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Arc welding equipment – Part 12: Coupling devices for welding cables

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ELECTROTECHNICAL
COMMISSION

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CONTENTS

FOREWORD	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Environmental conditions	7
5 Type Tests	7
5.1 Test conditions	7
5.2 Measuring instruments	7
5.3 Test sequence	7
6 Designation	7
7 Protection against electric shock	8
7.1 Voltage rating	8
7.2 Insulation resistance	8
7.3 Dielectric strength	9
7.3.1 General requirement	9
7.3.2 Additional requirements for ARC STRIKING VOLTAGE or ARC STABILIZING VOLTAGE rating	9
7.4 Protection of live parts against unintentional contact	9
8 Thermal rating	10
8.1 Temperature rise	10
8.2 Resistance to hot objects	10
9 Mechanical requirements	11
9.1 RETAINING MEANS	11
9.2 Welding cable entry	11
9.3 Penetration of the welding cable insulation	11
9.4 Welding cable connection	11
9.5 Crush strength	12
9.6 Dimensions	12
10 Marking	12
11 Instructions for use	13
Annex A (normative) Dimensions	14
Bibliography	17
Figure 1 – Device for testing the resistance to hot objects	10
Figure A.1 – Male element	14
Figure A.2 – Female element	14
Figure A.3 – Type 1 locking pin maximum outline shape	15
Figure A.4 – Type 2 locking pin maximum outline shape	16
Figure A.5 – Type 3 locking pin maximum outline shape	16
Table 1 – Relation between COUPLING DEVICE test current and welding cables' cross- sectional area	8
Table 2 – Voltage rating of COUPLING DEVICES	8
Table 3 – Crush force	12

Table A.1 – Dimensions for Figure A.1, Figure A.2, Figure A.3, Figure A.4, and Figure A.5..... 15

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ARC WELDING EQUIPMENT –

Part 12: Coupling devices for welding cables

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

This fourth edition cancels and replaces the third edition published in 2011. This edition constitutes a technical revision.

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

- a) updated Table 1 to include 100 % duty cycle;
- b) updated Annex A to provide more detail.

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

Draft	Report on voting
26/734/FDIS	26/736/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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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 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.

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

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

IEC 60974-1:2021, *Arc welding equipment – Part 1: Welding power sources*

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Arc welding equipment –
Part 12: Coupling devices for welding cables**

**Matériel de soudage à l'arc –
Partie 12: Dispositifs de connexion pour câbles de soudage**

CONTENTS

FOREWORD	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Environmental conditions	7
5 Tests	7
5.1 Test conditions	7
5.2 Measuring instruments	7
5.3 Test sequence	7
6 Designation	7
7 Protection against electric shock	8
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9.3 Penetration of the welding cable insulation	11
9.4 Welding cable connection	11
9.5 Crush strength	11
9.6 Dimensions	12
10 Marking	12
11 Instructions for use	13
Annex A (normative) Dimensions	14
Bibliography	17
Figure 1 – Device for testing the resistance to hot objects	10
Figure A.1 – Male element	14
Figure A.2 – Female element	14
Figure A.3 – Type 1 locking pin maximum outline shape	15
Figure A.4 – Type 2 locking pin maximum outline shape	16
Figure A.5 – Type 3 locking pin maximum outline shape	16
Table 1 – Relation between COUPLING DEVICE test current and welding cables' cross- sectional area	8
Table 2 – Voltage rating of COUPLING DEVICES	8
Table 3 – Crush force	12

Table A.1 – Dimensions for Figure A.1, Figure A.2, Figure A.3, Figure A.4, and Figure A.5..... 15

