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Standards

Irish Standard  
I.S. EN 60974-12:2011

# Arc welding equipment -- Part 12: Coupling devices for welding cables (IEC 60974-12:2011 (EQV))

## I.S. EN 60974-12:2011

*Incorporating amendments/corrigenda issued since publication:*

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English version

**Arc welding equipment -  
Part 12: Coupling devices for welding cables  
(IEC 60974-12:2011)**

Matériel de soudage à l'arc -  
Partie 12: Dispositifs de connexion pour  
câbles de soudage  
(CEI 60974-12:2011)

Lichtbogenschweißeinrichtungen -  
Teil 12: Steckverbindungen für  
Schweißleitungen  
(IEC 60974-12:2011)

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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.

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

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## **Foreword**

The text of document (26/441/FDIS), future edition 3 of IEC 60974-12, prepared by IEC TC 26, Electric welding, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60974-12 on 2011-06-22.

This European Standard supersedes EN 60974-12:2005.

EN 60974-12:2011 includes the following significant technical changes with respect to EN 60974-12:2005:

- dimensions given in Annex A become normative;
- designation is based on the range of cross-sectional area of the welding cable intended to be connected.

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

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) | 2012-03-22 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn   | (dow) | 2014-06-22 |

In this standard, the following print types are used:

- *conformity statements: in italic type.*

Annex ZA has been added by CENELEC.

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## **Endorsement notice**

The text of the International Standard IEC 60974-12:2011 was approved by CENELEC as a European Standard without any modification.

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

The following referenced documents are indispensable for the application 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.

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 60050-151	-	International Electrotechnical Vocabulary (IEV) - Part 151: Electrical and magnetic devices	-	-
IEC 60529	-	Degrees of protection provided by enclosures - (IP Code)	-	-
IEC 60974-1	-	Arc welding equipment - Part 1: Welding power sources	EN 60974-1	-

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### **ARC WELDING EQUIPMENT –**

### **Part 12: Coupling devices for welding cables**

#### FOREWORD

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International Standard IEC 60974-12 has been prepared by IEC technical committee 26: Electric welding.

This third edition cancels and replaces the second edition published in 2005. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- dimensions given in Annex A become normative;
- designation is based on the range of cross-sectional area of the welding cable intended to be connected.



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

FDIS	Report on voting
26/441/FDIS	26/446/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.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 60974 series can be found, under the general title *Arc welding equipment*, on the IEC website.

In this standard, the following print types are used:

- *conformity statements: in italic type.*

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

## ARC WELDING EQUIPMENT –

### Part 12: Coupling devices for welding cables

#### 1 Scope

This part of IEC 60974 is applicable to coupling devices for cables used in arc welding and allied processes, designed for connection and disconnection without using tools.

This part of IEC 60974 specifies safety and performance requirements of coupling devices.

This part of IEC 60974 is not applicable to coupling devices for underwater welding.

#### 2 Normative references

The following referenced documents are indispensable for the application 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.

IEC 60050-151, *International Electrotechnical Vocabulary (IEV) – Part 151: Electrical and magnetic devices*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 60974-1, *Arc welding equipment – Part 1: Welding power sources*

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in the IEC 60050-151, the IEC 60974-1, as well as the following apply.

##### 3.1

##### **coupling device**

device connecting two welding cables together or connecting a welding cable to welding equipment

##### 3.2

##### **retaining means**

mechanical arrangement that holds the coupling device in position and prevents an unintentional withdrawal, when properly connected

##### 3.3

##### **arc striking and stabilizing voltage**

voltage superimposed on the welding circuit to initiate or maintain the arc

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