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

GB/T 19637-2017

Replacing GB/T 19637-2005

**Electrical accessories -- Cable reels for household and similar
purposes**

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 19637-2005 "Electrical accessories for household and similar

use cable reel," and GB/T 19637-2005 phase Than the main technical changes are as follows.

- Chapter 1 specifies the scope of this standard does not apply to the product; Modify the applicable ambient temperature of the product;
- Chapter 2 adjusted some normative references;
- Modify the definition of the cable reel (see 3.3);
- Increased the definition of flexible cable, detachable flexible cable, and modified the definition of non-removable flexible cable (see 3.4, 3.4.1 and 3.4.2);
- Increased weakness, extension of the line socket (extension cord components) definition (see 3.23 and 3.24);
- Chapter 5 title of the title changed from "general conditions for type test" to "general description of the test";
- Added the "according to 6.3.2 b) Classification of the cable reel to be marked with its removable flexible cable test" (see 5.1);
- Added "test on clause 20.1, additional samples may be needed to determine the highest possible current when the weak point does not move" (See 5.2);
- Modify the classification by soft cable connection method (see 6.3);
- 6.5 added the title "GB/T 4208 described in";
- Modify the classification according to the protection against over-temperature (see 6.6);
- Removed without anti-high temperature protection function of the cable reel, thermal cut-off device and/or the current cut off the cable reel additional Logo (see 7.1);
- Modify the requirements of the relevant protection level symbols (see 7.2);
- Increasing the identification requirements of the cable reel with detachable flexible cable (see 7.3);
- Increased the installation of weak points of the cable reel identification requirements (see 7.4);
- Increasing the requirements of removable flexible cable (see 11.1);
- According to the rated current of the plug and socket of our country, cancel " $\leq 6A$. Not less than $0.75mm^2$ " in 11.1.1, Table 1 Nominal Change "0.75" to "1.0" in the column of sectional area, cancel the row or column of $0.75mm^2$ of the nominal cross-sectional area of the conductors in Table 3, Table 4 and Table 5;
- Increased the characteristics of the weak point (see 12.11);

- Modify the temperature of the first sentence of 12.12;
- Remove the synthetic elastic material (see 12.14);
- Increasing the requirements of the structure of the mobile cable reel and the cable reel to prevent overheating protection requirements (see 12.17,12.18);
- Elements added on the thermal cut-off and/or current cut-off and weak points requirements (see Chapter 13);
- Modify the requirements of the test according to the degree of protection of the product identification, and clear the condition and status of the cable reel test (see Chapter 15);
- Modify the description of the level of protection against harmful ingress of water (see Chapter 16);
- Increase the judgment of the weak point, the test environment temperature (see 19.2);
- Increasing the test method in the impossible to check the protection mode cut off action point (see 20.1);
- Increase the "internal and external wiring and other flexible cable insulation material" temperature rise (see Table 6);
- Added "IPX6" (see 23.5);
- Increased electromagnetic compatibility (EMC) requirements (see Chapter 27).

This standard uses redrafted Law Amendment uses IEC 61242:1995 "Electrical accessories for household and similar use cable reel" and its 2008 revision 1 and 2015 revision 2.

This standard IEC 61242:1995 technical differences and the reasons are as follows.

- According to China's geographical and climatic environment, the provisions of Chapter 1 cable reel applies to the ambient temperature is usually not more than 35 °C, but occasionally Use up to 40 °C place. IEC 61242:1995 The ambient temperature specified in this chapter is "usually not more than 25 °C, even Seoul will reach 35 °C. "
- On the normative references, this section made a technical difference with the adjustment to adapt to China's technical conditions, adjust the situation Concentration reflected in the second chapter "Normative references", the specific adjustments are as follows.
- Replaced IEC 60884 (all parts) with modifications GB/T 2099 (all parts) adopting international standards;
- GB/T 2900.18-2008 replaced by IEC 60050-441:1984;
- Equivalent with the international standard GB/T 4207 instead of IEC 60112:2003;

- Equivalent to the use of international standards GB/T 4208-2008 instead of IEC 60529:1989;
- Replace IEC 60245 (all parts) with GB/T 5013 (all parts) equivalent to international standards;
- Replace IEC 60227 (all parts) with GB/T 5023 (all parts) equivalent to international standards;
- Equivalent with the international standard GB/T 5465.2-2008 instead of IEC 60417;
- Equivalent to the international standard GB/T 9799-2011 instead of ISO 2081:1986;
- Replaced ISO 2093:1986 with GB/T 12599-2002 modified to adopt international standards;
- Equivalent to the use of international standards GB/T 14536.10 instead of IEC 60730-2-9;
- Replace IEC 60999 (all parts) with GB/T 17464 equivalent to the international standard.
- According to the situation of users in our country, retained GB/T 19637-2005 7.1 and paragraphs 2 and 3 on the use of safety Identification requirements.
- According to the rated current of the plug and socket of our country, the minimum nominal cross-sectional area of the flexible cable in 11.1.1 is not less than 1.0mm².
- According to GB/T 2423.4 and China's specific environmental conditions, Chapter 16 provides moisture test temperature $(40 \pm 2) ^\circ\text{C}$.

IEC 61242:1995 The provisions of this chapter damp box "air temperature should be maintained at any convenient value between $20 ^\circ\text{C} \sim 30 ^\circ\text{C}$ ($t \pm 1$) $^\circ\text{C}$ ".

This standard made the following editorial changes.

- According to the relevant provisions of GB/T 1.1, in Chapter 1 "Scope" added "This standard specifies the domestic and similar use of cable reel the classification, logo, structure, electrical performance, mechanical properties and other technical requirements";
- Remove some of IEC 61242:1995 for other countries and regions of the Notes, such as 12.2, 12.12, 21.2 Note.

This standard proposed by the China Electrical Equipment Industry Association.

This standard by the National Electrical Accessories Standardization Technical Committee (SAC/TC67) centralized.

This standard drafting unit. China Electric Apparatus Research Institute Co., Ltd., Shanghai Tianxiang Quality Technical Services Co., Ltd., Bull Group Limited Company, Zhejiang Chint Building Electric Co., Ltd., Ningbo Wei Er Electric Co., Ltd., Hangzhou Hongyan Electric Co., Ltd., Beijing breakthrough Electric Limited Company, Zhejiang Hengda Electric Co.,