

Tubular cable lugs, standard series

HUPtype

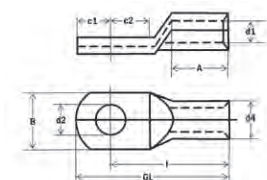
- For stranded round shaped conductors e.g. VDE 0295 class 2
- For preround sector shaped conductors • Annealed material for easier crimping
- Material: 99.9% electrolytic copper E-CU DIN 40500 • Surface: tin-plated
- Vibration and shock proofing DIN EN 61373:1999-11, Cat. 1, Cl. B



Cu

available with and without sight hole e.g. 29 09 00/S (add xx xx xx/s when ordering)

Art. no.	CSS	M	d2	d1	d4	A	v1	v2	l	B	c1	c2	kg/100	PU	PU
290900	0,75	3	3,2	1,3	2,8	6,0	1	-	12,0	6,0	3,25	4,0	0,073	2000	100
290902		4	4,3	1,3	2,8	6,0	1	-	13,0	6,5	4,0	5,0	0,064	2000	100
290904	1,5	3	3,2	1,8	3,3	6,0	1	-	12,0	6,5	3,25	4,0	0,060	2000	100
290906		4	4,3	1,8	3,3	6,0	1	-	13,0	6,5	4,0	5,0	0,066	2000	100
290908		5	5,3	1,8	3,3	6,0	1	-	14,0	7,5	4,75	5,5	0,087	2000	100
290910		6	6,5	1,8	3,3	6,0	1	-	16,0	9,0	6,5	6,5	0,097	2000	100
290912	2,5	3	3,2	2,3	4,2	6,0	1	-	12,0	7,5	3,25	4,0	0,103	2000	100
290914		4	4,3	2,3	4,2	6,0	1	-	13,0	7,5	4,0	5,0	0,112	2000	100
290916		5	5,3	2,3	4,2	6,0	1	-	14,0	8,5	4,75	5,5	0,121	2000	100
290918		6	6,5	2,3	4,2	6,0	1	-	16,0	9,5	6,5	6,5	0,143	2000	100
290920		8	8,5	2,3	4,2	6,0	1	-	20,0	13,0	7,75	9,5	0,151	2000	100
290922	4	4	4,3	3,0	5,0	8,0	1	-	17,0	8,5	4,75	5,5	0,200	2000	100
290924		5	5,3	3,0	5,0	8,0	1	-	17,0	9,0	4,75	6,0	0,161	2000	100
290926		6	6,5	3,0	5,0	8,0	1	-	19,0	10,0	6,5	6,5	0,220	2000	100
290928		8	8,5	3,0	5,0	8,0	1	-	22,0	13,0	8,5	9,5	0,300	2000	100
290930	6	4	4,3	3,5	6,5	9,0	1	-	18,0	8,5	5,0	5,5	0,452	1800	100
290932		5	5,3	3,5	6,5	9,0	1	-	21,0	10,0	6,5	7,5	0,475	1800	100
290934		6	6,5	3,5	6,5	9,0	1	-	21,0	12,0	6,5	7,5	0,400	1400	100
290936		8	8,5	3,5	6,5	9,0	1	-	23,0	15,0	10,0	10,0	0,500	1400	100
290938	10	5	5,3	4,5	7,0	10,0	1	-	22,0	12,0	6,5	7,5	0,400	1000	100
290940		6	6,5	4,5	7,0	10,0	1	-	22,0	12,0	6,5	7,5	0,400	1000	100
290942		8	8,5	4,5	7,0	10,0	1	-	25,0	15,0	10,0	10,0	0,540	800	100
290944		10	10,5	4,5	7,0	10,0	1	-	27,0	17,0	12,0	12,0	0,573	600	100
290946		12	13,0	4,5	7,0	10,0	1	-	29,0	19,0	13,0	13,0	0,600	600	100
