



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX INE 12.0043U** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2018-03-02\)](#)
[Issue 0 \(2012-09-28\)](#)
Date of Issue: 2022-01-06
Applicant: **BARTEC F.N. S.R.L.**
Via M. Pagano, 3
I - 20090 Trezzano sul Naviglio (MI)
Italy
Ex Component: Flexible conduits type TF II...
This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).
Type of Protection: **db and tb**
Marking: Ex db IIB Gb or Ex db IIC Gb
Ex tb IIIC Db IP66/67

Approved for issue on behalf of the IECEX
Certification Body:

Position:

Signature:
(for printed version)

Date:



Thierry HOUEIX

Ex Certification Officer

Signé électroniquement
Digitally signed by
Thierry HOUEIX
Ex Certification Officer
Délégué Certification

2022-01-06

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Certificate issued by:

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



controlling risks |
for sustainable development



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Manufacturer: **BARTEC F.N. S.R.L.**
Via M. Pagano, 3
I - 20090 Trezzano sul Naviglio (MI)
Italy

Additional
manufacturing
locations:

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 component 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](#) Explosive atmospheres - Part 0: General requirements
Edition:6.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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

TEST & ASSESSMENT REPORTS:

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

Test Reports:

[FR/INE/ExTR12.0042/01](#)

[FR/INE/ExTR12.0042/02](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/14](#)



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Ex Component(s) covered by this certificate is described below:

These metallic flexible conduits “db” and/or “tb” are used to connect equipment that is offset or subject to vibrations.

They get the protection degrees IP 66/67 in accordance with IEC 60529.

SCHEDULE OF LIMITATIONS:

The Ex component is intended to be used in an operating temperatures range from -60°C to 130°C.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue n°2:

- Change of the name and address of the applicant and manufacturer
- Update of the marking plates

Issue n°1:

- Extension of operating temperatures range from -50°C to -60°C
- Application of new standards versions: IEC 60079-1:2014 and IEC 60079-31:2013

Annex:

[IECEX INE 12.0043U-02_Annex.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

Size of components:

- Conical thread : 1/2" NPT up to 4" NPT
- Cylindrical thread : ISO M16 x 1 mm up to ISO M40 x 1 mm
ISO M16 x 1.5 mm up to ISO M115 x 1.5 mm
ISO M20 x 2 mm up to ISO M115 x 2 mm

The operating temperature of this Ex component is included between:

- - 60°C to +130°C.

MARKING

Marking has to be readable and indelible. In accordance with D.3.8 of IEC 60079-1 the Ex component enclosure shall be permanently marked internally. It has to include the following indications:

- | | |
|--|--------------------------------------|
| • BARTEC FN (**) | BARTEC FN (**) |
| • I – 20090 Trezzano Sul Naviglio (MI) | I – 20090 Trezzano Sul Naviglio (MI) |
| • TF II...(*) | TF II...(*) |
| • IECEx INE 12.0043U | IECEX INE 12.0043U |
| • Serial number / Year of construction | Serial number / Year of construction |
| • Ex db IIC Gb | Ex db IIB Gb |
| • Ex tb IIIC Db IP66/67 | Ex tb IIIC Db IP66/67 |

(*) Type is completed by numbers and/or letters corresponding to manufacturing variations.

(**) Optional Brands "BARTEC FEAM" or "BARTEC NASP" can be added in the marking with the sentence "manufactured by BARTEC FN"

On the small components, the marking can be reduced at:

- BARTEC FN (**) I-20090
- TF II...(*)
- IECEx INE 12.0043U
- Ex db/tb

(*) Type is completed by numbers and/or letters corresponding to manufacturing variations.

(**) Optional Brands "BARTEC FEAM" or "BARTEC NASP" can be added in the marking with the sentence "manufactured by BARTEC FN"

ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 16.1 of the IEC 60079-1 standard each piece of equipment defined above has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under 40 bar.