPI 20 + HPW 20 157, API 35 + HPI 35 162 AP 10 152, HPI 10 + HPW 10 153, MP 2 147
	10	16245			10,5	31	56,5		8,37	25	15279	
	12	16246			13	31	56		8,07	25	15280	
	14	16287			15	31	57		8,30	25	15281	
	16	16247			17	31	58		8,36	25	15282	
	20	16248			21	35	63		8,75	25	15283	
185	8	13293*	19	24	8,4	35	58	30	10,37	25	13793*	
	10	13249			10,5	35	59		10,61	25	13749	
	12	13250			13	35	58,5		10,60	25	13750	
	14	13288			15	35	61		10,72	25	13788	
	16	13251			17	35	63		10,86	25	13751	
	20	13252			21	35	66		11,33	25	13752	
240	8	13253*	21	26	8,4	38	67	35	12,40	25	13753*	
	10	13254			10,5	38	67		12,97	25	13754	
	12	13255			13	38	67		13,02	25	13755	
	14	13289			15	38	69		13,36	25	13789	
	16	13256			17	38	69,5		13,56	25	13756	
	20	13257			21	38	71		13,80	25	13757	
300	10	13259*	24	30	10,5	44	79,5	42	20,45	20	13759*	
	12	13260			13	44	82		21,18	20	13760	
	14	13290			15	44	84		22,19	20	13790	
	16	13261			17	44	85		21,94	20	13761	
	20	13262			21	44	85		22,40	20	13762	
400	10	13263	27,5	33,5	10,5	49	92	47	27,90	15	13763	
	12	13264			13	49	92		27,85	15	13764	
	16	13265			17	49	92		27,65	15	13765	
	20	13266			21	49	92		26,61	15	13766	
500	12	13269*	31	38	13	55,5	113	70	49,38	5	13769*	
	16	13270			17	55,5	113		49,38	5	13770	
	20	13271			21	55,5	113		48,56	5	13771	
630	16	13275*	34	41	17	60	115	70	51,35	5	13775*	
	20	13276*			21	60	115		50,60	5	13776*	

Tubular cable lugs 35 – 300 mm² with narrow flange, euro-series for switchgear connections

material: Cu according to DIN EN 13600, surface: tin plated



Type with inspection
hole or angle on request.

approval:

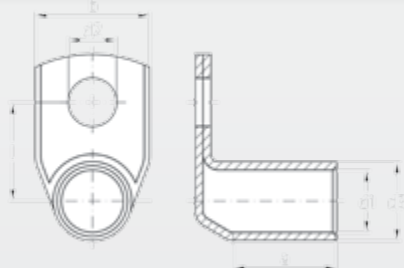


cross section mm ²	flat hole M	art.-no.	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
			d1	d3	d2	b	l	a			
35	6	18220	8,5	12	6,4	15	33	17	1,93	25	WW 6/70 140 WW 10/120 141, MP 1 144 API 20 156, HPI 20 + HPW 20 157, API 35 + HPI 35 162 API 30 + HPI 30 161, HPW 17 163, HPW 15 163
	8	18221*			8,4	15	35		1,90	25	
50	6	18224	10	14	6,4	15	37	19	2,69	25	
	8	18225			8,4	17	39		2,79	25	
	10	18226			10,5	17	41		2,99	25	
70	6	18229	11,8	16,5	6,4	17	41	21	3,99	25	
	8	18230			8,4	17	43		4,38	25	
	10	18231			10,5	17	45		4,40	25	
	12	18232			13	19	46		4,48	25	
95	6	18290	13,5	18	6,4	19	43	23	4,67	25	
	8	18235			8,4	19	45		4,90	25	
	10	18236			10,5	19	47		5,10	25	
	12	18237			13	19	48		5,20	25	
120	6	18280	14,7	20	6,4	20	49	26	6,43	10	
	8	18285			8,4	20	51		7,12	10	
	10	18240			10,5	20	53		6,70	10	
	12	18241			13	20	54		7,12	10	
150	6	18294	16,3	21,3	6,4	19	53	29	7,01	10	
	8	18244			8,4	19	55		7,31	10	
	10	18245			10,5	19	56		7,63	10	
	12	18246			13	22	59		7,63	10	
	16	18247*			17	26	62		8,33	10	
185	10	18249	18,7	24	10,5	26	60	30	10,47	10	
	12	18250			13	26	59,5		10,27	10	
	16	18251			17	26	64		10,81	10	
240	10	18254	21	26	10,5	30	65	35	12,80	5	
	12	18255			13	30	65		11,71	5	
	16	18256			17	30	68		12,11	5	
300	10	18259*	23,5	30	10,5	30	76	42	19,66	5	
	12	18260*			13	30	79		20,08	5	
	16	18261*			17	30	81		20,60	5	

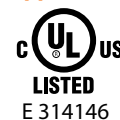
Tubular cable lugs with 90° angle, 0.5 – 35 mm² euro-series

material: Cu according to DIN EN 13600

surface: tin plated



approvals:



cross section mm²	flat hole M	art.-no.	dimensions in mm							weight 100 pcs./kg	packing unit (pcs.)	tool	
			d1	d3	d2	b	l	a	recommendation				
0,5 – 0,75	3	13100*	1,4	3	3,2	6,5	7,5	5	0,09	100	WZ 21 118		
	4	13101*			4,3	8,5	8,5		0,10	100			
	5	13102*			5,3	10	9,5		0,10	100			
1,0 – 1,5	3	13105*	1,9	3,9	3,2	6,5	8	5	0,16	100			
	4	13106*			4,3	8,5	9		0,16	100			
	5	13107*			5,3	10	10		0,16	100			
	6	13108*			6,4	11	12		0,15	100			
2,5	4	13110*	2,4	4,4	4,3	8,5	9,2	5,5	0,18	100			
	5	13111*			5,3	10	10,2		0,18	100			
	6	13112*			6,4	11	12,2		0,22	100			
	8	13113*			8,4	14	14,2		0,23	100			
4	4	13115*	3	5	4,3	8,5	9,5	7	0,25	100			
	5	13116*			5,3	10	10,5		0,24	100			
	6	13117*			6,4	11	12,5		0,29	100			
	8	13118*			8,4	14	14,5		0,30	100			
6	4	16120	3,5	6,5	4,3	10	10,3	8	0,52	100			
	5	16121			5,3	11	11,2		0,56	100			
	6	16122			6,4	11	13,3		0,62	100			
	8	16123			8,4	15	15,3		0,64	100			
	10	16124			10,5	18	17,2		0,68	100			
	12	16125			13	20	18,2		0,66	100			
10	5	15305	4,5	7	5,3	12	11,5	9	0,54	100			
	6	15306			6,4	12	12,5		0,59	100			
	8	15307			8,4	15	15,5		0,67	100			
	10	15308			10,5	18	17,5		0,70	100			
	12	15309			13	20	18,5		0,70	100			
16	5	15310	5,5	8,5	5,3	12	13	12	1,07	100			
	6	15311			6,4	12	14,3		1,15	100			
	8	15312			8,4	15	16,3		1,20	100			
	10	15313			10,5	18	18,3		1,23	100			
	12	15314			13	20	19,3		1,23	100			
25	6	16315	7	10	6,4	15	15,5	14	1,35	100			
	8	16316			8,4	16	17,5		1,43	100			
	10	16317			10,5	18	19,5		1,57	100			
	12	16318			13	20	20,5		1,51	100			
	14	16319			15	22	22,5		1,69	100			
35	6	16320	8,5	12	6,4	17	16,5	16	2,10	100			
	8	16321			8,4	17	18,5		2,31	100			
	10	16322			10,5	20	20,5		2,36	100			
	12	16323			13	22	21,5		2,37	100			
	14	16381			15	23	23,5		2,48	100			
	16	16392			17	28	24,5		2,48	100			

WW 6/70 140

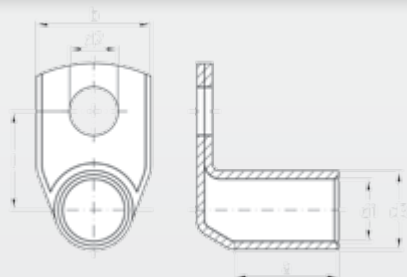
WW 10/120 141

AP 10 152, HPI 10 + HPW 10 153, HPW 17 163 Stilo 1 150,
API 30 + HPI 30 161

Tubular cable lugs with 90° angle, 50 – 300 mm² euro-series

material: Cu according to DIN EN 13600

surface: tin plated



approvals:



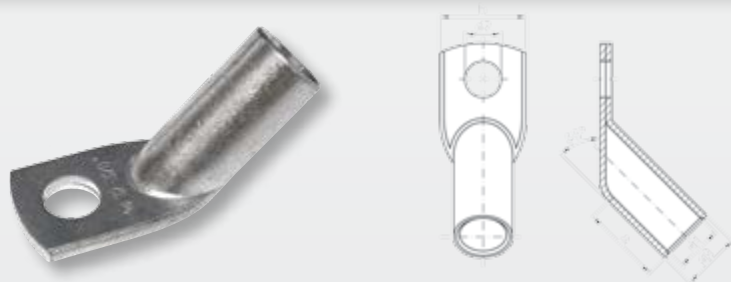
3

cross section mm ²	flat hole M	art.-no.	dimensions in mm						weight 100 pcs./kg	packing units (pcs.)	tool recommendation		
			d1	d3	d2	b	l	a					
50	6	16324	10	14	6,4	20	17,5	18	3,00	100	WW 6/70 140	WW 10/120 141	AP 10 152, HPI 10 + HPW 10 153
	8	16325			8,4	20	19,5		3,22	100			
	10	16326			10,5	20	21,5		3,32	100			
	12	16327			13	23	22,5		3,28	100			
	14	16382			15	23	24,5		3,37	100			
	16	16328			17	27	28,5		3,63	100			
	20	16397			21	30	32,5		3,89	100			
70	6	16329	12	16,5	6,4	24	18,8	20	4,41	25			
	8	16330			8,4	24	20,8		4,86	25			
	10	16331			10,5	24	22,8		5,06	25			
	12	16332			13	24	23,8		4,94	25			
	14	16383			15	25	25,8		5,19	25			
	16	16333			17	28	26,8		5,11	25			
	20	16334			21	29	30,8		5,26	25			
95	8	16335	13,5	18	8,4	26	21,5	22	5,33	25			
	10	16336			10,5	26	23,5		5,59	25			
	12	16337			13	26	24,5		5,66	25			
	14	16384			15	26	26,5		5,89	25			
	16	16338			17	28	27,5		6,00	25			
120	8	16385	15	20	8,4	29	22,5	25	7,63	25			
	10	16340			10,5	29	24,5		8,07	25			
	12	16341			13	29	25,5		7,99	25			
	16	16342			17	30	28,5		8,46	25			
150	8	16344	16,8	21,3	8,4	31	25,7	28	8,03	25			
	10	16345			10,5	31	25,7		8,07	25			
	12	16346			13	31	26,7		8,29	25			
	16	16347			17	31	29,7		8,50	25			
	20	16348			21	35	33,7		8,89	25			
185	10	16349	19	24	10,5	35	27	29	11,41	25			
	12	16350			13	35	28		12,04	25			
	16	16351			17	35	31		12,48	25			
	20	16352			21	35	35		12,70	25			
240	10	16354	21	26	10,5	38	28	34	13,32	25			
	12	16355			13	38	29		13,40	25			
	16	16356			17	38	32		13,76	25			
	20	16357			21	38	36		14,23	25			
300	12	13360	24	30	13	43	31	41	19,92	20			
	16	13361			17	43	34		20,90	20			
	20	13362			21	43	38		21,81	20			

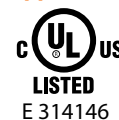
Tubular cable lugs with 45° angle, 10 – 70 mm² euro-series

material: Cu according to DIN EN 13600

surface: tin plated



approvals:

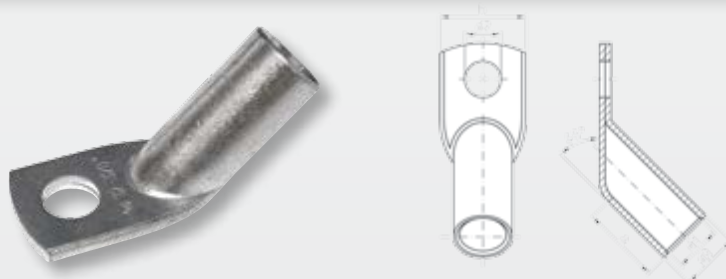


cross section mm ²	flat hole M	art.-no.	dimensions in mm					weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
			d1	d3	d2	b	a			
10	5	15134	4,5	7	5,3	12	9	0,55	100	WW 6/70 140, WW 10/120 141, MP 1 144 AP 10 152, HPI 10 + HPW 10 153, HPW 15 163 API 30 + HPI 30 161, API 35 + HPI 35 162, HPW 17 163, Stilo 1 150
	6	15135			6,4	12		0,58	100	
	8	15136			8,4	15		0,65	100	
	10	15137*			10,5	18		0,66	100	
16	5	15139	5,5	8,5	5,3	12	12	0,95	100	
	6	15140			6,4	12		1,02	100	
	8	15141			8,4	15		1,17	100	
	10	15142			10,5	18		1,17	100	
25	6	16145	7	10	6,4	15	14	1,39	100	
	8	16146			8,4	16		1,51	100	
	10	16147			10,5	18		1,66	100	
	12	16148			13	20		1,70	100	
35	6	16150	8,5	12	6,4	17	16	2,17	50	
	8	16151			8,4	17		2,23	50	
	10	16152			10,5	20		2,34	50	
	12	16153			13	22		2,40	50	
50	6	16154*	10	14	6,4	20	18	2,94	50	
	8	16155			8,4	20		3,34	50	
	10	16156			10,5	20		3,65	50	
	12	16157			13	23		3,65	50	
70	8	16160	12	16,5	8,4	24	20	4,90	25	
	10	16161			10,5	24		5,23	25	
	12	16162			13	24		5,34	25	

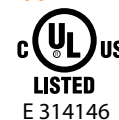
Tubular cable lugs with 45° angle 95 – 300 mm² euro-series

material: Cu according to DIN EN 13600

surface: tin plated



approvals:



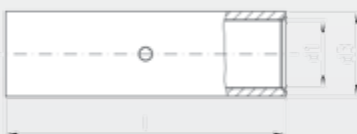
3

cross section mm ²	flat hole M	art.-no.	dimensions in mm					weight 100 pcs./kg	packing unit (pcs.)	tool recommendation			
			d1	d3	d2	b	a						
95	8	16165	13,5	18	8,4	26	22	6,18	25	WW 10/120 141	AP 10 152, HPI 10 + HPW 10 153	API 20 156, HPI 20 + HPW 20 157	API 30 + HPI 30 161, API 35 + HPI 35 162, HPW 15 + HPW 17 163
	10	16166			10,5	26		6,20	25				
	12	16167			13	26		6,20	25				
	16	16168*			17	28		6,80	25				
120	8	16169	15	20	8,4	29	25	7,80	25				
	10	16170			10,5	29		8,90	25				
	12	16171			13	29		8,91	25				
	16	16172			17	30		9,31	25				
150	8	16173*	16,8	21,3	8,4	31	28	11,31	25				
	10	16174			10,5	31		9,80	25				
	12	16175			13	31		9,68	25				
	16	16176			17	31		10,12	25				
	20	16177*			21	35		10,12	25				
185	10	13178	19	24	10,5	35	29	12,35	20				
	12	13179			13	35		12,24	20				
	16	13180			17	35		12,84	20				
	20	13181			21	35		13,99	20				
240	12	13183	21	26	13	38	34	15,46	15				
	16	13184			17	38		16,51	15				
	20	13185			21	38		17,04	15				
300	12	13187*	24	30	13	43	41	25,70	15				
	16	13188*			17	43		25,68	15				
	20	13189*			21	43		27,30	15				

Tubular butt-connectors 0.5 – 630 mm² euro-series

material: Cu according to DIN EN 13600

surface: tin plated – type: with wirestop

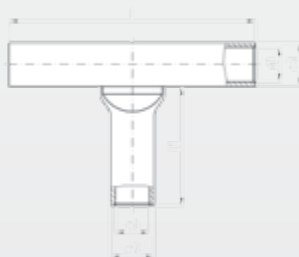


cross section mm²	art.-no.	dimensions in mm			weight 100 pcs./kg	packing unit (pcs.)	tool recommendation																
		d1	d3	l																			
0,5 – 0,75	13450	1,4	3	15	0,08	100	WZ 21 118	DP 6/95 138	AP 10 152, HPI 10 + HPW 10 153	API 30 + HPI 30 161, HPW 17 163	HPW 18 168												
1,0 – 1,5	13452	1,9	3,9	15	0,12	100																	
2,5	13454	2,4	4,4	16	0,15	100																	
4	13456	3	5	19	0,21	100																	
							WW 10/120 141																
6	16458	3,5	6,5	25	0,51	100																	
10	15460	4,5	7	30	0,60	50																	
16	15462	5,5	8,5	35	1,00	50																	
25	16464	7	10	40	1,41	50																	
35	16466	8,5	12	45	2,16	50																	
50	16468	10	14	50	3,32	50																	
70	16470	12	16,5	55	4,91	50																	
95	16472	13,5	18	60	6,09	50																	
120	16474	15	20	65	7,88	25																	
150	13476	16,8	21,3	70	8,68	25																	
185	13478	19	24	75	11,63	25																	
240	13480	21	26	85	14,22	25																	
300	13482	24	30	100	22,40	10																	
400	13484	27,5	33,5	100	26,17	10																	
500	13486	31	38	140	47,30	5																	
630	13488	34	41	160	61,75	5																	

Tubular T-connectors 1.0 – 300 mm² euro-series

material: Cu according to DIN EN 13600

surface: tin plated



cross section mm ²	art.-no.	dimensions in mm				weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
		d1	d3	l	l1			
1,0 – 1,5	13952	1,9	3,9	30	16	0,36	50	DP 6/95 138 WZ 21 118 WW 10/120 141 API 30 + HPI 30 161
2,5	13954	2,4	4,4	30	16	0,45	50	
4	13956	3	5	35	16,5	0,57	50	
6	16958	3,5	6,5	35	17	1,08	50	
10	15960	4,5	7	45	25	1,40	50	
16	15962	5,5	8,5	50	26	2,28	50	
25	16964	7	10	50	27	2,40	25	
35	16966	8,5	12	60	31	4,50	25	
50	16968	10	14	72	35	7,20	10	
70	16970	12	16,5	77	37	10,35	10	
95	16972	13,5	18	88	45	12,70	10	
120	16974	15	20	106	53	17,80	10	
150	13976	16,8	21,3	120	58	23,42	5	
185	13978	19	24	110	42	25,62	5	
240	13980	21	26	135	55	33,94	5	
300	13982	24	30	140	55	47,70	3	

Assortment box with tubular cable lugs euro-series

material: varnished steel, with 12 small compartments and 1 tool compartment

measurements: 405 x 250 x 50 mm



art.-no.: 90891

special filling
on request

contents of tubular cable lugs, euro-series

quantity	cross section mm ²	flat hole diameter M	art.-no.
25 x	6	6	16022
25 x	6	8	16023
25 x	10	6	15206
25 x	10	8	15207
25 x	16	8	15212
25 x	16	10	15213
25 x	25	8	16216
25 x	25	10	16217
20 x	35	8	16221
20 x	35	10	16222
20 x	50	10	16226
20 x	50	12	16227
1 x WW 6/50			90179

assortment box without contents

art.-no.: 90877

Connection systems for special applications



For connecting massive conductors to several massive flat-copper-conductors securely we supply connectors and the referring crimpingsystems especially designed for your field of application. Before delivery we examine and document the quality of each connection carefully.

We produce round-forming tools for rounding or reforming one or several flat-copper-conductors which are especially designed for your needs.



Cross- or T-connectors with various pipe tees for connecting different types of conductors as well as thereon adjusted crimping tools are designed on customers request.

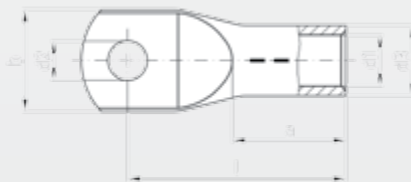


Tubular compression cable lugs, copper, DIN 46235
Tubular compression cable lugs 90° angled, copper,
tube measurements in accordance with DIN 46235
Tubular compression cable lugs, 1- and 2-conductor version,
with 2 holes, copper
Compression bolts, copper
Tubular compression connectors, copper, DIN 46267 part 1
Tubular compression connectors with oil stop, copper,
tube measurements according to DIN 46267 part 1
Compression tab-connectors, H-shape, copper

Tubular compression cable lugs 6 – 35 mm², DIN 46235

material: Cu according to DIN EN 13600

surface: tin plated or optionally uncoated



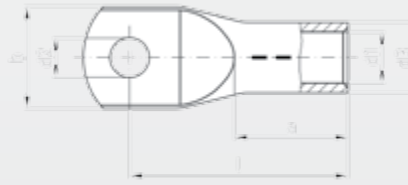
* not standardized,
tube measurements in
accordance with DIN 46235

cross section mm ²	flat hole M	art.-no. tin plated	die code	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. uncoated	tool recommendation
				d1	d3	d2	b	l	a				
6	5	14021	5	3,7	5,5	5,3	8,5	24	10	0,31	100	14121	DW 6/70 140 DW 10/120 141
	6	14022				6,4	9	24		0,34	100	14122	
	8*	14023				8,4	13	26		0,35	100	14123	
10	5	14205	6	4,4	6	5,3	10	27	10	0,35	100	14605	
	6	14206				6,4	10	27		0,37	100	14606	
	8*	14207				8,4	13	28		0,38	100	14607	
	10*	14208				10,5	15	29		0,38	100	14608	
16	5*	14210	8	5,5	8,5	5,3	13	36	20	1,22	100	14610	
	6	14211				6,4	13	36		1,27	100	14611	
	8	14212				8,4	13	37		1,30	100	14612	
	10	14213				10,5	16,5	38		1,32	100	14613	
	12*	14214				13	19	40		1,35	100	14614	
25	6	14215	10	7	10	6,4	14	39	20	1,62	100	14615	
	8	14216				8,4	17	39		1,73	100	14616	
	10	14217				10,5	17	40,5		1,77	100	14617	
	12	14218				13	18	40,5		1,72	100	14618	
	16*	14219				17	22	45		1,99	100	14619	
35	6*	14220	12	8,2	12,5	6,4	17,5	42,5	20	3,12	100	14620	
	8	14221				8,4	18	42		3,19	100	14621	
	10	14222				10,5	20	42,5		3,17	100	14622	
	12	14223				13	21	44		3,11	100	14623	
	16*	14224				17	28	47		3,14	100	14624	
	20*	14290				21	30	53		3,73	100	14690	

Tubular compression cable lugs 50 – 120 mm², DIN 46235

material: Cu according to DIN EN 13600

surface: tin plated or optionally uncoated



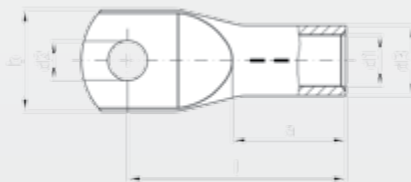
* not standardized,
tube measurements in
accordance with DIN 46235

cross section mm ²	flat hole M	art.-no. tin plated	die code	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. uncoated	tool recommendation
				d1	d3	d2	b	l	a				
50	6*	14284	14	9,8	14,5	6,4	20	52	28	4,67	100	14684	DW 6/70 140 DW 10/120 141, MP 1 144 AP 10 152, HPI 10 153, API 20 156, HPI 20 157, API 30 + HPI 30 161, HPW 17 163 MP 2 147, API 35 + HPI 35 162, HPW 15 163
	8	14225				8,4	20	52		5,00	100	14625	
	10	14226				10,5	22	52		4,94	100	14626	
	12	14227				13	23	52		4,91	100	14627	
	14*	14293				15	26	53,5		4,94	100	14693	
	16	14228				17	28	55,5		5,04	100	14628	
	20*	14229				21	30	61,5		5,56	100	14629	
70	8	14230	16	11,3	16,5	8,4	24	56	28	6,54	50	14630	
	10	14231				10,5	24	56		6,54	50	14631	
	12	14232				13	24	56,5		6,57	50	14632	
	14*	14292				15	24	55,5		6,00	50	14692	
	16	14233				17	29	57		6,92	50	14633	
	20*	14234				21	31	61		6,99	50	14634	
95	8*	14235	18	13,5	19	8,4	28	65	35	9,36	50	14635	
	10	14236				10,5	28	65,5		9,55	50	14636	
	12	14237				13	28	65,5		9,45	50	14637	
	14*	14285				15	28	65,5		9,43	50	14685	
	16	14238				17	30	65,5		9,44	50	14638	
	20*	14239				21	33	71		9,86	50	14639	
120	8*	14282	20	15,5	21	8,4	31	70	35	11,35	50	14682	
	10	14240				10,5	31	70		11,40	50	14640	
	12	14241				13	31	70,5		11,43	50	14641	
	14*	14283				15	31	70		11,41	50	14683	
	16	14242				17	31,5	70		11,36	50	14642	
	20	14243				21	36	72		11,51	50	14643	

Tubular compression cable lugs 150 – 300 mm², DIN 46235

material: Cu according to DIN EN 13600

surface: tin plated or optionally uncoated



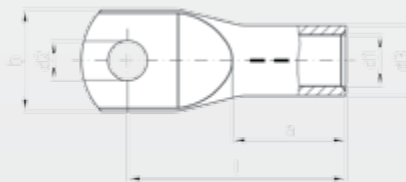
* not standardized,
tube measurements in
accordance with DIN 46235

cross section mm ²	flat hole M	art.-no. tin plated	die code	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. uncoated	tool recommendation
150	8*	14244	22	17	23,5	8,4	34	79	35	16,40	25	14644	AP 10 152, HPI 10 + HPW 10 153
	10	14245				10,5	34	79		16,46	25	14645	
	12	14246				13	34	78,5		16,53	25	14646	
	14*	14294				15	34	78		16,49	25	14694	
	16	14247				17	34	78		16,35	25	14647	
	20	14248				21	38	78		16,34	25	14648	
185	8*	14288	25	19	25,5	8,4	37	83	40	18,50	25	14688	MP 2 147, API 35 + HPI 35 162, HPW 15 163
	10	14249				10,5	37	83		18,50	25	14649	
	12	14250				13	37	82,5		18,95	25	14650	
	14*	14295				15	37	82		18,96	25	14695	
	16	14251				17	37	82		19,41	25	14651	
	20	14252				21	40	83		19,01	25	14652	
240	10*	14254	28	21,5	29	10,5	42	92	40	27,10	20	14654	API 30 + HPI 30 161, HPW 18 168, API 20 156, HPI 20 + HPW 20 157, HPW 17 163
	12	14255				13	42,5	92		26,65	20	14655	
	14*	14287				15	42,5	92		26,73	20	14687	
	16	14256				17	42,5	92		27,45	20	14656	
	20	14257				21	45	92		27,67	20	14657	
300	10*	14259	32	24,5	32	10,5	48,5	104	50	34,80	10	14659	
	12*	14260				13	48,5	104		34,50	10	14660	
	14*	14291				15	48,5	104		34,60	10	14691	
	16	14261				17	48,5	100		34,16	10	14661	
	20	14262				21	48,5	100		34,46	10	14662	

Tubular compression cable lugs 400 – 1000 mm², DIN 46235

material: Cu-HCP according to DIN EN 13600

surface: tin plated or optionally uncoated



* not standardized,
tube measurements in
accordance with DIN 46235

cross section mm ²	flat hole M	art.-no. tin plated	die code	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. uncoated	tool recommendation
				d1	d3	d2	b	l	a				
400	10*	14263	38	27,5	38,5	10,5	55	117	70	71,55	5	14663	HPW 18 168
	12*	14264				13	55	117		71,70	5	14664	
	14*	14296				15	55	117		71,98	5	14696	
	16	14265				17	55	117		71,75	5	14665	
	20	14266				21	55	117		70,64	5	14666	
500	12*	14269	42	31	42	13	60	130	70	86,92	5	14669	
	14*	14289				15	60	130		87,50	5	14689	
	16*	14270				17	60	130		88,90	5	14670	
	20	14271				21	60	130		87,66	5	14671	
625	12*	14273	44	34,5	44	13	63	135	80	84,27	5	14673	
	14*	14274				15	63	135		83,89	5	14674	
	16*	14275				17	63	135		82,05	5	14675	
	20	14276				21	63	135		82,05	5	14676	
800	14*	14279	52	40	52	15	75	165	100	148,60	2	14679	
	16*	14280				17	75	165		149,42	2	14680	
	20	14281				21	75	165		145,55	2	14681	
1000	16*	14297	58	44	58	17	83	167	100	193,70	2	14697	
	20	14286				21	83	167		189,00	2	14686	

Tubular compression cable lugs with 90° angle, 10 – 70 mm²

tube measurements according to DIN 46235

material: Cu according to DIN EN 13600; surface: tin plated or optionally uncoated



cross section mm ²	flat hole M	art.-no. tin plated	die code	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. uncoated	tool recommendation
d1	d3	d2	b	l	a								
10	5	14305	6	4,4	6	5,3	10	11	10	0,31	100	14705	API 20 156, HPI 20 + HPW 20 157, API 30 + HPI 30 161, HPW 17 163 AP 10 152, HPI 10 + HPW 10 153, API 35 + HPI 35 162 DW 6/70 140, DW 10/120 141, MP 1 144, MP 2 147
	6	14306				6,4	10	13		0,35	100	14706	
	8	14307				8,4	13	15		0,37	100	14707	
16	6	14311	8	5,5	8,5	6,4	13	14,3	20	1,27	100	14711	
	8	14312				8,4	13	16,3		1,30	100	14712	
	10	14313				10,5	16,5	18,3		1,41	100	14713	
	12	14314				13	19	19,3		1,17	100	14714	
25	6	14315	10	7	10	6,4	15	15,5	20	1,68	100	14715	
	8	14316				8,4	16	17,5		1,76	100	14716	
	10	14317				10,5	16	19,5		1,84	100	14717	
	12	14318				13	19	20,5		1,82	100	14718	
35	6	14320	12	8,2	12,5	6,4	17	16,8	20	2,74	100	14720	
	8	14321				8,4	17	18,8		3,04	100	14721	
	10	14322				10,5	19	20,8		3,12	100	14722	
	12	14323				13	21	21,8		3,26	100	14723	
50	8	14325	14	9,8	14,5	8,4	20	19,8	28	4,62	100	14725	
	10	14326				10,5	22	21,8		4,82	100	14726	
	12	14327				13	24	22,8		5,03	100	14727	
	16	14328				17	27	25,8		5,06	100	14728	
70	8	14330	16	11,3	16,5	8,4	24	20,8	28	5,93	25	14730	
	10	14331				10,5	24	22,8		6,51	25	14731	
	12	14332				13	24	23,8		6,56	25	14732	
	16	14333				17	29	26,8		6,96	25	14733	

Tubular compression cable lugs with 90° angle, 95 – 300 mm² tube measurements according to DIN 46 235

material: Cu according to DIN EN 13600; surface: tin plated or optionally uncoated

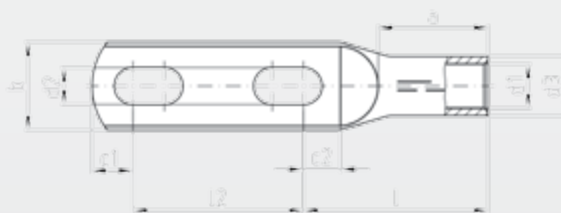


cross section mm ²	flat hole M	art.-no. tin plated	die code	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	art.-no. uncoated	tool recommendation
95	8	14335	18	13,5	19	8,4	28	22	35	8,50	25	14735	DW 10/120 141, MP 1 144 AP 10 152, HPI 10 + HPW 10 153 MP 2 147, API 35 + HPI 35 162, HPW 15 163 API 20 156, HPI 20 + HPW 20 157, API 30 + HPI 30 161, HPW 17 163, HPW 18 168
	10	14336				10,5	28	24		9,37	25	14736	
	12	14337				13	28	25		9,49	25	14737	
	16	14338				17	32	28		9,67	25	14738	
120	10	14340	20	15,5	21	10,5	32	25,5	35	10,84	25	14740	
	12	14341				13	32	26,5		11,00	25	14741	
	16	14342				17	32	29,5		11,16	25	14742	
	20	14343				21	38	33,5		12,39	25	14743	
150	8	14344	22	17	23,5	8,4	34	26,8	35	13,87	25	14744	
	10	14345				10,5	34	26,8		14,16	25	14745	
	12	14346				13	34	27,8		14,41	25	14746	
	16	14347				17	34	30,8		14,83	25	14747	
	20	14348				21	34	34,8		15,51	25	14748	
185	8	14396	25	19	25,5	8,4	37	25,8	40	15,70	25	14796	
	10	14349				10,5	37	27,8		16,81	25	14749	
	12	14350				13	37	28,8		17,29	25	14750	
	16	14351				17	37	31,8		18,09	25	14751	
	20	14352				21	40	35,8		20,20	25	14752	
240	12	14355	28	21,5	29	13	42	30,5	40	22,61	20	14755	
	16	14356				17	42	33,5		24,46	20	14756	
	20	14357				21	42	37,5		25,59	20	14757	
300	12	14360	32	24,5	32	13	48,5	32	50	29,08	10	14760	
	16	14361				17	48,5	35		30,51	10	14761	
	20	14362				21	48,5	39		38,60	10	14762	

Compression cable lugs 70 – 120 mm²

with two holes á 13 x 24 mm, tube measurements according to DIN 46235

material: Cu according to DIN EN 13600, surface: tin plated

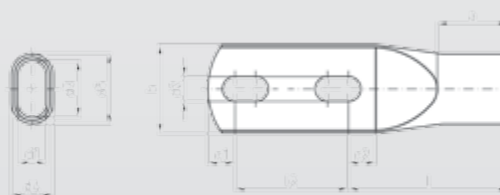


cross section mm ²	flat hole M	art.-no.	die code	dimensions in mm									weight 100 pcs./kg	packing unit (pcs.)	tool recommendation		
				d1	d3	d2	b	l	l2	a	c1	c2					
70	2 x M 12	14032	16	11,3	16,5	13	24	61,5	40-62	28	14,5	14,5	10,88	25	10/120 DW AP 10 HPi 10 APi 30 HPW 17		
95	2 x M 12	14037	18	13,5	19	13	28	63	40-62	35	14,5	15	14,30	25			
120	2 x M 12	14041	20	15,5	21	13	31	65	40-62	35	14,5	13	16,76	25			

Compression cable lugs 70 – 120 mm²

with two holes á 13 x 24 mm, tube measurements according to DIN 46235

material: Cu according to DIN EN 13600, surface: tin plated

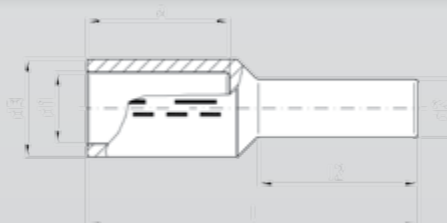


cross section mm ²	flat hole M	art.-no.	dimensions in mm											weight 100 pcs./kg	packing unit (pcs.)	tool recommendation	
			d1	d3	d4	d5	d2	b	l	l2	a	c1	c2				
2 x 70	2 x M 12	14132	11,5	23,3	18	29,8	13	37	82	40-62	38,5	14,5	14,5	26,00	10	HPi 30 API 30	HPW 17
2 x 95	2 x M 12	14137	14	26,1	22	33,6	13	42	92	40-62	45,5	14,5	14,5	36,90	5		
2 x 120	2 x M 12	14141	14,9	30,8	22,4	38,0	13	47	100	40-62	50,5	14,5	14,5	43,80	5		

Compression bolts 120 – 240 mm²

tube measurements according to DIN 46235

material: Cu according to DIN EN 13601, surface: tin plated



cross section mm²	flat hole M	art.- no.	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	tool recommendation		
			d1	d3	d2	l	l2	a					
120	14514	20	15,5	21	13	79	38	35	10,60	10	API 20 HPi 20	API 30 HPi 30	HPW 17
150	14516	22	17	23,5	14	79	38	35	13,30	10			
185	14518	25	19	25,5	16	90	44	40	17,65	5			
240	14520	28	21,5	29	18	90	44	40	23,00	5			

Tubular compression connectors 6 – 1000 mm² DIN 46267 part 1

material: Cu according to DIN EN 13600

surface: tin plated or optionally uncoated



Tubular compression connectors for medium voltage conductors 10 – 30 kV are available on request!

cross section mm ²	art.-no. tin plated	die code	dimensions in mm			weight 100 pcs./kg	packing unit (pcs.)	art.-no. uncoated	tool recommendation		
d1	d3	l									
6	14458	5	3,7	5,5	30	0,35	100	14858	AP 10 152, HPI 10 + HPW 10 153	DW 10/120 141	API 30 + HPI 30 161, HPW 17 163
10	14460	6	4,4	6	30	0,35	100	14860			
16	14462	8	5,5	8,5	50	1,51	100	14862			
25	14464	10	7	10	50	1,86	100	14864			
35	14466	12	8,2	12,5	50	3,20	100	14866			
50	14468	14	9,8	14,5	56	4,64	50	14868			
70	14470	16	11,3	16,5	56	5,64	50	14870			
95	14472	18	13,5	19	70	8,98	50	14872			
120	14474	20	15,5	21	70	10,27	25	14874			
150	14476	22	17	23,5	80	14,96	25	14876			
185	14478	25	19	25,5	85	16,78	25	14878	HPW 18 168		
240	14480	28	21,5	29	90	23,20	15	14880			
300	14482	32	24,5	32	100	30,52	10	14882			
400	14484	38	27,5	38,5	150	76,70	5	14884			
500	14486	42	31	42	160	92,28	5	14886			
625	14488	44	34,5	44	160	86,93	5	14888			
800	14490	52	40	52	200	152,00	3	14890			
1000	14492	58	44	58	200	197,00	3	14892			

Assortment box with tubular compression cable lugs, DIN 46235

material: varnished steel, with 12 small compartments and 1 tool-compartment

measurements: 405 x 250 x 50 mm



art.-no.: 90893

**special filling
on request**

Contents of tubular compression cable lugs, DIN 46235:

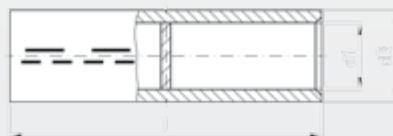
quantity	cross section	flat hole	art.-no.
25 x	6	6	14022
25 x	6	8	14023
25 x	10	6	14206
25 x	10	8	14207
25 x	16	8	14212
25 x	16	10	14213
25 x	25	8	14216
25 x	25	10	14217
20 x	35	8	14221
20 x	35	10	14222
15 x	50	10	14226
15 x	50	12	14227
1 x DW 6/50, 6-50			90178

assortment box without contents

art.-no.: 90877

Tubular compression connectors 35 – 240 mm², with oil stop

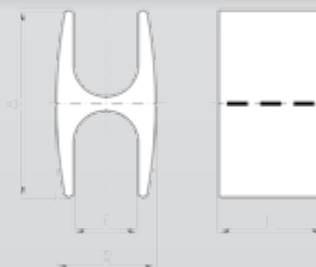
Tube measurements according to DIN 46 267 part 1 The copper separation in the middle guarantees a complete **oilstop**. material: Cu-HCP according to DIN EN 13600, surface: tin plated or optionally uncoated



cross section mm ²	art.-no. tin plated	die code	dimensions in mm			weight 100 pcs./kg	packing unit (pcs.)	art.-no. uncoated	tool recommendation			
			d1	d3	l							
35	14566	12	8,2	12,5	50	3,18	100	14966	DW 10/120 141	AP 10 152, HPI 10 + HPW 10 153	API 20 156, HPI 20 + HPW 20 157	API 30 + HPI 30 161, HPW 17 163
50	14568	14	9,8	14,5	56	4,65	50	14968				
70	14570	16	11,3	16,5	56	5,85	50	14970				
95	14572	18	13,5	19	70	9,15	50	14972				
120	14574	20	15,5	21	70	10,20	25	14974				
150	14576	22	17	23,5	80	15,10	25	14976				
185	14578	25	19	25,5	85	17,10	25	14978				
240	14580	28	21,5	29	90	24,00	15	14980				

Compression tab-connectors, H-shape for copper conductors according to DIN 48201

material: Cu according to DIN EN 13601, surface: tin plated or optionally uncoated



cross section (mm ²)		art.-no. tin plated	dimensions in mm				weight 100 pcs./kg	packing unit (pcs.)	art.-no. uncoated	tool recommendation		
main conductor	tab conductor		A	B	C	L						
70	70	14420	34	17	10,8	28	6,19	25	14820	HPI 30 161	API 30 161	HPW 17 163
95	95	14422	40	22	13,0	30	9,69	25	14822			
120	120	14424	45	24	15,5	25	9,52	25	14824			



Tubular compression cable lugs, aluminium
Tubular compression connectors, aluminium
Tubular compression connectors, aluminium 10 - 30 kV

Bi-metallic compression cable lugs, aluminium/copper

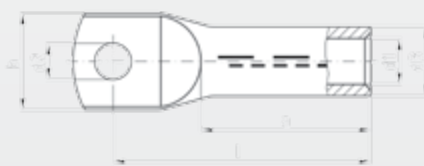
Bi-metallic compression connectors, aluminium/copper

Bi-metallic washers

Tubular cable lugs, high grade nickel
Tubular connectors, high grade nickel
Tubular cable lugs, stainless steel

Tubular compression cable lugs 16 – 185 mm², for aluminium conductors DIN 48 201-1 dimensions in accordance to DIN 46329 und DIN 46267 part 2

material: Al 99,5, surface: uncoated, sleeves are prefilled with compound



*rm = round stranded
sm = sector stranded

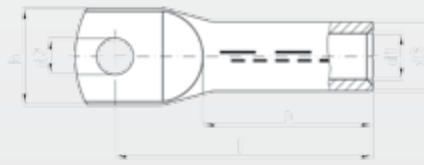
**se = sector solid
(Sector solid shaped conductors must be rounded with dies for round-forming.)

