

Translated English of Chinese Standard: CQC11-462222-2011

www.ChineseStandard.net → Buy True-PDF → Auto-delivery.

Sales@ChineseStandard.net

CQC

PRODUCT SAFETY CERTIFICATION RULES

CQC11-462222-2011

Safety Certification Rules for Connectors

电连接器安全认证规则

Issued on: August 11, 2011

Implemented on: August 11, 2011

China Quality Certification Center

Table of Contents

Foreword.....	3
1. Scope of application.....	5
2. Certification mode	5
3. Certification application	5
4. Product type test	7
5. Initial factory inspection.....	9
6. Evaluation, approval and time limit of certification results	11
7. After-certification supervision	12
8. Certification certificate.....	13
9. Use of certification mark	15
10. Charge	15
11. Certification responsibility.....	16
12. Technical disputes and appeals	16

1. Scope of application

This Rules applies to the safety certification of connectors whose rated voltage is greater than 50V but not more than 1000V AC or DC, and the rated current of a single contact is not more than 125A.

For connectors with a rated voltage not exceeding 50V, this Rules can also be used as a guideline and certification basis. In this case, refer to GB/T 16935.1 (idt IEC 60664-1) to determine the electrical clearance and creepage distance. Explain it in the type test report.

This Rules can also be used as a guideline and certification basis for connectors with a single contact rated current exceeding 125A. Explain it in the type test report.

This Rules does not apply to connectors for which there are expressly applicable safety requirements.

2. Certification mode

CQC safety certification mode for connectors is: product type test + initial factory inspection + after-certification supervision.

The basic steps of certification include:

- a) Certification application.
- b) Type test.
- c) Initial factory inspection.
- d) Evaluation and approval of certification results.
- e) After-certification supervision.

After-certification supervision refers to one or a combination of three methods: follow-up inspection after certification, sample testing or inspection at the production site, and market sampling testing or inspection.

3. Certification application

3.1 Division of certification units

Apply for certification based on certification unit. In principle, the certification units are divided as follows:

- a) Connectors with the same electrical structure, the same material, the same connection method, the same electrical rating, and only the number of connector groups are different can be considered as the same certification unit.
- b) Connectors, of which the connection method is the same, the material is the same, the structure is similar, and there are different connector modules with various ratings (such as similar connector structures and installation methods; there are signal connectors, power connectors, and connector modules with different ratings), after being confirmed by the certification body and supplemented by the difference test, can be considered as the same certification unit.
- c) Connectors with breaking capacity and without breaking capacity are different certification units.
- d) Connectors with different temperature characteristics are different certified units.
- e) Connectors with different electrical structures and electrical materials are different units. If only the contact plating is different, they can be used as the same certification unit after supplementary difference test.
- f) Products from different production sites are regarded as different certification units.
- g) Products from different manufacturers are considered different certification units.

3.2 Materials submitted for certification application

3.2.1 Application materials

- a. Formal application form (print after filling in the application form online, or download a blank application form and fill in).
- b. Factory inspection questionnaire (when first applying).
- c. Product description (CQC11-462222.01-2011).

3.2.2 Proof materials

- a. Certificate of registration of applicant, manufacturer, production factory, such as business license, organization code.
- b. If the applicant is a seller or an importer, it is also necessary to submit a copy of the relevant contract between the seller and the producer, and the

Test according to the method specified in GB/T 34989-2017.

The type test shall meet the requirements of GB/T 34989-2017. If any one item fails to meet the requirements, it is determined that the certification unit does not meet the certification requirements. When some of the type test items are unqualified, the applicant is allowed to make corrections. The rectification shall be completed within the time limit specified by the certification body (calculated from the date of notification of failure of the type test). If the rectification is not completed on time, the applicant shall be deemed to have given up the application. The applicant may also terminate the application voluntarily.

4.2.3 Time limit of type test and test report

The testing agency designated by CQC will test the samples and issue a test report in the prescribed format. From the receipt of the sample and testing fee, the sample testing time is generally 30 working days. The time for rectification and reinspection due to unqualified test items is not included in the calculation.

The testing agency entrusted by CQC will test the samples and issue a test report in the prescribed format. After the certification is approved, the testing agency is responsible for sending a test report to the applicant.

4.2.4 Determination

Type test shall meet the requirements of the product standards.

If any one item does not meet the requirements of the standards, it is determined that the certification unit product does not meet the certification requirements. If part of the type test items fails, the applicant is allowed to make rectification. The rectification shall be completed within the time limit specified by the certification body (counted from the date of the notification of type test non-conformity). Failure to complete the rectification on time shall be deemed as the applicant giving up the application. The applicant can also terminate the application on its own initiative.

4.3 Requirements for critical raw materials

For critical raw materials, see CQC11-462222.01-2011 "Description of Connector Products". In order to ensure the consistency of the certified products, when the technical parameters / specifications / manufacturer / production factory of critical raw materials is changed, the certificate holder shall submit the application for change in time and send samples for test. They can only be used in certified products after approval by CQC.

requirements. Each unit applying for certification issues a certificate.

