

CESI

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Capitale sociale 8 550 000 €
interamente versato
Codice fiscale e numero
iscrizione CCIAA 00793580150

Registro Imprese di Milano
Sezione Ordinaria
N. R.E.A. 429222
P.I. IT00793580150

Schema di certificazione

CEI-ATEX

Il CESI è stato autorizzato
dal governo italiano ad
operare quale organismo di
certificazione di apparecchi
e sistemi destinati a essere
utilizzati in atmosfera
potenzialmente esplosiva
con D.M. 1/3/1983, D.M.
19/6/1990, D.M. 20/7/1998
e D.M. 27/9/2000

CERTIFICATE



[1] EC-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective System intended for use
in potentially explosive atmospheres
Directive 94/9/EC

[3] EC-Type Examination Certificate number:

CESI 03 ATEX 305 X

[4] Equipment: Cable glands series UNI, UNP, UNN, XP and XPA; plugs series
PLG.XEP.

[5] Manufacturer: **EL.FIT S.p.A.**

[6] Address: Via Aquileia 12, Villesse (Gorizia - Italy).

[7] This equipment or protective system and any acceptable variation thereto is specified in the
schedule to this certificate and the documents therein referred to.

[8] CESI, notified body n. 0722 in accordance with Article 9 of the Council Directive 94/9/EC of
23 March 1994, certifies that this equipment or protective system 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 confidential report n. EX- A3/021502.

[9] Compliance with the Essential Health and Safety Requirements has been assured by
compliance with:

EN 50014: 1997 + A1..A2 EN 50019: 2000 EN 50281-1-1: 1998+A1

[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 EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and
tests of the specified equipment or protective system in accordance to the Directive 94/9/EC.
Further requirements of the Directive apply to the manufacturing process and supply of this
equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:



II 2GD EEx e II IP 66/68

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date November 10th 2004 - Translation issued the November 10th 2004

Prepared
Mirko Balaz

Approved
Ulisse Colombo

CESI

CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO
Business Unit Certificazione

Responsabilità

[13]

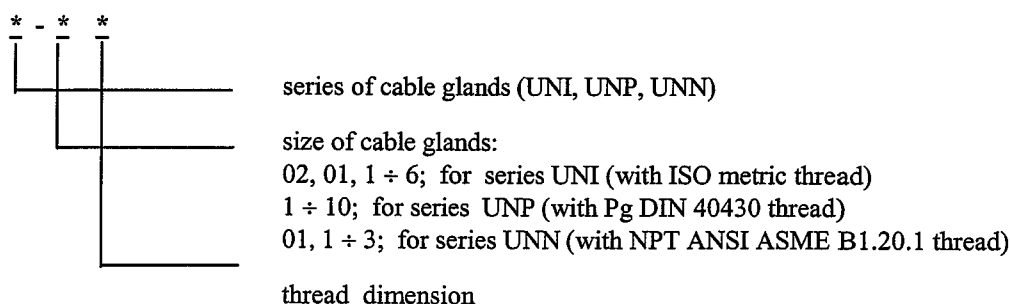
Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 305 X**

[15] **Description of equipment**

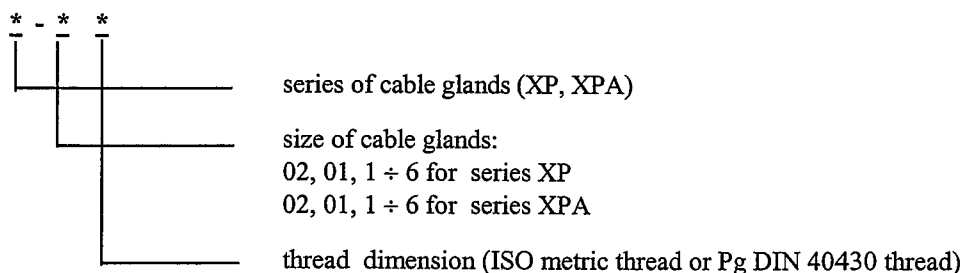
The cable glands series UNI, UNP and UNN made of polyamide, is used for the entry of fixed wiring in electrical equipment with the type of protection Increased safety "EEx e". The cable gland series UNI and UNP consists of a gland body, inner gasket, cup nut and external flat gasket. The cable gland series UNN consists of a gland body, inner gasket and cup nut. The cable glands type UNI2 with special sealing rubber are intended for use with the flat cable. The cable glands series UNI, UNP and UNN may be provided with an additional sealing gasket, which will be fitted into the large sealing gasket in order to reduce the cable clamping area. A protection tubs (plug) type PT is an accessory.

