CESI

...ÁSMES





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Schema di certificazione CHANGE CHAN



CERTIFICATE



[1] SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE

[2] Component intended for use on/in equipment or protective system intended for use in potentially explosive atmospheres

Directive 2014/34/EU

[3] Supplementary EU-Type Examination Certificate number:

CESI 01 ATEX 104 U/04

[4] Component:

Fittings series EM.., NP.., ELF.., ELMF.., ELM...

[5] Manufacturer:

ELFIT S.p.A.

[6] Address:

Via Aquileia, 12 – 34070 Villesse (GO) - Italy

- [7] This supplementary certificate extends EC-Type Examination Certificate CESI 01 ATEX 104 U, to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.
- [8] CESI, notified body n. 0722 in accordance with Article 17 of the Directive 2014/34/EU of the Parliament and Council of 26 February 2014, certifies that this component 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-B6015939.

- [9] In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016
- [10] The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- [11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified component in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.
- The marking of the component shall include the following:

Œx>

II 2 GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db

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

Date 26.07.2016 - Translation issued the 26 th .07.2016

Prepared Emanuele Bruno

Emanuele Bruno

Verified Mirko Balaz Approved
Roberto Piccin

CESI s

Testing & Certification Division
Busines Area Certification
/II_Responsabile

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(Roberto Piccin)

[14] SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 104 U /04

[15] Description of the variation to the component

- Variation 1 Upgrade to ATEX directive 2014/34/EU;
- Variation 2 Conformity to standards EN 60079-0:2012 + A11:2013, EN 60079-1:2014, EN 60079-7:2015, EN 60079-31:2014:
- Variation 3 Update of marking;
- Variation 4 Upgrade minimum ambient temperature from -50°C to -60°C;
- Variation 5 Added additional marking with CORTEM GROUP brand.

Description of equipment...

The Nipples, Couplings and Elbow fittings series EM.., NP.., ELF.., ELM.., ELMF.. are suitable to be mounted on cable conduits, on flameproof enclosures and on increased safety enclosures.

They are identified by a code as below:

- EM: Coupling female-female;
- NP: Nipple male-male;
- ELF: Elbow female-female;
- ELMF: Elbow male-female;
- ELM; Elbow male-male.

The Nipples, couplings and Elbow fittings series EM.., NP.., ELF.., ELM., ELMF.. are marked as follow:

- ELFIT EM... (Ex) 0722 II 2GD Ex db IIC Gb/Ex eb IIC Gb
 Ex tb IIIC Db IP66/67 CESI 01 ATEX 104U
- ELFIT NP... (Ex) 0722 II 2GD Ex db IIC Gb/Ex eb IIC Gb
 Ex tb IIIC Db IP66/67 CESI 01 ATEX 104U
- ELFIT ELF... (Ex) 0722 II 2GD Ex db IIC Gb/Ex eb IIC Gb
 Ex tb IIIC Db IP66/67 CESI 01 ATEX 104U
- ELFIT ELM... © 0722 II 2GD Ex db IIC Gb/Ex eb IIC Gb
 Ex tb IIIC Db IP66/67 CESI 01 ATEX 104U
- ELFIT ELMF... (Ex) 0722 II 2GD Ex db IIC Gb/Ex eb IIC Gb
 Ex tb IIIC Db IP66/67 CESI 01 ATEX 104U

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[14] SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 104 U /04

The property of this certificate is ELFIT S.p.A. which it is the manufacturer that normally put in the market the product with ATEX certificate.

The same product is IECEx certified in the name of CORTEM SpA.

ELFIT and CORTEM are members of brand CORTEM GROUP.

When the product is marked with both numbers of certificate, then the identification of manufacturer is made from trademark of brand "CORTEM GROUP".

CORTEM GROUP EM... (EX) 0722 II 2GD CESI 01 ATEX 104U Ex db IIC Gb/Ex eb IIC Gb Ex tb IIIC Db IP66/67 IECEx CES 15.0005U

CORTEM GROUP NP... (EX) 0722 II 2GD CESI 01 ATEX 104U Ex db IIC Gb/Ex eb IIC Gb Ex tb IIIC Db IP66/67 IECEx CES 15.0005U

CORTEM GROUP EL... (Ex.) 0722 II 2GD CESI 01 ATEX 104U Ex db IIC Gb/Ex eb IIC Gb Ex tb IIIC Db IP66/67 IECEx CES 15.0005U

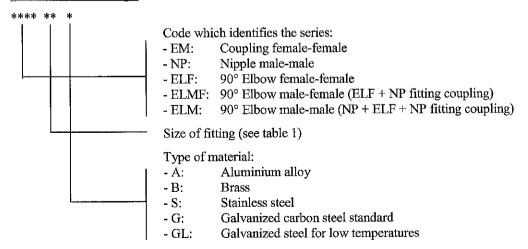
The Nipples, Couplings and Elbow fittings can be made in brass, stainless steel, galvanised steel ASTM A105 or ASTM A203 or in aluminium alloy.

