[1] # EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use in potentially explosive atmospheres - Directive 2014/34/EU**
Annex III - MODULE B: EU-TYPE EXAMINATION

[3] EU-type Examination Certificate number: **IMQ 16 ATEX 005 X**

[4] PRODUCT: **Cable glands, Plugs and Protection tap**
TYPE/SERIES: **UN..X.4; PLG..X.4 UN..X.7, UN..X.7(DS); NAVP.., NAVP..(DS); UN..X.7(axb); PLG..X.7; PT**

[5] MANUFACTURER: **ELFIT S.p.A.**

[6] ADDRESS: **Via Aquileia, 12**
34070 Villesse (GO) - Italy

[7] This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents therein referred to.

[8] IMQ, notified body N° 0051, 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 equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in Report No.: **AT20-0049011-01**

[9] Compliance with Essential Health and Safety Requirements, except in respect of those listed at item 18 of the annex, has been assured by compliance with:

EN 60079-0:2012 + A11:2013; EN 60079-7:2015; 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 equipment or protective system shall include the following:

II2GD **Ex eb IIC Gb**
Ex tb IIIC Db

This document is composed of 5 pages including 1 annex

FIRST ISSUE: 2016 I 02 I 11
CURRENT ISSUE: 2020 I 08 I 05
PREVIOUS ISSUE: 2016 I 02 I 11

B.U. PRODUCT CONFORMITY ASSESSMENT
CERTIFICATION SECTOR – MANAGER

[13] **Annex**

[14] EU-type Examination Certificate number: **IMQ 16 ATEX 005 X**

[15] **Description of product:**

Polyamide Cable Glands for circular cables; Plug; High Impact;
Polyamide Cable Glands for circular cables; High Impact;
Polyamide Cable Glands for non-circular (flat) cables;
High Impact Plug; High Impact Protection Tap

[15.1] **Models/Series Identification:**

The characteristics of the cable glands are codified according to the following key-code:

4 Jules Impact cable glands								
UN	(1)	(2)	X	(3)	4	-	(5)	
4 Jules Impact plugs								
PLG	(2)	(1)	X	(3)	4	-	(5)	
7 Jules Impact cable glands								
UN	(1)	(2)	X	(3)	7	-	(5)	
UN	(1)	(2)	X	(3)	7	-	(5)	(DS)
NAVP	(2)	(1)	X	E	-	(5)		
NAVP	(2)	(1)	X	E	-	(5)	DS	
7 Jules Impact cable glands for FLAT cables								
UN	(1)	(2)	X	(3)	7	-	(5)	(axb)
7 Jules Impact plugs								
PLG	(2)	(1)	X	(3)	7	-	(5)	
Protection tap								
PT	(2)							

(1) thread type:	"N" – NPT ANSI ASME B1.20.1 "I" – Metric ISO pitch 1,5 (ISO 965/1, ISO 965/2 and ISO 965/3) "P" – PG DIN 40430 "C" – PF ISO 228/1
(2) code for thread size	according to Assembly Tables
(3) cap colour:	"E" for black cap "I" for blue cap
(4) impact joule	"4" for 4J "7" for 7J
(5) body dimensional variant	if present, according to Assembly Tables

[15.2] **Ratings:**
N/A

[15.3] **Safety Ratings:**
N/A

[13] **Annex**

[14] EU-type Examination Certificate number: **IMQ 16 ATEX 005 X**

[15.4] **Ambient temperature and temperature classes:**
According to table below

Table 1: Rated ambient temperature range (°C) of sealing material

Series:	**Ex eb – Ex tb execution**
UN..X.4	Chloroprene (neoprene)/ silicon sealing ring: -40 ÷ +80 °C [2]
PLG..X.4	-40 ÷ +80 °C
UN..X.7	NBR sealing ring: -30 ÷ +70 °C Chloroprene (neoprene) sealing ring: -40 ÷ +70 °C Silicon sealing ring: -60 ÷ +70 °C
NAVP..	NBR sealing ring: -30 ÷ +70 °C Chloroprene (neoprene) sealing ring: -40 ÷ +70 °C Silicon sealing ring: -60 ÷ +70 °C
UN..X.7(axb)	Silicon sealing ring: -60 ÷ +70 °C
UN..X.7(DS)	NBR sealing ring: -30 ÷ +70 °C Chloroprene (neoprene) sealing ring: -40 ÷ +70 °C Silicon sealing ring: -60 ÷ +70 °C
NAVP..(DS)	NBR sealing ring: -30 ÷ +70 °C Chloroprene (neoprene) sealing ring: -40 ÷ +70 °C Silicon sealing ring: -60 ÷ +70 °C
PLG..X.7	NBR flat washer: -30 ÷ +70 °C Chloroprene (neoprene) /EPDM rubber flat washer: -40 ÷ +70 °C Silicon flat washer: -60 ÷ +70 °C KLINGERSIL® C-4400 flat washer: -60 ÷ +70 °C

