# 旭程电子（深圳）有限公司

XC Electronics（ShenZhen）Corp.,Ltd.

选型参数表

**Table of selection parameters**

| 厂家型号 | 安规认证 |
| --- | --- |
| 10C/gPV/25A/500V/690V/1000V | |
| | |
| | |
| | |
| | |

1. 适用范围Scope

本规格书适用于本公司生产的10C 系列带“ ”商标的低压熔断器（环保产品）。

This specification applies to the low-voltage fuses (Green Product) of the 10C series, bearing the " " trademark and manufactured by our company.

2. 相关标准及认证情况Applicable Standards & Approved Details

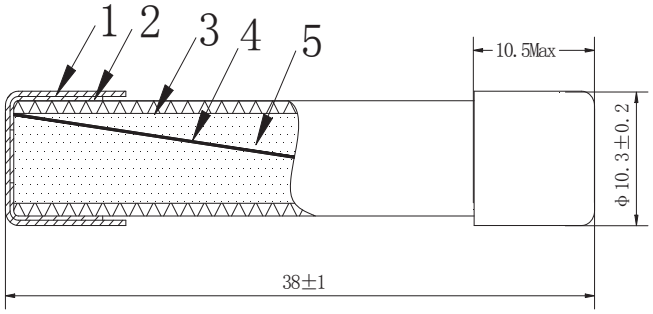
2.1 10C 系列产品适用的相关标准是 UL 248-13， IEC 60269， GB 13539。

Applicable standards for 10C series are UL 248-13, IEC 60269 and GB 13539.

2.2 认证情况 Approved Details

| 额定电压<br>Rated Voltage | 认证范围<br>Approved Range | 证书编号<br>Certification number | 获证种类<br>Approved Type |
|---|---|---|---|
| 500V AC | 500mA～32A | UL： E493566<br>TUV：R：506088420001<br>CCC：2024010308677632 | UL： Recognized<br>TUV：Recognized |
| 690V AC | | | |
| 1000V AC | | | |
| 1000V DC | | | |
| 1000V AC | 35A～40A | TUV：R：506088420001<br>CCC：2024010308677632 | |
| 1000V DC | | | |

3. 结构尺寸图Construction Figure & Dimension (mm)




| 编号No. | 名称Part | 材料Material |
|---|---|---|
| 1 | 外帽Outside Cap | 黄铜镀银Silver Plated Brass |
| 2 | 内帽Inner Cap | 黄铜镀镍Nickel Plated Brass |
| 3 | 管体Tube | 陶瓷Ceramic |
| 4 | 可熔体<br>Fusible Element | 金属丝或金属片<br>Metal Wire or Metal Sheet |
| 5 | 消弧剂Arc extinguishing agent | 石英砂<br>Quartz Sand |

4.电气特性Electrical Performances

4.1 测试条件 Test Conditions

所有特性测试，在环境温度 25℃±5℃条件下进行。

All electrical tests are conducted at ambient temperature of 25±5℃.

4.2负载能力和温度上升测试Current-Carrying Capacity and Temperature Rise Test

当熔断体通以额定电流时，在4小时内电路不应断开，保险丝不被电流熔化，管体不破裂。在达到热

量平衡后，测量保险丝表面的温度，熔断体表面的温度上升必须等于或低于130℃。注：温度上升=保险丝表面的温度－环境温度。

When a fuse is carrying rated current for continuing 4 hours and more, and the circuit shall not be opened, while the fuse is carrying this current, no open circuit, melt fusible element, and ruptured tube shall occur in any manner during this test. Measure the temperature of the surface of the fuse under the rated current, after thermal equilibrium is reached, the temperature rise on the surface of each fuse shall be 130℃ or less. Note: Temp. Rise = fuse temperature.－ room temperature.

4.3熔化热能值,仅供参考（Nominal Melting, $I^2T$, For reference only)

| 额定电流Rated Current | Nominal Melting ，$I^2T$值（$A^2S$） |
|---|---|
| 25A | 374 |

4.4当熔断体通以下表规定的电流时，其熔断时间必须符合下表的要求，且铜帽不能飞脱、管体不应破裂、损坏。

When the current in the following table is passing the fuse, its opening time must be in accordance with the requirements in the following table, that is, the pre-arcing time. Moreover, neither damages of the fuse-tube nor shattering of the cap shall occur.

| 熔断电流% of Rated Current | 熔断时间Open Time |
|---|---|
| 100% | 4Hour Min |
| 400% | ≥10ms<br>≤10s |
| 1000% | ≤30ms |

