

CESI**CERTIFICATE**

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 interamente versato
 Codice fiscale e numero
 iscrizione CCIAA 00793580150

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

[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 04 ATEX 043

[4] Equipment: Socket devices series FSQC-... and plugs series FP-...

[5] Manufacturer: **COR.TEM S.p.A.**

[6] Address: Via Aquileia 10
 I - 34070 Villesse (Gorizia)

[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- A4/007000.

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

EN 50014: 1997+A1.. A2 EN 50018:2000+A1 EN50281-1-1:1998+A

[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 d IIC T6 IP 65 T 85°C

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

Date March 4th, 2004 translation issued on March 4th, 2004

Prepared
 Mirko Balaz

Approved
 Ulisse Colombo

CESI

CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO
 Business Unit Certificazione
 Il Responsabile

Schema di certificazione

CESI-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

[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 04 ATEX 043**

[15] **Description of equipment**

The socket device series FSQC-... and plug series FP-..., with flameproof socket outlet and plug is to provide for cable connection in potentially explosive areas. Powering up of equipment is done by inserting the plug, which acts on the internal circuit breaker.

Electrical characteristics

- Rated voltage max.	690 V
- Rated frequency	50 / 60 Hz
- Rated current max.	63 A
- Ambient temperature	- 20 ÷ + 40°C
- Degree of protection	IP 65 (EN 60529 – 1991)

Cable entries

Accessories used for the cable entry and to close the unused holes shall be certificated in accordance to the standards EN 50014, EN 50018 and EN 50281-1-1 and guarantee a minimum protection degree IP 65.

[16] **Report n. EX- A4/007000**

Routine tests

The manufacturer shall carry out the routine tests prescribed at paragraph 24 of the standard EN 50014 and at paragraph 16 of the standard EN 50018.

The routine overpressure test shall be carried out with the static method (paragraphs 15.1.3. of the standard EN 50018) at the pressure of:

- 10,5 bar on the plug enclosure;
- 17,5 bar on the socket enclosure.

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[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 04 ATEX 043**

Descriptive documents (prot. EX-A4/007002)

- Technical note n. A4-4556 (3 pg.)	dated	01.10.2003
- Drawing n. A1-4555 Rev. 0	dated	01.10.2003
- Drawing n. A4-4796 Rev. 0	dated	01.10.2003
- Technical sheet of sealing gasket BlueTech	dated	01.10.2003
- Technical sheet A4-2682 Rev. 2 of Later 4G/30 (3 pg.)	dated	01.10.2003
- Technical sheet A4-3155 of Later 4G/30 (2 pg.)	dated	01.10.2003
- Technical sheet Vires resin CRV (3 pg.)	dated	01.10.2003
- Safety instructions n. F-285 (7 pg.)	dated	01.10.2003
- EC declaration of conformity CE/0045	dated	01.10.2003
- Technical sheet A4-1279 Rev. 7 (2 pg.)	dated	01.10.2003

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use**

None.

[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. 01/08

to EC-Type Examination Certificate CESI 04 ATEX 043



Equipment: Socket devices series FSQC-.. and plugs series FP..

Manufacturer: CORTEM S.p.A.

Address: Via Aquileia, 10 Villesse (Gorizia), Italia

Admitted variation

- Conformity to EN 60079-0 (2006), EN60079-1 (2004), EN 61241-0 (2006), EN 61241-1 (2004) Standards
- Update of nameplate
- New ambient temperature up to +55°C

Marking

The marking of the equipment shall include the following:



II 2 GD Ex d IIC T6 ; Ex tD A21 IP 65 T85°C

Description of equipment

Socket devices series FSQC-.. and plugs series FP..

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 04ATEX043.

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date 25 June 2008 - translation issued the 25 June 2008

prepared Nicoletta Penati

verified Mirko Balaz

approved Fiorenzo Bregani

Nicoletta Penati
Mirko Balaz
CESI S.p.A.
Divisione Energia
"Area Tecnica Certificazione"
Il Responsabile

fiorenzo

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EXTENSION n. 01/8

to EC-Type Examination Certificate CESI 03ATEX198

Electrical characteristics

- Rated voltage maximum	690 V
- Rated frequency	50/60 Hz
- Rated current maximum	63 A
- No. of pins	from 3 to 5
- conductor section	10 mm ²
- ambient temperature	- 20 ÷ + 40 °C - 20 ÷ + 55 °C
- Temperature class	T6 for ambient temperature - 20 ÷ +40°C (+ 55°C)
- Maximum surface temperature T	T85°C for ambient temperature - 20 ÷ +40°C (+ 55°C)
- Protection degree	IP 65 (EN 60529)

Cable entries

The accessories used for cable entries and to close the unused holes shall be certified in accordance to the standards EN 60079-0, EN 60079-1, EN 61241-0, EN 61241-1 and guarantee a minimum protection degree IP 65.

Warning label

"Use cables suitable for a minimum operating temperature T_o °C".

T_o is equal to:

+100°C for equipment with rated current equal to 50 and maximum surface temperature of +55°C.

+100°C for equipment with rated current equal to 63A and maximum ambient temperature of +40°C (+55°C).

Report n. EX- A8018309

Routine tests

The manufacturer shall carry out the routine tests prescribed at par. 27 of the EN 60079-0 (2006) and at par. 16 of the EN 60079-1 Standards.

