

Verbindungen mit **System**  
The **Power** of Partnership



# Tubular cable lugs and connectors

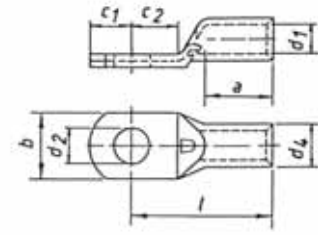
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**Tubular cable lugs**

- ring type, with inspection hole
- material: E-copper
- surface: tin plated



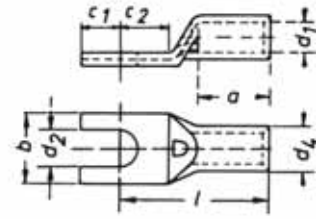
Cross section mm <sup>2</sup>	Bolt size Ø	Part No.	Dimensions mm									Weight/ 100 pcs.	
			d1	a	b	d2	d4	c1	c2	l	~ kg	pcs.	
0.75	M3	<b>91R3</b>	1.3	6	6.0	3.2	2.8	3.25	4.0	12	0.060	100	
	M4	<b>91R4</b>	1.3	6	6.5	4.3	2.8	4.00	5.0	13	0.060	100	
	M5	<b>91R5</b>	1.3	6	7.5	5.3	2.8	4.75	5.5	14	0.060	100	
1.5	M3	<b>92R3</b>	1.8	6	6.5	3.2	3.3	3.25	4.0	12	0.080	100	
	M4	<b>92R4</b>	1.8	6	6.5	4.3	3.3	4.00	5.0	13	0.080	100	
	M5	<b>92R5</b>	1.8	6	7.5	5.3	3.3	4.75	5.5	14	0.080	100	
	M6	<b>92R6</b>	1.8	6	9.0	6.5	3.3	6.50	6.5	16	0.090	100	
2.5	M3	<b>93R3</b>	2.3	6	7.5	3.2	4.2	3.25	4.0	12	0.120	100	
	M4	<b>93R4</b>	2.3	6	7.5	4.3	4.2	4.00	5.0	13	0.120	100	
	M5	<b>93R5</b>	2.3	6	8.5	5.3	4.2	4.75	5.5	14	0.130	100	
	M6	<b>93R6</b>	2.3	6	9.5	6.5	4.2	6.50	6.5	16	0.150	100	
	M8	<b>93R8</b>	2.3	6	13.0	8.5	4.2	7.75	9.5	20	0.180	100	
4	M4	<b>94R4</b>	3.0	8	8.5	4.3	5.0	4.75	5.5	18	0.210	100	
	M5	<b>94R5</b>	3.0	8	9.0	5.3	5.0	4.75	6.0	18	0.213	100	
	M6	<b>94R6</b>	3.0	8	10.0	6.5	5.0	6.50	6.5	19	0.220	100	
	M8	<b>94R8</b>	3.0	8	13.0	8.5	5.0	8.50	9.5	22	0.280	100	
6	M4	<b>95R4</b>	4.0	9	9.5	4.3	6.0	5.00	5.5	18	0.290	100	
	M5	<b>95R5</b>	4.0	9	9.5	5.3	6.0	6.00	6.0	19	0.300	100	
	M6	<b>95R6</b>	4.0	9	10.0	6.5	6.0	7.00	6.5	19	0.300	100	
	M8	<b>95R8</b>	4.0	9	14.0	8.5	6.0	8.50	9.5	22	0.320	100	

>> Tool: see chart page 1.29



### Tubular cable lugs

- fork type, with inspection hole
- material: E-copper
- surface: tin plated



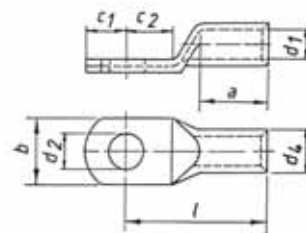
Cross section mm <sup>2</sup>	Bolt size Ø	Part No.	Dimensions mm									Weight/ 100 pcs. ~ kg	pcs.
			d1	a	b	d2	d4	c1	c2	l	d		
0.75	M3	<b>91C3</b>	1.3	6	6.0	3.2	2.8	3.25	4.0	12	0.06	100	
	M4	<b>91C4</b>	1.3	6	6.5	4.3	2.8	4.00	5.0	13	0.05	100	
	M5	<b>91C5</b>	1.3	6	7.5	5.3	2.8	4.75	5.5	14	0.06	100	
1.5	M3	<b>92C3</b>	1.8	6	6.5	3.2	3.3	3.25	4.0	12	0.07	100	
	M4	<b>92C4</b>	1.8	6	6.5	4.3	3.3	4.00	5.0	13	0.07	100	
	M5	<b>92C5</b>	1.8	6	7.5	5.3	3.3	4.75	5.5	14	0.07	100	
	M6	<b>92C6</b>	1.8	6	9.0	6.5	3.3	6.50	6.5	16	0.08	100	
2.5	M3	<b>93C3</b>	2.3	6	7.5	3.2	4.2	3.25	4.0	12	0.12	100	
	M4	<b>93C4</b>	2.3	6	7.5	4.3	4.2	4.00	5.0	13	0.11	100	
	M5	<b>93C5</b>	2.3	6	8.5	5.3	4.2	4.75	5.5	14	0.12	100	
	M6	<b>93C6</b>	2.3	6	9.5	6.5	4.2	6.50	6.5	16	0.10	100	
4	M4	<b>94C4</b>	3.0	8	8.5	4.3	5.0	4.75	5.5	17	0.19	100	
	M5	<b>94C5</b>	3.0	8	9.0	5.3	5.0	4.75	6.0	17	0.19	100	
	M6	<b>94C6</b>	3.0	8	10.0	6.5	5.0	6.50	6.5	19	0.21	100	
	M8	<b>94C8</b>	3.0	8	13.0	8.5	5.0	8.50	9.5	22	0.24	100	
6	M4	<b>95C4</b>	4.0	9	9.5	4.3	6.0	5.00	5.5	18	0.27	100	
	M5	<b>95C5</b>	4.0	9	9.5	5.3	6.0	6.00	6.0	19	0.32	100	
	M6	<b>95C6</b>	4.0	9	10.0	6.5	6.0	7.00	6.5	19	0.27	100	
	M8	<b>95C8</b>	4.0	9	14.0	8.5	6.0	8.50	9.0	22	0.31	100	
10	M5	<b>96C5</b>	4.5	10	12.0	5.5	7.0	6.50	7.5	22	0.45	100	
	M6	<b>96C6</b>	4.5	10	12.0	6.5	7.0	6.50	7.5	22	0.41	100	
	M8	<b>96C8</b>	4.5	10	15.0	8.5	7.0	10.00	10.0	25	0.52	100	
16	M5	<b>97C5</b>	5.5	13	12.0	5.5	8.5	5.50	6.5	26	0.81	100	
	M6	<b>97C6</b>	5.5	13	12.0	6.5	8.5	6.25	7.5	27	0.81	100	
	M8	<b>97C8</b>	5.5	13	15.0	8.5	8.5	8.50	9.5	29	0.90	100	

>> Tool: see chart page 1.29



### Tubular cable lugs

- standard type
- material: E-copper
- surface: tin plated
- with or without inspection hole

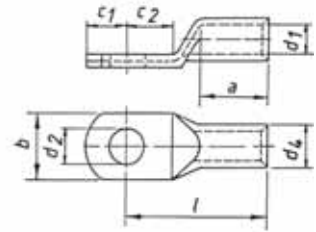


Cross section mm <sup>2</sup>	Bolt size Ø	Part No.*	Dimensions mm									Weight/ 100 pcs. ~ kg	pcs.
			d1	a	b	d2	d4	c1	c2	l			
6	M5	<b>1R5</b>	3.5	9	10	5.5	6.5	6.50	7.5	21	0.50	100	
	M6	<b>1R6</b>	3.5	9	12	6.5	6.5	6.50	7.5	21	0.47	100	
	M8	<b>1R8</b>	3.5	9	15	8.5	6.5	10.00	10.0	23	0.54	100	
	M10	<b>1R10</b>	3.5	9	17	10.5	6.5	12.00	12.0	25	0.59	100	
	M12	<b>1R12</b>	3.5	9	19	13.0	6.5	13.00	13.0	28	0.63	100	
10	M5	<b>2R5</b>	4.5	10	12	5.5	7.0	6.50	7.5	22	0.50	100	
	M6	<b>2R6</b>	4.5	10	12	6.5	7.0	6.50	7.5	22	0.49	100	
	M8	<b>2R8</b>	4.5	10	15	8.5	7.0	10.00	10.0	25	0.58	100	
	M10	<b>2R10</b>	4.5	10	17	10.5	7.0	12.00	12.0	27	0.62	100	
	M12	<b>2R12</b>	4.5	10	19	13.0	7.0	13.00	13.0	29	0.64	100	
16	M5	<b>3R5</b>	5.5	13	12	5.5	8.5	5.50	6.5	26	0.84	100	
	M6	<b>3R6</b>	5.5	13	12	6.5	8.5	6.25	7.5	27	0.86	100	
	M8	<b>3R8</b>	5.5	13	15	8.5	8.5	8.50	9.5	29	0.93	100	
	M10	<b>3R10</b>	5.5	13	17	10.5	8.5	10.50	11.5	31	0.99	100	
	M12	<b>3R12</b>	5.5	13	19	13.0	8.5	12.00	13.0	33	1.02	100	
25	M5	<b>4R5</b>	7.0	15	14	5.5	10.0	7.50	7.5	30	1.22	25	
	M6	<b>4R6</b>	7.0	15	14	6.5	10.0	7.50	7.5	30	1.20	100	
	M8	<b>4R8</b>	7.0	15	16	8.5	10.0	10.00	10.0	32	1.31	100	
	M10	<b>4R10</b>	7.0	15	18	10.5	10.0	12.00	12.0	34	1.57	100	
	M12	<b>4R12</b>	7.0	15	19	13.0	10.0	13.00	13.0	35	1.39	25	
35	M5	<b>5R5</b>	7.0	15	21	15.0	10.0	14.50	14.5	38	1.49	25	
	M6	<b>5R6</b>	8.5	17	17	6.5	12.0	7.50	7.5	32	1.85	100	
	M8	<b>5R8</b>	8.5	17	17	8.5	12.0	10.00	10.0	34	2.00	100	
	M10	<b>5R10</b>	8.5	17	19	10.5	12.0	12.00	12.0	37	2.13	100	
	M12	<b>5R12</b>	8.5	17	21	13.0	12.0	13.00	13.0	38	2.12	100	
50	M14	<b>5R14</b>	8.5	17	21	15.0	12.0	14.50	14.5	40	2.18	25	
	M16	<b>5R16</b>	8.5	17	26	17.0	12.0	16.00	16.0	42	2.24	25	
	M6	<b>6R6</b>	10.0	19	20	6.5	14.0	10.00	10.0	37	3.00	25	
	M8	<b>6R8</b>	10.0	19	20	8.5	14.0	10.00	10.0	37	2.93	50	
	M10	<b>6R10</b>	10.0	19	20	10.5	14.0	12.00	12.0	39	3.08	50	
70	M12	<b>6R12</b>	10.0	19	23	13.0	14.0	13.00	13.0	43	3.23	50	
	M14	<b>6R14</b>	10.0	19	23	15.0	14.0	14.50	14.5	45	3.32	25	
	M16	<b>6R16</b>	10.0	19	28	17.0	14.0	16.00	16.0	46	3.38	25	
	M20	<b>6R20</b>	10.0	19	30	21.0	14.0	19.00	19.0	48	3.46	25	
	M6	<b>7R6</b>	12.0	21	23	6.5	16.5	10.00	10.0	43	4.49	25	
	M8	<b>7R8</b>	12.0	21	23	8.5	16.5	10.00	10.0	43	4.38	50	
70	M10	<b>7R10</b>	12.0	21	23	10.5	16.5	12.00	12.0	44	4.54	50	
	M12	<b>7R12</b>	12.0	21	23	13.0	16.5	13.00	13.0	46	4.63	50	
	M14	<b>7R14</b>	12.0	21	23	15.0	16.5	14.50	14.5	48	4.76	25	
	M16	<b>7R16</b>	12.0	21	28	17.0	16.5	16.00	16.0	50	4.24	25	
	M20	<b>7R20</b>	12.0	21	30	21.0	16.5	19.00	19.0	53	5.09	25	



