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**Visokonapetostne kabske povezave z vtičem in vtičnico za medicinsko rentgensko opremo**

**(istoveten EN 60526:2004)**

High-voltage cable plug and socket connections for medical X-ray equipment

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EUROPEAN STANDARD

**EN 60526**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2004

ICS 11.040.50; 29.120.30

Supersedes HD 364 S2:1983

English version

**High-voltage cable plug and socket connections  
for medical X-ray equipment  
(IEC 60526:1978, modified)**

Raccordements par fiche et réceptacle  
des câbles haute tension  
pour équipements à rayons X  
à usage médical  
(CEI 60526:1978, modifiée)

Hochspannungskabel-Steckverbindungen  
für medizinische Röntgengeräte  
(IEC 60526:1978, modifiziert)

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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.

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**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 60526:1978, prepared by SC 62B, Diagnostic imaging equipment, of IEC TC 62, Electrical equipment in medical practice, together with common modifications prepared by the Technical Committee CENELEC TC 62, Electrical equipment in medical practice, was approved by CENELEC as HD 364 S2 on 1983-09-07.

This Harmonization Document was submitted to the formal vote for conversion into a European Standard and was approved by CENELEC as EN 60526 on 2004-07-06.

The following date was 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) 2005-07-01

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## Endorsement notice

The text of the International Standard IEC 60256:1978 was approved by CENELEC as a European Standard with agreed common modifications as given below.

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**COMMON MODIFICATIONS**  
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### 6 Statement of compliance

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At the end of the 3 list items on three-conductor assemblies, **replace** the reference to "IEC 526/1975" by "IEC 60526:1975 or IEC 60526:1978".

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NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD

CEI  
IEC  
526

Deuxième édition  
Second edition  
1978-01

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Raccordements par fiche et réceptacle des  
câbles haute tension pour équipements à rayons X  
à usage médical

iTeh STANDARD PREVIEW

High-voltage cable plug and socket connections  
for medical X-ray equipment

SIST EN 60526:2005

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HIGH-VOLTAGE  
CABLE PLUG AND SOCKET CONNECTIONS  
FOR MEDICAL X-RAY EQUIPMENT**

FOREWORD

- 1) 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.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

**iTeh STANDARD PREVIEW**

PREFACE

This standard has been prepared by Sub-Committee 62B, X-ray Equipment Operating up to 400 kV and Accessories, of IEC Technical Committee No. 62, Electrical Equipment in Medical Practice.

[SIST EN 60526:2005](#)

It forms the second edition to IEC Publication 526 (1975) [b699f7fc7-490f-8ec3-a2a7e10cc29b/sist-en-60526-2005](#)

The first edition was published in 1975 containing the requirements on three-conductor high-voltage cable plug and socket connections. It was based upon a first draft discussed at the meeting in London in 1970. As a result of the meeting held in Rockville, Maryland, in 1973, the draft, Document 62B(Central Office)13, was submitted to the National Committees for approval under the Six Months' Rule in January 1974. Sixteen countries voted explicitly in favour of publication.

A draft incorporating the additional requirements on four-conductor high-voltage cable plug and socket connections was discussed at the meeting held in Ottawa in 1976. As a result of this meeting, the draft, Document 62B(Central Office)30, was submitted to the National Committees for approval under the Six Months' Rule in December 1976.

The following countries voted explicitly in favour of publication:

|           |                            |
|-----------|----------------------------|
| Australia | Italy                      |
| Belgium   | Japan                      |
| Canada    | Netherlands                |
| China     | South Africa (Republic of) |
| Denmark   | Spain                      |
| Egypt     | Sweden                     |
| Finland   | Switzerland                |
| France    | Turkey                     |
| Germany   | United Kingdom             |

The requirements on three-conductor high-voltage cable plug and socket connections in the present standard are identical with those of the first edition.





- the receptacle socket assembly consisting of the main components:
    - mounting flange component 4 — Figure 3 (page 16);
    - thrust ring component 5 — Figure 4 (page 16);
    - socket with contacts and terminals component 6 — Figures 2 and 6 (pages 15 and 18);
- the mounting flange possibly forming part of a high potential assembly, an X-ray tube assembly or other item of equipment.

### 3. Dimensions

The dimensions of the high-voltage cable connection shall comply with those shown in Figures 1 to 4 or 3 to 6, as appropriate, and should comply with those enclosed in parentheses.

### 4. Connections

The connections from the high potential assembly and from the X-ray tube to the terminals of the receptacle socket assembly and the connections of the two cable termination plug assemblies to the cable shall be effected as shown in Tables I or II, as appropriate.

### 5. Marking

The terminals of the receptacle socket assembly shall be identified by marking with either graphical or letter symbols as given in Tables I or II and shown in Figures 2 or 6.

If the contact pins of the cable termination plug assembly are to be identified, the marking shall be in accordance with Tables I or II and with Figures 1 or 5.

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### 6. Statement of compliance

If compliance of a cable termination plug assembly and/or a receptacle socket assembly with this standard is to be stated, this shall be indicated appropriately as follows:

- three-conductor cable connection IEC 526/1975;
  - three-conductor cable termination IEC 526/1975;
  - three-conductor receptacle socket IEC 526/1975;
- or:
- four-conductor cable connection IEC 526/1978;
  - four-conductor cable termination IEC 526/1978;
  - four-conductor receptacle socket IEC 526/1978.