1. ELECTRICAL CONNECTION- AND INSTALLATION TECHNIQUE

1.3 Uninsulated tubular cable lugs and connectors, druseidt standard design

druseidt delivers tubular cable lugs and connectors made out of copper in different tube dimensions. So the following described standard design, made out of copper tube HCP resp. ETP acc. to DIN 13600, are delivered since decades. The surface of all terminals are tin plated and protect them against environmental influences and corrosion.

Material with exact dimension (diameter/thickness) and the manufacturing of correct fitted connectors guarantee an optimal and safety processability of all druseidt cable lugs. The crimping procedure should be done by a so called WM-crimping. This crimping design enables an intensive compressing to the center of the conductor, also when working with fine stranded cables.

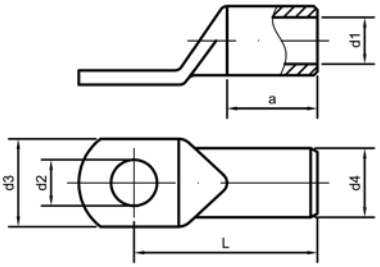
Please notice that the crimping procedures will be done only with the right tools suitable for druseidt tubular cable lugs and connectors in standard design.

The number of the crimping procedures depends on the crimping width resp. the cross-section and the length of the connector sleeve. More detailed information are given on the catalogue page 202. druseidt tubular cable lugs and connectors are suitable for application up to a temperature of + 120° C (cf DIN 46234 too).

Crimping design:
WM-crimping

Tubular cable lugs 0,75-50 mm²

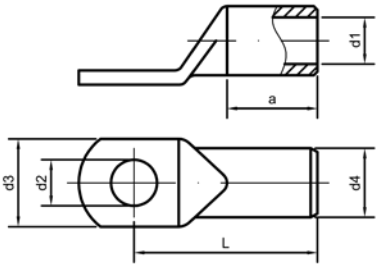
druseidt standard design,
Material: Cu-HCP DIN EN 13600
Surface: tinned



Part-No. without inspection hole	Part-No. with inspection hole	cross-section mm²	drilling M	dimensions mm d_1	d_2	d_3	d_4	L	a	weight kg/‰ pcs.	crimping-tools/page no.
01580	-	0,75	3	1,4	3,2	6,5	3,0	12,5	6,0	0,71	30445 0,75-10 mm², 30446 1,5-16 mm², page no. 160; 12375, 12376 page no. 161; 12655 page no. 165; 12377 page no. 161; 12869 page no. 162, 12724 page no. 190; 30460 page no. 167; 31460 page no. 169; 12930, 12933 page no. 171; 12766 page no. 172; 12965/S, 12968 page no. 173; 14240/41 page no. 177; 12748 page no. 179; 13552 page no. 181; 13551/25, 13551/42, 13537 page no. 183; 12725 page no. 186; 12728 page no. 188; 12836, 12485-87, 05256 page no. 199; 12837 page no. 200
01581	-		4		4,3	8,5		14,0		0,80	
01582	-		5		5,3	10,0		15,0		1,00	
01583	-	1,5	3	1,9	3,2	6,5	3,9	14,0	6,0	1,18	
01584	-		4		4,3	8,5		15,0		1,34	
01585	-		5		5,3	10,0		16,0		1,45	
01586	-		6		6,4	11,0		18,0		1,69	
01588	-	2,5	4	2,4	4,3	8,5	4,4	15,0	6,5	1,57	
01589	-		5		5,3	10,0		16,0		1,72	
01590	-		6		6,4	11,0		18,0		1,92	
01591	-		8		8,4	13,0		20,0		2,20	
01592	-	4,0	4	3,0	4,3	8,5	5,0	17,0	8,0	2,20	
01593	-		5		5,3	10,0		18,0		2,40	
01594	-		6		6,4	11,0		20,0		2,60	
01595	-		8		8,4	14,0		22,0		3,00	
01596	-	6,0	4	3,7	4,3	8,5	5,5	17,5	8,0	2,40	
01597	-		5		5,3	10,0		19,0		2,60	
01598	-		6		6,4	11,0		21,0		2,80	
01599	-		8		8,4	14,0		23,0		3,00	
10129	**10156**	10,0	4	4,3	4,3	10,0	6,7	19,5	10,0	4,10	
01600	**01680**		5		5,3	10,0		20,5		4,30	
01601	**01681**		6		6,4	11,0		22,5		4,80	
01602	**01682**		8		8,4	15,0		25,0		5,30	
01603	**01683**		10		10,5	18,0		27,5		5,70	
01604	**01684**		12		13,0	19,0		28,5		5,80	
01605	**01685**	16,0	5	5,4	5,3	12,0	7,8	22,5	11,0	5,70	
01606	**01686**		6		6,4	12,0		24,5		6,40	
01607	**01687**		8		8,4	15,0		26,5		6,70	
01608	**01688**		10		10,5	18,0		29,0		7,20	
01609	**01689**		12		13,0	20,0		30,0		7,20	
10130	-	25,0	5	6,9	5,3	14,0	9,4	25,0	13,0	8,70	
01610	**01690**		6		6,4	14,0		27,0		9,50	
01611	**01691**		8		8,4	15,0		29,0		10,10	
01612	**01692**		10		10,5	18,0		31,5		10,90	
01613	**01693**		12		13,0	20,0		32,5		10,80	
10132	**10158**		14		15,0	22,0		34,5		11,60	
10133	**10159**	35,0	5	8,3	5,3	16,5	11,3	32,5	16,0	16,00	
01614	**01694**		6		6,4	16,5		32,5		16,00	
01615	**01695**		8		8,4	16,5		33,0		16,20	
01616	**01696**		10		10,5	18,0		35,5		18,00	
01617	**01697**		12		13,0	20,0		36,5		17,00	
10134	**10160**		14		15,0	22,0		39,0		18,70	
10135	**10162**		16		17,0	26,0		41,5		19,70	
10140	**10163**	50,0	6	9,6	6,4	19,0	13,1	36,0	18,0	23,50	
01618	**01698**		8		8,4	19,0		37,0		24,10	
01619	**01699**		10		10,5	20,0		39,0		25,30	
01620	**01700**		12		13,0	23,0		40,5		26,10	
10136	**10164**		14		15,0	25,0		42,5		27,90	
01621	**01701**		16		17,0	27,0		45,5		29,40	
10137	**10165**		20		21,0	28,0		50,0		35,70	

Tubular cable lugs 70-630 mm²

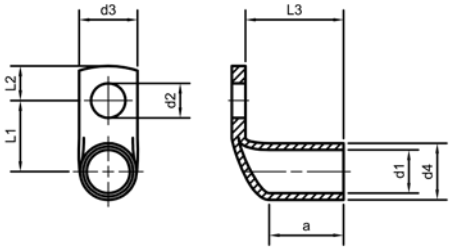
druseidt standard design,
Material: Cu-HCP DIN EN 13600
Surface: tinned



Part-No. without inspection hole	Part-No. with inspection hole	cross-section mm²	drilling M	dimensions mm d_1	d_2	d_3	d_4	L	a	weight kg/‰ pcs.	crimping-tools/page no.
10138	**10166**	70	6	11,5	6,4	22,5	15,3	41,0	21	34,60	05256 page no. 199 / 12869 page no. 162 / 12766 page no. 172; 12965/S, 12968 page no. 173; 14240/41 page no. 177; 12748 page no. 179; 13552 page no. 181; 12724 page no. 190 13551/25, 13551/42, 13537 page no. 183; 12836, 12485-87 page no. 199; 12837 page no. 200 / 31460 page no. 169; 12930, 12933 page no. 171; 12728 page no. 188 / 12377 page no. 161; 30460 page no. 167; 12725 page no. 186
01622	**01702**		8		8,4	22,5		41,0		34,60	
01623	**01703**		10		10,5	22,5		42,5		36,30	
01624	**01704**		12		13,0	23,0		43,5		36,40	
10139	**10167**		14		15,0	26,0		46,0		39,30	
01625	**01705**		16		17,0	28,0		48,5		40,20	
10141	**10168**		20		21,0	29,0		53,0		42,10	
10143	**10169**	95	6	13,5	6,4	25,0	17,5	46,0	23	47,10	
01626	**01706**		8		8,4	25,0		45,5		47,60	
01627	**01707**		10		10,5	25,0		47,0		48,20	
01628	**01708**		12		13,0	26,0		47,0		48,20	
10144	**10170**		14		15,0	26,0		49,0		51,60	
01629	**01709**		16		17,0	28,0		50,0		51,50	
10146	**10171**		20		21,0	31,0		54,5		56,60	
10147	**10172**	120	8	15,5	8,4	29,0	20,0	50,5	26	66,00	
01630	**01710**		10		10,5	29,0		53,0		71,30	
01631	**01711**		12		13,0	29,0		52,5		71,40	
10148	**10173**		14		15,0	29,0		53,5		72,40	
01632	**01712**		16		17,0	29,0		55,0		73,10	
01633	**01713**		20		21,0	35,0		60,0		78,10	
01634	**01714**	150	10	16,8	10,5	31,0	21,3	56,5	29	83,40	
01635	**01715**		12		13,0	31,0		56,0		81,80	
10149	**10174**		14		15,0	31,0		57,0		83,30	
01636	**01716**		16		17,0	31,0		58,0		85,00	
01637	**01717**		20		21,0	35,0		63,0		88,40	
10145	**10175**	185	10	19,0	10,5	35,0	24,0	59,0	30	106,10	
01638	**01718**		12		13,0	35,0		58,5		106,10	
10151	**10176**		14		15,0	35,0		61,0		107,20	
01639	**01719**		16		17,0	35,0		63,0		108,60	
01640	**01720**		20		21,0	35,0		66,0		113,30	
10152	**10177**	240	10	21,0	10,5	38,0	26,0	67,0	35	129,70	
01641	**01721**		12		13,0	38,0		67,0		130,20	
10153	**10178**		14		15,0	38,0		69,0		133,60	
01642	**01722**		16		17,0	38,0		69,5		138,40	
01643	**01723**		20		21,0	38,0		71,0		139,50	
01644	**01724**	300	12	24,0	13,0	44,0	30,0	82,0	42	217,20	
10154	**10190**		14		15,0	44,0		84,0		221,90	
01645	**01725**		16		17,0	44,0		85,0		219,40	
01646	**01726**		20		21,0	44,0		85,0		229,20	
10155	-	400	10	27,5	10,5	49,0	33,5	92,0	47	279,00	
10150	-		12		13,0	49,0		92,0		279,00	
01647	-		16		17,0	49,0		92,0		279,00	
01648	-		20		21,0	49,0		92,0		281,90	
01649	-	500	16	31,0	17,0	55,5	38,0	113,0	70	493,80	
01650	-		20		21,0	55,5		113,0		485,60	
01651	-	630	16	34,0	17,0	60,0	41,0	115,0	70	513,50	
01652	-		20		21,0	60,0		115,0		506,00	

