

SLOVENSKI STANDARD

SIST EN 61242:1997

01-november-1997

Electrical accessories - Cable reels for household and similar purposes (IEC 1242:1995, modified)

Electrical accessories - Cable reels for household and similar purposes

Elektrisches Installationsmaterial - Leitungsroller für den Hausgebrauch und ähnliche Zwecke

Petit appareillage électrique - Cordons prolongateurs enroulés sur tambour pour usages domestiques

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Ta slovenski standard je istoveten z: **EN 61242:1997**

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ICS:

29.120.99	Druga električna dodatna oprema	Other electrical accessories
55.060	Tulci. Vretena	Spools. Bobbins

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en

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EUROPEAN STANDARD

EN 61242

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 1997

ICS 97.180; 55.060

Descriptors: Electric equipment, home electrical installations, extension cords, electrical cables, classifications, marking, safety, protection against electric shocks, equipment specifications, temperature rise

English version

Electrical accessories
Cable reels for household and similar purposes
(IEC 1242:1995, modified)

Petit appareillage électrique
Cordons prolongateurs enroulés sur
tambour pour usages domestiques
(CEI 1242:1995, modifiée)

Elektrisches Installationsmaterial
Leitungsroller für den Hausgebrauch
und ähnliche Zwecke
(IEC 1242:1995, modifiziert)

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This European Standard was approved by CENELEC on 1996-12-09. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of the International Standard IEC 1242:1995, prepared by SC 23B, Plugs, socket-outlets and switches, of IEC TC 23, Electrical accessories, together with common modifications prepared by the Technical Committee CENELEC TC 23B, Switches for household and similar fixed electrical installations, was submitted to the formal vote and was approved by CENELEC as EN 61242 on 1996-12-09.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 1997-09-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1997-09-01

For products which have complied with the relevant national standard before 1997-09-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2002-09-01.

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes ZA and ZB are normative and annex ZC is informative.

Annexes ZA, ZB and ZC have been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 1242:1995 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS**1 Scope**

Replace the second paragraph by:

This standard does not apply to:

- cable reels with a detachable cable;
- cable reeling devices incorporated in appliances.

Note - Requirements for cable reeling devices incorporated in appliances are specified in EN 60335-1 and EN 60335-2-2.

Delete the note.

2 Normative references

Replace the text of clause 2 by:

Note - Normative references to international publications are listed in Annex ZA (normative).

5 Conditions for type testing**5.2 Replace** after the second paragraph:

For the tests of 20.2 three additional specimens are required.

6 Classification**6.6**

Add:

See annex ZB for Special National Conditions.

7 Marking**7.1**

Replace the 15th line by:

"Warning - Do not exceed the maximum allowable load"

Add:

See annex ZB for special national conditions and annex ZC for A-deviation.

9 Provision for earthing**9.1**

Add:

See Annex ZB for Special National Conditions.

10 Terminal and termination**10.3.8**

Replace "IEC 227 and IEC 245" by "HD 21 or HD 22".

11 Flexible cables and their connections

11.1 **Replace** "IEC 227 or IEC 245" by "HD 21 or HD 22".

Replace "designation 245 IEC 53" by "designation H05RR-F".

Replace "designation 227 IEC 52" by "designation H03VV-F or H03VVH2-F".

11.1.4 **Replace** "IEC 227 or IEC 245" by "HD 21 or HD 22"

12 Construction

12.1 **Replace** "IEC 227 or IEC 245" by "HD 21 or HD 22"

12.2 **Replace** the note by:
See annex ZB for Special National Conditions.

12.11 **Replace** the note by:
See annex ZB for Special National Conditions.

12.12 **Replace** the first sentence by:
Cut-outs shall not self-reset even at low temperature .

Replace the note by:
See annex ZB for Special National Conditions.

12.14 **Delete** in the second sentence the words "or synthetic"

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13 Components

Add the following:

Plugs and socket-outlets shall be in accordance with the national system(s) of the country where the cable reel is intended to be used.

16 Resistance to humidity

Replace in the first dashed text "for ordinary cable reels" by "cable reels not protected against harmful ingress of water"

Replace in the second dashed text "for splash-proof and jet-proof cable reels protected against splashing water and water jets" by "cable reels protected against splashing water and water jets"

19 Temperature rise in normal use

19.2 **Add** at the end of the subclause:

This test is carried out at an ambient temperature of $20\text{ °C} \pm 2\text{ °C}$.

20 Temperature rise under overload condition

Add at the end of this clause:

These tests are carried out at an ambient temperature of $20\text{ °C} \pm 2\text{ °C}$.

20.2 **Replace** the first paragraph by:

The cable reel is tested fully reeled, under the test conditions described in clause 19.

For portable cable reels the test load is that corresponding to 1,5 times the maximum rated current at rated voltage of the socket-outlet in which the plug of the cable reel may be inserted.

For fixed cable reels the test load is that corresponding to 1,5 times the rated current of the protective device in the fixed installation, at rated voltage.

21 Mechanical strength

21.2 **Replace** the note by:

See annex ZB for Special National Conditions.

Add the following new clause:

27 EMC requirements

27.1 Immunity

Cable reels are not sensitive to electronic disturbances and therefore no immunity tests are necessary.
Electronic components incorporated in cable reels, if any, shall comply with the relevant EMC requirements.

NOTE Glow lamps, e.g. neon indicators and the like, are not considered to be electronic components in this context.

27.2 Emission

Cable reels do not give rise to intolerable electromagnetic emission and therefore no emission tests are necessary.
Electronic components incorporated in cable reels, if any, shall comply with the relevant EMC requirements.

NOTE Glow lamps, e.g. neon indicators and the like, are not considered to be electronic components in this context.

