



(1) **EU-TYPE EXAMINATION CERTIFICATE**
(Translation)

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

(3) EU-Type Examination Certificate Number:

PTB 18 ATEX 1001X

Issue: 00

(4) Product: Cable gland type LevelEx Lex *****

(5) Manufacturer: PFLITSCH GmbH & Co. KG

(6) Address: Ernst-Pflitsch-Straße 1, 42499 Hückeswagen, Germany

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the 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 Test Report PTB Ex 18-17169.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-7:2015, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of 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 in accordance to the Directive 2014/34/EU. 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 2 G Ex db eb IIC Gb**
 **II 1 D Ex ta IIIC Da**

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, April 16, 2018


Dr.-Ing. D. Markus
Direktor und Professor



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EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

(13)

SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 18 ATEX 1001X, Issue: 00**

(15) Description of Product

The cable gland type LevelEx Lex ***** made of brass, brass nickel-plated or stainless steel, serves to introduce permanently installed cables into electrical apparatus of the types of protection Flameproof enclosure "db", Increased Safety "eb" and Protection by Enclosure "ta".

The cable gland consists of:

- pressure screw
- sealing component
- double nipple with metric or NPT thread and O-ring.

Accessory is a lock nut.

Technical data

Size of connection thread	M16 to M63 NPT 3/8" to NPT 2 1/2"
Cable diameter	See table below
Suited for devices of equipment group II with mechanical risk level	High, 7 J
Mounted in enclosures with clearance holes Plastic, wall thickness Metal, wall thickness	≥ 2 mm ≥ 1 mm
Mounted in enclosures with threaded holes Plastic, wall thickness Metal, wall thickness	≥ 5 mm ≥ 3 mm
Service temperature range	-60 °C to +130 °C
Over pressure	Min. 48.6 bar
Ingress protection	IP66 and IP68 in accordance with EN 60529

Size		Cable diameter		Torque	Mechanical strength
Metric	NPT	Maximal	Minimal	Connection thread and Head thread	Impact energy
M 16	NPT 3/8"	11.0 mm	7.0 mm	15 Nm	7 J
M 20	NPT 1/2"	14.0 mm	8.0 mm	20 Nm	7 J
M 25	NPT 3/4"	20.0 mm	12.5 mm	30 Nm	7 J
M 32	NPT 1"	26.0 mm	18.5 mm	30 Nm	7 J
M 40	NPT 1 1/4"	34.0 mm	25.0 mm	35 Nm	7 J
M 50	NPT 2"	45.0 mm	33.0 mm	80 Nm	7 J
M 63	NPT 2 1/2"	56.0 mm	44.0 mm	80 Nm	7 J

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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 18 ATEX 1001X, Issue: 00

Nomenclature

LevelEx	Lex	*	*	*	*	*	*
1	2	3	4	5	6	7	8

1	General type	LevelEx					
2	Type short form	Lex					
3	Type of connection thread	2 = Metric 3 = NPT					
4	Connection thread, code number	16 = M16 20 = M20 25 = M25 32 = M32 40 = M40 50 = M50 63 = M63		038 = NPT 3/8" 012 = NPT 1/2" 034 = NPT 3/4" 100 = NPT 1" 114 = NPT 1 1/4 200 = NPT 2 212 = NPT 2 1/2			
5	Head thread, code number	19 = M19, 23 = M23, 29 = M29, 36 = M36 46 = M46, 58 = M58, 70 = M70					
6	Material cable gland body	ms = brass st = stainless steel					
7	Material sealing insert	HTS = Silicone					
8	Additional letter for material	zu = clamping pressure screw VA = stainless steel AISI 303 V4A = stainless steel AISI 316Ti bl = brass blank xx = other					

(16) Test Report PTB Ex 18-17169

(17) Specific conditions of use

Only permanently wired cables may be entered. The user shall provide for the required strain relief.

Degree of protection will be safeguarded only when sealing and cable entry fittings are properly fitted. The manufacturer's instructions must be followed.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, April 16, 2018


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