Tubular cable lugs 0,75-150 mm² druseidt standard design Angle type 90°

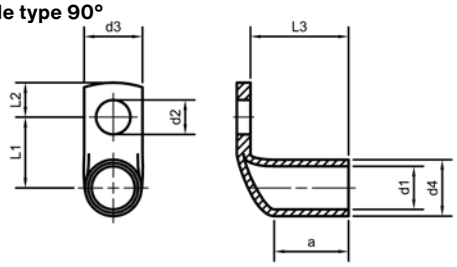
Material: Cu-HCP DIN EN 13600 Surface: tinned



Part-No. without inspection hole	Part-No. with inspection hole	cross-section mm²	drilling M	dimensions mm d_1	d_2	d_3	d_4	L_1	L_2	L_3	a	weight kg/‰ pcs.	crimping-tools/page no.
10400	-	0,5 - 0,75	3	1,4	3,2	6,5	3,0	7,5	4,0	9,5	5,0	0,90	30445 0,75-10 mm², 30446 1,5-16 mm² page no. 160
10402	-		4		4,3	8,5		8,5	5,0			1,00	
10404	-		5		5,3	10,0		9,5	5,5			1,00	
10406	-	1,0 - 1,5	3	1,9	3,2	6,5	3,9	8,0	4,0	9,5	5,0	1,60	
10408	-		4		4,3	8,5		9,0	5,0			1,60	
10410	-		5		5,3	10,0		10,0	5,5			1,60	
10412	-		6		6,4	11,0		12,0	7,5			1,60	
10414	-	2,5	4	2,4	4,3	8,5	4,4	9,2	5,0	9,5	5,5	1,83	
10416	-		5		5,3	10,0		10,2	5,5			1,84	
10418	-		6		6,4	11,0		12,2	7,5			2,20	
10420	-		8		8,4	14,0		14,2	10,0			2,30	
10422	-	4	4	3,0	4,3	8,5	5,0	9,5	5,0	10,5	7,0	2,50	
10424	-		5		5,3	10,0		10,5	5,5			2,41	
10426	-		6		6,4	11,0		12,5	7,5			2,90	
10428	-		8		8,4	14,0		14,5	10,0	11,5		3,00	
10430	-	6	4	3,7	4,3	8,5	5,5	9,8	5,0	10,5	7,0	2,70	12376 page no. 161
10432	-		5		5,3	10,0		10,8	5,5			2,52	
10434	-		6		6,4	11,0		12,8	7,5			2,82	
10436	-		8		8,4	14,0		14,8	10,0			3,40	
10438	**10838**	10	5	4,3	5,3	10,0	6,7	11,4	5,5	15,0	9,0	4,90	12375 page no. 159; 12655 page no. 165
01800	**01850**		6		6,4	11,0		13,4	7,5			5,30	
01801	**01851**		8		8,4	15,0		15,4	10,0			5,40	
01802	**01852**		10		10,5	18,0		17,4	12,0			6,30	
01803	**01853**		12		13,0	20,0		18,4	13,0			5,61	
10440	**10840**	16	5	5,4	5,3	11,0	7,8	11,9	5,5	16,5	10,0	6,55	12377 page no. 161; 30460 page no. 167; 12725 page no. 186
01804	**01854**		6		6,4	11,5		13,9	7,5			6,96	
01805	**01855**		8		8,4	15,0		15,9	10,0			8,20	
01806	**01856**		10		10,5	18,0		17,9	12,0			8,20	
01807	**01857**		12		13,0	20,0		18,9	13,0			7,78	
01808	**01858**	25	6	6,9	6,4	14,0	9,4	14,7	7,5	21,0	12,0	11,27	31460 page no. 169; 12930, 12933 page no. 171; 12766 page no. 172; 12869 page no. 162, 12724 page no. 190, 12965/S, 12968 page no. 173; 14240/41 page no. 177; 12748 page no. 179; 13552 page no. 181; 13551/25, 13551/42, 13537 page no. 183; 12728 page no. 188; 12836, 12485-87, 05256 page no. 199; 12837 page no. 200
01809	**01859**		8		8,4	15,0		16,7	10,0			12,15	
01810	**01860**		10		10,5	18,0		18,7	12,0			11,84	
01811	**01861**		12		13,0	20,0		19,7	13,0			12,40	
01812	**01862**	35	6	8,3	6,4	16,5	11,3	16,2	7,5	21,0	15,0	17,64	
01813	**01863**		8		8,4	16,5		18,2	10,0			17,26	
01814	**01864**		10		10,5	18,0		20,2	12,0			18,00	
01815	**01865**		12		13,0	20,0		21,2	13,0			18,00	
10441	**10841**	50	6	9,6	6,4	19,0	13,1	17,1	7,5	26,0	17,0	26,28	
01816	**01866**		8		8,4	19,0		19,1	10,0			26,70	
01817	**01867**		10		10,5	20,0		21,1	12,0			29,90	
01818	**01868**		12		13,0	23,0		23,5	13,0			30,00	
10442	**10842**		16		17,0	27,0		25,1	16,0			30,00	
01819	**01869**	70	8	11,5	8,4	22,0	15,3	20,2	10,0	23,9	20,0	36,56	
01820	**01870**		10		10,5	22,0		22,2	12,0			38,38	
01821	**01871**		12		13,0	23,0		23,2	13,0			38,30	
10443	**10843**		16		17,0	27,0		26,2	16,0			39,46	
01822	**01872**	95	8	13,5	8,4	25,0	17,5	21,3	10,0	28,0	22,0	48,69	
01823	**01873**		10		10,5	25,0		23,3	12,0			52,70	
01824	**01874**		12		13,0	25,0		24,3	13,0			50,63	
10444	**10844**		16		17,0	28,0		27,3	16,0			52,51	
01825	**01875**	120	10	15,5	10,5	29,0	20,0	25,0	12,0	32,0	25,0	74,00	
01826	**01876**		12		13,0	29,0		26,0	13,0			73,25	
01827	**01877**		16		17,0	29,0		28,5	16,0			72,95	
01828	**01878**	150	10	16,8	10,5	31,0	21,3	25,7	12,0	34,0	28,0	80,70	
01829	**01879**		12		13,0	31,0		26,7	13,0			82,90	
01830	**01880**		16		17,0	31,0		29,7	16,0			85,00	
10445	**10845**		20		21,0	35,0		33,7	19,0			88,90	

Tubular cable lugs 185-300 mm² druseidt standard design Angle type 90°

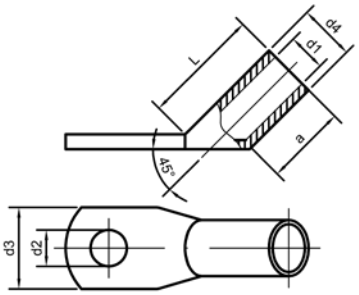
Material: Cu-HCP DIN EN 13600 Surface: tinned



Part-No. without inspection hole	Part-No. with inspection hole	cross-section mm²	drilling M	dimensions mm d_1	d_2	d_3	d_4	L_1	L_2	L_3	a	weight kg/‰ pcs.	crimping-tools/page no.
10446	**10846**	185	10	19	10,5	35	24	27	12	34,8	29	99,00	31460 page no. 169; 12930, 12933 page no. 171; 12766 page no. 172; 12965/S, 12968 page no. 173; 14240/41 page no. 177; 12748 page no. 179; 13552 page no. 181; 13551/25, 13551/42, 13537 page no. 183; 12728 page no. 188; 12836, 12485-87, 05256 page no. 199; 12837 page no. 200 12869 page no. 162 12724 page no. 190
01831	**01881**		12		13,0	35		28	13			101,40	
01832	**01882**		16		17,0	35		31	16			111,50	
01833	**01883**		20		21,0	35		35	19			115,80	
01834	**01884**	240	12	21	13,0	38	26	29	13	43,0	34	126,85	
01835	**01885**		16		17,0	38		32	16			134,55	
01836	**01886**		20		21,0	38		36	19			140,25	
01838	**01888**	300	12	24	13,0	43	30	31	13	51,0	41	198,20	
01840	**01890**		16		17,0	43		34	16			209,00	
01842	**01892**		20		21,0	43		38	19			218,10	