### Tubular cable lugs

- standard type
- material: E-copper
- surface: tin plated
- with or without inspection hole



Cross section mm <sup>2</sup>	Bolt size Ø	Part No.*	Dimensions mm								Weight/ 100 pcs. ~ kg	pcs.
			d1	a	b	d2	d4	c1	c2	l		
95	M8	<b>8R8</b>	13.5	25	26	8.5	18.0	12.0	12.0	48	5.44	25
	M10	<b>8R10</b>	13.5	25	26	10.5	18.0	12.0	12.0	48	5.40	50
	M12	<b>8R12</b>	13.5	25	26	13.0	18.0	13.0	13.0	49	5.56	50
	M14	<b>8R14</b>	13.5	25	26	15.0	18.0	14.5	14.5	51	5.62	25
	M16	<b>8R16</b>	13.5	25	28	17.0	18.0	16.0	16.0	54	5.82	50
	M20	<b>8R20</b>	13.5	25	36	21.0	18.0	22.0	22.0	60	6.71	25
120	M8	<b>9R8</b>	15.0	26	28	8.5	19.5	14.0	14.0	51	6.72	25
	M10	<b>9R10</b>	15.0	26	28	10.5	19.5	14.0	14.0	51	6.57	50
	M12	<b>9R12</b>	15.0	26	28	13.0	19.5	14.0	14.0	51	6.38	50
	M14	<b>9R14</b>	15.0	26	28	15.0	19.5	15.0	15.0	52	6.45	25
	M16	<b>9R16</b>	15.0	26	30	17.0	19.5	16.0	16.0	54	6.51	50
	M20	<b>9R20</b>	15.0	26	36	21.0	19.5	22.0	22.0	63	7.74	25
150	M8	<b>10R8</b>	16.5	30	31	8.5	21.0	14.0	14.0	56	7.78	10
	M10	<b>10R10</b>	16.5	30	31	10.5	21.0	14.0	14.0	56	7.62	10
	M12	<b>10R12</b>	16.5	30	31	13.0	21.0	15.0	15.0	57	7.73	25
	M14	<b>10R14</b>	16.5	30	31	15.0	21.0	15.0	15.0	57	7.64	10
	M16	<b>10R16</b>	16.5	30	31	17.0	21.0	16.0	16.0	58	7.53	10
	M20	<b>10R20</b>	16.5	30	36	21.0	21.0	22.0	22.0	66	8.80	10
185	M10	<b>11R10</b>	19.0	30	35	10.5	24.0	18.0	18.0	65	11.75	10
	M12	<b>11R12</b>	19.0	30	35	13.0	24.0	18.0	18.0	65	11.82	10
	M14	<b>11R14</b>	19.0	30	35	15.0	24.0	18.0	18.0	65	11.39	10
	M16	<b>11R16</b>	19.0	30	35	17.0	24.0	18.0	18.0	65	11.24	25
	M20	<b>11R20</b>	19.0	30	39	21.0	24.0	22.0	22.0	69	12.00	10
240	M10	<b>12R10</b>	21.0	35	39	10.5	26.0	21.5	19.0	72	14.72	10
	M12	<b>12R12</b>	21.0	35	39	13.0	26.0	21.5	19.0	72	14.55	10
	M14	<b>12R14</b>	21.0	35	39	15.0	26.0	21.5	19.0	72	14.24	10
	M16	<b>12R16</b>	21.0	35	39	17.0	26.0	21.5	19.0	72	14.09	25
	M20	<b>12R20</b>	21.0	35	39	21.0	26.0	21.5	19.0	72	13.60	10
300	M12	<b>13R12</b>	23.5	44	43	13.0	29.5	24.0	24.0	87	23.33	5
	M14	<b>13R14</b>	23.5	44	43	15.0	29.5	24.0	24.0	87	23.14	5
	M16	<b>13R16</b>	23.5	44	43	17.0	29.5	24.0	24.0	87	22.74	5
	M20	<b>13R20</b>	23.5	44	43	21.0	29.5	24.0	24.0	87	22.19	5
400	M12	<b>14R12</b>	27.0	44	49	13.0	34.0	24.0	24.0	90	32.41	5
	M14	<b>14R14</b>	27.0	44	49	15.0	34.0	24.0	24.0	90	32.24	5
	M16	<b>14R16</b>	27.0	44	49	17.0	34.0	24.0	24.0	90	31.98	5
	M20	<b>14R20</b>	27.0	44	49	21.0	34.0	24.0	24.0	90	31.41	5

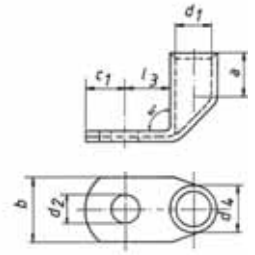
\*Part number for inspection hole version with appendix "ms"

>> Tool: see chart page 1.29



**Tubular angle cable lugs**

- standard type, 90° angle
- material: E-copper
- surface: tin plated

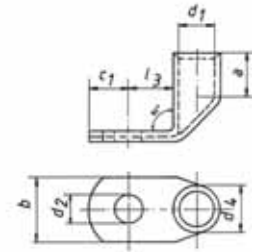


Cross section mm <sup>2</sup>	Bolt size Ø	Part No.	Dimensions mm							Weight/ 100 pcs.	
			d1	a	b	d2	d4	c1	l3	~ kg	pcs.
6	M5	<b>41R5</b>	3.5	9	10	5.5	6.5	7.5	9	0.59	50
	M6	<b>41R6</b>	3.5	9	12	6.5	6.5	7.5	10	0.58	50
	M8	<b>41R8</b>	3.5	9	14	8.5	6.5	10.0	13	0.61	50
	M10	<b>41R10</b>	3.5	9	17	10.5	6.5	12.0	15	0.65	50
	M12	<b>41R12</b>	3.5	9	19	13.0	6.5	13.0	17	0.62	50
10	M5	<b>42R5</b>	4.5	10	12	5.5	7.0	6.5	10	0.57	50
	M6	<b>42R6</b>	4.5	10	12	6.5	7.0	6.5	10	0.57	50
	M8	<b>42R8</b>	4.5	10	15	8.5	7.0	10.0	13	0.63	50
	M10	<b>42R10</b>	4.5	10	17	10.5	7.0	12.0	15	0.66	50
	M12	<b>42R12</b>	4.5	10	19	13.0	7.0	13.0	18	0.81	50
16	M5	<b>43R5</b>	5.5	13	12	5.5	8.5	7.5	10	1.01	50
	M6	<b>43R6</b>	5.5	13	12	6.5	8.5	7.5	11	1.01	50
	M8	<b>43R8</b>	5.5	13	15	8.5	8.5	10.0	13	1.08	50
	M10	<b>43R10</b>	5.5	13	17	10.5	8.5	12.0	15	1.09	50
	M12	<b>43R12</b>	5.5	13	19	13.0	8.5	13.0	18	1.15	50
25	M5	<b>44R5</b>	7.0	15	14	5.5	10.0	7.5	11	1.40	25
	M6	<b>44R6</b>	7.0	15	14	6.5	10.0	7.5	11	1.32	25
	M8	<b>44R8</b>	7.0	15	16	8.5	10.0	10.0	13	1.44	25
	M10	<b>44R10</b>	7.0	15	18	10.5	10.0	12.0	15	1.49	25
	M12	<b>44R12</b>	7.0	15	19	13.0	10.0	13.0	18	1.44	25
35	M5	<b>44R5</b>	7.0	15	21	15.0	10.0	14.5	20	1.55	25
	M6	<b>45R6</b>	8.5	17	17	6.5	12.0	7.5	11	2.05	25
	M8	<b>45R8</b>	8.5	17	17	8.5	12.0	10.0	13	2.20	25
	M10	<b>45R10</b>	8.5	17	19	10.5	12.0	12.0	15	2.28	25
	M12	<b>45R12</b>	8.5	17	21	13.0	12.0	13.0	18	2.38	25
50	M14	<b>45R14</b>	8.5	17	21	15.0	12.0	14.5	20	2.41	25
	M16	<b>45R16</b>	8.5	17	26	17.0	12.0	16.0	22	2.40	25
	M6	<b>46R6</b>	10.0	19	20	6.5	14.0	10.0	13	3.34	25
	M8	<b>46R8</b>	10.0	19	20	8.5	14.0	10.0	13	3.28	25
	M10	<b>46R10</b>	10.0	19	20	10.5	14.0	12.0	16	3.47	25
70	M12	<b>46R12</b>	10.0	19	23	13.0	14.0	13.0	18	3.42	25
	M14	<b>46R14</b>	10.0	19	23	15.0	14.0	14.5	20	3.55	25
	M16	<b>46R16</b>	10.0	19	28	17.0	14.0	16.0	22	3.58	25
	M20	<b>46R20</b>	10.0	19	30	21.0	14.0	19.0	24	3.15	25
	M6	<b>47R6</b>	12.0	21	23	6.5	16.5	10.0	13	4.90	25
95	M8	<b>47R8</b>	12.0	21	23	8.5	16.5	10.0	14	4.80	25
	M10	<b>47R10</b>	12.0	21	23	10.5	16.5	12.0	16	4.88	25
	M12	<b>47R12</b>	12.0	21	23	13.0	16.5	13.0	18	4.99	25
	M14	<b>47R14</b>	12.0	21	23	15.0	16.5	14.5	20	5.38	25
	M16	<b>47R16</b>	12.0	21	28	17.0	16.5	16.0	22	5.35	25
95	M20	<b>47R20</b>	12.0	21	30	21.0	16.5	19.0	24	5.30	25
	M8	<b>48R8</b>	13.5	25	26	8.5	18.0	12.0	14	5.89	25
	M10	<b>48R10</b>	13.5	25	26	10.5	18.0	12.0	17	5.88	25
	M12	<b>48R12</b>	13.5	25	26	13.0	18.0	13.0	18	5.93	25
	M14	<b>48R14</b>	13.5	25	26	15.0	18.0	14.5	20	6.03	25
95	M16	<b>48R16</b>	13.5	25	28	17.0	18.0	16.0	22	6.17	25
	M20	<b>48R20</b>	13.5	25	36	21.0	18.0	22.0	24	6.42	25



