



# THE RESISTANT – TUBULAR CABLE LUGS AND CONNECTORS, NICKEL OR STAINLESS STEEL

We also develop for use in tough conditions. Our tubular cable lugs and connectors made from nickel and stainless steel are a cut above: withstanding temperatures of up to 650 °C, our Klauke products have without doubt developed to meet the requirements of the chemical industry, the foodstuff sector and foodstuff industry. You can also rely on our high-quality products for special applications. We know what we are doing.



## In brief

- ▶ Tough to 650 °C
- ▶ Suitable for the chemical and foodstuff industry sectors, for instance
- ▶ Suitable even for aggressive environments, such as contact with salt water

**► When things get hot: Nickel cable lugs**

Nickel cable lugs are especially suitable for use in applications at high temperatures of up to 650 °C. Thanks to their high resilience they no longer need to be frequently replaced at connections exposed to heat.

- High-quality nickel
- Heat-resistant to 650 °C
- No constant replacement of the cable lug at hot locations



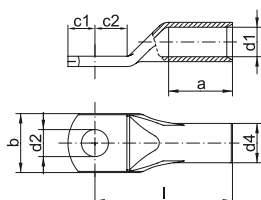
**► Safe in aggressive environments with stainless steel**

High-quality stainless steel ensures extra resilience, especially in aggressive environments. The resistance is retained.

- High-quality V2A and V4A stainless steel
- Acid resistant
- Can be used at temperatures to 400 °C
- V2A stainless steel for the chemical and foodstuff sectors and salt water applications
- V4A stainless steel in chlorinated environments such as swimming pools, for instance



## Tubular cable lugs, stainless steel



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded stranded sector shaped conductors
- ▶ Ideal for aggressive environmental conditions, acid and rust-resistant
- ▶ Heat resistant up to 400 °C

### Characteristics

- Simple and safe connection due to flat contact surfaces and internal chamfer

### Material

- V2A (X5CrNi18-10)

### Technical instructions

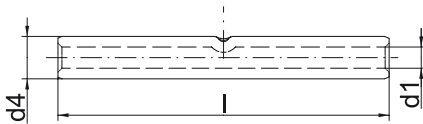
- Tool: see page 53

### Additional information

- Also available as featured article in stainless steel V4A (X5CrNiMo17-12-2)

Nominal cross section mm <sup>2</sup>	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/ pcs		
			d1	a	b	c1	c2	d2	d4	l				
0.5 - 1	M4	<b>79V4</b>	1.6	6	6.5	4.5	4.5	4.3	3.2	13	0.080	100		
	M5	<b>79V5</b>	1.6	6	7.5	5	5.5	5.3	3.2	14	0.080	100		
1.5 - 2.5	M4	<b>80V4</b>	3.0	8	9.0	5	5.5	4.3	5.0	17	0.260	100		
	M5	<b>80V5</b>	3.0	8	9.0	5	6	5.5	5.0	17	0.190	100		
	M6	<b>80V6</b>	3.0	8	9.5	6.5	6.5	6.5	5.0	19	0.215	100		
4 - 6	M4	<b>81V4</b>	4.0	9	9.0	5	5.5	4.3	6.0	18	0.260	100		
	M5	<b>81V5</b>	4.0	9	9.5	6	6	5.5	6.0	19	0.280	100		
	M6	<b>81V6</b>	4.0	9	10.0	7	6.5	6.5	6.0	19	0.280	100		
10	M5	<b>82V5</b>	5.0	10	12.5	6.5	7.5	5.5	8.0	22	0.710	100		
	M6	<b>82V6</b>	5.0	10	12.5	6.5	7.5	6.5	8.0	22	0.780	100		
	M8	<b>82V8</b>	5.0	10	15.0	9	10	8.5	8.0	25	0.780	100		
16	M5	<b>83V5</b>	6.0	13	12.0	5.5	6.5	5.5	8.0	28	0.500	50		
	M6	<b>83V6</b>	6.0	13	12.0	6	7.5	6.5	8.0	28	0.550	50		
	M8	<b>83V8</b>	6.0	13	15.0	8.5	9.5	8.5	8.0	29	0.600	50		
25	M6	<b>84V6</b>	7.0	15	14.0	7.5	7.5	6.5	10.0	30	1.210	50		
	M8	<b>84V8</b>	7.0	15	16.0	9	10	8.5	10.0	32	1.850	50		
35	M6	<b>85V6</b>	9.0	17	17.0	7.5	7.5	6.5	12.0	32	1.600	50		
	M8	<b>85V8</b>	9.0	17	17.0	10	10	8.5	12.0	35	1.850	50		
50	M6	<b>86V6</b>	10.0	19	20.0	10	10	6.5	14.0	37	2.800	50		
	M8	<b>86V8</b>	10.0	19	20.0	10	10	8.5	14.0	37	2.600	50		
	M10	<b>86V10</b>	10.0	19	20.0	12	12	10.5	14.0	39	2.800	50		
70	M12	<b>86V12</b>	10.0	19	20.0	13	13	13.0	14.0	43	2.960	50		
	M8	<b>87V8</b>	12.0	21	23.0	10	10	8.5	16.0	43	3.650	25		
	M10	<b>87V10</b>	12.0	21	23.0	12	12	10.5	16.0	44	3.930	25		
	M12	<b>87V12</b>	12.0	21	23.0	13	13	13.0	16.0	46	3.850	25		
95	M16	<b>87V16</b>	12.0	21	26.0	16	16	17.0	16.0	46	3.960	25		
	M8	<b>88V8</b>	14.0	25	26.0	12	12	8.5	18.0	48	4.650	25		
	M10	<b>88V10</b>	14.0	25	26.0	12	12	10.5	18.0	48	5.610	25		
			M12	<b>88V12</b>	14.0	25	26.0	13	13	13.0	18.0	49	5.540	25