Tubular cable lugs 10-240 mm² druseidt standard design Angle type 45°

Material: Cu-HCP DIN EN 13600 Surface: tinned

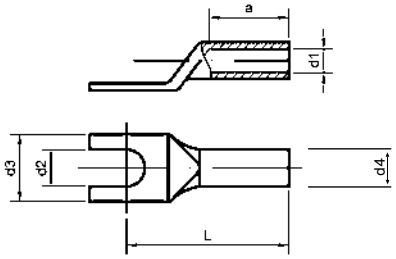


Part-No.	cross-section mm²	drilling M	dimensions mm d_1	d_2	d_3	d_4	L	a	weight kg‰ pcs.	crimping-tools/page no.
10438/S-45	10	5	4,3	5,3	10,0	6,7	15,0	9	4,90	12728 page no. 188; 12836, 12485-87, 05256 page no. 199; 12837 page no. 200; 12869 page no. 162; 12724 page no. 190
01800/S-45		6		6,4	11,0				5,40	
01801/S-45		8		8,4	15,0				5,90	
01804/S-45	16	6	5,4	6,4	11,5	7,8	16,5	10	6,90	
01805/S-45		8		8,4	15,0				7,08	
01806/S-45		10		10,5	18,0				8,20	
01808/S-45	25	6	6,9	6,4	14,0	9,4	20,0	12	10,44	
01809/S-45		8		8,4	15,0				11,30	
01810/S-45		10		10,5	18,0				11,97	
01811/S-45		12		13,0	20,0				12,17	
01812/S-45	35	6	8,3	6,4	16,5	11,3	24,5	15	18,09	
01813/S-45		8		8,4	16,5				18,75	
01814/S-45		10		10,5	18,0				19,51	
01815/S-45		12		13,0	20,0				19,73	
01816/S-45	50	8	9,6	8,4	19,0	13,1	28,5	17	28,50	
01817/S-45		10		10,5	20,0				32,70	
01818/S-45		12		13,0	23,0				34,14	
01819/S-45	70	8	11,5	8,4	22,0	15,3	33,0	20	40,24	
01820/S-45		10		10,5	22,0				42,96	
01821/S-45		12		13,0	23,0				42,48	
01822/S-45	95	8	13,5	8,4	25,0	17,5	38,0	22	53,80	
01823/S-45		10		10,5	25,0				56,80	
01824/S-45		12		13,0	25,0				57,40	
01825/S-45	120	10	15,5	10,5	29,0	20,0	43,5	25	83,25	
01826/S-45		12		13,0	29,0				81,50	
01827/S-45		16		17,0	29,0				85,92	
01828/S-45	150	10	16,8	10,5	31,0	21,3	47,5	28	98,70	
01829/S-45		12		13,0	31,0				96,80	
01830/S-45		16		17,0	31,0				101,20	
01831/S-45	185	12	19,0	13,0	35,0	24,0	51,0	29	122,90	
01832/S-45		16		17,0	35,0				119,60	
01833/S-45		20		21,0	35,0				139,90	
01834/S-45	240	12	21,0	13,0	38,0	26,0	61,0	34	155,80	
01835/S-45		16		17,0	38,0				165,10	
01836/S-45		20		21,0	38,0				170,40	

Tubular cable lugs 0,5-16 mm²

druseidt standard design, Forktype

Material: Cu-ETP resp. HCP DIN EN 13600 Surface: tinned



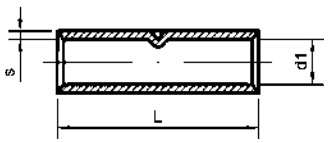
Part-No.	cross-section mm²	drilling M	dimensions mm d1	d2	d3	d4	L	a	weight kg/‰ pcs.	crimping-tools/page no.
02100	0,5 - 0,75	3	1,4	3,2	6,5	3,0	12,5	6,0	0,70	30445 page no. 160; 30446 page no. 160; 12655 page no. 165; 30460 page no. 167; 31460 page no. 169; 12930, 12933 page no. 171; 12725 p.no. 186; 12869 p.no. 162 12728 p.no. 188; 12724 p.no. 190
02101		4		4,3	8,5		14,0		0,70	
02102		5		5,3	10,0		15,0		0,75	
02105	1,0 - 1,5	4	1,9	4,3	8,5	3,9	15,0	6,0	1,17	
02106		5		5,3	10,0		16,0		1,30	
02107		6		6,4	11,0		18,0		1,39	
02110	2,5	4	2,4	4,3	8,5	4,4	15,0	6,5	1,48	
02111		5		5,3	10,0		16,0		1,55	
02112		6		6,4	11,0		18,0		1,63	
02113		8		8,4	13,0		20,0		1,91	
02115	4	4	3,0	4,3	8,5	5,0	17,0	8,0	1,81	
02116		5		5,3	10,0		18,0		2,06	
02117		6		6,4	11,0		20,0		2,16	
02118		8		8,4	14,0		22,0		2,31	
02121	6	4	3,7	4,3	8,5	5,5	17,5	8,0	2,07	
02122		5		5,3	10,0		19,0		2,25	
02123		6		6,4	11,0		21,0		2,49	
02124		8		8,4	14,0		23,0		2,58	
02127	10	5	4,3	5,3	10,0	6,7	20,5	10,0	3,96	
02128		6		6,4	11,0		22,5		4,17	
02129		8		8,4	15,0		25,0		4,57	
02132	16	5	5,4	5,3	12,0	7,8	22,5	11,0	5,25	
02133		6		6,4	12,0		24,5		5,56	
02134		8		8,4	15,0		26,5		6,00	
02137	16f	5	6,0	5,3	14,0	9,0	25,5	13,0	8,24	
02138		6		6,4	14,0		27,0		8,60	
02139		8		8,4	15,0		29,5		9,37	

Butt connectors 0,5-630 mm²

druseidt standard design

Material: Cu-ETP resp. HCP DIN EN 13600

Surface: tinned



Part-No.	cross-section mm²	dimensions mm d1	L	s	weight kg/‰ pcs.	crimping-tools/page no.
13686	0,5 - 0,75	1,4	15	0,8	0,80	page no. 160-162 165-200
13687	1,0 - 1,5	1,9	15	1,0	1,20	
13688	2,5	2,4	16	1,0	1,50	
13689	4	3,0	19	1,0	2,10	
13690	6	3,7	19	0,9	2,20	
13691	10	4,3	30	1,2	5,52	
13692	16	5,4	35	1,2	8,00	
13693	25	6,9	40	1,25	11,74	
13694	35	8,3	45	1,5	19,12	
13695	50	9,6	50	1,75	27,00	
13696	70	11,5	55	1,9	39,00	
13697	95	13,5	60	2,0	50,00	
13698	120	15,5	65	2,25	71,90	
13699	150	16,8	70	2,25	86,50	
01752	185	19,0	75	2,5	116,25	
01753	240	21,0	85	2,5	142,20	
01754	300	24,0	100	3,0	224,00	
01755	400	27,5	100	3,0	261,70	
01756	500	31,0	140	3,5	473,00	
01757	630	34,0	160	3,5	617,50	

1. ELECTRICAL CONNECTION- AND INSTALLATION TECHNIQUE

1.4 Uninsulated tubular cable lugs and connectors for fine stranded cables

Highly flexible, fine stranded copper cables and conductors are needed to transfer the current inside of smaller and smaller designed switch gears or switch devices as well as inside of plants under cramped conditions (conductors similar to our highly flexible silicone insulated leadings acc. to the following catalogue page 40).

Such conductors consist out of single wires with a diameter of 0,07-0,10 mm and have therefore some thousands thin wires inside. So the outside diameters of the stripped cables are bigger compared with standard conductors. To realize crimping-operations with cable lugs which have the same cross-section than the leadings, druseidt offers a serie of cable lugs and connectors especially coordinated with the dimension of such fine stranded leadings. Additionally to the straight designed cable lugs druseidt offers angle-types as well as cable lugs with smaller flange too.

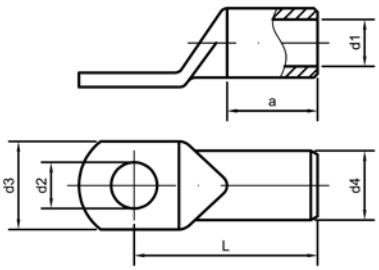
Combined with our highly flexible silicone insulated leadings we offer the possibility to work with small and flexible connections also under extremely cramped conditions. We recommend to crimp such cable lugs with our special WM-crimping compression dies. This crimping design enables an intensive compressing to the center of the conductor, especially when working with fine stranded cables.

Please notice that the crimping procedures will be done only with the right tools and the right compression dies suitable for druseidt tubular cable lugs and connectors for fine stranded cables.