### Tubular angle cable lugs

- standard type, 90° angle
- material: E-copper
- surface: tin plated



Cross section mm <sup>2</sup>	Bolt size Ø	Part No.	Dimensions mm							Weight/ 100 pcs. ~ kg	pcs.
			d1	a	b	d2	d4	c1	l3		
120	M8	49R8	15.0	26	28	8.5	19.5	14.0	16	7.26	10
	M10	49R10	15.0	26	28	10.5	19.5	14.0	17	7.30	10
	M12	49R12	15.0	26	28	13.0	19.5	14.0	18	7.19	10
	M14	49R14	15.0	26	28	15.0	19.5	15.0	20	7.30	10
	M16	49R16	15.0	26	30	17.0	19.5	16.0	22	7.35	10
	M20	49R20	15.0	26	36	21.0	19.5	22.0	24	7.60	10
150	M8	50R8	16.5	30	31	8.5	21.0	14.0	16	8.41	10
	M10	50R10	16.5	30	31	10.5	21.0	14.0	17	8.27	10
	M12	50R12	16.5	30	31	13.0	21.0	15.0	18	8.34	10
	M14	50R14	16.5	30	31	15.0	21.0	15.0	20	8.52	10
	M16	50R16	16.5	30	31	17.0	21.0	16.0	22	8.62	10
	M20	50R20	16.5	30	36	21.0	21.0	22.0	24	9.10	10
185	M10	51R10	19.0	30	35	10.5	24.0	18.0	22	12.17	10
	M12	51R12	19.0	30	35	13.0	24.0	18.0	22	11.97	10
	M14	51R14	19.0	30	35	15.0	24.0	18.0	22	11.77	10
	M16	51R16	19.0	30	35	17.0	24.0	18.0	22	11.53	10
	M20	51R20	19.0	30	39	21.0	24.0	22.0	24	12.00	10
240	M10	52R10	21.0	35	39	10.5	26.0	21.5	22	15.60	10
	M12	52R12	21.0	35	39	13.0	26.0	21.5	22	15.60	10
	M14	52R14	21.0	35	39	15.0	26.0	21.5	22	15.41	10
	M16	52R16	21.0	35	39	17.0	26.0	21.5	22	15.18	10
	M20	52R20	21.0	35	39	21.0	26.0	21.5	24	14.80	10
300	M12	53R12	23.5	44	43	13.0	29.5	24.0	24	23.60	5
	M14	53R14	23.5	44	43	15.0	29.5	24.0	24	23.40	5
	M16	53R16	23.5	44	43	17.0	29.5	24.0	24	20.99	5
	M20	53R20	23.5	44	43	21.0	29.5	24.0	24	22.70	5
400	M12	54R12	27.0	44	49	13.0	34.0	24.0	24	32.53	5
	M14	54R14	27.0	44	49	15.0	34.0	24.0	24	33.40	5
	M16	54R16	27.0	44	49	17.0	34.0	24.0	24	32.60	5
	M20	54R20	27.0	44	49	21.0	34.0	24.0	24	31.80	5

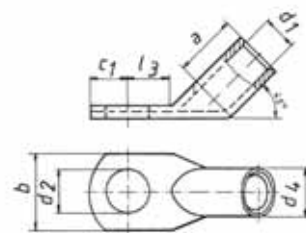
>> Tool: see chart page 1.29





### Tubular angle cable lugs

- standard type, 45° angle
- material: E-copper
- surface: tin plated

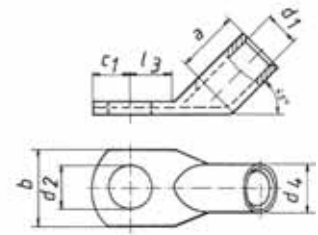


Cross section mm <sup>2</sup>	Bolt size Ø	Part No.	Dimensions mm							Weight/ 100 pcs.	
			d1	a	b	d2	d4	c1	l3	~ kg	pcs.
6	M5	41R545	3.5	9	10	5.5	6.5	7.5	9	0.60	50
	M6	41R645	3.5	9	12	6.5	6.5	7.5	10	0.58	50
	M8	41R845	3.5	9	14	8.5	6.5	10.0	13	0.68	50
	M10	41R1045	3.5	9	17	10.5	6.5	12.0	15	0.70	50
	M12	41R1245	3.5	9	19	13.0	6.5	13.0	17	0.70	50
10	M5	42R545	4.5	10	12	5.5	7.0	6.5	10	0.57	50
	M6	42R645	4.5	10	12	6.5	7.0	6.5	10	0.57	50
	M8	42R845	4.5	10	15	8.5	7.0	10.0	13	0.63	50
	M10	42R1045	4.5	10	17	10.5	7.0	12.0	15	0.68	50
	M12	42R1245	4.5	10	19	13.0	7.0	13.0	18	0.68	50
16	M5	43R545	5.5	13	12	5.5	8.5	7.5	10	1.01	50
	M6	43R645	5.5	13	12	6.5	8.5	7.5	11	1.06	50
	M8	43R845	5.5	13	15	8.5	8.5	10.0	13	1.15	50
	M10	43R1045	5.5	13	17	10.5	8.5	12.0	15	1.09	50
	M12	43R1245	5.5	13	19	13.0	8.5	13.0	18	1.15	50
25	M5	44R545	7.0	15	14	5.5	10.0	7.5	11	1.40	25
	M6	44R645	7.0	15	14	6.5	10.0	7.5	11	1.32	25
	M8	44R845	7.0	15	16	8.5	10.0	10.0	13	1.44	25
	M10	44R1045	7.0	15	18	10.5	10.0	12.0	15	1.49	25
	M12	44R1245	7.0	15	19	13.0	10.0	13.0	18	1.44	25
	M14	44R1445	7.0	15	21	15.0	10.0	14.5	20	1.55	25
35	M6	45R645	8.5	17	17	6.5	12.0	7.5	11	2.05	25
	M8	45R845	8.5	17	17	8.5	12.0	10.0	13	2.20	25
	M10	45R1045	8.5	17	19	10.5	12.0	12.0	15	2.28	25
	M12	45R1245	8.5	17	21	13.0	12.0	13.0	18	2.38	25
	M14	45R1445	8.5	17	21	15.0	12.0	14.5	20	2.41	25
	M16	45R1645	8.5	17	26	17.0	12.0	16.0	22	2.40	25
50	M6	46R645	10.0	19	20	6.5	14.0	10.0	13	3.43	25
	M8	46R845	10.0	19	20	8.5	14.0	10.0	13	3.28	25
	M10	46R1045	10.0	19	20	10.5	14.0	12.0	16	3.47	25
	M12	46R1245	10.0	19	23	13.0	14.0	13.0	18	3.42	25
	M14	46R1445	10.0	19	23	15.0	14.0	14.5	20	3.65	25
	M16	46R1645	10.0	19	28	17.0	14.0	16.0	22	3.76	25
70	M20	46R2045	10.0	19	30	21.0	14.0	19.0	24	3.30	25
	M6	47R645	12.0	21	23	6.5	16.5	10.0	13	5.06	25
	M8	47R845	12.0	21	23	8.5	16.5	10.0	14	5.06	25
	M10	47R1045	12.0	21	23	10.5	16.5	12.0	16	5.25	25
	M12	47R1245	12.0	21	23	13.0	16.5	13.0	18	5.30	25
	M14	47R1445	12.0	21	23	15.0	16.5	14.5	20	5.60	25
95	M16	47R1645	12.0	21	28	17.0	16.5	16.0	22	5.61	25
	M20	47R2045	12.0	21	30	21.0	16.5	19.0	24	5.60	25
	M8	48R845	13.5	25	26	8.5	18.0	12.0	14	6.19	25
	M10	48R1045	13.5	25	26	10.5	18.0	12.0	17	5.70	25
	M12	48R1245	13.5	25	26	13.0	18.0	13.0	18	6.67	25
	M14	48R1445	13.5	25	26	15.0	18.0	14.5	20	6.60	25
95	M16	48R1645	13.5	25	28	17.0	18.0	16.0	22	6.78	25
	M20	48R2045	13.5	25	36	21.0	18.0	22.0	24	6.80	25



### Tubular angle cable lugs

- standard type, 45° angle
- material: E-copper
- surface: tin plated



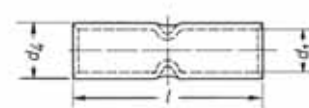
Cross section mm <sup>2</sup>	Bolt size Ø	Part No.	Dimensions mm								Weight/ 100 pcs. ~ kg	pcs.
			d1	a	b	d2	d4	c1	l3			
120	M8	<b>49R845</b>	15.0	26	28	8.5	19.5	14.0	16	7.92	10	
	M10	<b>49R1045</b>	15.0	26	28	10.5	19.5	14.0	17	7.99	10	
	M12	<b>49R1245</b>	15.0	26	28	13.0	19.5	14.0	18	7.96	10	
	M14	<b>49R1445</b>	15.0	26	28	15.0	19.5	15.0	20	7.94	10	
	M16	<b>49R1645</b>	15.0	26	30	17.0	19.5	16.0	22	8.26	10	
	M20	<b>49R2045</b>	15.0	26	36	21.0	19.5	22.0	24	8.20	10	
150	M8	<b>50R845</b>	16.5	30	31	8.5	21.0	14.0	16	9.00	10	
	M10	<b>50R1045</b>	16.5	30	31	10.5	21.0	14.0	17	9.15	10	
	M12	<b>50R1245</b>	16.5	30	31	13.0	21.0	15.0	18	8.75	10	
	M14	<b>50R1445</b>	16.5	30	31	15.0	21.0	15.0	20	9.20	10	
	M16	<b>50R1645</b>	16.5	30	31	17.0	21.0	16.0	22	9.22	10	
	M20	<b>50R2045</b>	16.5	30	36	21.0	21.0	22.0	24	9.26	10	
185	M10	<b>51R1045</b>	19.0	30	35	10.5	24.0	18.0	22	13.30	10	
	M12	<b>51R1245</b>	19.0	30	35	13.0	24.0	18.0	22	13.32	10	
	M14	<b>51R1445</b>	19.0	30	35	15.0	24.0	18.0	22	13.40	10	
	M16	<b>51R1645</b>	19.0	30	35	17.0	24.0	18.0	22	12.80	10	
	M20	<b>51R2045</b>	19.0	30	39	21.0	24.0	22.0	24	13.10	10	
240	M10	<b>52R1045</b>	21.0	35	39	10.5	26.0	21.5	22	16.28	10	
	M12	<b>52R1245</b>	21.0	35	39	13.0	26.0	21.5	22	16.80	10	
	M14	<b>52R1445</b>	21.0	35	39	15.0	26.0	21.5	22	16.40	10	
	M16	<b>52R1645</b>	21.0	35	39	17.0	26.0	21.5	22	16.10	10	
	M20	<b>52R2045</b>	21.0	35	39	21.0	26.0	21.5	24	16.10	10	
300	M12	<b>53R1245</b>	23.5	44	43	13.0	29.5	24.0	24	24.08	5	
	M14	<b>53R1445</b>	23.5	44	43	15.0	29.5	24.0	24	24.20	5	
	M16	<b>53R1645</b>	23.5	44	43	17.0	29.5	24.0	24	23.23	5	
	M20	<b>53R2045</b>	23.5	44	43	21.0	29.5	24.0	24	23.50	5	
400	M12	<b>54R1245</b>	27.0	44	49	13.0	34.0	24.0	24	34.00	5	
	M14	<b>54R1445</b>	27.0	44	49	15.0	34.0	24.0	24	33.40	5	
	M16	<b>54R1645</b>	27.0	44	49	17.0	34.0	24.0	24	34.28	5	
	M20	<b>54R2045</b>	27.0	44	49	21.0	34.0	24.0	24	31.80	5	

>> Tool: see chart page 1.29



### Butt-connectors

- standard type
- material: E-copper
- surface: tin plated
- also available without stop



Cross section mm <sup>2</sup>	Part No.*	Dimensions mm			Weight/ 100 pcs.	
		d1	d4	l	~ kg	pcs.
0.75	17R	1.3	2.8	20	0.09	100
1.5	18R	1.8	3.3	25	0.12	100
2.5	19R	2.3	4.2	25	0.20	100
4	20R	3.0	5.0	25	0.26	100
6	21R	3.5	6.5	25	0.50	100
10	22R	4.5	7.0	30	0.72	100
16	23R	5.5	8.5	35	1.00	100
25	24R	7.0	10.0	40	1.41	50
35	25R	8.5	12.0	45	2.24	50
50	26R	10.0	14.0	50	3.36	50
70	27R	12.0	16.5	55	4.87	50
95	28R	13.5	18.0	60	5.91	25
120	29R	15.0	19.5	65	7.00	25
150	30R	16.5	21.0	70	8.12	10
185	31R	19.0	24.0	75	10.06	10
240	32R	21.0	26.0	85	13.82	10
300	33R	23.5	29.5	100	21.94	5
400	34R	27.0	34.0	100	29.65	5

