

HVI®power

High-voltage-resistant conductor
for all classes of lightning protection systems (LPS)



Powerful: The new HVI®power conductor is the ideal solution for all classes of LPS

Suitable for class of LPS I

The complete system including accessory is tested with lightning impulse currents (10/350 μ s) of 200 kA. HVI®power is capable of conducting the maximum current in a down conductor (200 kA).

Separation distance increased by 20%

HVI®power allows to keep an equivalent separation distance of 90 centimetres in air and 180 centimetres in case of solid material. This means that the separation distance kept by HVI®power is 20% higher than that of other high-voltage-resistant conductors (75 centimetres).

Extremely easy to use

The new spring in the supporting tube allows to automatically contact the semi-conductive coating of HVI®power, thus establishing the sealing end. The functional equipotential bonding is directly connected to the metal supporting tube. This ensures fast and easy installation and minimises installation errors.

Optimised wind load

HVI®power is installed in the stainless steel supporting tube. This has the following advantages:

- Improved aesthetic appearance since the conductor is not visible
- Small area exposed to wind
- Faster installation

Easy configuration

The connection set allows to easily install HVI®power.

Easy handling

The plastic insulation can be stripped by means of the HVI®strip 27 tool without damaging the copper conductor.



Design of the HVI®power

HVI®power – Technical data	
Length of the sealing end	180 cm
Outer diameter of the conductor	27 mm
Cross-section of the inner conductor (Cu)	25 mm ²
Minimum bending radius	270 mm
Weight	728 g/m
Sheath	UV-stabilised, weather-proof

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Easy to use: The unique spring contact of HVI®power allows easy handling

Unique spring contact

The spring contact allows automatic connection to the functional equipotential bonding, thus ensuring fast and easy handling. Possible installation errors are avoided.



Spring contact of HVI®power from DEHN

Easy insertion of HVI®power

In only two steps HVI®power is inserted in the stainless steel supporting tube:

Step 1: HVI®power is inserted in the supporting tube and led through the spring element. In doing so, the semi-conductive coating of HVI®power automatically contacts the metal supporting tube, thus establishing the sealing end required for discharging high lightning impulse voltages to a reference potential.



Step 2: The head piece for the installation of HVI®power is fixed using a locking screw on the side of the supporting tube. The position of the screw shows whether the HVI®power conductor is installed correctly.



HVI®power and accessory	Part No.
Prewired HVI®power I, L = 6 m	819 160
Prewired HVI®power III, L = 6 m	819 162
HVI®power long on a reel, 100 m	819 137
Connection set (head piece and 1 connection element)	819 142
Metal conductor holder, M8 thread	275 240
Metal conductor holder, M8 thread, plastic base	275 249
Metal conductor holder, M6 thread	275 241
Metal conductor holder, longitudinal hole D = 5.5 mm	275 242
GRP/StSt supporting tube L = 3.5 m, with air-termination rod (1 m)	105 320
GRP/StSt supporting tube L = 3.5 m, with air-termination rod (2.5 m)	105 321
GRP/StSt supporting tube L = 5 m, with air-termination rod (1 m)	105 322
GRP/StSt supporting tube L = 5 m, with air-termination rod (2.5 m)	105 323
EB connection element (Ø 27 mm)	410 239
HVI®strip 27 tool/handle and stripping insert	597 227
HVI®head 27 separate stripping insert	597 127



HVI®strip 27 tool for easily stripping the insulation of the HVI®power Conductor

HVI®strip 27 – Technical data	Part No. 597 227
Outer diameter of the conductor	27 mm
Material of the stripping insert	Aluminium
Material of the blade	Stainless steel
Material of the handle	Impact-resistant plastic