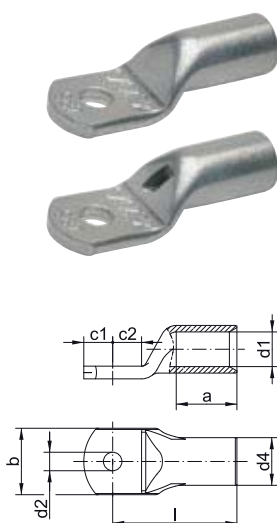


Tubular cable lugs, Cu, standard type with and without inspection hole



- ▶ Approval of the tin-plated cable lugs for use with high-temperature cables 180 °C (based on IEC 61238-1-1): The cable lugs can be used with tin-plated conductors of class 5 (fine-wire)
- ▶ For multi-stranded round conductors, e.g. to EN 60228 Cl. 2
- ▶ For pre-rounded multi-stranded sector shaped conductors
- ▶ Ideal cable lug for control cabinet construction
- ▶ In combination with EKM 60 ID and EK 30 ID suitable for fine-stranded conductors

Characteristics

- To DIN EN 61373 class 1B vibration-tested
- Simple and safe connection due to flat contact surfaces and internal chamfer
- Item identification on cable lug

Material

- Copper (EN13600)

Surface

- Tin-plated to protect against corrosion

Technical instructions

- Tool: see page 1.30
- You will find further information on the cable descriptions in the technical appendix, page i-6
- Sleeves for compacted conductors and sleeves for 3-core and 4-core cables, see chapter „Sleeves for compacted conductors and sector shaped conductors - Cu“

Additional information

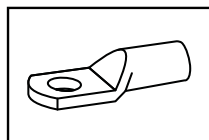
- Also available as featured article with inspection hole, part number appendix „MS“

Nominal cross section mm ²	Size of bolt dia.	without insp. hole Part No.	with insp. hole Part No.	Dimension mm								Weight/100 pcs. ~ kg	Packing unit/pcs
				d1	a	b	d2	d4	c1	c2	l		
6	M5	1R5	1R5MS	3,5	9	10	5,3	6,5	6,50	7,5	21	0,50	100
	M6	1R6	1R6MS	3,5	9	12	6,4	6,5	6,50	7,5	21	0,47	100
	M8	1R8	1R8MS	3,5	9	15	8,4	6,5	10,00	10,0	23	0,54	100
	M10	1R10	1R10MS	3,5	9	17	10,5	6,5	12,00	12,0	25	0,59	100
	M12	1R12	1R12MS	3,5	9	19	13,0	6,5	13,00	13,0	28	0,63	100
10	M5	2R5	2R5MS	4,5	10	12	5,3	7,0	6,50	7,5	22	0,50	100
	M6	2R6	2R6MS	4,5	10	12	6,4	7,0	6,50	7,5	22	0,49	100
	M8	2R8	2R8MS	4,5	10	15	8,4	7,0	10,00	10,0	25	0,58	100
	M10	2R10	2R10MS	4,5	10	17	10,5	7,0	12,00	12,0	27	0,62	100
	M12	2R12	2R12MS	4,5	10	19	13,0	7,0	13,00	13,0	29	0,64	100
16	M5	3R5	3R5MS	5,5	13	12	5,5	8,5	5,50	6,5	26	0,84	100
	M6	3R6	3R6MS	5,5	13	12	6,4	8,5	6,25	7,5	27	0,86	100
	M8	3R8	3R8MS	5,5	13	15	8,3	8,5	8,50	9,5	29	0,93	100
	M10	3R10	3R10MS	5,5	13	17	10,5	8,5	10,50	11,5	31	0,99	100
	M12	3R12	3R12MS	5,5	13	19	13,0	8,5	12,00	13,0	33	1,02	100
25	M5	4R5	4R5MS	7,0	15	14	5,3	10,0	7,50	7,5	30	1,22	25
	M6	4R6	4R6MS	7,0	15	14	5,3	10,0	7,50	7,5	30	1,20	100
	M8	4R8	4R8MS	7,0	15	16	8,4	10,0	10,00	10,0	32	1,31	100
	M10	4R10	4R10MS	7,0	15	18	10,5	10,0	12,00	12,0	34	1,57	100
	M12	4R12	4R12MS	7,0	15	19	13,0	10,0	13,00	13,0	35	1,39	25
35	M14	4R14	4R14MS	7,0	15	21	15,0	10,0	14,50	14,5	38	1,49	25
	M6	5R6	5R6MS	8,5	17	17	6,4	12,0	7,50	7,5	32	1,85	100
	M8	5R8	5R8MS	8,5	17	17	8,4	12,0	10,00	10,0	34	2,00	100
	M10	5R10	5R10MS	8,5	17	19	10,5	12,0	12,00	12,0	37	2,13	100
	M12	5R12	5R12MS	8,5	17	21	13,0	12,0	13,00	13,0	38	2,12	100
	M14	5R14	5R14MS	8,5	17	21	15,0	12,0	14,50	14,5	40	2,18	25
	M16	5R16	5R16MS	8,5	17	26	17,0	12,0	16,00	16,0	42	2,24	25

