



Product Service

(1) **EU-Type Examination Certificate**

(2) Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:



**TPS 18 ATEX 102111 0003 X Rev. 01**

(4) Equipment or Protective System: Outdoor / indoor non-armoured cable glands

Type: A2F series

(5) Manufacturer: Shimada Electric Co., Ltd.

(6) Address: 2-29-6, Nakaikegami Ota-ku, Tokyo, 146-0081, Japan

(7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) TÜV SÜD Product Service GmbH, Notified Body no. 0123, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports with no. 70.520.22.011.03.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018 EN 60079-1:2014**

**EN IEC 60079-7:2015+A1:2018 EN 60079-31:2014**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

**II 2G Ex db eb IIC Gb**  
**II 2D Ex tb IIIC Db**

Certification Body,

München, 22.08.2022

Ing. Kristof De Gersem, MSc.

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Certificates without signature shall not be valid. The Certificates may only be circulated in full including its schedule(s). Extracts or alterations are subject to approval by TÜV SÜD Product Service GmbH. In case of dispute, the German text shall prevail. The document is administrated under the following number: EX5A 102111 0003 Rev. 01

Das Dokument ist Eigentum der TÜV SÜD Product Service GmbH

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## Schedule

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**EU-Type Examination Certificate no.**  
**TPS 18 ATEX 102111 0003 X Rev. 01**



### Certificate History

Revision:	Description:	Report no.:	Issue Date:
Rev. 00	First issue.	70.520.18.131.05	23.11.2018
Rev. 01	Update the standards to the latest harmonized EU standards.  Detailed the model designation.  Update Special conditions for safe use.	70.520.22.011.03	22.08.2022

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### Description of equipment:

The type A2F are non-armoured cable glands, can be outdoor and indoor used. It consists of gland body, inner sealing packing, packing gland and outer sealing nut. The cable gland can be made of brass material and stainless-steel material. The inner sealing packing and outer sealing packing are made of CR material or silicone rubber material.

Metric (M) and NPT thread types are used for explosion protection type "db", "eb" and "tb".

See the user instructions for further details.

### Model designation:

A2F / N 2 A \*\*\*  
 1 2 3 4 5

- 1: Cable gland type
- 2: Material of body

- N: Brass
- S: Stainless Steel (SUS304)
- U: Stainless Steel (SUS316)
- L: Stainless Steel (SUS316L)

### 3: Material of sealing

- 2: PORYCHLOROPRENE RUBBER (Standard Seal)
- 3: SILICONE RUBBER (Standard Seal )
- 4: PORYCHLOROPRENE RUBBER (Alternative Seal )
- 7: SILICONE RUBBER ( Alternative Seal )

### 4: Size

- |                              |                              |
|------------------------------|------------------------------|
| R: M16x1.5, M20x1.5, 1/2 NPT | Q: M16x1.5, M20x1.5, 1/2 NPT |
| A: M20x1.5, 1/2 NPT          | B: M25x1.5, 3/4 NPT          |
| C: M32x1.5, 1 NPT            | D: M40x1.5, 1-1/4 NPT        |
| E: M50x1.5, 1-1/2 NPT, 2 NPT | F: M63x1.5, 2-1/2 NPT        |
| G: M75x1.5, 3 NPT            |                              |

- 5: Entry Thread Size: -Metrics threads  
 -NPT threads

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**Schedule**  
**EU-Type Examination Certificate no.**  
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Model difference:

See model designation.

Technical data:

Metric thread size	M16x1.5, M20x1.5, M25x1.5, M32x1.5, M40x1.5, M50x1.5, M63x1.5, M75x1.5
NPT thread	1/2 NPT, 3/4 NPT, 1 NPT, 1-1/4 NPT, 1-1/2 NPT, 2 NPT, 2-1/2 NPT, 3 NPT
Service temperature (Ts)	-20°C to +80°C (CR sealing material) -60°C to +80°C (Silicone sealing material)
Degree of protection by enclosure	IP66 (tested according to EN/IEC 60079-0)

Warning label:

N/A

Installation instruction:

See installation instructions provided by the manufacturer and part of this certification.

See also (17) Special conditions for safe use.

(16) Test report(s): 70.520.22.011.03

Routine tests:

N/A

Document List:

File no.:	Description:	Pages:	Rev:	Date:
CG60651	Outdoor/indoor wire armoured cable glands	1	4	2022-06-22
CG60649-1	Inner Sealing Ring	1	1	2022-06-22
CG60649-3	Gland Body	1	0	2018-11-06
CG60649-5	Outer Sealing Nut	1	0	2018-11-06
CG60651-1	Packing Gland	1	0	2018-11-06
CG60649-8	Laser Marking	1	1	2019-10-16
TS20144	User Manual	9	2	2022-05-19
A2F	EU Declaration of Conformity (draft version)	2	01	2022-06-29

A copy of the full documentation is kept confidentially at TÜV SÜD.



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Special conditions for safe use:

1. The cable glands shall be installed according to the instruction manual provided by the manufacturer.
2. The cable glands shall only be used for fixed installation. Clamping tests are carried out with values reduced to 25%. Users shall provide additional clamping of the cable to ensure that pulling is not transmitted to the terminations.
3. The service temperature of cable glands with CR sealing material is -20°C to +80°C.
4. The service temperature of cable glands with Silicone sealing material is -60°C to +80°C.

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Essential health and safety requirements:

Assured by compliance with standards set out in (9).