Crimping design:
WM-crimping

Tubular cable lugs 10f-240f mm²
for fine stranded cables

Material: Cu-HCP DIN EN 13600
Surface: tinned

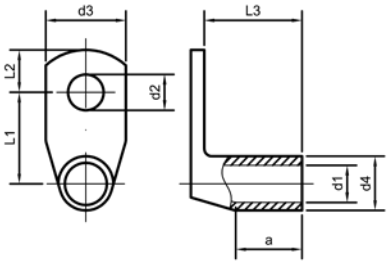


c UL us LISTED
E 485326 up to 240f

Part-No. without inspection hole	Part-No. with inspection hole	cross-section mm²	drilling M	dimensions mm d_1	d_2	d_3	d_4	L	a	weight kg/‰ pcs.	crimping-tools/page no.
13650	**13650/S**	10f	5	5,0	5,3	12	8,0	23,0	12	7,00	12930, 12933, page no. 171; 12728 page no. 188, 12869 page no. 162
13651	**13651/S**		6		6,4	12		25,0		7,60	12766 page no. 172; 12965S/, 12968 page no. 173; 14240/41 page no. 177; 12748 page no. 179; 13552 page no. 181; 13551/25, 13551/42, 13537 page no. 183; 12836, 12485-87, 05256 page no. 199; 12837 page no. 200; 12724 page no. 190
13652	**13652/S**		8		8,4	15		28,0		8,90	
13653	**13653/S**		10		10,5	18		31,0		9,70	
13654	**13654/S**		12		13,0	20		32,0		10,00	
10700	**10700/S**	16f	5	6,0	5,3	14	9,0	25,5	13	9,40	31460 page no. 169
13655	**13655/S**		6		6,4	14		27,0		10,10	
13656	**13656/S**		8		8,4	15		29,5		11,20	
13657	**13657/S**		10		10,5	18		32,0		11,20	
13658	**13658/S**		12		13,0	20		33,0		11,80	
13659	**13659/S**	25f	6	7,7	6,4	16	10,7	32,0	16	14,70	30460 page no. 167; 12725 page no. 186
13660	**13660/S**		8		8,4	16		34,0		14,30	
13661	**13661/S**		10		10,5	18		35,0		15,30	
13662	**13662/S**		12		13,0	20		36,0		16,10	
10702	**10702/S**	35f	6	9,2	6,4	18	12,4	36,0	18	20,70	12374 page no. 162
13663	**13663/S**		8		8,4	18		36,0		20,70	
13664	**13664/S**		10		10,5	18		38,0		21,40	
13665	**13665/S**		12		13,0	23		40,0		22,20	
13666	**13666/S**		16		17,0	28		45,0		22,10	
10704	**10704/S**	50f	6	11,2	6,4	22	14,8	42,0	21	32,00	
13667	**13667/S**		8		8,4	22		42,0		32,20	
13668	**13668/S**		10		10,5	22		43,0		33,10	
13669	**13669/S**		12		13,0	23		44,0		33,60	
13670	**13670/S**		16		17,0	28		48,5		36,50	
13671	**13671/S**	70f	8	13,5	8,4	25	17,5	45,5	23	48,00	
13672	**13672/S**		10		10,5	25		47,0		48,40	
13673	**13673/S**		12		13,0	26		47,0		48,40	
13674	**13674/S**		16		17,0	28		50,0		50,50	
10706	**10706/S**		20		21,0	31		54,5		55,20	
10707	**10707/S**	95f	8	15,5	8,4	29	20,0	50,5	26	65,60	
13675	**13675/S**		10		10,5	29		53,0		71,50	
13676	**13676/S**		12		13,0	29		52,5		69,80	
13677	**13677/S**		16		17,0	29		55,0		71,90	
13678	**13678/S**		20		21,0	35		60,0		76,10	
13679	**13679/S**	120f	10	16,8	10,5	31	21,3	56,5	29	80,70	
13680	**13680/S**		12		13,0	31		56,0		80,70	
13681	**13681/S**		16		17,0	31		58,0		83,60	
13682	**13682/S**		20		21,0	35		63,0		87,50	
10708	**10708/S**	150f	10	19,0	10,5	35	24,0	59,0	30	104,00	
13683	**13683/S**		12		13,0	35		58,5		107,00	
13684	**13684/S**		16		17,0	35		63,0		111,10	
13685	**13685/S**		20		21,0	35		66,0		119,60	
10710	**10710/S**	185f	10	21,0	10,5	38	26,0	67,0	29	135,90	
10711	**10711/S**		12		13,0	38		67,0		121,50	
10712	**10712/S**		16		17,0	38		69,5		129,80	
10713	**10713/S**		20		21,0	38		71,0		134,50	
10714	**10714/S**	240f	12	24,0	13,0	44	30,0	82,0	42	212,60	
10715	**10715/S**		16		17,0	44		82,0		219,40	
10716	**10716/S**		20		21,0	44		82,0		222,00	
10718	-	300f	12	27,5	13,0	49	33,5	92,0	47	279,00	
10719	-		16		17,0	49		92,0		279,00	
10720	-		20		21,0	49		92,0		281,90	

Tubular cable lugs 10f-240f mm²
Angle type 90° for fine stranded cables

Material: Cu-HCP DIN EN 13600
Surface: tinned



c UL us LISTED
E 485326 up to 240f

Part-No.	cross-section mm²	drilling M	dimensions mm d_1	d_2	d_3	d_4	L_1	L_2	L_3	a	weight kg/‰ pcs.	crimping-tools/page no.
03410	10f	5	5,0	5,3	12,0	8,0	12,0	5,5	17,0	11	8,60	12930, 12933, page no. 171; 12728 page no. 188; 12869 page no. 162
03412		6		6,4	13,0		14,0	7,5			8,70	
03414		8		8,4	15,0		16,0	10,0			9,40	
03416		10		10,5	18,0		18,0	12,0			9,70	
03418		12		13,0	20,0		19,0	13,0			9,80	
03420	16f	5	6,0	5,3	15,0	9,0	12,5	5,5	17,0	12	9,40	
03422		6		6,4	15,0		14,5	7,5			10,50	
03424		8		8,4	15,0		16,5	10,0			11,80	
03426		10		10,5	18,0		18,5	12,0			12,50	
03428		12		13,0	20,0		19,5	13,0			14,30	
03430	25f	6	7,7	6,4	16,0	10,7	15,9	7,5	20,8	15	15,50	
03432		8		8,4	16,0		17,9	10,0			18,00	
03434		10		10,5	18,0		19,9	12,0			18,80	
03436		12		13,0	20,0		20,9	13,0			16,90	
03440	35f	6	9,2	6,4	18,0	12,4	16,7	7,5	21,5	17	19,70	
03442		8		8,4	18,0		18,7	10,0			22,00	
03444		10		10,5	18,5		20,7	12,0			23,40	
03446		12		13,0	23,0		21,7	13,0			22,30	
03448		16		17,0	28,0		24,7	16,0			22,50	
03450	50f	6	11,2	6,4	22,0	14,8	17,9	7,5	24,5	20	29,00	
03452		8		8,4	22,0		19,9	10,0			31,50	
03454		10		10,5	22,0		21,9	12,0			33,00	
03456		12		13,0	23,0		22,9	13,0			33,80	
03458		16		17,0	28,0		25,9	16,0			35,70	
03460	70f	8	13,5	8,4	25,0	17,5	21,3	10,0	28,0	22	45,30	
03462		10		10,5	25,0		23,3	12,0			48,20	
03464		12		13,0	25,0		24,3	13,0			50,63	
03466		16		17,0	28,0		27,3	16,0			51,00	
03468		20		21,0	31,0		31,3	19,0			54,00	
03470	95f	10	15,5	10,5	29,0	20,0	25,0	12,0	32,0	25	75,00	
03472		12		13,0	29,0		26,0	13,0			72,20	
03474		16		17,0	29,0		28,5	16,0			75,00	
03476		20		21,0	35,0		32,5	19,0			77,00	
03480	120f	10	16,8	10,5	31,0	21,3	25,7	12,0	34,0	28	78,60	
03482		12		13,0	31,0		26,7	13,0			80,20	
03484		16		17,0	31,0		29,7	16,0			83,30	
03486		20		21,0	35,0		33,7	19,0			86,10	
03490	150f	10	19,0	10,5	35,0	24,0	27,0	12,0	34,8	29	100,60	
03492		12		13,0	35,0		28,0	13,0			107,00	
03494		16		17,0	35,0		31,0	16,0			110,40	
03496		20		21,0	35,0		35,0	19,0			119,60	
03497	185f	12	21,0	13,0	38,0	26,0	29,0	13,0	43,0	34	126,90	
03498		16		17,0	38,0		32,0	16,0			134,60	
03499		20		21,0	38,0		36,0	19,0			140,20	
03500	240f	12	24,0	13,0	43,0	30,0	31,0	13,0	51,0	41	199,20	
03501		16		17,0	43,0		34,0	16,0			209,00	
03502		20		21,0	43,0		38,0	19,0			218,10	
03504	300f	12	27,5	13,0	49,0	33,5	34,8	14,5	58,0	46	313,00	
03505		16		17,0	49,0						313,00	
03506		20		21,0	49,0						313,00	

12766 page no. 172; 12965S/, 12968 page no. 173; 14240/41 page no. 177; 12748 page no. 179; 13552 page no. 181; 13551/25, 13551/42, 13537 page no. 183; 12836, 12485-87, 05256 page no. 199; 12837 page no. 200; 12724 page no. 190

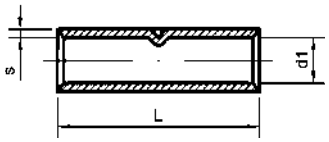
31460 page no. 169

30460 page no. 167; 12725 page no. 186

12374 page no. 162

Butt connectors 10f-240f mm²
for fine stranded cables

Material: Cu-HCP DIN EN 13600
Surface: tinned



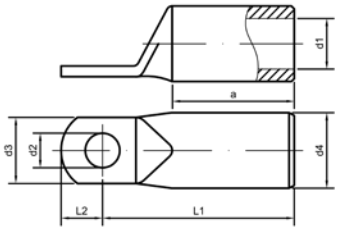
c UL us LISTED

E 485326 up to 240f

Part-No.	cross-section mm²	dimensions mm d1	L	s	weight kg/‰/pcs.	crimping-tools/page no.
03800	10 f	5,0	30	1,5	8,30	crimping-tools pages no. 162-200
03801	16 f	6,0	35	1,5	11,00	
03802	25 f	7,7	40	1,5	15,00	
03803	35 f	9,2	45	1,6	21,80	
03804	50 f	11,2	50	1,8	32,40	
03805	70 f	13,5	60	2,0	51,00	
03806	95 f	15,5	65	2,25	74,90	
03807	120 f	16,8	65	2,25	84,40	
03808	150 f	19,0	70	2,5	105,60	
03809	185 f	21,0	85	2,5	140,10	
03810	240 f	24,0	100	3,0	227,30	