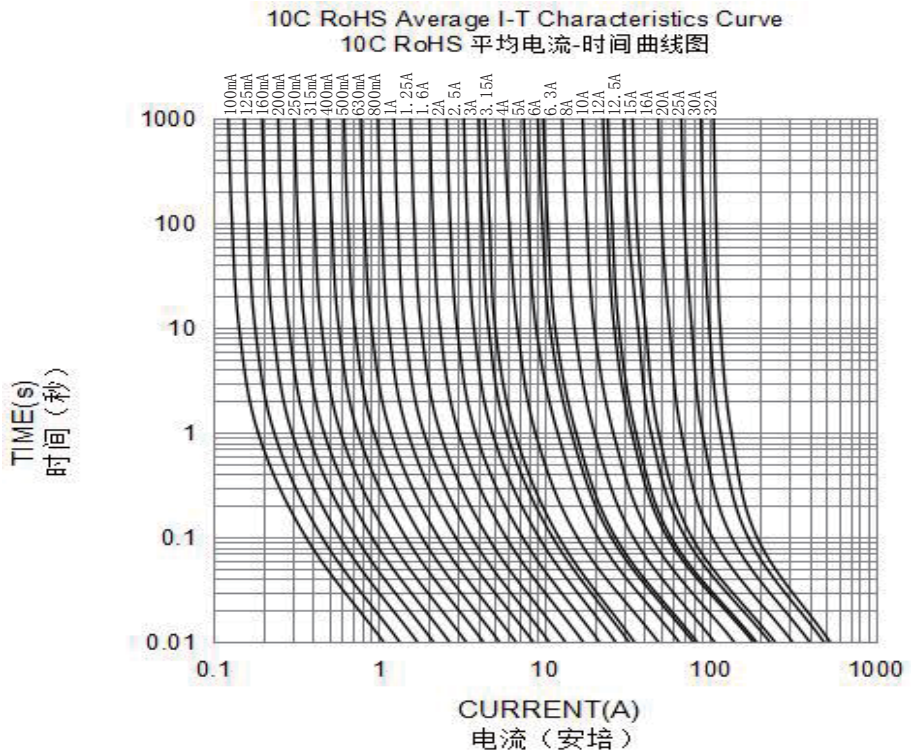
4.5分断能力Breaking Capacity

熔断体的分断能力应能达到下表规定的相应的各种安全认证的分断能力要求。保险丝分断电路后，保险丝管不应破裂、铜帽飞脱、且铜帽两端的绝缘电阻不小于0.1MΩ。

The interrupting capacity should reach the interrupting rated current given in the following table. And after this test, there should be no damage of the fuse-tube or shattering of the caps. After this test, the insulation resistance between the end caps shall be not less than 0.1MΩ.

| 额定电压<br>Rated Voltage | 额定电流<br>Rated Current | 分断电流<br>Breaking Capacity |
|---|---|---|
| 1000V DC | 100mA-40A | 50KA |
| 500V AC | | 150KA |
| 690V AC | | 80KA |
| 1000V AC | | 50KA |

4.6平均时间电流特性曲线图（仅供参考）The Average I-T Characteristics Curve (For Reference Only.)。




5.标志Marking

5.1保险丝上的标志应易于看清。

The relevant markings shall be marked on the caps of the fuse and shall be easily visible.

5.2每个保险丝应标有下列标记：

The markings for every fuse shall be prescribed as below according to the types:

5.2.1注册商标Trade Mark:

5.2.2产品型号Type code:10C

5.2.3分断范围和实用类别Breaking range and utilization category: aR

5.2.4额定电流Rated current

5.2.5额定电压Rated Voltage

5.5.6分断能力Breaking capacity

5.5.7安全认证标志Safety approval logo:

5.5.8 熔断器和整流器的组合标志A Combination mark of fuse and rectifier:

6.使用和储存条件

6.1温度Temperature:-40~+125℃

6.2相对湿度Relative humidity：相对湿度在温度最高为40℃时不超过50%。在较低的温度下可以有相对较高的湿度，如在温度20℃时，最高湿度可以达到90%。

The air is clean and its relative humidity does not exceed 50% at the maximum temperature of 40℃. Higher relative humidity is permitted at lower temperatures, for example, 90% at 20℃.

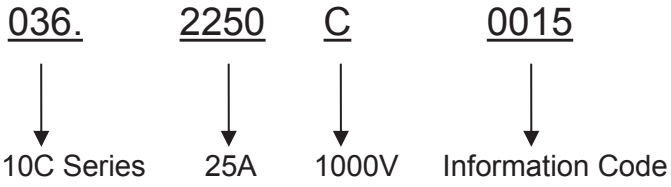
6.3储存时间Storage time：1年One year.

