



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx INE 12.0003X issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2012-06-19** Page 1 of 4

Applicant: **ITALKRANE S.r.l**
Via Monza, 13
I-20060 BUSERO
Italy

Electrical Apparatus: **Cable Glands type TOR ...**
Optional accessory:

Type of Protection: **Ex d, e, tb**

Marking: **Ex d IIB/IIC Gb or Ex e IIB/IIC Gb**
Ex tb IIIC Db IP66

Approved for issue on behalf of the IECEx
Certification Body:

Thierry HOUEIX

Position:

Ex Certification Officer

Signature:
(for printed version)

Thierry Houeix

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

INERIS
Institut National de l'Environnement Industriel
et des Risques
BP n2
Parc Technologique ALATA
F-60550 Verneuil-En-Halatte
France



IECEx Certificate of Conformity

Certificate No.: IECEx INE 12.0003X

Date of Issue: 2012-06-19

Issue No.: 0

Page 2 of 4

Manufacturer: **ITALKRANE S.r.l**
Via Monza, 13
20060 BUSERO
Italy

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[FR/INE/ExTR12.0004/00](#)

Quality Assessment Report:

[FR/INE/QAR11.0006/00](#)



IECEx Certificate of Conformity

Certificate No.: IECEx INE 12.0003X

Date of Issue: 2012-06-19

Issue No.: 0

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Cable glands for flat cables protected by flameproof enclosure Ex d, increased safety Ex e and enclosure protection Ex tb.

PARAMETERS RELATING TO THE SAFETY

Temperature of using: from -50°C to 115°C.

Type of cable gland	Number of conductors and section	Cable dimensions (mm)	Maximum rated current	Maximum thickness of the cable	Maximum width of the cable (mm)
TOR 60	4x2,5 mm ²	22x8	10	10	30
TOR 60	4x4 mm ²	24x8	16	10	30
TOR 60	4x6 mm ²	30x9	25	10	30
TOR 90	4x10 mm ²	37x14	40	15	50
TOR 90	4x16 mm ²	45x15	63	15	50
TOR 90	8x1.5 mm ²	39x6	6	15	50
TOR 90	8x2.5 mm ²	39x7	10	15	50
TOR 90	12x1.5 mm ²	49x7	6	15	50
TOR 90	12x1.5 mm ² + 12x1.5 mm ²	49x13	6	15	50
TOR 90	4x25 mm ²	49x15	100	15	50
TOR 100	4x35 mm ²	70x21	140	22	22
TOR 100	12x1.5 mm ²	60x6	6	22	22

CONDITIONS OF CERTIFICATION: YES as shown below:

The gap and diametric clearance of the flamepath joint is less than the value specified in the table of IEC 60079-1 standard.

The width of the different flamepath joints is superior to that specified in the tables of IEC 60079-1 standard



IECEx Certificate of Conformity

Certificate No.: IECEx INE 12.0003X

Date of Issue: 2012-06-19

Issue No.: 0

Page 4 of 4

EQUIPMENT(continued):

MARKING

Marking has to be readable and indelible; it has to include the following indications:

- ITALKRANE
- I-20060 BUSSERO MILANO
- TOR...(*)
- IECEx INE 12.0003X
- Ex d IIB/IIC Gb and/or Ex e IIB/IIC Gb and/or Ex tb IIIC Db IP66
- (Type and size of threaded joint)

(*) Type is completed by a codification according to the manufacturing variations. The different types are indicated in the descriptive documents.