Tubular cable lugs 35f-240f mm²
with narrow flange for fine stranded cables

Material: Cu-HCP DIN EN 13600
Surface: tinned



c UL us LISTED

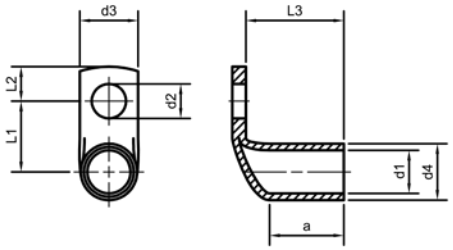
E 485326 up to 240f

Part-No.	cross-section mm²	drilling M	dimensions mm d1	d2	d3	d4	L1	L2	a	weight kg/‰ pcs.	crimping-tools/page no.
10850	35f	6	9,2	6,4	15	12,4	35,0	7,5	18	17,70	12930, 12933 page no. 171; 12728 page no. 188; 12869 page no. 162; 12766 page no. 172; 12965S/, 12968 page no. 173; 14240/41 page no. 177; 12748 page no. 179; 13552 page no. 181; 13551/25, 13551/42, 13537 page no. 183; 12836, 12485-87, 05256 page no. 199; 12837 page no. 200; 12724 page no. 190; 31460 page no. 169; 30460 page no. 167; 12725 page no. 186; 12374 page no. 162
10852	50f	6	11,0	6,4	15	14,8	38,5	7,5	21	26,90	
10853		8		8,4	17		41,0	10,0		30,00	
10854		10		10,5	19		45,5	12,0		33,10	
10855		12		13,0	19		46,5	13,0		33,10	
10856	70f	6	13,4	6,4	18	17,5	47,5	7,5	23	45,10	
10857		8		8,4	18		48,0	10,0		47,00	
10858		10		10,5	19		50,0	12,0		47,40	
10859		12		13,0	22		51,0	13,0		46,30	
10861	95f	6	14,9	6,4	19	20	50,0	7,5	26	59,50	
10862		8		8,4	19		51,0	10,0		62,90	
10863		10		10,5	19		53,5	12,0		65,40	
10864		12		13,0	22		55,0	13,0		65,50	
10866	120f	6	16,3	6,4	19	21,3	53,0	7,5	29	68,40	
10867		8		8,4	19		55,0	10,0		71,10	
10868		10		10,5	19		57,0	12,0		73,40	
10869		12		13,0	22		58,0	13,0		76,30	
10871	150f	6	18,7	6,4	26	24,0	56,0	7,5	30	85,70	
10872		8		8,4	26		58,0	10,0		91,80	
10873		10		10,5	26		60,0	12,0		97,30	
10874		12		13,0	26		59,5	13,0		93,90	
10875		16		17,0	26		62,5	16,0		105,00	
10876	185f	10	21,0	10,5	30	26,0	65,0	12,0	35	117,20	
10877		12		13,0	30		65,0	13,0		112,70	
10878		16		17,0	30		68,0	16,0		117,60	
10880	240f	10	23,5	10,5	30	30,0	76,0	12,0	42	185,90	
10881		12		13,0	30		79,0	13,0		200,80	
10882		16		17,0	30		81,0	16,0		202,30	

The dimensions of the cable lugs are coordinated with the dimensions of our fine stranded ropes and silicone insulated leadings. In conjunction with such leadings it is possible to realize connetions also under cramped conditions. Cable lugs with narrow flange for normal stranded cables are described on page 44.

Tubular cable lugs 35f-240f mm²
with narrow flange for fine stranded cables

Angle type 90°
Material: Cu-HCP DIN EN 13600
Surface: tinned



c UL us LISTED

E 485326 up to 240f

Part-No.	cross-section mm²	drilling M	dimensions mm d_1	d_2	d_3	d_4	L_1	L_2	L_3	a	weight kg/‰/pcs.	crimping-tools/page no.
03960	35f	6	9,2	6,4	15	12,4	16,7	7,5	21,5	17	18,00	
03961	50f	6	11,0	6,4	15	14,8	17,9	7,5	24,5	20	26,00	
03962		8		8,4	17		19,9	10,0			29,00	
03963		10		10,5	19		21,9	12,0			30,00	
03964	70f	6	13,4	6,4	18	17,5	20,0	7,5	31,0	22	43,00	
03965		8		8,4	18		22,0	10,0			45,00	
03966		10		10,5	19		24,0	12,0			48,00	
03967		12		13,0	22		27,0	13,0			48,00	
03968	95f	6	14,9	6,4	19	20,0	21,0	7,5	34,0	25	64,00	
03969		8		8,4	19		23,0	10,0			67,00	
03970		10		10,5	19		25,0	12,0			70,00	
03971		12		13,0	22		26,0	13,0			69,00	
03972	120f	6	16,3	6,4	19	21,3	21,7	7,5	37,0	28	73,00	
03973		8		8,4	19		23,7	10,0			77,00	
03974		10		10,5	19		25,7	12,0			79,00	
03975		12		13,0	22		26,7	13,0			78,00	
03976	150f	6	18,7	6,4	26	24,0	23,0	7,5	37,5	29	92,00	
03977		8		8,4	26		25,0	10,0			98,00	
03978		10		10,5	26		27,0	12,0			99,60	
03979		12		13,0	26		28,0	13,0			102,00	
03980		16		17,0	26		31,0	16,0			105,00	
03981	185f	10	21,0	10,5	30	26,0	28,0	12,0	43,0	34	119,00	
03982		12		13,0	30		29,0	13,0			119,00	
03983		16		17,0	30		32,0	16,0			123,00	
03984	240f	10	23,5	10,5	30	30,0	30,0	12,0	50,0	41	186,00	
03985		12		13,0	30		31,0	13,0			187,00	
03986		16		17,0	30		34,0	16,0			192,00	

crimping-tools pages no. 162-200

The dimensions of the cable lugs are coordinated with the dimensions of our fine stranded ropes and silicone insulated leadings. In conjunction with such leadings it is possible to realize connetions also under cramped conditions.

In comparison cable lugs with narrow flange with cable lugs in standard- or Euro-type design

The use of cable lugs with a narrow flange realize connections and an installation also into smaller places. In combination with our highly flexible silicone insulated leadings according to the following page 40 they offer excellent solutions for high current connections inside of small switch gears or similar application.

Silicone insulated copper cables 4-300 mm² 1,8/3 kV, single insulated

highly flexible, free of halogen, self-extinguishing, with UL-Style

- **Highest flexibility for high current transfer**
- **Crimped with our cable lugs with smaller flange acc. to the catalogue pages 38 + 39 well suited for installation works in confined spaces**
- **With reinforced insulation, mechanically stable and stress resistant**
- **Free of halogen and self-extinguishing**
- **Temperature resistant - 50 °C up to + 180 °C shortly up to + 250 °C up to + 300 °C**
- **Testing voltage 10 kV (Sparktest)**
- **Dielectric strength 20 kV/mm**
- **Short circuit resistance SiR + 350° C**
- **Approvals and fire tests**
  UL-Style 3858
  DIN EN 60332-1-2/VDE 0482-332-1-2
  DIN EN 60332-3-24/VDE 0482-332-3-24
  DIN EN 61034-2/VDE 0482-1034-2
  DIN EN 50305/VDE 0260-305 section 9.2
- **Delivery: Optionally in rings, on spools or wooden drums**

		Technical data								
			Dimensions mm			Current load in dependence of the conductor heat in °C				
	Part-No.	Cross-section mm²	Diameter and No. of wires	Outer-Ø ca.	Insulation thickness ca.	45 °C	80 °C	**90 °C**	100 °C	130 °C
1,8/3 kV, single insulated	**15014**	4,0	1036 x 0,07	4,8	1,1	30 A	50 A	**55 A**	60 A	70 A
	15016	6,0	1568 x 0,07	5,6	1,1	40 A	65 A	**70 A**	78 A	90 A
	15020	10,0	2562 x 0,07	8,5	2,0	50 A	90 A	**98 A**	107 A	120 A
	15022	16,0	4116 x 0,07	10,0	2,0	70 A	125 A	**132 A**	143 A	160 A
	15024	25,0	3234 x 0,10	12,0	2,3	95 A	160 A	**176 A**	187 A	215 A
	15026	35,0	4508 x 0,10	13,8	2,5	115 A	200 A	**218 A**	230 A	260 A
	15028	50,0	6468 x 0,10	15,5	2,5	145 A	245 A	**276 A**	287 A	325 A
	15030	70,0	8967 x 0,10	18,0	2,5	175 A	305 A	**347 A**	352 A	400 A
	15032	95,0	12201 x 0,10	20,0	2,5	215 A	370 A	**416 A**	425 A	485 A
	15034	120,0	15435 x 0,10	21,5	2,5	245 A	425 A	**488 A**	495 A	560 A
	15036	150,0	19404 x 0,10	23,5	2,5	285 A	490 A	**566 A**	575 A	640 A
	15038	185,0	23580 x 0,10	26,0	2,5	320 A	555 A	**644 A**	655 A	730 A
	15040	240,0	30600 x 0,10	28,5	2,5	380 A	650 A	**775 A**	790 A	855 A
	15042	300,0	38200 x 0,10	32,5	2,5	435 A	750 A	**898 A**	915 A	985 A

Remark: All information about current load are approximate values in consideration of the cables heat for single laying of air cooled cables and ambient temperature + 30 °C. The values of a conductor heat of + 90 °C are in accordance with VDE 0298 part 4 table 15. By changing the ambient temperature or the kind of laying reducing factors are to be considered. Nature colour is standard but on request it is also possible to manufacture cables with colours like black, red, blue, yellow/green etc. or with reduced insulation thickness and other operating voltages. Minimum quantity on request. The outside diameter of our highly flexible copper conductors are manufactured in consideration with cable lugs acc. to DIN 46234/DIN 46341 and druseidt tubular cable lugs for fine stranded cables.