7. 包装Packaging

7.1 60PCS/盒、300PCS/盒、1800PCS/箱，仅供参考，以实际为准。

60PCS each box, 300PCS each box, 1800PCS each external carton, for reference only, the actual product may difference.

7.2料号和释义Part code and description




7.3所有产品的包装应能达到防潮、抗震的作用，以防止在运输和储存过程中产品受潮和损坏。
Packing should meet the requirements of anti-moisture and anti-shaking so that the products will not absorb moisture and be damaged during transportation and storage.

*Note: We are enhancing our systems and you may notice duplicate entries/missing/outdated data. During this interim period, please contact our Customer Service at https://www.ul.com/about/locations.*

# Special-purpose Fuses Certified for Canada - Component

**COMPANY**
**XC ELECTRONICS (SHENZHEN) CORP LTD**
1701, Bldg 1, Innovation Industrial Park
No. 1 Danqing RD
Jinsha, Kengzi
Pingshan DIST
SHENZHEN, Guangdong 518122 China

**E493566**

Marking: Company name model designation, and the Recognized Component Mark for Canada
Note: For additional marking information, refer to the Guide Information Page

*View model for additional information*

Model(s): *21H* Ampere rating 10 - 500A, voltage rating 1000Vac or less and 1000Vdc or less.

**Ampere rating 10 - 100A, voltage rating 1000Vac or less and 1000Vdc or less.,** Model(s): *17C*

**Ampere rating 10 - 250A, voltage rating 1000Vac or less and 1000Vdc or less.,** Model(s): *22C*

**Semiconductor Fuse,** Model(s): *10C* Ampere rating 0.1-100A, voltage rating 1000 Vac, 1000 Vdc or less,

**Special purpose fuses, ampere rating 1-45A, voltage rating 250 Vac, 125Vdc or less.,** Model(s): *9C*

**Special purpose fuses, ampere rating 1-63 A, voltage rating 1000 Vac, 1000 Vdc or less. 64A~150A, voltage rating 500 Vac, 500 Vdc or less.,** Model(s): *14C*

**Special purpose fuses, ampere rating 100-500 A, voltage rating 1000 Vac, 1000 Vdc or less.,** Model(s): *38C*

**Special purpose fuses, ampere rating 100-800 A, voltage rating 1250 Vac, 1000 Vdc or less.,** Model(s): *50H*

Last Updated on 2026-06-03

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2026 UL LLC."

*Note: We are enhancing our systems and you may notice duplicate entries/missing/outdated data. During this interim period, please contact our Customer Service at https://www.ul.com/about/locations.*

# Special-purpose Fuses - Component

**COMPANY**
**XC ELECTRONICS (SHENZHEN) CORP LTD**
1701, Bldg 1, Innovation Industrial Park
No. 1 Danqing RD
Jinsha, Kengzi
Pingshan DIST
SHENZHEN, Guangdong 518122 China

**E493566**

Marking: Company name and model designation.
Note: For additional marking information, refer to the Guide Information Page

*View model for additional information*

Model(s): *21H* Ampere rating 10 - 500A, voltage rating 1000Vac or less and 1000Vdc or less.

**Ampere rating 10 - 100A, voltage rating 1000Vac or less and 1000Vdc or less.,** Model(s): *17C*

**Ampere rating 10 - 250A, voltage rating 1000Vac or less and 1000Vdc or less.,** Model(s): *22C*

**Semiconductor Fuse,** Model(s): *10C* Ampere rating 0.1-100A, voltage rating 1000 Vac, 1000 Vdc or less,

**Special purpose fuses, ampere rating 1-45A, voltage rating 250 Vac, 125Vdc or less.,** Model(s): *9C*

**Special purpose fuses, ampere rating 1-63 A, voltage rating 1000 Vac, 1000 Vdc or less. 64A~150A, voltage rating 500 Vac, 500 Vdc or less.,** Model(s): *14C*

**Special purpose fuses, ampere rating 100-500 A, voltage rating 1000 Vac, 1000 Vdc or less.,** Model(s): *38C*

**Special purpose fuses, ampere rating 100-800 A, voltage rating 1250 Vac, 1000 Vdc or less.,** Model(s): *50H*

Last Updated on 2026-06-03

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2026 UL LLC."

