

STN	Výbušniny na civilné použitie Rozbušky a bleskovicové oneskorovače Časť 4: Overenie odolnosti prírodných vodičov a rázových rúrok proti oteru	STN EN 13763-4 66 8083
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Explosives for civil uses - Detonators and detonating cord relays - Part 4: Verification of resistance to abrasion of leading wires and shock tubes

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/26

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EUROPEAN STANDARD
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EUROPÄISCHE NORM

EN 13763-4

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ICS 71.100.30

Supersedes EN 13763-4:2003

English Version

**Explosives for civil uses - Detonators and detonating cord
relays - Part 4: Verification of resistance to abrasion of
leading wires and shock tubes**

Explosifs à usage civil - Détonateurs et relais pour
cordeau détonant - Partie 4 : Vérification de la
résistance à l'abrasion des fils d'amorce et des tubes à
transmission d'ondes de choc

Explosivstoffe für zivile Zwecke - Zünder und
Sprengschnurverbinder - Teil 4: Überprüfung der
Widerstandsfähigkeit von Zünderdrähten und
Zündschläuchen gegenüber Abrieb

This European Standard was approved by CEN on 29 September 2025.

CEN 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 CEN 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 CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

EN 13763-4:2025 (E)

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European foreword

This document (EN 13763-4:2025) has been prepared by Technical Committee CEN/TC 321 “Explosives for civil uses”, the secretariat of which is held by UNE.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2026 and conflicting national standards shall be withdrawn at the latest by April 2026.

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

This document supersedes EN 13763-4:2003.

EN 13763-4:2025 includes the following significant technical changes with respect to EN 13763-4:2003:

- a) the document title has been changed from “Detonators and relays — Part 4: Determination of resistance to abrasion of leading wires and shock tubes” to “Detonators and detonating cord relays — Part 4: Verification of resistance to abrasion of leading wires and shock tubes”;
- b) the Introduction has been removed;
- c) the Scope has been revised to clarify the covered and not covered explosives;
- d) the normative references have been updated;
- e) the Clause “Apparatus” has been revised and enlarged;
- f) the Clause “Test pieces” is now called “Preparation of test sample” and has been revised to include the conditioning of the test pieces that is no longer part of the clause “Procedure”;
- g) the number of test pieces has been changed from 10 to 20;
- h) the Clause “Procedure” has been revised and further detailed;
- i) the Clause 8 “Expression of results” has been added;
- j) the Clause “Test report” does no longer require conformity with EN ISO/IEC 17025 and the information to be provided has been revised;
- k) the former Annex A “Range of applicability of the test method” has been removed;
- l) the former Annex B has been revised and is now Annex A “Specification of grinding steel for abrasive strips”;
- m) a new Annex B “Method for monitoring the degradation of abrasive strips” has been added;
- n) the former Annex C “Availability of abrasive strips” has been removed and its information has been added to 5.1.2 as footnote.
- o) the Annex ZA has been updated;
- p) the Bibliography has been added and lists EN ISO/IEC 17025:2017.

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This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

A list of all parts in the EN 13763 series, published under the general title *Explosives for civil uses — Detonators and detonating cord relays*, can be found on the CEN website.

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

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

1 Scope

This test method specifies a test method for the verification of the resistance to abrasion of leading wires of electric and electronic detonators as well as shock tubes of non-electric detonators, surface connectors and electronic detonators.

This document does not apply to detonating cord relays and electronic initiation systems.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 10088-2:2024, *Stainless steels — Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes*

EN 13763-1:2025, *Explosives for civil uses — Detonators and detonating cord relays — Part 1: Requirements*

EN 13857-1:2025, *Explosives for civil uses — Part 1: Vocabulary*

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