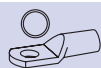
\*Part number for "without stop" version with appendix "om"

>> Tool: see chart page 1.29



### Butt-connectors

- special type, for solid conductors
- material: E-copper
- surface: tin plated  
without wirestop



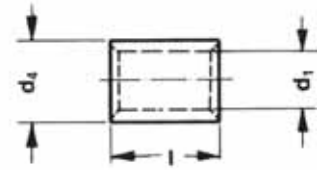
Cross section mm <sup>2</sup>	Part No.	Wire	Dimensions mm			Weight/ 100 pcs.	
		∅	d1	d4	l	~ kg	pcs.
1.5-2.5	SV1525	1.38/1.78	1.9	3.9	25	0.210	100
4	SV4	2.25	2.4	4.4	25	0.240	100
6	SV6	2.75	3.0	5.0	25	0.275	100
10	SV10	3.55	4.0	6.0	25	0.350	100
16	SV16	4.5	5.0	8.0	35	0.960	100
25	SV25	5.65	6.2	10.0	40	1.700	50
35	SV35	6.7	7.0	10.0	40	1.420	50
50	SV50	8	8.5	12.0	70	3.550	50

>> Tool: see chart page 1.30



### Parallel-connectors

- standard type
- material: E-copper
- surface: tin plated



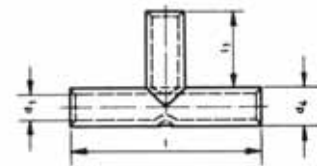
Total cross section mm <sup>2</sup>	Part No.	Dimensions mm			Weight/ 100 pcs. ~ kg	pcs.
		d1	d4	l		
1.5	148R	1.8	3.3	5	0.03	100
2.5	149R	2.3	4.2	5	0.04	100
4	150R	3.0	5.0	7	0.08	100
6	151R	4.0	6.0	7	0.09	100
10	152R	4.5	7.0	9	0.17	100
16	153R	5.5	8.5	10	0.28	100
25	154R	7.0	10.0	13	0.44	100
35	155R	8.5	12.0	16	0.78	100
50	156R	10.0	14.0	19	1.22	100
70	157R	12.0	16.5	19	1.62	50
95	158R	13.5	18.0	20	1.90	50
120	159R	15.0	19.5	22	2.28	50
150	160R	16.5	21.0	26	3.00	50
185	161R	19.0	24.0	30	4.37	50
240	162R	21.0	26.0	32	5.30	25
300	163R	23.5	29.5	36	8.05	25

>> Tool: see chart page 1.29



### T-connectors

- standard type
- material: E-copper
- surface: tin plated



Cross section mm <sup>2</sup>	Part No.	Dimensions mm				Weight/ 100 pcs. ~ kg	pcs.
		d1	d4	l	l1		
1.5	TV15	1.8	3.3	30	12	0.23	50
2.5	TV2.5	2.3	4.2	30	12	0.37	50
4	TV4	3.0	5.0	30	12	0.45	50
6	TV6	4.0	6.0	35	14	0.73	50
10	TV10	4.5	7.0	35	14	1.05	50
16	TV16	5.5	8.5	50	21	2.20	50
25	TV25	7.0	10.0	55	23	2.90	25
35	TV35	8.5	12.0	70	30	5.20	25
50	TV50	10.0	14.0	80	34	7.90	25
70	TV70	12.0	16.5	85	35	11.20	10
95	TV95	13.5	18.0	90	36	13.00	10
120	TV120	15.0	19.5	95	38	14.70	10
150	TV150	16.5	21.0	110	44	18.90	10
185	TV185	19.0	24.0	115	45	25.00	5
240	TV240	21.0	26.0	130	52	31.10	5

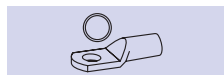
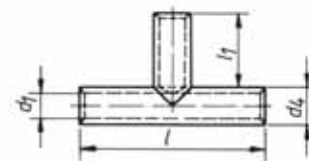
>> Tool: see chart page 1.29





### T-connectors

- special type, for solid conductors
- material: E-copper
- surface: tin plated without wirestop



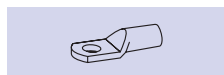
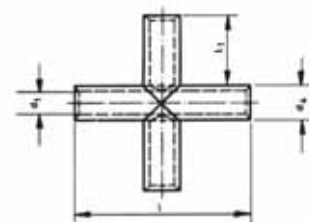
Cross section mm <sup>2</sup>	Part No.	Wire Ø	Dimensions mm				Weight/100 pcs.	
			d1	d4	l	l1	~ kg	pcs.
1.5-2.5	STV1525	1.38/1.78	1.9	3.9	30	12	0.34	50
4	STV4	2.25	2.4	4.4	30	12	0.40	50
6	STV6	2.75	3.0	5.0	30	12	0.48	50
10	STV10	3.55	4.0	6.0	35	14	0.72	50
16	STV16	4.5	5.0	8.0	35	14	1.40	50
25	STV25	5.65	6.2	10.0	50	21	3.20	25
35	STV35	6.7	7.0	10.0	55	23	2.95	25
50	STV50	8	8.5	12.0	76	32	5.60	25

>> Tool: see chart page 1.30



### Cross-connectors

- standard type
- material: E-copper
- surface: tin plated



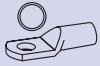
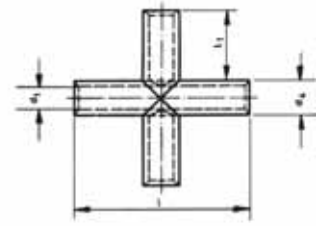
Cross section mm <sup>2</sup>	Part No.	Dimensions mm				Weight/100 pcs.	
		d1	d4	l	l1	~ kg	pcs.
1.5	KV15	1.8	3.3	30	12	0.320	25
2.5	KV2.5	2.3	4.2	30	12	0.490	25
4	KV4	3.0	5.0	30	12	0.650	25
6	KV6	4.0	6.0	35	14	0.950	25
10	KV10	4.5	7.0	35	14	1.350	25
16	KV16	5.5	8.5	50	21	2.950	25
25	KV25	7.0	10.0	55	23	4.000	15
35	KV35	8.5	12.0	70	30	6.900	15
50	KV50	10.0	14.0	80	34	10.400	15
70	KV70	12.0	16.5	85	35	14.600	15
95	KV95	13.5	18.0	90	36	17.100	15
120	KV120	15.0	19.5	95	38	19.400	5
150	KV150	16.5	21.0	110	44	24.100	5
185	KV185	19.0	24.0	115	45	32.100	5
240	KV240	21.0	26.0	130	52	41.100	5

>> Tool: see chart page 1.29



### Cross-connectors

- special type, for solid conductors
- material: E-copper
- surface: tin plated



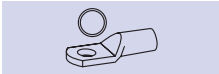
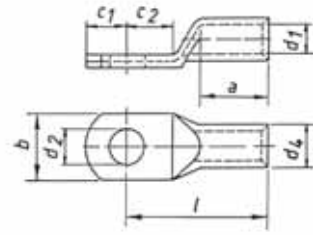
Cross section mm <sup>2</sup>	Part No.	Wire ∅	Dimensions mm				Weight/ 100 pcs.	
			d1	d4	l	l1	~ kg	pcs.
1.5-2.5	<b>SKV1525</b>	1.38/1.78	1.9	3.9	30	12	0.47	25
4	<b>SKV4</b>	2.25	2.4	4.4	30	12	0.56	25
6	<b>SKV6</b>	2.75	3.0	5.0	30	12	0.67	25
10	<b>SKV10</b>	3.55	4.0	6.0	35	14	0.92	25
16	<b>SKV16</b>	4.5	5.0	8.0	35	14	1.86	25
25	<b>SKV25</b>	5.65	6.2	10.0	50	21	4.20	15
35	<b>SKV35</b>	6.7	7.0	10.0	55	23	3.80	15
50	<b>SKV50</b>	8	8.5	12.0	76	32	7.35	15

>> Tool: see chart page 1.30



**Tubular cable lugs**

- special type, for solid conductors
- material: E-copper
- surface: tin plated



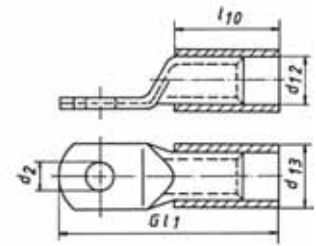
Cross section mm <sup>2</sup>	Bolt size Ø	Part No.	Dimensions mm									Weight/ 100 pcs. ~ kg	pcs.
			d1	a	b	d2	d4	c1	c2	l			
6	M5	<b>SR65</b>	3.0	8	9.0	5.3	5	4.75	6.0	17.0	0.213	25	
	M6	<b>SR66</b>	3.0	8	10.0	6.5	5	6.50	6.5	19.0	0.220	25	
10	M6	<b>SR106</b>	4.0	9	10.0	6.5	6	7.00	6.5	19.0	0.300	25	
	M8	<b>SR108</b>	4.0	9	14.0	8.5	6	8.50	9.5	22.0	0.320	25	
16	M6	<b>SR166</b>	5.0	12	12.5	6.5	8	6.50	7.0	23.5	0.800	25	
	M8	<b>SR168</b>	5.0	12	15.0	8.5	8	9.00	9.0	26.0	0.900	25	
25	M6	<b>SR256</b>	6.2	15	14.0	6.5	10	7.50	7.5	30.0	1.560	25	
	M8	<b>SR258</b>	6.2	15	16.0	8.5	10	10.00	10.0	32.0	1.700	25	
35	M6	<b>SR356</b>	7.0	15	14.0	6.5	10	7.50	7.5	30.0	1.200	25	
	M8	<b>SR358</b>	7.0	15	16.0	8.5	10	10.00	10.0	32.0	1.310	25	
	M10	<b>SR3510</b>	7.0	15	18.0	10.5	10	12.00	12.0	34.0	1.570	25	
50	M6	<b>SR506</b>	8.5	17	17.0	6.5	12	7.50	7.5	32.0	1.850	25	
	M8	<b>SR508</b>	8.5	17	17.0	8.5	12	10.00	10.0	34.0	2.000	25	
	M10	<b>SR5010</b>	8.5	17	19.0	10.5	12	12.00	12.0	37.0	2.130	25	

>> Tool: see chart page 1.30



### Tubular cable lugs, insulated

- standard type
- material: cable lug E-copper
- surface: tin plated
- with or without inspection hole
- material: insulating sleeve PA, free of halide