# 中国国家强制性产品认证证书

**证书编号：** 2024010308677632

**认证委托人名称及地址**

旭程电子（深圳）有限公司

深圳市坪山区坑梓街道金沙社区丹青路1号创新智造产业园1栋1701

**生产者名称及地址**

旭程电子（深圳）有限公司

深圳市坪山区坑梓街道金沙社区丹青路1号创新智造产业园1栋1701

**生产企业名称及地址**

惠州市东力科技有限公司

惠州市惠东县大岭街道惠东产业转移工业园

**产品名称和系列、型号、规格**

半导体设备保护用熔断体

10C； Un：AC/DC1000V； In：500mA，630mA，800mA，1A，1.25A，1.6A，2A，2.5A，3A，3.15A，3.5A，4A，5A，6A，6.3A，7A，8A，10A，12A，15A，16A，20A，25A，30A，32A，35A，40A； 额定分断能力I1：50kA； 分断范围和使用类别：aR。

**产品标准和技术要求**

GB/T 13539.4-2016

上述产品符合《强制性产品认证实施规则 低压电器 低压元器件》（CNCA-C03-02:2024）的要求，特发此证。

**发证日期：** 2025年11月27日 **有效期至：** 2029年08月21日

本证书为变更证书，证书首次颁发日期：2024年08月22日

证书信息和有效性可扫描下方二维码或登录发证机构网站查验，也可在认监委网站（www.cnca.gov.cn）查询。

签发：谢肇煦

中国质量认证中心

CHINA QUALITY CERTIFICATION CENTRE

中国质量认证中心有限公司

本翻译文件不具有法律效力，
不得单独使用
This translated document
does not have legal validity and
cannot be used in isolation

# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

**CERTIFICATE NO.:** 2024010308677632

**NAME AND ADDRESS OF THE APPLICANT**

XC Electronics (Shenzhen)Corp.,Ltd
1701,Bldg 1, Innovation Industrial Park, No. 1 Danqing RD, Jinsha, Kengzi, Pingshan DIST, Shenzhen, Guangdong 518122 China

**NAME AND ADDRESS OF THE MANUFACTURER**

XC Electronics (Shenzhen)Corp.,Ltd
1701,Bldg 1, Innovation Industrial Park, No. 1 Danqing RD, Jinsha, Kengzi, Pingshan DIST, Shenzhen, Guangdong 518122 China

**NAME AND LOCATION OF THE FACTORY**

Huizhou Dongli Technology Co., Ltd
Huidong industrial park, Daling, Huidong, Huizhou, Guangdong 516300 China

**PRODUCT NAME,MODEL AND SPECIFICATION**

Fuse-links for the protection of semiconductor devices

10C; Un: AC/DC1000V; In: 500mA, 630mA, 800mA, 1A, 1.25A, 1.6A, 2A, 2.5A, 3A, 3.15A, 3.5A, 4A, 5A, 6A, 6.3A, 7A, 8A, 10A, 12A, 15A, 16A, 20A, 25A, 30A, 32A, 35A, 40A; Rated breaking capacity I1:50KA; Breaking range and usage category: aR

**STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS**

GB/T 13539.4-2016

This is to certify that the above mentioned product(s) complies with the requirements of implementation rules for compulsory certification(REFNO. CNCA-C03-02:2024).

**Valid from:** Nov.27,2025 **Valid until:** Aug.21,2029

Date of original issued: Aug.22,2024

The certificate information and validity could be checked by scanning the QR code below or logging in to the website of the issuing authority, or on the website of the CNCA (www.cnca.gov.cn).

**SIGNATURE:** 谢肇煦

中国质量认证中心
CHINA QUALITY CERTIFICATION CENTRE

中国质量认证中心有限公司 1101061026946

CHINA QUALITY CERTIFICATION CENTRE CO., LTD.

# Zertifikat *Certificate*

**Zertifikatsnummer** *Certificate No.:*
R 50608842 0001

**Berichtsnummer** *Report No.:*
CN23RLKK 001

**Genehmigungsinhaber** *License Holder:*
XC Electronics (Shenzhen)
Corp. Ltd.
Building 11
Jinyuan Industrial Zone
He'ao Henggang Town
Shenzhen
518115 Guangdong
P.R. China

**Fertigungsstätte** *Manufacturing Site:*
XC Electronics (Shenzhen)
Corp. Ltd.
Building 11
Jinyuan Industrial Zone
He'ao Henggang Town
Shenzhen
518115 Guangdong
P.R. China

**Prüfzeichen** *Test Mark:*

TÜVRheinland® CERTIFIED
Type Approved
Safety
Regular Production
Surveillance
www.tuv.com
ID 1111277315

