

Irish Standard I.S. EN 61210:2010

Connecting devices - Flat quickconnect terminations for electrical copper conductors - Safety requirements (IEC 61210:2010 (MOD))

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**EUROPEAN STANDARD** 

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English version

# Connecting devices Flat quick-connect terminations for electrical copper conductors Safety requirements

(IEC 61210:2010, modified)

Dispositifs de connexion -Bornes plates à connexion rapide pour conducteurs électriques en cuivre -Exigences de sécurité (CEI 61210:2010, modifiée) Verbindungsmaterial -Flachsteckverbindungen für elektrische Kupferleiter -Sicherheitsanforderungen (IEC 61210:2010, modifiziert)

This European Standard was approved by CENELEC on 2010-11-01. 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.

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

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- 2 -

## **Foreword**

The text of document 23F/200/FDIS, future edition 2 of IEC 61210, prepared by SC 23F, Connecting devices, of IEC TC 23, Electrical accessories, was submitted to the IEC-CENELEC parallel vote.

A draft amendment was prepared by the Technical Committee CENELEC SR 23F, Connecting devices and was submitted to formal vote.

The combined texts were approved by CENELEC as EN 61210 on 2010-11-01.

This European Standard supersedes EN 61210:1995.

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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) 2011-11-01

 latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2013-11-01

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

Annex ZA has been added by CENELEC.

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# I.S. EN 61210:2010

- 3 -

EN 61210:2010

# **Endorsement notice**

The text of the International Standard IEC 61210:2010 was approved by CENELEC as a European Standard with agreed common modifications as given below.

# **COMMON MODIFICATIONS**

Delete Annex D.

**Modify** Annex E as follows:

Table E1: delete the last column containing the dimensions in "inches".

- 4 -

# 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>	EN/HD	<u>Year</u>
IEC 60068-1	1988	Environmental testing - Part 1: General and guidance	EN 60068-1 <sup>1)</sup>	1994
IEC 60352-2	2006	Solderless connections - Part 2: Crimped connections - General requirements, test methods and practical guidance	EN 60352-2	2006
ISO 1456	2009	Metallic and other inorganic coatings - Electrodeposited coatings of nickel, nickel plus chromium, copper plus nickel and of copper plus nickel plus chromium	EN ISO 1456	2009
ISO 2081	2008	Metallic and other inorganic coatings - Electroplated coatings of zinc with supplementary treatments on iron or steel	EN ISO 2081	2008
ISO 2093	1986	Electroplated coatings of tin - Specification and test methods	-	-

 $<sup>^{1)}\,\</sup>mathrm{EN}\,60068\text{-}1$  includes A1 to IEC 60068-1 + corr. October 1988.

- 2 -

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# CONTENTS

FOREW	VORD	4
1 Scc	ope	6
2 Nor	rmative references	6
3 Ter	rms and definitions	7
4 Mai	in characteristics	7
5 Mai	rking and information	8
6 Cor	nstructional requirements	8
7 Ger	neral notes for tests	10
8 Тур	pe tests	11
8.1	Insertion and withdrawal force	11
8.2	· · · · · · · · · · · · · · · · · · ·	
8.3	•	
8.4	3 ,	
8.5 8.6	•	
	A (informative) Maximum permissible temperature (maximum service	13
	ature)	23
Annex E	B (informative) Force gauge for testing flat quick-connect female connectors	24
Annex (	C (informative) Female test connectors for testing with integral tabs	29
Annex I	D (informative) Tables showing approximate relationships between mm and or cross-sectional areas in mm <sup>2</sup> and AWG sizes as used in North America g to use this standard	22
	E (informative) Information relating to cross section of conductors and	32
	ions of male tabs	36
Figure '	1 – Dimensions of male tabs	18
Figure 2	2 – Dimensions of round dimple detents (see Figure 1)	19
Figure 3	3 – Dimensions of rectangular dimple detents (see Figure 1)	19
Figure 4	4 – Dimensions of hole detents (see Figure 1)	20
Figure 5	5 – Dimensions of female connectors	20
Figure 6	6 – Double-ended tab	21
Figure 7	7 – Location of thermocouples	21
Figure 8	8 – Connections for electrical tests	22
Figure I	B.1 – Force gauge fixture	24
Figure I	B.2 – Fixture adjustment	25
Figure I	B.3 – Fixture test tab centering	26
Figure I	B.4 – In-line and lateral female connectors	27
Figure I	B.5 – Fixtureing alignment	28
Figure (	C.1 – Dimensions of female connectors	29
Figure (	C.2 – Dimensions of female connectors, alternative design	30
Table 1	– Dimensions of male tabs in millimetres	14
Table 2	2 – Dimensions of female connectors	15

