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colour inside

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

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ELECTROTECHNICAL
COMMISSION

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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*

IEC 60974-12

Edition 4.0 2022-07

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



IEC 60974-12:2022-07(en-fr)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ARC WELDING EQUIPMENT –

Part 12: Coupling devices for welding cables

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COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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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:

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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

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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*