**Geprüft nach** *Tested according to:*
EN 60269-1:2007+A1+A2
EN 60269-4:2009+A1+A2

**Geräteidentifikation**
*Product Identification*

**Produkt:** Fuse Link
*Product:* (Low-voltage fuses)

**Modell:** Modelle sind auf nächste(r) Seite(n) gelistet
*Type:* *Type designation(s) are listed on the next page(s)*

**Technische Daten:** *Technical Data:*

```
Rated Voltage              : AC/DC 1000V
Rated Current (In)         : 500mA, 630mA, 800mA, 1A, 1.25A, 1.6A, 2A,
                             2.5A, 3A, 3.15A, 3.5A, 4A, 5A, 6A, 6.3A, 7A,
                             8A, 10A, 12A, 15A, 16A, 20A, 25A, 30A, 32A,
                             35A, 40A
Rated Breaking Capacity    : 50kA
Minimum Breaking Capacity: 5In
Other Technical Data is listed on the next page(s)
```

**Gültig ab:** 2024-03-15
*Valid from:*

**Ausstellungsdatum:** 2024-03-15
*Date of issue:*

**Zertifizierungsstelle:**
*Certification body:*

TÜV Rheinland LGA Products GmbH TÜVRheinland Zertifizierungsstelle

Audrey Wang

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
*This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.*

**TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg**
http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935

© TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval.

# Zertifikat *Certificate*

**Zertifikatsnummer** *Certificate No.:*
R 50608842 0001

**Berichtsnummer** *Report No.:*
CN23RLKK 001

**Produkt** *Product:* Fuse Link
(Low-voltage fuses)

**Modell** *Type:* **Bezeichnung** *Designation:*

Type designation : 10C

Trademark : XC(logo)
Rated Power Dissipation : ≤ 10W at 0.5In, ≤ 50W at In
Dimensions or Size : 10x38
Arc Voltage Limits : 3500V (peak value)
Breaking range and Utilization category : aR

ANLAGE (Appendix): 1

TÜV Rheinland LGA Products GmbH
TÜVRheinland
Zertifizierungsstelle

© TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval.

# Zertifikat *Certificate*

**Zertifikatsnummer** *Certificate No.:*
R 50608842 0002

**Berichtsnummer** *Report No.:*
CN23RLKK 002

**Genehmigungsinhaber** *License Holder:*
XC Electronics (Shenzhen) Corp.,Ltd
1701,Bldg 1, Innovation Industrial
Park, No. 1 Danqing RD,
Jinsha, Kengzi, Pingshan DIST,
Shenzhen
518122 Guangdong
P.R. China

**Fertigungsstätte** *Manufacturing Site:*
Huizhou Dongli Technology Co., Ltd
Huidong Industrial Park,
Daling, Huidong,
Huizhou,
516300 Guangdong
P.R. China

**Prüfzeichen** *Test Mark:*

TÜVRheinland® CERTIFIED
Type Approved
Safety
Regular Production
Surveillance
www.tuv.com
ID 1111277315

**Geprüft nach** *Tested according to:*
EN 60269-1:2007+A1+A2
EN 60269-4:2009+A1+A2
IEC 60269-1:2006+A1+A2
IEC 60269-4:2009+A1+A2

**Geräteidentifikation**
*Product Identification*

| | |
|---|---|
| **Produkt:** *Product:* | Fuse Link (Low-voltage fuses) |
| **Modell:** *Type:* | Modelle sind auf nächste(r) Seite(n) gelistet *Type designation(s) are listed on the next page(s)* |
| **Technische Daten:** *Technical Data:* | Technische Daten auf nächste(r) Seite(n) gelistet Technical Data(s) are listed on the next page(s) |
| **Gültig ab:** *Valid from:* | 2026-04-22 |
| **Ausstellungsdatum:** *Date of issue:* | 2026-04-22 |

**Zertifizierungsstelle:**
*Certification body:*

Vivian Zhang

TÜV Rheinland LGA Products GmbH TÜVRheinland® Zertifizierungsstelle

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
*This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.*

**TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg**
http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935

© TÜV, TUEV and TUV are registered trademarks . Utilisatio n and application requires prior approval.

# Zertifikat *Certificate*

**Zertifikatsnummer** *Certificate No.:*
R 50608842 0002

**Berichtsnummer** *Report No.:*
CN23RLKK 002

**Produkt** *Product:* Fuse Link
(Low-voltage fuses)

**Modell** *Type:* **Bezeichnung** *Designation:*
as page 0001

Change

| | |
|---|---|
| Test requirement | : see above |
| Address of the license holder | : see above |
| Name of the factory | : see above |
| Address of the factory | : see above |

TÜV Rheinland LGA Products GmbH
TÜVRheinland
Zertifizierungsstelle

© TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval.