

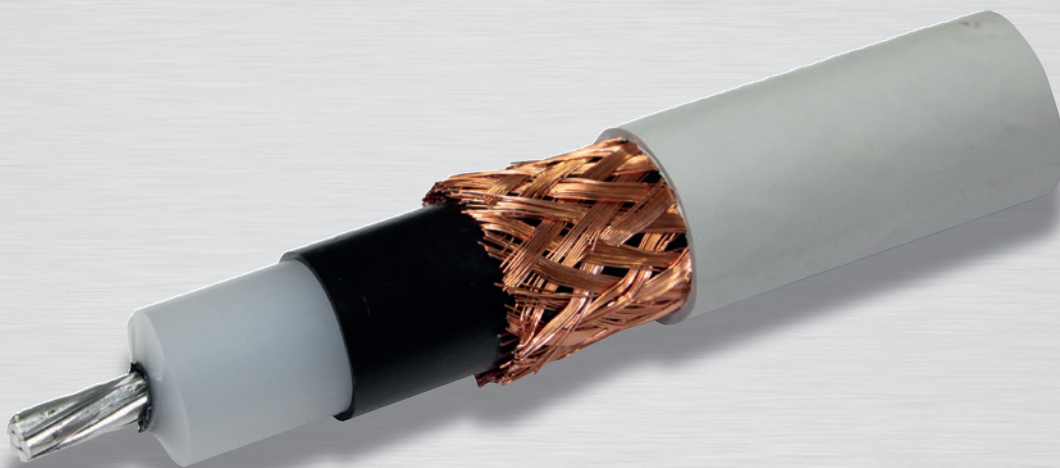


**HVC-protected**

High voltage resistant conductor

HVC-50

HVC-85



## *Your benefits:*

- *Significantly reduced installation work and time.*
- *The required equipotential bonding is provided by the integrated shield braid in the conductor – no separate conductor is needed.*
- *Mechanical and chemical protection by light grey, UV-resistant protective jacket.*
- *Equivalent separation distance “s” of **0.85 m** in air for **HVC-85 conductor** and of **0.50 m** in air for **HVC-50 conductor**.*
- *No additional separation distances must be observed in the base area.*

*Always safely  
one idea ahead!*



# **J. Pröpster GmbH**

*a strong family business*  
*– past, present and future*



## *Humaneness & emotion*

shape our thinking, our actions and our company culture. A company I like to visit, where I find more than I expected and people who listen to what I am saying.



## *Reliability & honesty*

are our outstanding characteristics. Without fail you receive tried and tested quality. You can rely on us for honest opinions and competent promises.



## *Respect & trust*

form the basis of our mutual high regard. With the customer in mind, we find solutions to problems and fulfil wishes quickly and effectively. Your contacts here are specialists who actively support you in achieving your goals.



## *Joy & enthusiasm*

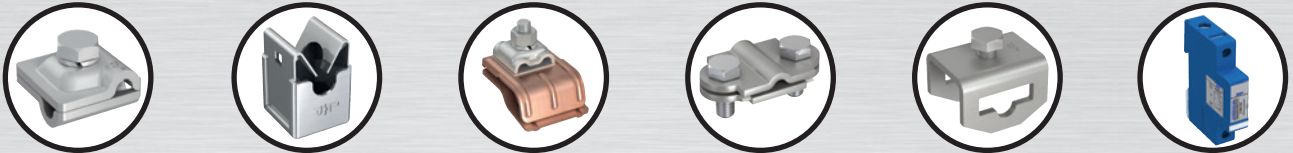
are both the driving force and the guarantee of success. You are held in high esteem and recognition by people who take pleasure in working towards your success. You can share this joy and experience our enthusiasm.





## *Our promise* **"Always safely one idea ahead!"**

does not only encompass innovations and inventions, but also facilitates work processes, safety and quality at extremely stable prices with high availability.



Quality is also a priority to us when offering support for projects and providing you with reasonably priced custom-built components and a perfect delivery service.

Our free winter seminars (training sessions, not sales events!) are always well-attended with great feedback.

Since our company's foundation over 40 years ago, you, the customer, have always been at the heart of our thoughts and actions.

### *Additional production and warehouse facilities*

3 km to the south of our main site at the road St 2660 (B8), 6 double halls with ca. 20,000 sqm floor space were erected in the industrial area C1 to meet our future growth in conjunction with new developments and product improvements.



Factory I Neumarkt



Factory II Frankenberg



Factory III Deining





## Installation examples







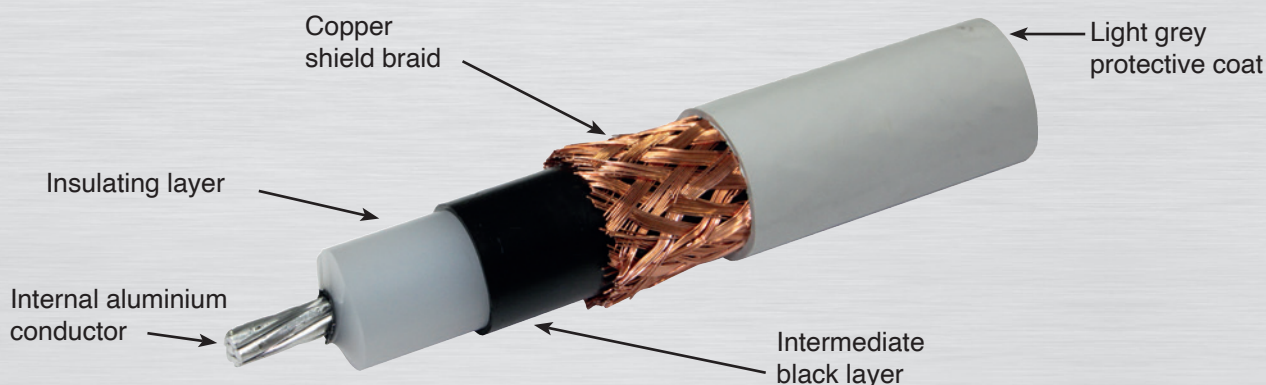
## HVC-50 *HVC-protected*

### Benefits of the HVC-50 conductor:

- Significantly reduced installation work and time.
- The required equipotential bonding is provided by the integrated shield braid in the conductor – no separate conductor is needed.
- Mechanical and chemical protection by light grey, UV-resistant protective jacket.
- Equivalent separation distance "s" = **0.50 m** in air.
- No additional separation distances must be observed in the base area.

Installation is carried out in accordance with the installation instructions.

### Design and technical data:



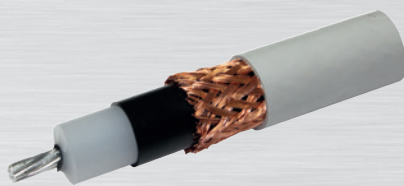
Equivalent separation distance "s" - air	≤ 500 mm
Equivalent separation distance "s" - solid material	≤ 1000 mm
Outer diameter	23 mm (± 0,5 mm)
Minimum bending radius	250 mm
Ambient temperature during installation	> 0°C
Permanent temperature range	-20°C to +70°C
Max. tensile load	1500 N
Weight	ca. 0.635 kg/m
Cross section of stranded internal aluminium conductor	28 mm² / aluminium
Cross section of shield braid	16 mm² / copper
Fire load	3.2 kWh/m
Weatherproof and UV-resistant	yes

### Maximal conductor length:

Class of LPS	Max. lightning current	No. of down conductors	Max. conductor length *)
I	200 kA	1	--
		2	12 m
		3	18 m
II	150 kA	1	8 m
		2	16 m
		3	25 m
III + IV	100 kA	1	12 m
		2	25 m
		3	37 m

\*) for "s" = 0.50 m in air





## HVC-50 conductor

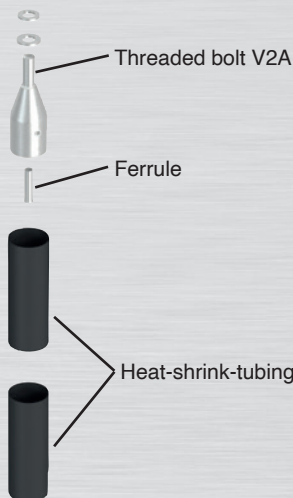
Specification	Fit	ca. Weight/m	PU.	Order no.
Length 25 m as a bunch	ø 23 mm	0.635 kg	1	650 001
Length 50 m on a non-returnable reel	ø 23 mm	0.635 kg	1	650 002
Length 100 m on a non-returnable reel	ø 23 mm	0.635 kg	1	650 003

### Technical data:

Equivalent separation distance "s" - air	≤ 500 mm
Equivalent separation distance "s" - solid material	≤ 1000 mm
Outer diameter	23 mm (± 0,5 mm)
Minimum bending radius	250 mm
Ambient temperature during installation	> 0°C
Permanent temperature range	-20°C to +70°C
Max. tensile load	1500 N
Weight	ca. 0.635 kg/m
Cross section of stranded internal aluminium conductor	28 mm² / aluminium
Cross section of shield braid	16 mm² / copper
Fire load	3.2 kWh/m
Weatherproof and UV-resistant	yes

List of maximal conductor lengths (while "s" = 0.50 in air) on page 5

## Head-unit



Order no. 651 101

## Head-unit for HVC-50 conductor

Head-unit, for HVC-50 conductor, incl. a complete installation set consisting of 2 heat-shrink-tubings, ferrule, washer and springwasher.

Specification	Connection	PU	Order no.
Aluminium - for exterior pole installation	Hex bolt V2A M10 x 20 mm with a spring washer	1	651 100
Aluminium - for interior pole installation	Threaded bolt V2A	1	651 101
Aluminium - for spanning objects incl. multi-clamp V2A	Threaded bolt V2A	1	651 102
Aluminium - for connection to the attic	Threaded bolt V2A ø 10 x 105 mm	1	651 103

Head-unit made of stainless steel V2A on request!

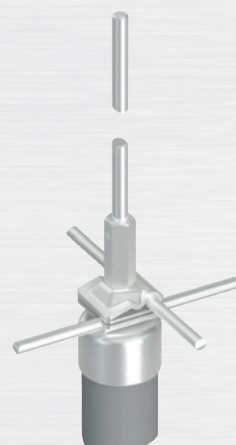
Application examples:



Head-unit  
order no. 651 100 +  
terminal plate  
order no. 632 400  
(see page 21)



Head-unit  
order no. 651 101



Head-unit  
order no. 651 102

## Spare parts, for head-unit

Specification	Fit	Length	PU	Order no.
Ferrule copper/tinned	ø 7 mm	30 mm	10	601 110
Heat-shrink-tubing with glue	ø 32 mm	100 mm	10	651 111





## HVC-50 incl. installed head-unit

**HVC-50 conductor**, cut to length with installed head-unit. Including base unit **aluminium** for self-assembly. Minimum length of **HVC-50** conductor: 5.0 m.