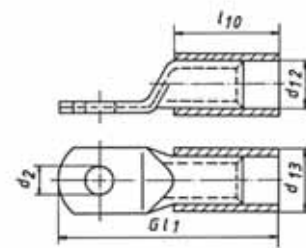
Cross section mm <sup>2</sup>	Bolt size Ø	Part No.*	Dimensions mm**					Weight 100 pcs. ~ kg		pcs.	Colour
			d2	d12	d13	G11	l10	Cu	Total		
10	M5	602R5	5.5	7.0	9.0	35.5	17.0	0.50	0.548	25	■
	M6	602R6	6.5	7.0	9.0	35.5	17.0	0.49	0.538	25	■
	M8	602R8	8.5	7.0	9.0	42.0	17.0	0.58	0.628	25	■
	M10	602R10	10.5	7.0	9.0	46.0	17.0	0.62	0.668	25	■
	M12	602R12	13.0	7.0	9.0	49.0	17.0	0.64	0.688	25	■
16	M5	603R5	5.5	8.5	10.5	39.5	21.0	0.84	0.907	25	■
	M6	603R6	6.5	8.5	10.5	41.3	21.0	0.86	0.927	25	■
	M8	603R8	8.5	8.5	10.5	45.5	21.0	0.93	0.997	25	■
	M10	603R10	10.5	8.5	10.5	49.5	21.0	0.99	1.057	25	■
	M12	603R12	13.0	8.5	10.5	54.0	21.0	1.02	1.087	25	■
25	M5	604R5	5.5	10.0	12.0	45.0	24.0	1.22	1.312	25	■
	M6	604R6	6.5	10.0	12.0	46.5	24.0	1.20	1.292	25	■
	M8	604R8	8.5	10.0	12.0	51.0	24.0	1.31	1.402	25	■
	M10	604R10	10.5	10.0	12.0	55.0	24.0	1.57	1.662	25	■
	M12	604R12	13.0	10.0	12.0	57.0	24.0	1.39	1.482	25	■
	M14	604R14	15.0	10.0	12.0	61.5	24.0	1.49	1.582	25	■
35	M6	605R6	6.5	12.0	14.5	49.5	27.0	1.85	2.010	25	■
	M8	605R8	8.5	12.0	14.5	54.0	27.0	2.00	2.160	25	■
	M10	605R10	10.5	12.0	14.5	59.0	27.0	2.13	2.290	25	■
	M12	605R12	13.0	12.0	14.5	61.0	27.0	2.12	2.280	25	■
	M14	605R14	15.0	12.0	14.5	64.5	27.0	2.18	2.340	25	■
50	M16	605R16	17.0	12.0	14.5	68.0	27.0	2.24	2.400	25	■
	M6	606R6	6.5	14.0	16.5	59.0	32.0	3.00	3.220	25	■
	M8	606R8	8.5	14.0	16.5	59.0	32.0	2.93	3.150	25	■
	M10	606R10	10.5	14.0	16.5	63.0	32.0	3.08	3.300	25	■
	M12	606R12	13.0	14.0	16.5	68.0	32.0	3.23	3.450	25	■
	M14	606R14	15.0	14.0	16.5	71.5	32.0	3.32	3.540	25	■
	M16	606R16	17.0	14.0	16.5	77.0	32.0	3.38	3.600	25	■
70	M20	606R20	21.0	14.0	16.5	83.5	32.0	3.46	3.680	25	■
	M6	607R6	6.5	16.4	18.9	65.5	33.5	4.49	4.760	25	■
	M8	607R8	8.5	16.4	18.9	65.5	33.5	4.38	4.650	25	■
	M10	607R10	10.5	16.4	18.9	66.5	33.5	4.54	4.810	25	■
	M12	607R12	13.0	16.4	18.9	70.5	33.5	4.63	4.900	25	■
	M14	607R14	15.0	16.4	18.9	73.5	33.5	4.76	5.030	25	■
	M16	607R16	17.0	16.4	18.9	78.5	33.5	4.24	4.510	25	■
	M20	607R20	21.0	16.4	18.9	84.5	33.5	5.09	5.360	25	■





### Tubular cable lugs, insulated

- standard type
- material: cable lug E-copper
- surface: tin plated
- with or without inspection hole
- material: insulating sleeve PA, free of halide



Cross section mm <sup>2</sup>	Bolt size Ø	Part No.*	Dimensions mm**					Weight 100 pcs. ~ kg		pcs.	Colour
			d2	d12	d13	G11	l10	Cu	Total		
95	M8	<b>608R8</b>	8.5	17.8	20.8	74.0	40.0	5.44	5.85	25	■
	M10	<b>608R10</b>	10.5	17.8	20.8	74.0	40.0	5.40	5.81	25	■
	M12	<b>608R12</b>	13.0	17.8	20.8	76.0	40.0	5.56	5.97	25	■
	M14	<b>608R14</b>	15.0	17.8	20.8	79.5	40.0	5.62	6.03	25	■
	M16	<b>608R16</b>	17.0	17.8	20.8	84.0	40.0	5.82	6.23	25	■
	M20	<b>608R20</b>	21.0	17.8	20.8	96.0	40.0	6.71	7.12	25	■
120	M8	<b>609R8</b>	8.5	19.3	22.3	80.5	41.5	6.72	7.18	10	■
	M10	<b>609R10</b>	10.5	19.3	22.3	80.5	41.5	6.57	7.03	10	■
	M12	<b>609R12</b>	13.0	19.3	22.3	80.5	41.5	6.38	6.84	10	■
	M14	<b>609R14</b>	15.0	19.3	22.3	82.5	41.5	6.45	6.91	10	■
	M16	<b>609R16</b>	17.0	19.3	22.3	85.5	41.5	6.51	6.97	10	■
	M20	<b>609R20</b>	21.0	19.3	22.3	100.5	41.5	7.74	8.20	10	■
150	M8	<b>610R8</b>	8.5	20.8	23.8	88.0	48.0	7.78	8.36	10	■
	M10	<b>610R10</b>	10.5	20.8	23.8	88.0	48.0	7.62	8.20	10	■
	M12	<b>610R12</b>	13.0	20.8	23.8	89.0	48.0	7.73	8.31	10	■
	M14	<b>610R14</b>	15.0	20.8	23.8	90.0	48.0	7.64	8.22	10	■
	M16	<b>610R16</b>	17.0	20.8	23.8	92.0	48.0	7.53	8.11	10	■
	M20	<b>610R20</b>	21.0	20.8	23.8	106.0	48.0	8.80	9.38	10	■

\*Part number for inspection hole version with appendix "ms".

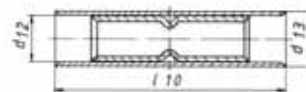
\*\*Dimensions of tubular cable lugs see catalogue page 1.5 + 1.6

>> Tool: see chart page 1.30



### Butt-connectors, insulated

- standard type
- material: connector E-copper
- surface: tin plated
- material: insulating sleeve PA, free of halide



Cross section mm <sup>2</sup>	Part No.	Dimensions mm**			Weight 100 pcs. ~ kg		pcs.	Colour
		d12	d13	l10	Cu	Total		
10	<b>622R</b>	7.0	9.0	42	0.72	0.84	25	■
16	<b>623R</b>	8.5	10.5	50	1.00	1.16	25	■
25	<b>624R</b>	10.0	12.0	57	1.41	1.63	25	■
35	<b>625R</b>	12.0	14.4	65	2.24	2.60	25	■
50	<b>626R</b>	14.0	16.4	72	3.36	3.81	25	■
70	<b>627R</b>	16.4	19.0	80	4.87	5.46	25	■
95	<b>628R</b>	17.8	20.8	87	5.91	6.74	25	■
120	<b>629R</b>	19.3	22.3	94	7.00	7.96	10	■
150	<b>630R</b>	20.8	23.8	103	8.12	9.32	10	■

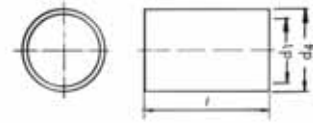
\*\*Dimensions of the butt-connectors see catalogue page 1.10

>> Tool: see chart page 1.30



### Sleeves for compacted conductors\*

- for tubular cable lugs and connectors "standard type"
- material: E-copper
- surface: tin plated
- for round shaped conductors
- pre-rounding dies see chapter 11



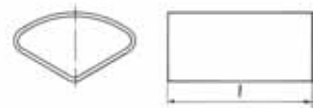
Cross section mm <sup>2</sup>	Part No.	Dimensions mm			Weight/ 100 pcs.	
		d1	d4	l	~ kg	pcs.
16	VHR16	5.0	5.3	11	0.024	100
25	VHR25	6.4	6.7	14	0.038	100
35	VHR35	7.7	8.2	15	0.083	100
50	VHR50	9.0	9.5	18	0.118	50
70	VHR70	10.6	11.2	19	0.173	50
95	VHR95	12.4	13.0	21	0.223	50
120	VHR120	13.9	14.5	22	0.261	50
150	VHR150	15.4	16.0	26	0.342	25
185	VHR185	17.6	18.2	26	0.396	25
240	VHR240	19.9	20.5	30	0.508	25
300	VHR300	22.4	23.0	38	0.723	10
400	VHR400	25.4	26.2	38	1.108	10

\*See instructions catalogue page 12.6



### Sleeves for compacted conductors\*

- for tubular cable lugs and connectors "standard type"
- material: E-copper
- surface: tin plated
- for 3 core shaped conductors (120° angle)
- pre-rounding dies see chapter 11



Cross section mm <sup>2</sup>	Part No.	Dim. mm l	Weight/ 100 pcs.	
			~ kg	pcs.
35	VHR353	14	0.08	100
50	VHR503	17	0.17	50
70	VHR703	18	0.29	50
95	VHR953	22	0.45	50
120	VHR1203	23	0.49	50
150	VHR1503	25	0.58	25
185	VHR1853	25	0.80	25
240	VHR2403	30	1.04	25

\*See instructions catalogue page 12.6



### Sleeves for compacted conductors\*

- for tubular cable lugs and connectors "standard type"
- material: E-copper
- surface: tin plated
- for 4 core shaped conductors (90° angle)
- pre-rounding dies see chapter 11



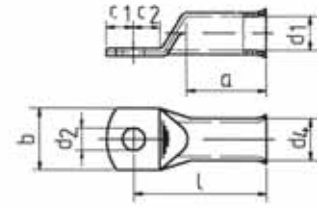
Cross section mm <sup>2</sup>	Part No.	Dim. mm l	Weight/ 100 pcs. ~ kg	pcs.
35	<b>VHR354</b>	14	0.13	100
50	<b>VHR504</b>	17	0.17	50
70	<b>VHR704</b>	18	0.28	50
95	<b>VHR954</b>	22	0.40	50
120	<b>VHR1204</b>	23	0.51	50
150	<b>VHR1504</b>	25	0.57	25
185	<b>VHR1854</b>	25	0.78	25
240	<b>VHR2404</b>	30	0.85	25

\*See instructions catalogue page 12.6



### Tubular cable lugs

- for fine stranded conductors, DIN VDE 57295
- flared cable entry to ease insertion
- material: E-copper
- surface: tin plated
- with or without inspection hole

