cabur

# Products and systems for the connection of electrical panels

## 2011-2012 Edition

CSQ CERTIFICAZIONE DEI SISTEMI QUALITÀ DELLE AZIENDE
UNI EN-ISO 9001

CSQ IQNet
UNI EN-ISO 14001

cabur

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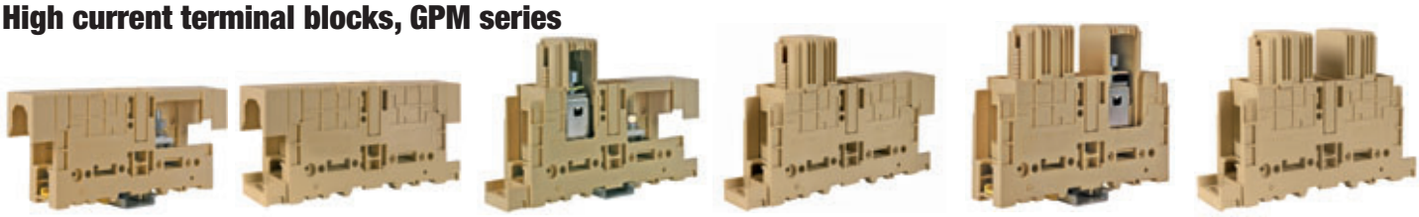

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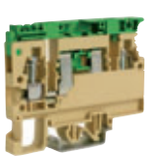

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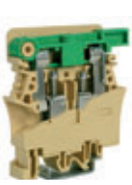

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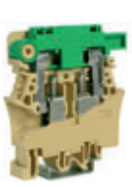

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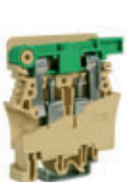

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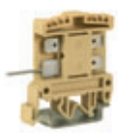

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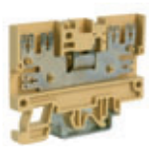

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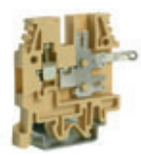

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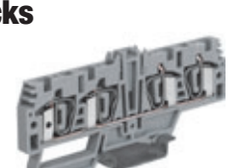

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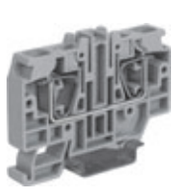

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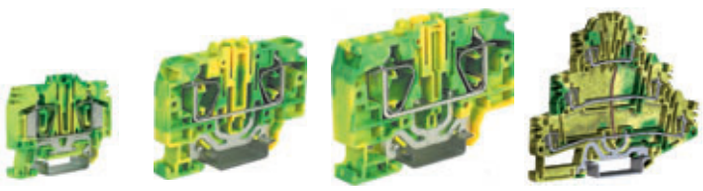

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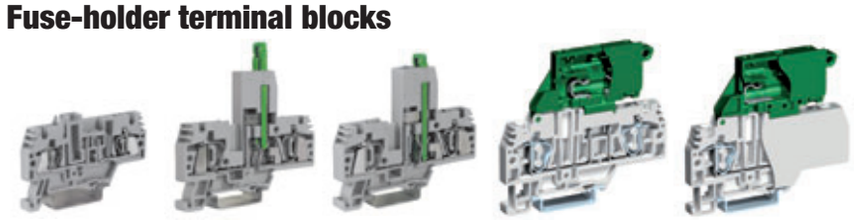

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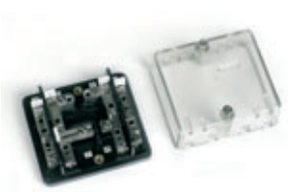

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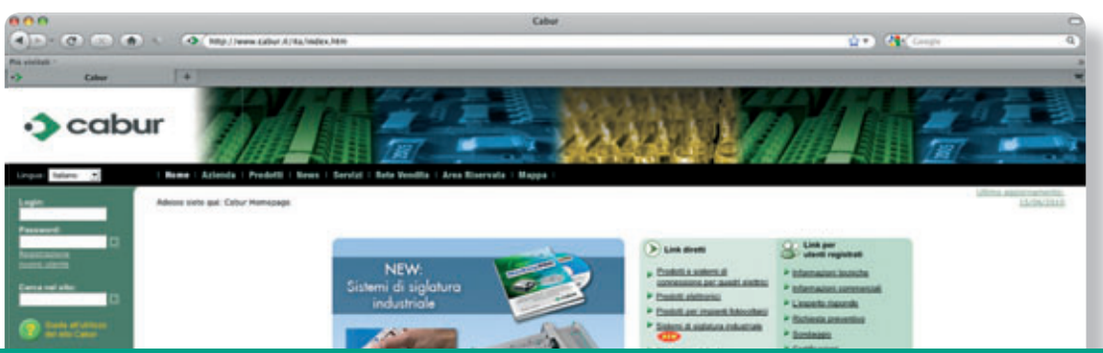
# cabur