290948	16	5	5,3	5,5	8,5	13,0	1	1	26,0	12,0	5,5	6,5	0,800	600	100
290950		6	6,5	5,5	8,5	13,0	1	1	27,0	12,0	6,25	7,5	0,700	600	100
290952		8	8,5	5,5	8,5	13,0	1	1	29,0	15,0	8,5	9,5	0,800	400	100
290954		10	10,5	5,5	8,5	13,0	1	1	31,0	17,0	10,5	11,5	0,950	400	100
290956		12	13,0	5,5	8,5	13,0	1	1	33,0	19,0	12,0	13,0	1,000	400	100
290958	25	6	6,5	7,0	10,0	15,0	2	1	30,0	14,0	7,5	7,5	1,100	400	50
290960		8	8,5	7,0	10,0	15,0	2	1	32,0	16,0	10,0	10,0	1,200	400	50
290962		10	10,5	7,0	10,0	15,0	2	1	34,0	18,0	12,0	12,0	1,200	300	50
290964		12	13,0	7,0	10,0	15,0	2	1	35,0	19,0	13,0	13,0	1,300	300	50
290966	35	6	6,5	8,5	12,0	17,0	2	1	32,0	17,0	7,5	7,5	1,900	240	40
290968		8	8,5	8,5	12,0	17,0	2	1	34,0	17,0	10,0	10,0	1,900	240	40
290970		10	10,5	8,5	12,0	17,0	2	1	37,0	19,0	12,0	12,0	2,100	160	40
290972		12	13,0	8,5	12,0	17,0	2	1	38,0	21,0	13,0	13,0	2,000	160	40
290974		16	17,0	8,5	12,0	17,0	2	1	42,0	26,0	16,0	16,0	2,100	160	40
290976	50	6	6,5	10,0	14,0	19,0	2	1	37,0	20,0	10,0	10,0	2,900	160	40
290978		8	8,5	10,0	14,0	19,0	2	1	37,0	20,0	10,0	10,0	2,700	160	40
290980		10	10,5	10,0	14,0	19,0	2	1	39,0	20,0	12,0	12,0	2,900	160	25
290982		12	13,0	10,0	14,0	19,0	2	1	43,0	23,0	13,0	13,0	3,300	100	25
290984		16	17,0	10,0	14,0	19,0	2	1	46,0	28,0	16,0	16,0	3,100	100	25
290985	70	6	6,5	12,0	16,5	21,0	2	1	43,0	23,0	10,0	10,0	4,200	100	25
290986		8	8,5	12,0	16,5	21,0	2	1	43,0	23,0	10,0	10,0	4,200	100	25
290988		10	10,5	12,0	16,5	21,0	2	1	44,0	23,0	12,0	12,0	4,300	100	25
290990		12	13,0	12,0	16,5	21,0	2	1	46,0	23,0	13,0	13,0	4,500	100	25
290991		14	15,0	12,0	16,5	21,0	2	1	48,0	23,0	14,5	14,5	4,600	100	25
290992		16	17,0	12,0	16,5	21,0	2	1	50,0	28,0	16,0	16,0	5,100	100	25
290994	95	8	8,5	13,5	18,0	25,0	2	1	48,0	26,0	12,0	12,0	5,300	100	25
290996		10	10,5	13,5	18,0	25,0	2	1	48,0	26,0	12,0	12,0	5,100	100	25
290998		12	13,0	13,5	18,0	25,0	2	1	49,0	26,0	13,0	13,0	5,200	100	25
290999		14	15,0	13,5	18,0	25,0	2	1	51,0	26,0	14,5	14,5	5,400	60	15
291000		16	17,0	13,5	18,0	25,0	2	1	54,0	28,0	16,0	16,0	5,600	60	15
291002		20	21,0	13,5	18,0	25,0	2	1	60,0	36,0	22,0	22,0	6,000	60	15



