

<b>STN</b>	<b>Silnoprúdové káble s vytlačanou izoláciou a ich príslušenstvo na menovité napätia nad 36 kV (Um = 42 kV) do 150 kV (Um = 170 kV).</b>	<b>STN 34 7605</b>  34 7605
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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. 12/16

Obsahuje: HD 632 S3:2016

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STN 34 7605 z júna 2009

**124015**

English Version

**Power cables with extruded insulation and their accessories for  
rated voltages above 36 kV ( $U_m = 42$  kV)  
up to 150 kV ( $U_m = 170$  kV)**

Câbles d'énergie à isolation extrudée et leurs accessoires  
pour des tensions assignées supérieures à 36 kV  
( $U_m = 42$  kV) et jusqu'à 150 kV ( $U_m = 170$  kV)

Starkstromkabel mit extrudierter Isolierung und ihre  
Garnituren für Nennspannungen über 36 kV ( $U_m = 42$  kV)  
bis 150 kV ( $U_m = 170$  kV)

This Harmonization Document was approved by CENELEC on 2016-06-27. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document at national level.

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

This Harmonization Document exists in three official versions (English, French, German).

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**



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Void

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Void

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Void

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Void

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## European foreword

This document (HD 632 S3:2016) has been prepared by CLC/TC 20 "Electric cables".

The following dates are fixed:

- latest date by which the existence of this document has to be announced at national level (doa) 2016-12-27
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-06-27
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2019-06-27

This document supersedes HD 632 S2:2008.

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.

The major technical change with respect to HD 632 S2:2008 is the unmodified adoption of the current edition of IEC 60840 (ed.4, 2011-11) as Part 1 of this European Standard. The test sections in Part 2 have been revised and updated in accordance to the changes to Part 1 and to the sections of Part 3 to Part 11. The sections in Part 3 to Part 11 have been updated and adapted to the new Part 1 content. Generally, all references to EN 60811 have been updated to the new EN 60811 series (2012-06).

By decision of the Technical Board (D81/139 extended by D104/118 & D114/076), this HD exists only in English.

Page numbering reflects the arrangements into parts and particular sections, e.g. Page 4-C-3 is page 3 of particular Section C of Part 4.

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**HD 632 S3:2016**

**POWER CABLES WITH EXTRUDED INSULATION AND  
THEIR ACCESSORIES FOR RATED VOLTAGES  
ABOVE 36 kV ( $U_m = 42$  kV) UP TO 150 kV ( $U_m = 170$  kV)**

**PART 1: GENERAL TEST REQUIREMENTS**

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## 1 Scope

This Part 1 of HD 632 specifies test methods and requirements for power cable systems, cables alone and accessories alone, for fixed installations and for rated voltages above 36 kV ( $U_m = 42$  kV) up to and including 150 kV ( $U_m = 170$  kV).

Depending on the design and the system conditions, additional or even fewer tests or other requirements which are not described in the Part 1 can be specified in the particular sections of Parts 3 to 11.

In these parts each section is either:

- 1) A full tabulation showing how the particular section either agrees, or deviates from, each clause of Part 1; or
- 2) A reduced tabulation showing only those places where the particular section deviates from Part 1.

The requirements apply to single-core cables and to individually screened three-core cables and to their accessories for usual conditions of installation and operation, but not to special cables and their accessories, such as submarine cables, for which modifications to the standard tests may be necessary or special test conditions may need to be devised.

This standard does not cover transition joints between cables with extruded insulation and paper insulated cables.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 60228, *Conductors of insulated cables (IEC 60228)*

EN 60229:2008, *Electric cables – Tests on extruded oversheaths with a special protective function (IEC 60229:2007)*

EN 60230, *Impulse tests on cables and their accessories (IEC 60230)*

EN 60332-1-2, *Tests on electric and optical fibre cables under fire conditions – Part 1-2: Test for vertical flame propagation for a single insulated wire or cable – Procedure for 1 kW pre-mixed flame (IEC 60332-1-2)*

EN 60811 (all parts), *Electric and optical fibre cables – Test methods for non-metallic materials (IEC 60811, all parts)*

EN 60885-3, *Electrical test methods for electric cables – Part 3: Test methods for partial discharge measurements on lengths of extruded power cables (IEC 60885-3)*

HD 588.1, *High voltage test techniques – Part 1: General definitions and test requirements (IEC 60060-1)*

IEC 60183, *Guidance for the selection of high-voltage A.C. cable systems*

IEC 60287-1-1:2006, *Electric cables – Calculation of the current rating – Part 1-1: Current rating equations (100 % load factor) and calculation of losses – General*

ISO 48, *Rubber, vulcanized or thermoplastic – Determination of hardness (hardness between 10 IRHD and 100 IRHD)*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**