## Butt connectors, stainless steel



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded stranded sector shaped conductors
- ▶ Ideal for aggressive environmental conditions, acid and rust-resistant
- ▶ Heat resistant up to 400 °C

### Characteristics

- Simple and safe processing due to butt mark
- Simple cable entry due to internal chamfer

### Material

- V2A (X5CrNi18-10)

### Technical instructions

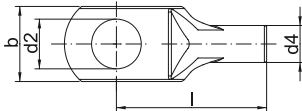
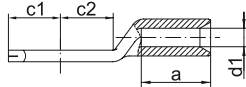
- Tool: see page 53

### Additional information

- Also available as featured article in stainless steel V4A (X5CrNiMo17-12-2)

Nominal cross section mm <sup>2</sup>	Part No.	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l		
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

## Tubular cable lug, Ni



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded stranded sector shaped conductors
- ▶ Suitable for high temperatures up to 650 °C

### Characteristics

- Simple and safe connection due to flat contact surfaces and internal chamfer

### Material

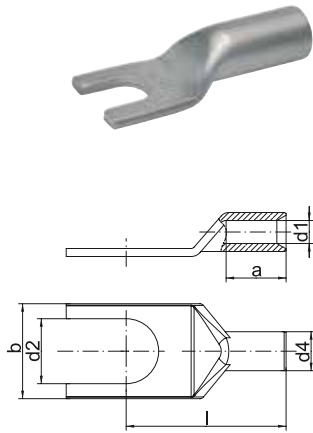
- High-grade nickel

### Technical instructions

- Tool: see page 53

Nominal cross section mm <sup>2</sup>	Size of bolt dia.	Part No.	Dimension mm								Weight/ 100 pcs. ~ kg	Packing unit/ pcs
			d1	a	b	d2	d4	c1	c2	l		
0.5 - 1	M3	<b>56N3</b>	1.6	4	6.5	3.2	3.2	3.5	4.5	13	0.080	100
	M4	<b>56N4</b>	1.6	6	6.5	4.3	3.2	4.5	4.5	13	0.080	100
	M5	<b>56N5</b>	1.6	6	7.5	5.3	3.2	5.0	5.5	14	0.080	100
1.5 - 2.5	M3	<b>57N3</b>	2.3	6	7.0	3.2	3.9	3.5	5.0	13	0.105	100
	M4	<b>57N4</b>	2.3	6	7.0	4.3	3.9	4.5	5.0	13	0.105	100
	M5	<b>57N5</b>	2.3	6	7.5	5.3	3.9	5.0	5.5	14	0.105	100
4 - 6	M6	<b>57N6</b>	2.3	6	9.5	6.5	3.9	6.0	6.5	16	0.130	100
	M4	<b>58N4</b>	3.6	9	9.5	4.3	5.6	4.5	5.0	18	0.275	100
	M5	<b>58N5</b>	3.6	9	9.5	5.3	5.6	5.0	5.5	19	0.275	100
10	M6	<b>58N6</b>	3.6	9	9.5	6.5	5.6	6.0	6.5	19	0.260	100
	M8	<b>58N8</b>	3.6	6	14	8.5	5.6	8.5	9.0	22	0.260	100
	M5	<b>59N5</b>	4.5	10	12.0	5.5	6.5	5.5	6.5	21	0.340	100
16	M6	<b>59N6</b>	4.5	10	12.0	6.5	6.5	6.5	7.5	22	0.360	100
	M5	<b>60N5</b>	5.5	13	12.0	5.5	7.5	5.5	6.5	26	0.470	100
	M6	<b>60N6</b>	5.5	13	12.0	6.5	7.5	6.5	7.5	27	0.480	100
25	M8	<b>60N8</b>	5.5	13	13.5	8.5	7.5	8.5	9.5	29	0.560	100
	M10	<b>60N10</b>	5.5	11	17	10.5	7.5	12.0	12.0	31	0.560	100
	M6	<b>61N6</b>	7.0	15	14.0	6.5	10.0	7.5	7.5	30	1.200	50
35	M8	<b>61N8</b>	7.0	15	16.0	8.5	10.0	10.0	10.0	32	1.320	50
	M10	<b>61N10</b>	7.0	13	17.0	10.5	10.0	12.0	12.0	34	1.320	50
	M6	<b>62N6</b>	8.5	17	17.0	6.5	12.0	7.5	7.5	32	1.850	50
50	M8	<b>62N8</b>	8.5	17	17.0	8.5	12.0	10.0	10.0	34	2.000	50
	M10	<b>62N10</b>	8.5	14.5	19.0	10.5	12.0	12.0	12.0	36	2.000	50
	M8	<b>63N8</b>	10.0	19	20.0	8.5	14.0	10.0	10.0	37	2.900	50
70	M10	<b>63N10</b>	10.0	19	20.0	10.5	14.0	12.0	12.0	39	3.100	50
	M10	<b>64N10</b>	12.0	21	23.0	10.5	16.5	12.0	12.0	44	4.600	25
95	M12	<b>64N12</b>	12.0	21	23.0	13.0	16.5	13.0	13.0	46	4.660	25
	M10	<b>65N10</b>	13.5	25	26.0	10.5	18.0	12.0	12.0	48	5.550	25
	M12	<b>65N12</b>	13.5	25	26.0	13.0	18.0	13.0	13.0	49	5.600	25