- **Terminal blocks for electrical boards**
  polyamide screw clamp, spring-clamp terminal blocks, melamine insulated terminal blocks, terminal boards for metering panels, high current terminal blocks, mobile terminal blocks, protected distribution terminal boards, 12-pole polyamide terminal boards
- **Electronic products for electrical boards**
  power supplies, analog modules, relay modules, signal converters
- **Connection systems for photovoltaic plants**
  connectors, tools, cables, connection systems for photovoltaic equipment, String Boxes, dischargers, diodes, fuse holders
- **Industrial marking systems** NEW
  plotters and printing systems, tags and accessories to identify wires and terminal blocks, tags for contactors and push-buttons, modular strips for distribution panels, panel identification plates




**If you wish to receive complete and updated technical documentation on Cabur products, please send a request using the dedicated form that you can download**

**online sul sito www.cabur.it**

**http://www.cabur.it/documentazioni**

**or just fill in, and send the form below**

## PLEASE SEND ME THE COMPREHENSIVE TECHNICAL DOCUMENTATION

Surname ..... Name ..... Function .....

Company Name ..... Field of activity: ❑ Distributor ❑ Installer ❑ Panel builder ❑ Other

Address ..... Town ..... POSTCODE .....

Telephone ..... Fax ..... E-mail .....

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# Cabur 1952 2010

Shortly after its foundation, back in 1952, Cabur became a leading manufacturer of electrical panel terminal blocks, by focusing on installers' needs and providing leading edge technical solutions that, in some cases, would become popular in the industry.
In particular, in our product design and manufacturing, we have pioneered a quality focus on raw materials, functionality, reliability over time, and respect for the environment. That is the reason why Cabur was granted Class 1E (Equipment for Nuclear Power Generating Stations) qualification as early as in 1985 and, in addition, the ISO 9001 (Quality) and ISO 14001 (Environment) certifications, as well as Notification of production in compliance with the ATEX Directive and the Certification Scheme IEC Ex for "Ex e" installations on the most important terminal block lines.

CSQ IQNet
UNI EN-ISO 14001

CSQ IQNet
UNI EN-ISO 9001

## The Headoffices

In 2006 a significant growth in company structure urged the organization to move from the historic site in Albissola Marina to a new logistic and manufacturing centre in Altare (SV).
Rather than moving abroad, Cabur has opted to invest in Italy, by acquiring a new state-of-the-art 15,000 sqm production site.
By doubling our production surface and increasing our staff with the recruitment of new people, we have been able to rationalise and make our production processes, logistics, and sales, even more efficient.