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Tubular terminals, standard series

HUPtype

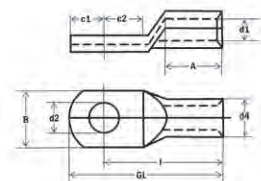
- For stranded round shaped conductors e.g. VDE 0295 class 2
- For preround sector shaped conductors • Annealed material for easier crimping
- Material: 99.9% electrolytic copper E-CU DIN 40500 • Surface: tin-plated
- Vibration and shock proofing DIN EN 61373:1999-11, Cat. 1, Cl. B



Cu

available with and without sight hole e.g. 29 00 04/S (add xx xx xx/s when ordering)

Art. no.	CSS	M	d2	d1	d4	A	v1	v2	l	B	c1	c2	kg/100	PU
290004	120	8	8,5	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,300	20
290006		10	10,5	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,200	80
290008		12	13,0	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,100	80
290009		14	15,0	15,0	19,5	26,0	2	1	52,0	28,0	15,0	15,0	5,900	72
290010		16	17,0	15,0	19,5	26,0	2	1	54,0	30,0	16,0	16,0	6,200	60
290012		20	21,0	15,0	19,5	26,0	2	1	63,0	36,0	22,0	22,0	7,900	60
290014	150	10	10,5	16,5	21,0	30,0	2	1	56,0	31,0	14,0	14,0	7,500	60
290016		12	13,0	16,5	21,0	30,0	2	1	57,0	31,0	15,0	15,0	7,300	60
290017		14	15,0	16,5	21,0	30,0	2	1	57,0	31,0	15,0	15,0	7,900	60
290018		16	17,0	16,5	21,0	30,0	2	1	58,0	31,0	16,0	16,0	7,500	60
290020		20	21,0	16,5	21,0	30,0	2	1	66,0	36,0	22,0	22,0	8,800	48
290022	185	12	13,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	11,100	40
290023		14	15,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	11,800	40
290024		16	17,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	10,700	40
290026		20	21,0	19,0	24,0	30,0	2	1	69,0	39,0	22,0	22,0	10,700	40
290028	240	12	13,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,700	30
290029		14	15,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,400	30
290030		16	17,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,400	30
290034	300	12	13,0	23,5	29,5	44,0	4	2	87,0	43,0	24,0	24,0	22,000	16
290036		14	15,0	23,5	29,5	44,0	4	2	87,0	43,0	24,0	24,0	21,700	16
290038		16	17,0	23,5	29,5	44,0	4	2	87,0	43,0	24,0	24,0	21,300	16
290040		20	21,0	23,5	29,5	44,0	4	2	87,0	43,0	24,0	24,0	21,400	16
290046	400	16	17,0	27,0	34,0	44,0	4	2	90,0	49,0	24,0	24,0	31,800	10
290048		20	21,0	27,0	34,0	44,0	4	2	90,0	49,0	24,0	24,0	30,500	10
290041	500	16	17,0	31,0	38,0	70,0	4	2	103,0	55,0	24,0	24,0	45,000	12
290043		20	21,0	31,0	38,0	70,0	4	2	103,0	55,0	24,0	24,0	45,000	12
290045	625	16	17,0	34,0	41,0	70,0	4	2	108,0	60,0	24,0	24,0	49,200	6
290047		20	21,0	34,0	41,0	70,0	4	2	108,0	60,0	24,0	24,0	49,200	6



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Angled tubular cable lugs 90°, standard series

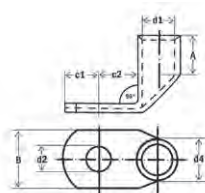
HUPtype

- For stranded round shaped conductors e.g. VDE 0295 class 2
- For preround sector shaped conductors • Annealed material for easier crimping
- Material: 99.9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated



Cu

Art. no.	CSS	M	d2	d1	d4	A	v1	v2	l	B	c1	c2	kg/100	PU
290932/90	6	5	5,3	3,5	6,5	9,0	1	-	21,0	10,0	6,5	7,5	0,475	1800
290934/90		6	6,5	3,5	6,5	9,0	1	-	21,0	12,0	6,5	7,5	0,400	1400
290936/90		8	8,5	3,5	6,5	9,0	1	-	23,0	15,0	10,0	10,0	0,500	1400
290938/90	10	5	5,3	4,5	7,0	10,0	1	-	22,0	12,0	6,5	7,5	0,400	1000
290940/90		6	6,5	4,5	7,0	10,0	1	-	22,0	12,0	6,5	7,5	50,000	1000
290942/90		8	8,5	4,5	7,0	10,0	1	-	25,0	15,0	10,0	10,0	0,540	800
290944/90		10	10,5	4,5	7,0	10,0	1	-	27,0	17,0	12,0	12,0	0,573	600
290948/90	16	5	5,3	5,5	8,5	13,0	1	1	26,0	12,0	5,5	6,5	0,800	600
290950/90		6	6,5	5,5	8,5	13,0	1	1	27,0	12,0	6,25	7,5	0,700	600
290952/90		8	8,5	5,5	8,5	13,0	1	1	29,0	15,0	8,5	9,5	0,800	400
290954/90		10	10,5	5,5	8,5	13,0	1	1	31,0	17,0	10,5	11,5	0,950	400
290956/90		12	13,0	5,5	8,5	13,0	1	1	33,0	19,0	12,0	13,0	1,000	400
290958/90	25	6	6,5	7,0	10,0	15,0	2	1	30,0	14,0	7,5	7,5	1,100	400
290960/90		8	8,5	7,0	10,0	15,0	2	1	32,0	16,0	10,0	10,0	1,200	400
290962/90		10	10,5	7,0	10,0	15,0	2	1	34,0	18,0	12,0	12,0	1,250	300
290964/90		12	13,0	7,0	10,0	15,0	2	1	35,0	19,0	13,0	13,0	1,300	300