## Tubular cable lugs, Cu, fork type



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded stranded sector shaped conductors
- ▶ Suitable for high temperatures up to 650 °C
- ▶ Simple fork-type mounting

### Characteristics

- Simple and safe connection due to flat contact surfaces and internal chamfer

### Material

- High-grade nickel

### Technical instructions

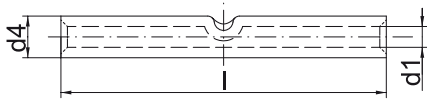
- Tool: see page 53

Nominal cross section mm <sup>2</sup>	Size of bolt dia.	Part No.	Dimension mm						Weight/ 100 pcs. ~ kg	Packing unit/ pcs
			d1	a	b	d2	d4	l		
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
	M4	<b>58C4</b>	3.6	9	9.5	4.3	5.6	18	0.250	50
4 - 6	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





## Butt connectors, Ni



- ▶ For multi-stranded round conductors, e.g. to DIN EN 60228 Cl. 2
- ▶ For pre-rounded stranded sector shaped conductors
- ▶ Suitable for high temperatures to 650 °C

### Characteristics

- Simple and safe processing due to butt mark
- Simple cable entry due to internal chamfer

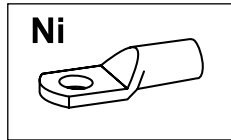
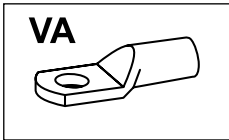
### Material

- High-grade nickel

### Technical instructions







































- Tool: see page 53

Nominal cross section mm <sup>2</sup>	Part No.	Dimension mm			Weight/ 100 pcs. ~ kg	Packing unit/pcs
		d1	d4	l		
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 application chart

**Tubular cable lugs and butt connectors made from stainless steel or nickel**

Tool type	Crimping range corresponds to nominal cross-section mm <sup>2</sup>	Crimping Tool		Catalogue page		Crimp profile
		Part No.	Crimping head / adapter	Crimping Tool	Crimping die	
<b>Mechanical crimping tools</b>	<b>0,5 - 6</b>	K25		225		
<b>Mechanical, electrical, pneumatic crimping tools with interchangeable dies / heads</b>	<b>0,5 - 16</b>	K354		236	315	 + 
	<b>10 - 50</b>	K22		240	328	
<b>Hand hydraulic crimping tools</b>	<b>10 - 50</b>	HK6022		282	328	
		HK6022UNV	+UA22	465	328	
	<b>10 - 95</b>	HK12030		286	328	 + 
		HK12042		288	328	 + 
<b>Battery powered crimping tools</b>	<b>0,5 - 16</b>	EK354ML		250	315	 + 
		EK354		256	315	 + 
	<b>10 - 50</b>	EKM6022		262	328	
		EK6022		264	328	
		EK60UNV	+UA22	468	328	
		EKM60UNV	+UA22	467	328	
	<b>10 - 95</b>	EK12032		270	334	 + 
		EK12042		272	334	 + 
		EK120U		274	334	 + 
		EK120UNV	+UA12T	469	334	 + 
		EK135FT	+UA15T	276	334	 + 
<b>Hydraulic crimping systems</b>	<b>10 - 50</b>	THK22		296	328	
	<b>10 - 95</b>	THK120		300	334	 + 
<b>Hydraulic crimping heads</b>	<b>10 - 50</b>	PK22		296	328	
		PK60UNV	+UA22	466	328	
	<b>10 - 95</b>	PK12042		300	334	 + 
		PK120U		302	334	 + 
		PK252	+25A13	304	334	 + 