Annex ZA (normative)**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 50(441)	1984	International Electrotechnical Vocabulary (IEV) Chapter 441: Switchgear, controlgear and fuses	-	-
IEC 112	1979	Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions	HD 214 S2	1980
IEC 227 (mod)	series	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	HD 21	series
IEC 245 (mod)	series	Rubber insulated cables - Rated voltages up to and including 450/750 V	HD 22	series
IEC 364 (mod)	series	Electrical installations of buildings	HD 384	series
IEC 417	1973	Graphical symbols for use on equipment - Index, survey and compilation of the single sheets	HD 243 S12 ¹⁾	1995
IEC 529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 1993
IEC 695-2-1	1991 ²⁾	Fire hazard testing Part 2: Test methods Section 1: Glow-wire test and guidance	-	-
IEC 884-1	1994	Plugs and socket-outlets for household and similar purposes Part 1: General requirements	-	-

1) HD 243 S12 includes supplements A:1974 to M:1994 to IEC 417.

2) IEC 695-2-1:1991 is superseded by IEC 695-2-1/0 to 1/3:1994, which are harmonized as EN 60695-2-1/0 to 1/3:1996.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 999-1 (mod)	1990	Connecting devices - Safety requirements for screw-type and screwless-type clamping units for electrical copper conductors Part 1: General requirements and particular requirements for conductors from 0,5 mm ² up to 35 mm ² (included)	EN 60999-1 + corr. March	1993 1997
ISO 1456	1988	Metallic coatings - Electrodeposited coatings of nickel plus chromium and of copper plus nickel plus chromium	-	-
ISO 2081	1986	Metallic coatings - Electroplated coatings of zinc on iron or steel	-	-
ISO 2093	1986	Electroplated coatings of tin - Specification and test methods	-	-

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Annex ZB (normative)**Special national conditions**

Special national condition: National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions. If it affects harmonization, it forms part of the European Standard or Harmonization Document.

For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.

<u>Clause</u>	<u>Special national condition</u>
6.6	<p>Austria, Denmark, Finland, Germany, Norway</p> <p>Cable reels not incorporating thermal cut-outs or current cut-outs are not allowed.</p>
7.1	<p>Austria</p> <p>Cable reels not protected against harmful ingress of water have to be marked with the following warning: 'For indoor use only !'</p>
9.1	<p>Denmark</p> <p>Delete the last indent.</p>
12	<p>Austria</p> <p>Additional subclause:</p> <p>Cable reels for outdoor use have to be protected against harmful ingress of water at least by a degree of protection IPX4.</p>
12.2	<p>Denmark, Portugal</p> <p>Cable reels according to this subclause are not allowed.</p> <p>Norway, Sweden</p> <p>Replace the first sentence by:</p> <p>Cable reels with accessible metal parts connected to the earthing circuit shall have the handle or the part most likely to be grasped, when moving the cable reel, of insulating material or covered by insulating material. Compliance is checked by inspection and during the tests of 9, 17 and 21.</p> <p>Add at the end of the subclause the following:</p> <p>NOTE: For other cable reels with accessible metal parts it is recommended that at least the handle should be of insulating material or covered by insulating material.</p>

12.11 Belgium, Denmark, Finland, Norway

Cable reels incorporating fuses are not allowed.

12.12 Denmark, Finland, Norway, Sweden

Replace "-10 °C ± 2 °C for approximately 8h" by "-25 °C ± 2 °C for approximately 18 h".

21.2 Denmark, Finland, Norway, Sweden

Replace "-10 °C ± 2 °C" by "-15 °C ± 2 °C".

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ANNEX ZC (Informative) A-DEVIATIONS

A-Deviation: National deviations due to regulation, the alterations of which is for the time being outside the competence of CENELEC members.

This European Standard falls under Directive 73/23/EEC.

NOTE (from CEN/CENELEC IR Part 2, 3.1.9): Where standards fall under EC Directives, it is the view of the Commission of the European Communities (OJ No C 59; 1982-03-09) that the effect of the decision of the Court of Justice in case 815/79 Cremonini/Vrankovich (European Court Reports 1980, p.3583) is that compliance with A-deviations is no longer mandatory and that the free movement of the products complying with such a standard should not be restricted except under the safeguard procedure provided for the relevant Directive.

A-deviations in an EFTA-country are valid instead of the relevant provisions of the European Standard in that country until they have been removed.

<u>Clause</u>	<u>Deviation</u>
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7.1	<p>BELGIUM (Article 10- ministerial ordinance of 16th March 1993 on cable reels provided with mobile socket-outlet or with multiple socket-outlet with or without reeling device (moniteur belge du 4.05.1993))</p>
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Cable reels not protected against harmful ingress of water shall have the following information: "Do not use in wet environment"

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NORME INTERNATIONALE INTERNATIONAL STANDARD

**CEI
IEC
1242**

Première édition
First edition
1995-02

**Petit appareillage électrique –
Cordons prolongateurs enroulés sur
tambour pour usages domestiques**

iTeh STANDARD PREVIEW

**Electrical accessories –
Cable reels for household and
similar purposes**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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X

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For price, see current catalogue*

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL ACCESSORIES – CABLE REELS FOR HOUSEHOLD AND SIMILAR PURPOSES

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.

International Standard IEC 1242 has been prepared by sub-committee 23B: Plugs, socket-outlets and switches, of IEC technical committee 23: Electrical accessories.

The text of this standard is based on the following documents:

DIS	Report on Voting
23B(CO)192	23B/432/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

In this standard, the following print types are used:

- Requirements proper: in roman type.
- *Test specifications: in italic type.*
- Explanatory matter: in smaller roman type.