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

**GB/T 16895.6-2014**

Replacing GB 16895.6-2000; GB/T 16895.15-2002

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**Low-voltage electrical installations -- Part 5-52: Selection and  
erection of electrical equipment -- Wiring systems  
(English Translation)**

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## Foreword

GB (GB/T ) 16895 "low-voltage electrical installations" series of national standard is divided into five parts, each part is divided into a plurality of sub-sections.

- Part 1. Fundamental principles, assessment of general characteristics and definitions;
- Part 4. Safety;
- Part 5. Selection and erection of electrical equipment;
- Part 6. Inspection;
- Part 7. Special requirements for electrical installations or locations.

This part is the "low-voltage electrical installations" Part 5. Selection and erection of electrical equipment in Part 52.

This section drafted in accordance with the rules of GB/T 1.1-2009 and GB/T 20000.2-2009 given.

This Part replaces GB 16895.6-2000 "Electrical installations of buildings - Part 5. Selection and erection of electrical equipment Chapter 52.

Wiring system "and GB/T 16895.15-2002" Electrical installations of buildings - Part 5. Selection and erection of electrical equipment - Section 523.

Wiring system carrying capacity. " This section GB/T 16895.15 content listed in GB 16895.6 of Section 523, and GB 16895.6-Compared to 2000, in addition to editorial changes, the major technical changes are as follows.

- Sub-clause 521.4 busbar trunking systems and power rail system has to change;  
Select the cable cross-section of the sub-clause 523.6 --- presence of harmonic currents have changed;
- Single core cable --- new sub-clause 523.9 with a metal sheath;
- Terms 525 main change is the maximum voltage power supply of electrical devices and user point of electrical equipment between the drop should not exceed the relevant

appendix;

--- 526 Terms and electrical connections before there is a change, adds additional terms and conditions Check electrical connections;

--- 528 increases the spacing requirements Terms underground power cables and communication cables;

--- 529 have changed in accordance with the terms of maintainability (including cleaning) Choice and installation of wiring systems.

Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 3956-2008 conductor cable (IEC 60228:2004, IDT)

--- GB 4208-2008 housing protection (IP Code) (IEC 60529:2001, IDT)

--- GB 7251.2-2006 Low-voltage switchgear and control equipment Part 2. busbar trunking systems (busways) Special Specific requirements (IEC 60439-2:2000, IDT)

--- GB/T 9978 (all parts) building components resistance test methods [ISO 834 (all parts), MOD]

--- GB/T 12706 (all parts) Rated voltage 1kV ( $U_m = 1.2kV$ ) to 35kV ( $U_m = 40.5kV$ ) extruded insulation Power cables and accessories [IEC 60502 (all parts), MOD]

--- GB/T 13033 (all parts) and rated voltage of 750V Mineral insulated cables and terminals [IEC 60702 (all section Points), IDT] Connecting devices --- GB 13140 (all parts) for household and similar purposes for low voltage circuits [IEC 60998 (all parts), IDT]

--- GB 13961-2008 supply track systems for luminaires (IEC 60570:2003, IDT)

--- GB/T 14048.7 ~ 8,18 (All Part 7) low-voltage switchgear and control equipment - Part 7. Ancillary [IEC 60947-7 (all Section 7), MOD]

--- GB 16895.2-2005 Electrical installations of buildings Part 4-42. Protection for safety Protection against thermal effects (IEC 60364-4-42:2001, IDT)

--- GB 16895.3-2004 Electrical installations of buildings - Part 5-54. Selection and erection of electrical equipment grounding configuration, security Protect conductors and protective bonding conductors (IEC 60364-5-54:2002, IDT)

--- GB/T 18379-2001 voltage electrical installations of buildings sector (idt IEC 60449. 1973)

--- GB/T 18380.11-2008 and optical fiber cables under fire conditions - Test - Part 11. single insulated electrical wire Cable vertical flame spread test test equipment (IEC 60332-1-1:2004, IDT)

--- GB/T 18380.12-2008 and optical fiber cables under fire conditions - Test - Part 12. single

insulated electrical wire Cable vertical flame spread test 1kW premixed type flame test methods (IEC 60332-1-2:2004, IDT)

--- GB/T 19215 (all parts), electrical installations cable trunking and ducting systems [IEC 61084 (all parts), IDT]

--- GB/T 20041 (all parts) Conduit systems for electrical installations [IEC 61386 (all parts), IDT]

--- GB/T 21762-2008 Cable Management Cable tray systems and cable ladder systems (IEC 61537:2006, IDT)

--- JB/T 10181 (all parts) cable ampacity [IEC 60287 (all parts), IDT]

--- JB/T 10181.3-2000 cable ampacity Part 2. Thermal resistance calculation section 1 (IEC 60287-2-1:1994, IDT)

--- JB/T 10181.5-2000 cable ampacity Part 3. sections related to the operating conditions of Section 1 reference transport Line conditions and cable selection (IEC 60287-3-1:1995, IDT) this section identical with IEC 60364-5-52:2009 "low-voltage electrical installations Part 5-52. Selection and erection of electrical equipment cloth Line System. " This part of IEC 60364-5-52:2009 compared to (3rd edition), reg number exactly the same, exactly the same technical content, but do the following editorial changes.

--- Section 520.2 of this part of the reference standard to replace the corresponding national standards IEC standards;

--- IEC Standard Appendix I for other countries to apply the standards of national note, regardless of the country, by deleting this section.

This part of the National Standardization Technical Committee of electrical building equipment (SAC/TC205) and focal points.

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