Specification of head-unit (page 6)	Order no. 5.0 m	Order no. xx m
<b>Aluminium</b> - for exterior pole installation	651 100-5	651 100-xx
<b>Aluminium</b> - for interior pole installation	651 101-5	651 101-xx
<b>Aluminium</b> - for spanning objects incl. multi-clamp <b>V2A</b>	651 102-5	651 102-xx

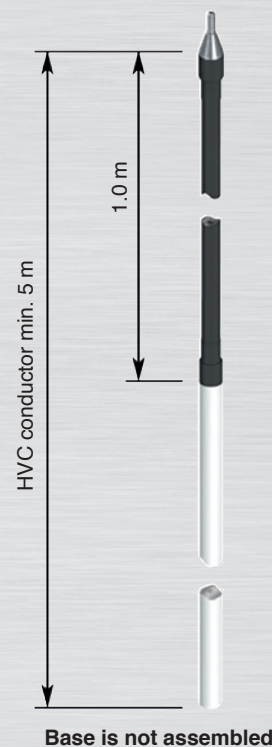
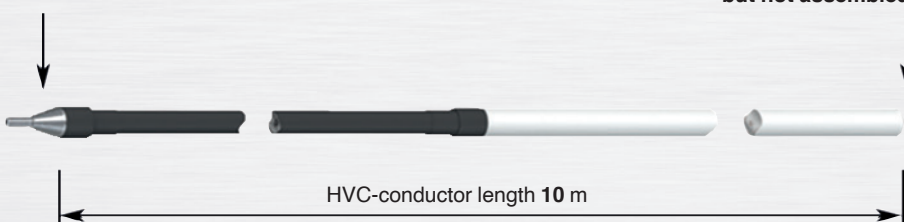
Head-unit made of **stainless steel V2A** on request!

The last digits of the order no. (**xx**) indicate the overall conductor length.

Order example: 651 100-10

Head-unit 651 100

Base-unit is included in delivery  
but not assembled



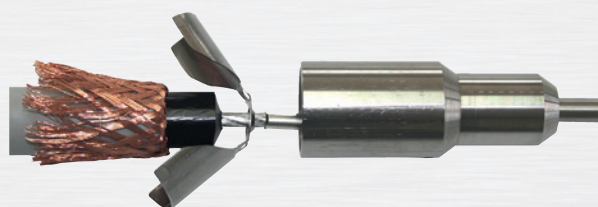
## Base-unit for HVC-50 conductor

**Base-unit**, for **HVC-50** conductor, incl. terminal bolt  $\varnothing$  10 mm made of **stainless steel V2A** and a complete installation set consisting of a heat-shrink-tubing, contact sheet and a ferrule.

Specification	Fit	Length	PU	Order no.
<b>Aluminium</b>	$\varnothing$ 10 mm	70 mm	1	651 200

Base-unit made of **stainless steel V2A** on request

Application examples:



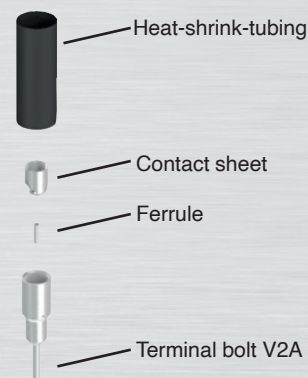
Observe the installation instructions for the installation!

Base-unit  
order no. 651 200 +  
Vario-clamp  
order no. 910 579

## Spare parts, for base-unit

Specification	Fit	Length	PU	Order no.
Ferrule <b>copper</b> /tinned	$\varnothing$ 7 mm	30 mm	10	601 110
Heat-shrink-tubing with glue	$\varnothing$ 39 mm	125 mm	10	601 111
Contact sheet <b>stainless steel V2A</b>	$\varnothing$ 7 mm		5	651 113

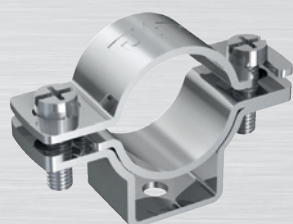
## Base-unit



Order no. 651 200



## HVC-50 conductor fastener



Order no. 662 003



Order no. 664 003



Order no. 662 001



Order no. 664 001



Order no. 662 004

## HVC-50 conductor fastener

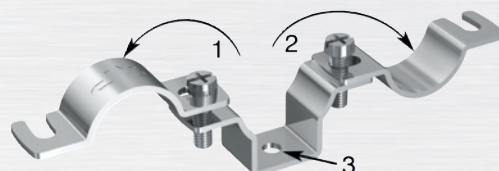
### HVC-50 conductor fastener

Specification	Fixing	Fit	PU	Order no.
Stainless steel V2A	ø 6.5 mm	ø 23 mm	50	662 003
Stainless steel V2A	ø 8.5 mm	ø 23 mm	50	662 002
Plastic	ø 6.5 mm	ø 23 mm	50	664 003

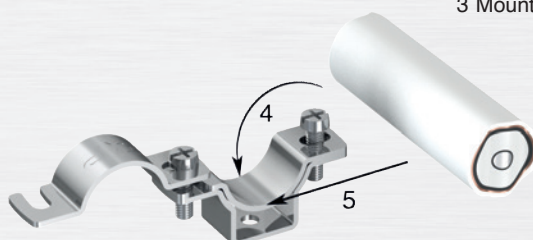
Application:



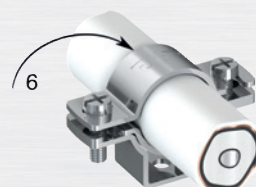
Delivery state



- 1 Open top fastener piece
- 2 Open bottom fastener piece
- 3 Mount conductor fastener



- 4 Swivel back bottom fastener piece
- 5 Insert HVC-conductor into fastener



- 6 Close top fastener piece and tighten screws



Screws in top part are self-retaining

### HVC-50 conductor fastener, with washer, screw and ø 8 mm dowel.

Specification	Conductor height	Fit	PU	Order no.
Stainless steel V2A	18 mm	ø 23 mm	50	662 001
Plastic	13 mm	ø 23 mm	50	664 001

### HVC-50 conductor fastener, for the direct fixing to walls. Also suitable for external thermal insulation composite systems

Specification	Fixing	Fit	PU	Order no.
Stainless steel V2A	ø 7 x 8.5 mm	ø 23 mm	50	662 004





## Roof conductor holder

Roof conductor holder, for flat roofs with **HVC-50** conductor fastener ø 23 mm, including concrete base (H-shape) and base plate

Specification	Concrete block	Fit	PU	Order no.
Stainless steel V2A with concrete block	5.0 kg	ø 23 mm	1	672 000
Stainless steel V2A with concrete block	7.5 kg	ø 23 mm	1	672 001
Plastic with concrete block	5.0 kg	ø 23 mm	1	674 000
Plastic with concrete block	7.5 kg	ø 23 mm	1	674 001

### Benefits:

- Laying the **HVC-50** conductor on flat roofs without additional screwing effort through clip fastening.
- Easier handling due to the low weight of the individual holders.

**PR-ÖKO 2 Adapter**, for **HVC-50** conductor, suitable for 1kg roof conductor holder  
Order no. 111 630

Specification	Fit	PU	Order no.
Plastic screwed	ø 23 mm	50	674 003

**Note:** Roof conductor holder PR-ÖKO 2 (Order no. 111 630) must be ordered separately.

Roof conductor holder, for universal use with **HVC-50** conductor fastener ø 23 mm.

Specification	Length	Fit	PU	Order no.
Stainless steel V2A	210 mm	ø 23 mm	1	662 080
Stainless steel V2A	280 mm	ø 23 mm	1	662 081
Stainless steel V2A	410 mm	ø 23 mm	1	662 082

Roof conductor holder, for Kalzip with **HVC-50** conductor fastener ø 23 mm.

Specification	Fastener	Fit	PU	Order no.
<b>Support</b>				
Stainless steel V2A	Stainless steel V2A	ø 23 mm	25	662 060
Stainless steel V2A	Plastic	ø 23 mm	25	664 060

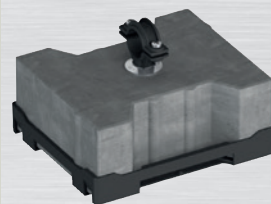
Roof conductor holder, for RIB-ROOF 500 with **HVC-50** conductor fastener ø 23 mm.

Specification	Fastener	Fit	PU	Order no.
<b>Support</b>				
Stainless steel V2A	Stainless steel V2A	ø 23 mm	25	662 070
Stainless steel V2A	Plastic	ø 23 mm	25	664 070

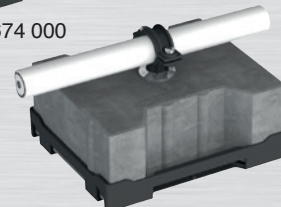
Roof conductor holder, with **HVC-50** conductor fastener. For synthetic roofing membranes and bitumen roofs. To be fixed onto synthetic roofing membranes with weldable fastening strips; glued directly onto bitumen roofs.

Specification	Conductor height	Fit	PU	Order no.
<b>Support</b>				
Plastic HD-PE	28 mm	ø 23 mm	50	662 090

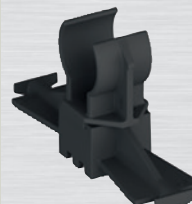
## Roof conductor holder



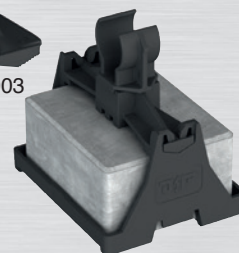
Order no. 674 000



Application example



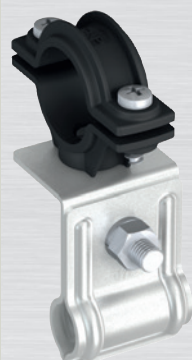
Order no. 674 003



(J.P. patent) Application example



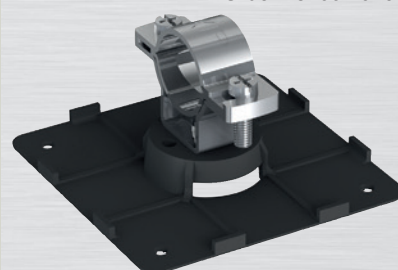
Order no. 662 080



Order no. 664 060



Order no. 664 070



Order no. 662 090





## Conductor support



Order no. 674 010



Order no. 674 020

## Conductor support

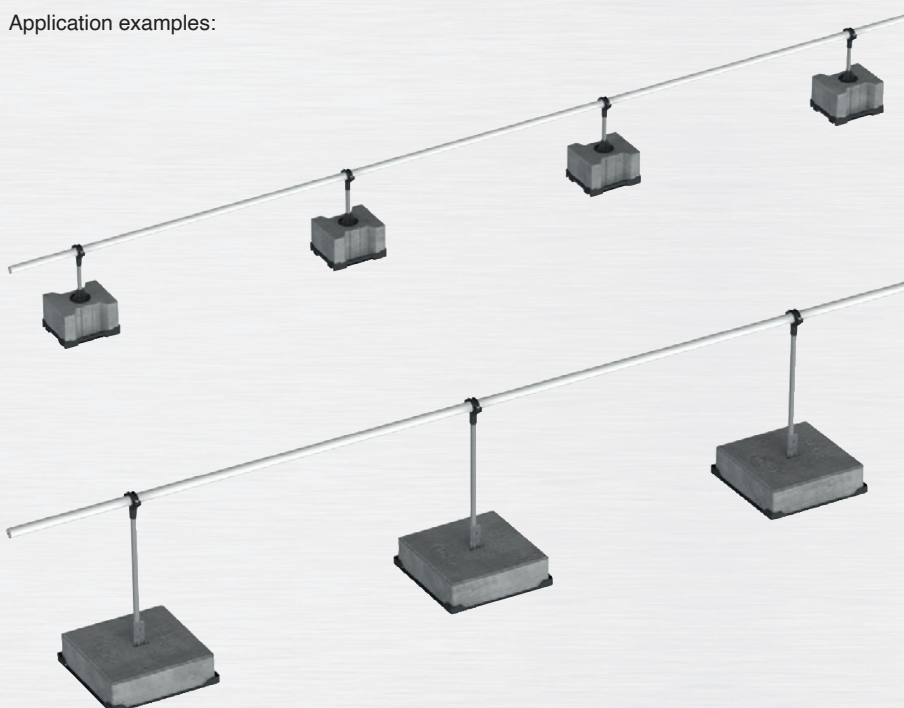
**Conductor support**, to increase the height of the **HVC-50** conductor on flat roofs. Incl. concrete base, H-shaped 7.5 kg, support plate and plastic conductor holder ø 23 mm.

