

<b>STN</b>	<b>Konektory pre elektronické zariadenia. Požiadavky na výrobok. Časť 3-120: Pravouhlé konektory. Podrobná špecifikácia pre rozoberateľné výkonové konektory s uzáverom so západkou pre jednosmerné menovité napätie 250 V a menovitý prúd 30 A.</b>	<b>STN EN 61076-3-120</b>  35 4621
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Connectors for electronic equipment - Product requirements - Part 3-120: Rectangular connectors - Detail specification for rewirable power connectors with snap locking for rated voltage of 250 V d.c. and rated current of 30 A

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/17

Obsahuje: EN 61076-3-120:2016, IEC 61076-3-120:2016

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Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2017  
Podľa zákona č. 264/1999 Z. z. o technických požiadavkách na výrobky a o posudzovaní zhody a o zmene a doplnení niektorých zákonov v znení neskorších predpisov sa slovenská technická norma a časti slovenskej technickej normy môžu rozmnožovať alebo rozširovať len so súhlasom slovenského národného normalizačného orgánu.

EUROPEAN STANDARD

**EN 61076-3-120**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2016

ICS 31.220.10

English Version

**Connectors for electronic equipment - Product requirements -  
Part 3-120: Rectangular connectors - Detail specification for  
rewirable power connectors with snap locking for rated voltage of  
250 V d.c. and rated current of 30 A  
(IEC 61076-3-120:2016)**

Connecteurs pour équipements électroniques - Exigences  
de produit - Partie 3-120: Connecteurs rectangulaires -  
Spécification particulière pour connecteurs de puissance  
démontables à encliquetage pour une tension continue  
assignée de 250 V et un courant assigné de 30 A  
(IEC 61076-3-120:2016)

Steckverbinder für elektronische Einrichtungen -  
Produktanforderungen - Teil 3-120: Rechteckige  
Steckverbinder - Bauartspezifikation für  
wiederanschließbare Leistungssteckverbinder mit  
Rastverriegelung für 250 V Bemessungsgleichspannung  
und einen Bemessungsstrom von 30 A  
(IEC 61076-3-120:2016)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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## European foreword

The text of document 48B/2498/FDIS, future edition 1 of IEC 61076-3-120, prepared by SC 48B "Electrical connectors", of IEC/TC 48 "Electrical connectors and mechanical structures for electrical and electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61076-3-120:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-06-29
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-09-29

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60352-7	NOTE	Harmonized as EN 60352-7.
IEC 60512-1-100	NOTE	Harmonized as EN 60512-1-100.
IEC 60999-2:2003	NOTE	Harmonized as EN 60999-2:2003 (not modified).
ISO 11469:2000	NOTE	Harmonized as EN ISO 11469:2000 (not modified).

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-581	2008	International Electrotechnical Vocabulary (IEV) - Part 581: Electromechanical components for electronic equipment	-	-
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60228	2004	Conductors of insulated cables	EN 60228	2005
-	-		+ corr. May	2005
IEC 60352	series	Solderless connections	EN 60352	series
IEC 60512	series	Connectors for electronic equipment - Tests and measurements	EN 60512	series
IEC 60512-1-2	2002	Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination - Test 1b: Examination of dimension and mass	EN 60512-1-2	2002
IEC 60999-1	1999	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm <sup>2</sup> up to 35 mm <sup>2</sup> (included)	EN 60999-1	2000
IEC 61076-1	2006	Connectors for electronic equipment - Product requirements - Part 1: Generic specification	EN 61076-1	2006
IEC 61076-3	2008	Connectors for electronic equipment - Product requirements - Part 3: Rectangular connectors - Sectional specification	EN 61076-3	2008

**EN 61076-3-120:2016**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61984	2008	Connectors - Safety requirements and tests	EN 61984	2009
IEC 62430	-	Environmentally conscious design for electrical and electronic products	EN 62430	-
IEC Guide 109	-	Environmental aspects - Inclusion in electrotechnical product standards	-	-



# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Connectors for electronic equipment – Product requirements –  
Part 3-120: Rectangular connectors – Detail specification for rewirable power  
connectors with snap locking for rated voltage of 250 V d.c. and rated current of  
30 A**

**Connecteurs pour équipements électroniques – Exigences de produit –  
Partie 3-120: Connecteurs rectangulaires – Spécification particulière pour  
connecteurs de puissance démontables à encliquetage pour une tension  
continue assignée de 250 V et un courant assigné de 30 A**





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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Connectors for electronic equipment – Product requirements –  
Part 3-120: Rectangular connectors – Detail specification for rewirable power  
connectors with snap locking for rated voltage of 250 V d.c. and rated current of  
30 A**

**Connecteurs pour équipements électroniques – Exigences de produit –  
Partie 3-120: Connecteurs rectangulaires – Spécification particulière pour  
connecteurs de puissance démontables à encliquetage pour une tension  
continue assignée de 250 V et un courant assigné de 30 A**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**CONNECTORS FOR ELECTRONIC EQUIPMENT –  
PRODUCT REQUIREMENTS –**
**Part 3-120: Rectangular connectors – Detail specification  
for rewirable power connectors with snap locking for rated voltage  
of 250 V d.c. and rated current of 30 A**

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International Standard IEC 61076-3-120 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

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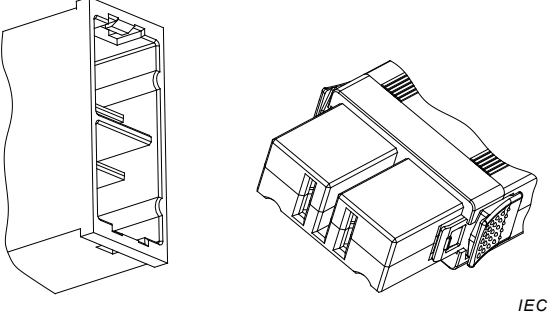
FDIS	Report on voting
48B/2498/FDIS	48B/2511/RVD

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.

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- amended.

The International Electrotechnical Commission IEC SC 48B —Electrical connectors	IEC 61076-3-120
Detail specification in accordance with IEC 61076-3	
	Rewirable power connectors with snap locking for rated voltage of 250 V d.c. and rated current of 30 A
	Fixed and free connectors, for telecommunication equipment

## INTRODUCTION

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## CONNECTORS FOR ELECTRONIC EQUIPMENT – PRODUCT REQUIREMENTS –

### Part 3-120: Rectangular connectors – Detail specification for rewirable power connectors with snap locking for rated voltage of 250 V d.c. and rated current of 30 A

#### 1 Scope

This part of IEC 61076-3 describes a 2 pole 30 A rectangular power connector with snap locking (hereinafter shortly referred to as connector), including overall dimensions, interface dimensions, technical characteristics, performance requirements and test methods.

The products covered by this detail specification are connectors without breaking capacity according to IEC 61984:2008 which are mainly for use in DC power distribution equipment in the telecommunications field, such as in outdoor telecom modules, distributed frames, etc.

#### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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IEC 60068-1, *Environmental testing – Part 1: General and guidance*

IEC 60228:2004, *Conductors of insulated cables*

IEC 60352 (all parts), *Solderless connections*

IEC 60512 (all parts), *Connectors for electronic equipment – Tests and measurements*

IEC 60512-1-2:2002, *Connectors for electronic equipment – Tests and measurements – Part 1-2: General examination*

IEC 60999-1:1999, *Connecting devices – Electrical copper conductors – Safety requirements for screw type and screwless-type clamping units – Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm<sup>2</sup> up to 35 mm<sup>2</sup> (included)*

IEC 61076-1:2006, *Connectors for electronic equipment – Part 1: Generic specification*

IEC 61076-3:2008, *Connectors for electronic equipment – Product requirements – Part 3: Rectangular connectors – Sectional specification*

IEC 61984:2008, *Connectors – Safety requirements and tests*

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