cross section (mm ²)		flat hole	art.-	die	dimensions in mm						weight	packing unit	tool
rm/sm*	se**	M	no.	code	d1	d3	d2	b	l	a	100 pcs./kg	(pcs.)	recommendation
16	25	8	21212	12	5,6	12	8,4	16	52	26	0,96	50	DW 6/70 140
		10	21213				10,5	18	52		0,97	50	
25	35	8	21216	12	6,8	12	8,4	16	60	34	1,48	50	
		10	21217				10,5	18	60		1,53	50	
35	50	8	21221	14	8	14	8,4	20	67	40	2,45	50	
		10	21222				10,5	20	67		2,45	50	
		12	21223				13	20	67		2,35	50	
50	70	8	21225	16	10	16	8,4	23	74	42	3,29	25	
		10	21226				10,5	23	74		2,88	25	
		12	21227				13	23	74		3,38	25	
70	95	10	21231	18	11,5	18,5	10,5	28	84	50	4,77	25	
		12	21232				13	28	87		4,73	25	
95	120	10	21236	22	13,2	22	10,5	32	90	55	7,01	10	HPW 18 168
		12	21237				13	32	90		7,82	10	
		16	21238				17	32	90		7,62	10	
120	150	10	21240	22	14,7	23	10,5	32	98	60	8,38	10	
		12	21241				13	32	98		8,79	10	
		16	21242				17	32	98		8,64	10	
150	185	10	21245	25	16,3	25	10,5	35	104	64	9,98	10	
		12	21246				13	35	104		10,23	10	
		16	21247				17	35	104		10,08	10	
		20	21248				21	35	104		10,02	10	
185	240	10	21249	28	18,5	28,5	10,5	40	109	66	13,39	10	
		12	21250				13	40	109		13,39	10	
		16	21251				17	40	109		13,75	10	
		20	21252				21	40	109		13,75	10	

Tubular compression cable lugs 240 – 500 mm², for aluminium conductors DIN 48 201-1

dimensions in accordance to DIN 46329 und DIN 46267 part 2

material: Al 99.5, surface: uncoated, sleeves are prefilled with compound



*rm = round stranded
 sm = sector stranded

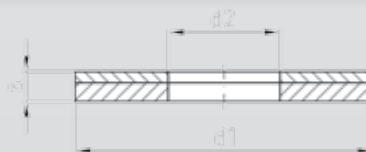
**se = sector solid
 (Sector solid shaped conductors must be rounded with dies for round-forming.)

cross section (mm ²)	flat hole M	art.-no.	die code	dimensions in mm							weight 100 pcs./kg	packing unit (pcs.)	tool recommendation		
				d1	d3	d2	b	l	a						
240	300	10	21254	32	21	32	10,5	46	119	70	18,28	10	HPi 20	MP2, API 20,	HPW 18 168
		12	21255				13	46	119		17,94	10			
		16	21256				17	46	119		17,62	10			
		20	21257				21	46	119		17,90	10			
300	–	12	21260	34	23,3	34	13	50	125	70	20,54	5		HPW 17, API 30 + HPi 30	
		16	21261				17	50	125		20,14	5			
		20	21262				21	50	125		19,43	5			
400	–	12	21264	38	26	38,5	13	55	120	70	28,30	5			
		16	21266				17	55	120		27,33	5			
		20	21268				21	55	120		24,00	5			
500	–	12	21270	44	29	44	13	63	140	80	38,00	5			
		16	21272				17	63	140		37,80	5			
		20	21273				21	63	140		37,35	5			

Bi-metallic washers

aluminium sheet, one-sided copper plated

material: Al 99.5 according to DIN EN 573-3 and Cu-DHP according to DIN EN 1652



flat hole M	art.-no.	dimensions in mm			weight 100 pcs./kg		packing unit (pcs.)	for cable lugs max. mm ²
		d1	d2	s	total	Cu		
6	21903	16	6,5	1	0,07	0,04	100	120
8	21906	18	8,5	1	0,08	0,04	100	120
10	21909	23	10,5	1	0,15	0,08	50	240
10	21912	26	11	1	0,20	0,10	50	300
12	21915	26	13	2	0,28	0,16	50	240
12	21918	30	13	2	0,40	0,24	50	400
12	21920	46	13	2	1,11	0,46	50	1000
16	21921	35	17	2	0,62	0,31	50	500
16	21923	46	17	2	0,96	0,43	50	1000
20	21924	37	21	2	0,53	0,30	25	500
20	21926	46	21	2	0,88	0,40	25	1000

Tubular compression connectors 16 – 500 mm²

DIN 46267 part 2

material: Al 99,5, surface: uncoated, sleeves are prefilled with compound



*rm = round stranded
sm = sector stranded

**se = sector solid
(Sector solid shaped conductors must be rounded with dies for round-forming.)

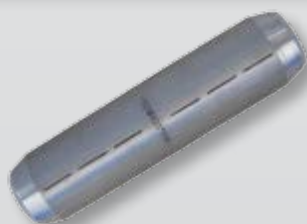
*** = not standardized

cross section (mm ²) rm/sm*		art.-no.	die code	dimensions in mm			weight 100 pcs./kg	packing unit (pcs.)	tool recommendation			
	se**			d1	d3	l						
16***	25	21462	12	5,6	12	55	1,34	50	AP 10 152, HPI 10 153	MP 2 147, API 20 156, HPI 20 157	API 30 + HPI 30 161, HPW 17 163	DW 6/70 140 HPW 18 168
25	35	21464	12	6,8	12	70	1,54	50				
35	50	21466	14	8,0	14	85	2,85	50				
50	70	21468	16	10,0	16	85	3,40	25				
70	95	21470	18	11,5	18,5	105	5,59	25				
95	120	21472	22	13,2	22	105	8,21	10				
120	150	21474	22	14,7	23	105	8,64	10				
150	185	21476	25	16,3	25	125	11,13	10				
185	240	21478	28	18,5	28,5	125	14,35	10				
240	300	21480	32	21,0	32	145	19,17	10				
300	–	21482	34	23,3	34	145	22,71	10				
400	–	21484	38	26,0	38,5	210	35,90	5				
500	–	21486	44	29,0	44,0	210	48,80	5				

Tubular compression connectors 10 - 30 kV 95 – 1000 mm²

material: Al 99,5

surface: uncoated, sleeves are prefilled with compound



cross section (mm²) rm/sm* se**		art.-no.	die code	dimensions in mm			weight 100 pcs./kg	packing unit (pcs.)	tool recommendation		
				d1	d3	l					
95	120	21672	22	13,2	22,0	100	6,30	10	HPW 17 163	API 30, HPI 30	HPW 18 168
120	150	21674	22	14,7	23,0	105	6,58	10			
150	185	21676	25	16,3	25,0	105	7,51	10			
185	240	21678	28	18,5	28,5	125	12,00	10			
240	300	21680	32	21,0	32,0	125	14,44	10			
300	–	21682	34	23,3	34,0	125	13,70	10			
400	–	21684	38	26,0	38,5	150	30,23	5			
500	–	21686	44	29,0	44,0	170	46,97	5			
625	–	21688	52	35,0	52,0	200	65,00	5			
800	–	21690	58	40,0	58,0	235	87,50	5			
1000	–	21692	60	44,0	60,0	235	82,50	5	on request		

Tubular compression cable lugs 95 - 500 mm², for aluminium conductors DIN 46329

strain-relieved and longitudinally sealed

material: Al 99,5, surface: uncoated, sleeves are prefilled witz compound



*rm = round stranded
sm = sector stranded

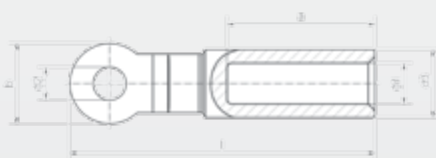
**se = sector solid
(Sector solid shaped conductors must be rounded with dies for round-forming.)

cross section mm ²		flat hole M	art.- no.	die code	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	tool recommendation		
rm/sm*	se**				d1	d3	d2	b	l	a					
95	120	8	22235	22	13,2	22	8,4	25	78	56	58,09	10	MP2, APi 20, HPI 20	HPW 17, APi 30 + HPI 30	HPW 18 168
		10	22236				10,5	25	78		57,50	10			
		12	22237				13	25	78		56,64	10			
120	150	10	22240	22	14,7	23	10,5	30	83	56	68,93	10			
		12	22241				13	30	83		67,86	10			
		16	22242				17	30	83		65,65	10			
150	185	10	22245	25	16,3	25	10,5	30	90	60	87,39	10			
		12	22246				13	30	90		86,24	10			
		16	22247				17	30	90		83,89	10			
		20	22248				21	30	90		80,91	10			
185	240	10	22249	28	18,3	28,5	10,5	30	91	60	110,02	10			
		12	22250				13	30	91		108,87	10			
		16	22251				17	30	91		104,78	10			
		20	22252				21	30	91		101,80	10			
240	300	10	22254	32	21	32	10,5	38	103	70	162,37	10			
		12	22255				13	38	103		160,79	10			
		16	22256				17	38	103		157,56	10			
		20	22257				21	38	103		153,47	10			
300	-	12	22260	34	23,3	34	13	38	103	70	177,62	5			
		16	22261				17	38	103		173,80	5			
		20	22262				21	38	103		168,96	5			
400	-	12	22264	38	26	38,5	13	38	116	73	259,80	5			
		16	22266				17	38	116		255,69	5			
		20	22268				21	38	116		250,48	5			
500	-	12	22270	44	29	44	13	44	122	79	360,40	5			
		16	22272				17	44	122		355,99	5			
		20	22273				21	44	122		350,41	5			

Bi-metallic tubular compression cable lugs 10 – 240 mm², for aluminium conductors

material: Al 99.5 and Cu according to DIN EN 13601, surface: uncoated

Al-sleeves are prefilled with compound



*rm = round stranded
sm = sector stranded

**se = sector solid
(Sector solid shaped conductors must be rounded with dies for round-forming.)

cross section mm ²		flat hole M	art.- no.	die code	dimensions in mm						weight 100 pcs./kg		packing unit (pcs.)	tool recommendation
rm/sm*	se**				d1	d3	d2	b	l	a	total	Cu		
10	–	8	21707	10	5	10	8,4	20	50	16	2,65	2,28	25	DW 10/120 141
16	25	8	21712	12	5,6	12	8,4	20	60	26	3,54	2,68	25	
		10	21713				10,5	20	60	26	3,42	2,56	25	
25	35	8	21716	12	6,8	12	8,4	20	65	31	3,57	2,68	25	
		10	21717				10,5	20	65	31	3,44	2,55	25	
		12	21718				13	26	67	31	4,45	3,56	25	
35	50	8	21721	14	8	14	8,4	20	75	41	4,55	3,17	25	
		10	21722				10,5	20	75	41	4,42	3,04	25	
		12	21723				13	26	75	41	5,15	3,76	25	
50	70	8	21725	16	9,8	16	8,4	20	75	41	4,87	3,19	25	
		10	21726				10,5	20	75	41	4,72	3,04	25	
		12	21727				13	26	75	41	5,95	4,24	25	
70	95	8	21730	18	11,2	18,5	8,4	26	85	48	6,19	3,42	10	
		10	21731				10,5	26	85	48	7,37	4,60	10	
		12	21732				13	26	85	48	7,37	4,35	10	
		16	21733				17	30	88	48	8,10	5,33	10	
95	120	8	21735	22	13,2	22	8,4	26	86	48	10,29	6,18	10	
		10	21736				10,5	26	86	48	10,59	5,90	10	
		12	21737				13	26	86	48	10,34	5,80	10	
		16	21738				17	30	88	48	10,99	6,48	10	
120	150	8	21739	22	14,7	23	8,4	26	88	49	10,68	6,79	10	
		10	21740				10,5	26	88	49	10,68	6,64	10	
		12	21741				13	26	88	49	10,45	6,41	10	
		16	21742				17	30	90	49	11,45	7,41	10	
150	185	8	21744	25	16,3	25	8,4	30	100	58,5	13,88	8,46	5	
		10	21745				10,5	30	100	58,5	13,80	8,31	5	
		12	21746				13	30	100	58,5	13,57	8,07	5	
		16	21747				17	30	100	58,5	12,88	7,18	5	
185	240	8	21748	28	18,3	28,5	8,4	30	102	58,5	18,37	10,47	5	
		10	21749				10,5	30	102	58,5	17,61	10,30	5	
		12	21750				13	30	102	58,5	17,31	10,00	5	
		16	21751				17	36	105	58,5	19,68	12,40	5	
		20	21752				21	36	105	58,5	18,97	11,69	5	
240	300	10	21753	32	21	32	10,5	30	112	69	20,41	10,00	5	
		12	21755				13	30	112	69	20,41	10,00	5	
		16	21756				17	36	115	69	22,58	12,00	5	
		20	21757				21	36	115	69	21,85	11,28	5	

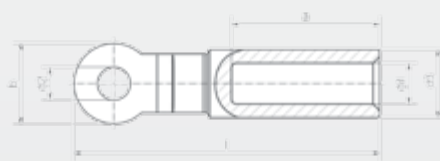
API 20 156, HPI 20 + HPW 20 157

HPW 18 168, AP 10 152, HPI 10 + HPW 10 153, API 30 + HPI 30 161, HPW 17 163

Bi-metallic tubular compression cable lugs 300 – 625 mm², for aluminium conductors

material: Al 99.5 and Cu-ETP according to DIN EN 13601, surface: uncoated

Al-sleeves are prefilled with compound



*rm = round stranded
sm = sector stranded

**se = sector solid

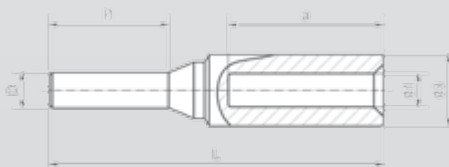
(Sector solid shaped conductors must be rounded with dies for round-forming.)

cross section mm ²		flat hole M	art.- no.	die code	dimensions in mm						weight 100 pcs./kg		packing unit (pcs.)	tool recommenda- tion
rm/sm*	se**				d1	d3	d2	b	l	a	total	Cu		
300	–	10	21758	34	23,3	34	10,5	30	115	69	21,84	10,80	5	API 30 + HPI 30 161 HPW 17 163
		12	21760				13	30	116	69	22,64	10,80	5	
		16	21761				17	36	116	69	23,20	12,80	5	
		20	21762				21	36	116	69	22,50	12,10	5	
400	–	10	21763	38	26	38,5	10,5	36	125	70	32,87	17,67	5	
		12	21764				13	36	125	70	33,27	17,39	5	
		16	21765				17	36	125	70	35,26	16,79	5	
		20	21766				21	36	125	70	34,15	16,05	5	
500	–	10	21768	44	29	44	10,5	44	140	80	43,71	21,58	1	
		12	21769				13	44	140	80	43,33	21,20	1	
		16	21770				17	44	140	80	42,83	20,70	1	
		20	21771				21	44	140	80	42,08	19,96	1	
625	–	12	21773	52	35	52	13	50	177	111	63,01	21,77	1	
		16	21775				17	50	177	111	77,00	35,40	1	
		20	21777				21	50	177	111	76,30	34,70	1	

Bi-metallic Compression bolts

material: Al 99.5 and Cu according to DIN EN 13601, surface: uncoated

Al-sleeves are prefilled with compound



*rm = round stranded
sm = sector stranded

**se = sector solid

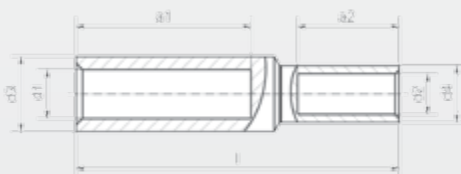
(Sector solid shaped conductors must be rounded with dies for round-forming.)

cross section (mm ²)		art.- no.	die code	dimensions in mm						weight (100 pcs./kg)		packing unit (pcs.)	tool recommendation
rm/sm*	se**			d1	d3	D	l1	L	a	total	Cu		
16	25	21940	12	5,6	12	6	20	56	26	1,54	0,68	25	API 30 + HPI 30 161, HPW 17 163
25	35	21944	12	6,8	12	6	20	61,5	31	1,60	0,68	25	
35	50	21948	14	8	14	7	22	72,5	41	2,51	1,03	25	
50	70	21952	16	9,8	16	8	25	78	41	3,45	1,60	25	
70	95	21956	18	11,2	18,5	10	30	92,5	48	5,78	2,77	10	
95	120	21960	22	13,2	22	12	33	95	48	8,64	4,36	10	
120	150	21964	22	14,7	23	12	38	105	49	9,67	5,14	10	
150	185	21968	25	16,3	25	12	38	117,5	58,5	11,52	5,61	5	
185	240	21972	28	18,3	28,5	14	44	124	58,5	16,78	8,71	5	
240	300	21976	32	21	32	16	44	136,5	69	22,30	11,43	5	
300	–	21980	34	23,3	34	18	46	138	69	27,24	14,37	5	HPW 18 168

Bi-metallic tubular compression connectors 16 – 120 mm², for aluminium conductors

material: Al 99.5 und Cu according to DIN EN 13601, surface: uncoated

Al-sleeves are prefilled with compound



*rm = round stranded
sm = sector stranded

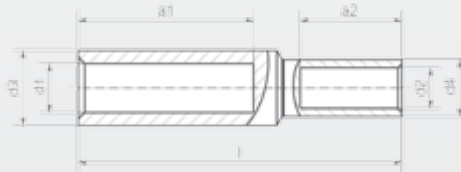
**se = sector solid
(Sector solid shaped conductors must be rounded with dies for round-forming.)

cross section (mm ²)			art.-no.	die code		dimensions in mm							weight		packing unit (pcs.)	tool recommendation
Al rm/sm*	se**	Cu rm/sm*		Al	Cu	d1	d3	d2	d4	l	a1	a2	100 pcs./kg total	Cu		
16	25	6	21802	12	5	5,6	12	3,7	5,5	45	26	10	0,92	0,21	25	DW 10/120 141
		10	21804		6			4,4	6	45	26	10	0,94	0,23	25	
		16	21806		8			5,5	8,5	56	26	20	1,58	0,84	25	
25	35	10	21808	12	6	6,8	12	4,4	6	51	31	10	0,99	0,23	25	
		16	21810		8			5,5	8,5	61	31	20	1,61	0,84	25	
		25	21812		10			7	10	62	31	20	1,92	1,13	25	
35	50	16	21814	14	8	8	14	5,5	8,5	71	41	20	2,12	0,89	25	
		25	21816		10			7	10	71	41	20	2,41	1,13	25	
		35	21818		12			8,2	12,2	70	41	20	2,99	1,71	25	
50	70	25	21820	16	10	9,8	16	7	10	71,5	41	20	2,66	1,03	25	
		35	21822		12			8,2	12,2	71,5	41	20	3,34	1,71	25	
		50	21824		14			10	14,5	77	41	25	4,35	2,65	25	
70	95	25	21826	18	10	11,2	18,5	7	10	79	48	20	3,62	1,06	10	
		35	21828		12			8,2	12,2	79	48	20	4,22	1,55	10	
		50	21830		14			10	14,5	85	48	25	5,33	2,65	10	
		70	21832		16			11,5	16,5	88	48	27	6,40	3,68	10	
95	120	35	21834	22	12	13,2	22	8,2	12,2	79	48	20	5,74	1,66	10	
		50	21836		14			10	14,5	85	48	25	6,91	2,65	10	
		70	21838		16			11,5	16,5	87	48	27	7,89	3,68	10	
		95	21840		18			13,5	19	94	48	34	9,88	5,62	10	
120	150	50	21842	22	14	14,7	23	10	14,5	87	49	25	6,65	2,73	10	
		70	21844		16			11,5	16,5	89	49	27	7,61	3,58	10	
		95	21846		18			13,5	19	97	49	34	9,77	5,62	10	
		120	21848		20			15,5	21	98	49	34	10,83	6,61	10	

Bi-metallic tubular compression connectors 150 – 500 mm², for aluminium conductors

material: Al 99.5 und Cu according to DIN EN 13601, surface: uncoated

Al-sleeves are prefilled with compound



*rm = round stranded
sm = sector stranded

**se = sector solid

(Sector solid shaped conductors must be rounded with dies for round-forming.)

cross section (mm ²)			art.-no.	die code		dimensions in mm							weight		packing unit (pcs.)	tool recommendation			
Al rm / sm*		Cu rm/sm*		Al	Cu	d1	d3	d2	d4	l	a1	a2	100 Stk./kg gesamt	Cu					
150	185	70	21850	25	16	16,3	25	11,5	16,5	101	58,5	27	9,59	3,58	5	AP 10, HPI 10	API 20 156, HPI 20 + HPW 20 157, MP 2 147	API 30 + HPI 30 161, HPW 17 163	HPW 18 168
		95	21852		18			13,5	19	108	58,5	34	11,66	5,62	5				
		120	21854		20			15,5	21	108	58,5	34	12,59	6,61	5				
		150	21856		22			17	23,5	113	58,5	39	15,50	9,47	5				
185	240	95	21858	28	18	18,3	28,5	13,5	19	108	58,5	34	13,00	5,62	5				
		120	21860		20			15,5	21	108	58,5	34	14,01	6,61	5				
		150	21862		22			17	23,5	113	58,5	39	16,93	9,47	5				
		185	21864		25			19	25,5	116	58,5	42	18,53	10,97	5				
240	300	120	21865	32	20	21	32	15,5	21	120	69	34	17,36	6,61	5				
		150	21866		22			17	23,5	124	69	39	20,08	9,27	5				
		185	21868		25			19	25,5	127	69	42	21,84	10,97	5				
		240	21870		28			21,5	29	132	69	42	28,00	17,30	5				
300	–	150	21872	34	22	23,3	34	17	23,5	124	69	39	20,51	9,27	5				
		185	21874		25			19	25,5	128	69	42	22,58	11,19	5				
		240	21876		28			21,5	29	134	69	42	29,00	17,30	5				
		300	21878		32			24,5	32	144	69	52	34,90	22,90	5				
400	–	185	21879	38	25	26	38,5	19	25,5	131	70	42	26,70	11,20	1				
		240	21880		28			21,5	29	135	70	42	32,90	17,30	1				
		300	21884		32			24,5	32	145	70	52	38,60	22,90	1				
500	–	240	21886	44	28	29	44	21,5	29	145	80	42	40,20	17,30	1				
		300	21887		32			24,5	32	155	80	52	46,41	22,90	1				
		400	21888		38			27,5	38,5	173	80	70	64,36	52,50	1				

A new processing system for flexible aluminium cables (class 5)

WEITKOWITZ has developed a new kind of crimping for the right processing of flexible aluminium cables. We call the new shape **C8-crimp**

The oxidation on the surface of every single leader is torn open by the extremely intensive pressing contour. The results are good electric values and high tension forces.



Flexible aluminium cables are used very strongly in wind power plants.

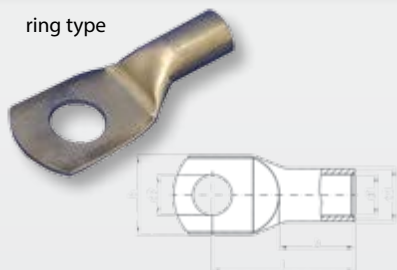
Please don't hesitate to contact us if you have any further questions!!!
WEITKOWITZ Kabelschuhe und Werkzeuge GmbH

Tubular cable lugs and connectors 0.5 – 16 mm² high grade nickel

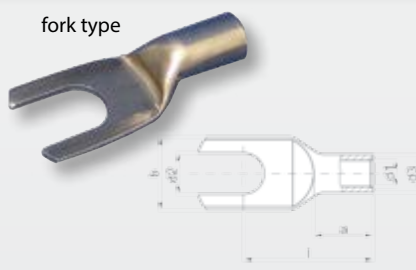
material: high grade nickel

heat resistance up to 500 °C

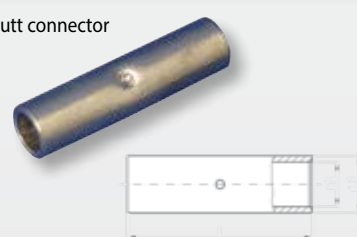
ring type



fork type



butt connector

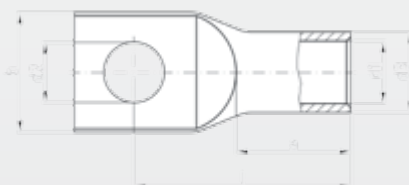


cross section mm ²	flat hole M	art.- no.	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	tool recommendation		
			d1	d3	d2	b	l	a					
ring type 0,5 – 1	3	12000	1,6	3,2	3,2	6,5	12,5	6	0,08	100	WZ 20 118	WZ 6 117	
	4	12001			4,3	7	13,5		0,08	100			
	5	12002			5,3	7,5	14,5		0,09	100			
1,5 – 2,5	3	12009	2,3	3,9	3,2	7	14	6	0,12	100			
	4	12010			4,3	7	14		0,11	100			
	5	12011			5,3	8,5	15,5		0,12	100			
	6	12012			6,4	9,5	17		0,14	100			
4 – 6	4	12015	3,6	5,6	4,3	9,4	18	8	0,26	100			
	5	12016			5,3	10	18,5		0,28	100			
	6	12017			6,4	10,5	19,5		0,29	100			
	8	12018			8,4	12,5	23,5		0,34	100			
10	5	12205	4,5	6,5	5,3	10,8	20,5	10	0,38	100			
	6	12206			6,4	11,5	22,5		0,42	100			
	8	12207			8,4	13,3	25		0,42	100			
16	5	12210	5,5	7,5	5,3	12,8	22,5	11	0,44	100			
	6	12211			6,4	13,6	24,5		0,48	100			
	8	12212			8,4	15,7	26,5		0,54	100			
fork type 0,5 – 1	4	12101	1,6	3,2	4,3	6,5	13,5	6	0,08	100	WZ 20 118		
	5	12102			5,3	7,5	14,5		0,07	100			
1,5 – 2,5	4	12110	2,3	3,9	4,3	7	14	6	0,10	100			
	5	12111			5,3	8,5	15,5		0,11	100			
	6	12112			6,4	9,5	17		0,12	100			
4 – 6	4	12115	3,6	5,6	4,3	9,4	18	8	0,23	100			
	5	12116			5,3	10	18,5		0,24	100			
	6	12117			6,4	10,5	19,5		0,24	100			
	8	12118			8,4	13	23,5		0,30	100			
10	5	12076	4,5	6,5	5,3	10,8	20,5	10	0,34	100			
	6	12077			6,4	11,5	22,5		0,37	100			
	8	12078			8,4	13,3	25		0,41	100			
16	5	12081	5,5	7,5	5,3	12,8	22,5	11	0,44	100			
	6	12082			6,4	13,6	24,5		0,48	100			
	8	12083			8,4	15,7	26,5		0,53	100			
butt connector													WZ 20 118
0,5 – 1	–	12450	1,6	3,2	–	–	15	–	0,08	100			
1,5 – 2,5		12454	2,3	3,9			15		0,10	100			
4 – 6		12458	3,6	5,6			15		0,19	100			
10		12460	4,5	6,5			25		0,38	100			
16		12462	5,5	7,5			30		0,54	100			

Tubular cable lugs out of stainless steel 1.5 – 95 mm²

material: stainless steel

heat resistance up to 400 °C, korrosion resistant



cross section mm ²	flat hole M	art.- no.	dimensions in mm						weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
d1	d2	b	l	a							
1,5 - 2,5	4	12510	3	5	4,3	9	22,5	8	0,27	10	AP 10 152, HPI 10 + HPW 10 153 API 35 + HPI 35 162, HPW 15 163, API 30 + HPI 30 161, HPW 17 163
	5	12511			5,3	9	21,5		0,26	10	
	6	12512			6,4	10	20		0,25	10	
4 - 6	4	12515	4	6	4,3	9	23,5	9	0,33	10	
	5	12516			5,3	9	22,5		0,34	10	
	6	12517			6,4	10	21		0,33	10	
10	5	12705	5	8	5,3	12	29	10	0,81	10	
	6	12706			6,4	12	27,5		0,80	10	
	8	12707			8,4	13	25		0,84	10	
16	5	12710	6	8	5,3	12	33	13	0,73	10	
	6	12711			6,4	12	31,5		0,72	10	
	8	12712			8,4	13	31		0,64	10	
25	6	12715	7	10	6,4	14	33,5	15	1,26	10	
	8	12716			8,4	16	31		1,25	10	
35	6	12720	9	12	6,4	18	39,5	17	1,86	10	
	8	12721			8,4	18	37		1,81	10	
	10	12722			10,5	20	36		1,79	10	
50	8	12725	10	14	8,4	21	43	19	3,16	10	
	10	12726			10,5	21	42		3,07	10	
	12	12727			13	23	40		2,95	10	
70	8	12730	12	16	8,4	24	53	21	4,46	10	
	10	12731			10,5	24	52		4,37	10	
	12	12732			13	24	50		4,24	10	
	16	12733			17	28	47		4,17	10	
95	8	12735	14	18	8,4	26	58	25	5,60	10	
	10	12736			10,5	26	57		5,50	10	
	12	12737			13	26	55		5,36	10	
	16	12738			17	28	52		5,19	10	

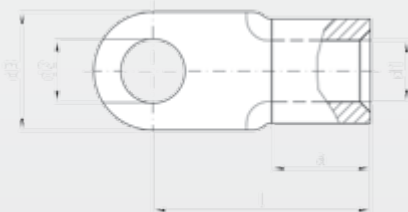


Noninsulated ring- and fork-terminals, copper
Noninsulated pin-terminals, copper
Noninsulated parallel- and butt-connectors, copper
Assortment boxes with noninsulated terminals

Noninsulated terminals with brazed seam 0.1 – 6 mm² DIN 46234

material: Cu

surface: tin plated, s = small palm



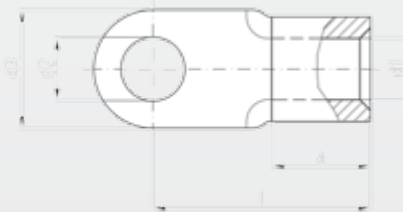
* not standardized, dimensions similar to DIN 46234

cross section mm ²	flat hole M	art.- no.	dimensions in mm					weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
			d1	d2	d3	l	a			
0,1 – 0,5	2	41001	1,0	2,2	5	10	4	0,02	100	WZ 5 117
	3	41003		3,2	5	10		0,02	100	
	4	41005		4,3	6,5	12		0,03	100	
	5	41006		5,3	8	11		0,03	100	
0,5 – 1	2*	41010	1,6	2,2	6	11	5	0,06	100	WZ 6 117, WZ 12 112, WZ 1 117
	2,5	41011		2,7	6	11		0,06	100	
	3	41012		3,2	6	11		0,06	100	
	3,5	41013		3,7	6	11		0,06	100	
	4/S*	41014		4,3	7	11		0,06	100	
	4	41015		4,3	8	12		0,07	100	
	5/S*	41016		5,3	8	12		0,06	100	
	5	41017		5,3	10	13		0,08	100	
	6*	41018		6,5	10	13		0,07	100	
	8*	41019		8,4	12	17		0,10	100	
1,5 – 2,5	10*	41009		10,5	14	17		0,10	100	MP 13 142
	3	41020	2,3	3,2	6	11	5	0,07	100	
	3,5	41021		3,7	6	11		0,06	100	
	4/S*	41022		4,3	6,8	11		0,06	100	
	4	41023		4,3	8	12		0,08	100	
	5/S*	41024		5,3	8	12		0,07	100	
	5	41025		5,3	10	14		0,10	100	
	6	41026		6,5	11	16		0,11	100	
	8	41027		8,4	14	17		0,14	100	
4 – 6	10*	41028		10,5	18	20		0,19	100	
	12*	41029		13	18	20		0,16	100	
	4	41030	3,6	4,3	8	14	6	0,14	100	
	5	41031		5,3	10	15		0,16	100	
	6	41032		6,5	11	16		0,17	100	
	8	41033		8,4	14	19		0,21	100	
	10	41034		10,5	18	21		0,27	100	
	12*	41035		13	18	21		0,23	100	

Noninsulated terminals with brazed seam 10 – 70 mm² DIN 46234

material: Cu

surface: tin plated



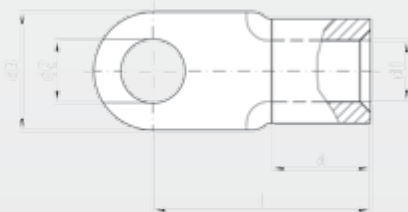
* not standardized, dimensions similar to DIN 46234

cross section mm ²	flat hole M	art.- no.	dimensions in mm					weight 100 pcs./kg	packing unit (pcs.)	tool recommendation	
d1	d2	d3	l	a							
10	4*	41039	4,5	4,3	10	16	8	0,23	100	WZ 6 117	MP 13 142
	5	41040		5,3	10	16		0,22	100		
	6	41041		6,5	11	17		0,24	100		
	8	41042		8,4	14	20		0,29	100		
	10	41043		10,5	18	21		0,35	100		
	12	41044		13	22	23		0,41	100		
16	5	41045	5,8	5,3	11	20	10	0,40	100		
	6	41046		6,5	11	20		0,38	100		
	8	41047		8,4	14	22		0,42	100		
	10	41048		10,5	18	24		0,50	100		
	12	41049		13	22	26		0,58	100		
25	5	41050	7,5	5,3	12	25	11	0,70	50		
	6	41051		6,5	12	25		0,71	50		
	8	41052		8,4	16	25		0,76	50		
	10	41053		10,5	18	26		0,78	50		
	12	41054		13	22	31		0,97	50		
	16	41096		17	28	35		1,20	50		
35	6	41055	9	6,5	15	26	12	0,97	50		
	8	41056		8,4	16	26		0,96	50		
	10	41057		10,5	18	27		1,00	50		
	12	41058		13	22	31		1,17	50		
	16	41059		17	28	36		1,41	50		
	20*	41098		21	30	37,5	14	1,67	50		
50	6	41097	11	6,5	18	34	16	1,75	50		
	8	41060		8,4	18	34		1,72	50		
	10	41061		10,5	18	34		1,66	50		
	12	41062		13	22	36		1,80	50		
	16	41063		17	28	40		2,11	50		
	20*	41099		21	32	41,2	18	2,57	50		
70	6	41064	13	6,5	22	38	18	2,66	50		
	8	41065		8,4	22	38		2,34	50		
	10	41066		10,5	22	38		2,58	50		
	12	41067		13	22	38		2,49	50		
	16	41068		17	28	42		2,77	50		
	20*	41069		21	32	45	19	3,06	50		

Noninsulated terminals with brazed seam 95 – 240 mm² DIN 46 234

material: Cu

surface: tin plated



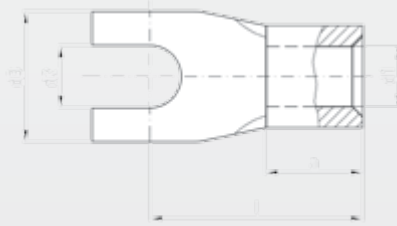
* not standardized,
dimensions similar to DIN 46234

cross section mm ²	flat hole M	art.- no.	dimensions in mm					weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
95	8	41070	15	8,4	24	42	20	4,24	25	DP 6/95 138
	10	41071		10,5	24	42		4,17	25	
	12	41072		13	24	42		3,92	25	
	16	41073		17	28	44		3,94	25	
	20*	41074		21	32	51,8		4,25	25	
120	8	41075	16,5	8,4	24	44	22	5,77	25	AP 10 152, HPI 10 153, API 20 156, HPI 20 157
	10	41076		10,5	24	44		5,67	25	
	12	41077		13	24	44		5,42	25	
	16	41078		17	28	48		6,21	25	
	20*	41079		21	32	53	21	5,81	25	
150	10	41081	19	10,5	30	50	24	8,29	25	API 30 + HPI 30 161, HPW 17 163
	12	41082		13	30	50		8,31	25	
	16	41083		17	30	50		8,01	25	
	20*	41084		21	36	63	27	7,35	25	
185	10	41086	21	10,5	36	50	28	11,16	25	
	12	41087		13	36	50		10,78	25	
	16	41088		17	36	50		10,61	25	
	20*	41089		21	36	50		10,17	25	
240	10	41091	23,5	10,5	38	56	32	15,01	25	
	12	41092		13	38	56		14,98	25	
	16	41093		17	38	56		14,53	25	

Noninsulated terminals with brazed seam 0.5 – 16 mm², fork-type

material: Cu

surface: tin plated, S = small palm

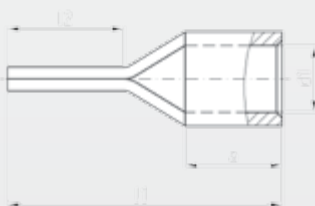


cross section mm ²	flat hole M	art.- no.	dimensions in mm					weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
0,5 – 1	C 3	41112	1,6	3,2	6	11	5	0,06	100	WZ 20 118, WZ 12 112, WZ 1 117
	C 3,5	41113		3,7	6	11		0,05	100	
	C 4/S	41114		4,3	7	12		0,06	100	
	C 4	41115		4,3	8	12		0,07	100	
	C 5	41117		5,3	10	13		0,08	100	
	C 6	41118		6,5	12	17		0,09	100	
1,5 – 2,5	C 3	41120	2,3	3,2	6	11	5	0,06	100	MP 13 142, AP 10 152, HPI 10 153
	C 3,5	41121		3,7	6,8	11		0,07	100	
	C 4/S	41122		4,3	6,8	11		0,06	100	
	C 4	41123		4,3	8	12		0,08	100	
	C 5	41125		5,3	10	14		0,10	100	
	C 6	41126		6,5	11	16		0,11	100	
4 – 6	C 4	41130	3,6	4,3	8	14	6	0,14	100	WZ 6 117
	C 5	41131		5,3	10	15		0,16	100	
	C 6	41132		6,5	11	16		0,16	100	
	C 8	41133		8,4	14	19		0,19	100	
10	C 5	41140	4,5	5,3	10	16	8	0,23	100	
	C 6	41141		6,5	11	17		0,24	100	
16	C 6	41146	5,8	6,5	11	20	10	0,48	50	
	C 8	41147		8,4	14	22		0,50	50	

Noninsulated pin-terminals with brazed seam 0.1 – 95 mm² DIN 46230

material: Cu

surface: tin plated



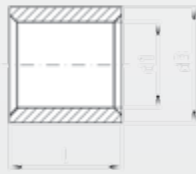
*not standardized

cross section mm ²	art.- no.	d1	dimensions in mm				weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
0,1 – 0,5	41301	1	l1	l2	a	Ø pin	0,02	100	WZ 5 WZ 20 118
0,5 – 1	41302	1,6	17	10	5	1,9	0,06	100	
1,5 – 2,5	41304	2,3	17	10	5	1,9	0,07	100	WZ 6 117
	41305*		22	15			0,09	100	
4 – 6	41306	3,6	20	11	6	2,6	0,15	100	AP 10 152, HPI 10 153, API 20 156, HPI 20 157, HPW 15 163 DP 6/95 138, MP 2 147
10	41308	4,5	22	12	8	2,3 x 4,2	0,25	100	
16	41310	5,8	26	13	10	2,5 x 5,6	0,41	100	
25	41312*	7	34,1	16	14	2,5 x 6,9	0,66	50	
35	41314*	8,4	41	20	16	3,2 x 8,1	1,19	50	
50	41316*	9,5	45,7	21	19	3,7 x 9,5	1,88	50	
70	41318*	11,2	55	24	24	4 x 11	3,01	50	
95	41320*	13,5	55,5	22	24	5,1 x 12,3	4,20	25	

Noninsulated parallel-connectors 0.1 – 150 mm² form A, DIN 46341 part 1

material: Cu

surface: tin plated



*not standardized

cross section mm²	art.- no.	dimensions in mm			weight 100 pcs./kg	packing unit (pcs.)	tool recommendation					
		l	d1	d3								
0,1 – 0,5*	41400	5	1,2	2	0,01	100	DP 6/95 138	WZ 20 118	WZ 12 112	WZ 6 117	AP 10 152	API 30 + HPI 30 161
0,5 – 1	41401	7	1,6	3,3	0,04	100						
1,5 – 2,5	41404	7	2,3	4	0,05	100						
4 – 6	41408	7	3,6	5,7	0,09	100						
10	41410	9	4,6	6,8	0,15	100						
16	41412	10	5,9	8,3	0,23	100						
25	41414	12,5	7,7	10,7	0,45	100						
35	41416	14	9,2	12,4	0,65	100						
50	41418	17,5	11,2	14,8	1,13	100						
70	41420	18	13,5	17,5	1,59	100						
95	41422	19	15	20	2,34	50						
120	41424	21	16,7	22,7	3,53	50						
150	41426	25	19	25,5	5,02	50						

Noninsulated butt-connectors 0.1 – 150 mm² form B, DIN 46341 part 1

material: Cu

surface: tin plated



*not standardized

cross section mm²	art.- no.	dimensions in mm			weight 100 pcs./kg	packing unit (pcs.)	tool recommendation					
		l	d1	d3								
0,1 – 0,5*	41450	12	1,2	2	0,02	100	DP 6/95 138	WZ 20 118	WZ 12 112	WZ 6 117	AP 10 152	API 30 + HPI 30 161
0,5 – 1	41451	15	1,6	3,3	0,09	100						
1,5 – 2,5	41454	15	2,3	4	0,11	100						
4 – 6	41458	15	3,6	5,7	0,18	100						
10	41460	20	4,6	6,8	0,36	100						
16	41462	26	5,9	8,3	0,61	100						
25	41464	29	7,7	10,7	1,13	100						
35	41466	32	9,2	12,4	1,55	100						
50	41468	38	11,2	14,8	2,44	100						
70	41470	42	13,5	17,5	3,73	50						
95	41472	48	15	20	6,08	50						
120	41474	52	16,7	22,7	8,67	50						
150	41476	56	19	25,5	11,25	50						

Assortment boxes

with noninsulated cable lugs and connectors



Assortment box out of varnished steel, with 12 small compartments and 1 tool-compartment. An inlay out of foam material prevents the content from mixing up. Measurements: 350 x 160 x 35 mm

quantity	description	flat hole mm	cross section mm ²	art.- no.
200 x	ring-terminals	3 – 1		41012
300 x	ring-terminals	4 – 1		41015
200 x	ring-terminals	5 – 1		41017
300 x	ring-terminals	4 – 2,5		41023
200 x	ring-terminals	5 – 2,5		41025
50 x	ring-terminals	5 – 6		41031
100 x	pin-terminals	1		41302
100 x	pin-terminals	2,5		41304
50 x	pin-terminals	6		41306
50 x	butt-connectors	1		41451
50 x	butt-connectors	2,5		41454
25 x	butt-connectors	6		41458
without tool				90848

special filling
on request

assortment box **without** contents
Bestell-Nr.: 90821



Assortment box out of varnished steel, with 7 small compartments and 1 tool-compartment for meter wiring. Measurements: 350 x 160 x 35 mm

quantity	description	flat hole mm ²	length mm	art.- no.
100 x	cord-end-sleeves	10 – 18		51434
50 x	cord-end-sleeves	16 – 18		51438
quantity	description	flat hole M	length mm	art.-no.
50 x	fork-terminals	5 – 10		41140
50 x	fork-terminals	6 – 10		41141
25 x	fork-terminals	6 – 16		41146
25 x	fork-terminals	8 – 16		41147
1 x	crimping tool WZ 6			90706
1 x	crimping tool AZ 6			90806
assortment box				90849

special filling
on request

assortment box **without** contents
Bestell-Nr.: 90823



Insulated ring-, fork- and pin-terminals
Insulated connectors
Male and female disconnectors,
insulated and noninsulated
Assortment boxes

Quality advantages:

Brazed seam:

The seam of WEITKOWITZ ring-, fork- and pin-terminals is hard-soldered. This guarantees a defined deformation during crimping and a really good electric and mechanical connection.