Specification	Conductor height	PU	Order no.
Conductor support GRP ø 16 mm (SET)	300 mm	1	674 010
Conductor support GRP ø 16 mm (SET)	400 mm	1	674 011

**Conductor support**, to increase the height of the **HVC-50** conductor on flat roofs. Incl. concrete base 16kg with JP-wedge technology, support plate & plastic conductor holder ø 23 mm.

Specification	Conductor height	PU	Order no.
Conductor support GRP ø 16 mm (SET)	500 mm	1	674 020
Conductor support GRP ø 16 mm (SET)	600 mm	1	674 021
Conductor support GRP ø 16 mm (SET)	700 mm	1	674 022

Application examples:







## Mounting clamps

**Mounting plate and angle bracket**, to mount the **HVC-50** conductor  $\varnothing$  23 mm on walls and metal sheets.

Specification	HVC-50 conductor fastener	PU	Order no.
Mounting plate <b>stainless steel V2A</b>	Plastic	25	664 010
Angle bracket <b>stainless steel V2A</b>	Plastic	25	664 011
Mounting plate <b>stainless steel V2A</b>	<b>Stainless steel V2A</b>	25	662 010
Angle bracket <b>stainless steel V2A</b>	<b>Stainless steel V2A</b>	25	662 011

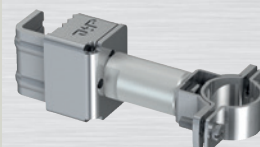


Order no. 664 010

Order no. 664 011

**Terminal clamp, heavy-duty type**, to mount the **HVC-50** conductor to steel constructions or railings with fixing bush, **aluminium**, and fastener, **stainless steel V2A**  $\varnothing$  23 mm.

Specification	Clamping area	Fit	PU	Order no.
Steel/hot galvanized	up to 19 mm	$\varnothing$ 23 mm	25	663 020
Steel/hot galvanized	19 - 36 mm	$\varnothing$ 23 mm	25	663 021
Steel/hot galvanized	36 - 52 mm	$\varnothing$ 23 mm	20	663 022
<b>Stainless steel V2A</b>	up to 19 mm	$\varnothing$ 23 mm	25	662 020
<b>Stainless steel V2A</b>	19 - 36 mm	$\varnothing$ 23 mm	25	662 021
<b>Stainless steel V2A</b>	36 - 52 mm	$\varnothing$ 23 mm	20	662 022

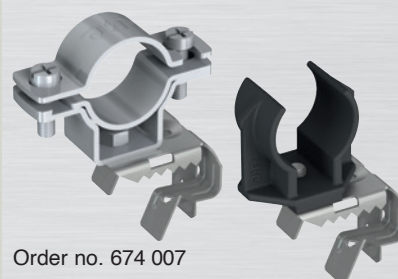


Order no. 662 021

**Beam clip** for **HVC-50** conductor;  
screwed on (for conductor relief) and snapped on (to fix the position)

Specification	Clamping range	Fit	PU	Order no.
<b>NEW!</b> Conductor fastener plastic	8 - 12.5 mm	$\varnothing$ 23 mm	50	674 006
Beam clip steel/hot galvanized		snapped on		
<b>NEW!</b> Conductor fastener <b>stainless steel V2A</b>	8 - 12.5 mm	$\varnothing$ 23 mm	50	674 007
Beam clip steel/hot galvanized		screwed on		

Additional clamping range on request.

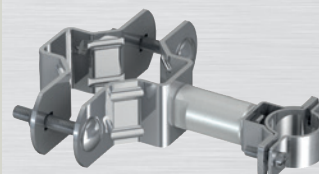


Order no. 674 007

Order no. 674 006

**Pipe clamp**, to mount the **HVC-50** conductor on pipes or railings with fixing bush, **aluminium**, and fastener, **stainless steel V2A**  $\varnothing$  23 mm.

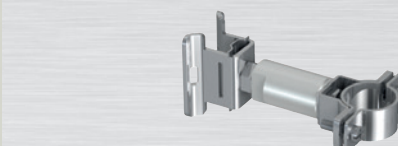
Specification	Fit	Pipe- $\varnothing$	PU	Order no.
Pipe clamp <b>stainless steel V2A</b> with mounting screw <b>V2A</b>	$\varnothing$ 42.4 - 60.3 mm	1 1/4" - 2"	20	662 030
	$\varnothing$ 42.4 - 88.9 mm	1 1/4" - 3"	20	662 031
Pipe clamp Steel/hot galvanized with mounting screw <b>V2A</b>	$\varnothing$ 42.4 - 60.3 mm	1 1/4" - 2"	20	663 030
	$\varnothing$ 42.4 - 88.9 mm	1 1/4" - 3"	20	663 031



Order no. 662 030

**Tape pipe clamp**, to mount the **HVC-50** conductor on pipes up to 300 mm with fixing bush, **aluminium**, and fastener, **stainless steel V2A**  $\varnothing$  23 mm.

Specification	Pipe- $\varnothing$	PU	Order no.
Tape pipe clamp with tensioning strap <b>stainless steel V2A</b>	up to $\varnothing$ 300 mm	10	662 041
Tape pipe clamp without tensioning strap <b>stainless st. V2A</b>	-	20	662 040
Tensioning strap <b>stainless steel V2A</b> , 22 x 0.4 mm	-	25 m	913 825
	-	50 m	913 831



Order no. 662 040



Order no. 662 041

**Tape pipe clamp low type**, to mount the **HVC-50** conductor on pipes up to 300 mm. With tensioning tape and conductor fastener **V2A**  $\varnothing$  23 mm. Height of conductor 30 mm.

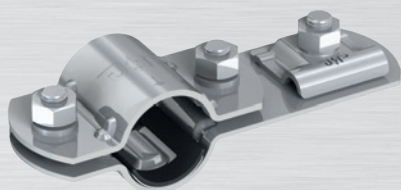
Specification	Pipe- $\varnothing$	PU	Order no.
Tape pipe clamp with tensioning strap <b>stainless steel V2A</b>	$\varnothing$ 50 - 150 mm	10	662 045
Tape pipe clamp with tensioning strap <b>stainless steel V2A</b>	$\varnothing$ 50 - 300 mm	10	662 046
Tape pipe clamp without tensioning strap	-	20	662 047
Tensioning strap <b>stainless steel V2A</b> , 15 x 0.4 mm	-	25 m	110 248



Order no. 662 045



## Equipotential bonding clamp



Order no. 662 051

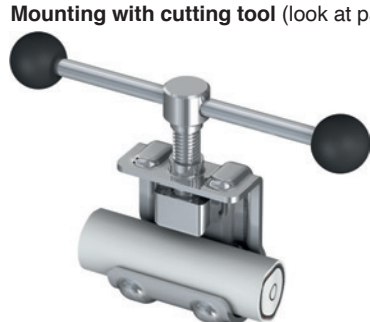
## Equipotential bonding clamp

Equipotential bonding clamp,  
with self-sealing and bonding plate for **HVC-50** conductor

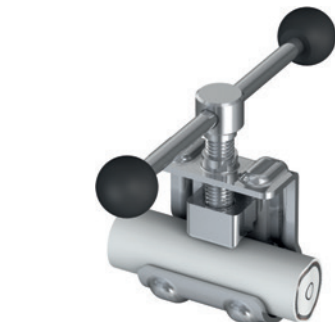
Specification	Fit	PU	Order no.
Stainless steel V2A	Square profile 9 mm	1	662 050
Stainless steel V2A	6 mm <sup>2</sup> (ø 2.8 mm) - 50 mm <sup>2</sup> (ø 8 mm)	1	662 051



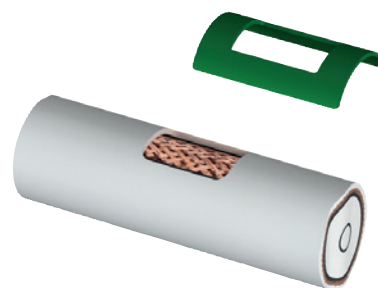
### Mounting with cutting tool (look at page 26):



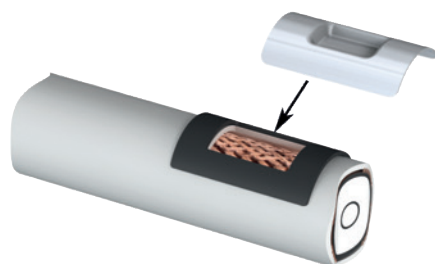
- 1 Clean HVC-conductor
- 2 Position cutting tool congruently



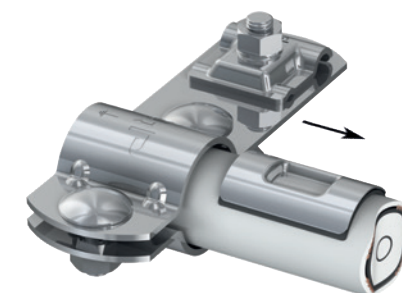
- 3 Screw the cutting tool down and afterwards open it



- 4 Remove cut material and cutting tool (expose copper shield braid)
- 5 Pull off foil from sealing and stick on one side



- 6 Pull off foil from sealing and stick on bonding plate



- 7 Position and tighten mounting clamp with bonding plate (10 Nm)



- 8 Attachment of the equipotential bonding conductor



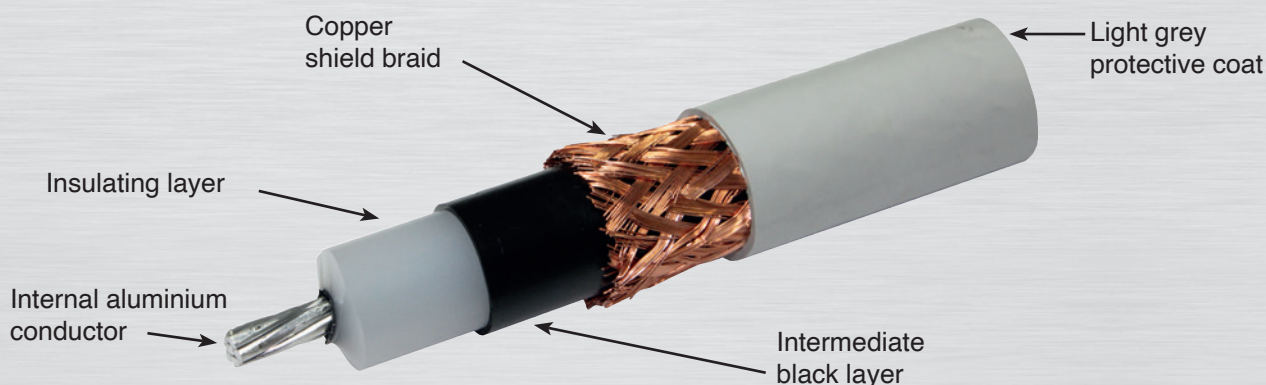
## HVC-85 *HVC-protected*

### Benefits of the HVC-85 conductor:

- Significantly reduced installation work and time.
- The required equipotential bonding is provided by the integrated shield braid in the conductor – no separate conductor is needed.
- Mechanical and chemical protection by light grey, UV-resistant protective jacket.
- Equivalent separation distance "s" = **0.85 m** in air.
- No additional separation distances must be observed in the base area.

