

HVI check

Dielectric withstand test of the HVI Conductors



HVI check for easily determining the function and condition of HVI Conductors: Both the 1 kV and 15 kV measuring methods can be used to reliably detect both mechanical and electrical damage (e.g. holes or electrical breakdown as a result of overloads) to HVI Conductors.

Your benefits at a glance:

Freedom of choice and flexibility.

A method can be selected depending on the lightning protection system and individual requirements: 1 kV for locating various types of damage/impairment and 15 kV for rapid detection of holes.

Safety.

Electrical and mechanical damage can be found quickly by means of a HVI check.

Cost saving and familiar handling.

The test can be carried out with a commercially available insulation measuring device that you may already own.

Saving time and effort.

Performing the test involves little installation work.

HVI check in detail

HVI check includes the two measuring methods 1 kV and 15 kV, testable / insulated connection elements, insulating caps, tools and clamps. The test is to be carried out with a commercially available insulation measuring device.

Products



Insulated connection element, earth-side (BO10)



Insulated connection element, installation inside the tube



Insulated connection element, installation outside the tube



Measuring point clamp



ISO head stripping tool

HVI light plus	Part No. 819 646	Part No. 819 647	Part No. 819 648	Part No. 819 649	Part No. 597 125
HVI	Part No. 819 173	Part No. 819 174	Part No. 819 175	Part No. 819 649	Part No. 597 126
HVI power	Part No. 819 176	Part No. 819 177	Part No. 819 178	Part No. 819 179	Part No. 597 128



Insulating caps

Part No. 597 815



Discharge bar

Part No. 758 021



Warning sign

Part No. 700 059

Measuring methods and types of defect

The following types of defect can be identified depending on the method (1 kV or 15 kV):

Type of defect	Measuring method	
	1 kV	15 kV
HVI Conductor screwed through the centre - connection of inner conductor with earthed metal facade	✓	✓
HVI Conductor screwed through the centre - connection of inner conductor with the semiconductive sheath	✓	✓
HVI Conductor severed	✗	✓
HVI Conductor with electrical breakdown after overload - in Ex zone 1 and 21 (without an explosive atmosphere)	✗	✓
HVI Conductor with hole - in Ex zone 1 and 21 (without an explosive atmosphere)	✗	✓

Note: It is assumed that the HVI Conductors have been installed with insulated connection elements throughout.

The test instructions with checklist for testing the HVI lightning protection system can be found at <http://de.hn/bd2Pz>



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Learn more about
HVI lightning protection:
<http://de.hn/9QodT>