The overpressure routine test shall be carried out with static method, at the pressure of 13,5 bar, in conformity to the par. 15.1.3.1 of the EN 60079-1 Standard

Descriptive documents (prot. EX-A8018311)

- Technical Note n° A4-4990 rev. 2 (pages 2)	of	28.03.2007
- Safety instruction F-285 rev. 1 (pages 7)	of	28.03.2007
- A4 – 4796 rev. 1	of	28.03.2007
- A4 - 4951 rev. 0	of	02.04.2007
- A4 – 4952 rev. 0	of	02.04.2007
- EC declaration of conformity No. CE 0045	of	28.03.2007

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 60079-1 : 2004 Flamoproof enclosures "d".
- EN 61241-0 : 2006 Electrical apparatus for use in the presence of combustibile dust.
General requirements
- EN 61241-1 : 2004 Protection by enclosures "tD"

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**EXTENSION n. 02/14**

to EC-Type Examination Certificate CESI 04ATEX043

Equipment: Sockets series FSQC... and plugs series FP...**Manufacturer:** COR.TEM S.p.A.**Address:** Via Aquileia 10, Villesse (Gorizia - Italia)**Admitted variation**

- Use of new types materials
- Updating to the new reference standard editions: EN 60079-0: 2012, EN 60079-1:2007, EN 60079-31:2009
- Updating of nameplate

Description of equipment

The socket device series FSQC-... and plug series FP-..., are suitable for cable connection in potentially explosive areas, are equipped with an interlock switch and can be realized for rated current up to 63 A.

The socket device series FSQC-... and plug series FP-..., are typically manufactured in aluminium and on request in stainless steel. The internal socket for socket outlet and plug are made in BMC (color black); the cables are sealed by bi-component resin polyurethane based. The degree of protection IP65 is guaranteed by silicon gaskets

Updating of ATEX marking in compliance to new standard editions

The equipments shall include the following markings:



II 2GD
Ex d IIC T6 Gb
Ex tb IIC T85°C Db
IP65

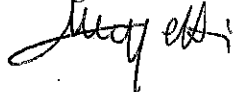
This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 04ATEX043.

This document may only be reproduced in its entirety and without any change.

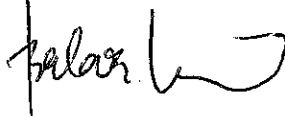
Date 26/02/2014 - Translation issued the 26/02/2014

Prepared

Sergio Mezzetti

**Verified**

Mirko Balaz

**Approved**

Fiorenzo Bregani

CESI S.p.A.Testing & Certification Division
Business Area Certification

In Responsabilità page 1/2



PRD N. 018B
Membro degli Accordi di Mutuo
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Signatory of EA, IAF and ILAC
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P.I. IT00793580150
N. R.E.A. 429222

EXTENSION n. 02/14

to EC-Type Examination Certificate CESI 04ATEX043

Electrical characteristics

- Rated voltage: 690 Vac
- Rated current: 16 – 32 - 63 A
- Rated frequency: 50 / 60 Hz
- N° pin 2+Earth; 3+Earth; 3+Neutral+Earth
- Conductor section 10 mm²
- Degree of protection: IP 65
- Ambient temperature: - 20 ÷ + 40 °C with internal switch with nominal current of 100 A
- 20 ÷ + 55 °C with internal switch with nominal current of 125 A

Cable entries

The accessories used for cable entries and for unused holes shall be suitably certified according to the applicable standards and shall guarantee the degree of protection IP65 according to EN 60529 standard.

The cable entries can have threaded size Gk ¾", 1", 1 ½", pipe tread in compliance to annex 1 of CEI EN 60079-1: 2008 standard. The Gk thread can be made in alternative to NPT pipe thread of ANSI/ASME B1.20.1 and are normally used for Italian market.

Warning label

For model 50 A at Ta_{MAX.} = +40 °C, and for model 63 A at Ta_{MAX.} = +55°C
"Use cable suitable for minimum temperature of 100°C"

Report n. EX-B4005224

Routine tests

The overpressure routine tests shall be carried out with static method, in compliance with paragraph 15.1.3.1 of the IEC 60079-1 standard, for 60 sec. at the following pressure values:

- 11.5 bar on the socket enclosure
- 11.0 bar on the plug enclosure

Descriptive documents (prot. EX-B4005230)

- | | | | |
|--|--------|-------|------------|
| - Technical Note A4- 6031 (3 pg.) | Rev. 0 | dated | 08/07/2013 |
| - Drawing n. A1- 4555 | Rev. 1 | dated | 08/07/2013 |
| - Drawing n. A3- 5479 | Rev. 0 | dated | 27/09/2010 |
| - Drawing n. A3- 5803 (2 sheets) | Rev. 0 | dated | 27/09/2010 |
| - Drawing n. A4- 4951 | Rev. 1 | dated | 27/01/2010 |
| - Drawing n. A4- 4952 | Rev. 2 | dated | 20/06/2012 |
| - Fac-simile Declaration of Conformity CE 0045 | | dated | 08/07/2013 |
| - Safety Instructions F-285 (7 pg.) | Rev. 2 | dated | 08/07/2013 |

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 : 2012- | Part 0: Explosive atmospheres - General requirements |
| EN 60079-1 : 2007- | Part 1: Explosive atmospheres: Flameproof enclosures "d" |
| EN 60079-31: 2009- | Part 31: Explosive atmospheres : dust ignition protection by enclosure "t" |

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