cabur

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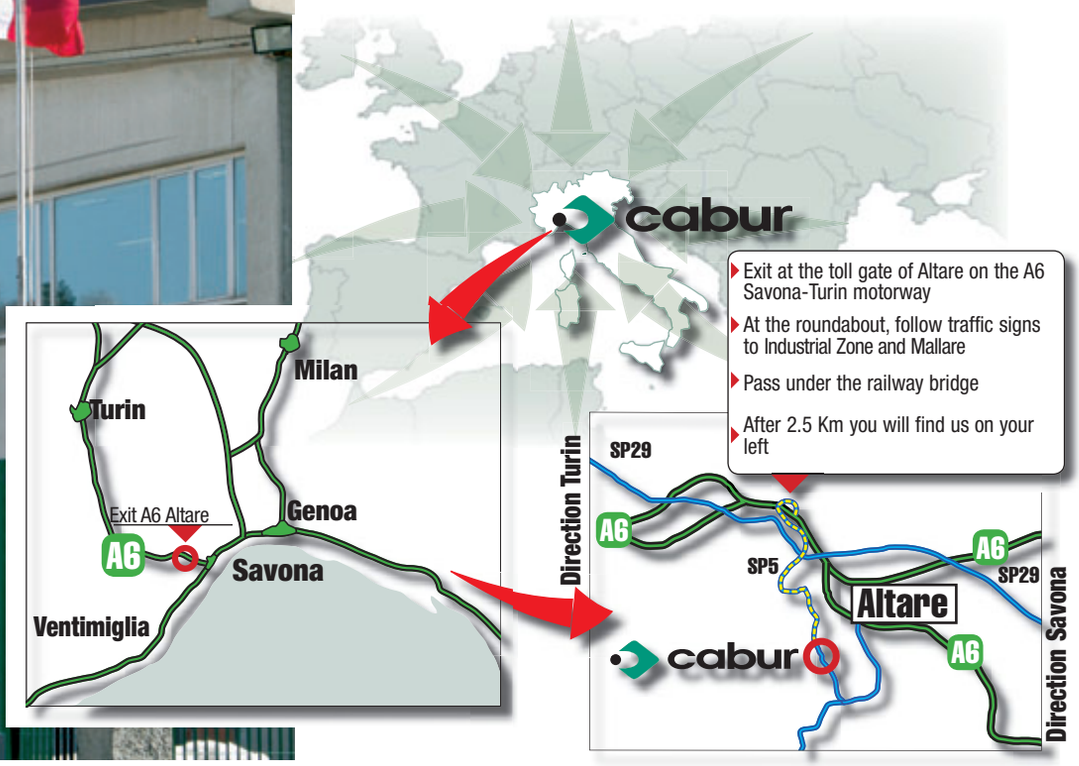
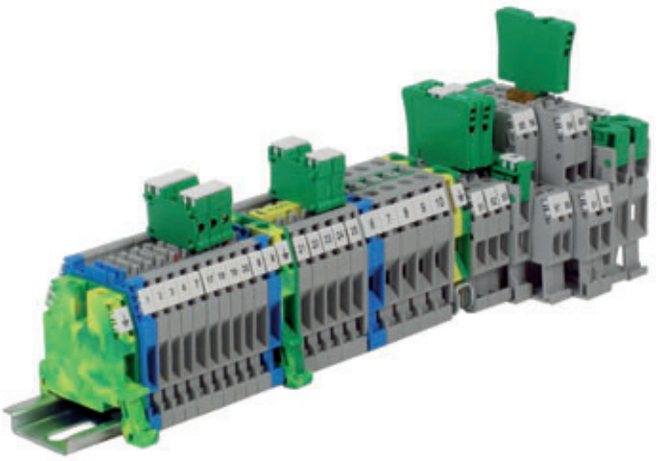


# Product range

With over 50 years of experience, Cabur develops and produces, by its own designs, a wide range of products for the electrical industry, providing the best in working conditions, in terms of operability and reliability.
Current production of:

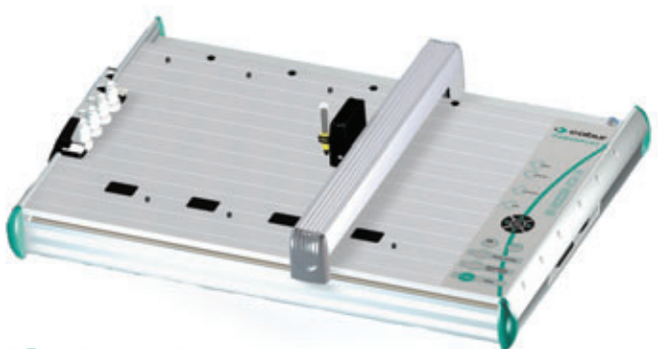
- **Terminal blocks for electrical boards**
- **Electronic products for electrical boards**
- **Installation products**
- **Connection systems for photovoltaic equipments**

Fully meets users' varied and complex installation needs.
Our varied and diversified production represents the optimal synthesis of Cabur's long experience as partner of Italy's most important Industries and Research Laboratories, combined with foreign activities and collaboration, always with the aim of pinpointing and meeting users' installation needs.



In particular as a result of a specific planning decision, products in our "standard" series are designed to meet the fundamental requirements of the most severe installation conditions and environments, thus avoiding to produce special product series for specific applications. This kind of planning has determined a clear qualitative improvement in the entire production, as well as a more streamlined and simplified product management, first of all to the advantage of the Distribution, which can guarantee to final Clients the most efficient service.

In addition to terminal blocks, Cabur product offering features a full range of electronic products for electric panels for plant and machine automation and process control. These products are designed for an easy deploy and for easy material management, thanks to the use of innovative and leading-edge technology.



The **new line of products for professional marking** completes the range with innovative printing solutions, tags for wires, terminal blocks and push-buttons, plates, tags and modular strips for distribution panels.

