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

GB 17196-1997

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

连接器件 连接铜导线用的扁形快速连接端头安全要求

(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 17196-1997 "connecting devices connected to the copper wire with flat quick connector security requirements", and GB/T 17196-1997 compared to the main technical changes are as follows.

--- Chapter 1 Note 1, the connecting wire is modified from "wire other than aluminum wire" to "wire other than copper wire";

--- Chapter 1 removed the "standard does not apply to data circuits and signal circuits with flat quick connector";

--- The second chapter removed the reference standard IEC 60760. 1989;

--- Deleted GB/T 17196-1997 Chapter 4, while the chapter order was adjusted, as follows. The original Chapter 5 to 7 Chapter, the original Chapter 6 to Chapter 4, the original Chapter 7 to Chapter 5, the original Chapter 8 to Chapter 6, the original Chapter 9 to Chapter 8;

The order of the forms has been adjusted in the order of chapters;

- Increase in the appropriate table 0.2mm², 0.34mm² corresponding to the test requirements;
- 4.1 The end of the first group by the "nominal width of the packet grouping" to "according to the nominal width of the insert and the thickness is divided into different size";
- 4.2, the priority wire cross-sectional area increased by 0.2mm², 0.34mm²;
- Remove the North American AWG wire gauge corresponding form;
- Added information appendix B;
- Increased information appendix C;
- Added information appendix D.

This standard uses the redrafted law to amend the use of IEC 61210.:2010 "connecting device connected to the copper wire flat quick connector Safety requirements. " this standard and IEC 61210.:2010 technical differences and the reasons are as follows.

--- On normative references, this standard 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.

- Equivalent to the international standard GB/T 9797-2005 replaced by ISO 1456.:2009;
- Replaced ISO 2093. 1986 with International Standard GB/T 12599-2002 modified;
- Replace IEC 60352-2.:2006 with GB/T 18290.2-2000 equivalent to the international standard.

--- In order to facilitate the test operation, 8.6 increased the wire and crimp part of the displacement of not more than 2mm requirements.

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 flat copper wire connection the main characteristics of connecting terminals, signs and information, structure, mechanical properties, electrical performance and other technical requirements ";

--- Because of China's use of the SI system, this standard deleted IEC 61210.:2010 in inch, North American AWG wire gauge phase the relevant provisions, such as IEC 61210.:2010 Note 5,4.1 Note 4.2 Note, 5.3 Note 4,6.3 Note 2,6.4 Note 8.1

Note 1 and note 3, note 8, note 8, Note 8.3, note 8.5, Note 3, note 8.6, and appendix D.

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 was drafted. Wei Kai Detection Technology Co., Ltd., Fei Li Fu Technology Co., Ltd., Hefei Midea Refrigerator Co., Ltd., Zhejiang Jiangzhengtai Construction Electric Co., Ltd., Bulls Group Co., Ltd., China Electric Apparatus Research Institute Co., Ltd., Yuehua Holdings Group Co., Ltd., Nepalese Electric (Jiaxing) Co., Ltd., Shunde District of Foshan City Huangzhong Electric Co., Ltd., Suzhou Jiantong Optoelectronics Terminal Co., Ltd., Shenzhen Li Gannian even Connector Co., Ltd.

1 Scope

This standard specifies the main features, signs and data, structure, mechanical properties, electrical properties of the flat quick connect terminal for connecting copper conductors can, test and other technical requirements. This standard developed a uniform size, performance and test plan requirements.

This standard applies to non-insulated flat quick connect terminal, this terminal consists of a hole with a micro-concave latch buckle insert and a Sleeve set of sleeve, as a device or component of the embedded components or monolithic components, or as a separate unit, the tab width of the nominal 2.8mm, 4.8mm, 6.3mm or 9.5mm.

The copper wire to which it is connected may be a soft wire or a hard stranded wire having a cross-sectional area of not more than 6 mm², or a cross-sectional area Over 2.5mm² hard single core wire. This standard does not apply to the end of the connecting aluminum wire connector.

These ends of the AC rated voltage does not exceed 1000V, the frequency does not exceed 1000Hz, or its DC rated voltage does not exceed 1500V;

The temperature limits meet the requirements of the materials used within the scope of this standard.

Note 1: If necessary, the ends of this standard may be used to connect wires made of materials other than copper.

Note 2: For safety, do not interchange non-standard flat quick connect terminals other than those in this standard with the scope of this standard.

Note 3: This standard does not apply to the sleeve with a positive locking mechanism.

Note 4: The flat quick-connect terminal within the scope of this standard is not by pulling the cable to disconnect the terminal.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2421.1-2008 Environmental testing for electric and electronic products Overview and Guidelines (IEC 60068-1. 1988, IDT) GB/T 9797-2005 Metallic coatings Nickel-chromium and copper-nickel-chromium plating (ISO 1456.:2003, IDT) GB/T 9799-2011 Metals and other inorganic coatings Steel zinc treated zinc plating (ISO 2081.:2008, IDT) GB/T 12599-2002 Metallic coatings Tin plating technical specifications and test methods (ISO 2093. 1986, MOD) GB/T 18290.2-2000 Solderless connections - Part 2. Solderless crimp connections - General requirements, test methods and guidelines for use (IEC 60352-2.:1996, IDT)

3 Terms and definitions

The following terms and definitions apply to this document.

Flat quick connect terminal flatquick-connecttermination an electrical connector consisting of a tab and a socket can be inserted and removed with or without tools.

Insert maletab

Quick connect the end of the plug with the sleeve inserted part.