1. ELECTRICAL CONNECTION- AND INSTALLATION TECHNIQUE

1.5 Uninsulated tubular cable lugs and connectors, druseidt EURO-design

Caused by the fact that the German DIN-standardization for cable lugs and connectors cannot cover the whole range of electrical leadings and cables on the market, with their various kinds of conductor constructions and strandings, it is not possible to create an official standard for all designs.

Therefore different designs acc. to the specifications of the cable lug manufacturers have been established on the market. To activate as much as possible customers, druseidt offers, additionally to his approved cable lugs in standard design, a new so called Euro-design with changed tube dimension in the cross-section range of 6-120 mm^2. So it is possible to cover an additional section of cable lugs circulating in the market. Now customers, owning only tools for connectors acc. to the Euro-design, can buy the cable lugs by our company without making any changes in their tool assortment.

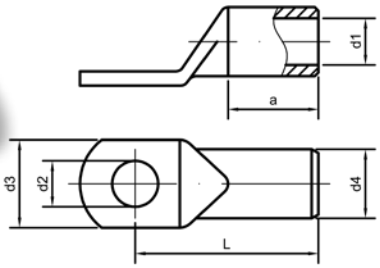
Cable lugs and connectors in Euro-design are deliverable in straight as well as different angled - or designs with narrow flange. We recommend to compress cable lugs in Euro-design with a WM-crimping. Suitable tools and compression die-sets especially for connectors acc. to the Euro-design, are described on the catalogue pages 159 ff.

Please notice, that the crimping procedures will be done only with the right tools in combination with the right compression dies suitable for cable lugs and connectors in Euro-design.

Crimping design:
WM-crimping

Tubular cable lugs 0,5-50 mm²
druseidt Euro-Series

Material: Cu-HCP DIN EN 13600
Surface: tinned



c UL us LISTED

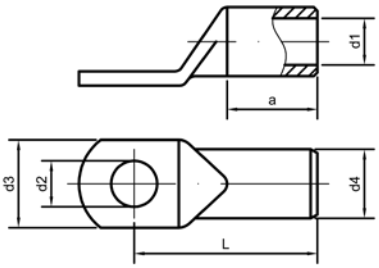
E 485326 from 6 mm²

Part-No. without inspection hole	Part-No. with inspection hole	cross-section mm²	drilling M	dimensions mm d_1	d_2	d_3	d_4	L	a	weight kg/‰ pcs.	crimping-tools/page no.
01580	-	0,5 - 0,75	3	1,4	3,2	6,5	3,0	12,5	6,0	0,71	30445 0,75-10 mm², 30446 1,5-16 mm² page no. 160
01581	-		4		4,3	8,5		14,0		0,80	
01582	-		5		5,3	10,0		15,0		1,00	
01583	-	1,0 - 1,5	3	1,9	3,2	6,5	3,9	14,0	6,0	1,20	
01584	-		4		4,3	8,5		15,0		1,40	
01585	-		5		5,3	10,0		16,0		1,50	
01586	-		6		6,4	11,0		18,0		1,70	
01588	-	2,5	4	2,4	4,3	8,5	4,4	15,0	6,5	1,57	
01589	-		5		5,3	10,0		16,0		1,72	
01590	-		6		6,4	11,0		18,0		1,92	
01591	-		8		8,4	13,0		20,0		2,20	
01592	-	4	4	3,0	4,3	8,5	5,0	17,0	8,0	2,20	
01593	-		5		5,3	10,0		18,0		2,40	
01594	-		6		6,4	11,0		20,0		2,60	
01595	-		8		8,4	14,0		22,0		3,00	
03196	**03196/S**	6	4	3,5	4,3	10,0	6,5	19,0	9,0	4,60	12372/50, 12372 page no. 161; 12655 page no. 165
03197	**03197/S**		5		5,3	10,0		20,0		4,70	
03198	**03198/S**		6		6,4	11,0		21,5		5,40	
03199	**03199/S**		8		8,4	15,0		24,0		5,90	
03200	**03200/S**		10		10,5	18,0		26,0		6,40	
03201	**03201/S**		12		13,0	19,0		27,5		6,40	
03202	**03202/S**	10	4	4,5	4,3	12,0	7,0	20,0	10,0	4,30	12373 page no. 161; 30460 page no. 167; 31460 page no. 169; 12930, 12933 page no. 171; 12766 page no. 172; 12965/S, 12968 page no. 173; 14240/41 page no. 177; 12748 page no. 179; 13552 page no. 181; 13551/25, 13551/42, 13537 page no. 183; 12725 page no. 186; 12728 page no. 188; 12836, 12485-87, 05256 page no. 199; 12837 page no. 200, 12869 page no. 162, 12724 page no. 190
03203	**03203/S**		5		5,3	12,0		21,0		4,90	
03204	**03204/S**		6		6,4	12,0		22,5		5,10	
03205	**03205/S**		8		8,4	15,0		25,0		5,80	
03206	**03206/S**		10		10,5	18,0		27,0		6,30	
03207	**03207/S**		12		13,0	20,0		28,5		6,30	
03208	**03208/S**	16	4	5,5	4,3	12,0	8,5	24,0	13,0	8,20	
03209	**03209/S**		5		5,3	12,0		25,0		8,80	
03210	**03210/S**		6		6,4	12,0		26,5		9,60	
03211	**03211/S**		8		8,4	15,0		29,0		10,30	
03212	**03212/S**		10		10,5	18,0		31,0		11,00	
03213	**03213/S**		12		13,0	19,0		32,0		10,80	
03214	**03214/S**	25	5	7,0	5,3	15,0	10,0	33,5	15,0	13,50	
03215	**03215/S**		6		6,4	15,0		31,5		13,10	
03216	**03216/S**		8		8,4	16,0		33,0		12,90	
03217	**03217/S**		10		10,5	18,0		34,5		14,60	
03218	**03218/S**		12		13,0	20,0		36,0		15,50	
03219	**03219/S**		14		15,0	22,0		39,0		16,60	
03220	**03220/S**		16		17,0	24,0		42,0		16,00	
03221	**03221/S**	35	6	8,5	6,4	17,0	12,0	33,0	17,0	20,70	
03222	**03222/S**		8		8,4	17,0		34,0		21,80	
03223	**03223/S**		10		10,5	20,0		36,5		21,90	
03224	**03224/S**		12		13,0	22,0		37,5		23,30	
03225	**03225/S**		14		15,0	23,0		40,0		24,40	
03226	**03226/S**		16		17,0	28,0		44,0		26,00	
03227	**03227/S**	50	6	10,0	6,4	20,0	14,0	37,0	19,0	30,10	
03228	**03228/S**		8		8,4	20,0		39,0		30,40	
03229	**03229/S**		10		10,5	20,0		40,5		31,30	
03230	**03230/S**		12		13,0	23,0		42,0		31,30	
03231	**03231/S**		14		15,0	23,0		44,0		35,10	
03232	**03232/S**		16		17,0	27,0		46,0		35,50	
03233	**03233/S**		20		21,0	30,5		52,5		38,90	

The dimensions of the Euro-series and the druseidt standard design according to catalogue page 30 are in the cross section range of 0,5-4 mm² identically constructed.