See next page

Tubular cable lugs, Cu, standard type with and without inspection hole

Nominal cross section mm ²	Size of bolt dia.	without insp. hole Part No.	with insp. hole Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/pcs
				d1	a	b	d2	d4	c1	c2	l		
50	M6	6R6	6R6MS	10,0	19	20	6,4	14,0	10,00	10,0	37	3,00	25
	M8	6R8	6R8MS	10,0	19	20	8,4	14,0	10,00	10,0	37	2,93	50
	M10	6R10	6R10MS	10,0	19	20	10,5	14,0	12,00	12,0	39	3,08	50
	M12	6R12	6R12MS	10,0	19	23	13,0	14,0	13,00	13,0	43	3,23	50
	M14	6R14	6R14MS	10,0	19	23	15,0	14,0	14,50	14,5	45	3,32	25
	M16	6R16	6R16MS	10,0	19	28	17,0	14,0	16,00	16,0	46	3,38	25
	M20	6R20	6R20MS	10,0	19	30	21,0	14,0	19,00	19,0	48	3,46	25
70	M6	7R6	7R6MS	12,0	21	23	6,4	16,5	10,00	10,0	43	4,49	25
	M8	7R8	7R8MS	12,0	21	23	8,5	16,5	10,00	10,0	43	4,38	50
	M10	7R10	7R10MS	12,0	21	23	10,5	16,5	12,00	12,0	44	4,54	50
	M12	7R12	7R12MS	12,0	21	23	13,0	16,5	13,00	13,0	46	4,63	50
	M14	7R14	7R14MS	12,0	21	23	15,0	16,5	14,50	14,5	48	4,76	25
	M16	7R16	7R16MS	12,0	21	28	17,0	16,5	16,00	16,0	50	4,24	25
	M20	7R20	7R20MS	12,0	21	30	21,0	16,5	19,00	19,0	53	5,09	25
95	M8	8R8	8R8MS	13,5	25	26	8,4	18,0	12,00	12,0	48	5,44	25
	M10	8R10	8R10MS	13,5	25	26	10,5	18,0	12,00	12,0	48	5,40	50
	M12	8R12	8R12MS	13,5	25	26	13,0	18,0	13,00	13,0	49	5,56	50
	M14	8R14	8R14MS	13,5	25	26	15,0	18,0	14,50	14,5	51	5,62	25
	M16	8R16	8R16MS	13,5	25	28	17,0	18,0	16,00	16,0	54	5,82	50
	M20	8R20	8R20MS	13,5	25	36	21,0	18,0	22,00	22,0	60	6,71	25
	M8	9R8	9R8MS	15,0	26	28	8,4	19,5	14,00	14,0	51	6,72	25
120	M10	9R10	9R10MS	15,0	26	28	10,5	19,5	14,00	14,0	51	6,57	50
	M12	9R12	9R12MS	15,0	26	28	13,0	19,5	14,00	14,0	51	6,38	50
	M14	9R14	9R14MS	15,0	26	28	15,0	19,5	15,00	15,0	52	6,45	25
	M16	9R16	9R16MS	15,0	26	30	17,0	19,5	16,00	16,0	54	6,51	50
	M20	9R20	9R20MS	15,0	26	36	21,0	19,5	22,00	22,0	63	7,74	25
	M8	10R8	10R8MS	16,5	30	31	8,5	21,0	14,00	14,0	56	7,78	10
	M10	10R10	10R10MS	16,5	30	31	10,5	21,0	14,00	14,0	56	7,62	10
150	M12	10R12	10R12MS	16,5	30	31	13,0	21,0	15,00	15,0	57	7,73	25
	M14	10R14	10R14MS	16,5	30	31	15,0	21,0	15,00	15,0	57	7,64	10
	M16	10R16	10R16MS	16,5	30	31	17,0	21,0	16,00	16,0	58	7,53	10
	M20	10R20	10R20MS	16,5	30	36	21,0	21,0	22,00	22,0	66	8,80	10
	M10	11R10	11R10MS	19,0	30	35	10,5	24,0	18,00	18,0	65	11,75	10
	M12	11R12	11R12MS	19,0	30	35	13,0	24,0	18,00	18,0	65	11,82	10
	M14	11R14	11R14MS	19,0	30	35	15,0	24,0	18,00	18,0	65	11,39	10
185	M16	11R16	11R16MS	19,0	30	35	17,0	24,0	18,00	18,0	65	11,24	25
	M20	11R20	11R20MS	19,0	30	39	21,0	24,0	22,00	22,0	69	12,00	10
	M10	12R10	12R10MS	21,0	35	39	10,5	26,0	21,50	19,0	72	14,72	10
	M12	12R12	12R12MS	21,0	35	39	13,0	26,0	21,50	19,0	72	14,55	10
	M14	12R14	12R14MS	21,0	35	39	15,0	26,0	21,50	19,0	72	14,24	10
	M16	12R16	12R16MS	21,0	35	39	17,0	26,0	21,50	19,0	72	14,09	25
	M20	12R20	12R20MS	21,0	35	39	21,0	26,0	21,50	19,0	72	13,60	10
240	M12	13R12	13R12MS	23,5	44	43	13,0	29,5	24,00	24,0	87	23,33	5
	M14	13R14	13R14MS	23,5	44	43	15,0	29,5	24,00	24,0	87	23,14	5
	M16	13R16	13R16MS	23,5	44	43	17,0	29,5	24,00	24,0	87	22,74	5
	M20	13R20	13R20MS	23,5	44	43	21,0	29,5	24,00	24,0	87	22,19	5
300	M12	14R12	14R12MS	27,0	44	49	13,0	34,0	24,00	24,0	90	32,41	5
	M14	14R14	14R14MS	27,0	44	49	15,0	34,0	24,00	24,0	90	32,24	5
	M16	14R16	14R16MS	27,0	44	49	17,0	34,0	24,00	24,0	90	31,98	5
	M20	14R20	14R20MS	27,0	44	49	21,0	34,0	24,00	24,0	90	31,41	5