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ARC WELDING EQUIPMENT –

Part 12: Coupling devices for welding cables

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

IEC 60974-1:2021, *Arc welding equipment – Part 1: Welding power sources*

SOMMAIRE

AVANT-PROPOS	20
1 Domaine d'application	22
2 Références normatives	22
3 Termes et définitions	22
4 Conditions d'environnement.....	23
5 Essais	23
5.1 Conditions d'essais	23
5.2 Instruments de mesure	23
5.3 Ordre des essais.....	23
6 Désignation	23
7 Protection contre les chocs électriques.....	24
7.1 Caractéristiques assignées de tension	24
7.2 Résistance d'isolement	24
7.3 Rigidité diélectrique	25
7.3.1 Exigence générale	25
7.3.2 Exigences supplémentaires pour les caractéristiques assignées de TENSION D'AMORÇAGE DE L'ARC ou de TENSION DE STABILISATION DE L'ARC	25
7.4 Protection des parties actives contre les contacts involontaires	25
8 Caractéristiques thermiques assignées.....	26
8.1 Echauffement.....	26
8.2 Résistance aux objets chauds.....	26
9 Exigences mécaniques	27
9.1 DISPOSITIF DE RETENUE	27
9.2 Entrée du câble de soudage	27
9.3 Pénétration de l'isolation du câble de soudage.....	27
9.4 Fixation du câble de soudage	27
9.5 Résistance à l'écrasement	28
9.6 Dimensions	28
10 Marquage	28
11 Instructions d'emploi.....	29
Annexe A (normative) Dimensions	30
Bibliographie.....	33
Figure 1 – Dispositif d'essai de résistance aux objets chauds	26
Figure A.1 – Élément mâle.....	30
Figure A.2 – Élément femelle	30
Figure A.3 – Forme d'encombrement maximal du mandrin d'arrêt de type 1	31
Figure A.4 – Forme d'encombrement maximal du mandrin d'arrêt de type 2	32
Figure A.5 – Forme d'encombrement maximal du mandrin d'arrêt de type 3	32
Tableau 1 – Rapport entre le courant d'essai du DISPOSITIF DE CONNEXION et la section des câbles de soudage	24
Tableau 2 – Caractéristiques assignées de tension pour DISPOSITIFS DE CONNEXION	24
Tableau 3 – Force d'écrasement.....	28

Tableau A.1 – Dimensions pour la Figure A.1, la Figure A.2, la Figure A.3, la Figure A.4 et la Figure A.5 31

COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

MATÉRIEL DE SOUDAGE À L'ARC –

Partie 12: Dispositifs de connexion pour câbles de soudage

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Cette quatrième édition annule et remplace la troisième édition parue en 2011. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

- a) mise à jour du Tableau 1 pour inclure le facteur de marche de 100 %;
- b) mise à jour de l'Annexe A pour fournir plus de détails.

Le texte du présent document est issu des documents suivants:

Projet	Rapport de vote
26/734/FDIS	26/736/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

La langue employée pour l'élaboration de cette Norme internationale est l'anglais.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2, il a été développé selon les Directives ISO/IEC, Partie 1 et les Directives ISO/IEC, Supplément IEC, disponibles sous www.iec.ch/members_experts/refdocs. Les principaux types de documents développés par l'IEC sont décrits plus en détail sous www.iec.ch/standardsdev/publications.

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MATÉRIEL DE SOUDAGE À L'ARC –

Partie 12: Dispositifs de connexion pour câbles de soudage

1 Domaine d'application

La présente partie de l'IEC 60974 s'applique aux DISPOSITIFS DE CONNEXION pour câbles utilisés lors du soudage et des techniques connexes conçus pour assurer les opérations de connexion et de déconnexion sans emploi d'outils.

La présente partie de l'IEC 60974 spécifie les exigences de sécurité et de performance pour les DISPOSITIFS DE CONNEXION.

La présente partie de l'IEC 60974 ne s'applique pas aux DISPOSITIFS DE CONNEXION utilisés pour le soudage sous l'eau.

2 Références normatives

Les documents suivants sont cités dans le texte de sorte qu'ils constituent, pour tout ou partie de leur contenu, des exigences du présent document. Pour les références datées, seule l'édition citée s'applique. Pour les références non datées, la dernière édition du document de référence s'applique (y compris les éventuels amendements).

IEC 60050-151, *Vocabulaire Electrotechnique International (IEV) – Partie 151: Dispositifs électriques et magnétiques*

IEC 60529, *Degrés de protection procurés par les enveloppes (Code IP)*

IEC 60974-1:2021, *Matériel de soudage à l'arc – Partie 1: Sources de courant de soudage*