Installation is carried out in accordance with the installation instructions.

### Design and technical data:



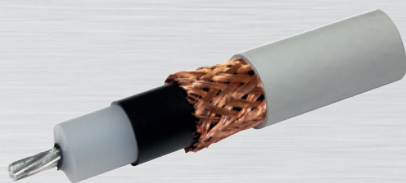
Equivalent separation distance "s" - air	≤ 850 mm
Equivalent separation distance "s" - solid material	≤ 1700 mm
Outer diameter	28 mm (± 1.0 mm)
Minimum bending radius	250 mm
Ambient temperature during installation	> 0°C
Permanent temperature range	-20°C to +70°C
Max. tensile load	1500 N
Weight	ca. 0.918 kg/m
Cross section of stranded internal aluminium conductor	28 mm² / aluminium
Cross section of shield braid	16 mm² / copper
Fire load	5.83 kWh/m
Weatherproof and UV-resistant	yes

### Maximal conductor length:

Class of LPS	Max. lightning current	No. of down conductors	Max. conductor length *)
I	200 kA	1	--
		2	21 m
		3	32 m
II	150 kA	1	14 m
		2	28 m
		3	42 m
III + IV	100 kA	1	21 m
		2	42 m
		3	64 m

\*) for "s" = 0.85 m in air





## HVC-85 Leitung **HVC-protected**

### HVC-85 conductor

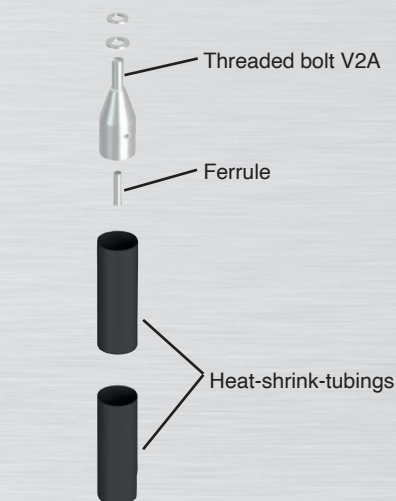
Specification	Fit	ca. Weight/m	PU.	Order no.
Length 25 m as a bunch	ø 28 mm	0.918 kg	1	600 001
Length 50 m on a non-returnable reel	ø 28 mm	0.918 kg	1	600 002
Length 100 m on a non-returnable reel	ø 28 mm	0.918 kg	1	600 003

#### Technical data:

Equivalent separation distance "s" - air	≤ 850 mm
Equivalent separation distance "s" - solid material	≤ 1700 mm
Outer diameter	28.0 mm (± 1.0 mm)
Minimum bending radius	250 mm
Ambient temperature during installation	> 0°C
Permanent temperature range	-20°C to +70°C
Max. tensile load	1500 N
Weight	ca. 0.918 kg/m
Cross section of stranded internal aluminium conductor	28 mm² / aluminium
Cross section of shield braid	16 mm² / copper
Fire load	5.83 kWh/m
Weatherproof and UV-resistant	yes

List of maximal conductor lengths (while "s" = 0.85 in air) on page 13

### Head-unit



Order no. 601 101

**Head-unit**, for **HVC-85** conductor, incl. a complete installation set consisting of 2 heat-shrink-tubings, ferrule, washer and springwasher.

Specification	Connection	PU	Order no.
Aluminium - for exterior pole installation	Hex bolt <b>V2A</b> M10 x 20 mm with a spring washer	1	601 100
Aluminium - for interior pole installation	Threaded bolt <b>V2A</b>	1	601 101
Aluminium - for spanning objects incl. multi-clamp <b>V2A</b>	Threaded bolt <b>V2A</b>	1	601 102
Aluminium - for connection to the attic	Threaded bolt <b>V2A</b> ø 10 x 105 mm	1	601 103

Head-unit made of **stainless steel V2A** on request!

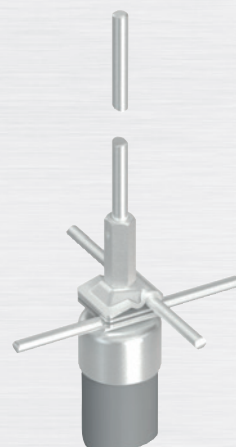
Application examples:



Head-unit  
order no. 601 100 +  
terminal plate  
order no. 632 400  
(see page 21)



Head-unit  
order no. 601 101



Head-unit  
order no. 601 102

### Spare parts, for head-unit

Specification	Fit	Length	PU	Order no.
Ferrule <b>copper</b> /tinned	ø 7 mm	30 mm	10	601 110
Heat-shrink-tubing with glue	ø 39 mm	125 mm	10	601 111



## HVC-85 conductor incl. installed head-unit

**HVC-85 conductor**, cut to length with installed head-unit. Including base unit **aluminium** for self-assembly. Minimum length of **HVC-85** conductor: 5.0 m.

Specification of head-unit (page 14)	Order no. 5.0 m	Order no. xx m
<b>Aluminium</b> - for exterior pole installation	601 100-5	601 100-xx
<b>Aluminium</b> - for interior pole installation	601 101-5	601 101-xx
<b>Aluminium</b> - for spanning objects incl. multi-clamp <b>V2A</b>	601 102-5	601 102-xx

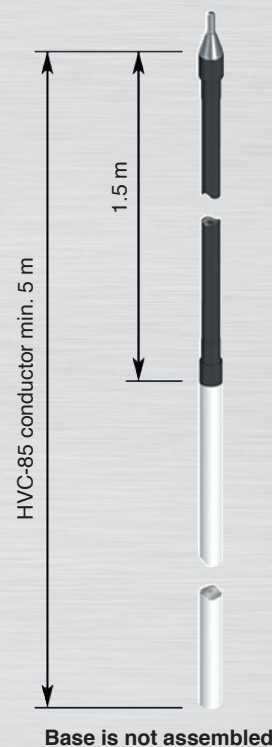
Head-unit made of **stainless steel V2A** on request!

The last digits of the order no. (**xx**) indicate the overall conductor length.

Order example: 601 100-10

Head-unit 601 100

Base-unit is included in delivery  
but not assembled



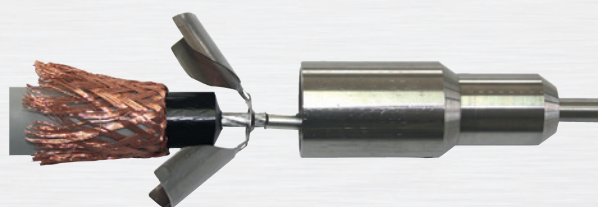
## Base-unit

**Base-unit**, for **HVC-85** conductor, incl. terminal bolt  $\varnothing$  10 mm made of **stainless steel V2A** and a complete installation set consisting of a heat-shrink-tubing, contact sheet and a ferrule.

Specification	Fit	Length	PU	Order no.
<b>Aluminium</b>	$\varnothing$ 10 mm	70 mm	1	601 200

Base-unit made of **stainless steel V2A** on request

Application examples:



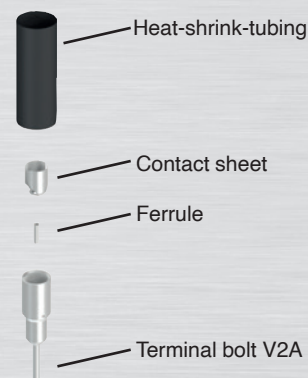
Observe the installation instructions for the installation!

Base-unit  
order no. 601 200 +  
Vario-clamp  
order no. 910 579

## Spare parts, for base-unit

Specification	Fit	Length	PU	Order no.
Ferrule <b>copper/tinned</b>	$\varnothing$ 7 mm	30 mm	10	601 110
Heat-shrink-tubing with glue	$\varnothing$ 52 mm	150 mm	10	601 112
Contact sheet <b>stainless steel V2A</b>	$\varnothing$ 7 mm		5	601 113

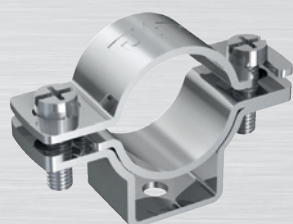
## Base-unit



Order no. 601 200



## HVC-85 conductor fastener



Order no. 612 003



Order no. 614 003



Order no. 612 001



Order no. 614 001



Order no. 612 004

## HVC-conductor fastener

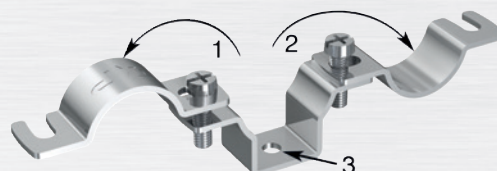
### HVC-85 conductor fastener

Specification	Fixing	Fit	PU	Order no.
Stainless steel V2A	ø 6.5 mm	ø 28 mm	50	612 003
Stainless steel V2A	ø 8.5 mm	ø 28 mm	50	612 002
Plastic	ø 6.5 mm	ø 28 mm	50	614 003

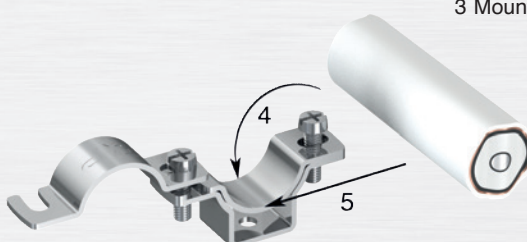
Application:



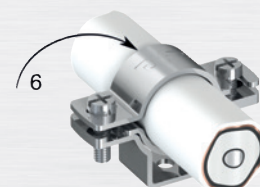
Delivery state



- 1 Open top fastener piece
- 2 Open bottom fastener piece
- 3 Mount conductor fastener



- 4 Swivel back bottom fastener piece
- 5 Insert HVC-conductor into fastener



- 6 Close top fastener piece and tighten screws



Screws in top part are self-retaining

### HVC-conductor fastener, with washer, screw and ø 8 mm dowel.

Specification	Conductor height	Fit	PU	Order no.
Stainless steel V2A	18 mm	ø 28 mm	50	612 001
Plastic	13 mm	ø 28 mm	50	614 001

### HVC-85 conductor fastener, for the direct fixing to walls. Also suitable for external thermal insulation composite systems

Specification	Fixing	Fit	PU	Order no.
Stainless steel V2A	ø 7 x 8,5 mm	ø 28 mm	50	612 004



## Roof conductor holder

Roof conductor holder, for flat roofs with **HVC-85** conductor fastener  $\varnothing$  28 mm, including concrete base (H-shape) and base plate

Specification	Concrete block	Fit	PU	Order no.
Stainless steel V2A with concrete block	5.0 kg	$\varnothing$ 28 mm	1	622 000
Stainless steel V2A with concrete block	7.5 kg	$\varnothing$ 28 mm	1	622 001
Plastic with concrete block	5.0 kg	$\varnothing$ 28 mm	1	624 000
Plastic with concrete block	7.5 kg	$\varnothing$ 28 mm	1	624 001

### Benefits:

- Laying the **HVC-85** conductor on flat roofs without additional screwing effort through clip fastening.
- Easier handling due to the low weight of the individual holders.

**PR-ÖKO 2 Adapter**, for **HVC-85** conductor, suitable for 1kg roof conductor holder  
Order no. 111 630

Specification	Fit	PU	Order no.
Plastic screwed	$\varnothing$ 28 mm	50	624 003

**Note:** Roof conductor holder PR-ÖKO 2 (Order no. 111 630) must be ordered separately.

Roof conductor holder, for universal use with **HVC-85** conductor fastener  $\varnothing$  28 mm.