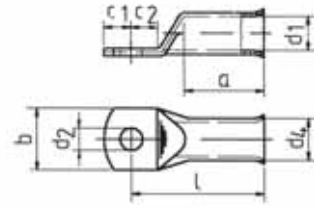


Cross section mm <sup>2</sup>	Bolt size Ø	Part No.*	Dimensions mm									Weight/ 100 pcs. ~ kg	pcs.
			d1	a	b	d2	d4	c1	c2	l			
10	M5	702F5	5.5	14	12	5.3	8.0	6.25	7.5	27	0.72	100	
	M6	702F6	5.5	14	12	6.5	8.0	6.25	7.5	27	0.71	100	
	M8	702F8	5.5	14	16	8.5	8.0	8.50	9.5	29	0.77	100	
	M10	702F10	5.5	14	16	10.5	8.0	10.50	11.5	31	0.82	100	
	M12	702F12	5.5	14	19	13.0	8.0	12.00	13.0	32	0.82	100	
16	M5	703F5	6.6	15	13	5.3	9.5	6.25	7.5	30	1.10	100	
	M6	703F6	6.6	15	13	6.5	9.5	6.25	7.5	30	1.07	100	
	M8	703F8	6.6	15	16	8.5	9.5	10.00	10.0	32	1.21	100	
	M10	703F10	6.6	15	17	10.5	9.5	12.00	12.0	34	1.28	100	
	M12	703F12	6.6	15	19	13.0	9.5	13.00	13.0	35	1.28	100	
25	M5	704F5	7.9	17	15	5.3	11.0	7.50	7.5	32	1.52	25	
	M6	704F6	7.9	17	15	6.5	11.0	7.50	7.5	32	1.50	100	
	M8	704F8	7.9	17	17	8.5	11.0	10.00	10.0	34	1.61	100	
	M10	704F10	7.9	17	17	10.5	11.0	12.00	12.0	37	1.71	100	
	M12	704F12	7.9	17	19	13.0	11.0	13.00	13.0	38	1.74	25	
35	M6	705F6	9.2	19	17	6.5	12.5	7.50	7.5	35	1.91	100	
	M8	705F8	9.2	19	18	8.5	12.5	10.00	10.0	37	2.08	100	
	M10	705F10	9.2	19	18	10.5	12.5	12.00	12.0	40	2.24	100	
	M12	705F12	9.2	19	19	13.0	12.5	13.00	13.0	41	2.22	25	
	M14	705F14	9.2	19	21	15.0	12.5	14.50	14.5	43	2.41	25	
50	M6	706F6	11.0	21	21	6.5	15.0	10.00	10.0	41	3.54	25	
	M8	706F8	11.0	21	21	8.5	15.0	10.00	10.0	41	3.44	50	
	M10	706F10	11.0	21	21	10.5	15.0	12.00	12.0	43	3.64	50	
	M12	706F12	11.0	21	21	13.0	15.0	13.00	13.0	46	3.73	50	
	M14	706F14	11.0	21	23	15.0	15.0	14.50	14.5	48	3.89	25	
	M16	706F16	11.0	21	28	17.0	15.0	16.00	16.0	50	4.02	25	
70	M8	707F8	13.0	25	25	8.5	17.0	10.00	10.0	46	4.46	50	
	M10	707F10	13.0	25	25	10.5	17.0	12.00	12.0	48	4.62	50	
	M12	707F12	13.0	25	25	13.0	17.0	13.00	13.0	50	4.71	50	
	M14	707F14	13.0	25	25	15.0	17.0	14.50	14.5	52	4.87	25	
	M16	707F16	13.0	25	25	17.0	17.0	16.00	16.0	54	5.85	25	
95	M8	708F8	14.5	26	28	8.5	19.0	12.00	12.0	52	6.35	25	
	M10	708F10	14.5	26	28	10.5	19.0	12.00	12.0	52	6.23	50	
	M12	708F12	14.5	26	28	13.0	19.0	13.00	13.0	53	6.31	50	
	M14	708F14	14.5	26	28	15.0	19.0	14.50	14.5	55	6.46	25	
	M16	708F16	14.5	26	28	17.0	19.0	16.00	16.0	56	6.56	50	
120	M10	709F10	16.2	30	30	10.5	21.0	14.00	14.0	57	8.31	50	
	M12	709F12	16.2	30	30	13.0	21.0	15.00	15.0	58	8.39	50	
	M14	709F14	16.2	30	30	15.0	21.0	15.00	15.0	58	8.06	25	
	M16	709F16	16.2	30	30	17.0	21.0	16.00	16.0	59	8.17	50	
	M20	709F20	16.2	30	36	21.0	21.0	22.00	22.0	66	9.56	25	
150	M10	710F10	18.0	32	34	10.5	23.0	15.00	16.0	64	10.91	10	
	M12	710F12	18.0	32	34	13.0	23.0	16.00	17.0	65	10.89	25	
	M14	710F14	18.0	32	34	15.0	23.0	18.00	19.0	67	11.42	10	
	M16	710F16	18.0	32	34	17.0	23.0	19.00	20.0	68	11.30	10	
	M20	710F20	18.0	32	40	21.0	23.0	21.00	22.0	70	11.36	10	



**Tubular cable lugs**

- for fine stranded conductors, DIN VDE 57295
- flared cable entry to ease insertion
- material: E-copper
- surface: tin plated
- with or without inspection hole



Cross section mm <sup>2</sup>	Bolt size Ø	Part No.*	Dimensions mm								Weight/ 100 pcs.	
			d1	a	b	d2	d4	c1	c2	l	~ kg	pcs.
185	M12	<b>711F12</b>	20.6	35	39	13	26	21.5	19	72	15.40	10
	M14	<b>711F14</b>	20.6	35	39	15	26	21.5	19	72	15.20	10
	M16	<b>711F16</b>	20.6	35	39	17	26	21.5	19	72	15.00	25
	M20	<b>711F20</b>	20.6	35	39	21	26	21.5	19	72	14.20	10
240	M12	<b>712F12</b>	23.1	44	41	13	28	16.0	17	80	16.30	10
	M14	<b>712F14</b>	23.1	44	41	15	28	19.0	20	83	16.80	10
	M16	<b>712F16</b>	23.1	44	41	17	28	19.0	20	83	16.71	25
	M20	<b>712F20</b>	23.1	44	41	21	28	21.0	22	85	17.12	10
300	M12	<b>713F12</b>	26.1	44	47	13	32	19.0	22	96	25.60	5
	M14	<b>713F14</b>	26.1	44	47	15	32	19.0	22	96	26.56	5
	M16	<b>713F16</b>	26.1	44	47	17	32	19.0	22	96	25.60	5
	M20	<b>713F20</b>	26.1	44	47	21	32	22.0	22	96	26.24	5

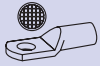
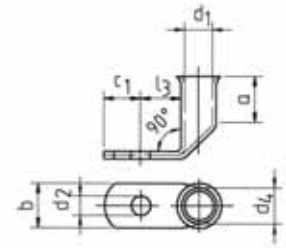
\*Part number for inspection hole version with appendix "ms"

>> Tool: see chart page 1.31

**Tubular angle cable lugs for fine stranded conductors Cu**
**Klauke®**

**Tubular angle cable lugs**

- for fine stranded conductors, DIN VDE 57295
- flared cable entry to ease insertion
- 90° angle, also available with 45° angle
- material: E-copper
- surface: tin plated

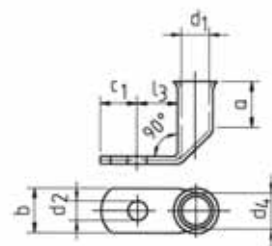


Cross section mm <sup>2</sup>	Bolt size Ø	Part No.*	Dimensions mm								Weight/ 100 pcs. ~ kg	pcs.
			d1	a	b	d2	d4	c1	l3 min.			
10	M5	742F5	5.5	14	12	5.3	8.0	6.25	7.5	0.80	50	
	M6	742F6	5.5	14	12	6.5	8.0	6.25	7.5	0.78	50	
	M8	742F8	5.5	14	16	8.5	8.0	9.00	9.5	0.84	50	
	M10	742F10	5.5	14	16	10.5	8.0	10.50	12.0	0.88	50	
	M12	742F12	5.5	14	19	13.0	8.0	12.00	13.0	0.90	50	
16	M5	743F5	6.6	15	13	5.3	9.5	6.25	7.5	1.12	50	
	M6	743F6	6.6	15	13	6.5	9.5	6.25	7.5	1.12	50	
	M8	743F8	6.6	15	16	8.5	9.5	10.00	10.0	1.30	50	
	M10	743F10	6.6	15	17	10.5	9.5	12.00	12.0	1.38	50	
	M12	743F12	6.6	15	19	13.0	9.5	13.00	13.0	1.34	50	
25	M5	744F5	7.9	17	15	5.3	11.0	7.50	7.5	1.52	25	
	M6	744F6	7.9	17	15	6.5	11.0	7.50	7.5	1.54	25	
	M8	744F8	7.9	17	17	8.5	11.0	10.00	10.0	1.80	25	
	M10	744F10	7.9	17	17	10.5	11.0	12.00	12.0	1.79	25	
	M12	744F12	7.9	17	19	13.0	11.0	13.00	13.0	1.76	25	
35	M6	745F6	9.2	19	17	6.5	12.5	7.50	7.5	2.02	25	
	M8	745F8	9.2	19	18	8.5	12.5	10.00	10.0	2.18	25	
	M10	745F10	9.2	19	18	10.5	12.5	12.00	12.0	2.30	25	
	M12	745F12	9.2	19	19	13.0	12.5	13.00	13.0	2.26	25	
	M14	745F14	9.2	19	21	15.0	12.5	14.50	14.5	2.65	25	
50	M6	746F6	11.0	21	21	6.5	15.0	10.00	10.0	3.75	25	
	M8	746F8	11.0	21	21	8.5	15.0	10.00	10.0	3.57	25	
	M10	746F10	11.0	21	21	10.5	15.0	12.00	12.0	3.83	25	
	M12	746F12	11.0	21	21	13.0	15.0	13.00	13.0	3.74	25	
	M14	746F14	11.0	21	23	15.0	15.0	14.50	14.5	4.20	25	
	M16	746F16	11.0	21	28	17.0	15.0	16.00	16.0	4.35	25	
70	M8	747F8	13.0	25	25	8.5	17.0	10.00	10.0	4.83	25	
	M10	747F10	13.0	25	25	11.0	17.0	12.00	12.0	5.18	25	
	M12	747F12	13.0	25	25	13.0	17.0	13.00	13.0	5.16	25	
	M14	747F14	13.0	25	25	15.0	17.0	14.50	14.5	5.38	25	
	M16	747F16	13.0	25	25	17.0	17.0	16.00	16.0	6.50	25	
95	M8	748F8	14.5	26	28	8.5	19.0	12.00	12.0	6.66	25	
	M10	748F10	14.5	26	28	11.0	19.0	12.00	12.0	6.04	25	
	M12	748F12	14.5	26	28	13.0	19.0	13.00	13.0	6.58	25	
	M14	748F14	14.5	26	28	15.0	19.0	14.50	14.5	7.24	25	
	M16	748F16	14.5	26	28	17.0	19.0	16.00	16.0	7.34	25	
120	M10	749F10	16.2	30	30	11.0	21.0	14.00	14.0	8.76	10	
	M12	749F12	16.2	30	30	13.0	21.0	15.00	15.0	8.76	10	
	M14	749F14	16.2	30	30	15.0	21.0	15.00	15.0	9.15	10	
	M16	749F16	16.2	30	30	17.0	21.0	16.00	16.0	8.54	10	
	M20	749F20	16.2	30	36	21.0	21.0	22.00	22.0	9.60	10	



### Tubular angle cable lugs

- for fine stranded conductors, DIN VDE 57295
- flared cable entry to ease insertion
- 90° angle, also available with 45° angle
- material: E-copper
- surface: tin plated



Cross section mm <sup>2</sup>	Bolt size Ø	Part No.*	Dimensions mm							Weight/ 100 pcs. ~ kg	pcs.
			d1	a	b	d2	d4	c1	l3 min.		
150	M10	<b>750F10</b>	18.0	32	34	11	23	15.0	16	11.54	10
	M12	<b>750F12</b>	18.0	32	34	13	23	16.0	18	11.58	10
	M14	<b>750F14</b>	18.0	32	34	15	23	18.0	19	11.90	10
	M16	<b>750F16</b>	18.0	32	34	17	23	19.0	20	11.80	10
	M20	<b>750F20</b>	18.0	32	40	21	23	21.0	22	12.00	10
185	M12	<b>751F12</b>	20.6	35	39	13	26	21.5	19	16.36	10
	M14	<b>751F14</b>	20.6	35	39	15	26	21.5	19	16.20	10
	M16	<b>751F16</b>	20.6	35	39	17	26	21.5	19	15.36	10
	M20	<b>751F20</b>	20.6	35	39	21	26	21.5	19	15.80	10

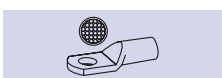
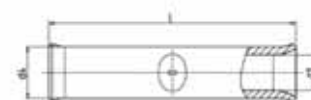
\*Part number for 45° angle version with appendix "45"

>> Tool: see chart page 1.31



### Butt-connectors

- for fine stranded conductors, DIN VDE 57295
- flared cable entry to ease insertion
- material: E-copper
- surface: tin plated