Angled tubular cable lugs 90°, standard series

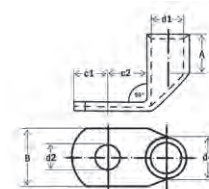
HUPtype

- For stranded round shaped conductors e.g. VDE 0295 class 2
- For preround sector shaped conductors • Annealed material for easier crimping
- Material: 99.9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated



Cu

Art. no.	CSS	M	d2	d1	d4	A	v1	v2	l	B	c1	c2	kg/100	PU	PU
290966/90	35	6	6,5	8,5	12,0	17,0	2	1	32,0	17,0	7,5	7,5	1,900	240	40
290968/90		8	8,5	8,5	12,0	17,0	2	1	34,0	17,0	10,0	10,0	1,900	240	40
290970/90		10	10,5	8,5	12,0	17,0	2	1	37,0	19,0	12,0	12,0	2,100	160	40
290972/90		12	13,0	8,5	12,0	17,0	2	1	38,0	21,0	13,0	13,0	2,000	160	40
290976/90	50	6	6,5	10,0	14,0	19,0	2	1	37,0	20,0	10,0	10,0	2,900	160	40
290978/90		8	8,5	10,0	14,0	19,0	2	1	37,0	20,0	10,0	10,0	2,700	160	40
290980/90		10	10,5	10,0	14,0	19,0	2	1	39,0	20,0	12,0	12,0	2,900	150	25
290982/90		12	13,0	10,0	14,0	19,0	2	1	43,0	23,0	13,0	13,0	3,300	100	25
290986/90	70	8	8,5	12,0	16,5	21,0	2	1	43,0	23,0	10,0	10,0	4,200	100	25
290988/90		10	10,5	12,0	16,5	21,0	2	1	44,0	23,0	12,0	12,0	4,300	100	25
290990/90		12	13,0	12,0	16,5	21,0	2	1	46,0	23,0	13,0	13,0	4,500	100	25
290992/90		16	17,0	12,0	16,5	21,0	2	1	50,0	28,0	16,0	16,0	5,100	100	25
290994/90	95	8	8,5	13,5	18,0	25,0	2	1	48,0	26,0	12,0	12,0	5,300	100	25
290996/90		10	10,5	13,5	18,0	25,0	2	1	48,0	26,0	12,0	12,0	5,100	100	25
290998/90		12	13,0	13,5	18,0	25,0	2	1	49,0	26,0	13,0	13,0	5,200	100	25
291000/90		16	17,0	13,5	18,0	25,0	2	1	54,0	28,0	16,0	16,0	5,600	60	15
291002/90		20	21,0	13,5	18,0	25,0	2	1	60,0	36,0	22,0	22,0	6,000	60	15
290006/90	120	10	10,5	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,200	60	15
290008/90		12	13,0	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,100	60	15
290010/90		16	17,0	15,0	19,5	26,0	2	1	54,0	30,0	16,0	16,0	6,200	60	15
290014/90	150	10	10,5	16,5	21,0	30,0	2	1	56,0	31,0	14,0	14,0	7,500	72	15
290016/90		12	13,0	16,5	21,0	30,0	2	1	57,0	31,0	15,0	15,0	7,300	72	15
290018/90		16	17,0	16,5	21,0	30,0	2	1	58,0	31,0	16,0	16,0	7,500	48	15
290020/90		20	21,0	16,5	21,0	30,0	2	1	66,0	36,0	22,0	22,0	8,800	48	12
291004/90	185	10	10,5	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	11,100	40	20
290022/90		12	13,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	11,100	40	20
290024/90		16	17,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	10,700	40	20
290028/90	240	12	13,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,700	30	15
290030/90		16	17,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,400	30	15