The above mentioned cable glands are identified by a code as follows:



The cable glands series XP (for non armoured cable) and XPA (for armoured cable) are manufactured from brass and are used for the entry of fixed wiring in electrical equipment with the type of protection Increased safety "EEx e". The cable gland series XP consists of a gland body, inner gasket, cup nut, clamping plastic insert and external sealing o-ring. The cable gland series XPA consists of a gland body, inner gasket, cup nut, clamping plastic insert, pressure ring and external sealing o-ring. A protection tubs (plug) type PT is an accessory.

The above mentioned cable glands are identified by a code as follows:



The cable glands of all the series UNI, UNP, UNN, XP and XPA are protected against the risk of explosion for the presence of combustible dusts according to the standard EN 50281-1-1.

The cable glands EEx e II can be used in EEx i intrinsic safety circuits. In this case the cable glands have a part painted light blue.

The complete code, the dimensional and constructive characteristics of the cable glands are reported in the descriptive documents annexed to this certificate.

This certificate may only be reproduced in its entirety and without any change, schedule included.

[13]

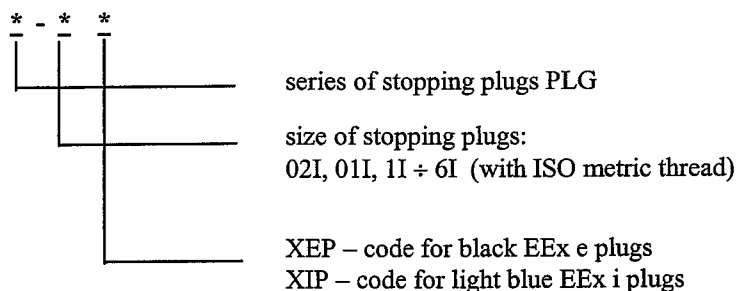
Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 305 X**

[15] **Description of equipment (follows)**

The **stopping plugs series PLG** are manufactured from polyamide and are used to fill unused entries in electrical equipment with the type of protection Increased safety "EEx e". The stopping plugs series PLG consists of a body and external flat gasket.

The above mentioned stopping plugs are identified by a code as follows:



The **stopping plugs series PLG** are protected against the risk of explosion for the presence of combustible dusts according to the standard EN 50281-1-1.

The complete code, the dimensional and constructive characteristics of the plugs are reported in the descriptive documents annexed to this certificate.

Operating temperature

The operating temperature of the cable glands and plugs in subject shall be in the range $-20 \div +80^{\circ}\text{C}$. The maximum operating temperature shall take into account the ambient temperature, the heating of the cable and the heating of the apparatus.

Degree of protection IP 66/68 (EN 60529: 1991)

The cable glands and plugs in subject, when coupled with the enclosures as indicated in the annexed documents to this certificate, guarantee a degree of protection IP 66 and IP 68.

Installation conditions

The coupling of cable glands and plugs with the enclosure shall be made as indicated by the manufacturer in the documents annexed to this certificate, in order to not jeopardize the type of protection of the electrical apparatus on which they are mounted.

[16] **Report n. EX- A3/021502.**

Routine tests

The manufacturer shall carry out the routine tests prescribed at clause 24 of the EN 50014 standard.