Injected insulation sleeve

WEITKOWITZ ring-, fork- and pin-terminals have an injected easy-entry insulation sleeve that chamfers on the inside funnel shaped to the edge of the cable lug.

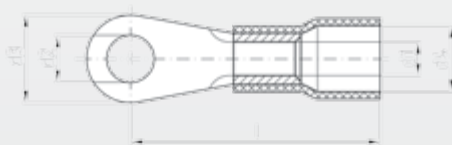
advantages for you:

- during crimping no white lines occur. Even after extreme deformation the colour of insulation does not change. Therefore the crimped cable lugs give an excellent and clean optical impression.
- due to the easy-entry insulation cables with a thicker insulation can be inserted without any problems. And what is more our products can be crimped with any common tool that is suitable for insulated terminals.
- furthermore the easy-entry insulation prevents wire turn-backs. Therefore you can work easier, faster and safer.

Insulated terminals with soldered seam and easy-entry insulation 0.1 – 6 mm² DIN 46 237

material: Cu, insulation: PC (resp. *polyamide)

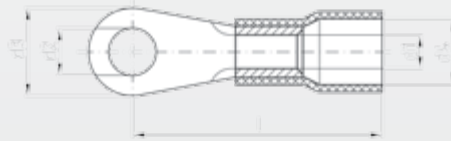
surface: tin plated. S = small palm



cross section mm ²	flat hole M	art.- no.	colour of insulation	dimensions in mm					Cu-weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
				d1	d4	d2	d3	l			
0,1 – 0,5	2	42001*	yellow	1	2,3	2,2	5	14	0,02	100	WZ 5 117
	3	42003*				3,2	5	14	0,02	100	
	4	42005*				4,3	6,5	16	0,03	100	
	5	42006*				5,3	8	16	0,03	100	
0,5 – 1	2	42010	red	1,6	4	2,2	6	17	0,06	100	WZ 9 120, WZ 24 121, WZ 23 121, WZ 12 112, WZ 1 117
	2,5	42011				2,7	6	17	0,06	100	
	3	42012				3,2	6	17	0,06	100	
	3,5	42013				3,7	6	17	0,06	100	
	4/S	42014				4,3	7	17,5	0,06	100	
	4	42015				4,3	8	18	0,07	100	
	5/S	42016				5,3	8	18,5	0,06	100	
	5	42017				5,3	10	19	0,08	100	
	6	42018				6,5	10	19	0,07	100	
	8	42019				8,4	14	23	0,10	100	
	10	42009				10,5	18	25	0,10	100	
1,5 – 2,5	3	42020	blue	2,3	4,4	3,2	6	17	0,07	100	
	3,5	42021				3,7	6	17	0,06	100	
	4/S	42022				4,3	6,8	17,6	0,06	100	
	4	42023				4,3	8	18	0,08	100	
	5/S	42024				5,3	8	19,5	0,07	100	
	5	42025				5,3	10	20	0,10	100	
	6	42026				6,5	11	22	0,11	100	
	8	42027				8,4	14	23	0,14	100	
	10	42028				10,5	18	25,6	0,19	100	
4 – 6	12	42029				13	18	26	0,16	100	
	4	42030	yellow	3,6	6,4	4,3	8	21	0,14	100	
	5	42031				5,3	10	22	0,16	100	
	6	42032				6,5	11	23	0,17	100	
	8	42033				8,4	14	26	0,21	100	
	10	42034				10,5	18	28	0,27	100	
	12	42035				13	18	28	0,23	100	

Insulated terminals with soldered seam and easy-entry insulation 10 - 50 mm²

material: Cu, insulation: polyamide
 surface: tin plated

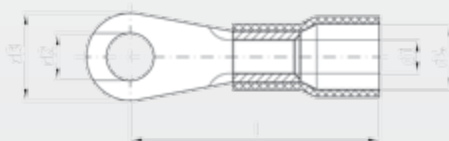


cross section mm ²	flat hole M	art.- no.	colour of insulation	dimensions in mm					Cu-weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
				d1	d4	d2	d3	l			
10	5	42040	red	4,5	8	5,3	10	24,5	0,22	50	WZ 28 121, WZ 12 112 MP 13 142 MP 1 144, MP 2 147, AP 10 152, HPI 10 153, API 20 156, HPI 20 157 API 30 + HPI 30 161, HPW 17 163, API 35 + HPI 35 162, Stilo 1 150, HPW 15 163
	6	42041				6,5	11	25,5	0,24	50	
	8	42042				8,4	14	28,5	0,29	50	
	10	42043				10,5	18	29,5	0,35	50	
16	5	42045	blue	5,8	10,5	5,3	11	31,5	0,40	50	
	6	42046				6,5	11	31,5	0,38	50	
	8	42047				8,4	14	33,5	0,42	50	
	10	42048				10,5	18	35,5	0,50	50	
25	5	42050	yellow	7,5	13	5,3	12	38	0,70	50	
	6	42051				6,5	12	38	0,71	50	
	8	42052				8,4	16	38	0,76	50	
	10	42053				10,5	18	39	0,78	50	
	12	42054				13	22	44	0,97	50	
35	6	42055	red	9	14,5	6,5	15	41	0,97	50	
	8	42056				8,4	16	41	0,96	50	
	10	42057				10,5	18	42	1,00	50	
	12	42058				13	22	46	1,17	50	
50	6	42097	blue	11	16,5	6,5	18	47,5	1,75	50	
	8	42060				8,4	18	47,5	1,72	50	
	10	42061				10,5	18	47,5	1,66	50	
	12	42062				13	22	49,5	1,80	50	

Insulated terminals with soldered seam and easy-entry insulation 70 - 150 mm²

material: Cu, insulation: polyamide

surface: tin plated

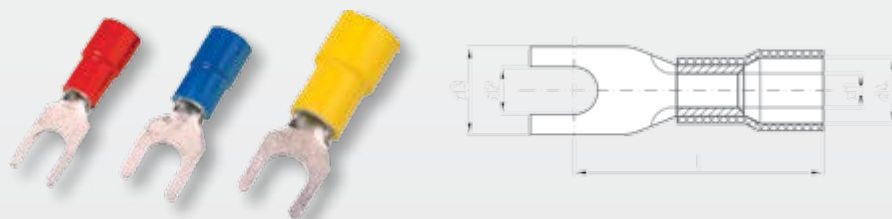


cross section mm ²	flat hole M	art.- no.	colour of insulation	dimensions in mm					Cu-weight 100 pcs./kg	packing unit (pcs.)	tool recommendation			
				d1	d4	d2	d3	l						
70	6	42064	yellow	13	18,7	6,5	22	51	2,66	50	MP 1 144	API 20 156, HPI 20 157	MP 2 147, API 35 + HPI 35 162, HPW 15 163	API 30 + HPI 30 161, HPW 17 163
	8	42065				8,4	22	51	2,34	50				
	10	42066				10,5	22	51	2,58	50				
	12	42067				13	22	51	2,49	50				
	16	42068				17	28	55	2,77	50				
95	8	42070	red	15	21,7	8,4	24	57,5	4,24	50				
	10	42071				10,5	24	57,5	4,17	50				
	12	42072				13	24	57,5	3,92	50				
	16	42073				17	28	59,5	3,94	50				
120	8	42075	blue	16,5	24,2	8,4	24	62	5,77	25				
	10	42076				10,5	24	62	5,67	25				
	12	42077				13	24	62	5,42	25				
	16	42078				17	28	66	6,21	25				
150	10	42081	yellow	19	27,2	10,5	30	70	8,29	25				
	12	42082				13	30	70	8,31	25				
	16	42083				17	30	70	8,01	25				

Insulated terminals with soldered seam and easy-entry insulation 0.5 – 16 mm², fork type

material: Cu, insulation: PC (resp. * PA)

surface: tin plated, S = small palm

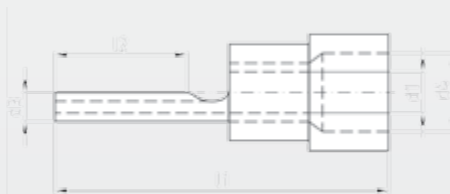


cross section mm ²	flat hole M	art.- no.	colour of insulation	dimensions in mm					Cu-weight 100 pcs./kg	packing unit (pcs.)	tool recommendation		
				d1	d4	d2	d3	l					
0,5 – 1	C 3	42112	red	1,6	4	3,2	6	17	0,06	100	WZ 9 120, WZ 1 117	WZ 23 121, WZ 24 121	WZ 12 112
	C 3,5	42113				3,7	6	17	0,05	100			
	C 4/S	42114				4,3	6,8	18	0,06	100			
	C 4	42115				4,3	8	18,1	0,07	100			
	C 5	42117				5,3	10	19	0,08	100			
	C 6	42118				6,5	11	21	0,09	100			
1,5 – 2,5	C 3	42120	blue	2,3	4,5	3,2	5,5	19	0,06	100	WZ 28 121	MP 1 144, MP 2 147	AP 10 152, Stilo 1 150
	C 3,5	42121				3,7	6	17	0,07	100			
	C 4/S	42122				4,3	6,8	18,7	0,06	100			
	C 4	42123				4,3	8	18	0,08	100			
	C 5	42125				5,3	10	20	0,10	100			
	C 6	42126				6,5	11	22	0,11	100			
4 – 6	C 4	42130	yellow	3,6	6,4	4,3	8	21	0,14	100	WZ 28 121	MP 1 144, MP 2 147	AP 10 152, Stilo 1 150
	C 5	42131				5,3	10	22	0,16	100			
	C 6	42132				6,5	11	23	0,16	100			
	C 8	42133				8,4	14	26	0,19	100			
	C 10	42134				10,5	18	28	0,33	100			
10	C 5	42140*	red	4,5	8	5,3	10,5	24,1	0,23	50	WZ 28 121	MP 1 144, MP 2 147	AP 10 152, Stilo 1 150
	C 6	42141*				6,5	10,8	24,6	0,24	50			
16	C 6	42146*	blue	5,8	11	6,5	11	32,2	0,48	50	WZ 28 121	MP 1 144, MP 2 147	AP 10 152, Stilo 1 150
	C 8	42147*				8,4	13,8	32,2	0,50	50			

Insulated pin-terminals with soldered seam 0.1 – 35 mm² DIN 46231

material: Cu, insulation: PC (resp. * PA)

surface: tin plated



*not standardized

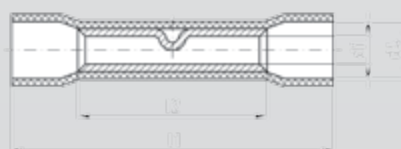
cross section mm ²	art.- no.	colour of insulation	dimensions in mm					Cu-weight 100 Stk./kg	packing unit (pcs.)	tool recommendation
d1	d4	d3	l1	l2						
0,1 – 0,5	42301* ¹	yellow	1	2,2	1,2	18	9	0,02	100	WZ 5 117
0,5 – 1	42302	red	1,7	4	1,9	22,8	11	0,06	100	WZ 9 120
1,5 – 2,5	42304	blue	2,3	4,5	1,9	22,8	11	0,07	100	WZ 12 112
	42305	blue				27	14	0,09	100	WZ 24 121
4 – 6	42306	yellow	3,6	6,4	2,8	27	11	0,15	100	WZ 23 121
10	42308* ¹	red	4,5	7,8	2,4 x 4,3	34	12	0,25	50	MP 13 142
16	42310* ¹	blue	5,8	9,1	2,5 x 5,6	40,7	13,5	0,41	50	
25	42312* ¹	yellow	7	12,4	2,5 x 6,9	44	16	0,66	50	
35	42314* ¹	red	8,4	14	3,2 x 8,1	52,5	20	1,19	50	on request

8

Insulated butt-connectors 0.1 – 6 mm² with easy-entry insulation

material: Cu, insulation: PC (resp. * PA)

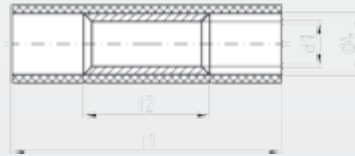
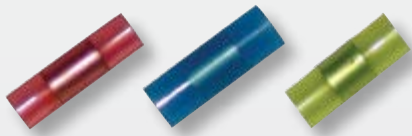
surface: tin plated



cross section mm ²	art.- no.	colour of insulation	dimensions in mm				Cu-weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
d1	d4	l2	l1						
0,1 – 0,5	42450*	yellow	1,2	2	12	20	0,02	100	WZ 5 117
0,5 – 1	42451	red	1,6	4,1	15	25	0,09	100	WZ 1 117
1,5 – 2,5	42454	blue	2,3	4,5	15	26	0,11	100	WZ 12 112
									WZ 9 120
4 – 6	42458	yellow	3,6	6,4	15	27	0,18	100	WZ 23 121
									WZ 24 121

Insulated parallel-connectors 0.1 – 6 mm²

material: Cu, insulation: PA
 surface: tin plated



cross section mm ²	art.- no.	colour of insulation	dimensions in mm				Cu-weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
d1	d4	l2	l1						
0,1 – 0,5	42400	yellow	1,2	2	5	12	0,01	100	WZ 5 17
0,5 – 1	42401	red	1,7	3,2	7	17	0,04	100	WZ 12 112
1,5 – 2,5	42404	blue	2,3	4	7	17	0,05	100	WZ 24 121
4 – 6	42408	yellow	3,6	5,4	7	21,2	0,09	100	WZ 23 121
									WZ 9 120

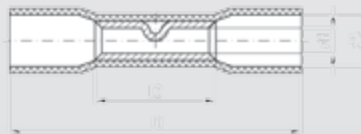
Heat shrinkable butt-splice-connectors 0.14 – 6 mm²

material: Cu, tin plated

shrink temperature approx. 120 °C

insulation: 0.14 – 0.5 mm² = Polyolefin

0.5 – 6 mm² = Polyethylen

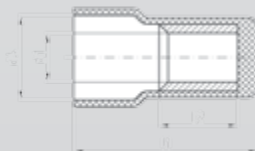


cross section mm ²	art.- no.	colour of insulation	dimensions in mm				Cu-weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
d1	d4	l2	l1						
0,14 – 0,5	42430	yellow	1,4	3,1	11,5	24,5	0,04	50	WZ 5 117, WZ 12 112
0,5 – 1	42431	red	1,7	4,4	15	36	0,09	50	only: WZ 9 120 WZ 28 121
1,5 – 2,5	42434	blue	2,3	5,2	15	36	0,11	50	
4 – 6	42436	yellow	3,6	6,5	15	41	0,18	20	

Insulated closed-end-connectors 1.5 – 10 mm²

material: Cu, insulation: PA

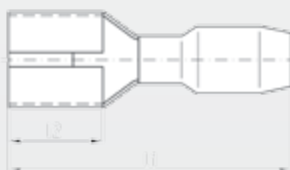
surface: tin plated



cross section mm ²	art.- no.	colour of insulation	dimensions in mm				Cu-weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
d1	d4	l2	l1						
1,5 – 2,5	42484	blue transparent	2,3	6,4	8	15,4	0,05	100	only: WZ 9 120
4 – 6	42486	yellow transparent	3,4	9,2	8,5	17,7	0,09	100	
10	42488	transparent	5	11,8	8	22	0,15	50	only: WZ 28 121

Female disconnectors 0.1 – 6 mm²

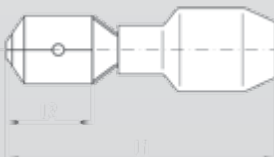
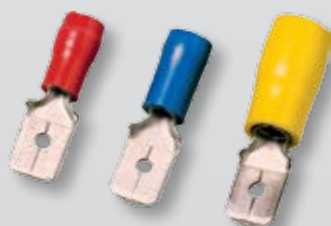
material: **brass**, insulation: **PVC** resp. **PC**
surface: tin plated



cross section mm ²	art.-no.		colour of insulation	dimensions in mm				weight 100 pcs./kg	packing unit (pcs.)	tool recommendation		
	insulation PVC	PC		tab- width	tab- thickness	l1	l2					
0,1 – 0,5	44002	–	yellow	2,8	0,5	16	6,4	0,04	100	WZ 5 17		
	44003	–		2,8	0,8	16	6,4	0,04	100			
0,5 – 1	44010	44610	red	2,8	0,5	19	6,5	0,08	100	WZ 24 121, WZ 23 121	WZ 9 120	
	44011	44611		2,8	0,8	19	6,5	0,08	100			
	44012	44612		4,8	0,5	19,4	6,4	0,09	100			
	44013	44613		4,8	0,8	19,4	6,4	0,09	100			
	44014	44614		6,3	0,8	20,8	7,5	0,10	100			
	44018	44618		2,8	0,5	19	6,5	0,08	100			
1,5 – 2,5	44019	44619	blue	2,8	0,8	19	6,5	0,08	100			
	44015	44615		4,8	0,5	19,4	6,4	0,09	100			
	44016	44616		4,8	0,8	19,4	6,4	0,09	100			
	44017	44617		6,3	0,8	20,8	7,3	0,11	100			
	44020	44620		6,3	0,8	23,3	7,3	0,18	100			
4 – 6	44021	44621	yellow	9,5	1,2	28,6	12	0,27	100			

Male disconnectors 0.5 – 6 mm²

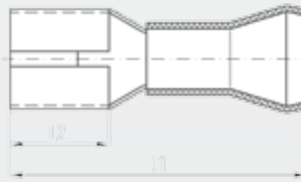
material: **brass**, insulation: **PVC** resp. **PC**
Oberfläche: galvanisch verzinkt



cross section mm ²	art.-no.		colour of insulation	dimensions in mm				weight 100 pcs./kg	packing unit (pcs.)	tool recommendation		
	insulation PVC	PC		tab- width	tab- thickness	l1	l2					
0,5	44031	44631	red	2,8	0,8	19,2	6,5	0,08	100	WZ 23 121	WZ 24 121	WZ 9 120
	44033	44633		4,8	0,8	19,8	6,7	0,08	100			
	44034	44634		6,3	0,8	21,8	7,7	0,09	100			
1,5 – 2,5	44039	44639	blue	4,8	0,8	19,8	6,7	0,09	100			
	44035	44635		6,3	0,8	21,8	7,7	0,10	100			
4 – 6	44036	44636	yellow	6,3	0,8	24	7,7	0,17	100			

Female disconnectors 0.5 – 6 mm²

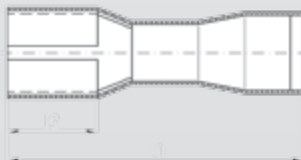
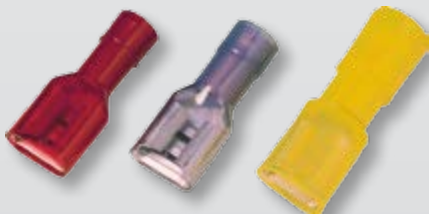
material: **phos. bronze**, insulation: PA
 surface: tin plated



cross section mm ²	art.- no.	colour of insulation	dimensions in mm				weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
			tab- width	tab- thickness	l1	l2			
0,5 – 1	44080	red	2,8	0,5	18,4	6,4	0,07	100	WZ 9 120
	44081		2,8	0,8	18,4	6,4	0,07	100	
	44083		4,8	0,8	19	6,2	0,08	100	
	44084		6,3	0,8	21	8	0,10	100	
1,5 – 2,5	44087	blue	6,3	0,8	21	8	0,11	100	
4 – 6	44090	yellow	6,3	0,8	24,7	8	0,18	100	

Female disconnectors 0.5 – 6 mm², completely insulated

material: **brass**, insulation: PA resp. PC
 surface: tin plated

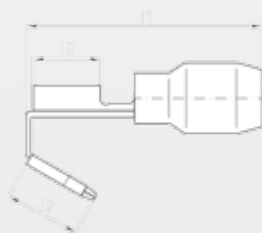
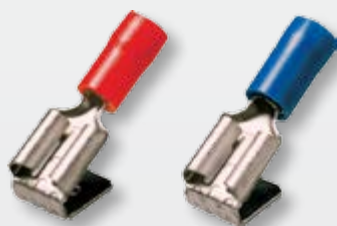


cross section mm ²	art.-no. insulation		colour of insulation	dimensions in mm				weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
	PA	PC		tab- width	tab- thickness	l1	l2			
0,5 – 1	44040	44640	red	2,8	0,5	19,2	6,4	0,08	100	WZ 23 121
	44041	44641		2,8	0,8	19,2	6,4	0,08	100	
	44042	44642		4,8	0,5	20,2	6,4	0,10	100	
	44043	44643		4,8	0,8	20,2	6,4	0,10	100	
	44044	44644		6,3	0,8	21,5	7,3	0,11	100	
1,5 – 2,5	44045	44645	blue	4,8	0,5	20,2	6,5	0,11	100	
	44046	44646		4,8	0,8	20,2	6,5	0,11	100	
	44047	44647		6,3	0,8	21,5	7,3	0,14	100	
4 – 6	44049	44649	yellow	6,3	0,8	24,2	7,3	0,20	100	

Piggy back disconnectors 0.5 – 2.5 mm²

material: brass, insulation: PVC resp. PC

surface: tin plated

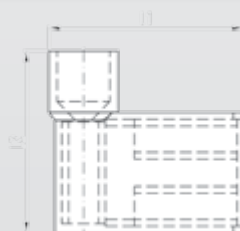


cross section mm ²	art.-no. insulation		colour of insulation	dimensions in mm					weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
	PVC	PC		tab- width	tab- thickness	l1	l2	l3			
0,5 – 1	44025	44625	red	6,3	0,8	23,9	8	8,2	0,15	100	WZ 24 + WZ 23 121 WZ 9 120
1,5 – 2,5	44026	44626	blue	6,3	0,8	23	8	8,2	0,15	100	

Flag female disconnectors 0.5 – 2.5 mm², completely insulated

material: brass, Insulation: PA

surface: tin plated

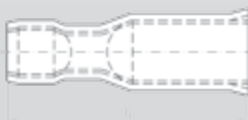


cross section mm ²	art.- no.	colour of insulation	dimensions in mm				weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
			tab- width	tab- thickness	l1	l2			
0,5 – 1	44056	red	6,3	0,8	16,3	15	0,14	100	only: WZ 26 120
1,5 – 2,5	44060	blue	6,3	0,8	16,8	15	0,13	100	

Insulated receptacle disconnectors 0.5 – 6 mm²

material: brass, insulation: PVC

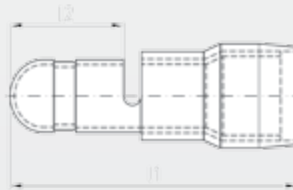
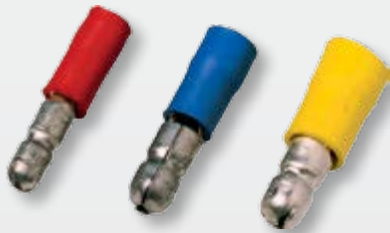
surface: tin plated



cross section mm ²	art.- no.	colour of insulation	dimensions in mm		weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
			pin Ø mm	l1 mm			
0,5 – 1	44510	red	4	23,3	0,13	100	WZ 24 121 WZ 23 121 WZ 9 120
1,5 – 2,5	44512	blue	5	23,3	0,15	100	
4 – 6	44514	yellow	5	25,1	0,23	100	

Insulated bullet disconnectors 0.5 – 6 mm²

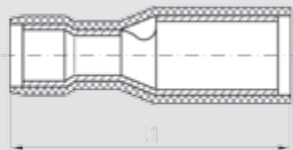
material: brass, insulation: PVC resp. PC
 surface: tin plated



cross section mm ²	art.-no. insulation		colour of insulation	dimensions in mm			weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
	PVC	PC		pin-Ø	l1	l2			
0,5 – 1	44520	44560	red	4	21,5	8,5	0,10	100	WZ 24 121 WZ 23 121 WZ 9 120
1,5 – 2,5	44523	44563	blue	5	21,2	8,5	0,11	100	
4 – 6	44526	44566	yellow	5	24	8,5	0,17	100	

Fully insulated receptacle disconnectors 0.5 – 2.5 mm²

material: brass, insulation: polyamide
 surface: tin plated

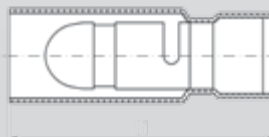


8

cross section mm ²	art.-no.	colour of insulation	dimensions in mm		weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
			Stecker-Ø	l1			
0,5 – 1	44516	red	4	25,2	0,12	100	only: WZ 9 120
1,5 – 2,5	44518	blue	4	25,2	0,13	100	

Fully insulated bullet disconnectors 0.5 – 2.5 mm²

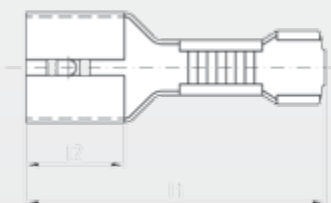
material: brass, insulation: polyamide
 surface: tin plated



cross section mm ²	art.-no.	colour of insulation	dimensions in mm		weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
			pin-Ø	l1			
0,5 – 1	44528	red	4	27	0,13	100	only: WZ 9 120
1,5 – 2,5	44530	blue	4	27	0,15	100	

Noninsulated female open barrel terminals 0.5 – 6 mm², DIN 46247

material: **brass**, tin plated resp. **steel**, nickel plated



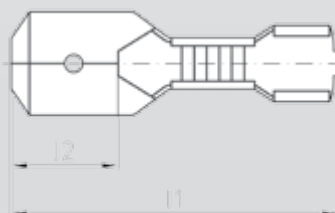
cross section mm²	art.-no.		dimensions in mm				weight 100 pcs./kg	packing unit (pcs.)	tool recommendation		
	brass tin plated	steel nickel plated	tab width	tab thickness	l1	l2					
0,5 – 1	44110	–	2,8	0,5	14,6	6,2	0,03	100	WZ 1 117	WZ 12 112	WZ 8 119
	44111	–	2,8	0,8	14,6	6,2	0,03	100			
	44112	–	4,8	0,5	15,6	6,4	0,05	100			
	44113	–	4,8	0,8	15,6	6,4	0,05	100			
	44114	44314	6,3	0,8	19,7	7,7	0,08	100			
1,5 – 2,5	44116	–	4,8	0,8	15,9	6,6	0,05	100			
	44117	44317	6,3	0,8	19,7	7,7	0,08	100			
4 – 6	44120	44320	6,3	0,8	19,8	7,7	0,09	100			

8

Noninsulated male open barrel terminals 0.5 – 2.5 mm², DIN 46248

material: brass

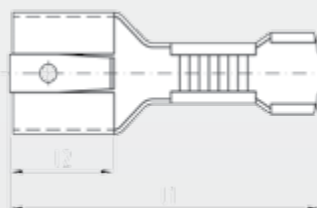
surface: tin plated



cross section mm ²	art.- no.	tab width	tab thickness	dimensions in mm		weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
				l1	l2			
0,5 – 1	44134	6,3	0,8	20,5	9,3	0,06	100	WZ 7 119 WZ 8 119 WZ 12 112
1,5 – 2,5	44135	6,3	0,8	20,7	8	0,07	100	

Noninsulated female open barrel terminals 0.5 – 6 mm², DIN 46340

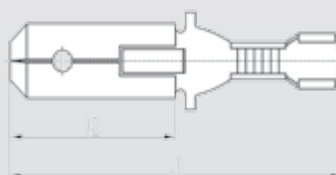
with latch to engage in housings
 material: brass, surface: tin plated



cross section mm ²	art.- no.	dimensions in mm				weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
		tab width	tab thickness	l1	l2			
0,5 – 1	44214	6,3	0,8	20	7,6	0,07	100	only: WZ 7 119 WZ 8 119 WZ 12 112
1,5 – 2,5	44217	6,3	0,8	20	7,6	0,08	100	
4 – 6	44220	6,3	0,8	19,8	7,7	0,09	100	

Noninsulated male open barrel terminals 0.5 – 6 mm², DIN 46343

with latch to engage in housings
 material: brass, surface: tin plated


8

cross section mm ²	art.- no.	dimensions in mm				weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
		tab width	tab thickness	l1	l2			
0,5 – 1	44234	6,3	0,8	28	15	0,08	100	only: WZ 7 Seite 119 WZ 8 Seite 119 WZ 12 Seite 112
1,5 – 2,5	44235	6,3	0,8	28	15	0,09	100	
4 – 6	44236	6,3	0,8	28,7	15,4	0,10	100	

Insulated housings

for noninsulated female open barrel terminals without latch
 colour: nature



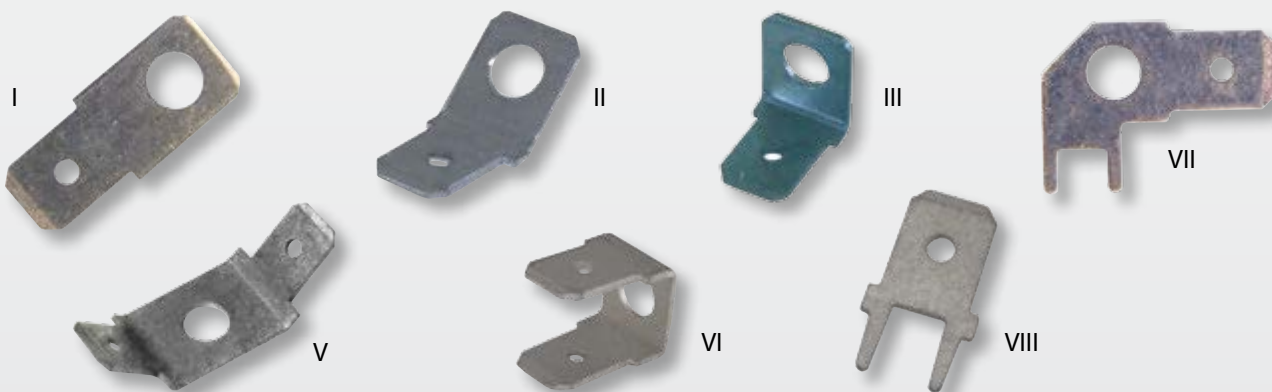
* frontal insertion for afterwards
 slide on of the crimped terminal
 housing does snap in

art.-no.	for tab width mm	for cross section mm ²	material	weight 100 pcs./kg	Verpackungs- einheit (Stk.)
44142*	2,8	0,5 – 1	Polyamid 6.6	0,02	100
44143*	4,8	0,5 – 2,5	Polyamid 6.6	0,03	100
44145	6,3	0,5 – 2,5	Polyethylen	0,04	100
44147*	6,3	0,5 – 6	Polyamid 6.6	0,05	100

Noninsulated male terminals

material: brass

surface: tin plated



art.-no.	type	dimensions in mm			weight 100 pcs./kg	Verpackungs- einheit (Stk.)
		tab width	tab thickness	hole Ø		
44151	I	6,3	0,8	4,2	0,09	100
44152	II	6,3	0,8	4,2	0,09	100
44157	II	6,3	0,8	5,2	0,08	100
44153	III	6,3	0,8	4,2	0,09	100
44155	V	6,3	0,8	4,3	0,14	100
44158	V	6,3	0,8	6,2	0,15	100
44156	VI	6,3	0,8	4,3	0,14	100
44159	VII	2,8	0,8	–	0,04	100
44160	VII	6,3	0,8	–	0,09	100
44161	VIII	6,3	0,8	–	0,05	100

Noninsulated multi-way-adapters for tab dimensions 6.3 x 0.8 mm

material: brass

surface: tin plated



art.-no.	type	cross section mm ²	weight 100 pcs./kg	packing unit (pcs.)	tool recommendation
44162	I	0,5 – 1	0,11	100	WZ 8 119
44163	I	1,5 – 2,5	0,12	100	
44166	II	–	0,12	100	
44167	III	–	0,19	100	

Fully insulated male tabs

1 pole and 12 poles

material of tabs: brass, colour of insulation: transparent

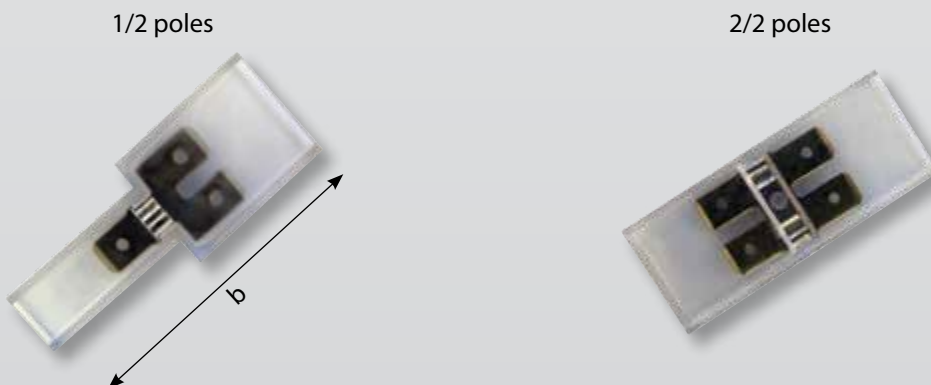


art.-no.	quantity of poles	dimensions in mm			insulation	surface of tab	weight 100 pcs./kg	packing unit (pcs.)
		tab width	tab thickness	width b				
44064	1	6,3	0,8	27,8	soft-PVC	tin plated	0,25	100
44065	12	6,3	0,8	25,8	soft-PP	tin plated	2,80	10
44067	12	6,3	0,8	42	soft-PVC	uncoated	3,68	10
44068	1	6,3	0,8	50	hard-Polyamid	tin plated	0,27	100
44069	12	6,3	0,8	50	soft-PVC	uncoated	4,48	10

Fully insulated male tabs

1/2-poles or 2/2-poles

material of tabs: brass, colour of insulation: transparent



art.-no.	quantity of poles	dimensions in mm			insulation	surface of tab	weight 100 pcs./kg	packing unit (pcs.)
		tab width	tab thickness	width b				
44071	1/2	6,3	0,8	42	soft-PVC	uncoated	0,58	20
44073	1/2	6,3	0,8	54	soft-PVC	tin plated	0,69	20
44075	2/2	6,3	0,8	50	soft-PVC	tin plated	0,64	20

Assortment boxes

with insulated terminals,
connectors and disconnectors

special filling on
request



art.-no.: 90845

like above, but **without** crimping tool

art.-no.: 90825

Assortment box **without** contents

quantity			art.-no.
50 x	ring-terminals	4 – 1	42015
50 x	ring-terminals	5 – 1	42017
50 x	ring-terminals	4 – 2,5	42023
50 x	ring-terminals	5 – 2,5	42025
50 x	ring-terminals	6 – 2,5	42026
25 x	ring-terminals	5 – 6	42031
25 x	ring-terminals	6 – 6	42032
50 x	fork-terminals	4 – 1	42114
50 x	fork-terminals	4 – 2,5	42122
25 x	fork-terminals	6 – 6	42132
50 x	pin-terminals	1	42302
50 x	pin-terminals	2,5	42304
25 x	pin-terminals	6	42306
50 x	female disconnectors	6,3 x 1	44014
25 x	piggy-back disconnectors	6,3 x 1	44025
50 x	Flachsteckhülsen	6,3 x 2,5	44017
50 x	butt-connectors	1	42451
50 x	butt-connectors	2,5	42454
25 x	butt-connectors	6	42458
1 x	crimping tool WZ 9		90709
Assortment box			90844

8

Assortment boxes

out of vanished steel, with 12 small compartments, measurements: 350 x 160 x 35 mm
1 tool compartment and an inlay out of foam material



quantity			art.-no.
100 x	ring-terminals	4 – 1	42015
100 x	ring-terminals	5 – 1	42017
100 x	ring-terminals	4 – 2,5	42023
100 x	ring-terminals	5 – 2,5	42025
50 x	ring-terminals	6 – 2,5	42026
50 x	ring-terminals	6 – 6	42032
50 x	pin-terminals	1	42302
50 x	pin-terminals	2,5	42304
50 x	butt-connectors	1	42451
50 x	butt-connectors	2,5	42454
50 x	female disconnectors	6,3 x 1	44014
50 x	female disconnectors	6,3 x 2,5	44017
1 x	crimping tool WZ 9		90709
Assortment box			90852

art.-no.: 90853 like above, but **without** crimping tool

art.-no.: 90821 Assortment box **without** contents

quantity			art.-no.
100 x	female disconnectors	2,8 x 1	44011
100 x	female disconnectors	6,3 x 1	44014
100 x	female disconnectors	6,3 x 2,5	44017
50 x	female disconnectors	6,3 x 6	44020
50 x	piggy-back disconnectors	6,3 x 1	44025
50 x	piggy-back disconnectors	6,3 x 2,5	44026
50 x	male disconnectors	6,3 x 1	44034
50 x	male disconnectors	6,3 x 2,5	44035
20 x	male tabs		44064
50 x	ring-terminals	4 – 1	42015
50 x	ring-terminals	5 – 2,5	42025
50 x	ring-terminals	6 – 6	42032
1 x	crimping tool WZ 9		90709
Assortment box			90855

art.-no.: 90856 like above, but **without** crimping tool

art.-no.: 90821 Assortment box **without** contents

Assortment boxes

out of vanished steel, measurements: 350 x 160 x 35 mm,
with 7 small compartments and 1 tool compartment

**special filling
on request**



art.-no.: 90823 Assortment box **without** contents

with insulated terminals, connectors and disconnectors

quantity			art.-no.
50 x	ring-terminals	4 – 1	42015
50 x	ring-terminals	5 – 2,5	42025
25 x	ring-terminals	6 – 6	42032
50 x	fork-terminals	4 – 1	42114
50 x	fork-terminals	5 – 2,5	42125
50 x	pin-terminals	1	42302
50 x	pin-terminals	2,5	42304
1 x	crimping tool WZ 9		90709
Assortment box			90857



art.-no.: 90823 Assortment box **without** contents

with special products for **meter wiring**

quantity			Bestell-Nr.
50 x	cord-end-sleeves	10 – 18	51368
25 x	cord-end-sleeves	16 – 18	51376
50 x	fork-terminals	5 – 10	42140
50 x	fork-terminals	6 – 10	42141
25 x	fork-terminals	6 – 16	42146
25 x	fork-terminals	8 – 16	42147
1 x	crimping tool WZ 28		90728
1 x	crimping tool AZ 6		90806
Assortment box			90851



art.-no.: 90823 Assortment box **without** contents

with noninsulated male and female disconnectors

quantity			Bestell-Nr.
100 x	female disconnectors	2,8 x 1	44111
100 x	female disconnectors	4,8 x 1	44113
100 x	female disconnectors	6,3 x 1	44114
100 x	female disconnectors	6,3 x 2,5	44117
50 x	female disconnectors	6,3 x 6	44120
50 x	piggy-back disconnectors	6,3 x 1	44162
50 x	piggy-back disconnectors	6,3 x 2,5	44163
1 x	crimping tool	WZ 7	90707
Assortment box			90846

Our service for trading

Small but representative configured packaging units simplify storage and distribution.

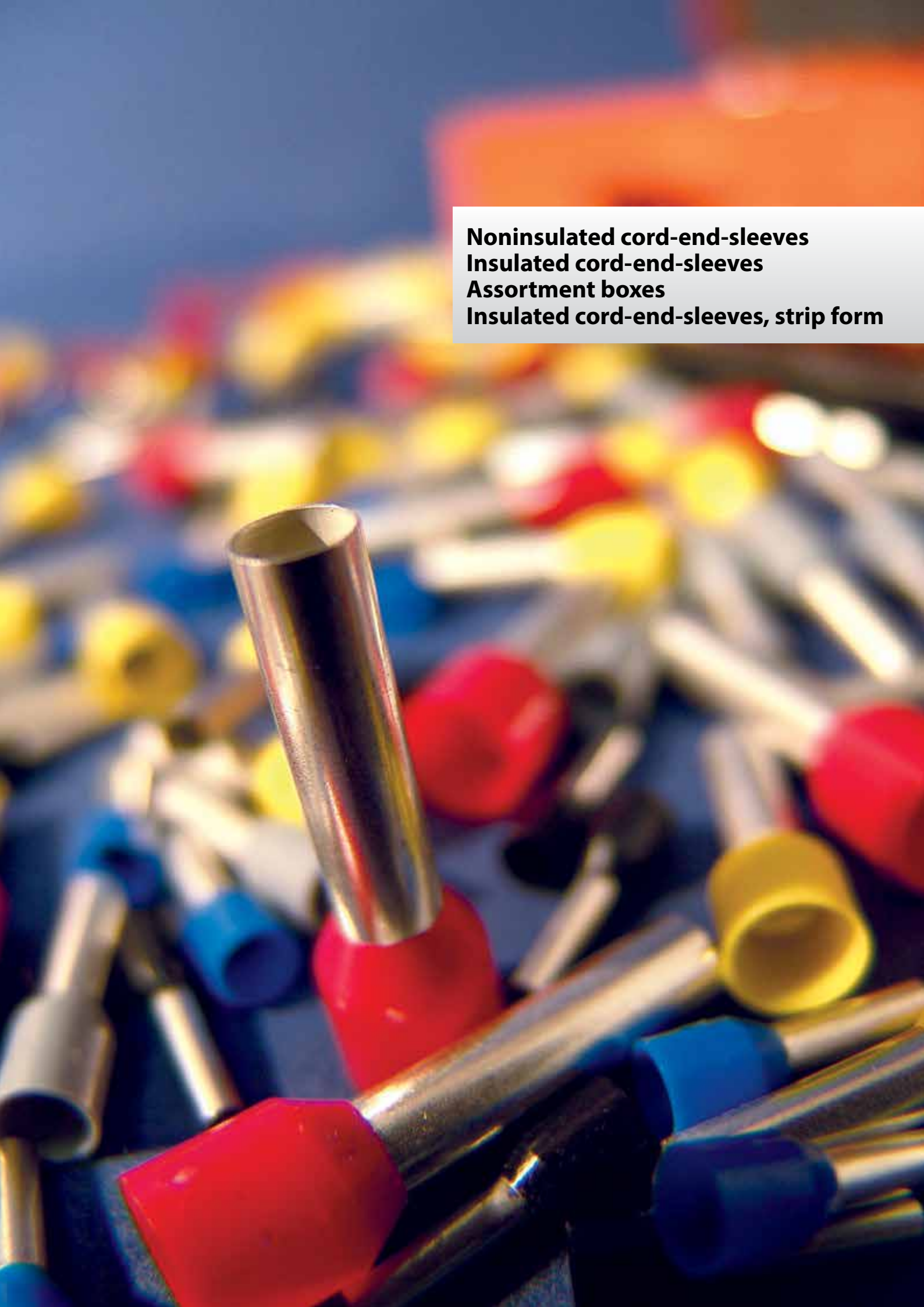
On all our labels you find our article number encoded as bar code (EAN 13). Therefore receipt and dispatch of goods are quick and faultless.