Butt connectors, standard series

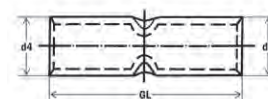
HUPtype

- Material: 99.9% E-CU DIN 40500
- Surface: tin-plated • Annealed material for easier crimping
- For stranded conductors e.g. VDE 0295 class 2
- with buttmarks for precise cable insertion



Cu

Art. no.	CSS	d1	d4	v1	v2	TL	kg/100	PU	PU
291050	0,75	1,3	2,8	1	-	14	0,051	2000	100
291052	1,5	1,8	3,3	1	-	14	0,074	2000	100
291054	2,5	2,3	4,2	1	-	16	0,150	2000	100
291056	4	3,0	5,0	1	-	19	0,195	1000	100
291058	6	3,5	6,5	1	-	19	0,350	1000	100
291060	10	4,5	7,0	1	-	30	0,558	600	100
291062	16	5,5	8,5	1	1	35	0,984	500	50
291064	25	7,0	10,0	2	1	40	1,350	200	50
291066	35	8,5	12,0	2	1	45	2,150	200	50
291068	50	10,0	14,0	2	1	50	3,100	100	25
291070	70	12,0	16,5	2	1	55	4,700	50	25
291072	95	13,5	18,0	2	1	60	5,600	50	25
291074	120	15,0	19,5	2	1	65	6,800	50	15
291076	150	16,5	21,0	2	1	70	7,800	50	20
291078	185	19,0	24,0	2	1	80	11,700	36	5
291080	240	21,0	26,0	4	2	90	13,900	12	10
291082	300	23,5	29,5	4	2	100	22,300	6	5
291084	400	27,0	34,0	4	2	100	29,000	6	5



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...convincing solutions

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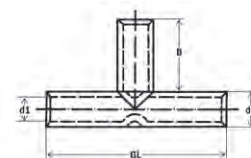
T-connectors, standard series

HUPtype

- Material: 99.9% E-CU DIN 40500
- Annealed material for easier crimping
- Surface: tin-plated
- For stranded conductors e.g. VDE 0295 class 2



Art. no.	CSS	d1	d4	A	TL	kg/100	PU
291330	1,5	1,9	3,9	12	30	0,400	25
291332	2,5	2,4	4,4	12	30	0,400	25
291334	4	3,0	5,0	12	30	0,600	25
291336	6	3,7	5,5	14	35	1,100	25
291338	10	4,3	6,7	14	35	1,500	25
291340	16	5,4	7,8	21	50	2,300	25
291342	25	6,9	9,4	23	55	2,200	25
291344	35	8,3	11,3	30	70	3,800	25
291348	50	9,6	13,1	34	80	6,000	25
291350	70	11,5	15,3	35	85	10,100	25
291352	95	13,5	17,5	36	90	11,600	25
291354	120	15,5	20,0	38	95	17,800	10
291356	150	16,8	21,3	44	110	17,900	10
291358	185	19,0	24,0	45	115	28,300	1
291360	240	21,0	26,0	52	130	31,200	1



Cross connectors, standard series

HUPtype

- Material: 99.9% E-CU DIN 40500
- Annealed material for easier crimping
- Surface: tin-plated
- For stranded conductors e.g. VDE 0295 class 2



Art. no.	CSS	d1	d4	A	TL	kg/100	PU
291370	1,5	1,9	3,9	12	30	0,450	100
291372	2,5	2,4	4,4	12	30	0,520	100
291374	4	3,0	5,0	12	30	0,480	25
291376	6	3,7	5,5	14	30	0,700	25
291378	10	4,3	6,7	14	35	0,800	25
291380	16	5,4	7,8	21	50	1,650	25
291382	25	6,9	9,4	23	55	3,000	25
291384	35	8,3	11,3	30	70	5,100	10
291386	50	9,6	13,1	34	80	8,050	10
291388	70	11,5	15,3	35	85	10,700	10
291390	95	13,5	17,5	36	90	15,700	10
291392	120	15,5	20,0	38	95	23,400	10
291394	150	16,8	21,3	44	110	18,900	1
291396	185	19,0	24,0	45	115	25,000	1
291398	240	21,0	26,0	52	130	31,100	1