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[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 305 X**

Descriptive documents (prot. EX- A3/038393)

- n. A4 - 822	Rev. 0 (5 p.)	dated	18.04.2004
- n. A3 - 241	Rev. 0	dated	08.11.2003
- n. A3 - 242	Rev. 0	dated	08.11.2003
- n. A3 - 340	Rev. 0	dated	08.11.2003
- n. A3 - 341	Rev. 0	dated	08.12.2003
- n. A3 - 342	Rev. 0	dated	08.12.2003
- n. A3 - 343	Rev. 0	dated	18.04.2004
- n. A3 - 344	Rev. 0	dated	03.04.2004
- n. A3 - 345	Rev. 0	dated	10.01.2004
- n. A3 - 350	Rev. 0	dated	18.04.2004
- n. A4 - 1000	Rev. 0	dated	08.12.2003
- n. A4 - 1001	Rev. 0	dated	08.12.2003
- n. A4 - 1002	Rev. 0	dated	08.12.2003
- n. A4 - 1008	Rev. 0	dated	18.04.2004
- n. A4 - 1009	Rev. 0	dated	18.04.2004
- n. A4 - 824	Rev. 0	dated	08.11.2003
- n. A4 - 825	Rev. 0	dated	08.11.2003
- Brochure A (29 p.) - Components of cable glands type UNI			
- Brochure B (32 p.) - Components of cable glands type UNP			
- Brochure C (14 p.) - Components of cable glands type UNN			
- Brochure D (24 p.) - General information's of materials and tests.			
- Brochure E (50 p.) - Components of cable glands type XPA			
- Brochure F (40 p.) - Components cable glands type XP			
- Mounting instructions Annexe A19	Rev. 0 (6 p.)	dated	08.11.2003
- EC declaration of conformity n° CE/004		dated	08.11.2003

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use (X)**

The cable glands of all the series UNI, UNP, UNN, XP and XPA shall only be used for fixed installations. The installer shall also ensure that the cable is adequately clamped. The clamping of the cables shall be made outside the cable entries.

[18] **Essential Health and Safety Requirements**

Covered by standards.

This certificate may only be reproduced in its entirety and without any change, schedule included.

EXTENSION n. 01/07

to EC-Type Examination Certificate CESI 03ATEX 305X



Equipment: Cable glands series: UNI, UNP, UNN, XP, XPA.
Plugs series: PLG.XEP.

Manufacturer: EL.FIT S.p.A.

Address: Via Aquileia 12, Villesse (GO)

Admitted variation

- Upgrade to EN 60079-0 (2006), EN 60079-7 (2003), EN 61241-0 (2006), EN 61241-1 (2004) Standards
- Upgrade of nameplate

Equipments identification

The equipments shall include the following markings:



II 2GD

Ex e II, Ex tD A21 IP66/68

The cable glands "Ex d II" can be used in "Ex i" intrinsic safety circuits. In this case the cable gland have a part painted light blue.

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 03ATEX305X.

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date 11/05/2007 - translation issued the 11/05/2007

prepared Sergio Mezzetti

verified Mirko Balaz

approved Fiorenzo Bregani

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Centro Elettrotecnico Sperimentale Italiano
Giacinto Motta SpA

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EXTENSION n. 01/07

to EC-Type Examination Certificate CESI 03ATEX 305X

Report n. EX-A7012999

Routine tests

The manufacturer shall carry out the routine tests prescribed at par. 27 of the EN 60079-0 (2006) and at par. 24 of the EN 61241-0 (2006) Standards.

Descriptive documents (prot. EX-A7013002)

- Technical Note A4-822 (4 pg.)	Rev. 01	dated	26/01/2007
- Drawing n°. A4-1000	Rev. 01	dated	26/01/2007
- Drawing n°. A4-1001	Rev. 01	dated	26/01/2007
- Drawing n°. A4-1002	Rev. 01	dated	26/01/2007
- Drawing n°. A3-411	Rev. 00	dated	26/01/2007
- Safety Instruction A19 (6 pg.)	Rev. 01	dated	26/01/2007
- EC Declaration of Conformity		dated	26/01/2007

One copy of all documents is kept in CESI files.

Essential Health and Safety Requirements

The Health and Safety Requirements are assured by compliance with the following Standards:

- EN 60079-0 : 2006: Electrical apparatus for explosive gas atmospheres.
General requirements
- EN 60079-7: 2003 Increased safety "e"
- EN 61241-0 : 2006 Electrical apparatus for use in the presence of combustible dust.
General requirements
- EN 61241-1 : 2004 Protection by enclosures "tD"