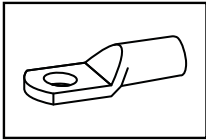
Tool application chart

Tubular cable lugs, butt connectors, parallel connectors and T-connectors „standard type“ and tubular cable lugs for switchgear connections made from Cu

Part 1 of 2




























Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Mechanical crimping tools	6 - 50	K5		2.18		
		K05		2.19		
	6 - 120	K06		2.19		
	0,75 - 16	K2		2.16		
	16 - 95	K95		2.17		
	25 - 150	K09		2.20		
Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads	0,75 - 10	K50		2.23	2.82	
		EK50ML		6.6	2.82	
	6 - 25	K50		2.23	2.82	
		EK50ML		6.6	2.82	
	6 - 150	K354		2.24	2.84	
	6 - 300	K22		2.26	2.87	
Hand hydraulic crimping tools	6 - 300	HK6022		2.56	2.87	
	10 - 240	HK60VP		2.58		
	16 - 300	HK60VPFT		2.59		
	16 - 400	HK12030		2.60	2.91	
		HK12042		2.62	2.91	
	HK120U		2.64	2.91		

See next page



Tool application chart

Tubular cable lugs, butt connectors, parallel connectors and T-connectors „standard type“ and tubular cable lugs for switchgear connections made from Cu
Part 2 of 2

Tool type	Crimping range corresponds to nominal cross-section mm ²	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
Battery powered crimping tools	6 - 120	EK30IDML		2.30		
	6 - 150	EK354ML		2.32	2.84	
		EK354		2.36	2.84	
		EKM6022		2.38	2.87	
	6 - 300	EK6022		2.40	2.87	
		EKM6022IS		4.6	2.87	
		EKM60UNV	+UA22	6.11	2.87	
		EK60UNV	+UA22	6.12	2.87	
		10 - 240	EK60VP		2.42	
	EKM60ID			2.44		
	EKM60IDIS			4.8		
	16 - 300	EK60VPFT		2.43		
	16 - 400	EK12032		2.46	2.91	
		EK12042		2.48	2.91	
		EK120U		2.50	2.91	
		EK135FT	+UA15T	2.52	2.91	
		EK120UNV	+UA12TKL	6.13	2.91	
70 - 185	EK120ID		2.45			
Hydraulic crimping systems	6 - 300	THK22		2.68	2.87	
	16 - 400	THK120		2.72	2.91	
		HK252	+25A13	2.78	2.91 + 2.96	
Hydraulic crimping heads	6 - 300	PK22		2.68	2.87	
		PK60UNV	+UA22	6.10	2.87	
	10 - 240	PK60VP		2.70		
		PK60ID		2.71		
	16 - 300	PK60VPFT		2.70		
	16 - 400	PK12042		2.72	2.91	
		PK120U		2.74	2.91	
		PK252	+25A13	2.76	2.91 + 2.96	