

ICS 29.120.30



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 11918.2-2025

**Plugs; fixed or portable socket-outlets and appliance inlets for
industrial purposes-Part 2: Dimensional compatibility
requirements for pin and contact-tube accessories**

工业用插头、固定式或移动式插座和器具输入插座 第2部分：带插销和插套的电
器附件的尺寸兼容性要求

(English Translation)

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Foreword

GB/T 11918 Plugs, socket-outlets and couplers for industrial purposes is planned to be divided into 4 parts.

- Part 1: General requirements;
- Part 2: Dimensional compatibility and interchangeability requirements for pin and contact - tube accessories;
- Part 3.(name to be determined);
- Part 4: Switched socket-outlets and connectors with or without interlock.

This Part is Part 2 of GB/T 11918.

This Part is drafted in accordance with the rules specified in GB/T 1.1-2009.

This Part replaces GB/T 11919-2001 Plugs, socket-outlets and couplers for industrial purposes - Part 2: Dimensional compatibility and interchangeability requirements for pin and contact-tube accessories.

Compared with GB/T 11919-2001, this Part has the following main changes.

- According to IEC 60309-2:2012, the standard name is changed from "Plugs, socket-outlets and couplers for industrial purposes - Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories" to be "Plug, socket-outlets and couplers for industrial purposes - Part 2: Dimensional compatibility and interchangeability requirements for pin and contact-tube accessories";
- The rated operational voltage in Chapter 1 is changed from 690V to 1,000V;
- Chapter 1 defines that the accessories are only intended to be installed and used by trained (electrical) persons or skilled (electrical) technicians;
- Chapter 1 extends the range applicable to electrical accessories with screwless terminals or insulation piercing terminals;
- Chapter 2 adds GB 16895.21 and GB 14048.3;
- Add relevant description of 4.1;
- Add the classification of standard IP codes as specified in GB 4208 to 5.101;
- Delete 6.1.2 of GB/T 11919-2001;
- Modify 7.2;

- Add "the indicating requirements of electrical accessories at the 8h clock position for portable thermostats with the operating voltage not more than 50V" to 7.5;
- Add "the positions of small keys or key slots of special electrical accessories with rated operational voltage not more than 50V" to 8.1;
- Rewrite Chapter 11;
- Amend Table 109 according to the level of protection;
- Change in Chapter 14 the level of protection of electrical accessories at a rated current of 63/60A and at a rated current of 125/100A;
- Modify the Table 104;
- Add "the requirements for relevant standard leaflets" in 16.101;
- Add the diagram of composition planes in standard leaflet 2-I;
- Add the diagram of composition planes in standard leaflet 2-III;
- Modify the diagram of standard leaflet 2-III a;
- Modify the diagram of standard leaflet 2-IV a;
- Add the diagram of standard leaflet 2-VIII a;
- Add the diagram of standard leaflet 2-IX a;
- Add the list of chapters needing repeated tests in Annex A.

This Part uses re-drafting method to modify and adopt IEC 60309-2:2012 "Plug, socket-outlets and couplers for industrial purposes - Part 1: Dimensional compatibility and interchangeability requirements for pin and contact-tube accessories".

Technical differences between this Part and IEC 60309-2:2012, and the causes, are as follows.

- In respect of normative references, this Part makes adjustments of technical difference to adapt to the technical requirements of China. Such adjustments are collectively reflected in Chapter 2 "Normative References". The detailed adjustments are as follows.
- Replace IEC 60617-2:1996 with GB/T 4728.2-2005 "Graphical symbols for electrical diagrams - Part 2: Symbol elements, qualifying symbols and other symbols having general application" (IEC 60617, IDT);
- Replace IEC 60364-4-41 with GB 16895.21 "Low-voltage electrical installations -Part 4-41. Protection for safety - Protection against electric shock" (GB 16895.21-2011, IEC 60364-4-41:2005, IDT) this Part makes the editorial changes as follows.
- In Chapter 1, supplement "this Part of GB/T 11918 defines technical requirements such as

the dimensional interchangeability requirements for plugs, socket-outlets and couplers for industrial purposes";

- Exchange the orders of Chapter 3 and Chapter 2 of IEC 60309-2:2012, that is, make the "Normative References" as Chapter 2 and the "Terms and Definitions" as Chapter 3;
- Move the description of the standard structure in the Introduction of IEC 60309-2 to the Foreword of this Part; and delete the Introduction;
- Make adjustment to the "list of chapters needing repeated tests" in Annex B according to the national standard GB/T 11919- 2001 that corresponds to IEC 60309-2.

This Part was proposed by China Electrical Equipment Industrial Association.

This Part shall be under the jurisdiction of National Electrical Accessory Standardization Technical Committee (SAC/TC 67).

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The previous versions replaced by this Part are as follows.

- GB/T 11919-1989, GB/T 11919-2001.

1 Scope

This clause in GB/T 11918.1-2014 is replaced as follows.

This Part of GB/T 11918 defines technical requirements of dimensional interchangeability of plugs, socket-outlets and couplers for industrial purposes with bolts and bushes.

This Part applies to plugs and socket-outlets, cable couplers and appliance couplers with a rated operating voltage not exceeding 1000 V, 500 Hz and a rated current not exceeding 125 A, primarily intended for industrial use, either indoors or outdoors.