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

GB/T 18290.2-2015

Replacing GB/T 18290.2-2000

**Solderless connections -- Part 2: Crimped connections --
General requirements, test methods and practical guidance**

无焊连接 第2部分：压接连接 一般要求、试验方法和使用导则

(English Translation)

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Foreword

GB/T 18290 "solderless connection" consists of the following components.

- Part 1. solderless connection about connections - General requirements, test methods and practical guidance;
- Part 2. solderless connection crimped connections - General requirements, test methods and practical guidance;
- Part 3. solderless connector solderless accessible insulation displacement connections - General requirements, test methods and guidelines;
- Part 4. solderless connection untouchable solderless insulation displacement connections - General requirements, test methods and guidelines;
- Part 5. solderless connection push-in connections - General requirements, test methods and guidelines;

--- Part 6. solderless connector insulation displacement connections - General requirements, test methods and guidelines;

--- Part 7. solderless connection spring clamp connections - General requirements, test methods and guidelines;

--- Part 8. solderless connection clamping mount connections - General requirements, test methods and practical guidance.

This section GB/T 18290 Part 2.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 18290.2-2000 "Solderless connections Part 2. Solderless crimped connections - General requirements, test methods and make with the guidelines. " Section compared with the GB/T 18290.2-2000, major changes in the following.

--- Reg No. reclassified (see Chapter 4, Chapter 5 of the 2000 edition, Chapter 6, Chapter 7, Chapter 8 and Chapter 9);

Materials --- crimp barrel requirements from a single Vickers hardness adds more strength requirements (see 4.3.1);

--- Tin - lead alloy has been replaced by tin alloy, in order to meet the RoHS directive, other coating materials, such as nickel, may also be used, as long as the card Ming adapted (see 4.3.3);

--- Increasing the recovery test item (see 5.1.4);

--- Deletion of other materials (see Table 2);

--- Change between two samples wire length is "Min 150mm" to meet regional requirements (see 5.2.4.5 and Figure 7);

--- Remove the old product size (2000 version 15.4).

This section uses the translation method is equivalent to using IEC 60352-2:2006 "Solderless connections - Part 2. crimped connections - General requirements, test Methods and practical guidance. " For ease of use, this section for the following editorial changes.

--- Remove the imperial units.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This part is proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This section is under the jurisdiction of the National electronic equipment Electromechanical components for Standardization Technical Committee (SAC/TC166).

This section is drafted. Guizhou Space Appliance Co., Ltd., Shenzhen Dinuo Wei Technology Co., Ltd., China Electronics Standardization Institute Study hospital.

Introduction

This section includes requirements, tests and practical guidance information, and give two test schedule.

--- Basic test schedule. for compliance with all the requirements in Chapter 4 of solderless crimped connections;

--- Comprehensive test schedule. for not fully comply with Chapter 4 solderless crimped connections all the requirements, for example, with a solid wire pressure Then, different materials.

IEC Guide 109.1995 to promote products to reduce the impact on the natural environment in the product life cycle. This section of the timber to allow some the material used may have a negative impact on the environment. In order to guide technically replace these materials, which will disappear in this section.

Solderless connections - Part 2. Crimp connection General requirements, test methods and practical guidance

1 Scope and purpose

GB/T 18290 apply to this part of solderless crimped connections, connect the wire strands or cross-sectional area of $0.05\text{mm}^2 \sim 10\text{mm}^2$ Diameter of $0.25\text{mm} \sim 3.6\text{mm}$ solid lines and the appropriate design to uninsulated or pre-insulated crimp barrel solderless crimped connections. This even Access to communications equipment and electronic devices using similar technology in.

In order to obtain stable under the environmental conditions of the electrical connections, except in the test program, this section also provides for the use from industrial solid Some international experience data departure.

Note: This section does not apply to coaxial cable crimping.

The purpose of this section is to determine under specified mechanical, electrical and atmospheric conditions solderless pressure applicability Joints. When connected to work A design or process is not the same, there is provided a method comparable test results.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including all amendments creators) are applicable to this document.

GB/T 2421.1-2008 Environmental testing for electric and electronic products overview and guidance (IEC 60068-1. 1988, IDT) GB/T 4210-2001 Electrotechnical terminology Electromechanical components for electronic equipment (idt IEC 60050 (581). 1978) IEC 60189-3. 1988 are PVC insulated and PVC sheathed low-frequency cables and wires - Part 3. solid or stranded conductor Equipment wire with PVC single, double, triple insulated protection (Low-frequency cables and wires with PVC insulation and PVC sheath-Part 3. Equipment wires with solid or stranded conductor, PVC insulated, in singles, pairs and triples) IEC 60512 (all parts), Connectors for electronic equipment - Tests and measurements (Connectors for electronic equipment-Tests and measurements) IEC 60512-1-100:2001 Connectors for electronic equipment - Tests and measurements - Part 1-100. General - Applicable Publications (Connectors for electronic equipment-Tests and measurements-Part 1-100. General-Applicable publications) IEC 60760. 1989 flat quick-connect terminals (Flat, quick-connect terminations) Amendments 1 (1993) (Amendment 1) ISO 6892:1998 metal material tensile test at ambient temperature (Metallic materials-Tensile testing at ambient temperature)

3 Terms and Definitions

GB/T 4210-2001, IEC 60512-1-100:2001 and defined the following terms and definitions apply to this document.

Crimp tube crimp barrel Designed to accommodate one or more wires crimping tool and crimping wire barrel.