



# 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](http://www.iecex.com)

Certificate No.: IECEx CES 11.0008U

Issue No: 1

Certificate history:

[Issue No. 1 \(2018-04-04\)](#)

[Issue No. 0 \(2011-03-31\)](#)

Status: **Current**

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Date of Issue: **2018-04-04**

Applicant: **CABUR S.r.l.**  
Località Isolagrande n° 45  
I-17041 Altare (SV)  
**Italy**

Equipment: **Feed-through terminal blocks, BPL.4, TPL.4 and BPL/R series**

*Optional accessory:*

Type of Protection: **Increased safety 'e'**

Marking:

**Ex eb I Mb**

**Ex eb IIC Gb**

*Approved for issue on behalf of the IECEx  
Certification Body:*

Mirko Balaz

*Position:*

Head of IECEx CB

*Signature:  
(for printed version)*

*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](#).

Certificate issued by:

**CESI**  
**Centro Elettrotecnico**  
**Sperimentale Italiano S.p.A.**  
**Via Rubattino 54**  
**20134 Milano**  
**Italy**



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Manufacturer: **CABUR S.r.l.**  
Località Isolagrande n° 45  
I-17041 Altare (SV)  
**Italy**

Additional 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 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** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-7 : 2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

*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:

[IT/CES/ExTR11.0009/00](#)

[IT/CES/ExTR11.0009/01](#)

Quality Assessment Report:

[IT/CES/QAR07.0004/10](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Cabur BPL.4, TPL.4 and BPL/R "increased safety" terminal blocks includes the following sizes: BPL.4, TPL.4 and BPL/R. They allows the direct and anti-loosening connection of solid, stranded and flexible conductors, by means of pressure plates, tightening screws and conducting body. Each clamping unit with rated cross-section from 4 mm<sup>2</sup> and can house only one conductor with a maximum size of 6 mm<sup>2</sup>.

These BPL.4 and TPL.4 terminal blocks can be mounted directly on panel by screws. While terminal blocks type BPL/R must necessarily be mounted in between the terminal blocks type BPL.4 and/or TPL.4.

The terminal blocks rated characteristics are further described in the Annexe of this certificate.

**SPECIFIC CONDITIONS OF USE: NO**



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Variation 1.1

The Increased safety terminal blocks BPL.4, TPL.4 and BPL/R series originally assessed in compliance to IEC 60079-0:2004 and IEC 60079-7:2006 have been re-assessed on the basis of IEC 60079-0:2011 and IEC 60079-7:2015 Standards.

### Variation 1.2

The Increased safety terminal blocks BPL.4, TPL.4 and BPL/R series was extended to the new service temperature range of -40°C up to +110°C.

### **Annex:**

[IECEx CES 11.0008U Issue 1 ANNEX-BPL\\_TPL\\_Terminal blocks.pdf](#)

Prot: B8009939

**Annex to certificate:** IECEx CES 11.0008U Issue No.:1 of 2018-04-04

**Applicant:** Cabur S.r.l.

Località Isolagrande 45, I-17041 Altare (SV) – Italy

**Electrical Apparatus:** Feed-through terminal blocks, BPL.4, TPL.4 and BPL/R series

## Description of the component:

Cabur **BPL.4**, **TPL.4** and **BPL/R** “increased safety” terminal blocks includes the following sizes: BPL.4, TPL.4 and BPL/R. They allows the direct and anti-loosening connection of solid, stranded and flexible conductors, by means of pressure plates, tightening screws and conducting body. Each clamping unit with rated cross-section from 4 mm<sup>2</sup> and can house only one conductor with a maximum size of 6 mm<sup>2</sup>.

Appropriate grooving, provided in the wire clamping collar and on the tin-plated copper conducting body, guarantee a perfect electrical contact and an efficient blocking of the conductor. The pressure plate are made of stainless steel and the tightening screws are manufactured in tempered and zinc-plated steel that with their coupling it is possible to apply the correct contact pressure.

The force applied during the tightening process, the overlapped threaded parts system act, by means of elastic deformation on the head of the screw, blocking it and avoiding subsequent loosening.

These **BPL.4** and **TPL.4** terminal blocks can be mounted directly on panel by screws. While terminal blocks type **BPL/R** must necessarily be mounted in between the terminal blocks type **BPL.4** and/or **TPL.4**.

The terminal blocks are contained into insulating bodies, made of Polyamide thermoplastic material and different colours according to Technical Note annexed to this certificate, that are manufactured in two specular half-shells which fit into each other by means of centring pins, provide an **IPXXB** protection degree.

The terminal blocks must be mounted inside “Ex eb” enclosures. The terminal blocks plus enclosure assembly must be subjected to separate certification.

## Identification of Terminal blocks:

**BPL.** = Terminal block series or type;

**4** = Rated cross-section of Terminal block (4 mm<sup>2</sup>).

**TPL.** = Terminal block series or type;

**4** = Rated cross-section of Terminal block (4 mm<sup>2</sup>).

**BPL/** = Terminal block series or type;

**R** = Rated cross-section of Terminal block (4 mm<sup>2</sup>).

## Electrical characteristics:

**BPL.4, TPL.4 and BPL/R** Terminal block ratings:

Terminal block type	Rated cross-section [mm <sup>2</sup> ]	Min. cross-section [mm <sup>2</sup> ]	Max. cross-section [mm <sup>2</sup> ]	Rated current [A]	Resistance of terminal block [ Ω ]	Rated voltage [Vac]
BPL.4	4	0.5	6	32	3.90 x 10 <sup>-4</sup>	320
TPL.6	4	0.5	6	32	3.90 x 10 <sup>-4</sup>	320
BPL/R	4	0.5	6	32	3.90 x 10 <sup>-4</sup>	320

The rated currents and rated cross-sections indicated above are for an ambient temperature range between – 40°C and + 40 °C and for T6 applications..



## IECEx Certificate of Conformity

**CESI**

Prot: B8009939

**Annex to certificate:** IECEx CES 11.0008U Issue No.:1 of 2018-04-04

**Applicant:** Cabur S.r.l.

Località Isolagrande 45, I-17041 Altare (SV) – Italy

**Electrical Apparatus:** Feed-through terminal blocks, BPL.4, TPL.4 and BPL/R series

### “Schedule of Limitations”:

- The **BPL.4**, **TPL.4** and **BPL/R** terminal blocks series are suited for a service temperature range between - 40°C and + 110 °C.
- The terminals shall be mounted inside an enclosure that meets the requirements of an approved type of protection as specified in IEC 60079-0 Standard with suitable IP degree of protection.
- When installing the terminals in an enclosure designed to Increased Safety “e” type of protection as specified in IEC 60079-7, the clearance and creepage distances shown in Table 2 shall be duly considered.
- The terminal blocks type **BPL/R** must necessarily be mounted onto the panel together with terminal blocks type **BPL.4** and/or **TPL.4**, by coupling between them the dovetail interlocking moulded in the insulating bodies of terminal blocks type **BPL.4**, **TPL.4** and **BPL/R**.
- For the mounting of terminal blocks **BPL.4** and **TPL.4** only screws in insulating materials must be used.