6.3 Termination of certification

When the type test fails or the factory inspection is Not-PASS, CQC makes a failure decision and terminates the certification. If it wants to continue to apply for certification after terminating certification, apply for certification again.

7. After-certification supervision

7.1 Supervision-inspection

7.1.1 Frequency of supervision-inspection

Generally, annual supervision shall be arranged within 12 months after the initial factory inspection is completed, and the interval between each annual supervision-inspection shall not exceed 12 months. CQC can adjust the timing of supervision-inspection on an annual basis according to the actual situation of product production. See Table 2 for the man-days of supervision-inspection. Increase the frequency of supervision if one of the following occurs:

- 1) The certified product has serious quality problems or the user has submitted a serious complaint, which have been verified that it is the responsibility of the certificate holder;
- 2) When CQC has sufficient reasons to question the compliance of the certified product with the certification standards;
- 3) When there is sufficient information to indicate that the conformity or consistency of the product may be affected by changes in the organization, production conditions, quality management system, etc. of the producer or production factory.

7.1.2 Contents of supervision-inspection

The method of after-certification supervision-inspection adopts the supervision-inspection of factory product quality assurance ability + consistency inspection of certified products. CQC supervises and inspects the factory according to CQC/F 001-2009 "CQC Mark Certification Factory Quality Assurance Ability Requirements". Articles 3, 4, 5, and 9 are mandatory items for each supervision-inspection, and other items are optional.

The contents of the consistency inspection of certified products is basically the same as the contents of the product consistency inspection during the initial factory inspection. At the same time, check the product quality inspection according to Table 1.

7.1.3 Conclusion of supervision-inspection

The inspection team is responsible for reporting the conclusion of the supervision-inspection. If the conclusion of the supervision-inspection is Not-PASS, the inspection team shall report directly to CQC. If there are non-conformities in the supervision-inspection, the factory shall complete the rectification within the specified period, and CQC shall take appropriate measures to verify the results of the rectification. If the rectification fails to be completed on time or is Not-Pass, the supervision-inspection will fail.

7.2 Supervision sampling inspection

When necessary, carry out the supervision sampling inspection on the certified products. Samples shall be randomly selected from the qualified products (including production lines, warehouses, and markets) produced by the factory, and samples shall be taken from each production factory (site). The sampling base shall in principle be more than 20 times the quantity of samples taken. When sampling at the end of the production line or at the market/factory sales outlets, the sampling base may not be considered. If no samples can be taken on site, re-sampling will be arranged within 20 days. If still no samples can be taken, the relevant certificate will be suspended. The samples taken shall be mailed/delivered to the designated testing agency within 15 days. The designated testing agency shall complete the inspection within 20 working days (counted from the receipt of the samples and the testing costs), and report the inspection conclusion to the certification body. The test items specified in the standards used for type test can be used as items for supervision sampling inspection. The specific inspection items are in accordance with the requirements of the supervision sampling inspection plan formulated by CQC.

7.3 Evaluation of results

CQC organizes a comprehensive evaluation of conclusion of supervision-inspection and conclusion of supervision-sampling inspection. If the evaluation is qualified, the certification certificate will continue to be valid. If the supervision-inspection fails or the supervision-test fails, the annual supervision-inspection is determined as unqualified and shall be implemented in accordance with the provisions of 8.3.

8. Certification certificate

8.1 Maintenance of certification certificate

8.1.1 Validity of certificate

The certification certificate of the products covered by this Rules does not set

the requirements of Clause 4.1 of this Rules.

8.3 Suspension, resumption, cancellation and withdrawal of certification certificate

The use of certificates shall comply with the requirements of the related certificate management regulations of CQC. When the certificate holder violates the relevant provisions of the certification or the certified product fails to meet the certification requirements, CQC will suspend, cancel and withdraw the certification certificate accordingly, and announce the results. Certificate holders can apply to CQC to suspend or cancel their certification certificates.

During the suspension of the certificate, if the certificate holder needs to resume the certification certificate, he shall apply to CQC for resumption within the specified suspension period, and CQC will resume it in accordance with relevant regulations. Otherwise, CQC will cancel or withdraw the suspended certification.

9. Use of certification mark

9.1 Mark style permitted to use

The certified products are allowed to use the following certification mark:



If the certified product needs to use the certification mark of 10mm and smaller, it is allowed to use the deformed mark (**CQC** or ).

9.2 Application of certification mark

If the mark is applied, the certificate holder shall use the certification mark in accordance with the provisions of "CQC Mark Management Measures". The certification mark can be affixed on the obvious position of the certified product body or on the smallest package and instruction manual.

10. Charge

Certification fees shall be charged in accordance with relevant CQC regulations.

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 2 websites:

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

----- The End -----