Specification	Length	Fit	PU	Order no.
Stainless steel V2A	210 mm	$\varnothing$ 28 mm	1	612 080
Stainless steel V2A	280 mm	$\varnothing$ 28 mm	1	612 081
Stainless steel V2A	410 mm	$\varnothing$ 28 mm	1	612 082

Roof conductor holder, for Kalzip with **HVC-85** conductor fastener  $\varnothing$  28 mm.

Specification	Fastener	Fit	PU	Order no.
<b>Support</b>				
Stainless steel V2A	Stainless steel V2A	$\varnothing$ 28 mm	25	612 060
Stainless steel V2A	Plastic	$\varnothing$ 28 mm	25	614 060

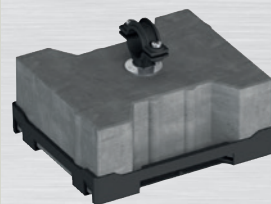
Roof conductor holder, for RIB-ROOF 500 with **HVC-85** conductor fastener  $\varnothing$  28 mm.

Specification	Fastener	Fit	PU	Order no.
<b>Support</b>				
Stainless steel V2A	Stainless steel V2A	$\varnothing$ 28 mm	25	612 070
Stainless steel V2A	Plastic	$\varnothing$ 28 mm	25	614 070

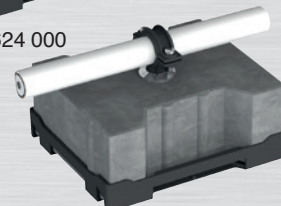
Roof conductor holder with **HVC-85** conductor fastener. For synthetic roofing membranes and bitumen roofs. To be fixed onto synthetic roofing membranes with weldable fastening strips; glued directly onto bitumen roofs.

Specification	Conductor height	Fit	PU	Order no.
<b>Support</b>				
Plastic HD-PE	28 mm	$\varnothing$ 28 mm	50	612 090

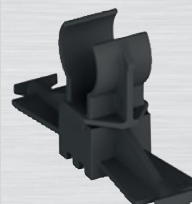
## Roof conductor holder



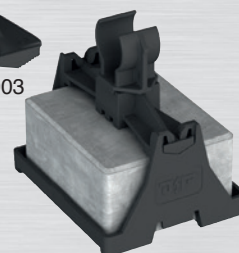
Order no. 624 000



Application example:



Order no. 624 003



Application example:

(J.P. patent)



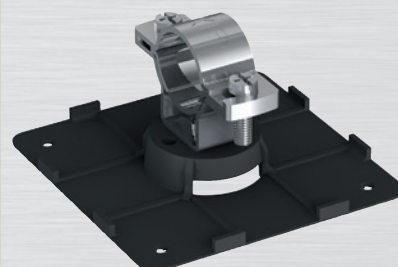
Order no. 612 080



Order no. 614 060



Order no. 614 070



Order no. 612 090





## Conductor support



Order no. 624 010



Order no. 624 020

## Conductor support

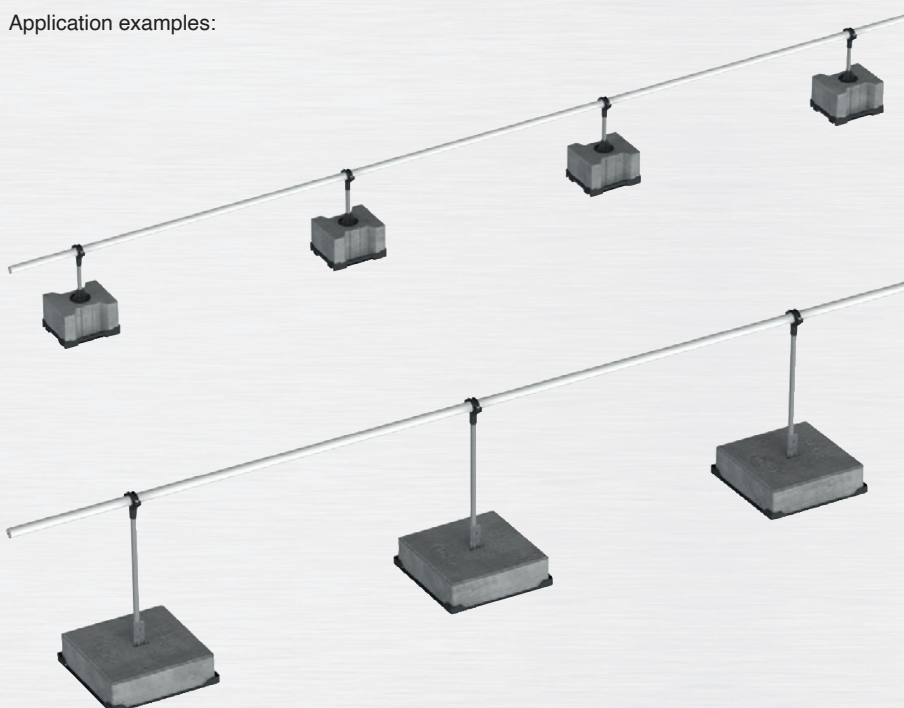
**Conductor support**, to increase the height of the **HVC-85** conductor on flat roofs. Incl. concrete base, H-shaped 7.5 kg, support plate and plastic conductor holder ø 28 mm.

Specification	Conductor height	PU	Order no.
Conductor support GRP ø 16 mm (SET)	300 mm	1	624 010
Conductor support GRP ø 16 mm (SET)	400 mm	1	624 011

**Conductor support**, to increase the height of the **HVC-85** conductor on flat roofs. Incl. concrete base 16kg with JP-wedge technology, support plate & plastic conductor holder ø 28 mm.

Specification	Conductor height	PU	Order no.
Conductor support GRP ø 16 mm (SET)	500 mm	1	624 020
Conductor support GRP ø 16 mm (SET)	600 mm	1	624 021
Conductor support GRP ø 16 mm (SET)	700 mm	1	624 022

Application examples:





## Mounting clamps

**Mounting plate and angle bracket**, to mount the **HVC-85** conductor  $\varnothing$  28 mm on walls and metal sheets.

Specification	HVC-85 conductor fastener	PU	Order no.
Mounting plate <b>stainless steel V2A</b>	Plastic	25	614 010
Angle bracket <b>stainless steel V2A</b>	Plastic	25	614 011
Mounting plate <b>stainless steel V2A</b>	<b>Stainless steel V2A</b>	25	612 010
Angle bracket <b>stainless steel V2A</b>	<b>Stainless steel V2A</b>	25	612 011

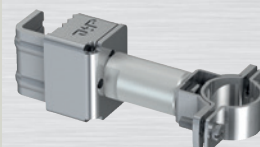


Order no. 614 010

Order no. 614 011

**Terminal clamp, heavy-duty type**, to mount the **HVC-85** conductor to steel constructions or railings with fixing bush, **aluminium**, and fastener, **stainless steel V2A**  $\varnothing$  28 mm.

Specification	Clamping area	Fit	PU	Order no.
Steel/hot galvanized	up to 19 mm	$\varnothing$ 28 mm	25	613 020
Steel/hot galvanized	19 - 36 mm	$\varnothing$ 28 mm	25	613 021
Steel/hot galvanized	36 - 52 mm	$\varnothing$ 28 mm	20	613 022
<b>Stainless steel V2A</b>	up to 19 mm	$\varnothing$ 28 mm	25	612 020
<b>Stainless steel V2A</b>	19 - 36 mm	$\varnothing$ 28 mm	25	612 021
<b>Stainless steel V2A</b>	36 - 52 mm	$\varnothing$ 28 mm	20	612 022

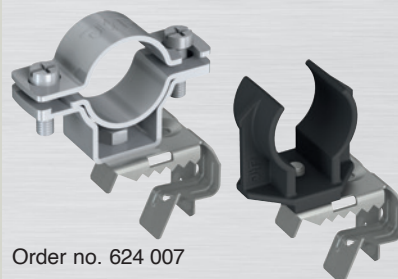


Order no. 612 021

**Beam clip** for **HVC-85** conductor;  
screwed on (for conductor relief) and snapped on (to fix the position)

Specification	Clamping range	Fit	PU	Order no.
<b>NEW!</b> Conductor fastener plastic	8 - 12.5 mm	$\varnothing$ 28 mm	50	624 006
Beam clip steel/hot galvanized		snapped on		
<b>NEW!</b> Conductor fastener <b>stainless steel V2A</b>	8 - 12.5 mm	$\varnothing$ 28 mm	50	624 007
Beam clip steel/hot galvanized		screwed on		

Additional clamping range on request.

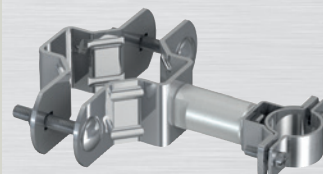


Order no. 624 007

Order no. 624 006

**Pipe clamp**, to mount the **HVC-85** conductor on pipes or railings with fixing bush, **aluminium**, and fastener, **stainless steel V2A**  $\varnothing$  28 mm.

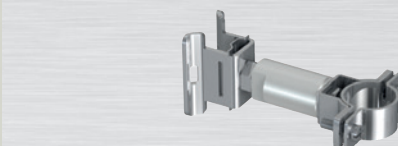
Specification	Fit	Pipe- $\varnothing$	PU	Order no.
Pipe clamp <b>stainless steel V2A</b>	$\varnothing$ 42.4 - 60.3 mm	1 1/4" - 2"	20	612 030
with mounting screw <b>V2A</b>	$\varnothing$ 42.4 - 88.9 mm	1 1/4" - 3"	20	612 031
Pipe clamp Steel/hot galvanized	$\varnothing$ 42.4 - 60.3 mm	1 1/4" - 2"	20	613 030
with mounting screw <b>V2A</b>	$\varnothing$ 42.4 - 88.9 mm	1 1/4" - 3"	20	613 031



Order no. 612 030

**Tape pipe clamp**, to mount the **HVC-85** conductor on pipes up to 300 mm with fixing bush, **aluminium**, and fastener, **stainless steel V2A**  $\varnothing$  28 mm.

Specification	Pipe- $\varnothing$	PU	Order no.
Tape pipe clamp with tensioning strap <b>stainless steel V2A</b>	up to $\varnothing$ 300 mm	10	612 041
Tape pipe clamp without tensioning strap <b>stainless st. V2A</b>	-	20	612 040
Tensioning strap <b>stainless steel V2A</b> , 22 x 0.4 mm	-	25 m	913 825
Tensioning strap <b>stainless steel V2A</b> , 22 x 0.4 mm	-	50 m	913 831



Order no. 612 040



Order no. 612 041

**Tape pipe clamp low type**, to mount the **HVC-85** conductor on pipes up to 300 mm. With tensioning tape and conductor fastener **V2A**  $\varnothing$  28 mm. Height of conductor 30 mm.