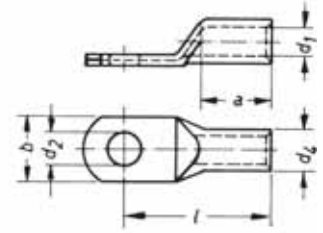
Cross section mm <sup>2</sup>	Part No.	Dimensions mm			Weight/ 100 pcs. ~ kg	pcs.
		d1	d4	l		
10	<b>722F</b>	5.5	8.0	38	0.90	100
16	<b>723F</b>	6.6	9.5	38	1.25	100
25	<b>724F</b>	7.9	11.0	38	1.56	50
35	<b>725F</b>	9.2	12.5	45	2.19	50
50	<b>726F</b>	11.0	15.0	45	3.37	50
70	<b>727F</b>	13.0	17.0	54	4.65	50
95	<b>728F</b>	14.5	19.0	56	6.05	25
120	<b>729F</b>	16.2	21.0	60	7.58	25
150	<b>730F</b>	18.0	23.0	68	9.83	10

>> Tool: see chart page 1.31



### Stainless steel tubular cable lugs

- material: stainless steel V2A
- heat resistant up to 400 °C
- for aggressive environmental factors
- ring type



Cross section mm <sup>2</sup>	Bolt size Ø	Part No.	Dimensions mm						Weight/ 100 pcs. ~ kg	pcs.
			d1	a	b	d2	d4	l		
0.5-1	M4	<b>79V4</b>	1.6	6	6.5	4.3	3.2	13	0.080	100
	M5	<b>79V5</b>	1.6	6	7.5	5.3	3.2	14	0.080	100
1.5-2.5	M4	<b>80V4</b>	3.0	8	9.0	4.3	5.0	17	0.260	100
	M5	<b>80V5</b>	3.0	8	9.0	5.5	5.0	17	0.190	100
	M6	<b>80V6</b>	3.0	8	9.5	6.5	5.0	19	0.215	100
4-6	M4	<b>81V4</b>	4.0	9	9.0	4.3	6.0	18	0.260	100
	M5	<b>81V5</b>	4.0	9	9.5	5.5	6.0	19	0.280	100
	M6	<b>81V6</b>	4.0	9	10.0	6.5	6.0	19	0.280	100
10	M5	<b>82V5</b>	5.0	10	12.5	5.5	8.0	22	0.710	100
	M6	<b>82V6</b>	5.0	10	12.5	6.5	8.0	22	0.780	100
	M8	<b>82V8</b>	5.0	10	15.0	8.5	8.0	25	0.780	100
16	M5	<b>83V5</b>	6.0	13	12.0	5.5	8.0	28	0.500	100
	M6	<b>83V6</b>	6.0	13	12.0	6.5	8.0	28	0.550	100
	M8	<b>83V8</b>	6.0	13	15.0	8.5	8.0	29	0.600	100
25	M6	<b>84V6</b>	7.0	15	14.0	6.5	10.0	30	1.210	50
	M8	<b>84V8</b>	7.0	15	16.0	8.5	10.0	32	1.850	50
35	M6	<b>85V6</b>	9.0	17	17.0	6.5	12.0	32	1.600	50
	M8	<b>85V8</b>	9.0	17	17.0	8.5	12.0	35	1.850	50
50	M6	<b>86V6</b>	10.0	19	20.0	6.5	14.0	37	2.800	50
	M8	<b>86V8</b>	10.0	19	20.0	8.5	14.0	37	2.600	50
	M10	<b>86V10</b>	10.0	19	20.0	10.5	14.0	39	2.800	50
	M12	<b>86V12</b>	10.0	19	20.0	13.0	14.0	43	2.960	50
70	M8	<b>87V8</b>	12.0	21	23.0	8.5	16.0	43	3.650	25
	M10	<b>87V10</b>	12.0	21	23.0	10.5	16.0	44	3.930	25
	M12	<b>87V12</b>	12.0	21	23.0	13.0	16.0	46	3.850	25
	M16	<b>87V16</b>	12.0	21	26.0	17.0	16.0	46	3.960	25
95	M8	<b>88V8</b>	14.0	25	26.0	8.5	18.0	48	4.650	25
	M10	<b>88V10</b>	14.0	25	26.0	10.5	18.0	48	5.610	25
	M12	<b>88V12</b>	14.0	25	26.0	13.0	18.0	49	5.540	25

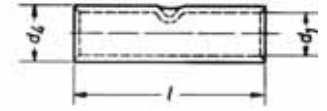
>> Tool: see chart page 1.31





**Stainless steel butt-connectors**

- material: stainless steel V2A
- heat resistant up to 400 °C
- for aggressive environmental factors



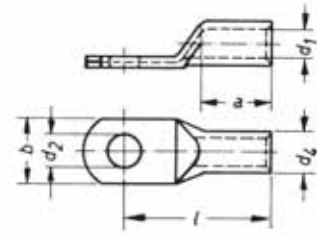
Cross section mm <sup>2</sup>	Part No.	Dimensions mm			Weight/ 100 pcs.	
		d1	d4	l	~ kg	pcs.
0.5-1	<b>79R</b>	1.6	3.2	25	0.135	50
1.5-2.5	<b>80R</b>	3.0	5.0	25	0.250	50
4-6	<b>81R</b>	4.0	6.0	25	0.325	50
10	<b>82R</b>	5.0	8.0	25	0.360	50
16	<b>83R</b>	6.0	8.0	30	0.510	50
25	<b>84R</b>	7.0	10.0	35	1.100	25
35	<b>85R</b>	9.0	12.0	40	1.560	25
50	<b>86R</b>	10.0	14.0	45	2.670	25
70	<b>87R</b>	12.0	16.0	50	3.400	25
95	<b>88R</b>	14.0	18.0	55	4.300	25

>> Tool: see chart page 1.31



### Nickel tubular cable lugs

- material: high grade nickel
- heat resistant up to 650 °C
- ring type



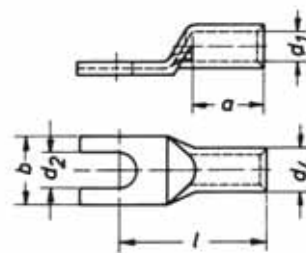
Cross section mm <sup>2</sup>	Bolt size Ø	Part No.	Dimensions mm						Weight/ 100 pcs. ~ kg	pcs.
			d1	a	b	d2	d4	l		
0.5-1	M4	<b>56N4</b>	1.6	6	6.5	4.3	3.2	13	0.080	100
	M5	<b>56N5</b>	1.6	6	7.5	5.3	3.2	14	0.080	100
1.5-2.5	M4	<b>57N4</b>	2.3	6	7.0	4.3	3.9	13	0.105	100
	M5	<b>57N5</b>	2.3	6	7.5	5.3	3.9	14	0.105	100
	M6	<b>57N6</b>	2.3	6	9.5	6.5	3.9	16	0.130	100
4-6	M4	<b>58N4</b>	3.6	9	9.5	4.3	5.6	18	0.275	100
	M5	<b>58N5</b>	3.6	9	9.5	5.3	5.6	19	0.275	100
	M6	<b>58N6</b>	3.6	9	9.5	6.5	5.6	19	0.260	100
10	M5	<b>59N5</b>	4.5	10	12.0	5.5	6.5	21	0.340	100
	M6	<b>59N6</b>	4.5	10	12.0	6.5	6.5	22	0.360	100
16	M5	<b>60N5</b>	5.5	13	12.0	5.5	7.5	26	0.470	100
	M6	<b>60N6</b>	5.5	13	12.0	6.5	7.5	27	0.480	100
	M8	<b>60N8</b>	5.5	13	13.5	8.5	7.5	29	0.560	100
25	M6	<b>61N6</b>	7.0	15	14.0	6.5	10.0	30	1.200	50
	M8	<b>61N8</b>	7.0	15	16.0	8.5	10.0	32	1.320	50
35	M6	<b>62N6</b>	8.5	17	17.0	6.5	12.0	32	1.850	50
	M8	<b>62N8</b>	8.5	17	17.0	8.5	12.0	34	2.000	50
50	M8	<b>63N8</b>	10.0	19	20.0	8.5	14.0	37	2.900	50
	M10	<b>63N10</b>	10.0	19	20.0	10.5	14.0	39	3.100	50
70	M10	<b>64N10</b>	12.0	21	23.0	10.5	16.5	44	4.600	25
	M12	<b>64N12</b>	12.0	21	23.0	13.0	16.5	46	4.660	25
95	M10	<b>65N10</b>	13.5	25	26.0	10.5	18.0	48	5.550	25
	M12	<b>65N12</b>	13.5	25	26.0	13.0	18.0	49	5.600	25

>> Tool: see chart page 1.31



### Nickel tubular cable lugs

- material: high grade nickel
- heat resistant up to 650 °C
- fork type



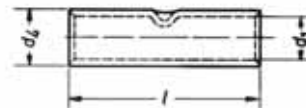
Ni 	Cross section mm <sup>2</sup>	Bolt size Ø	Part No.	Dimensions mm						Weight/100 pcs.	
				d1	a	b	d2	d4	l	~ kg	pcs.
0.5-1		M4	<b>56C4</b>	1.6	6	6.5	4.3	3.2	13	0.070	50
		M5	<b>56C5</b>	1.6	6	7.5	5.3	3.2	14	0.075	50
1.5-2.5		M4	<b>57C4</b>	2.3	6	7.0	4.3	3.9	13	0.095	50
		M5	<b>57C5</b>	2.3	6	7.5	5.3	3.9	14	0.095	50
		M6	<b>57C6</b>	2.3	6	9.5	6.5	3.9	16	0.110	50
4-6		M4	<b>58C4</b>	3.6	9	9.5	4.3	5.6	18	0.250	50
		M5	<b>58C5</b>	3.6	9	9.5	5.3	5.6	19	0.255	50
		M6	<b>58C6</b>	3.6	9	9.5	6.5	5.6	19	0.235	50
10		M5	<b>59C5</b>	4.5	10	12.0	5.5	6.5	21	0.320	50
		M6	<b>59C6</b>	4.5	10	12.0	6.5	6.5	22	0.340	50
16		M5	<b>60C5</b>	5.5	13	12.0	5.5	7.5	26	0.440	50
		M6	<b>60C6</b>	5.5	13	12.0	6.5	7.5	27	0.450	50
		M8	<b>60C8</b>	5.5	13	13.5	8.5	7.5	29	0.520	50

>> Tool: see chart page 1.31



### Nickel connectors

- material: high grade nickel
- heat resistant up to 650 °C



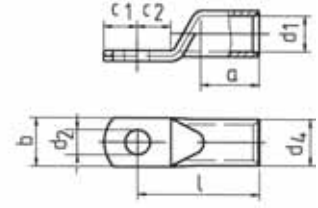
Ni 	Cross section mm <sup>2</sup>	Part No.	Dimensions mm			Weight/100 pcs.	
			d1	d4	l	~ kg	pcs.
0.5-1		<b>62R</b>	1.6	3.2	25	0.135	50
1.5-2.5		<b>63R</b>	2.3	3.9	25	0.170	50
4-6		<b>64R</b>	3.6	5.6	25	0.325	50
10		<b>65R</b>	4.5	6.5	25	0.360	50
16		<b>66R</b>	5.5	7.5	30	0.510	50

>> Tool: see chart page 1.31



### Tubular cable lugs for switchgear connections

- designed with a narrow palm
- material: E-copper
- surface: tin plated
- with or without inspection hole