A price list on CD simplifies your data maintenance.

We place high quality, illuminated display boards with or without screen at our wholesale associate partner's disposal, free of cost.



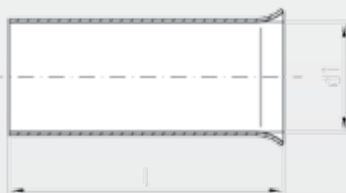


Noninsulated cord-end-sleeves
Insulated cord-end-sleeves
Assortment boxes
Insulated cord-end-sleeves, strip form

Noninsulated cord-end-sleeves 0.25 – 6 mm² DIN 46 228 part 1

material: Cu according to DIN EN 13600 resp. Cu according to DIN EN 12449

surface: tin plated



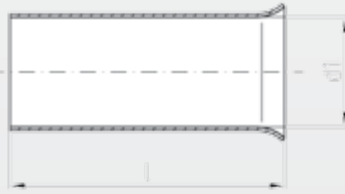
* not standardized

cross section mm²	length (l) mm	art.- no.	d1 mm	weight 1.000 pcs./kg	packing unit (pcs.)	tool recommendation				
0,25 – 0,34	5*	51402	0,8	0,03	1000	AZ 4 124	AZ 6 124	AZ 10 122	AZ 8 122, AZ 14 122, WZ 12 112	
	7*	51404		0,03	1000					
0,5	6	51410	1,1	0,04	1000					
	8*	51442		0,05	1000					
	10	51411		0,06	1000					
0,75	6	51412	1,3	0,04	1000					
	8*	51443		0,06	1000					
	10	51413		0,07	1000					
	12*	51444		0,08	1000					
	15*	51445		0,10	1000					
1	6	51414	1,5	0,05	1000					
	7*	51416		0,05	1000					
	8*	51446		0,06	1000					
	10	51415		0,08	1000					
	12*	51447		0,09	1000					
	15*	51448		0,11	1000					
1,5	7	51418	1,9	0,06	1000					
	8*	51450		0,08	1000					
	10	51419		0,09	1000					
	12	51420		0,11	1000					
	15*	51449		0,14	500					
	18	51421		0,17	500					
2,5	7	51422	2,3	0,08	1000					
	8*	51456		0,09	1000					
	10	51451		0,11	1000					
	12	51423		0,13	1000					
	15*	51452		0,18	500					
	18	51424		0,21	500					
4	9	51425	2,9	0,16	1000					
	12	51426		0,21	1000					
	15	51427		0,29	500					
	18	51453		0,34	500					
	20*	51454		0,38	500					
6	10	51428	3,7	0,23	500	AP 10 + HPi 10				AZ 16 123
	12	51429		0,28	500					
	15	51430		0,36	500					
	18	51431		0,41	500					
	20*	51457		0,46	500					

Noninsulated cord-end-sleeves 10 – 240 mm² DIN 46 228 part 1

material: Cu according to DIN EN 13600 resp. Cu according to DIN EN 12449

surface: tin plated



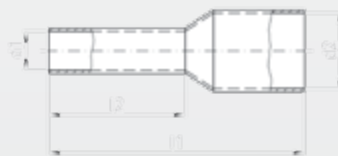
* not standardized

cross section mm ²	length (l) mm	art.- no.	d1 mm	weight 1.000 pcs./kg	packing unit (pcs.)	tool recommendation			
10	10*	51458	4,6	0,30	500	AZ 8 122, AZ 16 123, AZ 6 124	WZ 12 112, MP 1 144	MP 2 147, AP 10 152, HPI 10 + HPW 10 153	API 30 + HPI 30 161, HPW 15 163, HPW 17 163, API 35 + HPI 35 162
	12	51432		0,35	500				
	15	51433		0,44	500				
	18	51434		0,58	100				
	20*	51459		0,59	100				
16	12	51436	6,0	0,57	100				
	15	51437		0,62	100				
	18	51438		0,74	100				
	25	51439		1,00	100				
	32	51440		1,24	100				
25	12*	51406	7,5	0,60	100				
	15	51463		0,77	100				
	18	51464		0,93	100				
	22*	51407		1,14	100				
	25	51465		1,25	100				
	32	51462		1,55	100				
35	18	51466	8,5	1,04	100				
	22*	51408		1,23	100				
	25	51467		1,38	100				
	32	51460		1,84	100				
50	18	51468	10,5	1,75	100				
	22*	51409		2,09	100				
	25	51469		2,42	100				
	32	51461		3,02	100				
70	25*	51470	12,7	3,68	100				
	32*	51471		4,85	100				
95	25*	51472	14,7	4,23	100				
	32*	51473		5,30	100				
120	32*	51474	16,7	7,87	100				
	40*	51475		11,13	100				
150	32*	51476	18,7	8,89	100				
	40*	51477		10,70	100				
185	40*	51455	20,2	14,37	100				
240	34*	51502	23,1	13,04	50				
	40*	51504		15,34	50				

Insulated cord-end-sleeves 0.14 – 2.5 mm² * = DIN 46 228 part 4

material: Cu-DHP according to DIN EN 12449, insulation: polypropylene

surface: tin plated



Small packagings with 100 pcs./bag are available at additional costs!

		DIN 46228 part 4						dimensions in mm			Cu-weight		packing unit (pcs.)	tool recommendation
cross section mm ²	length mm (l2)	colour of insulation	art.-no.	colour of insulation	art.-no.	colour of insulation	art.-no.	l1	d1	d2	1.000 pcs./kg			
0,14	6	–	–	grey	51600	brown	51300	10	0,7	1,6	0,03		500	AZ 4 124, AZ 10 122, AZ 8 122, AZ 14 122, AZ 5 123
	8	–	–		51601		51301	12			0,04		500	
0,25	6	–	–	violet	51602	light blue	51302	10	0,75	1,8	0,03		500	
	8	–	–		51603		51303	12			0,04		500	
0,34	6	–	–	pink	51605	torquoise	51305	10	0,8	2	0,03		500	
	8	–	–		51606		51306	12			0,04		500	
0,5	6	white	51311	orange	51611	white	51311	12	1	2,6	0,04		500	
	8		51479		51612		51479	14			0,05		500	
	10		51478		51613		51478	16			0,06		500	
0,75	6	grey	51317	white	51616	light blue	–	12	1,2	2,8	0,04		500	
	8		51318		51617		51480	14			0,06		500	
	10		51320		51618		–	16			0,07		500	
	12		51322		51619		51481	18			0,08		500	
1	6	red	51325	yellow	51622	red	51325	12	1,4	3	0,05		500	
	8		51482		51623		51482	14			0,06		500	
	10		51328		51624		51328	16			0,08		500	
	12		51483		51625		51483	18			0,09		500	
1,5	6	black	51334	red	51629	black	51334	12	1,7	3,5	0,06		500	
	8		51484		51630		51484	14			0,08		500	
	10		51335		51631		51335	16			0,09		500	
	12		51336		51632		51336	18			0,11		500	
	18		51485		51635		51485	24			0,17		500	
2,5	8	blue	51342	blue	51342	grey	51486	14	2,2	4,2	0,09		500	
	12		51344		51344		–	18			0,13		500	
	18		51346		51346		51487	24			0,21		500	

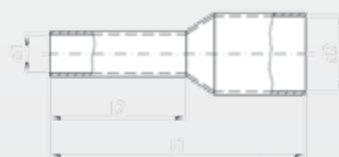
AZ 6 124

AZ 4 124, AZ 10 122, AZ 8 122, AZ 14 122, AZ 5 123

Insulated cord-end-sleeves 4 – 150 mm² * = DIN 46 228 part 4

material: Cu according to DIN EN 12449, insulation: polypropylene

surface: tin plated



* Small packagings with 100 pcs./bag are available at additional costs!

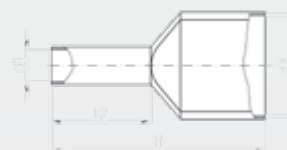
DIN 46228 part 4

cross section mm ²	length mm (l2)	colour of insulation	art.- no.	colour of insulation	art.- no.	colour of insulation	art.- no.	dimensions in mm			Cu-weight 1.000 pcs./kg	packing unit (pcs.)	tool recommendation		
4	10	grey	51348*	grey	51348	orange	51488	17	2,8	4,8	0,21	500*	AZ 8 122, AZ 6 124	AZ 10 122	AZ 14 122
	12		51350*		51350	–	–	20			0,22	500*			
	18		51352		51352		51489	26			0,34	100			
6	12	yellow	51356	black	51654	green	51490	20	3,5	6,3	0,28	100	AZ 16 123	AP 10 152, HPI 10 + HPW 10 153	API 30 + HPI 30 161, HPW 15 + HPW 17 163, API 35 + HPI 35 162
	18		51360		51656		51491	26			0,41	100			
10	12	red	51364	ivory	51660	brown	51492	22	4,5	7,6	0,35	100			
	18		51368		51662		51493	28			0,58	100			
16	12	blue	51372	green	51668	ivory	51494	24	5,8	8,8	0,57	100			
	18		51376		51670		51495	28			0,74	100			
25	16	yellow	51379	brown	51679	black	51496	30	7,3	11,2	0,80	50			
	18		51380		51680		51497	32			0,93	50			
	22		51381		51681		51498	36			1,14	50			
35	16	red	51382	beige	51682			30	8,3	12,7	0,80	50			
	18		51383		–			32			1,04	50			
	25		51384		51684			39			1,38	50			
50	20	blue	51387	oliv	51687			36	10,3	15	2,20	50			
	25		51388		–			40			2,42	50			
70	21			yellow	51689			37	13,5	16	2,94	25			
95	25			red	51691			44	14,5	18	4,23	25			
120	27			blue	51693			48	16,5	20	6,90	25			
150	32			yellow	51695			58	19,5	23	8,89	25			

Insulated twin cord-end-sleeves 2 x 0.5 – 2 x 16 mm²

with rectangular insulation for two conductors

material: Cu according to DIN EN 12449, surface: tin plated, insulation: polypropylen



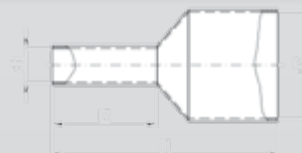
Small packagings with 100 pcs./bag are available at additional costs!

cross section mm ²	length mm (l2)	art.- no.	colour of insulation	dimensions in mm			Cu-weight 1.000 pcs./kg	packing unit (pcs.)	tool recommendation
				l1	d1	d2			
2 x 0,25	8	51220	light blue	15	1,15	1,8/3,4	0,08	500	tool recommendation on page 208
2 x 0,34	8	51222	torquoise	15	1,15	1,8/3,4	0,08	500	
2 x 0,5	8	51390	white	15	1,5	2,5/4,7	0,08	500	
2 x 0,75	8	51392	grey	15	1,8	2,8/5	0,08	500	
	10	51393		17				500	
2 x 1	8	51394	red	15	2	3,4/5,4	0,09	500	
	10	51395		17			0,12	500	
	18	51224		25			0,24	500	
2 x 1,5	8	51396	black	16	2,3	3,6/6,6	0,17	500	
	12	51397		20			0,23	500	
	18	51226		26			0,28	500	
2 x 2,5	10	51398	blue	18,5	2,9	4,2/7,8	0,22	250	
	13	51216		21,5			0,28	250	
2 x 4	12	51399	grey	23	3,8	4,9/8,8	0,38	100	
2 x 6	14	51400	yellow	26	4,9	6,9/10	0,52	100	
2 x 10	14	51401	red	26	6,5	7,2/13	0,70	100	
2 x 16	14	51228	blue	30	8,3	9,6/18,4	1,04	50	

Insulated cord-end-sleeves with large plastic collar 1.5 – 16 mm²

suitable for all short circuit resistant conductors according to VDE 0250 part 602. NSGAFÖU 1,8 kV/3 kV/6kV

material: Cu according to DIN EN 12449, surface: tin plated, insulation: polypropylen



cross section mm ²	length mm (l2)	art.- no.	colour of insulation	dimensions in mm			Cu-weight 1.000 pcs./kg	packing unit (pcs.)	tool recommendation
				l1	d1	d2			
1,5	8	51510	black	17,5	1,8	7,5	0,08	100	AZ 4 124 AZ 14 122 AZ 10 122 AZ 8 122, WZ 12 112 AZ 16 123
	10	51511		19,5			0,10	100	
2,5	8	51512	blue	17,5	2,3	8	0,09	100	
	12	51513		21,5			0,14	100	
4	10	51514	grey	19,5	2,9	9,5	0,18	100	
6	12	51516	yellow	23	3,6	10	0,28	100	
10	12	51518	red	24	4,6	11,5	0,39	100	
16	12	51520	blue	25,5	6	13,5	0,50	100	

Insulated cord-end-sleeves, for Tri-Rated Cables (Great Britain) 0,5 – 1,5 mm² und 16 mm² suitable for cables with strengthened insulation
material: Cu acc. to DIN EN 12449, surface: tin plated, insulation: polypropylene



cross section mm²	length mm (l2)	art.- no.	colour of insulation	dimensions in mm			Cu-weight 1.000 pcs./kg	packing unit (pcs.)	tool recommendation
				l1	d1	d2			
0,5	8	51540	white	13,5	1,1	3	0,06	500	AZ 10 + AZ 14 122
0,75	8	51542	grey	14	1,3	3,4	0,06	500	
1	8	51544	red	14	1,5	3,4	0,07	500	
1,5	8	51546	black	14	1,8	3,8	0,09	500	
16	12	51548	blue	23	6	9,5	0,60	100	AZ 16 123

Dispenser boxes with insulated cord-end-sleeves



Assortment 1

quantity	cross section	art.-no.
50 x	0,50 mm ²	51479
100 x	0,75 mm ²	51480
100 x	1,00 mm ²	51482
100 x	1,50 mm ²	51484
50 x	2,50 mm ²	51486
art.-no.		90881

Assortment 2

quantity	cross section	art.-no.
50 x	4 mm ²	51488
20 x	6 mm ²	51490
20 x	10 mm ²	51492
10 x	16 mm ²	51494
art.-no.		90882

Assortment 7 (with twin cord-end-sleeves)

quantity	cross section	art.-no.
65 x	2 x 0,5 mm ²	51390
70 x	2 x 0,75 mm ²	51392
75 x	2 x 1 mm ²	51394
70 x	2 x 1,5 mm ²	51396
45 x	2 x 2,5 mm ²	51398
art.-no.		90887

Assortment 3 (DIN-colours)

quantity	cross section	art.-no.
50 x	0,50 mm ²	51479
100 x	0,75 mm ²	51318
100 x	1,00 mm ²	51482
100 x	1,50 mm ²	51484
50 x	2,50 mm ²	51342
art.-no.		90883

Assortment 4 (DIN-colours)

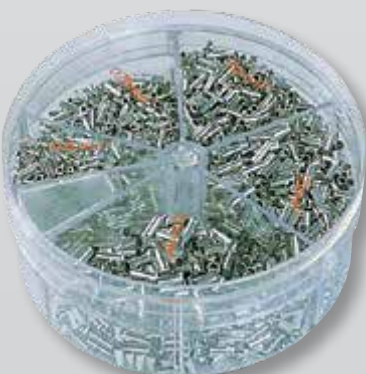
quantity	cross section	art.-no.
50 x	4 mm ²	51348
20 x	6 mm ²	51356
20 x	10 mm ²	51364
10 x	16 mm ²	51372
art.-no.		90884

dispenser boxes without contents with 4 compartments

art.-no. 90879

dispenser boxes without contents with 5 compartments

art.-no. 90880



Dispenser boxes with noninsulated cord-end-sleeves

Assortment 5

quantity	cross section	art.-no.
500 x	0,50 mm ²	51410
500 x	0,75 mm ²	51412
500 x	1,00 mm ²	51414
300 x	1,50 mm ²	51418
200 x	2,50 mm ²	51422
art.-no.		90885

Assortment 6

quantity	cross section	art.-no.
100 x	4 mm ²	51425
100 x	6 mm ²	51428
50 x	10 mm ²	51434
25 x	16 mm ²	51438
art.-no.		90886

Assortment boxes

with insulated cord-end-sleeves DIN 46228 part 4

**special filling
on request**

Assortment box out of vanished steel, with 6 small compartments, 1 tool compartment and an inlay out of foam material. Measurements: 245 x 160 x 45 mm



quantity		art.-no.
1.000 x	0,75 mm ²	51412
1.000 x	1 mm ²	51414
1.000 x	1,5 mm ²	51418
500 x	2,5 mm ²	51422
500 x	4 mm ²	51425
500 x	6 mm ²	51428
1 x	crimping tool AZ 6	90806
Assortment box		90863

art.-no.: 90866 like above, but **without** crimping tool
art.-no.: 90824 assortment box **without** content

Assortment box out of vanished steel, with 7 small compartments, 1 tool compartment and an inlay out of foam material. Measurements: 350 x 160 x 35 mm



quantity		art.-no.
1.000 x	0,75 mm ²	51412
1.000 x	1 mm ²	51414
1.000 x	1,5 mm ²	51418
500 x	2,5 mm ²	51422
500 x	4 mm ²	51425
500 x	6 mm ²	51428
200 x	10 mm ²	51434
1 x	crimping tool AZ 6	90806
Assortment box		90875

art.-no.: 90878 like above, but **without** crimping tool
art.-no.: 90823 assortment box **without** content

Assortment box out of vanished steel, with 12 small compartments, 1 tool compartment and an inlay out of foam material. Measurements: 350 x 160 x 35 mm



quantity		art.-no.
1.000 x	0,75 mm ²	51412
1.000 x	1 mm ²	51414
500 x	1 mm ²	51415
1.000 x	1,5 mm ²	51418
500 x	1,5 mm ²	51420
800 x	2,5 mm ²	51422
400 x	4 mm ²	51425
200 x	6 mm ²	51428
100 x	10 mm ²	51432
100 x	10 mm ²	51434
100 x	16 mm ²	51436
100 x	16 mm ²	51438
1 x	crimping tool AZ 6	90806
Assortment box		90864

art.-no.: 90865 like above, but **without** crimping tool
art.-no.: 90821 assortment box **without** content

Assortment boxes

with insulated cord-end-sleeves DIN 46228 part 4

**special filling
on request**

Assortment box out of vanished steel, with 6 small compartments, 1 tool compartment and an inlay out of foam material. Measurements: 245 x 160 x 45 mm



quantity		art.-no.
300 x	0,75 mm ² , grey	51318
300 x	1 mm ² , red	51482
300 x	1,5 mm ² , black	51484
200 x	2,5 mm ² , blue	51342
200 x	4 mm ² , grey	51348
100 x	6 mm ² , yellow	51356
1 x	crimping tool AZ 6	90806

art.-no.: 90869

art.-no.: 90872 like above, but **without** crimping tool

art.-no.: 90824 assortment box **without** content

Assortment box out of vanished steel, with 7 small compartments, 1 tool compartment and an inlay out of foam material. Measurements: 350 x 160 x 35 mm



quantity		art.-no.
300 x	0,75 mm ² , grey	51318
300 x	1 mm ² , red	51482
300 x	1,5 mm ² , black	51484
200 x	2,5 mm ² , blue	51342
200 x	4 mm ² , grey	51348
100 x	6 mm ² , yellow	51356
50 x	10 mm ² , red	51368
1 x	crimping tool AZ 6	90806

art.-no.: 90854

art.-no.: 90860 like above, but **without** crimping tool

art.-no.: 90823 assortment box **without** content

Assortment box out of vanished steel, with 12 small compartments, 1 tool compartment and an inlay out of foam material. Measurements: 350 x 160 x 35 mm



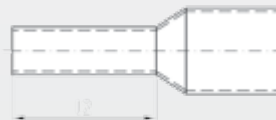
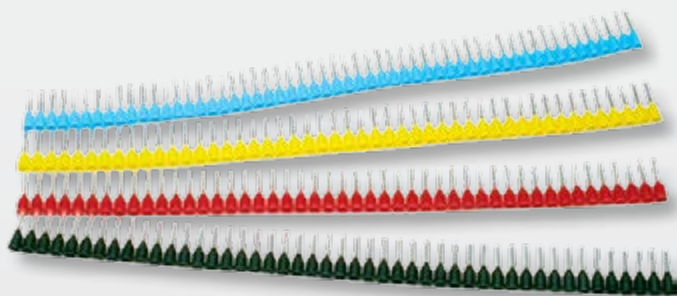
quantity		art.-no.
100 x	0,75 mm ² , grey	51318
100 x	1 mm ² , red	51482
100 x	1,5 mm ² , black	51484
100 x	1,5 mm ² , black	51485
100 x	2,5 mm ² , blue	51342
100 x	2,5 mm ² , blue	51346
100 x	4 mm ² , grey	51348
50 x	6 mm ² , yellow	51356
50 x	10 mm ² , red	51364
50 x	10 mm ² , red	51368
30 x	16 mm ² , blue	51372
50 x	16 mm ² , blue	51376
1 x	crimping tool AZ 6	90806

art.-no.: 90873

art.-no.: 90874 like above, but **without** crimping tool

art.-no.: 90821 assortment box **without** content

Insulated cord-end-sleeves 0.5 – 2.5 mm², strip form
material Cu according to DIN EN 12449 insulation: polypropylen
surface: tin plated **strips with 50 pcs.**



cross selection mm ²	length mm (l2)	colour of insulation	art.- no.	colour of insulation	art.- no.	colour of insulation	art.- no.	Cu-weight 1.000 pcs./kg	packing unit (pcs.)
0,5	8	white	50011	orange	50111	–	–	0,05	500
0,75	8	grey	50016	white	50116	light blue	50216	0,06	500
1	8	red	50021	yellow	50121	–	–	0,06	500
1,5	8	black	50026	red	50126	–	–	0,08	500
2,5	8	blue	50031	–	–	grey	50231	0,09	500

9



Stripping and crimping tool "Stripax Plus" art.-no.: 91010

Crimping tool for crimping insulated cord-end-sleeves in strip form with cross section 0.5 - 2.5 mm². With stripping- and cutting unit for wires up to 2.5 mm².

Working principle:

- Put cord-end-sleeves in strip form into upper part of the grip
- Insert the end of the cable into the front of the tool and strip the insulation
- Now put the stripped cable into the crimp opening from the side and press the grips together. A cord-end-sleeve is pressed onto the cable and the next sleeve is transported into its crimping position automatically.



Cable ties, colour nature + black, polyamide

Cable ties, various colours, polyamide

Cable ties, removable, polyamide

Cable ties with inscription area, polyamide

Cable ties with steel tongue, colour nature + black, polyamide

Cable ties out of stainless steel

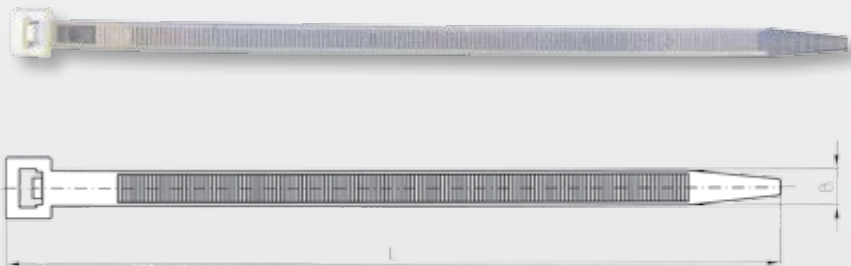
Cable tie mounts, polyamide

Clips, self adhesive, polyamide

Cable ties

material: polyamide 6.6, **colour nature**

temperature of every-day usage: – 40 °C up to + 85 °C



approvals:

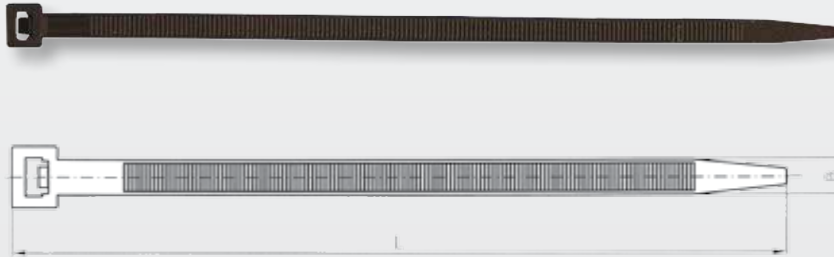


cable ties can be printed with your additional text, see catalogue page 213. Please send us your inquiry.

length mm	width mm	art.- no.	max. bundle-Ø mm	tensile strength Newton	packing unit (pcs.)	tool recommendation	
100	2,5	61051	24	100	100		KB 1 132
135		61053	35				
200		61057	55				
140	3,5	61059	36	190	100		KB 3 132
200		61062	55				
280		61065	80				
360		61068	103				
160	4,5	61071	38	270	100		
180		61073	45				
200		61075	51				
250		61077	68				
280		61080	76				
360		61083	101				
430		61086	123				
180	7,5	61090	44	630	100		
240		61091	62				
320		61095	88				
360		61098	101				
450		61101	130				
540		61104	160				
750		61106	220				
780	9,0	61110	235	780	100		
500	12,5	61116	140	1170	50		
750		61119	222				
1000		61122	300				

Cable ties

material: polyamide 6.6, colour black, UV-stabilized*
 temperature of every-day usage: – 40 °C up to + 85 °C



approvals:



cable ties can be printed with your additional text, see catalogue page 213. Please send us your inquiry.

length mm	width mm	art.- no.	max. bundle-Ø mm	tensile strength Newton	packing unit (pcs.)	tool recommendation
100	2,5	61151	24	100	100	KB 1 132
135		61153	35			
200		61157	55			
140	3,5	61159	36	190	100	
200		61162	55			
280		61165	80			
360		61168	103			
160	4,5	61171	38	270	100	
180		61173	45			
200		61175	51			
250		61177	68			
280		61180	76			
360		61183	101			KB 3 132
430		61186	123			
180	7,5	61190	44	630	100	
240		61191	62			
320		61195	88			
360		61198	101			
450		61201	130			
540		61204	160			
750		61206	220			
780	9	61210	235	780	100	
500	12,5	61216	140	1170	50	
750		61219	222			
1000		61222	300			

* 1-2 years outdoor- and weather-resistant

Cable ties

material: polyamide 6.6, **different colours**

temperature of every-day usage: -40 °C up to + 85 °C



cable ties can be printed with your additional text, see catalogue page 213. Please send us your inquiry.

length mm	width mm	colour	art.- no.	max. bundle-Ø mm	tensile strength Newton	packing unit (pcs.)	tool recommendation
100	2,5	red	61602	24	100	100	KB 3 132, KB 1 132
		blue	61604				
		green	61606				
		yellow	61608				
		grey	61610				
		black	61151				
		nature	61051				
140	3,5	red	61612	36	190	100	
		blue	61614				
		green	61616				
		yellow	61618				
		green	61620				
		black	61159				
		nature	61059				
200	4,5	red	61622	51	270	100	
		blue	61624				
		green	61626				
		yellow	61628				
		grey	61630				
		black	61175				
		nature	61075				
280	4,5	red	61632	76	270	100	
		blue	61634				
		green	61636				
		yellow	61638				
		green	61640				
		black	61180				
		nature	61080				

Cable ties, releasable

material: polyamide 6.6, **colour: nature + black**

temperature of every-day usage: -15 °C up to + 75 °C

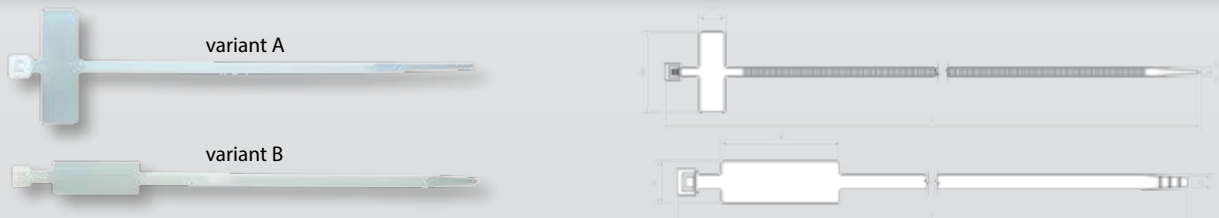


length mm	width mm	colour	art.- no.	max. bundle-Ø mm	tensile strength Newton	packing unit (pcs.)
200	7,5	nature	61660	50	340	100
		black	61662			
250	7,5	nature	61664	65	340	100
		black	61666			
280	7,5	nature	61668	76	340	100
		black	61670			
360	7,5	nature	61672	100	340	100
		black	61674			

Cable ties with label field

material: polyamide 6.6, **colour: nature**

temperature of every-day usage: -15 °C up to + 75 °C

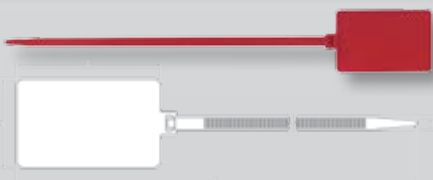


length mm	width mm	inscription area (A x C) mm	variant	art.- no.	max. bundle-Ø mm	tensile strength Newton	packing unit (Stk.)	tool recommendation
100	2,5	25 x 8 (cross)	A	61680	25	100	100	KB 1 132
200				61682	50			
200	4,8	13 x 37 (length)	B	61684	50	270	100	KB 1 + KB 3 132
290				61686	90			

Cable ties with large label field

material: polyamide 6.6, **colour: red**

temperature of every-day usage: -15 °C up to + 75 °C



length mm	width mm	inscription area (A x C) mm	art.- no.	max. bundle-Ø mm	tensile strength Newton	packing unit (pcs.)
363	7,5	51 x 83	61690	70	420	50

Cable ties with steel clip according to DIN EN 50146 version 2000

material: polyamide 6.6, colour nature, steel clip out of stainless steel for high tensile strength
temperature of every-day usage: -40 °C up to +85 °C



approvals:



Cable ties can be printed with your additional text, see catalogue page 213. Please send us your inquiry

length mm	width mm	art.- no.	colour	max. bundle-Ø mm	tensile strength Newton	packing unit (pcs.)	tool recommendation	
100	2,5	61251	nature	24	180	100	KB 1 132	KB 3 132
200		61257		55				
140	3,5	61259		36	280	100		
200		61262		55				
280		61265		80				
200	4,5	61275		51	400	100		
290		61280		76				
360		61283		101				
220	7,5	61291		56	800	50		
360		61298		101				



UV-resistant, 1-2 years outdoor- and weather resistant

length mm	width mm	art.- no.	colour	max. bundle-Ø mm	tensile strength Newton	packing unit (pcs.)	tool recommendation	
100	2,5	61351	black	24	180	100	KB 1 132	KB 3 132
200		61357		55				
140	3,5	61359		36	280	100		
200		61362		55				
280		61365		80				
200	4,5	61375		51	400	100		
290		61380		76				
360		61383		101				
220	7,5	61391		56	800	50		
360		61398		101				

Cable ties out of stainless steel

material: stainless steel 316L (thickness: 0,3 mm)

heat resistance: -80 °C up to +538 °C



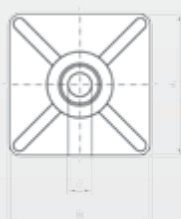
approvals:



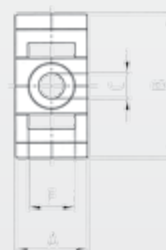
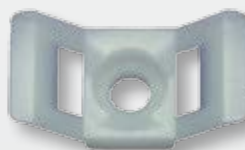
length mm	width mm	art.- no.	max. bundle-Ø mm	tensile strength Newton	packing unit (pcs.)	tool recommendation
152	4,5	61300	25	444	10	KB 7 132
200		61302	50			
360		61304	102			
520	8	61320	152	1111	10	
840		61324	254			
1050		61326	318			
520	12	61330	152	2646	10	
680		61332	203			

Cable tie mounts

material: polyamide 6.6, colour nature



art.-no. 61038 und 61040



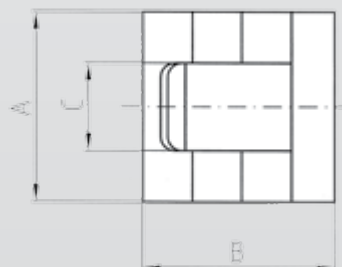
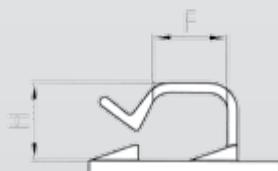
art.-no. 61044

art.-no.	dimensions in mm					packing unit (pcs.)	remarks
	A	B	C	F	H		
61038	19	19	4,8	4	5,3	100	selbstklebend
61040	26,5	26,5	4,9	5,5	6,7		selbstklebend
61044	14,7	30	5,2	9,4	11,5		schraubbar

Cord-clips, self adhesive

applicable for fixing cables, hoses, tubes, etc.

material: polyamide 6.6, colour nature



art.-no.	dimensions in mm					packing unit (pcs.)
	A	B	C	F	H	
61020	19	19	10,1	5,5	5,3	100
61022	26,4	26,7	12,2	11,5	10	
61024	25,7	25,7	16	17,5	15	



Heat shrink tubings in miniboxes
Heat shrink tubings
Assortment boxes

Heat shrink tubings in miniboxes type: W 135 B

material: polyolefin, colour black, shrink ratio 2 : 1

flame-retardant, thin walled



approvals:



size Inches	inside-Ø in mm		art.- no.	wall thickness (mm)	packing unit m
	before shrinking	after shrinking		after shrinking	
3/64	1,2	0,6	65047	0,41	15
1/16	1,6	0,8	65050	0,43	15
3/32	2,4	1,2	65053	0,51	15
1/8	3,2	1,6	65056	0,51	15
3/16	4,8	2,4	65059	0,51	10
1/4	6,4	3,2	65062	0,64	10
3/8	9,5	4,8	65065	0,64	10
1/2	12,7	6,4	65068	0,64	5
3/4	19,1	9,6	65071	0,77	5
1	25,4	12,7	65074	0,89	5

Heat shrink tubings in miniboxes type: W 135 gr/ge B

material: polyolefin, colour green-yellow, shrink ratio 2 : 1

flame-retardant, thin walled



approvals:



size Inches	inside-Ø in mm		art.- no.	wall thickness (mm)	packing unit m
	before shrinking	after shrinking		after shrinking	
3/64	1,2	0,6	65447	0,41	15
1/16	1,6	0,8	65450	0,43	15
3/32	2,4	1,2	65453	0,51	15
1/8	3,2	1,6	65456	0,51	15
3/16	4,8	2,4	65459	0,51	10
1/4	6,4	3,2	65462	0,64	10
3/8	9,5	4,8	65465	0,64	10
1/2	12,7	6,4	65468	0,64	5
3/4	19,1	9,6	65471	0,77	5
1	25,4	12,7	65474	0,89	5

Heat shrink tubings type: W 135

material: polyolefin, colour: black, shrink ratio: 2 : 1

flame-retardant, thin walled



approvals:



E 355596

size Inches	inside-Ø in mm		art.- no.	wall thickness (mm)	packing unit m
	before shrinking	after shrinking		after shrinking	
1/16	1,6	0,8	65001	0,4	150
3/32	2,4	1,2	65003	0,5	150
1/8	3,2	1,6	65006	0,5	150
3/16	4,8	2,4	65009	0,5	75
1/4	6,4	3,2	65012	0,6	75
3/8	9,5	4,8	65015	0,6	75
1/2	12,7	6,4	65018	0,6	50
3/4	19	9,5	65021	0,8	30
1	25,4	12,7	65024	0,9	30
1 ¼	31,8	15,9	65027	0,9	30
1 ½	38	19	65030	1,0	30

Heat shrink tubings type: W 135 tr

material: polyolefin, colour: transparent, **shrink ratio 2 : 1**
 thin walled



size Inches	inside-Ø in mm		art.- no.	wall thickness (mm)	packing unit m
	before shrinking	after shrinking		after shrinking	
1/16	1,6	0,8	65701	0,4	150
3/32	2,4	1,2	65703	0,5	150
1/8	3,2	1,6	65706	0,5	150
3/16	4,8	2,4	65709	0,5	75
1/4	6,4	3,2	65712	0,6	75
3/8	9,5	4,8	65715	0,6	75
1/2	12,7	6,4	65718	0,6	50
3/4	19	9,5	65721	0,8	30
1	25,4	12,7	65724	0,9	30
1 ¼	31,8	15,9	65727	0,9	30
1 ½	38	19	65730	1	30

Heat shrink tubings type: W 135 3 : 1

material: polyolefin, colour: black, **shrink ratio 3 : 1**
 flame retardent, thin walled

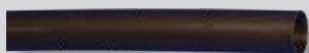


size Inches	inside-Ø in mm		art.- no.	wall thickness (mm)	packing unit m / roll
	before shrinking	after shrinking		after shrinking	
1/8	3,2	1	65106	0,55	150
1/4	6,4	2	65112	0,65	75
3/8	9,5	3	65115	0,75	75
1/2	12,7	4	65118	0,75	50
3/4	19	6	65121	0,85	30
1	25,4	8	65124	1	30
1 ½	39	13	65130	1,15	30

11

Heat shrink tubings type: WKS 3 : 1

material: polyolefin, colour: black, **shrink ratio 3 : 1**
 flame retardent (outer jacket), thin walled, **adhesive-lined**



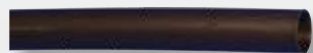
inside-Ø in mm		art.- no.	wall thickness (mm*)	packing unit in length à 1,22 m
before shrinking	after shrinking		after shrinking	
6	2	65212	1,2	1/10
9	3	65215	1,4	1/10
12	4	65218	1,7	1/10
19	6	65221	2,1	1/10
24	8	65224	2,4	1/10
40	13	65227	2,4	1/10

* included adhesive coating

Heat shrink tubings type: WDW

material: polyolefin, colour: black, **shrink ratio: 3 : 1**

thick-walled, not protected against fire, **with inside gluer**



approvals:



* not listed

inside-Ø in mm		art.-no.	wall thickness (mm)**	packing unit
before shrinking	after shrinking			
13	4,1	65318	2,4	1/75
19,1	6,1	65321	2,4	1/35
27,9	8,9	65324	3	1/75
38,1	11,9	65325	4,1	1/40
50,8	16	65327	4,1	1/25
68,1	22,1	65330	4,1	1/15
89,9	30	65333*	4,1	1/10
119,9	39,9	65336*	4,3	1/5

** included adhesive coating

Heat shrink tubings type: W 135 gr/ye

material: polyolefin, colour: green/yellow, **shrink ratio: 3 : 1**

flame retardent, thin walled



approvals:

DEF
STAN
59/97

size Inches	inside-Ø in mm		art.-no.	wall thickness (mm)	packing unit
	before shrinking	after shrinking			
1/8	3,2	1	65406	0,55	1/25
1/4	6,4	2	65412	0,65	1/10
3/8	9,5	3	65415	0,75	1/10
1/2	12,7	4	65418	0,75	1/10
3/4	19	6	65421	0,85	1/10
1	25,4	8	65424	1	1/10

Heat shrink tubings type: W 135 bl

material: polyolefin, colour: blue, **shrink ratio: 3 : 1**

flame retardent, thin walled



approvals:



size Inches	inside-Ø in mm		art.-no.	wall thickness (mm)	packing unit
	before shrinking	after shrinking			
1/8	3,2	1	65506	0,55	1/25
1/4	6,4	2	65512	0,65	1/10
3/8	9,5	3	65515	0,75	1/10
1/2	12,7	4	65518	0,75	1/10
3/4	19	6	65521	0,85	1/10
1	25,4	8	65524	1	1/10

Heat shrink tubings type: WHF

material: polyolefin, colour: black, **shrink ratio 2 : 1**

halogen free, protected against fire (low smoke generation at burnings)



approvals:

DEF
STAN
59/97

size Inches	inside-Ø in mm		art.- no.	wall thickness (mm)	packing unit m/coil
	before shrinking	after shrinking		after shrinking	
1/8	3,2	1,6	65606	0,51	300
3/16	4,8	2,4	65609	0,51	300
1/4	6,4	3,2	65612	0,64	300
3/8	9,5	4,8	65615	0,64	150
1/2	12,7	6,4	65618	0,64	100
3/4	19	9,5	65621	0,76	50
1	25,4	12,7	65624	0,89	50
1 ½	38	19	65630	1,02	50

Assortment box

Heat shrink tubing set with different coloured lengths, **shrink ratio: 2 : 1**
 flame-retardent, thin walled



assortment box out of high quality plastic, filled with coloured
 heat-shrink tubes of size 1,2/0,6 mm – 12,7/6,4 mm
 colours: black, red, yellow, blue, white.
 Exactly content see following table.

Continuous operating temperature: -55 °C to + 125 °C
 Shrink temperature: 110 °C

approvals:



box no.	size Inches	inside-Ø in mm		wall thickness (mm) after shrinking	length mm	quantity pcs.	colours
		before shrinking	after shrinking				
1	3/64	1,2	0,6	0,4	40	je 25	black, yellow, white, red, blue
2	1/16	1,6	0,8	0,4	40	je 25	black, yellow, white, red, blue
3	3/32	2,4	1,2	0,5	40	je 25	black, yellow, white, red, blue
4	1/8	3,2	1,6	0,5	40	je 20	black, yellow, red, blue
5	3/16	4,8	2,4	0,5	40	je 10	black, yellow, red, blue
6	1/4	6,4	3,2	0,6	40	je 5	black, yellow, red, blue
7	3/64	1,2	0,6	0,4	250	5	blue
	1/16	1,6	0,8	0,4	250	5	red
	1/8	3,2	1,6	0,5	250	5	blue
	3/16	4,8	2,4	0,5	250	5	yellow
	1/4	6,4	3,2	0,6	250	5	black
	3/8	9,5	4,8	0,6	250	3	black
8	3/8	9,5	4,8	0,6	125	je 4	yellow, red, blue
9	1/2	12,7	6,4	0,6	125	je 3	yellow, red, blue

Assortment box

90859

Quality, safety and environmental protection

Quality means for us to produce products that provide the desired functionality of the planned service life accurately and reliably. To meet this requirement, we attach great importance to ensuring that every employee the importance of his contribution to the production of highest quality recognizes and acts accordingly. The measure of our quality formulated solely by the customer.

Safety and environmental protection mean for us to develop processes that minimize health and safety risks to our employees and the environmental impacts at the site. To all products delivered high standards are applied with respect to environmental impact.

We guarantee quality, safety and environmental protection through preventive measures. The initial outlay for the early appearance of greater quality and safety planning and contraceptive measures, the error is compensated by the continuous improvement of our processes and methods.



corrosion test



environmental protection



vibration test



electrical type-test



Hand-operated crimping tools

**Pneumatic and electrical
crimping machines**

Pneumatic crimping machine PA 4 without dies



Pneumatic crimping machine with safety control for working without dual safety switch or protection cover.