The Nipples, Couplings and Elbow fittings standard threads types are NPT/ANSI ASME B1.20.1 from 1/4" up to 6" for types EM.. and NP.. and from 1/4" up to 4" for types ELF.., ELMF.. and ELM...

Alternative available tapered threads are admitted as indicated on drawing A4-4952 rev.2 (for tapered threads) and A4-5404 rev.1 (for cylindrical threads).

Thread length are made according to Annex C of EN 60079-1.

Identification of fittings:



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Types, sizes and threads of fittings are listed on the following Table 1:

Table 1:

Fittings type	Size code	NPT	Gk	ISO pitch 1,5 Thread
V X		Thread	Thread	
	02	1/4"		M 12
	01	3/8"		M 16
	1	1/2"	1/2	M 20
TORK NID	2	3/4"	3/4	M 25
EM, NP, ELF, ELMF, ELM	3	1"	1	M 32
	4	11/4"	11/4	M 40
	5	11/2"	1½	M 50
	6	2"	2	M 63
	7	2½"	21/2	M 75
	8	3"	3	M 90
	10	4"	4	M 100
EM, NP	12	5"		
	14	6"		

[16] **Report n.** EX-B6015939

Routine tests

None

[17] Schedule of limitations

- The coupling of the fittings with the conduits or the enclosures shall be made as indicated by the manufacturer in the documents annexed to this certificate in order respect the type of protection of the electrical apparatus on which the fittings are mounted.
- The fittings shall be mounted in the electrical apparatus in such a way that accidental rotation and loosening will be prevented.
- Fittings with diameter lower than ø3/4" (25mm) made of Aluminium alloy cannot be used.
- The fittings shall be installed in such a way that the temperature at the mounting point will remain within the following service temperature ranges:

Туре	Materials	Gasket	Ambient temperature
EM, NP	Galvanised steel EN 10025 S3555JR	Silicone	-20°C +80 °C

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	ASTM A105, brass, Aluminium alloy, Stainless steel.		
EM, NP	Galvanised steel EN 10025 S3555JR ASTM A203, brass, Aluminium alloy, Stainless steel.	Silicone	-40°C +150 °C
EM, NP	Stainless steel	Silicone	-60°C+150 °C
ELF	Aluminium alloy	Silicone	-60°C+150 °C
ELM, ELMF	Aluminium alloy (ELF) +	Silicone	-60°C+150 °C

The degree of protection IP 66/67 according to the EN 60529 standard is guaranteed for the fittings if the holes into which fittings are mounted are suitably sealed. To this scope the correct positioning of the gaskets (for cylindrical threads) or the application of sealant on the threads (for tapered threads), shall be done as indicated in the manufacturer instruction.

[18] Essential Health and Safety Requirements

The Essential Health and Safety Requirements are assured by compliance to the following standards:

EN 60079-0: 2012 + A11:2013 - General requirements;

EN 60079-1: 2014 - Equipment protection by flameproof enclosures 'd'

EN 60079-7: 2015 -- Explosive atmospheres - Part 7: Equipment protection by increased safety "e";

EN 60079-31: 2014 - Equipment dust ignition protection by enclosure 't'

[19] Descriptive documents

(prot. EX-B6015940)

- Technical note A4-1135 (pg. 5)	rev.2	dated	07.07.2016
- Safety, maintenance and mounting Instructions A3 (pg. 3)	rev.4	dated	07.07.2016
- Attestation of Conformity no. 0139 FACSIMILE (pg. 1)	rev.0	dated	07.07.2016
- Drawing A3-202 (pg. 1)	rev.3	dated	25.02.2016
- Drawing A3-203 (pg. 1)	rev.3	dated	25.02.2016
- Drawing A3-204 (pg. 1)	rev3	dated	25.02.2016
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One copy of all documents is kept in CESI files.

[14] SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 104 U /04

Certificate history

Issue N°	Issue Date	Summary description of variation
04	26,07,2016	Upgrade to ATEX directive 2014/34/EU;
		Conformity to standards EN 60079-0:2012 + A11:2013, EN 60079-1:2014, EN
		60079-31:2014;
		Update of marking;
		Upgrade minimum ambient temperature from -50°C to -60°C;
		Added additional marking with CORTEM GROUP brand.
03	14.04.2015	Update to new edition of EN 60079-0:2012, EN 60079-1:2007, EN 60079-31:2009;
		Update of marking.
02	21.12.2007	Conformity to EN 60079-0:2006, EN 60079-1:2004, EN 61241-0:2006, EN 61241-
		1:2004;
		Update of nameplate;
		New operative range -55°C ÷ + 110°C.
01	23.12.2005	New category II2 GD (added protection against the risk of explosion from
		combustibile dusts in conformità with the standard EN 50281-1-1).
00	21.12,2001	First Issue of the Certificate