

List of activities within the flexible scope of accreditation

Accredited Body: EGU - HV Laboratory a.s.

CAB Name: EGU HV LABORATORY

CAB Number: 1029

Certificate of Accreditation No.: 530/2023

Field of Accreditation: Testing laboratory – ČSN EN ISO/IEC 17025:2018

Updated: 12. 9. 2024

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Subject of the test	Degrees of freedom ³
24.5	Heat cycle test (Heating cycle voltage in water)	HD 629.1 S3	Cable accessories	D
24.5	Heat cycle test (Heating cycle voltage in air)	HD 629.1 S3	Cable accessories	D
9.5	Electromagnetic interference measurement	IEC 60383-1 ed.5.0, cl. 14	Ceramic or glass insulators	D
14.3	Mechanical force tests (tension, bending, impact)	IEC 60383-1 ed.5.0, cl. 21, 30	Ceramic or glass insulators	D
20.1	Determination of the coating mass by the magnetic test method	IEC 60383-1 ed.5.0, cl. 27	Ceramic or glass insulators	D
13.2	Test for the core material (dye penetration test and water diffusion test)	IEC 60383-1 ed.5.0, cl. 26	Ceramic or glass insulators	D
10.1	Impulse voltage puncture test and alternating voltage test	IEC 60383-1 ed.5.0, cl. 15.2, cl. 15.3	Ceramic or glass insulators	D
14.26	Mechanical force tests	VDE 0276-632, cl. 12.4.3	Power cables from 30 kV up to 150 kV	D
8.15	Measurement of partial discharges and loss factor	VDE 0276-632, cl. 12.4.4, 12.4.5	Power cables from 30 kV up to 150 kV	D
24.2	Temperature cycle tests	VDE 0276-632, cl. 12.4.6	Power cables from 30 kV up to 150 kV	D
3.42	Tests with lightning impulse voltage	VDE 0276-632, cl. 12.4.7	Power cables from 30 kV up to 150 kV	D
23.3	Measurement of electrical resistance, resistivity and magnetic losses	VDE 0276-632, cl. 12.4.9	Power cables from 30 kV up to 150 kV	D
18.22	Verification of dimensions, displacement, contact angle and locking systems	VDE 0276-632, cl. 12.4.8	Power cables from 30 kV up to 150 kV	D

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2.46	AC voltage tests	VDE 0276-632, cl. 12.4.7	Power cables from 30 kV up to 150 kV	D
14.28	Mechanical force tests	IEC 61467 Ed.1.0, cl. 10.5, Table 4 ČSN EN 61467, cl. 10.5, Table 4	Insulator strings for overhead lines over 1 kV	D
14.3	Mechanical force tests (tension, bending, impact)	IEC 60383-1 ed.5, cl. 28 ČSN IEC 60383-1 ed.5, cl. 28	Ceramic or glass insulators	A,D
1.8	DC voltage tests	HD 632 S3, G 4.3.1	Power cables from 30 kV up to 150 kV	A,D
2.46	AC voltage tests	HD 632 S3, cl. 9.3, 12.4.7	Power cables from 30 kV up to 150 kV	A,D
3.42	Tests with lightning impulse voltage	HD 632 S3, cl. 12.4.7, Annex G 4.3.2	Power cables from 30 kV up to 150 kV	A,D
8.15	Measurement of partial discharges and loss factor	HD 632 S3, cl. 9.2, 12.4.4, 12.4.5	Power cables from 30 kV up to 150 kV	A,D
14.26	Mechanical force tests	HD 632 S3, cl. 12.4.3	Power cables from 30 kV up to 150 kV	A,D
17.10	Temperature cycle tests	HD 632 S3, Annex G3	Power cables from 30 kV up to 150 kV	A,D
18.22	Verification of dimensions, displacement, contact angle and locking systems	HD 632 S3, cl. 12.4.8.1, Annex G5	Power cables from 30 kV up to 150 kV	A,D
21.2	Oil, gas and water leak test	HD 632 S3, Annex E	Power cables from 30 kV up to 150 kV	A,D
23.3	Measurement of electrical resistance, resistivity and magnetic losses	HD 632 S3, cl. 12.4.9, Annex D	Power cables from 30 kV up to 150 kV	A,D
24.2	Temperature cycle tests	HD 632 S3, cl. 12.4.6	Power cables from 30 kV up to 150 kV	A,D

¹ asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

² if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes)

³ degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

Explanations and abbreviations:

ANSI - American National Standards Institute
AS - Australian Standard



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- CAN/CSA - Canadian Standard
- IEEE - Standard published by an international non-profit professional organization
- IP - Internal Testing Procedure
- NEMA - National Electrical Manufacturers Association
- NTC - Colombian Standard
- HD - Harmonized Document
- GR No. 291/2015 Coll. - on health protection against non-ionising radiation
- PNE - Branch standard
- MoH CR Bulletin No. 8/2017 - Guideline for the procedure pursuant to Sections 35 and 36 of Act No. 258/2000 Coll., on the protection of public health and on the amendment of certain related acts, as amended, and Government Decree No. 291/2015 coll., on the protection of health against non-ionizing radiation