61210 © IEC:2010

- 3 -

Table 3 – Test sequences and sets of samples	15
Table 4 – Tolerances of test tab thickness	15
Table 5 – Insertion and withdrawal forces	16
Table 6 – Retention force	16
Table 7 – Test current for temperature rise	16
Table 8 – Test current for current loading, cyclic	16
Table 9 – Pull force for testing the crimped connection	17
Table A.1 – Maximum permissible temperature (maximum service temperature)	23
Table C.1 – Dimensions of female connectors in millimetres (see Figure C.1)	29
Table C.2 – Dimensions of female connectors in inches (see Figure C.1)	30
Table C.3 – Dimensions of alternative design female connectors in millimetres (see Figure C.2)	30
Table C.4 – Dimensions of alternative design female connectors in inches (see Figure C.2)	31
Table D.1 – Relationship between mm and inches or mm $^{ m 2}$ and AWG within the scope	32
Table D.2 Relationship between mm and inches in Subclause 4.1	32
Table D.3 – Approximate relationship between cross-sectional area in mm <sup>2</sup> and AWG sizes in Subclause 4.2	32
Table D.4 – Dimensions of male tabs in inches applicable in Subclauses 6.3 and 8.1 (equivalent with Table 1)	33
Table D.5 – Dimensions of female connectors applicable in Subclause 6.4 (equivalent with Table 2)	34
Table D.6 – Tolerances of test tab thickness applicable in Subclause 8.1 (equivalent with Table 4)	34
Table D.7 – Insertion and withdrawal forces applicable in Subclause 8.1 (equivalent with Table 5)	34
Table D.8 – Retention force applicable in Subclause 8.2 (equivalent with Table 6)	34
Table D.9 – Test current for temperature rise applicable in Subclauses 8.3 and 8.5 (equivalent with Table 7)	35
Table D.10 – Test current for current loading, cyclic applicable in Subclause 8.4 (equivalent with Table 8)	35
Table D.11 – Pull force for testing the crimped connection applicable in Subclause 8.6 (equivalent with Table 9)	35
Table E.1 – Relationships between conductors and tabs	36

**-4-**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

# CONNECTING DEVICES – FLAT QUICK-CONNECT TERMINATIONS FOR ELECTRICAL COPPER CONDUCTORS – SAFETY REQUIREMENTS

#### **FOREWORD**

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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61210 has been prepared by subcommittee 23F: Connecting devices, of IEC technical committee 23: Electrical accessories.

This second edition cancels and replaces the first edition published in 1993 and constitutes a merge between the first edition of IEC 61210 published by SC23F and IEC 60760 published in 1989 by SC48B. This second edition does not introduce major technical modifications.

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

FDIS	Report on voting
23F/200/FDIS	23F/202/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.

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- 5 -

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

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.

**-** 6 **-**

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# CONNECTING DEVICES – FLAT QUICK-CONNECT TERMINATIONS FOR ELECTRICAL COPPER CONDUCTORS – SAFETY REQUIREMENTS

## 1 Scope

This International Standard applies to non-insulated flat quick-connect terminations consisting of a male tab of size 2,8 mm, 4,8 mm, 6,3 mm or 9,5 mm with hole or dimple detents and a mating female connector for use as either an incorporated or an integrated part of an equipment or of a component, or as a separate entity. This standard establishes uniform requirements for the dimensions, performance characteristics and test program.

The connected electrical copper conductors shall be flexible or rigid stranded, having a cross-sectional area up to and including 6 mm<sup>2</sup> or rigid solid having a cross-sectional area up to and including 2,5 mm<sup>2</sup>. This standard shall not be used for connecting aluminum conductors.

The rated voltage shall not exceed 1 000 V a.c. with a frequency up to and including 1 000 Hz, and 1 500 V d.c., and having the temperature limits applicable to materials used within this standard.

- NOTE 1 This standard, where applicable, may be used for conductors made of material other than copper.
- NOTE 2 For reasons of safety, it is recommended that flat quick-connect terminations beyond the scope of this standard should not be interchangeable with those of this standard.
- NOTE 3 This standard does not apply to female connectors with positive locking means.
- NOTE 4 The flat quick-connect terminations covered by this standard are not intended to be disconnected by pulling on the cable.
- NOTE 5 Annex D provides additional information on non international units.

#### 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 60068-1:1988, Environmental testing – Part 1: General and guidance

IEC 60352-2:2006, Solderless connections – Part 2: Crimped connections – General requirements, test methods and practical guidance

ISO 1456:2009, Metallic and other inorganic coatings – Electrodeposited coatings of nickel, nickel plus chromium, copper plus nickel and of copper plus nickel plus chromium

ISO 2081:2008, Metallic and other inorganic coatings – Electroplated coatings of zinc with supplementary treatments on iron or steel

ISO 2093:1986, Electroplated coatings of tin – Specification and test methods



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