Specification	Pipe- $\varnothing$	PU	Order no.
Tape pipe clamp with tensioning strap <b>stainless steel V2A</b>	$\varnothing$ 50 - 150 mm	10	612 045
Tape pipe clamp with tensioning strap <b>stainless steel V2A</b>	$\varnothing$ 50 - 300 mm	10	612 046
Tape pipe clamp without tensioning strap	-	20	612 047
Tensioning strap <b>stainless steel V2A</b> , 15 x 0.4 mm	-	25 m	110 248

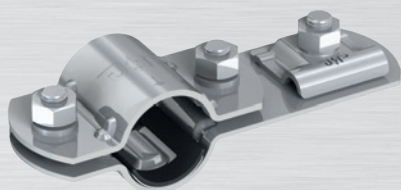


Order no. 612 045





## Equipotential bonding clamp



Order no. 612 051

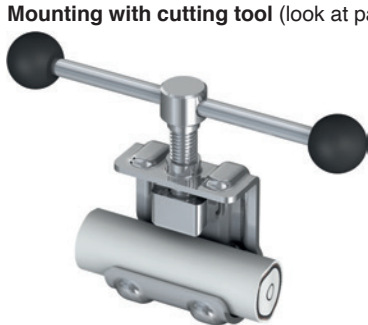
## Equipotential bonding clamp

Equipotential bonding clamp,  
with self-sealing and bonding plate for HVC-85 conductor

Specification	Fit	PU	Order no.
Stainless steel V2A	Square profile 9 mm	1	612 050
Stainless steel V2A	6 mm <sup>2</sup> (ø 2.8 mm) - 50 mm <sup>2</sup> (ø 8 mm)	1	612 051



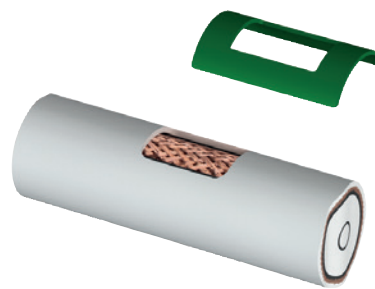
### Mounting with cutting tool (look at page 26):



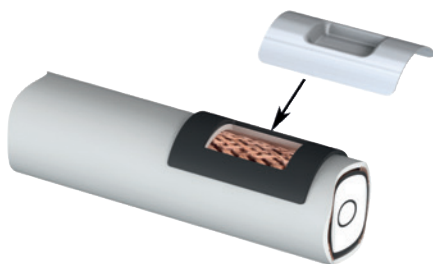
- 1 Clean HVC-conductor
- 2 Position cutting tool congruently



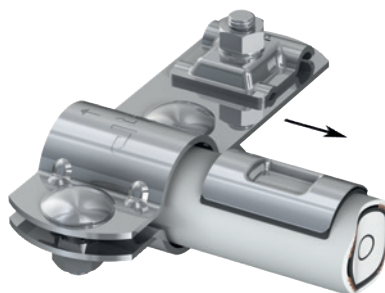
- 3 Screw the cutting tool down and afterwards open it



- 4 Remove cut material and cutting tool (expose copper shield braid)
- 5 Pull off foil from sealing and stick on one side



- 6 Pull off foil from sealing and stick on bonding plate



- 7 Position and tighten mounting clamp with bonding plate (10 Nm)



- 8 Attachment of the equipotential bonding conductor



## Accessories for HVC-50 and HVC-85

### Attention sign, "Attention Insulated lightning protection" / "Achtung Isolierter Blitzschutz"

Specification	Language	Fit	PU	Order no.
Aluminium with adhesive label	German	2 x ø 6.5 mm Hole spacing 125 mm	1	640 000
Aluminium with adhesive label	English	2 x ø 6.5 mm Hole spacing 125 mm	1	640 001
Adhesive label	German	95 mm x 55 mm	1	640 002
Adhesive label	English	95 mm x 55 mm	1	640 003

### Attention sign, "Attention Equipotential bonding" / "Achtung Potentialausgleich"

Specification	Language	Fit	PU	Order no.
Aluminium with adhesive label	German	2 x ø 6.5 mm Hole spacing 125 mm	1	640 004
Aluminium with adhesive label	English	2 x ø 6.5 mm Hole spacing 125 mm	1	640 005
Adhesive label	German	95 mm x 55 mm	1	640 006
Adhesive label	English	95 mm x 55 mm	1	640 007

**Conductor fastener** for exterior air termination installation of the HVC-conductor in the area of the insulated support GRP Ø 48 mm. As complete-Set or single fastener.

Specification	Clamping range	Fit	PU	Order no.
<b>NEW!</b> Complete-Set consisting of: 3x conductor fastener plastic with cable tie 1x terminal plate aluminium	Ø 48 mm	up to 4 HVC conductors (HVC-50 / HVC-85)	1	632 448
<b>NEW!</b> Single fastener 1x conductor fastener plastic with cable tie	Ø 48 mm	up to 4 HVC conductors (HVC-50 / HVC-85)	1	632 449

**Terminal plate**, for exterior air termination installation of the HVC-conductor.  
Up to 4 contact connections are possible.

Specification	Fit	PU	Order no.
Aluminium	ø 10.5 mm	1	632 400

### Cable tie, UV-resistant and weatherproof

Specification	Length	PU	Order no.
Plastic black (100 pieces)	7.6 x 560 mm	100	640 010

**Cleaning liquid**, to clean the HVC-conductor before mounting the equipotential bonding clamp or before attaching the head-unit or base-unit.

Specification	PU	Order no.
Cleaning liquid 1 litre (delivery only in Germany and Austria possible)	1	111 645

**Cover cap**, to prevent water and dirt entering during transport.

Specification	Fit	PU	Order no.
Plastic blue	ø 28 mm (HVC-85 conductor)	10	640 020
Plastic blue	ø 23 mm (HVC-50 conductor)	10	690 020

## Accessories



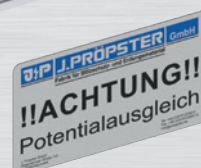
Order no. 640 000



Order no. 640 003



Order no. 640 005

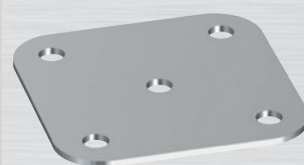


Order no. 640 006



Order no. 632 449

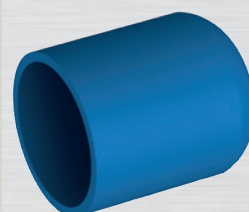
Application example



Order no. 632 400



Terminal plate order no. 632 400 +  
head-unit e.g. order no. 601 100  
(HVC-50 page 6, HVC-85 page 14)



Order no. 640 020

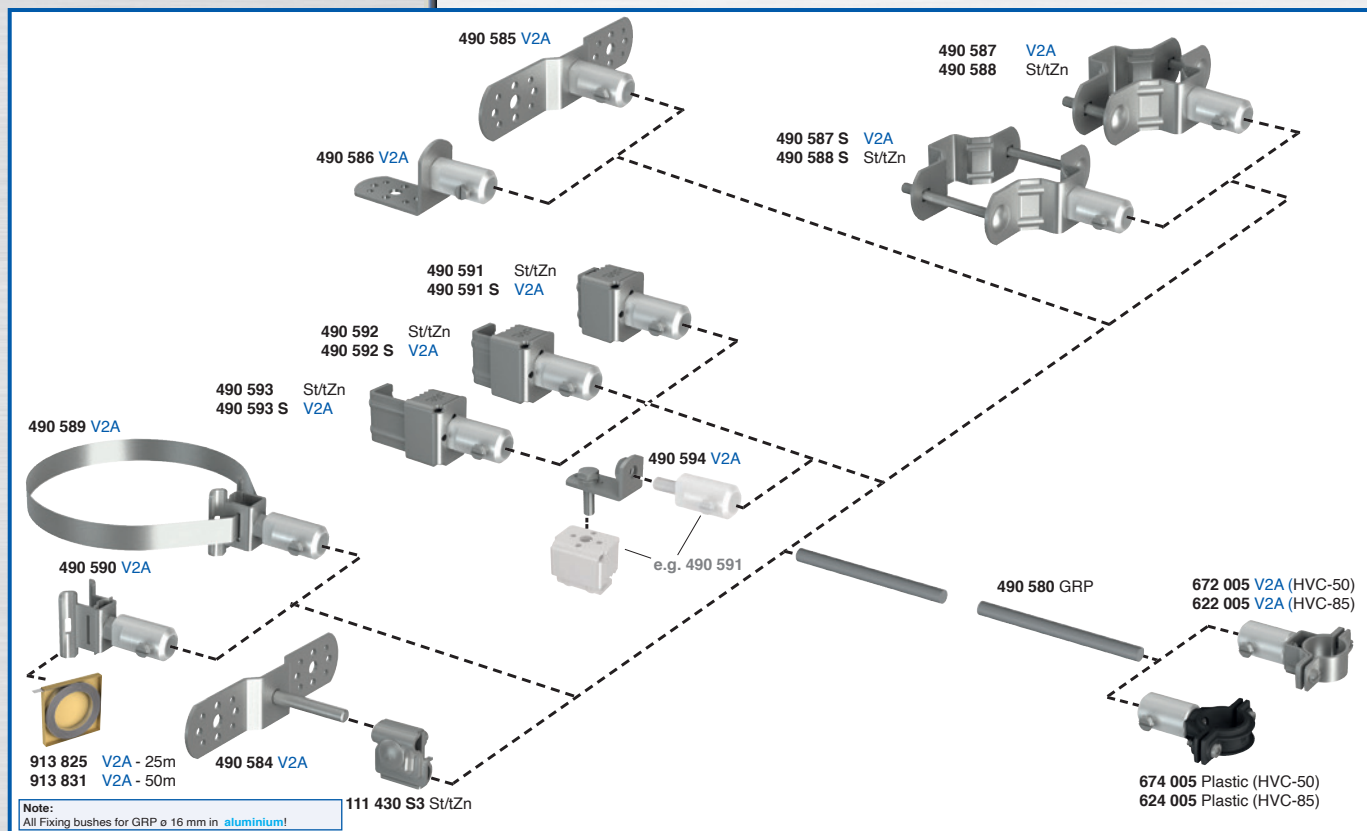




## Mounting stand-offs - for HVC 50 and HVC-85 - light-weight design

Individual combinations!

**16plus<sup>+</sup>**



### Fixing bush



Order no. 672 005



Order no. 674 005

### Fixing side conductor:

Fixing bush, with **HVC-50** conductor fastener ø 23 mm  
for fixing to the solid rod GRP ø 16 mm.

Specification	Length	PU	Order no.
Fixing bush <b>aluminium</b> , for GRP ø 16 mm;			
with <b>HVC-50</b> conductor fastener, <b>stainless steel V2A</b>	40 mm	25	672 005
with <b>HVC-50</b> conductor fastener, Plastic	40 mm	25	674 005

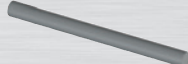
Fixing bush, with **HVC-85** conductor fastener ø 28 mm  
for fixing to the solid rod GRP ø 16 mm.

Specification	Length	PU	Order no.
Fixing bush <b>aluminium</b> , for GRP ø 16 mm;			
with <b>HVC-85</b> conductor fastener, <b>stainless steel V2A</b>	40 mm	25	622 005
with <b>HVC-85</b> conductor fastener, Plastic	40 mm	25	624 005

### Solid rod GRP



Ord. no. 490 580



### Solid rod GRP:

Solid rod GRP to be cut to length.

Specification	Length	PU	Ord. no.
Solid rod GRP, ø 16 mm	3.0 m	10	490 580



## Fixing side object:

**Mounting plate and angle bracket** for mounting on walls and metal sheets, with fixing bush **aluminium**, for GRP ø 16 mm.