Tubular cable lugs 70-630 mm²
druseidt Euro-Series

Material: Cu-HCP DIN EN 13600
Surface: tinned



c UL us LISTED

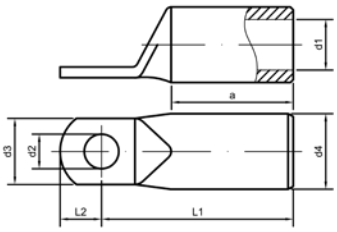
E 485326 up to 500 mm²

Part-No. without inspection hole	Part-No. with inspection hole	cross-section mm²	drilling M	dimensions mm d1	d2	d3	d4	L	a	weight kg/‰ pcs.	crimping-tools/page no.
03234	**03234/S**	70	6	12,0	6,4	24,0	16,5	40,5	21	41,10	05256 page no. 199; 12766 page no. 172; 12965/S, 12968 page no. 173; 14240/41 page no. 177; 12748 page no. 179; 13552 page no. 181; 13551/25, 13551/42, 13537 page no. 183; 12836, 12485-87 page no. 199; 12837 page no. 200, 12724 page no. 190; 31460 page no. 169; 12930, 12933 page no. 171; 12728 page no. 188; 12869 page no. 162; 12373 page no. 161; 30460 page no. 167; 12725 page no. 186
03235	**03235/S**		8		8,4	24,0		42,5		44,60	
03236	**03236/S**		10		10,5	24,0		43,5		46,40	
03237	**03237/S**		12		13,0	24,0		45,0		46,40	
03238	**03238/S**		14		15,0	25,0		46,0		49,10	
03239	**03239/S**		16		17,0	28,0		48,5		49,60	
03240	**03240/S**		20		21,0	29,0		52,0		51,80	
03241	**03241/S**	95	6	13,5	6,4	26,0	18,0	43,0	23	49,50	
03242	**03242/S**		8		8,4	26,0		46,0		53,60	
03243	**03243/S**		10		10,5	26,0		47,0		55,10	
03244	**03244/S**		12		13,0	26,0		48,0		53,50	
03245	**03245/S**		14		15,0	26,0		51,5		58,90	
03246	**03246/S**		16		17,0	28,0		51,0		59,70	
03247	**03247/S**		20		21,0	30,0		55,0		61,30	
03248	**03248/S**	120	8	15,0	8,4	29,0	20,0	49,5	26	68,80	
03249	**03249/S**		10		10,5	29,0		52,0		74,20	
03250	**03250/S**		12		13,0	29,0		51,5		78,40	
03251	**03251/S**		14		15,0	30,0		53,0		79,90	
03252	**03252/S**		16		17,0	30,0		55,0		80,70	
03253	**03253/S**		20		21,0	35,0		60,0		89,00	
03254	**03254/S**	150	8	16,8	8,4	31,0	21,3	55,5	29	78,90	
01634	**01714**		10		10,5	31,0		56,5		81,90	
01635	**01715**		12		13,0	31,0		56,0		80,70	
10149	**10174**		14		15,0	31,0		57,0		80,00	
01636	**01716**		16		17,0	31,0		58,0		83,60	
01637	**01717**		20		21,0	35,0		63,0		87,50	
10145	**10175**	185	10	19,0	10,5	35,0	24,0	59,0	30	106,10	
01638	**01718**		12		13,0	35,0		58,5		106,00	
10151	**10176**		14		15,0	35,0		61,0		107,20	
01639	**01719**		16		17,0	35,0		63,0		108,60	
01640	**01720**		20		21,0	35,0		66,0		113,30	
10152	**10177**	240	10	21,0	10,5	38,0	26,0	67,0	35	129,70	
01641	**01721**		12		13,0	38,0		67,0		130,20	
10153	**10178**		14		15,0	38,0		69,0		133,60	
01642	**01722**		16		17,0	38,0		69,5		138,40	
01643	**01723**		20		21,0	38,0		71,0		138,00	
01644	**01724**	300	12	24,0	13,0	44,0	30,0	82,0	42	217,20	
10154	**10190**		14		15,0	44,0		84,0		221,90	
01645	**01725**		16		17,0	44,0		85,0		219,40	
01646	**01726**		20		21,0	44,0		85,0		229,20	
10155	-	400	10	27,5	10,5	49,0	33,5	92,0	47	279,00	
10150	-		12		13,0	49,0		92,0		279,00	
01647	-		16		17,0	49,0		92,0		279,00	
01648	-		20		21,0	49,0		92,0		281,90	
01649	-	500	16	31,0	17,0	55,5	38,0	113,0	70	493,80	
01650	-		20		21,0	55,5		113,0		485,60	
01651	-	630	16	34,0	17,0	60,0	41,0	115,0	70	513,50	
01652	-		20		21,0	60,0		115,0		506,00	

The dimensions of the Euro-Series and the druseidt standard design according to catalogue page 31 are in the cross section range of 150-630 mm² identically constructed.

Tubular cable lugs 35-300 mm²
with narrow flange
druseidt Euro-Series

Material: Cu-HCP DIN EN 13600
Surface: tinned



c UL us LISTED

E 485326

Part-No.	cross-section mm²	drilling M	dimensions mm d1	d2	d3	d4	L1	L2	a	weight kg/‰ pcs.	crimping-tools/page no.
03900	35	6	8,5	6,4	15	12,0	33,0	7,5	17	18,00	12766 page no. 172; 12965/S, 12968 page no. 173; 14240/41 page no. 177; 12748 page no. 179; 13552 page no. 181; 13551/25, 13551/42, 13537 page no. 183; 12836, 12485-87, 05256 page no. 199; 12837 page no. 200; 12724 page no. 190
03901		8		8,4	15		35,0	10,0		21,60	
03902	50	6	10,0	6,4	15	14,0	37,0	7,5	19	27,30	
03903		8		8,4	17		39,0	10,0		28,30	
03904		10		10,5	17		41,0	12,0		29,90	
03905	70	6	11,8	6,4	17	16,5	41,0	7,5	21	40,60	
03906		8		8,4	17		43,0	10,0		43,00	
03907		10		10,5	17		45,0	12,0		44,00	
03908		12		13,0	19		46,0	13,0		44,80	
03909	95	6	13,5	6,4	19	18,0	43,0	7,5	23	46,70	
03910		8		8,4	19		45,0	10,0		49,00	
03911		10		10,5	19		47,0	12,0		51,00	
03912		12		13,0	19		48,0	13,0		52,00	
03913	120	6	14,7	6,4	20	20,0	49,0	7,5	26	64,30	
03914		8		8,4	20		51,0	10,0		67,30	
03915		10		10,5	20		53,0	12,0		67,00	
03916		12		13,0	20		54,0	13,0		73,40	
03917	150	6	16,3	6,4	19	21,3	53,0	7,5	29	70,10	
03918		8		8,4	19		55,0	10,0		73,10	
03919		10		10,5	19		56,0	12,0		76,30	
03920		12		13,0	22		59,0	13,0		76,30	
03921	185	10	18,7	10,5	26	24,0	60,0	12,0	30	104,70	
03922		12		13,0	26		59,5	13,0		103,60	
03923		16		17,0	26		64,0	16,0		111,40	
03924	240	10	21,0	10,5	30	26,0	65,0	12,0	35	119,50	
03925		12		13,0	30		65,0	13,0		121,90	
03926		16		17,0	30		68,0	16,0		122,60	
03927	300	10	23,5	10,5	30	30,0	76,0	12,0	42	196,60	
03928		12		13,0	30		79,0	13,0		200,80	
03929		16		17,0	30		81,0	16,0		206,00	

Designs with inspection hole or 90° angled on request.

12372/50,no.161
12655,no.165

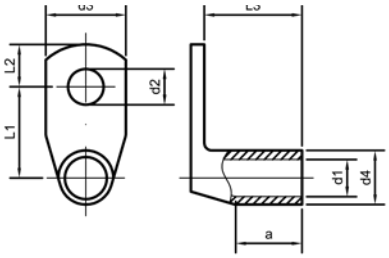
12372 page no. 161

12373 page no. 161; 30460 page no. 167; 12725 page no. 186

31460 page no. 169; 12930, 12933 page no. 171; 12728 page no. 188, 12869 page no. 162

Tubular cable lugs 0,5-35 mm²
Angle type 90°
druseidt Euro-Series

Material: Cu-HCP DIN EN 13600
Surface: tinned



c UL us LISTED

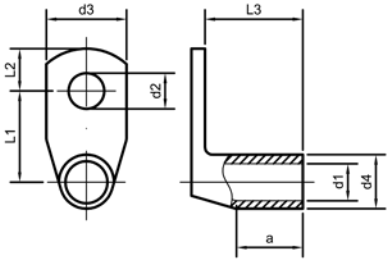
E 485326 from 6 mm²

Part-No.	cross-section mm²	drilling M	dimensions mm d_1	d_2	d_3	d_4	L_1	L_2	L_3	a	weight kg/‰ pcs.	crimping-tools/page no.
10400	0,5 - 0,75	3	1,4	3,2	6,5	3,0	7,5	4,0	9,5	5,0	0,90	30445 0,75-10 mm², 30446 1,5-16 mm² page no. 160; 12372/50, 12372 page no. 161; 12655 page no. 165; 12373 page no. 161; 30460 page no. 167; 31460 page no. 169; 12930, 12933 page no. 171; 12766 page no. 172; 12965/S, 12968 page no. 173; 14240/41 page no. 177; 12748 page no. 179; 13552 page no. 181; 13551/25, 13551/42, 12537 page no. 183; 12725 page no. 186; 12728 page no. 188; 12836, 12485-87, 05256 page no. 199; 12837 page no. 200; 12724 page no. 190, 12869 page no. 162
10402		4		4,3	8,5		8,5	5,0			1,00	
10404		5		5,3	10,0		9,5	5,5			1,00	
10406	1,0 - 1,5	3	1,9	3,2	6,5	3,9	8,0	4,0	9,5	5,0	1,60	
10408		4		4,3	8,5		9,0	5,0			1,60	
10410		5		5,3	10,0		10,0	5,5			1,60	
10412		6		6,4	11,0		12,0	7,5			1,60	
10414	2,5	4	2,4	4,3	8,5	4,4	9,2	5,0	9,5	5,5	1,83	
10416		5		5,3	10,0		10,2	5,5			1,84	
10418		6		6,4	11,0		12,2	7,5			2,20	
10420		8		8,4	14,0		14,2	10,0			2,30	
10422	4	4	3,0	4,3	8,5	5,0	9,5	5,0	10,5	7,0	2,50	
10424		5		5,3	10,0		10,5	5,5			2,41	
10426		6		6,4	11,0		12,5	7,5			2,90	
10428		8		8,4	14,0		14,5	10,0			3,00	
03815	6	4	3,5	4,3	10,0	6,5	10,3	5,0	13,5	8,0	6,00	
03816		5		5,3	11,0		11,2	5,5			5,60	
03817		6		6,4	11,0		13,3	7,5			6,20	
03818		8		8,4	15,0		15,3	10,0			6,40	
03819		10		10,5	18,0		17,2	12,0			6,80	
03820		12		13,0	20,0		18,2	13,0			6,60	
03821	10	5	4,5	5,3	12,0	7,0	11,5	5,5	15,0	9,0	5,40	
03822		6		6,4	12,0		12,5	7,5			5,90	
03823		8		8,4	15,0		15,5	10,0			6,70	
03824		10		10,5	18,0		17,5	12,0			7,00	
03825		12		13,0	20,0		18,5	13,0			7,00	
03826	16	5	5,5	5,3	12,0	8,5	13	5,5	21,0	12,0	10,70	
03827		6		6,4	12,0		14,3	7,5			11,50	
03828		8		8,4	15,0		16,3	10,0			12,00	
03829		10		10,5	18,0		18,3	12,0			12,30	
03830		12		13,0	20,0		19,3	13,0			12,30	
03831	25	6	7,0	6,4	15,0	10,0	15,5	7,5	18,0	14,0	13,50	
03832		8		8,4	16,0		17,5	10,0			14,30	
03833		10		10,5	18,0		19,5	12,0			16,80	
03834		12		13,0	20,0		20,5	13,0			15,10	
03835		14		15,0	22,0		22,5	15,0			16,90	
03836	35	6	8,5	6,4	17,0	12,0	16,5	7,5	19,5	16,0	21,00	
03837		8		8,4	17,0		18,5	10,0			23,10	
03838		10		10,5	20,0		20,5	12,0			23,60	
03839		12		13,0	22,0		21,5	13,0			23,70	
03840		14		15,0	23,0		23,5	15,0			24,80	
03841		16		17,0	28,0		24,5	16,0			24,80	