Maximum operator conveniences with optimal security was the exhallege for the new development of this pneumatic crimping machine PA 4. The new developed security mechanism gives the crimping about a installes safety valve free. The safety valve opens only when the pressing die are less than 5,9 mm open. Security covers for the protection of the users are not necessary any more. By the use of the safety double foot pedal the productivity is increased and simplifies the handling very much. The hands are free for inserting the contacts and cables. In addition you get an optimal processing result through the parallel die-location. Due to of the integrated LED-lamp is the working-place lighted up very well. (The power-supply for the 12V-lighting is included in the scope of the delivery.) A user-friendly work is possible any time by the ergonomic inclination of 10 degree.



A big choice of crimping dies for small contacts are available. (page 113 - 114)

technical data:

air pressure:6 bar
air consumption per stroke:2,3 litre
noise:62 dB(A)
weight incl. foot pedal:.....26 kg
measurements:.....390 x 175 x 440 mm
CE-approval

art.-no.: 90955
(without dies)

assortment box for keeping
equipment and dies

art.-no.: 90824

System crimping tool WZ 12 without dies

12



System crimping tool with changeable dies for crimping nearly every common small electric contact

advantages:

- parallel crimping, therefore optimal press quality
- ratchet with release function for reliable crimping
- possibility to adjust the crimping force by a central pin
- 30% reduced hand force due to optimal transmission by toggle transmission
- delivery including plastic case

length: 210 mm
weight: 0,57 kg

art.-no.: 90712 (without dies)

Crimping dies for PA 3 and WZ 12

further dies are available on request!



dies mandrel shape

for crimping noninsulated ring terminals and connectors and WEITKOWITZ cable lugs and connectors of **0.5 to 10 mm²**.

art.-no.: 90772



dies for insulated terminals

for crimping insulated ring- and fork terminals, pin-terminals, connectors, etc. of **0.5 to 6 mm²**, contact and insulation crimping in one step.

art.-no.: 90773

for crimping insulated ring- and fork-terminals and pin-terminals with cross sections of **10 to 16 mm²** (PA 3 16 mm² ring form only)

art.-no.: 90774



dies for heat shrinkable butt splice connectors

for crimping heat shrinkable butt splice connectors (WEITKOWITZ products) with cross sections of **0.14 to 6 mm²**, catalogue page 73.

art.-no.: 90790



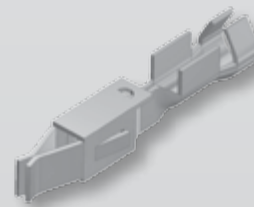
dies for noninsulated open barrel terminals

for crimping noninsulated open barrel male and female terminals (rolled version only) with cross sections of **0.1 to 2.5 mm²** and tab width 2.8 and 4.8 mm; contact and insulation crimping in one step.

art.-no.: 90775

for crimping noninsulated open barrel male and female terminals (rolled version only) with cross sections of **0.5 to 6 mm²** and tab width 4.8 and 6.3 mm; contact and insulation crimping in one step

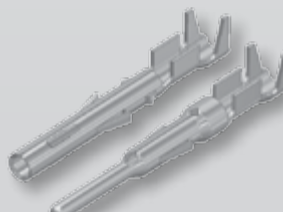
art.-no.: 90776



dies for modular plugs

for crimping modular plugs **0.5 - 2.5 mm²**; contact and insulation crimping in one step.

art.-no.: 90777



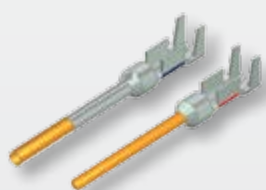
dies for rolled contacts

for crimping rolled contacts **0.14 - 1.5 mm²**; contact and insulation crimping in one step.

art.-no.: 90778

Crimping dies for PA 3 and WZ 12

further dies are available on request!



dies for D-sub-connectors

for crimping D-sub-connectors **0.08 - 0.56 mm²**; contact and insulation crimping in one step.

art.-no.: 90779



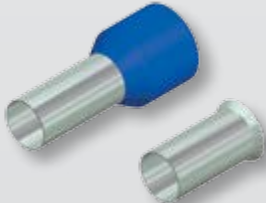
dies for turned contacts

or crimping turned contacts (multipin plug connections)
plug-in-Ø **1.6 mm, 2.4 mm and 2.5 mm**,
cross section : **0.14 - 4.0 mm²**

art.-no.: 90781

for crimping turned contacts (multipin plug connections)
plug-in-Ø **1.6 mm, 2.4 mm and 2.5 mm**,
cross section: **1.5 - 6.0 mm²**

art.-no.: 90782



dies square-shape

for crimping insulated and noninsulated cord-end-sleeves
0.25 - 6 mm², pressing width 12 mm

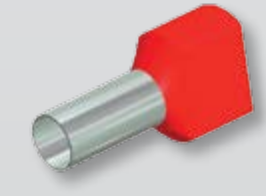
art.-no.: 90784

for crimping insulated and noninsulated cord-end-sleeves
10 - 25 mm², pressing width 12 mm

art.-no.: 90785

for crimping insulated and noninsulated cord-end-sleeves
35 - 50 mm², pressing width 12 mm (not suitable for PA 4)

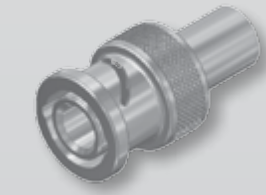
art.-no.: 90786



dies square-shape

for crimping insulated twin-cord-end-sleeves **2 x 6 mm²**
up to **2 x 16 mm²**, pressing width 12 mm.

art.-no.: 90780



dies hexagonal shape

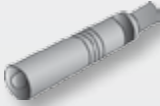
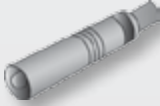
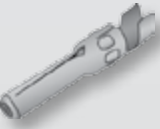
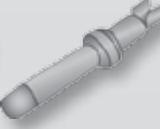
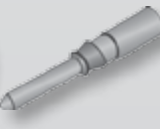
for crimping coax-connectors RG 58, RG 59, RG 62 und RG 71

art.-no.: 90788

for crimping coax-connectors RG 58 und RG 174

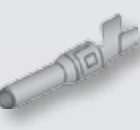
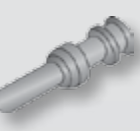
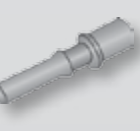
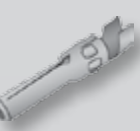
art.-no.: 90789

Crimping dies only for WZ 12, for solar connectors
further dies are available on request!

crimping die	contact support	solar contact	description
			crimping die for solar contacts from Huber & Suhner contacts 2.5 and 4.0 mm ² crimping support art.-no.: 91780
			crimping die for solar contacts from Huber & Suhner contacts 4.0 and 6.0 mm ² crimping support art.-no.: 91781
			crimping die for solar contacts from Multi-Contact "MC 3"- contacts 2.5 / 4.0 / 6.0 mm ² crimping die art.-no.: 90783 contact support art.-no.: 91797
			contacts 4.0 / 6.0 / 10.0 mm ² crimping die art.-no.: 91777 contact support art.-no.: 91778
			crimping die for solar contacts from die for Multi-Contact "MC 4"- contacts 2.5 / 4.0 / 6.0 mm ² crimping die art.-no.: 90787 contact support art.-no.: 91798
			contacts 4.0 / 6.0 / 10.0 mm ² crimping die art.-no.: 91779 contact support art.-no.: 91799
			crimping die for solar contacts from die for Tyco-Solarlok - contacts 1.5 / 2.5 / 4.0 / 6.0 mm ² crimping die art.-no.: 91782 contact support art.-no.: 91783
			crimping die for solar contacts from Hirschmann SunCon - contacts 2.5 / 4.0 / 6.0 mm ² crimping die art.-no.: 91784 contact support art.-no.: 91800
			crimping die for solar contacts from die for Kitani - contacts 2.5 / 4.0 / 6.0 mm ² crimping die art.-no.: 91785 contact support art.-no.: 91786

Crimping dies only for WZ 12, for solar connectors

further dies are available on request

crimping die	contact-support	solar contact	description
			crimping die for solar contacts from Kitani - contacts 2.0 / 3.5 mm ² + AWG 12 crimping dieart.-no.: 91787 contact supportart.-no.: 91788
			crimping die for solar contacts from Yukita - contacts 1.5 / 2.5 / 4.0 / 6.0 mm ² crimping dieart.-no.: 91789 contact supportart.-no.: 91790
			crimping die for solar contacts from Lumberg LC 3 - contacts 2.5 / 4.0 / 6.0 mm ² crimping dieart.-no.: 90748 contact supportart.-no.: 90749
			crimping die for solar contacts from Lumberg LC 4 - contacts 2.5 / 4.0 / 6.0 mm ² crimping dieart.-no.: 90746 contact supportart.-no.: 90747
			crimping die for solar contacts from Wieland - contacts 1.5 / 2.5 mm ² crimping dieart.-no.: 91791 contact supportart.-no.: 91792
			crimping die for solar contacts from Wieland - contacts 4.0 / 6.0 / 10.0 mm ² crimping dieart.-no.: 91793
			crimping die for solar contacts from Amphenol Helios H 4 - contacts 2.5 / 4.0 / 6.0+10.0 mm ² crimping dieart.-no.: 91795 contact supportart.-no.: 91796
			crimping die for solar contacts from Multi-Contact MC 4 - contacts 4.0 mm ² multifunctional use for cutting, stripping and crimping crimping dieart.-no.: 90742 contact supportart.-no.: 90743
			crimping die for solar contacts from Multi-Contact MC 4 - contacts 6.0 mm ² multifunctional use for cutting, stripping and crimping crimping dieart.-no.: 90744

Crimping tools



Crimping tool set WZ 1

art.-no.: 90701

Crimping tool set with changeable dies for crimping all common crimp contacts.

advantages:

- very good cost-performance ratio
- quick and easy change of dies because of quick-locking mechanism
- all components of the set are kept in a high quality transport box with inlay out of foam material

Set consists of:

basic tool:

matt chromium-plated, with releaseable locking device, adjustable crimping pressure, 2-components-handle

Presseinsätze:

- for insulated terminals, connectors and disconnectors, etc. of 0.5 to 6 mm²
- for noninsulated terminals, cable lugs, etc. of 0.5 to 10 mm²
- for cord-end-sleeves of 0.5 to 16 mm²
- for noninsulated male and female disconnectors of 0.5 to 2.5 mm², tab width 4.8 mm² + 6.3 mm²
- and for BNC and TNC coax connectors RG58, RG59, RG62 and RG71 conductors

transport box:

- out of stable plastic with a high quality inlay out of foam material

length: 250 mm

weight: 0,59 kg



Crimping tool WZ 5

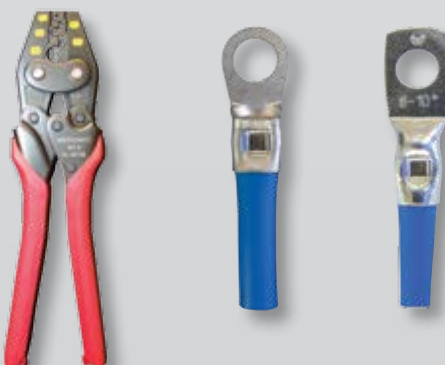
art.-no.: 90705

Tool for crimping insulated and noninsulated terminals, connectors and insulated male and female disconnectors with cross sections of 0.1 to 0.5 mm². The ratchet guarantees a permanent high quality crimping result. When crimping insulated terminals and male and female disconnectors contact and insulation crimping are performed in one step.

length: 190 mm

weight: 0,29 kg

12



Crimping tool WZ 6

art.-no.: 90706

Crimping tool for crimping noninsulated terminals, tubular cable lugs and connectors of the standard-series of 0.5 to 16 mm². The ratchet guarantees a permanent high quality crimping result.

length: 240 mm

weight: 0,4 kg

Crimping tools



Crimping tool WZ 21

art.-no.: 90721

Crimping tool for crimping tubular cable lugs and connectors of the euro-series of 0.5 to 6 mm².

The ratchet guarantees a permanent high quality crimping result. The parallel crimping motion leads to optimal pressing results

length: 210 mm

weight: 0,61 kg



Crimping tool WZ 22

art.-no.: 90722

Crimping tool for crimping tubular cable lugs and connectors of the standard-series of 0,5 to 10 mm².

The ratchet guarantees a permanent high quality crimping result.

length: 225 mm

weight: 0,52 kg



Crimping tool WZ 20

art.-no.: 90720

Crimping tool for crimping noninsulated terminals of 0.1 to 10 mm².

The ratchet guarantees a permanent high quality crimping result.

length: 225 mm

weight: 0,51 kg

Crimping tools



Special crimping tool series for solid conductors 4, 6, 10 or 16 mm²

Special crimping tool for crimping solid conductors in combination with the following series of cable lugs and connectors. A releaseable ratchet guarantees a permanent high quality crimping result. The extremely small crimping head enables convenient working even in areas difficult to reach.

Crimping shape: special mandrel-shape
 length: 275 mm
 weight: 0,52 kg

Four different versions are available:

cross section mm ²	die code no.	applicable for series	art.-no.
4	-	standard - serie	99903
6	5	DIN 46235/DIN 46267 part 1	99907
10	6	DIN 46235/DIN 46267 part 1	99904
16	8	DIN 46235/DIN 46267 part 1	99905



Crimping tool 7

art.-no.: 90707

Crimping tool with end-point-locking for crimping noninsulated open barrel terminals with cross sections of 0.5 to 6 mm² and a tab width of 6.3 mm. Contact and insulation crimping are performed in one step. This tool has a cutting and stripping unit for cables up to 6 mm².

length: 210 mm
 weight: 0,52 kg



Crimping tool WZ 8

art.-no.: 90708

Crimping tool with end-point-locking for crimping noninsulated open barrel terminals with cross sections from 0.5 to 6 mm² and tab width of 4.3 and 6.3 mm. Contact and insulation crimping are performed in one step. The parallel crimping motion leads to optimal pressing results.

length: 205 mm
 weight: 0,6 kg

Crimping tools



Crimping tool WZ 26

art.-no.: 90726

Crimping tool with releaseable locking device for crimping **WEITKOWITZ** insulated flag female disconnectors of 0.5 to 2.5 mm² (catalogue page 78).

length: 260 mm
weight: 0,58 kg



Crimping tool WZ 10

art.-no.: 90710

Crimping tool with a simple design for crimping insulated terminals, male and female disconnectors, etc. of 0.5 to 6 mm². Cable cutter, stripping unit and screw cutter as well as dies for spark-plugs and ignition distributor contacts make these pliers an universal tool.

The WZ 10 is made of high resistance steel with fine grain micro-structure. All parts of the tool are case hardened and subsequently tempered.

length: 210 mm
weight: 0,22 kg



Crimping tool WZ 9

art.-no.: 90709

Crimping tool with end-point-locking for crimping insulated terminals, connectors, male and female disconnectors, receptacles and bullet disconnectors of 0.5 to 6 mm².

This tool has a cutting and stripping unit for cables up to 6 mm².

length: 210 mm
weight: 0,52 kg

Crimping tool



Crimping tool WZ 23

art.-no.: 90723

High-performance crimping tool with releaseable locking device for crimping insulated terminals, connectors, male and female disconnectors, receptacle and bullet disconnectors of 0.5 to 6 mm². Contact and insulation crimping are performed in one step.

The optimized lever transmission guarantees an easy, power-saving working.

length: 255 mm

weight: 0,6 kg



Crimping tool WZ 24

art.-no.: 90724

Crimping tool with releaseable locking device for crimping insulated terminals, connectors, male and female disconnectors, receptacles and bullet disconnectors of 0.5 to 6 mm². Contact and insulation crimping are performed in one step.

The toggle transmission enables an advantageous opening angle and reduced hand forces during crimping.

length: 225 mm

weight: 0,52 kg



Crimping tool WZ 28

art.-no.: 90728

Crimping tool for crimping insulated terminals with cross sections of 10 mm² and 16 mm² and closed-end-connectors 10 mm². The releaseable locking device guarantees a permanent high quality crimping result.

length: 245 mm

weight: 0,41 kg

Crimping tools for cord-end-sleeves



Crimping tool AZ 14

art.-no.: 90814

Crimping tool with releaseable locking device for crimping cord-end-sleeves of 0.08 to 10 mm². Cord-end-sleeves are inserted into the universal die and are equally pressed from four sides. This square crimping guarantees optimal contact zones for clamping. The ergonomically formed, soft cushioned 2-components-handle guarantees a convenient usage.

length: 175 mm
weight: 0,41 kg



Crimping tool AZ 10

art.-no.: 90810

Crimping tool with releaseable locking device for crimping cord-end-sleeves of 0.14 to 4 mm². Cord-end-sleeves are inserted into the universal die and are equally pressed from four sides. This square crimping guarantees optimal contact zones for clamping. The ergonomically formed, soft cushioned 2-components-handle guarantees a convenient usage.

length: 190 mm
weight: 0,41 kg



Crimping tool AZ 8

art.-no.: 90808

Crimping tool with releaseable locking device for crimping cord-end-sleeves of 0.08 to 16 mm². The cord-end-sleeves are inserted into the universal die from the front and are equally pressed from four sides. This results in optimal contact zones for clamping.

The adjustment to the cross section being crimped is performed fully automatically.

length: 190 mm
weight: 0,5 kg

Crimping tools for cord-end-sleeves

Innovation



Crimping tool AZ 5

art.-no.: 90805

Crimping tool with releasable locking device for crimping cord-end-sleeves of 0.25 – 6 mm².

Good handiness through the pistol form. Front pressing, very well suitable for house installation and switchgear construction.

Steady square contour guarantees good contact surfaces.

The maximum crimping length amount to 18 mm. (Of 12 mm you must be pressed twice.)

length: 160 mm

weight: 0,43 kg



Crimping tool AZ 16

art.-no.: 90752

Crimping tool with releaseable locking device for crimping cord-end-sleeves of 6 to 16 mm². Press length: 13 mm

length: 260 mm

weight: 0,58 kg

Electric hand crimping tool CRIMMBOSS for crimping cord-end-sleeves



Forceful advantages:

- powerful:** ■ electric drive 220 V (110 V available on request)
- universal:** ■ for crimping insulated cord-end-sleeves 0.5 – 2.5 mm² without changing dies
- press length 12 mm
- simple:** ■ automatic release after inserting a cord-end-sleeve
- practical:** ■ easily mounted at nearly any place due to magnet holder
- safe:** ■ safe handling, of course with CE-sign
- good value:** ■ very good cost-performance ratio

Crimmboss
Magnet holder for Crimmboss

art.-no.: 90755
art.-no.: 90756

Crimping tools for cord-end-sleeves



Cord-end-sleeve crimping pliers AZ 4

art.-no.: 90804

Crimping pliers for crimping cord-end-sleeves from 0.14 to 2.5 mm², square-shaped crimping.

length: 165 mm

weight: 0,2 kg



Cord-end-sleeve crimping pliers AZ 6

art.-no.: 90806

Crimping pliers for crimping cord-end-sleeves from 0.5 to 16 mm², in transverse direction notching. Easy handling because of optimal lever transmission.

length: 190 mm

weight: 0,24 kg

Special crimping tools for tubular oval-connectors



Special crimping tools for tubular oval-connectors

art.-no.: 99056

Special crimping tool with toggle transmission and releaseable locking device for crimping tubular oval-connectors from 0.5 to 4 mm². The parallel crimping and the wave-shaped dies (specially designed for WEITKOWITZ oval-connectors) guarantee optimal crimping results (catalogue page 17).

length: 210 mm

weight: 0,62 kg



Wire strippers

Stripping tools | Assortments

Cable tension tools

Cable cutters

Stripping tools



Stripax-automatic wire stripping tool AB 13

art.-no.: 90713

Stripping tool with automatic insulation slip off. For wires from 0.08 to 6 mm². The elastically mounted, lamellated wire stripper adjusts automatically to the respective conductor cross section. The AB 13 is equipped with a touch protected wire cutter for finewiring copper cables up to 4 mm² and a stop in order to adjust easily the insulation length to be stripped off.

length: 180 mm weight: 0,17 kg

Replacemant stripping-unit for AB 13 art.-no.: 90792



Automatic wire stripping tool AB 14

art.-no.: 90714

Stripping tool with automatic insulation slip off. For wires from 0.2 to 6 mm². Small, slim design for convenient usage even in areas difficult to reach. The ergonomic, slim design enables working easily without any efforts. Because of the blade's design damaging the inner conductors during working can be excluded. The AB 14 is provided with a wire cutter for cables up to 2.5 mm², an adjustable length stop and a locking lever for transportation.

Länge: 185 mm Gewicht: 0,12 kg



Automatic wire stripping tool AB 15

art.-no.: 90715

Stripping tool with automatic insulation slip off. For wires from 0,03 bis 10 mm². The tool does automatically adjust to wire size and insulation for optimal stripping. Applicable for single or multiwire PVC-and a large variety of Teflon[®]-, Radox[®]- or rubber-insulated cables. With build-in wire cutter for Cu and Al multi-wire cables up to 10 mm² and single wire cables up to 6 mm². The blade and length stop are easy to replace. The tool body is made of glass fibre reinforced plastic. The ergonomically formed, soft cushioned 2-components-handle guarantees a convenient usage.

length: 195 mm weight: 0,15 kg

Replacemant stripping-unit for AB 15 art.-no.: 90798



Automatic wire stripping tool AB 19

art.-no.: 90719

Stripping tool with automatic insulation slip off. For wires from 0.08 to 6 mm². The elastically mounted, lamellated wire stripper adjusts automatically to the respective conductor cross section. The blades consist of metal completely. The AB 19 is equipped with a touch protected wire cutter for finewiring copper cables up to 4 mm² and a stop in order to adjust easily the insulation length to be stripped off. The ergonomic handgrip make this tool convenient to use even for people with small hands.

length: 180 mm weight: 0,18 kg

Replacemant stripping-unit for AB 19 art.-no.: 90794

Stripping tools and cable cutters



Automatic wire stripping tool AB 4

art.-no. 90704

Ergonomic wire stripping tool with automatical insulation slip off. Stripping range: 0,1 - 4 mm². With V-blades, for harder insulations like AWG-wires at shipbuilding and a multiplicity of PTFE (Teflon®)-wires. The build-in cable cutter has a cutting range up to 6 mm² for stranded conductors and up to 1.5 mm² for single solid conductors. An adjustable cable-stopper is existing. A specially designed movable handle with a soft rubber inlay, low friction, optimised handle opening width, an angled head and low weight safeguard comfortable work with lowest work load.

length: 191 mm weight: 0,15 kg

Ersatz-Abisoliereinheit für AB 4 art.-no.: 90795



Automatic wire stripping tool AB 16

art.-no.: 90716

Wire stripping tool with automatic insulation slip off. For wires from 1 to 25 mm².

length: 220 mm weight: 0,68 kg

Ersatz-Abisoliereinheit für AB 16 art.-no.: 90796



Wire stripping tool for solar cable AB 2

art.-no.: 90702

Special insulation stripping tool with length stop for high quality stripping and dismantling of solar-cable 1.5 to 6 mm². No pinching or deforming of cable ends by special cutting mode.

Model: chrome plated, with ergonomically designed two-components handles.

length: 200 mm weight: 0,46 kg

Ersatz-Abisoliereinheit für AB 2 art.-no.: 90797



Round cable stripper no. 13

art.-no.: 90812

For round and continental type cables of 8 - 13 mm outside-Ø (NYM 3 x 1.5 mm² to 5 x 2.5 mm²). Flush stripping even in areas hard to reach. No damages of the inner conductors. An adjustment of the cutting depth is not necessary

length: 120 mm weight: 0,1 kg



Coaxial cable stripper no. 2

art.-no.: 90813

Two- or three-level stripping of all common coaxial cables (e.g. antenna and transmission cables) from 4.8 to 7.5 mm outside-Ø. An adjustment of cutting depth is not necessary.

length: 110 mm weight: 0,1 kg

Stripping tools and Cable cutters



Swivel-blade cable strippers with knife

art.-no.: 90818

Cable stripper for accurate, fast and safe stripping of all common round cables from 4 to 28 mm outside-Ø. No damages of the inner conductors due to variable adjustment of the cutting depth.

length: 175 mm weight: 0,1 kg

Replacement cutting blade for cable stripper art.-no.: 90826



Skinning tool AM 2

art.-no.: 90816

Skinning tool for round cables from 4.5 to 40 mm Ø and a max. insulation strength of 4.5 mm. Because of defined locking positions it is possible to perform circle, longitudinal and spiral cuttings. Two interchangeable cable hooks (small hook for 4.5 - 25 mm Ø and big hook for 20 - 40 mm Ø) make the AM2 an universal skinning tool. It is an extremely ergonomic tool and consists of a modern, high-resistant plastic material. Replacement cutting blades are available and can be stored inside the tool.

length: 115 mm weight: 0,17 kg

Replacement cutting blade for AM 2 art.-no.: 90793



Cable stripping knife KM 1

art.-no.: 91811

cable stripping knife with special grinding. The special blade prevented a damage of the conductor. The knife has blade protection, sinking into the handle. The changeable blade is made of stainless steel according to DIN EN 10020, hardness minimum 50 HRC. The high-quality, ergonomically formed handle is out of impact plastic (PA). With admission of the VDE up to 1000 volt according to EN/IEC 60900:2004 and GS-sign.

length: 200 mm weight: 0,1 kg

spare blade with moulded plastic insert for KM 1

art.-no.: 91891



Cable stripping knife KM 3

art.-no.: 91813

cable stripping knife with changeable and customary trapeze blade. The knife has blade protection. The protection is sinkable into the handle. The high-quality, ergonomically formed handle is out of impact resistant plastic (PA). With admission of the VDE up to 1000 volt according to EN/IEC 60900:2004 and GS-sign.

length: 200 mm weight: 0,1 kg

spare trapeze blade for KM 3 art.-no.: 91893

Cable tension tools



Skinning tool AM 1

art.-no.: 90815

Skinning tool for round cables from 25 mm Ø on, suitable for longitudinal and round section. The depth of the cut is adjustable from 0 to 5 mm. The cutting blade can be used double-sided. Delivery including plastic box.

length: 50 mm weight: 0,16 kg

Replacement cutting blade for AM 1 art.-no.: 90791



Outside cleading cutter AMX

art.-no.: 91821

The outside cleading cutter with rapid clamping system can be used to strip the outer sheath from NS and MS conductors with an outside diameter of 16 up to 54 mm. A switch lever between longitudinal section and round cut as well as an additional claw for breaking the insulation are available. The positioning on the cable is made by a clamping system. The cut depth is adjustable from 0 – 5 mm in steps of 0.1 mm. The feed rate is made by a ratchet wrench. The maximum rotation diameter is 300 mm. The components are produced from aluminum and stainless steel. The moldings are made of impact-resistant plastic material. The blades are from alloyed steel according to EN 10020 with a hardness of least 50 HRC.

delivery completely with AMX-device, ratchet wrench and nylon case.

length: 250 mm weight: 1,32 kg

Spare blade with screw and hex-wrench for AMX

art.-no.: 91881



Cable stripper for vulcanized semi conductive layer FBS

art.-no.: 91822

The device is for stripping the vulcanized semi conductive layer of NS and MS conductors. The maximum layer thickness is 1.5 mm. The stripper can be used for insulation diameter of 10 up to 52 mm. The positioning on the cable is made by a clamping system. The stripping process can be started and stopped in every position of the cable.

A switch lever to activate/inactivate the axial traverse speed is available. The device has optimum gliding properties through coated contact surfaces. The maximum rotation diameter is 200 mm. The components are made of aluminium, steel and brass, with anodized, chromium-plated and nickel-plated surfaces. The form parts are of impact resistant plastic. The blades are from alloyed steel according to EN 10020 with a hardness of least 55 HRC.

length: 170 mm weight: 0,79 kg

spare blade 17° for FBS

art.-no.: 91882

spare tube – silicone paste 100 m

art.-no.: 91899

Cable tension tools



Inside cleading cutter (universal) IMS II

art.-no.: 91823

The inside cleading cutter IMS II can be used for stripping-off the primary insulation on the ends of medium voltage conductors of 6 up to 45 kV with outside diameters of 15 up to 52 mm and a maximum insulation thickness of 15 mm. The positioning on the cable is made by a clamping system. Spiral and circle cuts are possible. The cut depth is adjustable of 0 up to 15 mm and the feed rate is selectable in 5 steps. The stripping can be stopped in every position of the cable. The stripping length is unlimited. The device has optimum gliding properties through coated contact surfaces.

The maximum rotation diameter is 220 mm.

The components are made of aluminium, steel and brass, with anodized, chromium-plated and nickel-plated surfaces. The blades are from alloyed steel according to EN 10020 with a hardness of least 55 HRC.

delivery completely with IMS II device, silicone paste, allen wrench 2.5 mm, plastic case

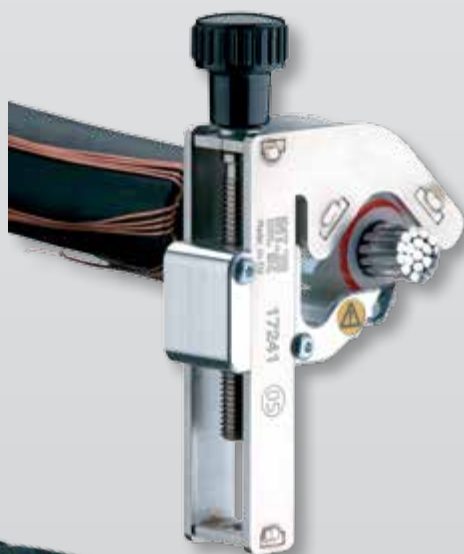
length: 170 mm weight: 1 kg

spare blade for IMS II

art.-no.: 91883

spare tube – silicone paste 100 ml

art.-no.: 91899



Chamfer cutter UFS

art.-no.: 91824

The chamfer cutter UFS is for chamfering the primary insulation of medium voltage conductors with outside diameter from 15 up to 60 mm.

The positioning on the cable is made by a clamping system. The device has PTFE-plates for optional gliding properties on the cable. A silicone paste is not necessary.

Size of the chamfer: 2 mm x 60°

The maximum rotation diameter is 220 mm.

The device is light and has a robust construction form. The components are made of aluminium and steel. The blades are from alloyed steel according to EN 10020 with a hardness of least 55 HRC.

delivery completely with UFS device, allen wrench 2.5 mm, nylon case

length: 145 mm weight: 0,39 kg

spare blade for UFS

art.-no.: 91884

Assortment with cable tension tools



Innovation



Assortment with cable tension tools

art.-no.: 97040

contains:

Skinning tool AM 1

art.-no.: 90815

Outside cleading cutter AMX

art.-no.: 91821

Cable stripper for vulcanized semi conductive layer FBS

art.-no.: 91822

Inside cleading cutter (universal) IMS II

art.-no.: 91823

Chamfer cutter UFS

art.-no.: 91824

For more detailed description, see previous pages.

Cable tension tools



Cable tie tension tool for plastic-cable ties KB 1

art.-no.: 90888

For tensioning and cutting plastic cable ties in one step. The tractive force is steplessly adjustable. By cutting of the cable tie aligned with the clasp, sharp edges are avoided. Applicable for cable ties up to 4.8 mm width.

length: 165 mm
weight: 0,3 kg



Cable tie tension tool for plastic-cable ties KB 3

art.-no.: 90895

For tensioning and cutting plastic cable ties up to 9.5 mm width and a maximum strength of 2.3 mm. Handy, robust tool.

length: 190 mm
weight: 0,25 kg



Cable tie tension tool for cable ties out of stainless steel KB 7

art.-no.: 90897

For tensioning and cutting cable ties out of stainless steel in one step. The tractive force is steplessly adjustable. Applicable for cable ties up to 8 mm width and maximum strength of 0.3 mm.

length: 180 mm
weight: 0,55 kg

Cable cutters



Cable cutter scissor KS 1

art.-no.: 91831

cutting area:
straight blade area 0.5 - 6 mm²
integrated cable cutter up to 50 mm²

- ergonomical and extremely robust
- high cutting performance
- loose-free screw/pin fixing
- 2-component-handles
- with special safety box

scope of delivery: cable cutter scissor KS 1, safety box

length: 150 mm

weight: 0,17 kg



Cable cutter KS 35

art.-no.: 90842

High quality forged cable cutter for cutting stranded aluminium and copper cables up to 35 mm², resp. up to 11 mm outsideØ.

Long life cycle, low efforts during cutting and a clean, round cut make the KS 35 a convenient tool.

length: 165 mm

weight: 0,2 kg

Cable cutters



Cable cutter KS 50

art.-no.: 90829

High quality forged cable cutter for cutting stranded aluminium and copper cables up to 50 mm², resp. up to 15 mm outside-Ø.

Long life cycle, low efforts during cutting and a clean, round cut make the KS 50 a convenient tool.

length: 215 mm

weight: 0,3 kg



Cable cutter KS 30

art.-no.: 90833

Cable cutter for cutting stranded aluminium and copper cables up to 30 mm outside-Ø. Cutting area for copper cables for example:

- finewiring cables up to 1 x 240 mm²
- stranded cables up to 1 x 70 mm²
- PVC insulated power cable NYY up to 4 x 25 mm²

The cutting blades consist of a hardened special tool steel.

Not applicable for cutting **steel-wires**, cables with **steel-insertion** and **solid conductors**.

length: 440 mm

weight: 1,25 kg



Cable cutter KS 32

art.-no.: 90835

Cable cutter for cutting stranded aluminium and copper cables up to 32 mm outside-Ø. Cutting area for copper cables for example:

- finewiring cables up to 1 x 240 mm²
- stranded cables up to 1 x 70 mm²
- PVC insulated power cable NYY up to 4 x 25 mm²

The cutting blades consist of a hardened special tool steel.

Not applicable for cutting steel-wires, cables with steel-insertion and solid conductors.

length: 600 mm

weight: 1,5 kg

Cable cutters



Cable cutter KS 42

art.-no.: 90834

Cable cutter for cutting stranded aluminium and copper cables up to 32 mm outside-Ø. Cutting area for copper cables for example:

- finewiring cables up to 1 x 500 mm²
- stranded cables up to 1 x 300 mm²
- PVC insulated power cable NYY up to 4 x 70 mm²

The cutting blades consist of a hardened special tool steel.

Not applicable for cutting **steel-wires**, cables with **steel-insertion** and **solid conductors**..

length: 800 mm

weight: 3,3 kg



Cable cutter KS 34 S

art.-no.: 90910

Very robust and smooth running cable cutter for cutting stranded aluminium and copper cables up to 4 x 70 approx. 1 x 185 mm² and finewiring conductors up to 34 mm outside-diameter. The double needle beared and patented excentric dive compined with a special blade design guarantees the excellent efficiency of this cable cutter.

Not applicable for cutting steel-wires, cables with steel-insertion and solid conductors.

length: 250 mm

weight: 0,9 kg



Cable cutter KS 52 S

art.-no.: 90913

Very robust and smooth running cable cutter for cutting stranded aluminium and copper cables up to 4 x 120 approx. 1 x 300 mm² and finewiring conductors up to 52 mm outside-diameter. The double needle beared and patented excentric dive compined with a special blade design guarantees the excellent efficiency of this cable cutter.

Not applicable for cutting **steel-wires**, cables with **steel-insertion** and **solid conductors**.

length: 325 mm

weight: 1,2 kg

Cable cutters



Cable cutter KS 60

art.-no.: 90916

Very stable and smooth hand-operated cable cutter for cutting stranded aluminium and copper cables with a coat of hard rubber or plastic up to 60 mm outside-Ø, e.g. 4 x 240 mm² NAYY. No squeezing, no deformation of the conductor, easy clean cut due to ratchet gearing. It is possible to open the cutter in any cutting position. The cutting blades consist of a hardened special tool steel. With telescopic arms anodized aluminum tube and 2-component handles.

Not applicable for cutting steel-wires, cables with steel-insertion and solid conductors.

length: 610 bis 810 mm

weight: 3,85 kg



Cable cutter KS 100

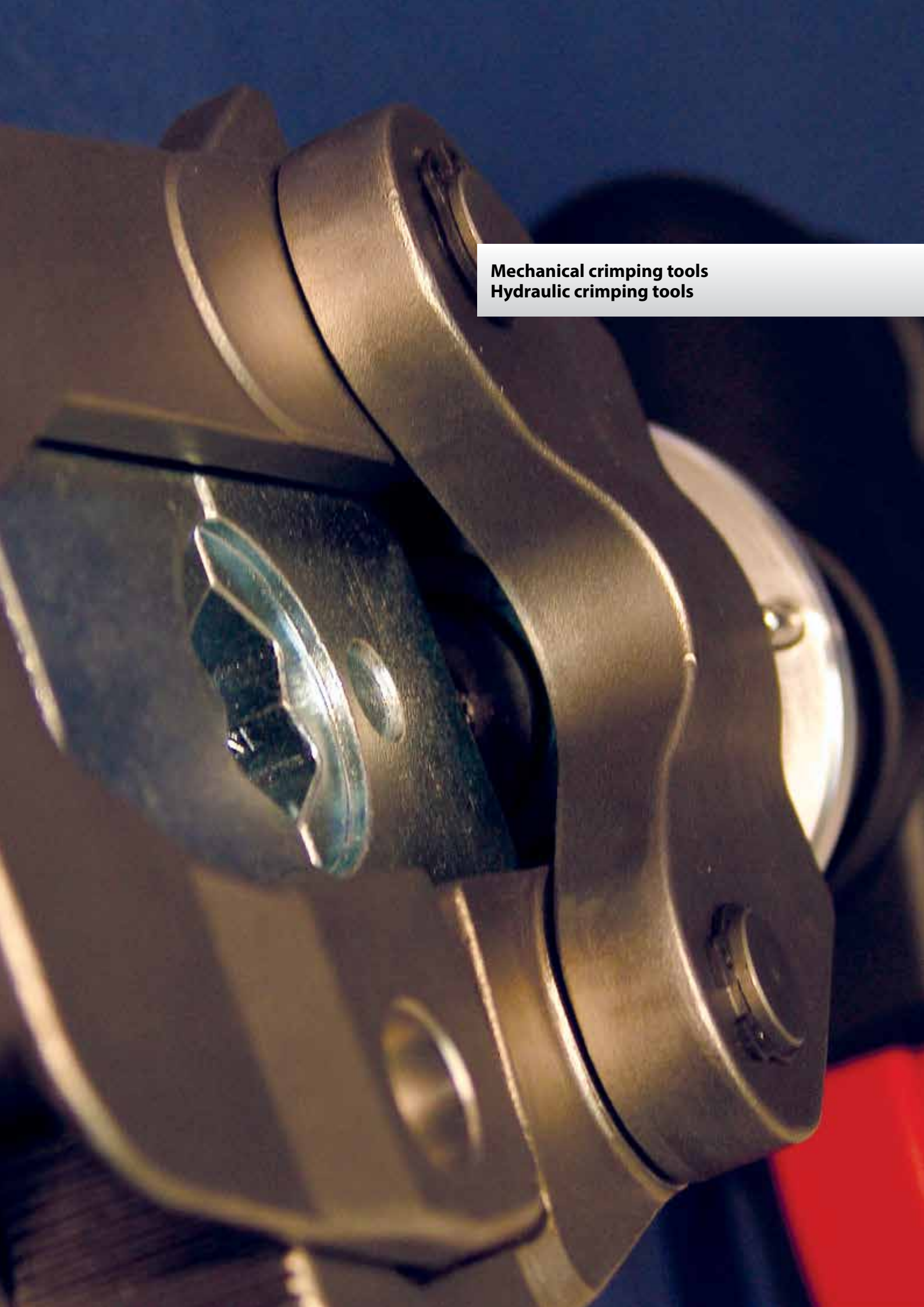
art.-no.: 90919

Very stable and smooth hand-operated cable cutter for cutting stranded aluminium and copper cables with a coat of hard rubber or plastic up to 100 mm outside-Ø, e.g. 4 x 400 mm² NAYY. No squeezing, no deformation of the conductor, easy clean cut due to ratchet gearing. It is possible to open the cutter in any cutting position. The cutting blades consist of a hardened special tool steel. With telescopic arms anodized aluminum tube and 2-component handles.

Not applicable for cutting steel-wires, cables with steel-insertion and solid conductors.

length: 660 bis 860 mm

weight: 4,98 kg

A close-up, high-contrast photograph of a mechanical crimping tool. The tool is made of polished metal and is shown in the process of crimping a wire. The wire is visible, partially encased in the tool's jaws. The background is dark and out of focus, with a hint of a red object in the lower right corner. The lighting highlights the metallic surfaces and the precision of the tool's design.

Mechanical crimping tools
Hydraulic crimping tools

Crimping tools



Crimping tool KW 50/120 Crimping tool KW 70/150

art.-no.: 90160

art.-no.: 90165

Crimping tool 120/240

art.-no.: 90170

Crimping tool for crimping **WEITKOWITZ** tubular cable lugs and connectors of the **standard-** and **euro-series**.

application range:

KW 50/120	=	50 bis 120 mm ²
KW 70/150	=	70 bis 150 mm ²
KW 120/240	=	120 bis 240 mm ²

The cross section can be adjusted by turning the in-built revolving dies. So there is no need of changing dies. Extension spars are provided.

length: 630 mm, with extension spars 950 mm
weight: 5,2 kg



Crimping tool DP 6/95

art.-no.: 90131

Crimping tool for crimping **WEITKOWITZ** tubular cable lugs and connectors of the standard- and euro-series, for crimping terminals DIN 46 234, pin terminals DIN 46 230 and connectors DIN 46351 with cross sections from 6 mm² to 95 mm².

- with two threads for mounting on a workbench
- easy adjustment of cross section by an adjustable, self-locking gearing.