Specification	PU	Ord. no.
Mounting plate <b>stainless steel V2A</b>	25	490 585
Angle bracket <b>stainless steel V2A</b>	25	490 586
Fixing bush <b>aluminium</b> , for GRP ø 16 mm with hexagonal screw M10 x 16 <b>stainless steel V2A</b>	25	490 582

## Mounting plate and angle bracket



**Mounting plate with bolt** for mounting on walls and metal sheets.

Specification	PU	Ord. no.
Mounting plate with bolt ø 10 mm <b>stainless steel V2A</b> / 60 mm	25	490 584
Multi-clamp steel, hot galvanized (ø 10 / ø 16 mm)	50	111 430 S3

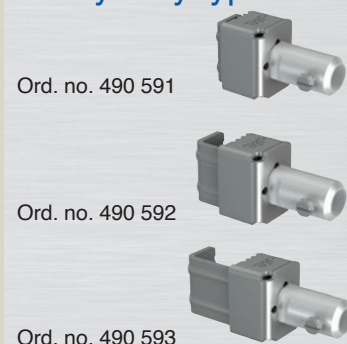
## Mounting plate with bolt



**Terminal clamp, heavy-duty type** for mounting on steel constructions or railings, with fixing bush **aluminium**, for GRP ø 16 mm.

Specification	Fit	PU	Ord. no.
Steel, hot galvanized	up to 19 mm	25	490 591
Steel, hot galvanized	19 - 36 mm	25	490 592
Steel, hot galvanized	36 - 52 mm	25	490 593
<b>Stainless steel V2A</b>	up to 19 mm	25	490 591 S
<b>Stainless steel V2A</b>	19 - 36 mm	25	490 592 S
<b>Stainless steel V2A</b>	36 - 52 mm	25	490 593 S
Angle bracket <b>stainless steel V2A</b> , for terminal clamp, with hexagonal screw, nuts and spring lock washer		25	490 594

## Terminal clamp, heavy-duty type



**Pipe clamp** for mounting on pipes or railings with fixing bush **aluminium**, for GRP ø 16 mm.

Specification	Fit	Fit in inch	PU	Ord. no.
Pipe clamp <b>stainless steel V2A</b> with fixing screws in <b>stainless steel V2A</b>	ø 42.4-60.3 mm	1 1/4" - 2"	20	490 587
	ø 42.4-88.9 mm	1 1/4" - 3"	20	490 587 S
Pipe clamp steel, hot galvanized with fixing screws in <b>stainless steel V2A</b>	ø 42.4-60.3 mm	1 1/4" - 2"	20	490 588
	ø 42.4-88.9 mm	1 1/4" - 3"	20	490 588 S

## Pipe clamp



**Pipe clamp** for mounting on pipes up to ø 300 mm with fixing bush **aluminium** for GRP ø 16 mm.

Specification	Pipe- ø	PU	Ord. no.
Pipe clamp with tensioning strap <b>stainless steel V2A</b>	max. ø 300 mm	10	490 589
Pipe clamp without tensioning strap <b>stainless steel V2A</b>	--	20	490 590
Tensioning strap <b>stainless steel V2A</b> , 22 x 0.4 mm	--	25 m	913 825
	--	50 m	913 831

## Tape pipe clamp



**Note:** For sheet metal chimneys, use an intermediate plate (e.g.: a piece of VA-sheet)





Order no. 632 000



Order no. 632 003

## Air termination pole for HVC-50 and HVC-85

Free-standing up to a height of 8.0 m

### Air termination pole SET for HVC-conductor, free-standing

Specification according to EN 62305-3 / EN 62561-2:

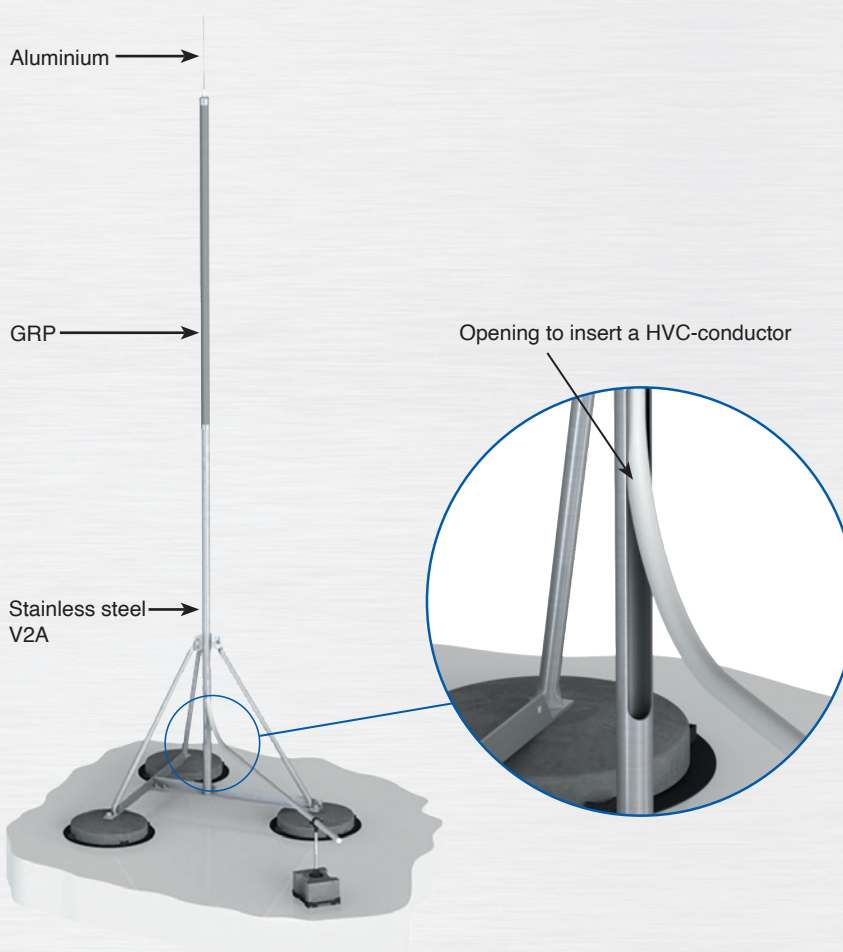
**Air termination tip:** Aluminium 0.4 m above air termination conductor height  
**Insul. support:** GRP 1.7 m  
**Stand pipe length:** Stainless steel V2A variable, with opening to insert the HVC conductor  
 Including air termination pole base frame, concrete bases and support plates

Total height	Pole parts	Pole base frame order no.	Concrete base order no.	Footprint	Order no.
3.0 m	1-part	499 000	4 x 499 100	0.65 x 0.65 m	632 000
4.0 m	1-part	499 005	3 x 103 101	1.33 x 1.28 m	632 001
5.0 m	1-part	499 005	3 x 103 118	1.37 x 1.32 m	632 002
6.0 m	2-part	499 006	6 x 103 101	1.87 x 1.66 m	632 003
7.0 m	2-part	499 006	6 x 103 110	1.87 x 1.66 m	632 004
8.0 m	2-part	499 007	10 x 103 110	1.90 x 1.75 m	632 005

### Wind speed according to Eurocode:

Air termination pole height	Order no.	Wind speed	
		Static safety factor 1.0	Static safety factor 1.5
up to 3.00 m	632 000	150 km/h	123 km/h
up to 4.00 m	632 001	171 km/h	140 km/h
up to 5.00 m	632 002	137 km/h	111 km/h
up to 6.00 m	632 003	156 km/h	127 km/h
up to 7.00 m	632 004	143 km/h	117 km/h
up to 8.00 m	632 005	157 km/h	128 km/h

Design of air termination pole (application example):



Air termination pole order no. 632 001 +  
 Insulated support order no. 624 011



## Air termination pole for wall mounting

unsupported up to a height of 8.0 m

### Air termination pole for HVC-conductor, self-supporting

Specification according to (DIN) EN 62305-3 / (DIN) EN 62561-2:

**Air termination tip:** Aluminium 0.4 m above air termination conductor height

**Insul. support:** GRP 1.7 m

**Stand pipe length:** Stainless steel V2A variable

Total height	Pole parts	Necessary wall fastener	Order no.
3.0 m	1-part	2x Type A	632 200
4.0 m	1-part	2x Type A	632 201
5.0 m	1-part	2x Type B	632 202
6.0 m	2-part	2x Type C	632 203
7.0 m	2-part	2x Type C	632 204
8.0 m	2-part	2x Type C	632 205

You can find additional pole fasteners e.g. rafter fastener in main catalogue.

### Wall fastener for poles with HVC-conductor up to max. height of 4.0 m and $\varnothing$ 42 mm.

Hole pattern for rivet and screw mounting and 2 x  $\varnothing$  10.5 mm.

Specification	Wall distance	PU	Ord. no.
Completely in stainless steel V2A for $\varnothing$ 42 mm	150 mm	1	490 550
pole clamp with 2 x screws M10	200 mm	1	490 551
spring lock washer and nut V2A	250 mm	1	490 552
	300 mm	1	490 553

### Wall fastener for poles with HVC conductor up to max. height of 5.5 m and $\varnothing$ 42 mm.

Hole pattern 4x  $\varnothing$  10.5 mm.

Specification	Wall distance	PU	Ord. no.
Completely in stainless steel V2A for $\varnothing$ 42 mm	150 mm	1	490 560
pole clamp with 2 x screws M10	200 mm	1	490 561
spring lock washer and nut V2A	250 mm	1	490 562
mounting plate V2A: 200 x 200 x 8 mm	300 mm	1	490 563
hole pattern mounting plate: $\square$ 170 x 170 mm			

### Wall fastener for poles with HVC conductor up to max. height of 8.0 m and $\varnothing$ 60 mm.

Hole pattern 4 x  $\varnothing$  12.5 mm.

Specification	Wall distance	PU	Ord. no.
Completely in stainless steel V2A for $\varnothing$ 60 mm	150 mm	1	490 570
pole clamp with 2 x screws M16	200 mm	1	490 571
spring lock washer and nut V2A	250 mm	1	490 572
mounting plate V2A: 300 x 300 x 8 mm	300 mm	1	490 573
hole pattern mounting plate: $\square$ 260 x 260 mm			

### Fixing anchors, stainless steel V4A for wall fastener on concrete walls.

Specification	PU	Ord. no.
M10 for wall fastener Type A and Type B	1	490 548
M12 for wall fastener Type C	1	490 549

### Air termination pole fastener for poles with HVC-conductor up to 5.0 m height and $\varnothing$ 42 mm. Tape pipe clamp V2A for clamping range up to 800 mm.

Specification	Wall distance	PU	Ord. no.
Completely in stainless steel V2A for $\varnothing$ 42 mm	150 mm	1	490 540
pole clamp with 2 x screws M10,	200 mm	1	490 541
spring lock washer and nut in V2A	250 mm	1	490 542
Tape pipe clamp with 2 x screws M8 V2A	300 mm	1	490 543



Order no. 632 200

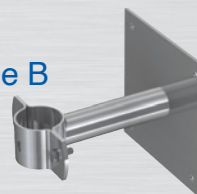
### Wall fastener

#### Type A



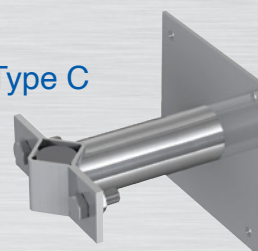
Order no. 490 550

#### Type B



Order no. 490 560

#### Type C



Order no. 490 570

### Fixing anchors



Order no. 490 548

### Air termination pole fastener



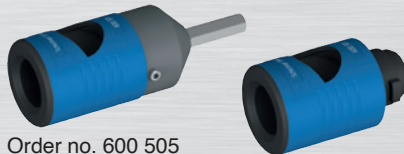
Ord. no. 490 540



## Peeling tool



Order no. 600 502



Order no. 600 505

Order no. 600 501



Order no. 600 510



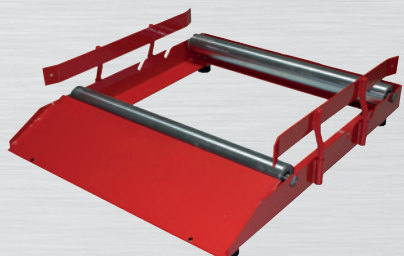
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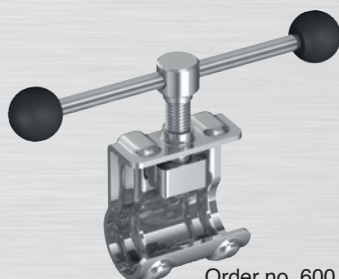
Order no. 600 530



Order no. 600 540



Order no. 600 550



Order no. 600 560

## Installation tools

Peeling tool, for uncovering the internal conductor of the HVC-conductor.

