



SLOVENSKI STANDARD
SIST EN 50655-1:2023

01-december-2023

Električni kabli - Pribor - Značilnosti materialov - 1. del: Identifikacija materiala za smolne zmesi

Electric cables - Accessories - Material characterization - Part 1: Fingerprinting for resinous compounds

Kabel und isolierte Leitungen - Garnituren - Materialcharakterisierung - Teil 1: Fingerprintprüfungen für Reaktionsharzmassen

Câbles électriques - Accessoires - Caractérisation des matériaux - Partie 1: Essais d'identification pour les composés résineux

Ta slovenski standard je istoveten z: EN 50655-1:2023

[SIST EN 50655-1:2023](https://standards.sist.si/standards/sist/50655-1:2023/en/50655-1:2023)

ICS:

29.035.20	Plastični in gumeni izolacijski materiali	Plastics and rubber insulating materials
29.060.20	Kabli	Cables

SIST EN 50655-1:2023

en

EUROPEAN STANDARD

EN 50655-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2023

ICS 29.035.20

Supersedes EN 50655-1:2017

English Version

Electric cables - Accessories - Material characterization - Part 1: Fingerprinting for resinous compounds

Câbles électriques - Accessoires - Caractérisation des matériaux - Partie 1: Essais d'identification pour les composés résineux

Kabel und isolierte Leitungen - Garnituren - Materialcharakterisierung - Teil 1: Fingerprintprüfungen für Reaktionsharzmassen

This European Standard was approved by CENELEC on 2023-10-16. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

iTeh Standards
Document Preview

[SIST EN 50655-1:2023](https://standards.iteh.ai/catalog/standards/sist/71324c04-aa29-4854-8be9-776ab03aa830/sist-en-50655-1-2023)

<https://standards.iteh.ai/catalog/standards/sist/71324c04-aa29-4854-8be9-776ab03aa830/sist-en-50655-1-2023>



European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Fingerprinting	7
4.1 General	7
4.2 Sampling	7
4.3 Preparation and conditioning	8
4.4 Sequence of tests	8
4.5 Test report	8
Annex A (informative) Health and safety	13
Bibliography	14
Tables	
Table 1 — Fingerprinting tests — Test methods and requirements for Polyurethane resins ...	9
Table 2 — Fingerprinting tests — Test methods and requirements for Polybutadiene resins	10
Table 3 — Fingerprinting tests — Test methods and requirements for Epoxy resins	11
Table 4 — Fingerprinting tests — Test methods and requirements for Silicone resins	12


 (https://standards.iteh.ai)
 Document Preview

[SIST EN 50655-1:2023](https://standards.iteh.ai/catalog/standards/sist/71324c04-aa29-4854-8be9-776ab03aa830/sist-en-50655-1-2023)

<https://standards.iteh.ai/catalog/standards/sist/71324c04-aa29-4854-8be9-776ab03aa830/sist-en-50655-1-2023>

European foreword

This document (EN 50655-1:2023) has been prepared by CLC/TC 20 “*Electric cables*”.

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2024–10–16
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2026–10–16

This document supersedes EN 50655-1:2017.

EN 50655-1:2023 includes the following significant technical changes with respect to EN 50655-1:2017:

- a) Description of sample preparation (4.3.2);
- b) Introduction of separate tables for Polyurethane, Polybutadiene, Epoxy and Silicone resins for fingerprinting tests;
- c) Detailed definition of test parameters, e.g. determination of the spindle for the viscosity measurement, valid measurement range for Shore hardness;
- d) Revision of max. acceptable deviation (Tables 1-4).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

EN 50655 series consists of the following:

- EN 50655-1, *Electric cables - Accessories - Material characterization - Part 1: Fingerprinting for resinous compounds*;
- EN 50655-2, *Electric cables - Accessories - Material characterization - Part 2: Fingerprinting for heat shrinkable components for low and medium voltage applications up to 20,8/36 (42) kV*;
- EN 50655-3, *Electric cables - Accessories - Material characterization - Part 3: Fingerprinting for cold shrinkable components for low and medium voltage applications up to 20,8/36 (42) kV*.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

EN 50655-1:2023 (E)**Introduction**

It has been assumed in the preparation of this document that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

WARNING This European Standard calls for the use of substances and/or procedures that may be injurious to health if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations relating to health and safety at any stage.

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN 50655-1:2023](https://standards.iteh.ai/catalog/standards/sist/71324c04-aa29-4854-8be9-776ab03aa830/sist-en-50655-1-2023)

<https://standards.iteh.ai/catalog/standards/sist/71324c04-aa29-4854-8be9-776ab03aa830/sist-en-50655-1-2023>