So there is no need of changing dies

- with telescopic tubes
- with locking device, the tool opens not until a started crimping process has been finished

length: 535 mm bis 730 mm
weight: 3,5 kg



Crimping tool PW 6/50

art.-no.: 90180

Crimping tool for crimping **WEITKOWITZ** tubular cable lugs and connectors of the standard-series (catalogue page 8 - 18).

application range: 6 - 50 mm²

The cross section can be adjusted by turning the in-built revolving dies. So there is no need of changing dies. Furthermore this tool points by small measurements, light weight and an extremely high crimping quality due to WM-crimping.

length: 380 mm
weight: 1,3 kg

Crimping tools



Crimping tool WW 6/50

art.-no.: 90179

Crimping tool for crimping tubular cable lugs and connectors of the euro-series (catalogue page 28 - 37).

application range: 6 - 50 mm²

The cross section can be adjusted by turning the in-built revolving dies. So there is no need of changing dies. Furthermore this tool points by small measurements, light weight and an extremely high crimping quality due to WM-crimping.

length: 380 mm
weight: 1,3 kg



Crimping tool DW 6/50

art.-no.: 90178

Crimping tool for crimping compression cable lugs DIN 46235, compression connectors DIN 46267, aluminium cable lugs and connectors (catalogue page 38 - 54).

application range: Cu 6 - 50 mm² (K 5 - K 14)
Alu 16 - 35 mm² (K 10 - K 14)

The cross section can be adjusted by turning the in-built revolving dies. So there is no need of changing dies. Furthermore this tool points by small measurements, light weight and an extremely high crimping quality due to hexagonal-shape-crimping.

length: 380 mm
weight: 1,3 kg



Crimping tool PW 6/70

art.-no.: 90181

Crimping tool for crimping **WEITKOWITZ** tubular cable lugs and connectors of the standard-series (catalogue page 8 - 18).
application range: 6 - 70 mm²

The cross section can be adjusted by turning the in-built revolving dies. So there is no need of changing dies. Furthermore this tool points by small measurements, light weight, optimized transmission ratio and an extremely high crimping quality due to precisely guided dies.

crimping profile: WM-crimping

length: 515 mm
weight: 2 kg

Crimping tools

Crimping tool DW 6/70

art.-no.: 90182

Crimping tool for crimping compression cable lugs DIN 46235, compression connectors DIN 46267, aluminium cable lugs and connectors (catalogue page 40 – 56).

application range:

Cu von 6 - 70 mm² (K 5 - K 16)

Alu von 10 - 50 mm² (K 10 - K 16)

The cross section can be adjusted by turning the in-built revolving dies. So there is no need of changing dies. Furthermore this tool points by small measurements, light weight, optimized transmission ratio and an extremely high crimping quality due to precisely guided dies.

crimping profile: hexagonal-shape with control embossing

length: 515 mm

weight: 2 kg

Crimping tool WW 6/70

art.-no.: 90186

Crimping tool for crimping tubular cable lugs and connectors of the euro-series (catalogue page 28 – 37).

application range: 6 bis 70 mm²

The cross section can be adjusted by turning the in-built revolving dies. So there is no need of changing dies. Furthermore this tool points by small measurements, light weight, optimized transmission ratio and an extremely high crimping quality due to precisely guided dies.

crimping profile: WM-crimping

length: 515 mm

weight: 2 kg

Crimping tool FW 10/70

art.-no.: 90184

Crimping tool for crimping **WEITKOWITZ** tubular cable lugs and connectors for finewiring conductors (catalogue page 20 - 26).

application range: 10 bis 70 mm²

The cross section can be adjusted by turning the in-built revolving dies. So there is no need of changing dies. Furthermore this tool points by small measurements, light weight, optimized transmission ratio and an extremely high crimping quality due to precisely guided dies.

crimping profile: WM-crimping

length: 515 mm

weight: 2,1 kg



Crimping tools



Crimping tool PW 10/120

art.-no.: 90185

Crimping tool for crimping WEITKOWITZ tubular cable lugs and connectors of the standard-series (catalogue page 9 - 18).

application range: 10 bis 120 mm²

The cross section can be adjusted by turning the in-built revolving dies. So there is no need of changing dies. Furthermore this tool points by small measurements, light weight and an extremely high crimping quality due to WM-crimping.

length: 660 mm
weight: 4,1 kg



Crimping tool WW 10/120

art.-no.: 90188

Crimping tool for crimping tubular cable lugs and connectors of the euro-series (catalogue page 28 - 37).

application range: 10 bis 120 mm²

The cross section can be adjusted by turning the in-built revolving dies. So there is no need of changing dies. Furthermore this tool points by small measurements, light weight and an extremely high crimping quality due to WM-crimping.

length: 660 mm
weight: 4,1 kg



Crimping tool DW 10/120

art.-no.: 90189

Crimping tool for crimping compression cable lugs DIN 46235, compression connectors DIN 46267, aluminium cable lugs and connectors (catalogue page 40 - 56).

application range:

Cu von 10 - 120 mm² (K 6 - K 20)
Alu von 10 - 70 mm² (K 10 - K 18)

The cross section can be adjusted by turning the in-built revolving dies. So there is no need of changing dies.

crimping shape: hexagonal-shape with control embossing

length: 660 mm
weight: 4,1 kg

Hand-operated mechanical compression tool MP 13 without dies



Robust and handy precision tool with ratchet gearing for crimping cable lugs and connectors up to 50 mm². The locking device guarantees a constantly optimal crimping depth and quality.

Advantages:

- compact construction form, only 270 mm long
- small weight, only 1.45 kg
- press capacity: approx. 27 kN
- hinged head
- low efforts due to ratchet gearing
- mechanical, therefore no problems because of dirt or oil leakage

art.-no.: 90200



Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors of the standard-series (page 9 - 18). Not suitable for cable lugs from other manufacturers!

mm ²	art.-no.	mm ²	art.-no.
10	90202	35	90205
16	90203	50	90206
25	90204		



Presseinsätze WM-Form

for crimping cable lugs and connectors of the **euro-series** (page 18 – 37).

mm ²	art.-no.	mm ²	art.-no.
6	90432	25	90253
10	90251	35	90254
16	90252	50	90255



Dies hexagonal-shape

for crimping compression copper cable lugs DIN 46 235 (page 40 – 44), compression copper connectors DIN 46 267 Teil 1 (page 47 – 48) and compression aluminium and aluminium/ copper cable lugs and connectors (page 50 – 56)

die code	Cu mm ²	Al mm ²	art.-no.
5	6	–	90208
6	10	–	90209
8	16	–	90210
10	25	10	90211
12	35	16+25	90212
14	50	35	90213

Compression dies for MP 13



Dies mandrel-shape

for crimping noninsulated terminal DIN 46 234 (page 62 – 65), pin terminals DIN 46 230 (Seite 66) and connectors DIN 46 341 part 1 (page 67).

mm ²	art.-no.	mm ²	art.-no.
6	90243	25	90246
10	90244	35	90247
16	90245		



Dies

for crimping insulated terminals (page 71, 73 and 74).

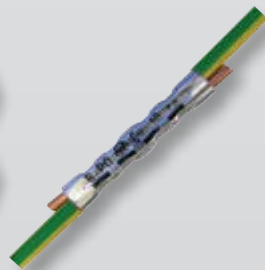
mm ²	art.-no.	mm ²	art.-no.
10	90221	25	90223
16	90222		



Dies square-shape

for crimping cord-end-sleeves (page 88 – 93)
crimping width: 18 mm

mm ²	art.-no.	mm ²	art.-no.
6	90225	25	90228
10	90226	35	90229
16	90227	50	90230



Dies

for crimping WEITKOWITZ oval-connectors (page 17).
crimping profile: wave-shape crimping

mm ²	art.-no.	mm ²	art.-no.
6	99752	10	99753



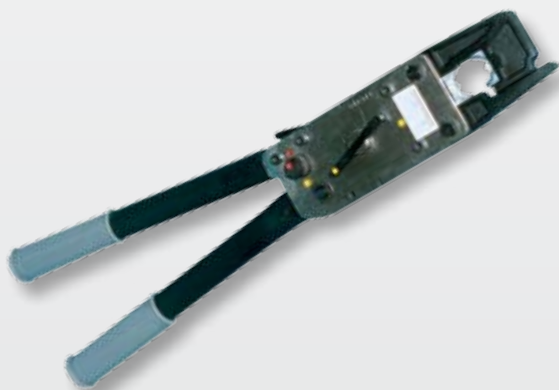
Transport case

art.-no.: 90248

Varnished steel box for keeping the MP 13 and up to 16 pairs of dies.

measurements: 295 x 180 x 55 mm

Hand-operated mechanical compression tool MP 1 without dies



Robust and handy precision tool with ratchet gearing for crimping cable lugs and connectors up to 120 mm². The locking device guarantees a constantly optimal crimping depth and quality.

Advantages:

- compact construction form, only 420 mm long
- small weight, only 2.4 kg
- press capacity: approx. 55 kN
- hinged head
- low effort due to ratchet gearing
- mechanical, therefore no problems because of dirt or oil leakage

art.-no.: 90300



Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors of the **standard-series** (page 9 - 18).
Not suitable for cable lugs from other manufacturers!

mm ²	art.-no.	mm ²	art.-no.
10/70	90301	95	90304
16/35	90302	120	90305
25/50	90303		



Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors for finewiring conductors (page 20 - 26).
Not suitable for cable lugs of other manufacturers!

mm ²	art.-no.	mm ²	art.-no.
10f/25f	90331	70f	90334
16f/35f	90332	95f	90335
50f	90333		

Compression dies for MP 1



Presseinsätze WM-Form

for crimping cable lugs and connectors of the **euro-series** (Seite 28 - 37).

mm ²	art.-no.	mm ²	art.-no.
6	90430	25/50	90393
10/70	90390	95	90394
16/35	90398	120	90395



Dies hexagonal-shape

for crimping compression copper cable lugs DIN 46 235 (page 40 - 45), compression copper connectors DIN 46 267 part 1 (page 47 - 48) and compression aluminium and aluminium/ copper cable lugs and connectors (page 50 - 57)

die code	Cu mm ²	Al mm ²	art.-no.
5	6	–	90310
6/16	10/70	–/50	90311
8/12	16/35	–/16+25	90312
10/14	25/50	10/35	90313
18	95	70	90314
20	120	–	90315



Dies mandrel-shape

for crimping noninsulated terminals DIN 46 234 (page 62 – 65), pin terminals DIN 46 230 (Seite 64) and connectors DIN 46 341 part 1 (page 65).

mm ²	art.-no.	mm ²	art.-no.
6	90491	35	90495
10	90492	50	90496
16	90493	70	90497
25	90494		



Dies

for crimping insulated terminals (page 71 bis 74)

mm ²	art.-no.	mm ²	art.-no.
10	90320	35	90323
16	90321	50	99696
25	90322	70	99697

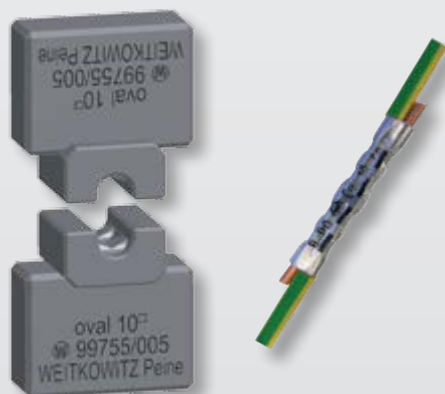
Compression dies for MP 1



Dies square-shape

for crimping cord-end-sleeves (page 88 bis 92),
crimping width: 19 mm

mm ²	art.-no.	mm ²	art.-no.
6	90324	25	90327
10	90325	35	90328
16	90326	50	90329



Dies

for crimping **WEITKOWITZ** oval-connectors (page 17).
crimping profile: wave-shape crimping

mm ²	art.-no.	mm ²	art.-no.
6	99754	10	99755



Dies for round forming

for rounding sector-shaped copper and aluminium conductors
crimping width: 12 mm

mm ² sm	mm ² se	art.-no.
10	–	90371
16	–	90372
25	35	90373
35	50	90374
50	70	90375
70	95	90376
95	120	90377
120	150	90378

sm = stranded conductors

se = solid conductors



Transport case

art.-no.: 91112

Varnished steel box for keeping the MP 1 and up to 21 pairs of dies.
measurements: 480 x 230 x 60 mm

Hand-operated mechanical compression tool MP 2 without dies



Robust and handy precision tool with ratchet gearing for crimping cable lugs and connectors up to 240 mm². The locking device guarantees a constantly optimal crimping depth and quality.

Advantages:

- compact construction form, only 530 mm long
- small weight, only 4.7 kg
- press capacity: approx. 100 kN
- hinged head
- low effort due to ratchet gearing
- mechanical, therefore no problems because of dirt or oil leakage

art.-no.: 90260



Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors of the **standard-series** (page 9 - 18).

Not suitable for cable lugs from other manufacturers!

mm ²	art.-no.	mm ²	art.-no.
10	90604	95	90265
16	90605	120	90266
25	90606	150	90267
35	90607	185	90268
50	90263	240	90269
70	90264		



Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors for **finewiring conductors** (page 20 - 26).

Not suitable for cable lugs from other manufacturers!

mm ²	art.-no.	mm ²	art.-no.
10f	90440	70f	90445
16f	90441	95f	90446
25f	90442	120f	90447
35f	90443	150f	90448
50f	90444	185f	90449

Compression dies for MP 2



Dies WM-shape

for crimping cable lugs and connectors of the **euro-series** (page 28 - 37).

mm ²	art.-no.	mm ²	art.-no.
6	90431	70	90237
10	90272	95	90238
16	90273	120	90266
25	90234	150	90267
35	90235	185	90268
50	90236	240	90269



Dies hexagonal-shape

for crimping compression copper cable lugs DIN 46 235 (page 40 - 45), compression copper connectors DIN 46 267 part 1 (page 47 - 48) and compression aluminium and aluminium/copper cable lugs and connectors (page 50 - 57).

die code	Cu mm ²	Al mm ²	art.-no.
5	6	–	90278
6	10	–	90279
8	16	–	90280
10	25	10	90281
12	35	16+25	90282
14	50	35	90283
16	70	50	90284
18	95	70	90285
20	120	–	90286
22	150	95 + 120	90287
25	185	150	90288
28	240	185	90289
32	–	240	90291



Dies mandrel-shape

for crimping noninsulated terminals DIN 46234 (Seite 62 to 65), pin terminals DIN 46230 (page 66) and connectors DIN 46341 part 1 (page 67).

mm ²	art.-no.	mm ²	art.-no.
6	90478	50	90483
10	90479	70	90484
16	90480	95	90485
25	90481	120	90476
35	90482	150	90477

Compression dies for MP 2



Dies

for crimping insulated terminals (page 71 - 74)

mm ²	art.-no.	mm ²	art.-no.
10	90461	50	90465
16	90462	70	90466
25	90463	95	90467
35	90464	120	90468



Dies square-shape

for crimping cord-end-sleeves (page 89 - 91 and 93).
crimping width: 24 mm

mm ²	art.-no.	mm ²	art.-no.
10	90633	50	90637
16	90634	70	90638
25	90635	95	90639
35	90636	120	90640



Dies for round forming

for rounding sector-shaped copper and aluminium conductors
crimping width: 16 mm

mm ² sm	mm ² se	art.-no.
10	–	90620
16	–	90621
25	35	90622
35	50	90623
50	70	90624
70	95	90625
95	120	90626
120	150	90627
150	185	90628
185	240	90629
240	300	90630

sm = stranded conductors

se = solid conductors



Transport case

art.-no.: 90299

Varnished steel box for keeping the MP 2 and up to 33 pairs of dies.
measurements: 625 x 250 x 70 mm

STILO1 – hydraulic battery tool 45kN

Battery-powered hydraulic compression hand-crimping tool for crimp cable lugs and connectors up to 150 mm².



Characteristics

- extremely quick processing due to a three-stage axial piston pump
- wide application range up to 150 mm²
- 270° revolving head with quick opening and closing
- automatic pressure limits and monitoring through pressure sensor
- engine shutdown and automatic retract after completed pressing
- manual retract with button
- save of all crimps and error messages on internal memory
- selections of all cycles and error messages about USB interface
- no uncompleted pressing cycles through ongoing monitoring of the rest battery cargo load
- controlled engine drive to the life extension of gearbox, engine and battery
- integrated service management and software updates about the USB interface
- fast tool return pipe through high return flow volume
- sleep-mode; maintenance indication and battery control
- integrated, intelligent electronics assembly with multifunctional LED
- mini-USB interface for all standard computer systems for:
- Li-Ion battery with charge level indicator: 18 V 1.5 Ah
- measurements: 370 x 123 x 80 mm
- max. piston stroke: 16 mm; press capacity: 45 kN
- weight incl. battery: 2.3 kg



range of application	cross section mm ²
Dies, WM-shape for standard-series	10 – 150
Dies, WM-shape for cable lugs and connectors, flexible copper cables	10f – 120f
Dies, WM-shape for euro-series	6 – 150
Dies, hexagonal-shape for compression cable lugs (DIN 46235) + connectors (DIN 46267)	6 – 150 (K5-K22)
Dies, hexagonal-shape for Aluminium cable lugs and connectors	10 – 120 (K6-K22)
Dies, mandrel-shape for crimping non insulated terminals DIN 46234	6 – 50
Dies, for crimping insulated terminals	10 – 50
Dies square-shape for crimping cord-end-sleeves	6 – 50
Dies for rounding sector-shaped copper and aluminium conductors	10 – 150

Delivery completely:

- Hydraulic tool including 1x battery and 1x battery charger
- Manual
- Software
- USB connection cable
- Carrying bag without dies

art.-no.	description
91100	hydraulic tool STILO 1
91101	Replacement



Dies for hydraulic battery tool STILO1

Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors of the standard-series

Not suitable for cable lugs from other manufacturers!



art.-no.	mm ²
90301	10/70
90302	16/35
90303	25/50
90304	95
90305	120
90306	150

Dies mandrel-shape

for crimping noninsulated terminals DIN 46 234, pin terminals DIN 46 230, and connectors DIN 46 341 part 1



art.-no.	mm ²
90491	6
90492	10
90493	16
90494	25
90495	35
90496	50

Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors for **finewiring conductors**.

Not suitable for cable lugs of other manufacturers!



art.-no.	mm ²
90331	10f/25f
90332	16f/35f
90333	50f
90334	70f
90335	95f
90336	120f

Dies

for crimping insulated terminals



art.-no.	mm ²
90320	10
90321	16
90322	25
90323	35
99696	50

Dies WM-shape

for crimping cable lugs and connectors of the euro-series



art.-no.	mm ²
90430	6
90390	10/70
90398	16/35
90393	25/50
90394	95
90395	120
90306	150

Dies square-shape

for crimping cord-end-sleeves
crimping width: 19 mm



art.-no.	mm ²
90324	6
90325	10
90326	16
90327	25
90328	35
90329	50

Dies hexagonal-shape

for crimping compression copper cable lugs DIN 46 235, compression copper connectors DIN 46 267 part 1 and compression aluminium and aluminium/cu copper cable lugs and connectors



art.-no.	die code	Cu	mm ²	Al
90310	5	6	–	–
90311	6/16	10/70	–/50	–
90312	8/12	16/35	–/16+25	–
90313	10/14	25/50	10/35	–
90314	18	95	70	–
90315	20	120	–	–
90316	22	150	–	–
90318	22	–	120	–
90319	22	–	95	–

Dies for round forming

for rounding sector-shaped copper and aluminium conductors
crimping width: 12 mm



sm = stranded conductors
se = solid conductors

art.-no.	mm ² sm	mm ² se
90371	10	–
90372	16	–
90373	25	35
90374	35	50
90375	50	70
90376	70	95
90377	95	120
90378	120	150
90379	150	185

Battery-powered compression tool AP 10 without dies



Battery-powered hydraulic compression tool for crimping cable lugs and connectors up to 240 mm²

advantages:

- extremely quick processing due to a two-stage hydraulic pump
- 270° revolving head with quick opening and closing
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- lithium-ion-battery without memory effect, self discharges very low
- high capacity due 3.0 Ah battery
- fastening eye for balance and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- universal usage: dies for all versions of cable lugs and connectors are available

– integrated electronic module for:

- permanent accumulator-loading state control
- supervision of the working process and state announcement
- announcement of the next service intervall
- mistake announcement at possible disturbances

delivery completely with battery, battery charger and supporting loop for transport and safety, transport plastic case

technical data:

press capacity:approx. 55 kN
 operating voltage: 14.4 Volt
 tool measurements: B 95 x L 360 x H 330 mm
 weight: 3.6 kg (incl. battery)
 battery charger: 220 – 240 V, 50–60 Hz, 7.2-18 V
 time of loading:approx. 50 minutes

art.-no.: 91120

You find further accessories for the AP 10 on catalogue page 182!

Hand-operated hydraulic compression tool HPi 10 without dies



Hand-operated hydraulic compression tool for crimping cable lugs and connectors up to 240 mm².

advantages:

- extremely quick processing due to a two-stage hydraulic pump
- extremely light, handy and compact construction form
- 180° revolving head with quick opening and closing
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- universal usage: dies for all versions of cable lugs are available
- delivery completely transport plastic case (without dies)

technical data:

press capacity: approx. 55 kN
length 400 mm
weight 2,6 kg

art.-no.: 91111

Hydraulic compression head HPW 10 without dies



Hydraulic compression head for crimping cable lugs and connectors up to 240 mm².

advantages:

- light, handy, compact construction
- wide application range
- hinged head, therefore quick insertion and removal of cable lugs and connectors
- quick connection via plug-in coupling free of leakage
- you can use all dies from our tools AP 10 and HPi 10
- delivery in a high-quality nylon case

technical data:

hydraulic pressure max. 700 bar (70 MPa)
press capacity ca. 60 kN
length 204 mm
weight 1,6 kg

art.-no.: 90653

Compression dies for AP 10, HPI 10 and HPW 10



Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors of the **standard-series** (page 9 - 18).

Not suitable for cable lugs from other manufacturers!

mm ²	art.-no.	mm ²	art.-no.
10/70	91302	120	91306
16/35	91303	150	91307
25/50	91304	185	91308
95	91305	240	91309



Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors for **finewiring conductors** (page 20 - 26)

Not suitable for cable lugs from other manufacturers

mm ²	art.-no.	mm ²	art.-no.
10f/25f	91330	95f	91334
16f/35f	91331	120f	91335
50f	91332	150f	91336
70f	91333	185f	91337



Dies WM-shape

for crimping cable lugs and connectors of the **euro-series** (page 28 bis 37).

mm ²	art.-no.	mm ²	art.-no.
6	91315	120	91320
10/70	91316	150	91307
16/35	91317	185	91308
25/50	91318	240	91309
95	91319		



Dies hexagonal-shape

for crimping compression copper cable lugs DIN 46 235, compression copper connectors DIN 46 267 part 1 and compression aluminium and aluminium/copper cable lugs and connectors (page 40 bis 57).

die code	Cu mm ²	Al mm ²	art.-no.
5	6	–	91343
6/16	10/70	–/50	91344
8/12	16/35	–/10+25	91345
10/14	25/50	16/35	91346
18	95	70	91347
20	120	–	91348
22	150	95 + 120	91349
25	185	150	91350



Dies mandrel-shape

for stainless steel cable lugs (page 60)

mm ²	for use*	art.-no.
1,5 - 2,5	VA / Cu	91480
4-6	VA / Cu	91481
10	VA / Cu	91482
16	VA / Cu	91483
25	VA / Cu	91484
35	VA	91485
35	Cu	91486

* VA / Cu = for stainless steel ropes and copper-conductors (finewiring and stranded-precompressed)

VA = only for stainless steel ropes

Cu = only for copper conductors (finewiring and stranded-precompressed)

Compression dies for AP 10, HPi 10 and HPW 10



Dies mandrel-shape

for crimping noninsulated terminals DIN 46 234, pin terminals DIN 46 230 and connectors DIN 46 341 part 1 (part 62 - 67)

mm ²	art.-no.	mm ²	art.-no.
6	91465	50	91470
10	91466	70	91471
16	91467	95	91472
25	91468	120	91473
35	91469		



Dies

for crimping insulated terminals (page 71 bis 74)

mm ²	art.-no.	mm ²	art.-no.
10	91372	35	91375
16	91373	50	91376
25	91374	70	91377



Dies square-shape

for crimping cord-end-sleeves (p. 88 - 93), crimping width: 19 mm

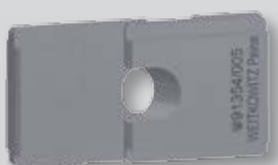
mm ²	art.-no.	mm ²	art.-no.
6	91383	50	91388
10	91384	70	91389
16	91385	95	91390
25	91386	120	91391
35	91387		



Dies for round forming

for rounding sector-shaped copper and aluminium conductors
crimping width: 12 mm

mm ² sm	mm ² se	art.-no.	mm ² sm	mm ² se	art.-no.
10	–	91450	95	120	91456
16	–	91451	120	150	91457
25	35	91452	150	185	91458
35	50	91453	185	240	91459
50	70	91454	240	300	91460
70	95	91455			



Cutting die

art.-no.: 91354

for coarsewiring aluminium and copper cables without steel
insertion up to Ø 12 mm.

Battery-powered compression tool APi 20 without dies



Battery-powered hydraulic compression tool for crimping cable lugs and connectors up to 300 mm².

advantages:

- extremely quick processing due to a two-stage hydraulic pump
- wide application range up to 300 mm²
- 360° revolving head with quick opening and closing
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- lithium-ionen-battery without memory effect, self-discharges very low
- high capacity due to 3.0 Ah-battery
- eyelet for balancer and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- universal usage: dies for all versions of cable lugs are available
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service interval
 - mistake announcement at possible disturbances

delivery completly with battery, battery charger, supporting loop for transport and safety, transport plastic case

technical data::

press capacity approx. 62 kN
 operating voltage.....14,4 Volt
 tool measurements..... 95 x 350 x 310 mm
 weight..... 3,9 kg (incl. battery)
 battery charger 220–240V 50–60Hz 7,2-18V
 loading time approx. 50 minutes

art.-no.: 91142

You find further accessories for the APi 20 on catalogue page 182!

Hand-operated hydraulic compression tool HPi 20 without dies



Hand-operated hydraulic compression tool for crimping cable lugs and connectors up to 300 mm².

advantages:

- extremely quick processing due to a two-stage hydraulic pump
- wide application range up to 300 mm²
- 180° revolving head with quick opening and closing
- light, handy and short construction form
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- universal usage: dies for all versions of cable lugs are available

delivery completely with transport case out of plastic

technical data:

press capacityca. 62 kN
length 396 mm
weight.....2,8 kg

art.-no.: 91132

Hydraulic compression head HPW 20 without dies



Hydraulic compression head for crimping cable lugs and connectors up to 300 mm².

advantages:

- light, handy, compact construction
- wide application range
- hinged head, therefore quick insertion and removal of cable lugs and connectors
- quick connection via plug-in coupling free of leakage
- unior APi 20 and HPi 20 are available
- delivery in a transport caseout of plastic

technical data:

hydraulic pressure.....max. 700 bar (70 MPa)
press capacityca. 60 kN
length 198 mm
weight.....1,7 kg

art.-no.: 90656

Hand-operated mechanical compression tool MPi 20 without dies



Hand-operated mechanical compression tool for crimping cable lugs and connectors up to 300 mm²

advantages:

- light and compactly construction form
- universal usage: dies for all versions of cable lugs are available
- 360° revolving head with quick opening and closing
- continuous moveable telescopic handle
- delivery completely with transport case out of plastic

technical data:

press capacity ca. 60 kN
length 560 bis 830 mm
weight 3,6 kg

art.-no.: 90250



Storage box for pressing inserts

transport case for dies, out of varnished steel,
measurements 375 x 235 x 55 mm

for keeping 19 pair of dies and 1 big case for special dies or dies with extremely press width. The sturdy box has two locks and a sturdy carrying handle.

For dies on catalogue page 142 – 166.

art.-no.: 90825

Compression dies for APi 20, HPi 20, MPi 20 and HPW 20



Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors of the **standard-series** (page 9 - 18).
 Not suitable for cable lugs from other manufacturers!

mm ²	art.-no.	mm ²	art.-no.	mm ²	art.-no.
10	91602	50	91606	150	91610
16	91603	70	91607	185	91611
25	91604	95	91608	240	91612
35	91605	120	91609	300	91613



Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors for **finewiring conductors** (page 20 - 26).
 Not suitable for cable lugs from other manufacturers!

mm ²	art.-no.	mm ²	art.-no.	mm ²	art.-no.
10f	91638	50f	91642	150f	91646
16f	91639	70f	91643	185f	91647
25f	91640	95f	91644	240f	91648
35f	91641	120f	91645		



Dies WM-shape

for crimping cable lugs and connectors of the **euro-series** (page 28 to 37).

mm ²	art.-no.	mm ²	art.-no.	mm ²	art.-no.
6	91619	50	91624	185	91611
10	91620	70	91625	240	91612
16	91621	95	91626	300	91613
25	91622	120	91627		
35	91623	150	91610		



Dies hexagonal-shape

for crimping compression copper cable lugs DIN 46235, (page 40 bis 45), compression copper connectors DIN 46267 part 1 (page 46 bis 48), compression aluminium and aluminium/ copper cable lugs and connectors (page 50 - 57).

die code	Cu mm ²	Al mm ²	art.-no.
5	6	–	91654
6	10	–	91655
8	16	–	91656
10	25	10	91657
12	35	16 + 25	91658
14	50	35	91659
16	70	50	91660
18	95	70	91661
20	120	–	91662
22	150	95 + 120	91663
25	185	150	91664
28	240	185	91665
32	300	240	91666

Compression dies for APi 20, HPi 20, MPi 20 and HPW 20



Dies mandrel-shape

for crimping noninsulated terminals DIN 46234, pin-terminals DIN 46230 and connectors DIN 46341 part 1 (page 62 - 67)

mm ²	art.-no.	mm ²	art.-no.
6	91731	50	91736
10	91732	70	91737
16	91733	95	91738
25	91734	120	91739
35	91735		



Presseinsätze

for crimping insulated terminals (page 71 - 74)

mm ²	art.-no.	mm ²	art.-no.
10	91693	50	91697
16	91694	70	91698
25	91695	95	91699
35	91696		



dies square-shape

for crimping insulated and noninsulated cord-end-sleeves (page 88 - 93) crimping width: 22 mm

mm ²	art.-no.	mm ²	art.-no.
6	91705	70	91711
10	91706	95	91712
16	91707	120	91713
25	91708	150	91714
35	91709	185	91715
50	91710	240	91716



Dies for round-forming

for rounding sector-shaped copper and aluminium conductors crimping width: 22 mm

mm ² sm*	mm ² se*	art.-no.
10	–	91718
16	–	91719
25	35	91720
35	50	91721
50	70	91722
70	95	91723
95	120	91724
120	150	91725
150	185	91726
185	240	91727
240	300	91728

*sm = stranded conductors, se = solid conductors

Battery-powered compression tool APi 30 without dies



technical data:

press capacity	ca. 80 kN
operating voltage.....	14,4 Volt
tool measurements.....	95 x 406 x 310 mm
weight.....	5,4 kg (incl. battery)
battery charger	220–240V, 50–60 Hz, 7,2-18V
loading time.....	ca. 50 minutes

art.-no.: 91162

Battery-powered hydraulic compression tool for crimping cable lugs and connectors up to 400 mm².

Advantages:

- extremely quick processing due to a two-stage hydraulic pump
- 360° revolving head with quick opening and closing
- wide application range up to 400 mm suitable for cutting cables up to 28 mm outside diameter
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- lithium-ionen-battery without memory effect, self-discharges very low
- high capacity due to 3.0 Ah-battery
- eyelet balancer and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service interval
 - mistake announcement at possible disturbances
- delivery completely with battery, battery charger, supporting loop for transport and safety, transport plastic case

additional equipment for APi 30 on page 182!

Hand-operated hydraulic compression tool HPi 30 without dies



art.-no.: 91152

hand-operated hydraulic compression tool for crimping cable lugs and connectors up to 400 mm².

advantages:

- extremely quick processing due to a two-stage hydraulic pump
- wide application range up to 400 mm²
- 360° revolving head with quick opening and closing
- hinged head, therefore trouble-free working even at heavily accessible places
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- universal usage: dies for all versions of cable lugs are available

delivery completely with transport case out of plastic

technical data:

press capacity	ca. 80 kN
length	550 mm
weight.....	5,3 kg

Battery-powered compression tool APi 35 without dies



art.-no.: 91167

technical data:

press capacity ca. 80 kN
operating voltage..... 14,4 Volt
tool measurements..... 95 x 440 x 310 mm
weight..... 5,4 kg (incl. battery)
battery charger 220–240V, 50–60 Hz, 7,2-18V
loading time ca. 50 minutes

Battery-powered hydraulic compression tool for crimping cable lugs and connectors up to 300 mm².

advantages:

- C-head, ideally for continuous quick working (side loading of connectors)
- ideal for series-production
- extremely quick processing due to a two-stage hydraulic pump
- 360° revolving head
- application range from 6 up to 300 mm²
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- lithium-ion-battery without memory effect, self-discharges very low
- high capacity due to 3.0 Ah battery
- eyelet balancer and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service interval
 - mistake announcement at possible disturbances

delivery completely with battery, battery charger, supporting loop for transport and safety, transport plastic case

additional equipment for APi 35 on page 182!

Hand-operated hydraulic compression tool HPi 35 without dies



art.-no.: 91157

technical data:

press capacity ca. 80 kN
length 580 mm
weight..... 5,3 kg

Hand-operated hydraulic compression tool for crimping cable lugs and connectors up to 300 mm².

advantages:

- C-head, ideally for continuous quick working
- extremely quick processing due to a two-stage hydraulic pump wide application range up to 300mm²
- 360° revolving head
- ideal for series-production
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- universal usage: dies for all versions of cable lugs are available

delivery completely with transport case out of plastic

Hydraulic compression head HPW 15 without dies



Hydraulic compression head for crimping cable lugs and connectors up to 300 mm²

advantages:

- C-head for a quick and easy insertion and removal of cable lugs and connectors, perfectly suitable for serial crimping
- quick connection because of plug-in coupling free of leakage

Technical data:

hydraulic pressure.....max. 700 bar
Presskraft:.....ca. 80 kN
length:335 mm
weight:.....3,6 kg

art.-no.: 90602

Hydraulic compression head HPW 17 without dies



Hydraulic compression head for crimping cable lugs and connectors up to 400 mm². Cutting dies for coarsewiring and finewiring cables up to 28 mm outside diameter are available.

advantages:

- wide application range: cable lugs and connectors 6 - 400 mm²
- light and handy, compact construction
- hinged head, therefore quick insertion and removal of cable lugs and dies
- cutting dies for cables up to 28 mm outside diameter are available
- quick connection via plug-in coupling free of leakage

Technical data:

hydraulic pressure.....max. 700 bar
press capacityca. 80 kN
length300 mm
weight.....3,8 kg

art.-no.: 90651

Innovation

Telescop holder PA1-0400

table or wall mounting for stationary working place with changeable hydraulic tool



The illustrated tool is not included in the delivery and can be ordered separately.

The telescope holder is adaptable and be used easily on different working places. The device can be fastened on a job or on the wall. Thereby the working routine is made easier and accelerated.

art.-no.: 97139

technical data:

torque moment.....70 Nm
maximum bearing capacity....10 kg
pivot radius.....630 – 920 mm

Clamping jaws for HPW 15 and HPW 17



art.-no.: 90601

Compression dies for APi 30, HPi 30, APi 35, HPi 35, HPW 15 and HPW 17



Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors of the **standard-series** (page 9 – 18).
Not suitable for cable lugs from other manufacturers!

mm ²	art.-no.	mm ²	art.-no.
10	90604	120	90266
16	90605	150	90267
25	90606	185	90268
35	90607	240	90269
50	90263	300	90270
70	90264	400	90271
95	90265		

APi 35, HPi 35, HPW 15 only 10 bis 300 mm²!



Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors for **finewiring conductors** (page 20 – 26).
Not suitable for cable lugs from other manufacturers!

mm ²	art.-no.	mm ²	art.-no.
10f	90440	95f	90446
16f	90441	120f	90447
25f	90442	150f	90448
35f	90443	185f	90449
50f	90444	240f	90450
70f	90445		



Dies WM-shape

for crimping cable lugs and connectors of the **euro-series** (page 28 bis 37).

mm ²	art.-no.	mm ²	art.-no.
6	90431	95	90238
10	90272	120	90266
16	90273	150	90267
25	90234	185	90268
35	90235	240	90269
50	90236	300	90270
70	90237	400	90271

APi 35, HPi 35, HPW 15 only 6 - 300 mm²!



Dies

for crimping insulated terminals (page 71 bis 74).

mm ²	art.-no.	mm ²	art.-no.
10	90461	70	90466
16	90462	95	90467
25	90463	120	90468
35	90464	150	90469
50	90465		

APi 35, HPi 35, HPW 15 only 10 - 120 mm²!

Compression dies for APi 30, HPi 30, APi 35, HPi 35, HPW 15 and HPW 17



Dies hexagonal-shape

for crimping compression copper cable lugs DIN 46 235 (page 40 - 45)
 compression copper connectors DIN 46 267 part 1 (page 46 - 48)
 compression aluminium and aluminium/copper cable lugs and connectors (page 50 - 57)

die code	Cu mm ²	Al mm ²	art.-no.
5	6	–	90278
6	10	–	90279
8	16	–	90280
10	25	16	90281
12	35	25	90282
14	50	35	90283
16	70	50	90284
18	95	70	90285
20	120	–	90286
22	150	95 + 120	90287
25	185	150	90288
28	240	185	90289
32	300	240	90290
34	–	300	90292

APi 35, HPi 35, HPW 15 only K 5 – K 28!



Dies for compression copper cable lugs 2-conductor-version

for crimping compression copper cable lugs 2-conductor-version (page 44)
 crimping width: 12 mm (2 crimpings at each cable lug necessary)

mm ²	art.-no.	mm ²	art.-no.
2 x 70	99805	2 x 120	99641
2 x 95	99640		



Dies mandrel-shape

for crimping noninsulated terminals DIN 46 234 (page 62 - 65),
 pin terminals DIN 46 230 (page 66)
 and connectors DIN 46 341 part 1 (page 67)

mm ²	art.-no.	mm ²	art.-no.
6	90478	70	90484
10	90479	95	90485
16	90480	120	90476
25	90481	150	90477
35	90482	185	90488
50	90483	240	90489

APi 35, HPi 35, HPW 15 only 6 – 150 mm²!



Dies square-shape

for crimping insulated / noninsulated cord-end-sleeves (page 88 – 91)
 Crimping width: 24 mm (10–120 mm²)
 38 mm (150–240 mm²)

mm ²	art.-no.	mm ²	art.-no.
10	90633	95	90639
16	90634	120	90640
25	90635	150	90641
35	90636	185	90642
50	90637	240	90643
70	90638		

Compression dies for APi 30, HPi 30, APi 35, HPi 35, HPW 15 and HPW 17



Dies for compression tab-connectors, H-shape, copper
for crimping compression tab connectors, H-shape (page 48)

crimping width: 70/70 mm² = 12 mm
95/95 mm² = 5 mm
120/120 mm² = 5 mm

mm ²	art.-no.	mm ²	art.-no.
70/70	99805	120/120	99633
95/95	99782		

Not suitable for APi 35, HPi 35 and HPW 15!



Dies mandrel-shape
for cable lugs out of stainless steel (page 59)

mm ²	for use*	art.-no.	mm ²	for use*	art.-no.
1,5-2,5	VA / Cu	91901	50	VA	91908
4-6	VA / Cu	91902	50	Cu	91909
10	VA / Cu	91903	70	VA	91910
16	VA / Cu	91904	70	Cu	91911
25	VA / Cu	91905	95	VA	91912
35	VA	91906	95	Cu	91913
35	Cu	91907			

* VA / Cu = for stainless steel ropes und copper-conductors
(finewiring and stranded-precompressed)

VA = only for stainless steel ropes

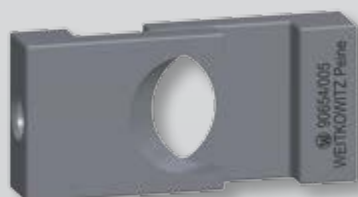
Cu = only for copper-conductors (finewiring and stranded-precompressed)



Dies for round forming
for rounding sector-shaped copper and aluminium conductors
crimping width: 16 mm

mm ² sm*	mm ² se*	art.-no.	mm ² sm*	mm ² se*	art.-no.
10	–	90620	95	120	90626
16	–	90621	120	150	90627
25	35	90622	150	185	90628
35	50	90623	185	240	90629
50	70	90624	240	300	90630
70	95	90625			

* sm = stranded conductors, se = solid conductors



Cutting die

art.-no.: 90654

for coarsewiring Al- and Cu-cables without steel insertion
up to Ø 28 mm.

art.-no.: 90655

for finewiring copper cables up to Ø 28 mm.

These dies are not suited for cutting solid conductors. Please ask
for our special solutions.

Not suitable for APi 35, HPi 35 and HPW 15!

Special crimping tool



for example AKKU-PRESS API 40

with a press capacity of 130 kN developed specially for big cross-sections and for heavy use.

- C-head for quick and easy insertion and removal of cable lugs and connectors
- knowingly robust designed crimping head, for example for special made crimping dies with big crimping width for quick working, also with big cross-sections of cable lugs and connectors
- handy tool, suitable just for small workrooms

technical data:

maximum piston stroke	42 mm
head notch.....	42 mm
press capacity	130 kN
total measurements	95 mm x 430 mm x 310 mm
weight.....	6,5 kg
battery.....	lithium-ionen-technology 14,4V, 3,0Ah
battery charger	220–240V, 50–60 Hz, 7,2-18V
time of loading.....	approx. 50 minutes

Compression dies on request!

art.-no.: 91197



or Hydraulic compression head HPW 40

The press head has a press capacity of 130 kN. This special product is perfectly suitable for serial crimping of big cross sections and strong use. Actuation with electro-pump or foot pump.

technical data:

maximum piston stroke	42 mm
head notch.....	42 mm
operating pressure.....	max. 700 bar
measurement.....	75 x 120 x 270 mm
press capacity	130 kN
weight.....	approx. 4,9 kg

art.-no.: 90603

Compression dies on request!

Mention your processing problem to us.

You give the specifications, we offer you the solution!

