



# COMPENSATING - SLEEVES FOR COPPER SECTOR-SHAPED AND COMPACTED CONDUCTORS

With the right sleeve, copper sector-shaped conductors are easy to crimp all the way round and can then be conveniently inserted into the cable lug. Klauke sleeves for compacted conductors compensate the difference between the compacted conductor and cable lug - ensuring reliable connections.



### In brief

- ▶ For round crimping sector-shaped conductors
- ▶ Brings compacted conductors to the required volume
- ▶ Good conductivity due to high-quality copper
- ▶ Available for DIN and tubular cable lugs



**Note:** The sleeves for sector-shaped conductors must be crimped with pre-rounding dies.

### ► Filled in two steps

Making it easy for you: Use the Klauke sleeves to bring compacted conductors to the required volume in just two work steps: Simply attach the sleeve to the stripped conductor and insert it into the appropriate cable lug - done.

No additional tools and no special solutions required.

- Simple filling of compacted conductors
- For nominal cross-sections of up to 400 mm<sup>2</sup>
- High-quality material reduces contact resistance
- No special solutions required: existing tool can be used for reliable crimping

### ► Pre-rounded sector-shaped conductors

Pre-rounds 3- and 4-sector-shaped conductors without special cable lugs - using Klauke sleeves.

- For pre-rounding of sector-shaped conductors
- Suitable for 3- and 4-sector-shaped conductors at angles of 120° and 90°
- Nominal cross-section up to 240 mm<sup>2</sup>
- No splicing of conductors
- No special cable lugs required
- Lower storage costs



### ► The right sleeve for every cable lug

With Klauke, everything fits together. The diameter and length of the sleeve are adapted to the required cable lug to ensure optimum crimping.

- Reliable crimping in a just a few steps
- Sleeves accurately matched to the Klauke system





#### Sleeves for compacted conductors, for tubular cable lugs and connector standard type



- ▶ For multi-stranded, compacted conductors e.g. to DIN EN 60228 Cl. 2
- ▶ Allows the use of Klauke tubular cable lugs and connectors, standard type, on compacted conductors

#### Characteristics

- Annealed material optimises material and crimping properties

#### Material

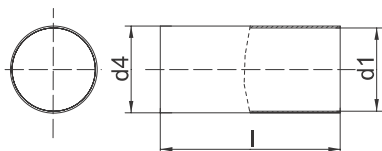
- Copper (HCP)

#### Surface

- Tin-plated to protect against corrosion

#### Technical instructions

- Refer to the installation instructions in the technical appendix on page i-7



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

## Sleeves for compacted conductors, for tubular cable lugs and connector DIN type



- ▶ For multi-stranded, compacted conductors e.g. to DIN EN 60228 Cl. 2
- ▶ Allows the use of Klauke DIN compression cable lugs and connectors for compacted conductors

### Characteristics

- Annealed material optimises material and crimping properties

### Material

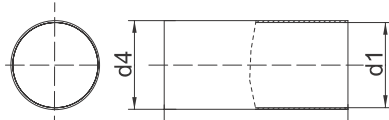
- Copper (HCP)

### Surface

- Tin-plated to protect against corrosion

### Technical instructions

- Refer to the installation instructions in the technical appendix on page i-7



Nominal cross section mm <sup>2</sup>	Part No.	Dimension mm			Weight 100 pcs. ~kg	Packing unit/pcs
		d1	d4	l		
16	<b>VHD16</b>	5.0	5.3	16	0.035	100
25	<b>VHD25</b>	6.4	6.7	16	0.043	100
35	<b>VHD35</b>	7.7	8.2	17	0.094	100
50	<b>VHD50</b>	9.0	9.5	23	0.151	50
70	<b>VHD70</b>	10.6	11.2	24	0.219	50
95	<b>VHD95</b>	12.4	13.0	28	0.298	50
120	<b>VHD120</b>	13.9	14.5	30	0.357	50
150	<b>VHD150</b>	15.4	16.0	30	0.395	25
185	<b>VHD185</b>	17.6	18.2	38	0.579	25
240	<b>VHD240</b>	19.9	20.5	38	0.645	25
300	<b>VHD300</b>	22.4	23.0	48	0.913	5
400	<b>VHD400</b>	25.4	26.2	58	1.692	5



### Sleeves for sector shaped conductors, 3-core cable



- ▶ For multi-stranded, sector shaped conductors, e.g. to DIN EN 60228
- ▶ For tubular cable lugs and connectors, standard version and DIN compression cable lugs and connectors
- ▶ To simplify pre-rounding of 3-core cables (120° angle)
- ▶ Prevents sector shaped conductors from de-stranding during pre-rounding

#### Characteristics

- Annealed material optimises material and crimping properties

#### Material

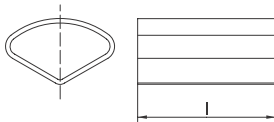
- Copper (HCP)

#### Surface

- Tin-plated to protect against corrosion

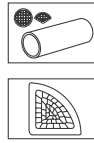
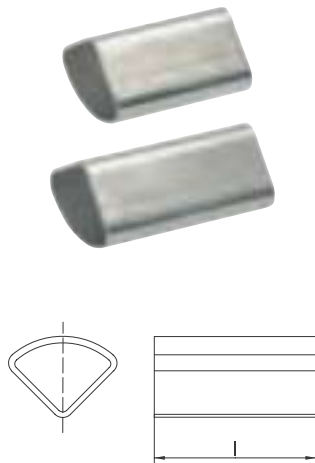
#### Technical instructions

- For round crimping dies, see „Crimping dies“
- Refer to the installation instructions in the technical appendix on page i-7



Nominal cross section mm <sup>2</sup>	Part No.	Dimension mm für l	Weight 100 pcs. ~kg	Packing unit/pcs
Standard type				
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
DIN version				
35	VHD353	17,5	0.11	100
50	VHD503	25,0	0.26	50
70	VHD703	25,0	0.39	50
95	VHD953	32,0	0.66	50
120	VHD1203	32,0	0.68	50
150	VHD1503	32,0	0.74	25
185	VHD1853	35,0	1.13	25
240	VHD2403	35,0	1.22	25

## Sleeves for sector shaped conductors, 4-core cable



- ▶ For multi-stranded, sector shaped conductors, e.g. to DIN EN 60228
- ▶ For tubular cable lugs and connectors, standard version and DIN compression cable lugs and connectors
- ▶ To simplify pre-rounding of 4-core cables (90° angle)
- ▶ Prevents sector shaped conductors from de-stranding during pre-rounding

### Characteristics

- Annealed material optimises material and crimping properties

### Material

- Copper (HCP)

### Surface

- Tin-plated to protect against corrosion

### Technical instructions

- Refer to the installation instructions in the technical appendix on page i-7
- For round crimping dies, see „Crimping dies“

Nominal cross section mm <sup>2</sup>	Part No.	Dimension mm für l	Weight 100 pcs. ~kg	Packing unit/pcs
Standard type				
35	VHR354	14	0.13	100
50	VHR504	17	0.17	50
70	VHR704	18	0.28	50
95	VHR954	22	0.40	50
120	VHR1204	23	0.51	50
150	VHR1504	25	0.57	25
185	VHR1854	25	0.78	25
240	VHR2404	30	0.85	25
DIN version				
35	VHD354	17.5	0.11	100
50	VHD504	25.0	0.25	50
70	VHD704	25.0	0.38	50
95	VHD954	32.0	0.63	50
120	VHD1204	32.0	0.71	50
150	VHD1504	32.0	0.73	25
185	VHD1854	35.0	1.09	25
240	VHD2404	35.0	1.13	25