Specification		PU	Order no.
Peeling tool	Completely with handle and peeling head. For <b>HVC-85</b>	1	600 502
Peeling tool head	Matching for the handle piece or adapter. For <b>HVC-85</b>	1	600 501
Substitute blades	For the peeling tool head <b>HVC-85</b> and <b>HVC-50</b>	1	600 503
Peeling tool	To be used <b>with</b> a cordless screwdriver, completely with adapter and peeling tool head. For <b>HVC-85</b>	1	600 505
Adapter	For the use of the peeling head with a cordless screwdriver	1	600 504
Peeling tool	Completely with handle and peeling head. For <b>HVC-50</b>	1	650 502
Peeling tool head	Matching for the handle piece or adapter. For <b>HVC-50</b>	1	650 501
Peeling tool	To be used <b>with</b> a cordless screwdriver, completely with adapter and peeling tool head. For <b>HVC-50</b>	1	650 505

Stripping knife, to remove the outer jacket of the HVC-conductor.

Specification	PU	Order no.
Stripping knife for <b>HVC-85</b> conductor	1	600 510
Stripping knife for <b>HVC-50</b> conductor	1	650 510

Shear for conductor, to cut the HVC conductor with ratchet mechanism

Specification	Fit	PU	Order no.
Shear for conductor	up to ø 28 mm	1	600 520

Shear for shield braid,  
to cut the shield braid of the HVC conductor.

Specification	PU	Order no.
Shear for shield braid	1	600 530

Torque wrench, to mount the head-unit or base-unit

Specification	Adjustable	Bits	PU	Order no.
Torque wrench	torque 2 - 6 Nm	hex 3 mm	1	600 540

Unwinder for reel, to unwind the HVC-conductor.

Specification	PU	Order no.
To unwind 50 m and 100 m reels Suitable for a reel width up to 520 mm	1	600 550

Cutting tool for uncovering the contact surface to install the equipotential bonding clamp on the HVC-conductor.

Specification for <b>HVC-85</b> conductor	PU	Order no.
Stainless steel V2A with crank handle	1	600 560
Stainless steel V2A for use with cordless screwdriver	1	600 561
Cutting head hardened steel for cutting tool	1	600 562
Specification for <b>HVC-50</b> conductor	PU	Order no.
Stainless steel V2A with crank handle	1	650 560
Stainless steel V2A for use with cordless screwdriver	1	650 561
Cutting head hardened steel for cutting tool	1	650 562



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# TERMS OF SALE AND DELIVERY

## for commercial business transactions

THIS IS AN ENGLISH TRANSLATION FOR INFORMATION PURPOSES ONLY. FOR ALL LEGAL PURPOSES REFERENCE SHOULD BE MADE TO THE GERMAN ORIGINAL

### 1. General:

All deliveries are subject to our terms, even if the customer specifies different terms. Any arrangements that have not been included in the confirmed order or that have not been confirmed by us in writing, are non-binding.

On publishing the main catalogue 2019 all previously existing prices and price agreements lose their validity.

### 2. Quotation:

If not arranged otherwise, our quotations are non-binding and without engagement.

We do not accept any responsibility or liability whatsoever for the functionality of products manufactured according to the customer's drawings or for any other defects which may occur as a result of the customer's instructions. Documents, such as diagrams, drawings, information about weight and dimensions of products represent approximations only; unless such information is described as "binding". We reserve the copyright for all cost estimates, drawings and other documents. Any such documents become our property and may not be disclosed to third parties. Any infringements are liable for full damages. In case of infringement, we also reserve the right to withdraw immediately from a contract. Constructional designs are also subject to change. Drawings and other documents included in our bids must be returned to us or remunerated on request or, if we have not been granted the contract, immediately. The amount payable will be determined by us based on economic factors at our reasonable discretion.

### 3. Order – Completion of the contract:

Orders are not valid until they have been confirmed by us in writing. A commercial invoice may also serve as order confirmation.

### 4. Prices

All prices are in EURO excluding sales tax. Unless otherwise agreed, prices are stated ex works, including standard packaging. Sales tax will be calculated based on the valid rate on the day of delivery. Any discounts will be deducted from the list prices. We reserve the right to re-calculate the prices for products or energy costs that are associated with an official authorization, if the official authorization takes effect in the time between contracting and product delivery. Additionally, we also reserve the right for a re-calculation, if collectively agreed upon wage and salary increases have taken effect in the time between contracting and product delivery. The prices listed for components made of copper, brass or red brass are based on a DEL copper quote of 153.39 EUROS. Should the DEL quote increase by more than 12.78 EUROS per 100 kg, we will charge an additional non-ferrous metal fee. The price calculation is based on the DEL quote on the day after receipt of the clarified order. If one of our cost price factors is excluded from the price fixing process and a traceable cost price factor arises subsequently, we will be authorized to re-calculate the price, if the price increase occurs in the time between contracting and product delivery. The prices listed are non-binding, recommended prices. Our products may be resold at a higher or lower price by our customers.

### 5. Terms of payment

Unless otherwise agreed in writing, all payments must be made either within 8 days after invoice date with a 2% cash discount or in full within 30 days after invoice date. Payment is automatically considered overdue the day after these appointed payment dates have expired. A payment reminder to establish the debt is not required.

We reserve the right to appropriate any payments made first to the cost, then to the interest and thereafter to the oldest, still outstanding invoices, even if the customer makes different stipulations at the time of making a payment. If, after conclusion of the contract, it comes to our notice through our enquiries and other facts that it is, at our discretion, not advisable to allow the customer credit to the amount of the invoice we will be entitled to ask for advance payments, security for all deliveries or to withdraw from the contract. If advanced payments or security deposits are not made within the time period stipulated by us, we are entitled to claim damages due to default. If the customer falls behind with making partial or full payment, all of our payment claims become due immediately.

The customer has no right to retain or reject the services owed to him. From the due date of the payment, the customer will be charged with interest on arrears which is 2% higher than the interest normally charged by our bank. For orders with a net value (value of items without shipping costs and sales tax) of less than EURO 40.00, an extra charge of EURO 5.00 for small quantities will be invoiced. Cash sales are excluded.

### 6. Reservation of title

We reserve the right of ownership in respect of the goods supplied until such time as all claims under the business relationship with the partner have been met. The customer's claims from the resale of the reserved goods and/or further manufacturing steps involving the use of our goods are fully transferred to us. Passing on our goods is only permitted within the context of proper business operations. In the event that the customer sells or delivers the reserved goods, with or without further processing, together with other goods that are not our property, then the assignment of the accounts receivable resulting from the resale only applies to the value of the reserved goods. The customer has no other rights of disposal concerning the reserved goods. At our request the customer is obliged to inform us about his customer and the agreed selling price and to inform his customer of any assignment to us.

### 7. Delivery

The agreed delivery times commence on the day on which the contract becomes legally effective. Unforeseen events, such as war, mobilization, natural phenomena, disturbances of normal factory operations which are beyond our control, delayed delivery or quality defects of raw materials, etc., damage to important workpieces, or difficulties of various kinds due to unstable economic conditions, entitle us to extend the delivery time by the time required to deal with these events. We are also entitled to withdraw from the contract if any such events occur, even if the delivery time has already been extended. Such circumstances neither entitle the customer to withdraw from the contract nor to claim damages.

### 8. Shipping

The delivery is considered to have been effected as soon as the goods have left the factory or the warehouse, even if delivery carriage paid has been arranged. Upon request by and at the expense of the customer, we can insure the consignment against breakage, fire and transport damage.

### 9. Warranty and liability

The customer or his representative must inform us immediately on receipt of the goods in writing about any immediately apparent defects and any latent defects which are discovered upon careful inspection of the goods delivered, including incomplete delivery. We are entitled to take back faulty goods, to issue a credit note or to replace with faultless goods, if the defect has been claimed immediately. This also applies to defects that were not recognized during the immediate entry inspection. We shall not assume liability for any damage caused by incorrect installation or modifications made to the product. Further claims by the customer, such as redhibitory action, reduction of the purchasing price, compensation, as well as claims brought forth by third parties are excluded. We are not liable for any damage not deriving from the delivered goods themselves. In particular, we are not liable for lost profit or other financial losses incurred by the customer. The aforementioned limitations of liability do not apply in the case of specific intent or gross negligence. They also do not apply if the customer has claimed damages due to default because the product is lacking an advertised property according to §§ 463, 480 II BGB (German Civil Code). Compensation is limited to foreseeable damage. In the event that we violate a cardinal duty or a contractual obligation through negligence or we are responsible for a culpa in contrahendo we are liable only for standard contractual loss or loss which might reasonably have been expected.

We deliver only functional goods. A warranty for using the goods for the purpose intended by the customer can only be given, if we have issued our express written consent.

So far as our liability for damages is excluded or limited, it can also be applied to any other claims, including claims due to culpa in contrahendo, infringement of minor obligations and claims arising from the producer's liability according to § 823 BGB (German Civil Code).

The above paragraph does not apply to claims according to §§ 1, 4 of the Produkthaftungsgesetz (German Product Liability Law) or in cases of inability or impossibility.

So far as our liability is excluded or limited this also applies to the personal liability of our employees, representatives, deputies and assistants.

Any liability claims cease in agreement with § 477 BGB (German Civil Code), excluding claims arising from the producer's liability according to §§ 823 cont. BGB (German Civil Code).

### 10. Returning material

Delivered products can only be returned in exceptional cases and only with our approval. The goods must be in their original packaging. Goods which were delivered more than 3 months ago cannot be returned.

In order to cover the costs of handling returned goods, we charge a return fee amounting to 10% of the goods' net value. If, for special reasons, we agree to take back unpacked parts or parts that are not in their original packaging, a fee for new packaging amounting to 10% will be added to the return fee. Transport costs for returned goods will not be paid by us.

### 11. Data privacy

The customer's data concerning our business relationship with him will be handled according to the German Federal Data Protection Law.

### 12. Place of fulfilment, place of jurisdiction

German law is applicable to these terms of sale and delivery and to the entire legal relationship between the contractual partners. The UN Convention on Contracts for the International Sale of Goods (CISG) from 04/11/1980 is not applicable.

Place of fulfilment and jurisdiction for delivery, payment and all liabilities, including any action relating to payment by bill of exchange or cheque, is the town of Neu-markt/Opf. Invalidity of one part of these terms of delivery does not affect the other parts of this agreement. In this case, the invalid part is replaced by the current legal regulation. Any changes or alterations to these terms of delivery require the written consent of the seller.

Sales tax identification no.: DE 133211151 J. Pröpster GmbH.

Register of companies Nuremberg, HRB 8169,

Managing directors: Johann Pröpster; Prof. Dr. h.c. Dipl. Ing. Johann Pröpster





HVC installation instruction



Insulated lightning protection



Main Catalogue

## J. Pröpster GmbH Specialist manufacturer of lightning protection and earthing materials

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