Cross section mm <sup>2</sup>	Bolt size Ø	Part No.*	Dimensions mm									Weight/ 100 pcs. ~ kg	pcs.
			d1	a	b	d2	d4	c1	c2	l			
35	M6	<b>5SG6</b>	8.5	17	15.0	6.5	12.0	7.5	7.5	32	1.78	25	
	M8	<b>6SG8</b>	10.0	19	17.0	8.5	14.0	10.0	10.0	37	2.82	25	
		<b>6SG10</b>	10.0	19	19.0	10.5	14.0	11.5	12.0	39	3.08	25	
70	M6	<b>7SG6</b>	12.0	21	17.0	6.5	16.5	10.0	10.0	43	4.22	25	
	M8	<b>7SG8</b>	12.0	21	17.0	8.5	16.5	10.0	10.0	43	4.10	25	
		<b>7SG10</b>	12.0	21	19.0	10.5	16.5	11.5	12.0	44	4.45	25	
	M12	<b>7SG12</b>	12.0	21	19.0	13.0	16.5	13.0	13.0	46	4.22	25	
95	M6	<b>8SG6</b>	13.5	25	19.0	6.5	18.0	11.5	12.0	48	5.49	25	
	M8	<b>8SG8</b>	13.5	25	19.0	8.5	18.0	11.5	12.0	48	5.46	25	
		<b>8SG10</b>	13.5	25	19.0	10.5	18.0	11.5	12.0	48	5.13	25	
	M12	<b>8SG12</b>	13.5	25	19.0	13.0	18.0	13.0	13.0	49	5.15	25	
120	M6	<b>9SG6</b>	15.0	26	19.0	6.5	19.5	11.5	14.0	51	6.16	10	
	M8	<b>9SG8</b>	15.0	26	19.0	8.5	19.5	11.5	14.0	51	5.94	10	
		<b>9SG10</b>	15.0	26	19.0	10.5	19.5	11.5	14.0	51	5.81	10	
	M12	<b>9SG12</b>	15.0	26	19.0	13.0	19.5	14.0	14.0	51	5.92	10	
150	M6	<b>10SG6</b>	16.5	30	19.0	6.5	21.0	11.5	14.0	56	6.85	10	
	M8	<b>10SG8</b>	16.5	30	19.0	8.5	21.0	11.5	14.0	56	6.80	10	
		<b>10SG10</b>	16.5	30	19.0	10.5	21.0	11.5	14.0	56	6.75	10	
	M12	<b>10SG12</b>	16.5	30	19.0	13.0	21.0	15.0	15.0	57	7.15	10	
185	M10	<b>11SG10</b>	19.0	30	24.5	10.5	24.0	11.5	18.0	65	10.59	10	
	M12	<b>11SG12</b>	19.0	30	31.0	13.0	24.0	18.0	18.0	65	11.09	10	
		<b>11SG16</b>	19.0	30	31.0	17.0	24.0	18.0	18.0	65	9.76	10	
240	M10	<b>12SG10</b>	21.0	35	31.0	10.5	26.0	11.5	19.0	72	12.70	5	
	M12	<b>12SG12</b>	21.0	35	31.0	13.0	26.0	21.5	19.0	72	13.72	5	
		<b>12SG16</b>	21.0	35	31.0	17.0	26.0	21.5	19.0	72	13.28	5	
300	M10	<b>13SG10</b>	23.5	44	31.0	10.5	30.0	11.5	24.0	87	19.70	5	
	M12	<b>13SG12</b>	23.5	44	31.0	13.0	30.0	24.0	24.0	87	22.72	5	
		<b>13SG16</b>	23.5	44	31.0	17.0	30.0	24.0	24.0	87	22.50	5	

\*Part number for inspection hole version with appendix "ms"

>> Tool: see chart page 1.29

**According to French norm**



According to French norm: NFC 20-130  
NFF.00-363  
EDF.HN.68.S.90

**Special type connectors**



e.g. roll cable lugs, flag cable lugs, tubular cable lugs in special design with two- or four-hole palm, cable lugs made of stainless steel.  
Please use our check-list, catalogue page 12.15

**According to US norm**



According to US norm  
UL approval No. E-111354



## Tool application chart

**Tubular cable lugs and connectors "standard type" and tubular cable lugs for switchgear connections Cu**  
 • Catalogue pages 1.2 - 1.13 and 1.27


Range: mm <sup>2</sup>	Tools	M	M+	H	H+	Crimping profile	Catalogue page	
0.5-6	K13	•					9.10	
0.75-2.5	KP1	+KP232	•				9.16	
	KP1L	+KP232	•				9.17	
	EKP1	+KP232			•		10.14	
	TEKP1	+KP232			•		10.42	
0.75-10	K50		•				9.19	
	EK1550				•		10.12	
	EK1550G				•		10.13	
0.75-16	K2	•				9.10		
4-10	KP1	+KP242	•				9.16	
	KP1L	+KP242	•				9.17	
	EKP1	+KP242			•		10.14	
	TEKP1	+KP242			•		10.42	
6-50	K5		•				9.12	
	K05		•				9.14	
6-120	EK354				•		10.15	
6-185	K18		•				9.21	
	HK6018			•			10.2	
	EK18PLUS				•		10.16	
	PK18				•		10.30	
	THK18				•		10.43	
	HK60UNV	+ UA18			•		10.11	
	EK60UNV	+ UA18				•		10.29
	PK60UNV	+ UA18				•		10.41
	6-300	K22		•				9.22
HK6022				•			10.3	
EK22PLUS					•		10.17	
PK22					•		10.31	
THK22					•		10.44	
HK60UNV		+ UA22			•		10.11	
EK60UNV		+ UA22				•		10.29
PK60UNV	+ UA22				•		10.41	
10-120	K06	•					9.15	
10-240	HK60VP				•		10.4	
	EK60VPPLUS				•		10.18	
	PK60VP				•		10.32	

Range: mm <sup>2</sup>	Tools	M	M+	H	H+	Crimping profile	Catalogue page
16-95	K08	•					9.14
	K95	•					9.11
	TK95	•					9.11
16-300	HK60VPFT			•			10.5
	EK60VPFTPLUS				•		10.19
	PK60VPFT				•		10.33
16-400	HK12025			•			10.6
	HK12042			•			10.7
	HK120U			•			10.8
	EK12025				•		10.20
	EK12042				•		10.21
	EK120UPLUS				•		10.22
	HK122			•			10.45
	HK122EL			•			10.50
	PK12038			•			10.34
	PK120U			•			10.35
16-400	HK252			•			10.46
	HK252EL			•			10.50
	PK252			•			10.36
25-150	K09	•					9.15
35-95	K8	•					9.13
50-120	K6	•					9.12
120-240	K7	•					9.12
185-400	K07	•					9.12

**M** mechanical tools, without interchangeable dies

**H** hydraulic tools, hand-operated

**M+** mechanical tools, with interchangeable dies

**H+** battery powered and mains operated tools

**Tubular cable lugs and connectors Cu for solid conductors**  
• Catalogue pages 1.10 - 1.14



Range: mm <sup>2</sup>	Tools	M	M +	H	H +	Crimping profile	Catalogue page
0.75-16	K02	•					9.11
1.5-4	K93	•					9.10
1.5-10	K50		•				9.19
	EK1550			•			10.12
	EK1550G			•			10.13
1.5-16	EK354			•			10.15
	K18		•				9.21
	HK6018			•			10.2
	EK18PLUS			•			10.16
	PK18			•			10.30
	THK18			•			10.43
	HK60UNV + UA18			•			10.11
	EK60UNV + UA18			•			10.29
	PK60UNV + UA18			•			10.41
	K22		•				9.22
	HK6022			•			10.3
	EK22PLUS			•			10.17
	PK22			•			10.31
	THK22			•			10.44
	HK60UNV + UA22			•			10.11
EK60UNV + UA22			•			10.29	
PK60UNV + UA22			•			10.41	
6-10	K94	•					9.10
25-50*	K05	•					9.14

\*For sizes 25 + 35 mm<sup>2</sup> use die size 25 mm<sup>2</sup>.  
For size 50 mm<sup>2</sup> use die size 35 mm<sup>2</sup>.  
We recommend 2 crimps on each side.

**Insulated tubular cable lugs and connectors Cu**  
• Catalogue pages 1.15 - 1.16



Range: mm <sup>2</sup>	Tools	M	M +	H	H +	Crimping profile	Catalogue page
10-70	EK354			•			10.15
10-95	K18		•				9.21
	HK6018			•			10.2
	EK18PLUS			•			10.16
	PK18			•			10.30
	THK18			•			10.43
	HK60UNV + UA18			•			10.11
	EK60UNV + UA18			•			10.29
PK60UNV + UA18			•			10.41	
10-150	K22		•				9.22
	HK6022			•			10.3
	EK22PLUS			•			10.17
	PK22			•			10.31
	THK22			•			10.44
	HK60UNV + UA22			•			10.11
	EK60UNV + UA22			•			10.29
	PK60UNV + UA22			•			10.41
	HK12025			•			10.6
	HK12042			•			10.7
	HK120U			•			10.8
	EK12025			•			10.20
	EK12042			•			10.21
	EK120UPLUS			•			10.22
	HK122			•			10.45
	HK122EL			•			10.50
	PK12038			•			10.34
	PK120U			•			10.35
HK252			•			10.46	
HK252EL			•			10.50	
PK252			•			10.36	

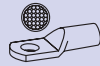
**M** mechanical tools, without interchangeable dies

**H** hydraulic tools, hand-operated

**M +** mechanical tools, with interchangeable dies

**H +** battery powered and mains operated tools

## Tool application chart

**Tubular cable lugs and connectors for fine stranded conductors Cu**  
 • Catalogue pages 1.19 - 1.22


Range: mm <sup>2</sup>	Tools	M	M+	H	H+	Crimping profile	Catalogue page
10-50	EK354			•			10.15
	K5	•					9.12
	K18		•				9.21
	HK6018			•			10.2
	EK18PLUS				•		10.16
	PK18				•		10.30
	THK18				•		10.43
	HK60UNV + UA18				•		10.11
	EK60UNV + UA18				•		10.29
	PK60UNV + UA18				•		10.41
10-70	K22		•				9.22
	HK6022			•			10.3
	EK22PLUS				•		10.17
	PK22				•		10.31
	THK22				•		10.44
	HK60UNV + UA22				•		10.11
	EK60UNV + UA22				•		10.29
	PK60UNV + UA22				•		10.41
10-240	HK60VP				•		10.4
	EK60VPPLUS				•		10.18
	PK60VP				•		10.32
16-95	K95	•					9.11
	TK95	•					9.11
16-150	HK60VPFT				•		10.5
	HK12025				•		10.6
	HK12042				•		10.7
	HK120U				•		10.8
	EK60VPFTPLUS				•		10.19
	EK12025				•		10.20
	EK12042				•		10.21
	EK120UPLUS				•		10.22
	HK122				•		10.45
	HK122EL				•		10.50
	PK60VPFT				•		10.33
	PK12038				•		10.34
	PK120U				•		10.35

Range: mm <sup>2</sup>	Tools	M	M+	H	H+	Crimping profile	Catalogue page
16-300	HK252			•			10.46
	HK252EL			•			10.50
	PK252			•			10.36
35-95	K8	•					9.13
50-120	K6	•					9.12
120-240	K7	•					9.12

**Stainless steel tubular cable lugs and connectors, Tubular nickel cable lugs and connectors**  
 • Catalogue pages 1.23 - 1.26


Range: mm <sup>2</sup>	Tools	M	M+	H	H+	Crimping profile	Catalogue page
0.5-16	K25	•					9.11
	EK354				•		10.15
10-50	K22			•			9.22
	HK6022				•		10.3
	EK22PLUS				•		10.17
	PK22				•		10.31
	THK22				•		10.44
	HK60UNV + UA22				•		10.11
	EK60UNV + UA22				•		10.29
	PK60UNV + UA22				•		10.41

**M** mechanical tools, without interchangeable dies

**H** hydraulic tools, hand-operated

**M+** mechanical tools, with interchangeable dies

**H+** battery powered and mains operated tools



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