Hydraulic compression system HPW 18



Hydraulic compression head for crimping cable lugs and connectors up to 1000 mm². With the help of an adaptor all dies of HPW 15 and 17 (up to 95 mm²) can be used

advantages:

- small weight compared to the range of application
- excellent cost-performance ratio
- hinged head, therefore quick insertion and removal of cable lugs and dies
- extendable system for bending, punching and cutting copper and aluminium bus bars
- quick connection via plug-in coupling, free of leakage

technical data:

hydraulic pressure max. 700 bar
press capacity ca. 200 kN
length 385 mm
weight 7,5 kg

The press head can be uncoupled from the cylinder. Both parts are delivered separately (therefore please order separately by using the article numbers named below). The cylinder is also suitable for being connected to the units for punching, bending and cutting aluminium and copper bus bars.

cylinder HPZ 25..... art.-no.: 90662
press head HPK 18..... art.-no.: 90663



clamping jaws for a trouble free climbing of HPZ 25 into a vice.

art.-no.: 90661



Dies WM-shape

for crimping **WEITKOWITZ** cable lugs and connectors of the **standard-series** (page 11 – 18).
Not suitable for cable lugs from other manufacturers

mm ²	art.-no.	mm ²	art.-no.
120	90670	300	90674
150	90671	400	90675
185	90672	500	90676
240	90673	630	90677



Dies WM-shape

only for processing cable lugs and connectors of the **euro-series** (page 29 - 37).

mm ²	art.-no.	mm ²	art.-no.
120	90695	300	90674
150	90671	400	90675
185	90672	500	90676
240	90673	630	90677

Compression dies for HPW 18



Dies hexagonal-shape

for crimping compression copper cable lugs DIN 46 235 (p. 41 - 46)
compression copper connectors DIN 46 267 part 1 (page 47 - 48)
and compression aluminium and alu/copper cable lugs and
connectors (page 50 to 57)

die code	Cu mm ²	Al mm ²	art.-no.
20	120	–	90681
22	150	95 + 120	90682
25	185	150	90683
28	240	185	90684
32	300	240	90685
34	–	300	90686
38	400	–	90687
38	–	400	90678
42	500	–	90688
44	–	500	90679
44	625	–	90690
52	–	625	90680
52	800	–	90691
58	–	800	90689
58	1000	–	90692



Adapter dies

art.-no.: 90693

With the help of this adaptors all crimping dies of HPW 15 and
HPW 17 up to 95 mm² (page 164 bis 160) can be used with the
compression system HPW 18. (This doesn't apply for cutting dies
and dies for h-shape)



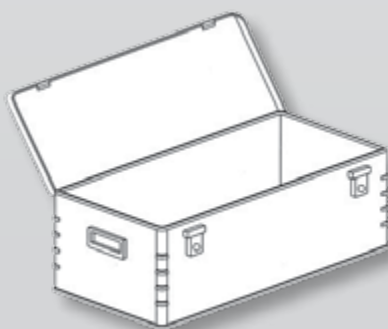
Cutting dies

art.-no.: 90694

Cutting dies for HPK 18, applicable for

- coarsewiring aluminium and copper cables without steel
insertion up to 36 mm Ø
- finewiring copper cables up to Ø 36 mm

These dies are not suited for cutting solid conductors.
Please ask for our special solutions



Transport case

art.-no.: 90799

Stable transport case made of aluminium sheet for keeping the
footpump no. 90401 (page 187) and hydraulic tools. (page 150 ff).

technical data:

measurements inside approx. 350 x 750 x 310 mm
measurements outside approx. 400 x 800 x 330 mm
weight approx. 6 kg

Special tools do we produce to your instructions

for example

Hydraulic compression system with C-head

Special made crimping head with an output force of 200 kN respectively 400 kN for series-production of big cross-sections, for heavy duty developed.

- C-head, ideally for continuous quick working (side loading of connectors)
- knowingly robust designed crimping head, for example for special made crimping dies with big crimping width for quick working, also with big cross-sections of cable lugs and connectors.
- exactly specifications on customer request



or our

Profile cutter with integral hand pump HPS 50

for cutting steel-profile up to 2 mm thickness

You give us your job-profile ...

... **we** offer the solution!

Hydraulic cutting tools



STILO CUT 50

Battery-powered hydraulic hand cable cutter to cut aluminium and copper cables up to Ø 50 mm.

Innovation



Characteristics:

- open cutting head with endless rotation
- light, compact and robust design
- ergonomic design for left- and right-handers
- extremely quick processing due to a three-stage axial piston pump
- automatic pressure limits and monitoring through pressure sensor
- engine shutdown and automatic retract after completed cutting
- manual retract with button
- automatic energy shutdown after 5 minutes
- save of all cuttings and error messages on internal memory
- selections of all cycles and error messages about USB interface
- controlled engine drive to the life extension of gearbox, engine and battery
- multifunctional electronic (sleep-mode; maintenance indication and battery control)
- integrated, intelligent electronics assembly with two multifunctional LED
- precise, repeating exact print alignment by an electronic pressure sensor
- battery charge level indicator directly at the battery
- running supervision of the rest battery load
- integrated service management and software updates about the USB interface
- battery load reaches for 120 cuts

Cutting area:

stranded	flexible
Cu up to max. 1x240 mm ² and/or 4x50 mm ²	Cu up to max. Ø45 mm
Al up to max. 1x500 mm ² and/or 4x70 mm ²	Al up to max. Ø50 mm

delivery contents:

- hydraulic cable cutter STILO CUT 50 incl. battery and charger
- manual
- software
- USB-cable
- transport case

technical data

cutting area	Ø 50 mm
cutting forces	30 kN
RED li-ionen battery	18,0V 1,5 Ah
time of loading	approx. 30 min.
measurements	449 x 124 x 81 mm
weight incl. battery	ca. 2,8 kg

art.-no. description

91105	hydraulic cable cutter STILO CUT 50
91101	replacement battery 18 V, 1.5 Ah

Battery-powered hydraulic cable cutter ASi 45

for cut offline wiring aluminium and copper cables as well as ALU-steel-wire up to 45 mm outside diameter.



advantages:

- extremely quick processing due to a two-stage hydraulic pump
- 360° revolving head with quick opening and closing
- large cutting range, see chart below
- lithium-ionen-battery without memory effect, self-discharges very low
- high capacity due to 3.0 Ah battery
- fastening eye for balance and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service interval
 - mistake announcement at possible disturbances

delivery completely with battery, battery charger, supporting loop for transport and safety, transport plastic case

technical data:

cutting force..... approx. 60 kN
 operating voltage..... 14,4 Volt
 total measurements 95 x 450 x 310 mm
 weight..... 4,9 kg (incl. battery)
 battery charger 220-240V 50-60 Hz 7,2-18V
 time of loading ca. 50 minutes

art.-no.: 91182

additional equipment for ASi 45 on page 182!



Hydraulic cable cutter HSi 45

Hydraulic cable cutter for cutting finewiring aluminium and copper cables, as well as ALU-steel-wire up to 45 mm outside diameter.

advantages:

- extremely quick processing due to a two-stage hydraulic pump
- snap closing head, 270° revolving
- large cutting range, see chart below
- single-hand control in the high-speed pushing forward by an inner handle

delivery with transport plastic case

art.-no.: 91172

technical data:

cutting force..... approx. 60 kN
 length 600 mm
 weight..... 5,7 kg

Application area: ASi 45 and HSi 45		tensile strength N/mm ²	< Ø 9 mm	Ø 11 mm	Ø 13 mm	Ø 15 mm	Ø 17 mm	Ø 19 mm	Ø 21 mm	Ø 23 mm	Ø 25 mm	Ø 27 mm	Ø 29 mm	Ø 31 mm	Ø 33 mm	Ø 35 mm	Ø 37 mm	Ø 39 mm	Ø 41 mm	Ø 43 mm	Ø 45 mm	Ø 47 mm
copper	wires and cables	<410																				
	round stock	<300																				
	round stock	<250																				
aluminium	round stock	<340																				
	wires and cables	<200																				
	round stock	<160																				
al/drey	cables	<340																				
alu/steel	wires	<1800																				
steel	wires	<2200																				
	round stock	<600																				
	round stock	<420																				
	wires (>200 conductors)	<180																				

Battery-powered hydraulic cable cutter ASi 50 F

for cut of fine wiring aluminium and copper cables (without steel insertion) up to 50 mm outside diameter



advantages:

- extremely quick processing due to a two-stage hydraulic pump
- 360° revolving head with quick opening and closing
- large cutting range, see chart below
- lithium-ion-battery without memory effect, self-discharges very low
- high capacity due to 3.0 Ah battery
- fastening eye for balance and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service interval
 - mistake announcement at possible disturbances

delivery completely with battery, battery charger, supporting loop for transport and safety, transport plastic case

additional equipment for ASi 50 F on page 182!

art.-no.: 91185

technical data:

cutting force..... approx. 60 kN
 operating voltage..... 14,4 Volt
 tool measurements..... 95 x 465 x 310 mm
 weight..... 4,9 kg (incl. battery)
 battery charger 220–240V, 50–60 Hz, 7,2–18V
 time of loading..... approx. 50 minutes

Hydraulic hand-operated cable cutter HSi 50 F

for cut of fine wiring aluminium and copper cables (without steel insertion) up to 50 mm outside diameter.



advantages:

- extremely quick processing due to a two-stage hydraulic pump
- snap closing head, 270° revolving
- large cutting range, see chart below
- single-hand control in the high-speed pushing forward by an inner handle

delivery with transport plastic case

art.-no.: 91175

technical data:

cutting force..... approx. 60 kN
 length 610 mm
 weigh 5,13 kg

Application area:		tensile strength N/mm ²	< Ø 20 mm	Ø 25 mm	Ø 30 mm	Ø 35 mm	Ø 40 mm	Ø 45 mm	Ø 50 mm	Ø 55 mm
copper	cable	<410								
aluminium	cable	<210								

Hydraulic cable cutter PS 50 F

for cutting stranded copper - and aluminium conductors (without steel insertion)
up to 50 mm outside diameter



advantages:

- light and compactly construction form
- cutting head with hinged breech block and knife guide
- large cutting range, see chart below
- clean cut

delivery with transport case

technical data:

cutting force ca. 60 kN
hydraulic pressure max. 700 bar
length 315 mm
weight 2,8 kg

art.-no.: 90577

Hydraulic cable cutter PS 65

Hydraulic cable cutter for cutting copper- and aluminium conductors
without steel insertion up to 65 mm outside diameter



advantages:

- easy handling by an open form
- open cutting head with knife guid
- with rugged handhold
- big cutting range, see chart below
- clean cut

delivery with transport plastic case

technical data:

cutting force 65 mm
thrust ca. 44 kN
hydraulic pressure max. 700 bar (70 MPa)
length 330 mm
weight ca. 4,7 kg

art.-no.: 90571

Battery-powered hydraulic cable cutter ASi 65 F

for cut of fine wiring aluminium and copper cables (without steel insertion) up to 65 mm outside diameter



technical data:

cutting force..... ca. 44 kN
operating voltage..... 14,4 Volt
tool measurements..... 140 x 610 x 400 mm
weight..... 8,5 kg
battery charger 220–240V, 50–60 Hz, 7,2–18V
time of loading..... ca. 50 minutes

Application area: ASi 65 F		tensile strength N/mm ²	< Ø 30 mm	Ø 35 mm	Ø 40 mm	Ø 45 mm	Ø 50 mm	Ø 55 mm	Ø 60 mm	Ø 65 mm	Ø 70 mm
copper	cable	<410									
aluminium	cable	<210									

advantages:

- extremely quick processing due to a two-stage hydraulic pump
- 360° revolving head with quick opening and closing
- large cutting range, see chart below
- lithium-ion-battery without memory effect, self-discharges very low
- high capacity due to 3.0 Ah battery
- fastening eye for balance and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service interval
 - mistake announcement at possible disturbances

delivery completely with battery, battery charger, supporting loop for transport and safety, transport plastic case

You find further accessories for the ASi 65 F on page 182!

art.-no.: 91192

Battery-powered hydraulic cable cutter ASi 85

for cut of aluminium and copper cables (without steel insertion) up to 85 mm outside diameter



technical data:

cutting force..... ca. 70 kN
operating voltage..... 14,4 Volt
tool measurements..... 95 x 550 x 310 mm
weight..... 6,1 kg (incl. battery)
battery charger 220–240V, 50–60 Hz, 7,2–18V
time of loading..... ca. 50 minutes

Application area:		tensile strength N/mm ²	< Ø 50 mm	Ø 55 mm	Ø 60 mm	Ø 65 mm	Ø 70 mm	Ø 75 mm	Ø 80 mm	Ø 85 mm	Ø 90 mm
copper	cable	<410									
aluminium	cable	<210									

advantages:

- extremely quick processing due to a two-stage hydraulic pump
- 360° revolving head with quick opening and closing
- large cutting range, see chart below
- lithium-ion-battery without memory effect, self-discharges very low
- high capacity due to 3.0 Ah battery
- fastening eye for balance and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service interval
 - mistake announcement at possible disturbances

delivery completely with battery, battery charger, supporting loop for transport and safety, transport plastic case

You find further accessories for the ASi 85 on page 182!

art.-no.: 97028

Battery-powered hydraulic cable cutter ASi 85 F

for cut of fine wiring aluminium and copper cables (without steel insertion) up to 85 mm outside diameter



technical data:

cutting force..... ca. 70 kN
operating voltage..... 14,4 Volt
tool measurements..... 95 x 550 x 310 mm
weight..... 7,0 kg (incl. battery)
battery charger 220–240V, 50–60 Hz, 7,2–18V
time of loading..... ca. 50 minutes

Application area: ASi 85 F		tensile strength N/mm ²	< Ø 50 mm	Ø 55 mm	Ø 60 mm	Ø 65 mm	Ø 70 mm	Ø 75 mm	Ø 80 mm	Ø 85 mm	Ø 90 mm
copper	cable	<410									
aluminium	cable	<210									

advantages:

- extremely quick processing due to a two-stage hydraulic pump
- 360° revolving head with quick opening and closing
- large cutting range, see chart below
- lithium-ion-battery without memory effect, self-discharges very low
- high capacity due to 3.0 Ah battery
- fastening eye for balance and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service interval
 - mistake announcement at possible disturbances

delivery completely with battery, battery charger, supporting loop for transport and safety, transport plastic case

You find further accessories for the ASi 85 F on page 182!

art.-no.: 91188

Hydraulic hand-operated cutter HSi 85

for cut of aluminium and copper cables (without steel insertion) up to 85 mm outside diameter.



Application area:		tensile strength N/mm ²	< Ø 50 mm	Ø 55 mm	Ø 60 mm	Ø 65 mm	Ø 70 mm	Ø 75 mm	Ø 80 mm	Ø 85 mm	Ø 90 mm
copper	cable	<410									
aluminium	cable	<210									

advantages:

- extremely quick processing due to a two-stage hydraulic pump
- snap closing head, 270° revolving
- large cutting range, see chart below
- single-hand control in the high-speed pushing forward by an inner handle

delivery with transport plastic case

technical data:

cutting force..... approx. 70 kN
length 692 mm
weight..... 7,3 kg

art.-no.: 97053

Battery-powered hydraulic cable cutter ASi 95

for cut of aluminium and copper cables (without steel insertion) up to 95 mm outside diameter



advantages:

cutting force ca. 65 kN
operating voltage 14,4 Volt
tool measurements 130 x 690 x 405 mm
weight ca. 11,7 kg (incl. battery)
battery charger 220-240 V, 50-60 Hz, 7,2-18 V
time of loading ca. 50 minutes

advantages:

- extremely quick processing due to a two-stage hydraulic pump
- 360° revolving head with quick opening and closing
- large cutting range, see chart below
- lithium-ion-battery without memory effect, self-discharges very low
- high capacity due to 3.0 Ah battery
- fastening eye for balance and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service interval
 - mistake announcement at possible disturbances

delivery completely with battery, battery charger, supporting loop for transport and safety, transport plastic case

You find further accessories for the ASi 95 on page 182!

art.-no.: 91194

Hydraulic cable cutter PS 95

for cutting copper- and aluminium conductors without steel insertion up to 95 mm outside diameter



advantages:

- easy handling by an open form
- open cutting head with knife guid
- with rugged handhold
- big cutting range, see chart below
- clean cut

delivery with transport plastic case

technical data:

cutting force ca. 65 kN
hydraulic pressure max. 700 bar
length 465 mm
weight 6,9 kg

art.-no.: 90574

Application area:		tensile strength N/mm ²	< Ø 50 mm	Ø 55 mm	Ø 60 mm	Ø 65 mm	Ø 70 mm	Ø 75 mm	Ø 80 mm	Ø 85 mm	Ø 90 mm	Ø 95 mm	Ø 100 mm
copper	cable	<410											
aluminium	cable	<210											

Hydraulic cable cutter HKW 700

for cutting copper- and aluminium conductors **even with steel insertion** up to 70 mm outside diameter (e.g. coarsewiring copper cables up to about 4x240 mm²)



advantages:

- extremely large cutting force
- hinged head
- extremely stable construction
- with handle

technical data:

press capacity ca. 150 kN
 hydraulic pressure: max. 700 bar
 length 430 mm
 weight 8,5 kg

art.-no.: 90578

Hydraulic cable cutter HKW 1000

for cutting stranded copper- and aluminium conductors without steel insertion up to 95 mm outside diameter or coarsewiring copper cables up to about 3x185 mm²



advantages:

- head can be foulded
- big cutting range
- clean cut

technical data:

press capacity ca. 80 kN
 hydraulic pressure max. 700 bar
 length 530 mm
 weight 6,8 kg

art.-no.: 90590

like above but stronger version for cutting copper and aluminium conductors, with or without steel jacket up to 95 mm outside diameter. Output force like above.

Attention:

Aluminium conductors with steel-core, steel cables or cables with steel-core cannot be cut.

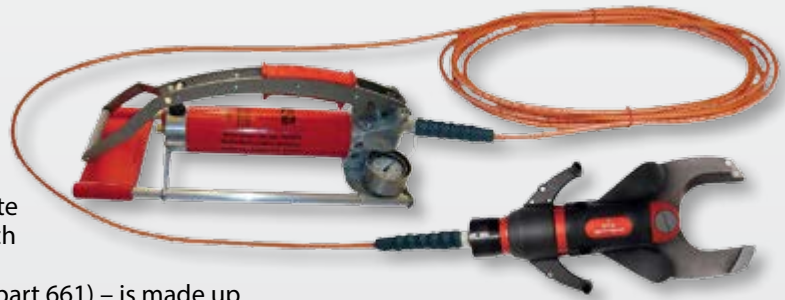
art.-no.: 90591

Safety cutting system SSA 95

Description of the safety cutting system:

The safety cutting system is a device for safe cable cutting when the cable may be live and the absence of tension cannot be checked with complete safety. Such a check is particularly difficult in metallic screened cables. Therefore, before proceeding with any cutting operations, it is essential to take adequate measure to guarantee the operator's safety. One such measure is the use of an insulated cable cutter.

This device – according to DIN EN 50340 (VDE 0682 part 661) – is made up essentially of a hydraulic pump and a cutting head to which a high pressure non-metallic hose of length 10.5 m is connected by a steady fitting.



Field of application::

According to § 6.2 of the safety regulations "Electric Systems and Materials" (BGV A 2, ex VGB 4) and § 6.2 of EN 50 110 (VDE 0105 part 100), before carrying out any work on grounding systems for voltages up to 30kV the absence of tension must be guaranteed for the entire duration of the operations. As it is not always possible to make sure there is no tension at the point where we must operate, especially for ground cables, it is essential to avoid the problem by cutting the cable with a special insulated cable cutter and at the same time carrying out a check at the point of interruption, e.g. by checking at the main switchboard.

Potential balance connection - earthing:

For safety cutting system the DIN EN 50340 standard requires grounding the cutter head and establishing an equipotential connection between the pump and the ground. These regulations must however be implemented while respecting directives currently applicable in single countries. According to the BGI 845-ZH1/ 437 directives, for instance in Germany the cutting head cannot be individually grounded because the networks themselves are already grounded. There must be however an equipotential connection between the pump and the ground.

Maintenance:

To guarantee correct operation, constant availability and long life of the safety cutting system, WEITKOWITZ suggests maintenance intervals of 2 years and the work to be done only by authorized technicians. If a cut must be made under tension, it is however always necessary to carry out a check on the entire system.

In according to DIN VDE 0105 part 100, clause 4.6 and VGB 4, safety cutting system must be checked by a qualified expert in measured time periods. According to GB regulations, the maintenance intervals must be defined and described by the manufacturer in the instructions for use.

Electric arc at the short circuit test:



picture 1: 200 ms



picture 2: 800 ms



picture 3: 1.200 ms



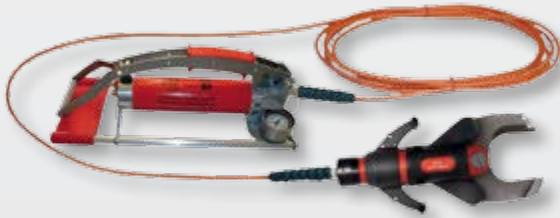
picture 4: 1.600 ms

Pictures:

The pictures show the development in the course of a short circuit test and demonstrate considerably the danger for person at work under tension. Damage of persons can be avoided only by using the safety cutting system.

Hydraulic safety cutting system SSA 95

according to DIN EN 50340 to safe cutting of aluminium and copper cables without steel insertion up to 95 mm outside diameter.



Application area:		tensile strength N/mm ²	< Ø 50 mm	Ø 55 mm	Ø 60 mm	Ø 65 mm	Ø 70 mm	Ø 75 mm	Ø 80 mm	Ø 85 mm	Ø 90 mm	Ø 95 mm	Ø 100 mm
copper	cable	<410											
aluminium	cable	<210											

**We are able to offer you also a 60 kV variant.
Please send us your enquiry.**

the system contains::

- two stage hydraulic pump
- hydraulic cable cutter PS 95
- high pressure hose 10.5 m
- earthing bolt for SSA 95
- earthing cable for SSA 95
- transport case from plastic

advantages:

- checked security with GS sign
- extremely quick processing due to a 2-stage foot operated pump
- low weight by the use of light metal alloys and materials which are free of corrosion
- open cutting head with knife guide
- with rugged handhold
- big cutting range, see chart beside
- clean cut

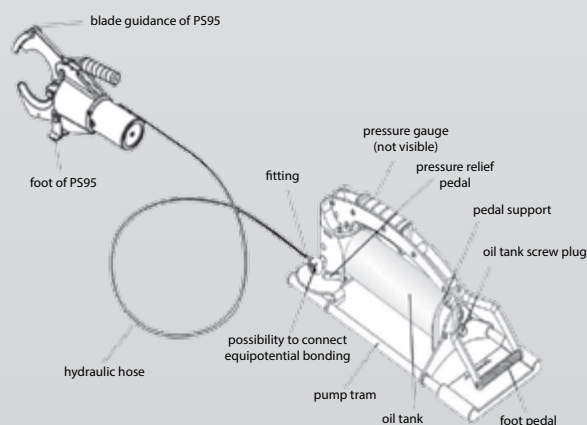
delivery include transport case for the transport all components

technical data:

cutting capacity approx. 65 kN
 thrust.....approx.110 kN
 operating pressure.....625 bar
 measures Trolley 520 x 640 x 365 mm
 weight..... 25,5 kg
 operating temperature -20°C – +40°C

art.-no.: 90570

Configuration of the safety cutting system:



Accessories to hydraulic battery-powered tools



Replacement battery - Li-Ion 14,4 V, 3,0 Ah
weight..... 0,56 kg
art.-no...... **91124**



Replacement battery - Li-Ion
for Stilo 1 and Stilo Cut 50 18 V, 1,5 Ah
weight..... 0,41 kg
art.-no...... **91101**



battery-adaptor for mains-operation 230V AC
input..... 220–240 V, 50–60 Hz output..... 14,4 V
cable..... EU-connector with supply line 5 m protection
device: short-circuit-protection and temperature protection
weight..... 0,80 kg
art.-no...... **91126**



battery charger 220–240 V 50–60 Hz
voltage range..... 7,2–18 V
time of loading ca. 50 minutes
weight..... 0,55 kg
art.-no...... **91127**



car-battery charger, connectable in cigarette lighter 12V
voltage range..... 7,2 – 18 V
time of loading ca. 50 minutes
weight..... 0,58 kg
art.-no...... **91128**



carrying strap for all battery tools from high quality nylon material
art.-no...... **91129**



Hydraulic tools

Compact hydraulic pump with battery CP700EC art.-no.: 91422



characteristics:

- light, compact and robust structure
- double piston technology for rapid high pressure feed
 - capacity within the range of low pressures < 100 bar: 1.15 lit./min.
 - capacity within the range of pressures up to 700 bar: 0.15 lit./min.
 - operation pressure: 700 bar (70 MPa)
 - power: 200 W
 - battery voltage: 18 V DC
 - battery capacity: 3.0 Ah
 - operating temperature: -20° C / +55° C
- quick tool return by high return conveyor volumetric
- pressure supervision with an electronic pressure sensor
- high performance battery (lithium-ion - without memory effect)
- start or drive up and return at the remote control
- state of charge at the battery available
- with remote control 1.5 m
- switch on at the device and with the remote control
- LED-display (green) for correct processing on the device and remote control
- LED-display for battery and disturbance at the device
- automatically energy saving mode after 5 minutes
- save of all crimps and error messages on internal memory (approx. 100.000 cycles)
- read out of all cycles and error messages about USB
- no uncompleted crimping cycles by running supervision of the rest battery load
- control by means of microcontroller
- controlled engine drive for the life rise of gear, engine and battery
- automatic and manual retract, retract stop function
- immediate cutting opening after cut and letting go the button (automatic cutting detection)
- integrated service-management
- software update about USB connection
- temperature monitor
- you can carry the pump with a carrying strap
- you can fasten the remote control at the device, at a belt or carrying strap with clamping bracket or magnet on an even surface.

delivery completely with remote control 1.5 m, flexible high pressure hose 1.5 m, USB-cable, Li-Ionen battery 18V 3.0 Ah, battery-charger device, software (CD), shoulder strap, carry bag with additional pockets.

technical data:

flow volumes in low pressure range:..... 1,15 l/min
 flow volumes in high pressure range:..... 0,15 l/min
 operating pressure: max. 700 bar (70 MPa)
 electrical power: 200 W
 battery voltage: 18 V DC
 battery capacity:..... 3,0 Ah
 battery capacity:..... – 20° C bis + 55° C
 operating temperature 190 x 290 x 205 mm
 weight.....ca. 4,6 kg (incl. battery)

Hydraulic pumps and accessories



Compact hydraulic pump with battery CP700 art.-no.: 91423

design like CP700EC, but with additional integrated display and following additional functions:

- **big display** for the supervision, diagnosis and attitudes:
 - display of process pressure and set point
 - error message (temperature, battery, crimping defect, own diagnostics)
 - service data
 - device parameters
- input and output element about drive (rotary knob)
- preinstalled standard program for cutting or crimping with:
 - automatic or manual return flow
 - hold time setting
 - instep function by means of an automatic adjustment
 - return stop function
 - immediate cutting opening after cut and letting go the button (automatic cutting detection)
- storable operator program

technical data:

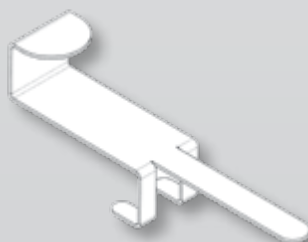
measurements.....190 x 290 x 205 mm
 weight.....ca. 4,6 kg (incl. battery)



replacement battery for CP700EC and CP700 18V DC 3,0 Ah art.-no.: 91424



battery adapter for mains-operation CP700EC, CP700, Stilo 1 and Stilo Cut 50, 230V - 18V art.-no.: 91426



ladder fixing for hydraulic battery pump CP700EC and CP700 art.-no.: 91425

Hydraulic pumps and accessories



illustration = art.-no.: 90404

Electro-hydraulic 3-cylinder-radial-piston-pump with transport cart

our electro-hydraulic pumps are delivered completely with an electrical control, pressure control valve, magnet valve, oil sight glass and 3 meter high-pressure hose. The operating pressure is put normally on 700 bar. The control is effected with a foot pedal. The pedal is equipped with a high-quality 3-point-safety wiring. All our pumps are delivered without cutting and crimping tool.

The following variants are deliverable:

- operating voltage/pump delivery volume 230V 50Hz / 0.64 l/min. 3x400V 50Hz / 0.82 l/min.
- with transport cart or with rack
- foot pedal with one switch = version without positioning
- foot pedal with two switches = version with positioning

The version with positioning should be used at the tools to processing of copper and aluminium bus bars and the hydraulic puncher HLW 138 (catalogue pages 190-199). The positioning guaranteed a save and point exactly work. We recommend to use the pump (art.-no. 91421) if you buy our hydraulic bus conductor work system BLS 120 (page 195). This tool combination ensures you a high precision.

Further components and special solutions
are available on request.

transport cart, with positioning, nominal capacity: 0.75 kW,
voltage 3 x 400V 50Hz, delivery rate 0.82 l/min.
weight:.....30,5 kg
art.-no.: 90404

transport cart, nominal capacity: 0.75 kW,
voltage 3 x 400V 50Hz, delivery rate 0.82 l/min.
weight:..... 28 kg
art.-no.: 90407

transport cart, with positioning, nominal capacity: 0.75 kW,
voltage 230V 50Hz, delivery rate 0.64 l/min.
weight:..... 36 kg
art.-no.: 90413

transport cart, nominal capacity: 0.75 kW,
voltage 230V 50Hz, delivery rate 0.64 l/min.
weight:.....32,5 kg
art.-no.: 90418



illustration = art.-no.: 90418

Hydraulic pumps and accessories



illustration = art.-no.: 90415

Electro-hydraulic 3-cylinderradial-piston-pump with rack

rack, with positioning, nominal capacity: 0.75 kW,
voltage 3 x 400V 50Hz, delivery rate 0.82 l/min.
weight.....26 kg
art.-no.: 99962

rack, nominal capacity: 0.75 kW,
voltage 3 x 400V 50Hz, delivery rate 0.82 l/min.
weight.....23,5 kg
art.-no.: 90406

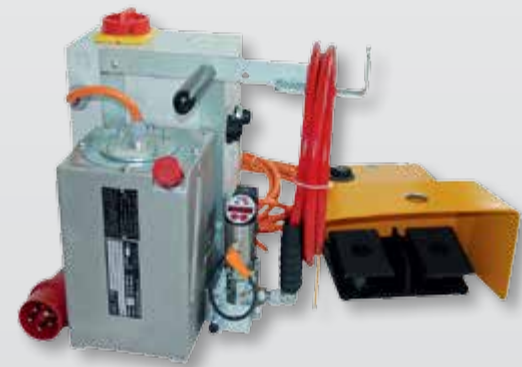


illustration = art.-no.: 91421

rack, with positioning, nominal capacity: 0.75 kW,
voltage 230V 50Hz, delivery rate 0.64 l/min.
weight.....30 kg
art.-no.: 90416

rack, nominal capacity: 0.75 kW,
voltage 230V 50Hz, delivery rate 0.64 l/min.
weight.....26,5 kg
art.-no.: 90415

rack, with positioning, nominal capacity: 0.75 kW, with automatically
pressure switching-off and connection for end switch (for BLS120),
voltage 3 x 400V 50Hz, delivery rate 0.82 l/min.
weight.....26 kg
art.-no.: 91421



Two stage hydraulic foot pump FPi70 art.-no.: 91401

hydraulic pressure 700 bar, with safety valve
and **3 m high pressure hose**

measurements.....210 mm x 570 mm x 230 mm
weight.....9,5 kg

delivery with transport case out of steel

Hydraulic pumps and accessories



High pressure hose with steel mesh inlay, buckling protector and coupling (not extension hose!)

length: 3 m..... **art.-no.: 90409**
length: 5 m..... **art.-no.: 99955**
length: 10 m **art.-no.: 99956**

extension tube available on request



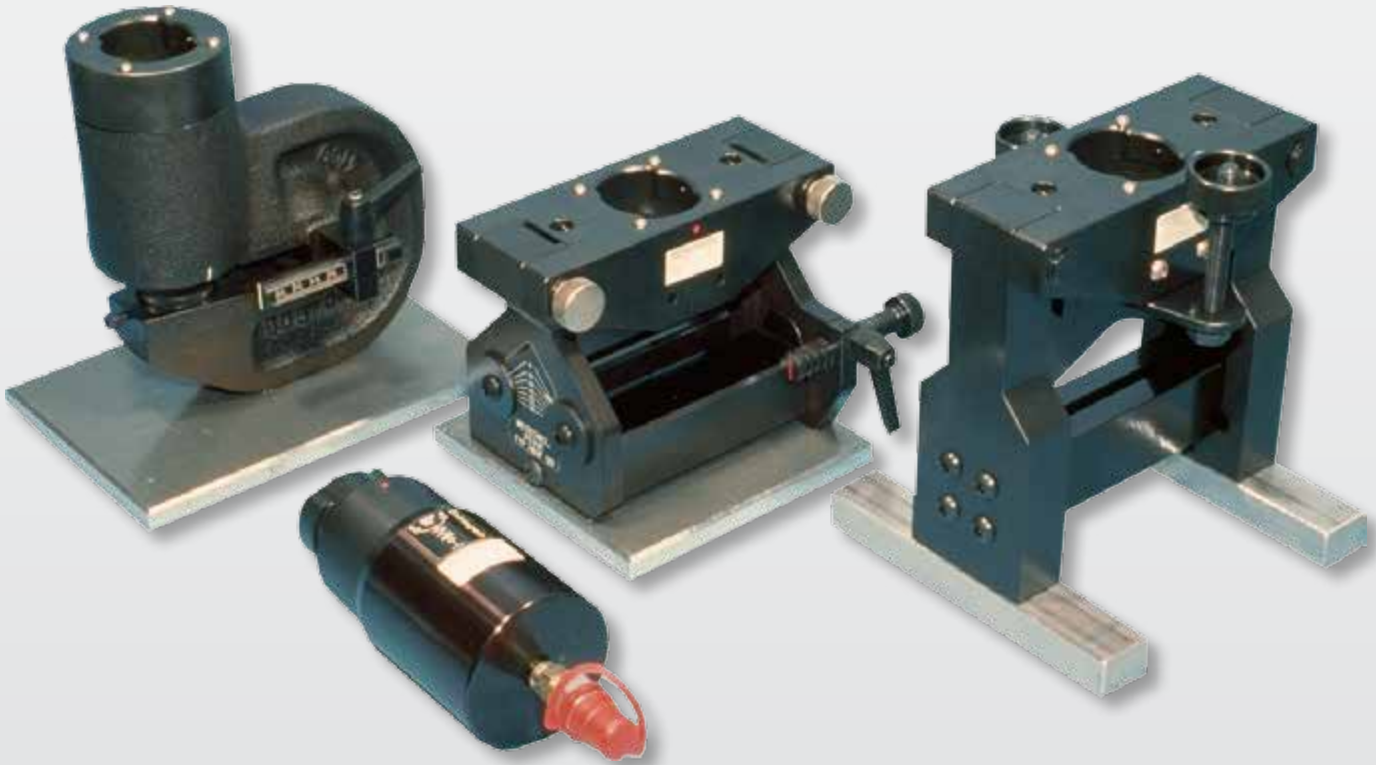
Replacement of oil: Please use this special oil only.

hydraulic oil, 1-litre-tin **art.-no.: 90593**
hydraulic oil, 5-litre-canister **art.-no.: 90594**



Hydraulic punching, bending and cutting tools for bus bars

Hydraulic working system 200 kN



Hydraulic working system, developed by WEITKOWITZ and protected with registered design. It allows the crimping of cable lugs up to 1000 mm² as well as the punching, bending and cutting of copper and aluminium bus bars. Basic item is a cylinder with a hydraulic pressure of 700 bar and a press capacity of 200 kN. This cylinder can be easily connected to:

- a) Press head with changeable dies for cable lugs up to 1000 mm².
- b) Punching unit for punching holes up to 22 mm diameter into solid copper and aluminium bus bars with max. thickness of 12 mm. The immersion depth is 60 mm at the middle of the hole. Therefore bus bars with 120 mm width can be punched concentrically. Two millimetre long, precise depth stops and a tip at the punching pins enable a most precisely punching and a high repeat accuracy.

- c) Bending unit for bending copper and aluminium bus bars up to 120 mm width and 12 mm thickness. The tight bending radius enables a space-saving bending. The currently achieved bending angle can be read of a scale fixed at the tool.
- d) Cutting unit for cutting copper and aluminium bus bars up to 120 mm width and 12 mm thickness.

All components are delivered separately. Since the cylinder is needed only once our customers can assemble a flexible system with an excellent cost-performance ratio for crimping cable lugs as well as bending, cutting and punching bus bars.

Special design on request!

Hydraulic punching unit HLW 120



punching unit HLW 120
for long holes
 are available on request

Hydraulic punching unit for punching holes into copper or aluminium bus bars up to 12 mm thickness. The maximum hole depth is 60 mm. Therefore bus bars with 120 mm width can be punched concentrically.

advantages:

- with tapped holes for screwing on a workbench
- for nearly all existing bus bars
- two accurate to a millimetre adjustable depth stops, exact centre marks and punching pins with tip enable a precise punching with a high repeat accuracy

The cylinder can be uncoupled from the punching unit. Both parts are sold separately and therefore must be ordered separately. The cylinder can also be connected to the press head HPK 18, to the bending unit HBW 120 and the cutting unit HSW 120. As a driving unit we recommend our two stage hydraulic pump no. 91401 or our electrohydraulic 3-cylinder-radial-piston-pump with positioning no. 90404.

technical data:

hydraulic pressure max. 700 bar
 press capacity ca. 200 kN
 length including cylinder 410 mm
 weight including cylinder 12 kg

cylinder HPZ 25 art.-no.: 90662
 punching unit HLW 120 art.-no.: 90560

Punching pins with matrix for hydraulic punching unit HLW 120, only for punching copper or aluminium bus bars. pin with tip, surface: coated



hole diameter in mm	max. thickness of bus bars from - to (mm)	art.-no
5,5	2 – 6	90561
6,6	4 – 8	90562
9	5 – 10	90563
10,5	5 – 12	99988
11	5 – 12	90564
13,5	5 – 12	90565
14	5 – 12	99936
15,5	5 – 12	90566
17,5	5 – 12	90567
18	5 – 12	99940
21,5	5 – 12	90568

Hydraulic bending unit HBW 120



Hydraulic bending unit for bending solid copper or aluminium bus bars up to 120 mm width and 12 mm thickness.

advantages:

- with tapped holes for screwing on a workbench
- with two lateral parallel-stops for exact angular positioning of bus bars
- with scale for reading off the current bending angle

The cylinder can be uncoupled from the bending unit. Both parts are sold separately and therefore must be ordered separately. The cylinder can also be connected to the press head HPK 18, to the punching unit HLW 120 and to the cutting unit HSW 120. As a driving unit we recommend our two stage hydraulic pump no. 91401 or our electrohydraulic 3-cylinder-radial-piston-pump with positioning no. 90404.

cylinder HPZ 25..... art.-no.: 90662
hydraulic bending unit HBW 120 art.-no.: 90556

technical data:

hydraulic pressure..... max. 700 bar
press capacity ca. 200 kN
length including cylinder 345 mm
weight including cylinder 13,7 kg



Dimensional limit for bending steps with the bending unit HBW 120:
basis height at least 66 mm

total height = basis height + thickness of material

bending angle: 8 mm

Hydraulic cutting unit HSW 120



Hydraulic cutting unit for cutting solid copper and aluminum bus bars up to 120 mm width and 12 mm thickness.

advantages:

- great cutting capacity
- level and precise cut

The cylinder can be uncoupled from the cutting unit. Both parts are sold separately and therefore must be ordered separately. The cylinder can also be connected to the press head HPK 18, to the punching unit HLW 120 and to the bending unit HBW 120.

technical data:

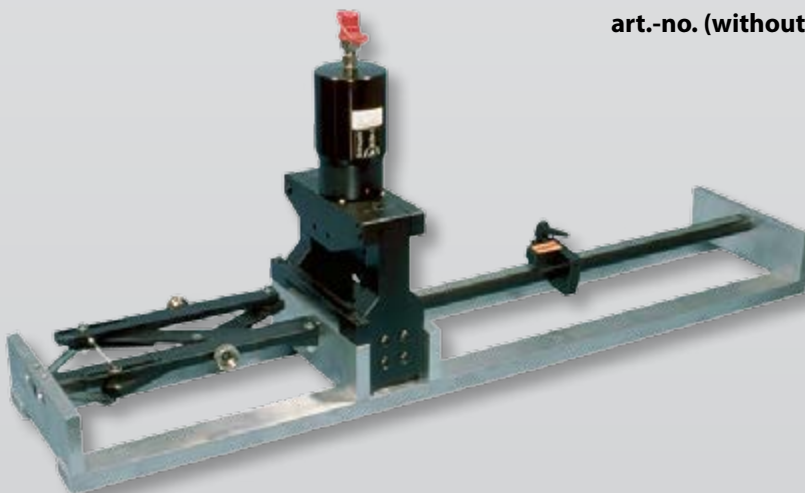
hydraulic pressure..... max. 700 bar
press capacity..... ca. 200 kN
length including Zylinder..... 400 mm
weight including Zylinder:..... 13,1 kg

cylinder HPZ 25..... art.-no.: 90662
cutting unit HSW 120..... art.-no.: 90558

Work bench for HSW 120

Work bench for precise, right angled cutting of copper and aluminium bus bars up to 120 mm width, with scale for segments up to 500 mm length, total length: 925 mm.

art.-no. (without HSW 120): 90559



Hydraulic punching unit HLF 100



Hydraulic punching unit for punching holes into solid and flexible bus bars up to 100 mm width and 12 mm thickness, with positioning table and hole-templates for DIN-master gauge for holes.

advantages:

- Two additionally assembled clamping cylinders automatically press the flexible bus bars together before the process of cutting intrinsically starts. This enables punching precise holes free of burr.
- The positioning table combined with the hole template guarantee an exact positioning of bus bars and therefore an absolute repeat accuracy of punchings.

The cylinder can be uncoupled from the punching unit. Both parts are sold separately and therefore must be ordered separately. The cylinder can also be connected to the bending unit HBW 120, to the cutting unit HSW 120 (only suitable for solid bus bars). As a driving unit we recommend our two stage hydraulic pump no. 90401 or our electro-hydraulic 3-cylinder-radial-piston-pump with positioning no. 91404.

technical data:

hydraulic pressure.....max. 700 bar
press capacityapprox. 200 kN

cylinder HPZ 25.....art.-no.: 90662
hydraulic punching unit HLF 100art.-no.: 90581

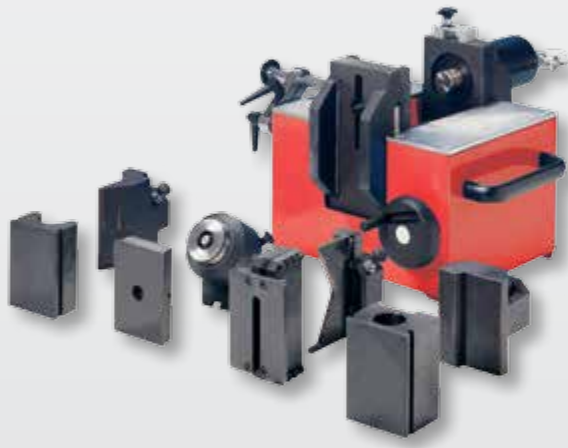


Punching pins with matrix

for hydraulic punching unit HLF 100, only for punching copper- or aluminium bus bars

hole-Ø in mm	max. thickness of bus bars from - to	art.-no.
5,5	3 – 5	90579
6,6	3 – 6	90582
9	3 – 8	90583
11	3 – 10	90584
13,5	3 – 12	90585
15,5	3 – 12	90586
17,5	3 – 12	90587

Hydraulic bus conductor work system BLS 120



Hydraulic bus conductor work system for bending, punching, cutting and cranking of copper and aluminium bus bars up to 120 mm width and 12 mm thickness

advantages:

- robust and compact design, suitable for work in the factory and the building sit
- universal tool system: basic device (without accessories)
- suitable for every application case
- around different working tools expandable
- the electrical proximity switch guarantees 100 % bending repeatability
- the work bench adjusts in height with a side stop to make holes without tracing and measuring
- exact crank around the material thickness in one single work step possible
- an easy and quick tool change
- clean and burr-free cut by a special cutter blade geometry
- punching and cutting also of laminated bus bars and earth band possible

The prime mover in our electro-hydraulic-3-cylinder-radial-piston-pump with an external pump stop (page 187).