Notes
1Service temperature is related to material of sealing rings and polyamide which cable glands body is made of, but can be additionally limited by material of flat washer/O-Ring material temperature limitations:
Chloroprene (-40÷100 °C); silicone (-60÷180 °C); EPDM rubber (-40÷110 °C); KLINGERSIL® C-4400 fiber (-50÷130 °C); NBR (-40÷100 °C).
The use of these materials in flat washer/O-Ring shall be taken into account in determination of lower limit of service temperature of cable glands, while upper limit is 80 °C for series P..-X and H..-X. and 70°C for all other series.

[2] When blue caps are used and/or when PT protection taps are used the service temperature changes to -40÷70 °C. Low mechanical risk (4J) shall beconsidered.

[15.5] **Degree of protection (IP code):**
IP66/68

[15.6] **Warnings:**
For gas installations (only for cable glands with M50/PG42/PF 1 ½"/NPT 1 ½" threads and following) and dust installations: Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.

[16] **Report:** AT20-0049011-01

[16.1] **Routine (factory) tests:**
The manufacturer shall carry out the routine test prescribed at clauses 27 of the EN 60079-0.

IMQ S.p.A. - www.imq.it

[13] **Annex**

[14] EU-type Examination Certificate number: **IMQ 16 ATEX 005 X**

[16.2] **Conformity with the documentation:**
The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.
Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:

- the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;
- the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.

[16.3] **Installation conditions:**
Above referred equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified at clause 1, par. 2 of EN 60079-0.
Installation and use in atmospheric and environmental conditions that are out of above mentioned intervals request special considerations and additional measures by the side of installer or user.
These should be specified to the manufacturer by the user;
It is not a required by applicable standard listed in [9] that the certification body confirm suitability for the adverse conditions.
Installation of equipment has to proceed according to EN 60079-14.

[17] **Special Condition of use (X):**

• The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting.
• The cable glands/plugs and the relevant cables, shall be used where a protection against risk of mechanical damage is provided, when they are suitable for low mechanical risk (4J) only for UN..X.4 and PLG..X.4 .
• The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
• For gas installations (only for cable glands with M50/PG42/PF 1 ½"/NPT 1 ½" threads and following) and dust installations: Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.
• When cable glands are installed with polyamide insert PT mechanical risk have to be taken into account, depending on cable gland and insert tap. When insert tap is removed in order to install the proper cable, the integrity of sealing rings have to be checked, in order to guarantee the correct tightness. If necessary, sealing rings have to be replaced with new ones (original spare parts only).
• Cable glands for non circular cables shall be fitted with proper cables, suitable for sealing ring, according to this manufacturer's instruction.

[18] **Essential Health and safety Requirements:**
This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [9].
This Certificate **does not** cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered in clause 1 of EN 60079-0.

ESHR 1.2.7 According Annex VIII of the Directive
ESHR 1.4 Not verified.
ESHR 1.5 Not verified.
ESHR 3 Not applied.

Mod. 3686/4

ACCREDIA
PRD N° 005 B

IMQ S.p.A. - www.imq.it

[13] **Annex**

[14] EU-type Examination Certificate number: **IMQ 16 ATEX 005 X**

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [9], the following are considered relevant to this product, and conformity is demonstrated in the report:
N/A

[19] **Descriptive documents:**

DL- AT20-0049011-01, rev. 0, dated 2020-07-02.

[20] **Certification Validity Conditions:**
The use of this Certificate is subject to the Certification Scheme and to the Regulation applicable to holders of IMQ Certificates.
The validity of this certificate is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 19.
One copy of the mentioned documentation is kept in IMQ file.

[21] **Variations**
Adding new models NAVP. Standards update.