The dimensions of the Euro-Series and the druseidt standard design according to catalogue page 32 are in the cross section range of 0,5-4 mm² identically constructed.

Tubular cable lugs 50-300 mm²
Angle type 90°
druseidt Euro-Series

Material: Cu-HCP DIN EN 13600
Surface: tinned



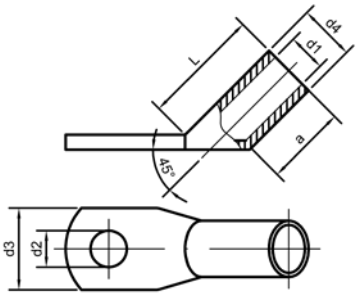
c UL us LISTED
E 485326

Part-No.	cross-section mm²	drilling M	dimensions mm d_1	d_2	d_3	d_4	L_1	L_2	L_3	a	weight kg/‰ pcs.	crimping-tools/page no.
03842	50	6	10,0	6,4	20	14,0	17,5	7,5	21,5	18	30,00	12869 page no. 162; 12836, 12485-87, 05256 page no. 199; 12837 page no. 200; 12748 page no. 179; 13552 page no. 181; 13551/25, 13551/42, 13537 page no. 183; 12728 page no. 188; 31460 page no. 169; 12930, 12933 page no. 171; 12766 page no. 172; 12965/S, 12968 page no. 173; 14240/41 page no. 177; 12373 page no. 161; 30460 page no. 167; 12725 page no. 186; 12372 page no. 161; 12372/50 page no. 161; 12655 page no. 165
03843		8		8,4	20		19,5	10,0			32,20	
03844		10		10,5	20		21,5	12,0			33,20	
03845		12		13,0	23		22,5	13,0			32,80	
03846		14		15,0	23		24,5	15,0			33,70	
03847		16		17,0	27		28,5	16,0			36,30	
03848		20		21,0	30		32,5	19,0			38,90	
03849	70	6	12,0	6,4	24	16,5	18,8	7,5	26,0	20	44,10	
03850		8		8,4	24		20,8	10,0			49,20	
03851		10		10,5	24		22,8	12,0			50,60	
03852		12		13,0	24		23,8	13,0			48,70	
03853		14		15,0	25		25,8	15,0			48,40	
03854		16		17,0	28		26,8	16,0			51,10	
03855		20		21,0	29		30,8	19,0			52,60	
03856	95	8	13,5	8,4	26	18,0	21,5	10,0	26,4	22	53,30	
03857		10		10,5	26		23,5	12,0			55,90	
03858		12		13,0	26		24,5	13,0			55,30	
03859		14		15,0	26		26,5	15,0			58,90	
03860		16		17,0	28		27,5	16,0			60,00	
03861	120	8	15,0	8,4	29	20,0	22,5	10,0	32,0	25	76,30	
03862		10		10,5	29		24,5	12,0			80,70	
03863		12		13,0	29		25,5	13,0			80,10	
03864		16		17,0	30		28,5	16,0			84,60	
03865	150	8	16,8	8,4	31	21,3	25,7	10,0	34,0	28	80,30	
03866		10		10,5	31		25,7	12,0			80,70	
03867		12		13,0	31		26,7	13,0			82,90	
03868		16		17,0	31		29,7	16,0			85,00	
03869		20		21,0	35		33,7	19,0			88,90	
03870	185	10	19,0	10,5	35	24,0	27,0	12,0	42,0	29	114,10	
03871		12		13,0	35		28,0	13,0			120,40	
03872		16		17,0	35		31,0	16,0			124,80	
03873		20		21,0	35		35,0	19,0			127,00	
03874	240	10	21,0	10,5	38	26,0	28,0	12,0	44,0	34	133,20	
03875		12		13,0	38		29,0	13,0			132,80	
03876		16		17,0	38		32,0	16,0			137,80	
03877		20		21,0	38		36,0	19,0			141,50	
01838	300	12	24,0	13,0	43	30,0	31,0	13,0	51,0	41	199,20	
01840		16		17,0	43		34,0	16,0			209,00	
01842		20		21,0	43		38,0	19,0			218,10	

The dimensions of the Euro-Series and the druseidt standard design according to catalogue page 33 are in the cross section range of 300 mm² identically constructed.

Tubular cable lugs 10-300 mm²
Angle type 45°
druseidt Euro-Series

Material: Cu-HCP DIN EN 13600
Surface: tinned



c UL us LISTED
E 485326

Part-No.	cross-section mm²	drilling M	dimensions mm d1	d2	d3	d4	L	a	weight kg/‰ pcs.	crimping-tools/page no.
03821/S-45	10	5	4,5	5,3	12	7,0	13,5	9	5,50	12766 page no. 172; 12965/S, 12968 page no. 173; 14240/41 page no. 177; 12748 page no. 179; 13552 page no. 181; 13551/25, 13551/42, 13537 page no. 189; 12836, 12485-87, 05256 page no. 199; 12837 page no. 200 / 31460 page no. 169; 12930, 12933 page no. 171; 12728 page no. 188, 12869 page no. 162 / 12373 page no. 161; 30460 page no. 167; 12725 page no. 186 / 12372 page no. 161 / 12372/50 page no. 161; 12655 page no. 165 / 30446 page no. 160 / 30445p.no.160
03822/S-45		6		6,4	12		13,5		5,80	
03823/S-45		8		8,4	15		13,8		6,50	
03824/S-45		10		10,5	18		13,8		6,60	
03826/S-45	16	5	5,5	5,3	12	8,5	17,5	12	9,50	
03827/S-45		6		6,4	12		17,5		10,20	
03828/S-45		8		8,4	15		17,7		11,70	
03829/S-45		10		10,5	18		18,0		11,70	
03831/S-45	25	6	7,0	6,4	15	10,0	20,7	14	13,90	
03832/S-45		8		8,4	16		20,9		15,10	
03833/S-45		10		10,5	18		21,1		16,60	
03834/S-45		12		13,0	20		21,2		17,00	
03836/S-45	35	6	8,5	6,4	17	12,0	24,2	16	21,70	
03837/S-45		8		8,4	17		24,2		22,30	
03838/S-45		10		10,5	20		24,5		23,40	
03839/S-45		12		13,0	22		24,7		24,00	
03842/S-45	50	6	10,0	6,4	20	14,0	27,7	18	29,40	
03843/S-45		8		8,4	20		27,7		33,40	
03844/S-45		10		10,5	20		27,7		36,50	
03845/S-45		12		13,0	23		28,1		36,50	
03850/S-45	70	8	12,0	8,4	24	16,5	31,9	20	49,00	
03851/S-45		10		10,5	24		33,0		52,30	
03852/S-45		12		13,0	24		31,9		51,70	
03856/S-45	95	8	13,5	8,4	26	18,0	35,5	22	63,20	
03857/S-45		10		10,5	26		35,0		62,00	
03858/S-45		12		13,0	26		35,5		62,00	
03859/S-45		16		17,0	28		35,5		68,00	
03861/S-45	120	8	15,0	8,4	29	20,0	40,1	25	78,00	
03862/S-45		10		10,5	29		40,1		89,00	
03863/S-45		12		13,0	29		40,1		89,10	
03864/S-45		16		17,0	30		40,2		93,10	
03865/S-45	150	8	16,8	8,4	31	21,3	47,5	28	102,00	
03866/S-45		10		10,5	31		47,5		98,00	
03867/S-45		12		13,0	31		47,5		96,80	
03868/S-45		16		17,0	31		47,5		101,20	
03869/S-45		20		21,0	35		48,2		101,20	
01831/S-45	185	12	19,0	13,0	35	24,0	51,0	29	122,90	
01832/S-45		16		17,0	35		51,0		119,60	
01833/S-45		20		21,0	35		51,0		139,90	
01834/S-45	240	12	21,0	13,0	38	26,0	61,0	34	154,60	
01835/S-45		16		17,0	38		61,0		165,10	
01836/S-45		20		21,0	38		61,0		170,40	
03880/S-45	300	16	24,0	17,0	43	30,0	69,0	41	256,80	
03881/S-45		20		21,0	43				273,00	

The dimensions of the Euro-Series and the druseidt standard design according to catalogue page 33 are in the cross section range of 185 and 240 mm² identically constructed.