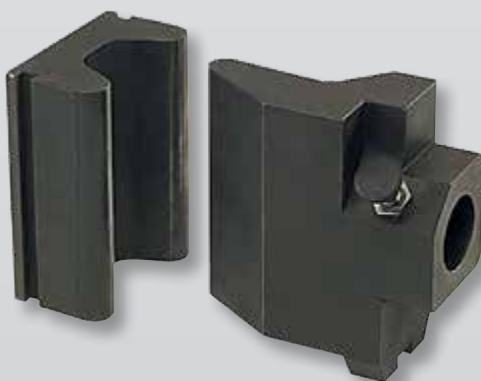
technical data:

press capacity max. 185 kN
hydraulic pressure max. 700 bar
measurements ca. 519 x 343 x 481 mm
weight 55 kg

basic device (without accessories)

art.-no. **91201**

Accessories for hydraulic bus conductor work system BLS 120



bending die

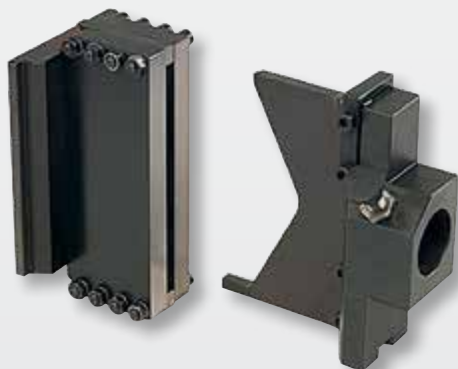
bending punch

Bending tool for copper and aluminium bus bars up to max. 120 x 12 mm

	bending radius	bending angle	weight	art.-no.
bending punch*	R5	max. 110°	4 kg	91211
bending punch*	R8	max. 110°	4,1 kg	91212
bending punch*	R10	max. 110°	4,4 kg	91213
bending punch*	R20	max. 110°	5 kg	91214
back bending punch			3,8 kg	91215
bending die, suitable for stamps R5 to R20			3,3 kg	91210

* bending die (art.-no. 91210) is necessary

Accessories for hydraulic bus conductor work system BLS 120



Cutting tool

for solid copper and aluminium bus bars up to max. 120 x 12 mm

	weight	art.-no.
cutting tool complete	5,8 kg	91220



Cutting tool

for laminated copper and aluminium bus bars up to max. 120 x 12 mm

	weight	art.-no.
cutting tool complete	9 kg	91225



Cranking tool

for solid copper and aluminium bus bars up to max. 120 x 12 mm

	weight	art.-no.
Cranking tool complete with plates	11 kg	91230

Accessories for hydraulic bus conductor work system BLS 120



Punching tool

for punching solid and laminated copper- and aluminium bus bars
up to max. 120 x 12 mm

- for round holes of $\varnothing$ 6.5 up to 21 mm
- for long holes of $\varnothing$ 6.5 x 13 up to 17 x 20 mm

	weight	art.-no.
punching tool complete (without stamps and matrices)	4,3 kg	91235

Round hole puncher for above-named punching tool

for punching solid and laminated copper- and aluminium bus bars
up to max. 120 x 12 mm



	hole $\varnothing$ in (mm)	art.-no.
round hole puncher, include matrices and blank holder	6,5	91241
	7,0	91243
	8,5	91245
	9	91247
	10	91249
	10,5	91251
	11	91253
	12	91255
	12,5	91257
	13	91259
	14	91261
	14,5	91263
	15	91265
	17	91267
	18	91269
	19	91271
	21	91273

Long hole puncher for above-named punching tool

for solid and laminated copper- and aluminum bus bars up to
max. 12 mm thickness



	hole $\varnothing$ in (mm)	art.-no.
long hole puncher include matrices and blank holder	6,5 x 13	91277
	6,5 x 21	91279
	8 x 20	91281
	8,5 x 16	91283
	9 x 20	91285
	10,5 x 13	91287
	11 x 20	91289
	13 x 17	91291
	13 x 20	91293
	14 x 20	91295
	17 x 20	91297

Hydraulic puncher HLW 138



Hydraulic puncher HLW 138 for punching holes into sheet steel. Working cylinder complete with tie screw 19 mm and 9.5 mm and a distance bush for the punchers listed below.

Technical data:

hydraulic pressure..... max. 700 bar
weight without puncher..... 3,6 kg

art.-no.: 90500

As a driving unit, we recommend our two stage hydraulic pump FPi70 No. 91401, or an electro-hydraulic 3-cylinder radial piston pump with positioning for accurate work.



Spare tie crew

spare tie crew 9.5 mm

art.-no.: 90550

spare tie crew 19 mm

art.-no.: 90551



Ball-bearing screws for hand operation 9.5 x 50 mm

art.-no.: 90553

Ball-bearing screws for hand operation 19 x 55 mm

art.-no.: 90554

Ball-bearing screws for hand operation 19 x 75 mm

art.-no.: 90555



Anti-abrasion paste

This special paste prevents corrosion and jamming and therefore the premature abrasion of heavy-duty parts. Please apply thinly to all puncher screws with a brush.

tube (7 g)

art.-no.: 90548

can (120 g)

art.-no.: 90549

Punchers

Round punchers



hole-Ø mm	PG- size	metric size	rough drill Ø mm	max. thickness of sheet steel St 37 mm	art.-no.
12,7	PG 7	M 12	11	2	90502
15,2	PG 9	–	11	2	90504
16,2	–	M 16	11	2	90505
18,6	PG 11	–	11	2	90506
20,4	PG 13	M 20	11	2	90508
22,5	PG 16	–	11	2	90510
25,4	–	M 25	11	2	90511
28,3	PG 21	–	11	2	90512
32,5	–	M 32	20,4	3	90513
37	PG 29	–	20,4	3	90514
40,5	–	M 40	20,4	3	90515
47	PG 36	–	20,4	3	90516
50,5	–	M 50	20,4	3	90517
54	PG 42	–	20,4	3	90518
60	PG 48	–	20,4	3	90520
63,5	–	M 63	20,4	3	90521



Square punchers

hole-Ø mm	rough drill Ø mm	max. thickness of sheet steel St 37 mm	art.-no.
46 x 46	28,3	3	90522
50,8 x 50,8	28,3	3	90524
68 x 68	28,3	3	90528
92 x 92	28,3	3	90530



Rectangular punchers

hole-Ø mm	rough drill Ø mm	max. thickness of sheet steel St 37 mm	art.-no.
22 x 30	16,2	2	90534
22 x 42	16,2	2	90536
31,7 x 34,9	16,2	2	90538
68 x 138	30,5	2,5	90540

The standard punchers listed above are not suitable for punching high grade steel (V2A) or similar materials!
 Punchers for high grade steel and special measurements on request!

Innovative earthing terminals with DB and ÖBB certification



press technique earthing



earthing terminals at
base elements



earthing terminals
WEB 1 and WEB 12



WEB 19 with
distance socket



WEB 12 with flat bar
underground construction



V4A 1.4571 stop rail



earthing terminals
with CuStAl 70 mm²
resp. steel rope 95 mm²



WEB 12 with O-type ring
at a tunnel wall



WEB 0 and cable lug
after salt spray test



construction vehicle
earthing

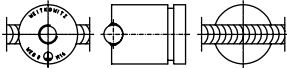
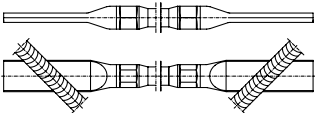
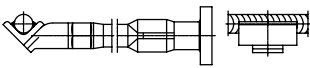
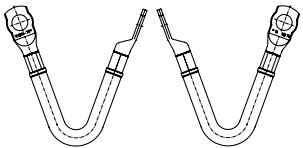
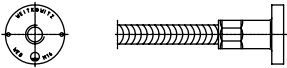
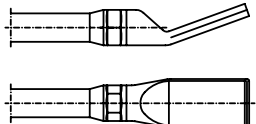
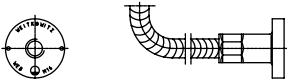
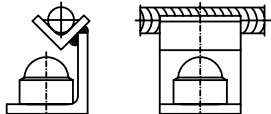
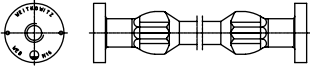
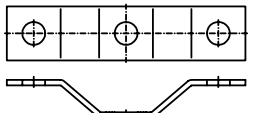
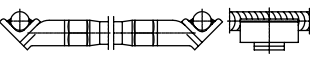
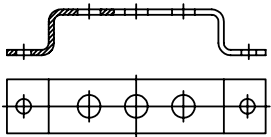
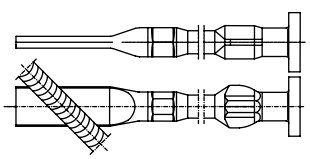


high flexible
cable connection



screwed track connector
4 Ebs 15.13.51

Overview

designation	drawing	designation	drawing
WEB 0 connection sleeve out stainless steel V2A Ø 50 mm		WEB 13 / 14 2 cable lugs out of steel with long flange and crimped power cable NYY-O 95 mm² / 70 mm², alternatively PVC-stranded conductor H07V-K 95 mm² / 70 mm²	
WEB 1/8 connection sleeve out of Cu*, tin plated and angle-connection out of steel with crimped power cable NYY-O 95 mm² / 70 mm², alternatively PVC-stranded conductor H07V-K 95 mm² / 70 mm²		Cu**-earthing connector: 4 EBS 15.03.17 2 compression cable lugs according to DIN 46235 with crimped power NYY-O 50 mm² / 70 mm² / 95 mm²	
WEB 2 connection sleeve out of Cu*, tin plated, with crimped iron-rod Ø 16 mm		WEB 15 cable lug out of steel with long flange and crimped power cable NYY-O 50 mm²	
WEB 3 connection sleeve out of Cu*, tin plated, with crimped iron-rod Ø 16 mm.		WEB 16 connection sleeve out of stainless steel V2A Ø 50 mm	
WEB 6/9 2 connection sleeves out of Cu*, tin plated, with crimped power cable NYY-O 95 mm² / 70 mm², alternatively PVC-stranded conductor H07V-K 95 mm² / 70 mm²		bus bar out of Cu*, tin plated	
WEB 7/10 2 angle-connection out of Cu*, tin plated, with crimped power cable NYY-O 95 mm² / 70 mm², alternatively PVC-stranded conductor H07V-K 95 mm² / 70 mm²		earthing bus (potential equalization) out of Cu*, tin plated	
WEB 11/12 connection sleeve out of Cu*, tin plated and cable lug out of steel with long flange and crimped power cable NYY-O 95 mm² / 70 mm², alternatively PVC-stranded conductor H07V-K 95 mm² / 70 mm²			

* Cu according to DIN EN 13601

** Cu according to DIN EN 13000



Innovative earthing terminals with EBA and DB certification.

Ask for our special catalogue in print-version or as pdf-file

Crimping instructions for standard-series

WM-crimping

Crimping instructions
Minimum necessary crimping quantity of **WEITKOWITZ** cable lugs and connectors for standard-series.

cross section in mm	pressing quantity x width	Weitkowitz type classifications and product numbers																				
		PW 6/50 90180	PW 6/70 90181	PW 10/120 90185	MP 13 90200	MP 1 90300	Stilo 1 91100	HPI 10 91111	AP 10 91120	HPW 10 90653	MPI 20 90250	HPI 20 91132	API 20 91142	HPW 20 90656	HPI 30 91152	API 30 91162	HPW 17 90651	MP 2 90260	HPI 35 91157	API 35 91167	HPW 15 90602	HPK 18 90663
6	1 x 5 mm																					
10	1 x 5 mm																					
	1 x 7 mm																					
16	1 x 5 mm																					
	1 x 7 mm																					
25	2 x 5 mm																					
	1 x 9 mm																					
	1 x 10 mm																					
35	2 x 5 mm																					
	1 x 10 mm																					
	1 x 12 mm																					
50	2 x 5 mm																					
	1 x 12 mm																					
70	2 x 5 mm																					
	1 x 12 mm																					
95	2 x 5 mm																					
	1 x 12 mm																					
120	3 x 5 mm																					
	2 x 7 mm																					
	1 x 12 mm																					
150	3 x 5 mm																					
	2 x 7 mm																					
185	3 x 5 mm																					
	2 x 7 mm																					
240	3 x 5 mm																					
	3 x 7 mm																					
	2 x 13 mm																					
300	4 x 5 mm																					
	3 x 7 mm																					
	2 x 13 mm																					
400	4 x 7 mm																					
	2 x 13 mm																					
500	3 x 13 mm																					
630	3 x 13 mm																					

Attention: Take care of the Assembly of cable lugs and connectors (page 193) when processing.
Connectors: Minimum quantity of pressing for each side.

Crimping instructions for DIN 46235-series and DIN 46267-series

Hexagonal-shape-crimping

Crimping instructions
 Minimum necessary crimping quantity of **WEITKOWITZ** cable lugs and connectors
 for DIN 46235-series and DIN 46267-series.

			Weitkowitz type classifications and product numbers																						
cross section in mm	die code	pressing quantity x width	DW 6/50 90178	DW 6/70 90182	DW 10/120 90189	MP 13 90200	MP 1 90300	Stilo 1 91100	HPI 10 91111	AP 10 91120	HPW 10 90653	MPi 20 90250	HPI 20 91132	API 20 91142	HPW 20 90656	HPI 30 91152	API 30 91162	HPW 17 90651	MP 2 90260	HPI 35 91157	API 35 91167	HPW 15 90602	HPK 18 90663		
6	5	1 x 5 mm																							
		1 x 7 mm																							
10	6	1 x 5 mm																							
		1 x 7 mm																							
16	8	2 x 5 mm																							
		1 x 12 mm																							
25	10	2 x 5 mm																							
		1 x 12 mm																							
35	12	2 x 5 mm																							
		1 x 10 mm																							
50	14	3 x 5 mm																							
		1 x 12 mm																							
70	16	3 x 5 mm																							
		1 x 12 mm																							
95	18	3 x 5 mm																							
		4 x 5 mm																							
120	20	2 x 10 mm																							
		3 x 5 mm																							
150	22	4 x 5 mm																							
		2 x 10 mm																							
185	25	4 x 5 mm																							
		2 x 10 mm																							
240	28	4 x 5 mm																							
		2 x 13 mm																							
300	32	4 x 5 mm																							
		4 x 7 mm																							
400	38	2 x 13 mm																							
		3 x 13 mm																							
500	42	4 x 10 mm																							
		5 x 10 mm																							
625	44	6 x 10 mm																							
		800																							
1000	58	6 x 10 mm																							

Attention: Take care of the Assembly of cable lugs and connectors (page 193) when processing.
 Connectors: Minimum quantity of pressing for each side.

Crimping instructions for euro-series

WM-crimping

Crimping instructions
Minimum necessary crimping quantity of **WEITKOWITZ** cable lugs and connectors for euro-series.

cross section in mm	pressing quantity x width	Weitkowitz type classifications and product numbers																					
		WW 6/50 90179	WW 6/70 90186	WW 10/120 90188	MP 13 90200	MP 1 90300	Stilo 1 91100	HPI 10 91111	AP 10 91120	HPW 10 90653	MPI 20 90250	HPI 20 91132	API 20 91142	HPW 20 90656	HPI 30 91152	API 30 91162	HPW 17 90651	MP 2 90260	HPI 35 91157	API 35 91167	HPW 15 90602	HPK 18 90663	
6	1 x 5 mm																						
	1 x 7 mm																						
10	1 x 5 mm																						
	1 x 7 mm																						
16	2 x 5 mm																						
	1 x 7 mm																						
25	2 x 5 mm																						
	1 x 12 mm																						
35	2 x 5 mm																						
	1 x 10 mm																						
	1 x 12 mm																						
50	2 x 5 mm																						
	1 x 12 mm																						
70	2 x 5 mm																						
	1 x 12 mm																						
95	2 x 5 mm																						
	1 x 12 mm																						
120	3 x 5 mm																						
	2 x 7 mm																						
	1 x 10 mm																						
150	3 x 5 mm																						
	2 x 7 mm																						
185	3 x 5 mm																						
	2 x 7 mm																						
	2 x 10 mm																						
240	3 x 5 mm																						
	3 x 7 mm																						
	2 x 10 mm																						
300	4 x 5 mm																						
	3 x 7 mm																						
	2 x 13 mm																						
400	4 x 7 mm																						
	2 x 13 mm																						
500	3 x 13 mm																						
	3 x 13 mm																						
630	3 x 13 mm																						

Attention: Take care of the Assembly of cable lugs and connectors (page 193) when processing.
Connectors: Minimum quantity of pressing for each side.

Crimping instructions for tubular cable lugs and connectors

for finewiring conductors (page 18 – 24)
 WM-crimping

Crimping instructions
 Minimum necessary crimping quantity of **WEITKOWITZ** cable lugs and connectors for finewiring conductors.

Weitkowitz type classifications and product numbers																		
cross section in mm	pressing quantity x width	FW 10/70 90184	MP 1 90300	Stilo 1 91100	HPI 10 91111	AP 10 91120	HPW 10 90653	MPI 20 90250	HPI 20 91132	API 20 91142	HPW 20 90656	HPI 30 91152	API 30 91162	HPW 17 90651	MP 2 90260	HPI 35 91157	API 35 91167	HPW 15 90602
10	1 x 5 mm																	
	1 x 7 mm																	
16	1 x 5 mm																	
	2 x 5 mm																	
25	1 x 10 mm																	
	2 x 5 mm																	
35	1 x 10 mm																	
	2 x 5 mm																	
50	2 x 5 mm																	
	2 x 5 mm																	
70	2 x 5 mm																	
	3 x 5 mm																	
95	3 x 5 mm																	
	3 x 5 mm																	
120	3 x 5 mm																	
	3 x 5 mm																	
150	3 x 5 mm																	
	3 x 5 mm																	
185	3 x 5 mm																	
	3 x 7 mm																	
240	4 x 5 mm																	
	2 x 7 mm																	

Attention: Take care of the Assembly of cable lugs and connectors (page 193) when processing.
 Connectors: Minimum quantity of pressing for each side.

Crimping instructions for aluminium cable lugs and connectors

Hexagon-shape-crimping

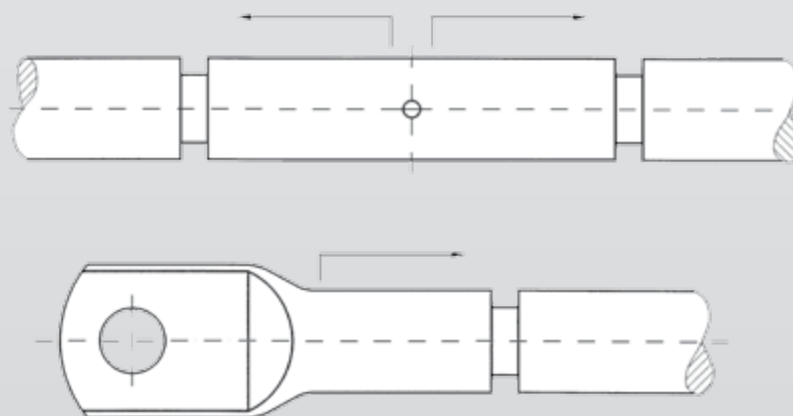
Crimping instructions
Minimum necessary crimping quantity of WEITKOWITZ cable lugs and connectors for aluminium-series.

		Weitkowitz type classifications and product numbers																						
cross section in mm	die code	pressing quantity x width	DW 6/50 90178	DW 6/70 90182	DW 10/120 90189	MP 13 90200	MP 1 90300	Silfo 1 91100	HPI 10 91111	AP 10 91120	HPW 10 90653	MPI 20 90250	HPI 20 91132	API 20 91142	HPW 20 90656	HPI 30 91152	API 30 91162	HPW 17 90651	MP 2 90260	HPI 35 91157	API 35 91167	HPW 15 90602	HPK 18 90663	
10	10	2 x 5 mm																						
		1 x 12 mm																						
16	10	3 x 5 mm																						
		1 x 12 mm																						
25	12	3 x 5 mm																						
		1 x 10 mm																						
		1 x 12 mm																						
		4 x 5 mm																						
35	14	5 x 5 mm																						
		2 x 12 mm																						
50	16	5 x 5 mm																						
		2 x 12 mm																						
70	18	6 x 5 mm																						
		3 x 10 mm																						
95	22	6 x 5 mm																						
		3 x 10 mm																						
120	22	6 x 5 mm																						
		3 x 10 mm																						
150	25	6 x 5 mm																						
		3 x 10 mm																						
185	28	6 x 5 mm																						
		3 x 13 mm																						
240	32	6 x 5 mm																						
		5 x 7 mm																						
300	34	3x 13 mm																						
		3 x 16 mm																						
400	38	4 x 16 mm																						
500	44	4 x 16 mm																						
625	52	4 x 20 mm																						
800	58	3 x 20 mm																						

Attention: Take care of the Assembly of cable lugs and connectors (page 193) when processing.
Connectors: Minimum quantity of pressing for each side.

Assembly of cable lugs and connectors – in general –

1. Take the measurements of the cable lugs / connectors and their allocation of cross section out of this catalogue.
2. Cut the cable right-angled to the conductor. Strip off the insulation of the cable. The part to be stripped of has to be as long as the sleeve (measurement a) of the cable lug / connector + about 10%.
3. Before crimping clean the conductor with a wire brush in order to remove dirt and oxidation. Sectorshaped conductors must be rounded before crimping!
4. Insert the noninsulated conductor into the compression sleeve until it reaches the wire stop.
5. Before starting to crimp please check whether conductor and cable lug respectively connector have the same cross section and do fit to each other according to our catalogue.
6. Please check whether crimping tool and crimping dies are suitable for the cable lugs/ connectors you want to crimp. You can take this information for each series and cross section from the manufacturer's catalogue or the operating instructions of the tool.
7. Please pay attention to the quantity and the direction of crimping. If several crimpings are necessary (cp. catalogue and/or operating instruction of the used tool) please follow the illustration below. Start crimping from the end of the cable and proceed in direction to the end of the sleeve (cp. illustration).



For the quantity of crimpings take notice of the preceding charts

Crimping tool recommendation for twin cord-end-sleeves (page 92)

checked in alliance with wire LiYV. H-05-K and H-07V-K (other wires on request)

cross section mm ²	AZ 8 90808	AZ 10 90810	AZ 14 90814	WZ 1 90701	WZ 12 90712	MP 13 90200	AP 10 und HPi 10 91120 / 91111
2 x 0,25	position 0,08 - 10 mm ²	x	x	die for end sleeves 0,5-16 ² die 0,5 - 0,75 ²			
2 x 0,34	position 0,08 - 10 mm ²	x	x	die for end sleeves 0,5-16 ² die 0,5 - 0,75 ²			
2 x 0,5	position 0,08 - 10 mm ²	x	x	die for end sleeves 0,5-16 ² die 1 - 1,5 ²			
2 x 0,75	position 0,08 - 10 mm ²	x	x	die for end sleeves 0,5-16 ² die 1 - 1,5 ²			
2 x 1	position 0,08 - 10 mm ²	x	x	die for end sleeves 0,5-16 ² die 2,5 ²			
2 x 1,5	position 0,08 - 10 mm ²	x	x	die for end sleeves 0,5-16 ² die 2,5 ²			
2 x 2,5	position 0,08 - 10 mm ²		x	die for end sleeves 0,5-16 ² die 4 ²		with die no. 90225	with die no. 91383
2 x 4	position 0,08 - 10 mm ²			die for end sleeves 0,5-16 ² die 6 ²		with die no. 90226	with die no. 91384
2 x 6	position 16 mm ²			die for end sleeves 0,5-16 ² die 10 ²	with die no. 90780	with die no. 90227	with die no. 91385
2 x 10					with die no. 90780	with die no. 90228	with die no. 91386
2 x 16					with die no. 90780	with die no. 90229	with die no. 91387

Crimping tool recommendation for twin cord-end-sleeves (page 92)

checked in alliance with wire LiYV. H-05-K and H-07V-K (other wires on request)

nominal cross section (mm ²)	Single cor cable – rubber insulated – PVC insulated – TPE insulated – heat resistant Cu current rating in A	Multicore cables + cords, excl. home- and portable apparatus – rubber insulated – PVC insulated – TPE insulated – heat resistant Cu current rating in A	Multicore heavy duty rubber cables minimum 0,6 / 1 kV Cu current rating in A
0,75	15	12	–
1	19	15	–
1,5	24	18	23
2,5	32	26	30
4	42	34	41
6	54	44	53
10	73	61	74
16	98	82	99
25	129	108	131
35	158	135	162
50	198	168	202
70	245	207	250
95	292	250	301
120	344	292	–
150	391	335	–
185	448	382	–
240	528	453	–
300	608	523	–
400	726	–	–
500	830	–	–
sources of current ratings:	DIN VDE 0298-4. 2003-08 Table 11 Columne 2	DIN VDE 0298-4. 2003-08 Table 11 Columne 5	DIN VDE 0298-4. 2003-08 Table 15 Columne 4+2

Note:
Design of these tables deviates from VDE 0298-4 design. In case of doubt, appliance of the current issue of the DIN VDE 0298-4 is obligatory.

Above Table values have to be taken into consideration of further applicable converting / derating factors:

- other ambient temperatures: DIN VDE 0298-4
- pay attention to the maximum electric current of the used equipment
- pay attention to the maximum current load of the used cable under consideration of the laying procedure

Technical data / general information

Temperature resistance	informations in ° C
Copper-cable lugs and -connectors without insulation	up to max. 120°C (according to DIN 46 234)
Copper-cable lugs and -connectors with pa-insulation	-55°C to +120°C
Copper-cable lugs and -connectors with PC-insulation	- 40 to + 120
Butt-connectors with shrink insulation: (p. 75)	-10°C to +105°C
Terminals with PVC (polyvinyl chloride) insulation	- 10 to + 70
Terminals with PC (polycarbonate=makrolon) insulation	- 40 to + 100
Terminals with PA (polyamide)-insulation	- 55 to + 100
Brass terminals, tin plated, without insulation	- 55 to + 100
Steel terminals, nickel-plated	max. 250
Cord-end-sleeves with insulation	max. 105
Nickel cable lugs and connectors	max. 500
Cable lugs out of stainless steel	max. 400

Silicone and halogen concentration of insulated connecting material

The following chart shows the concentration of silicone and halogen of insulated connection material delivered by us:

article description	catalogue page	free of silicone	free of halogen
Terminals, ring type	70 – 72	yes	yes
Terminals, fork type	73	yes	yes
Pin-terminals	74	yes	yes
Butt-connectors	74	yes	yes
Parallel-connectors	75	yes	yes
Heat shrinkable-butt splice connectors	75	yes	yes
Closed end connectors	75	yes	yes
Male und female disconnectors partly PVC - insulated	76	yes	no
Male und female disconnectors partly PC - insulated	76	yes	yes
Female disconnectors partly PA - insulated	77	yes	yes
Female disconnectors, fully insulated	77	yes	yes
Piggy back disconnectors PVC - insulated	78	yes	no
Piggy back disconnectors PC - insulated	78	yes	yes
Flag female disconnectors	78	yes	yes
Receptacle disconnectors PVC - insulated	78	yes	no
Bullet disconnectors partly PVC - insulated	79	yes	no
Bullet disconnectors partly PC - insulated	79	yes	yes
Receptacle and bullet disconnectors, fully insulated	79	yes	yes
Insulated housings	81	yes	yes
Insulated male tabs art.-no. 44064, 44067, 44069, 44071, 44073, 44075	83	yes	no
Insulated male tabs no. 44065	83	yes	yes
Insulated male tabs no. 44068	83	yes	yes
Cord-end-sleeves	90 + 91	yes	yes
Twin cord-end-sleeves	92	yes	yes
Cord-end-sleeves for short circuit resistant conductors	92	yes	yes
Aderendhülsen for Tri-Rated Cables	93	yes	yes
Cord-end-sleeves, strip form	96	yes	yes

Technical information for shrinkable tubings

technical information	Typ W 135 B	Typ W 135 gr/ge B	Typ W 135	Typ 135 tr	Typ W 135 3:1	Typ WKS 3:1
material	polyolefine	polyolefine	polyolefine	polyolefine	polyolefine	polyolefine
colour	black	green/yellow	black	transparent	black	black
shrinking proportion	2:1	2:1	2:1	2:1	3:1	3:1
heat resistance	– 55° C to + 125° C	– 55° C to + 125° C	– 55° C to + 135° C	– 55° C to + 135° C	– 55° C to + 135° C	– 55° C to + 110° C (outer sheath)
shrinking temperature	min. 90° C	min. 90° C	min. 110° C	min. 110° C	min. 90° C	min. 95° C
dielectric break-down strength/norm	20kV/mm according IEC 243	20kV/mm according IEC 243	24 kV/mm according VDE 0303T.2	26 kV/mm according VDE 0303T.2	24 kV/mm according VDE 0303T.2	22 kV/mm according VDE 0303T.2
further information	free of silicone UL224/VW1 accredited	free of silicone UL224/VW1 accredited	free of silicone UL224 accredited	free of silicone	free of silicone UL224 accredited	free of silicone

technical changes reserved.

technical information	Typ WDW	Typ W 135 gr/ge	Typ W 135 BL	Typ WHF	Schrumpfschlauch Set-Nr. 90859
material	polyolefine	polyolefine	polyolefine	polyolefine	polyolefine
colour	black	green/yellow	blue	black	dif. colours
shrinking proportion	3:1	3:1	3:1	2:1	2:1
heat resistance	– 55° C to + 110° C	– 55° C to + 135° C	– 55° C to + 135° C	– 40° C to + 105° C	– 55° C to + 135° C
shrinking temperature	min. 120° C	min. 90° C	min. 90° C	min. 115° C	min. 110° C
dielectric break-down strength/norm	20 kV/mm according ASTM-D149	24 kV/mm according VDE 0303T.2	24kV/mm according VDE 0303T.2	24kV/mm according IEC 243	24kV/mm according VDE 0303T.2
further information	free of silicone	free of silicone	free of silicone UL224 accredited	free of silicone	free of silicone UL224 accredited

Technical changes reserved.

The specified wall thickness (mm) on pages 103 – 106 are refer to the wall-thickness after completely shrinking!

copper notations

In line with the harmonisation of European standards the DIN 40500, DIN1787 and DIN 1754 page 1 had been cancelled and replaced by the European standards EN 13599, EN 13600, EN 13601 and EN 13605. Simultaneously the notations of copper materials have changed. The following chart gives an overview:

former notation	new notation	EN-number	standard	copper content at least
E-Cu 58	Cu-ETP	CW004A	DIN EN 13599 DIN EN 13600 DIN EN 13601	99,9%
E-Cu 57	–	–	–	99,9%
SE-Cu	Cu-HCP	CW021A	DIN EN 13600 DIN EN 13599	99,95%
	Cu-PHC	CW020A	DIN EN 13600	99,95%
SF-Cu	Cu-DHP	CW024A	DIN EN 12499	99,9%

We have all our copper notations adjusted to the new European standard. Therefore the names of the materials have changed but our high quality standard hasn't been affected in any way. Furthermore we will exclusively use copper with a copper concentration from at least 99,9%.

Traction - specified value

cross section mm ²	Values for crimpings up to 10 mm ² except cord-end-sleeves (EN 60352 part 2) release 10/2002			Value for blade terminals copper-conductors DIN EN 61210 (VDE 0613 part 6) release 6/2011			cord-end-sleeves	
	traction 100%	130%	150%	traction 100%			cross-section	EN 60947-1 (VDE 0660 part 100) release 04/2008 EN 60999-1 part 12/2000 (from 0.2-35 mm ²) EN 60999-2 part 4/2004 (from 50 mm ²)
0,2				28 N			0,2	10 N
0,34				40 N			0,34	15 N
0,5	60 N	78 N	90 N	56 N			0,5	20 N
0,75	85 N	111 N	128 N	84 N			0,75	30 N
1	108 N	140 N	162 N	108 N			1	35 N
1,5	150 N	195 N	225 N	150 N			1,5	40 N
2,5	230 N	299 N	345 N	230 N			2,5	50 N
4	310 N	403 N	465 N	310 N			4	60 N
6	360 N	468 N	540 N	360 N			6	80 N
10	380 N	494 N	570 N				10	90 N
	Values for copper crimpings from 10 mm ² DIN EN 61238-1 release 3/2004 except cord-end-sleeves (VDE 0220 part 100 cross-section x 60)			Values for aluminium crimpings from 16 mm ² (VDE 0220 part 100 cross-section x 40)			16	100 N
	traction 100%	130%	150%	traction 100%	130%	150%	25	135 N
10	600 N	780 N	900 N				35	190 N
16	960 N	1.248 N	1.440 N	640 N	832 N	960 N	50	236 N
25	1.500 N	1.950 N	2.250 N	1.000 N	1.300 N	1.500 N	70	285 N
35	2.100 N	2.730 N	3.150 N	1.400 N	1.820 N	2.100 N	95	351 N
50	3.000 N	3.900 N	4.500 N	2.000 N	2.600 N	3.000 N	120	427 N
70	4.200 N	5.490 N	6.300 N	2.800 N	3.640 N	4.200 N	150	427 N
95	5.700 N	7.410 N	8.550 N	3.800 N	4.940 N	5.700 N	185	503 N
120	7.200 N	9.360 N	10.800 N	4.800 N	6.240 N	7.200 N	240	578 N
150	9.000 N	11.700 N	13.500 N	6.000 N	7.800 N	9.000 N	300	578 N
185	11.100 N	14.430 N	16.650 N	7.400 N	9.620 N	11.100 N		
240	14.400 N	18.720 N	21.600 N	9.600 N	12.480 N	14.400 N		
300	18.000 N	23.400 N	27.000 N	12.000 N	15.600 N	18.000 N		
400	24.000 N*			16.000 N	20.800 N	24.000 N		
500	30.000 N*			20.000 N	26.000 N	30.000 N		
625	37.500 N*			25.000 N*				
800	48.000 N*			32.000 N*				
1.000	60.000 N*			40.000 N*				

* The maximum value of VDE 2002 T100 is 20.000 N!

To pass the test according to the norm, the conductor in the crimping connection may not slide by 100% of the traction during 60 seconds holding time.

Technical data / Authorisation of cable ties

GENERAL INFORMATION

WEITKOWITZ polyamide cable ties are qualitative high-standard products made in the European Union. We only use pure polyamide 6.6 without adding any recycling compounds. Material and products subject to strict quality controls.

FEATURES

The used polyamide 6.6 is self-extinguishing according to UL 94-V2 and free of halogen and silicon. Water absorption is approx. 2,5% at 23°C and 50% atmospheric moisture.

RESISTANCE AGAINST CHEMICALS

Among other things polyamide are resistant against dissolver, oils, benzin, hydrocarbon, sea water, alcohol, soap- and detergent agents.

CONDITION OF PROCESSING

Temperature of processing during installation: – 15 °C up to + 60 °C

APPLICATION CONDITIONS

Regularly usage temperature after installation for

- Standard cable ties nature and black and cable ties with steel clip: – 40 °C up to + 85 °C
- Heat stabilized cable ties: – 40 °C up to + 130 °C (temporary up to + 145 °C)

PACKAGE AND ADVICE FOR STORAGE

Usually we supply polymide cable ties in welded plastic bags á 100 or 50 pieces. To prevent the cable ties from desiccation the packages should remain close until processing. The ideal storage conditions are a temperature of about 20 °C and an air humidity of about 50%.

AUTHORISATION

With **WEITKOWITZ** cable ties you choose certificated quality:

Zertifikations-Institut POLYAMID-KABELBINDER		Norm
	Underwriters Laboratories UL (USA)	U.L. 94 - Flamability of Plastic Materials (raw material)
		U.L. 1565 - Wire Positioning Devices (finished product)
	Germanischer Lloyd	IEC 60092-101, MIL-23190 E
	RINA	UL 1565
	DET NORSKE VERITAS	IEC 60092-101
	BUREAU VERITAS	IEC 60092-101
	Lloyd's Register	IEC 60092 series, flame retardant
	Military Standard (USA) American Defense Dept.	IEC 60092-101
	IMQ	BV Rules for the Classification
	IMQ	IEC 60092 series, BV Rules for the Classification of Steel Ships
		UL 94-V2, UL 1565, MIL-S-23190E, IEC 60092-101
		MIL-C-23190
		Military Standard
		CEI EN 50146-I Ed.2000 and so to the essential requirements of the Policy B.T. 73/23 CEE and 93/68 CEE (mentioned for cable ties nature page 98 + 99)
		EN 50146:2000 and so to the essential requirements of the Policy B.T.73/23 CEE and further modifications (mentioned for cable ties with steel clip page102)
		ROHS-conformity tested
EDELSTAHL-KABELBINDER		Norm
	Underwriters Laboratories UL (USA)	Wire Positioning Devices
	DET NORSKE VERITAS	Rules for Classification of Ships and Mobile Offshore Units

Technical changes reserved.

The specific classification of a special kind of cable tie can be taken from the respective product pages.

Technical data / general information

Handling instructions for cable ties

Whenever working with cable ties the power you use to tighten a cable tie is very important. This power added with the load you want to fix results in the so called working load.

$$\text{working load} = \text{tightening power} + \text{constant load}$$

The tightening power should be approx. 10 % of the working load. The working load can be calculated as follows:

$$\text{working load} = \frac{\text{tensile strength according to catalogue}}{\text{safety factor}}$$

Under normal conditions it is sufficient to calculate with a safety factor of two. But if the connection has to stand vibrations, pushes, strong strain or extensions the safety factor must be higher. If the temperature is usually below 0°C or above 40°C a safety factor of 10 is required.

If the constant load (+ 10% tightening power) is higher than the calculated working load of the used cable tie, it is necessary either to use several cable ties or a different cable tie with a higher tensile strength.

If cable ties are tightened by hand it is possible that especially when handling small cable ties, the forces, which occur during tightening the cable tie, are higher than its tensile strength. In this case the cable tie will open up or tear immediately or after a short time. Therefore we recommend using a special cable tie tension tool in order to guarantee a constant and adequate tightening power.

If you have any further questions don't hesitate to contact us.

Printing of plastic cable ties in accordance with your instructions, e.g. for use as a seal

In accordance to your wishes we like to print the cable ties in a foil hot stamping process. The applied lettering is extremely adhesive and scratch resistant. Whether your company name and / or a serial number should be printed, you decide.

You have requirements, we deliver fast and cheap

for example:



technical data / general information

PULL-OUT-FORCES CONDUCTOR / CABLE LUG:

WEITKOWITZ cable lugs/-connectors which are processed with WEITKOWITZ crimping tools according to our crimping instructions have pull-out-forces look on page 211.

Please note, that a proper connection can only be guaranteed when using WEITKOWITZ crimping solderless cable connections in conjunction with WEITKOWITZ tools.

CRIMPING OF SOLID CONDUCTORS:

Cable lugs, connectors and crimping tools are designed for crimping stranded conductors unless differently indicated in our catalogue. For crimping on solid conductors, please clarify the processing with WEITKOWITZ before starting to crimp.

TIGHTENING TORQUES FOR FIXTURE SCREWS:

in accordance to EN60947-1, DIN 43673-1 oder DIN 46200:

size of thread	brass (Cu M10 and more) (Nm)	steel 8.8 (Nm)	stainless steel (Nm)
M5	2	2,5	3
M6	3	4,5	5,5
M8	6	10	15
M10	10	20	30
M12	14	40	60
M14	19	80	120
M16	25		
M20	36		
M24	50		

EXAMINATION OF YOUR WEITKOWITZ CRIMPING TOOLS:

We recommend a yearly examination (with permanent use shorter periods after agreement) of your WEITKOWITZ-crimping tools by our service-department. The fixed price contains a test certificate including an annual test badge.

REPAIR AT CRIMPING AND CUTTING TOOLS/MODIFICATION AT TOOLS:

Tools delivered by WEITKOWITZ may not be changed in any way. In particular it is not allowed to make diameter holes. For troublefree clamping of hydraulic cylinders into a vice use only the suitable WEITKOWITZ jaws. Repairs of tools may only be executed by WEITKOWITZ service-department.

LENDING-SERVICE:

For special problems of connection or the management of special order situations we offer a wide range of lending-tools

technical data / general information

Conductor cross section comparison

comparable ISO-cross section in mm ²	AWG / MCM	
	AWG	cross section mm ²
0,14	26	0,128
0,2	24	0,205
0,34	22	0,325
0,5	20	0,519
0,75	18	0,823
1	–	–
1,5	16	1,31
2,5	14	2,08
4	12	3,31
6	10	5,27
10	8	8,35
16	6	13,3
25	4	21,2
35	2	33,6
–	1	42,4
50	0	53,4
70	00	67,5
95	000	85,0
–	0000	107,2
120	250 MCM	127
150	300 MCM	152
185	350 MCM	177
240	500 MCM	253
300	600 MCM	304

Colour of insulation

cross section mm ²	colour
0,1 – 0,5	yellow
0,5 – 1	red
1,5 – 2,5	blue
4 – 6	yellow
10	red
16	blue
25	yellow

cross section mm ²	colour
35	red
50	blue
70	yellow
95	red
120	blue
150	yellow

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11585	23	12726	60	13087	9	13179	16,35	13250	12,30
12000	59	12727	60	13088	9	13180	16,35	13251	12,30
12001	59	12730	60	13100	13,32	13181	16,35	13252	12,30
12002	59	12731	60	13101	13,32	13182	16	13253	12,30
12009	59	12732	60	13102	13,32	13183	16,35	13254	12,30
12010	59	12733	60	13105	13,32	13184	16,35	13255	12,30
12011	59	12735	60	13106	13,32	13185	16,35	13256	12,30
12012	59	12736	60	13107	13,32	13187	16,35	13257	12,30
12015	59	12737	60	13108	13,32	13188	16,35	13259	12,30
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13290	12,30	13361	14,33	13537	21	13618	20	13705	10
13292	10	13362	14,33	13538	21	13620	20	13706	10
13293	12,30	13381	14	13539	21	13621	20	13707	10
13296	10	13384	14	13540	21	13622	20	13708	10
13297	11	13396	13	13541	21	13623	20	13709	10
13298	10	13410	17	13542	21	13625	20	13710	10
13299	11	13412	17	13543	21	13626	20	13711	10
13305	13	13414	17	13545	21	13627	20	13712	10
13306	13	13416	17	13546	21	13628	20	13713	10
13307	13	13418	17	13547	21	13630	20	13714	10
13308	13	13420	17	13548	21	13631	20	13715	10
13309	13	13450	17,36	13549	21	13632	20	13716	10
13310	13	13452	17,36	13550	21	13633	20	13717	10
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13320	14	13470	17	13561	17	13642	21	13726	11
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13327	14	13482	17,36	13568	17	13649	21	13732	11
13328	14	13484	17,36	13569	17	13650	21	13733	11
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