## Highest ...mass produced quality

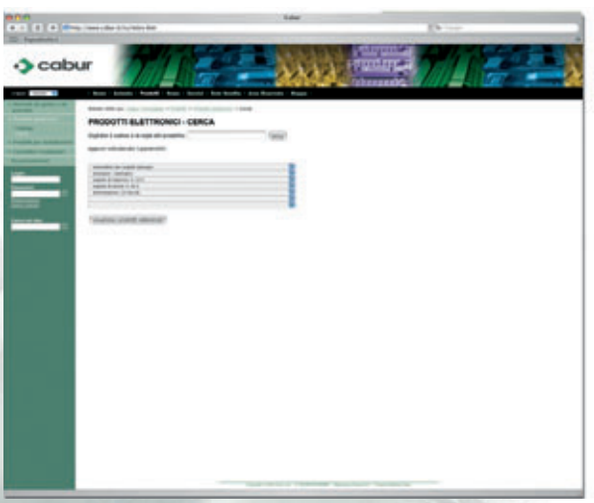
We guarantee top performance of our contacts and maximum flexibility of connection solutions.
A full range of standard products for automation panels is available at all major Wholesalers. Full support is provided by Cabur sales force both in Italy and in over 30 countries abroad, as well as by our Engineers, in order to provide our clients with the best installation solutions.

# www.cabur.eu Web Site

On our web site, our customers and industry operators can always get up-to-date information on new products and sales offers.
All data sheets of Cabur product range, including those in this Catalogue, are available on our online catalogue featuring advanced user-friendly search functions.

Moreover, on our web site you can:
- ask our specialists for technical information and application advice
- contact our sales staff and ask them for estimates
- download manuals and other technical literature
- get access to quality and compliance certificates
- look at our latest sales literature
- ask for free catalogues and brochures
- … and much more.

By this newsletter, Cabur communicates also via e-mail its main innovations and commercial activities to all those who apply for it through the registration form.
In conclusion, Cabur web site (**www.cabur.eu**) is the ideal tool to get real time information and contacts with our company.



# www.cabur.eu

## Real time information on our company, products, and certifications

**In order to be promptly updated about the availability of new technical and commercial documentation, please register on the site and join the newsletter service.**

# ISO 9001 CSQ Certification

Until recently, Cabur "Quality" was simply recognised through the appreciation of its customers. This has allowed the company to become a leader in Italy in the design, production and distribution of "terminal blocks for electrical panels" and, more recently, to extend its products offering to the segment of "electronic products" with recognised reliability levels in both Italian and foreign markets.
Obviously, this cannot be the result of improvisation, but of a constant organisation process begun back in 1985 with the definition and implementation of a Quality Assurance Programme based on ANSI N 45.2 (referred to the particularly severe nuclear environment) that has involved the entire structure of the Company and has made each function and worker responsible for quality standards.
Since 1995, CSQ (international institute for the certification of business quality systems) has certified the Quality system designed and adopted by Cabur.
The Quality system refers to the most complete and severe standard amongst UNI EN ISO 9000 series defining the requirements for Total Quality in Companies, that is ISO 9001, including the activities of Product Design, Development, Manufacturing and Customer Service.
After the issue of the new Edition of the Standard (ISO 9001:2008), the whole Quality System has been revised and renewed to be fully compliant with the new regulations. This compliance was confimed by CSQ with the new Certificate issued in 2009.

CSQ
CERTIFICAZIONE DEI SISTEMI QUALITÀ DELLE AZIENDE

**UNI EN-ISO 9001**

**THE QUALITY OF OUR PRODUCTS IS JUDGED BY OUR CUSTOMERS.
OUR QUALITY ASSURANCE SYSTEM IS CERTIFIED BY CSQ.**

# ISO 14001 CSQ Certification

In its continuous improvement process, CABUR has adopted an environmental management system since 2001, obtaining the international CSQ UNI EN 14001 recognition.
This goal represents a guarantee given of the respect Cabur has for the surrounding environment as well as a demonstration of the adoption of environmental safeguard rules and, additionally, a pledge for constant ecological improvement.
This kind of Certification is still quite uncommon in Italy; Cabur has nevertheless been able to achieve and add it to its corporate philosophy, which is always aimed at the anticipation, rather than to the passive adaptation, of those needs that are becoming more and more urgent and global. Environment is undoubtedly one of these issues and, anticipating many other companies, not only in Italy, Cabur firmly decided to adopt a system that monitors and prevents environmental risk, inherent to every stage of its manufacturing process.
Operational procedures and other paper documentation were unified and harmonised with the running Quality Assurance System and the manual, becoming of both Quality and Environmental Management, is now a complete reference point. The Quality Assurance and Environmental Management Department is at your complete disposal to provide any further information and/or clarification on the entire Quality / Environment System and Customer Service. Cabur can provide you with a copy of both CSQ and EQNET certificates, or with a copy of the Quality and Environmental Management manual.

CSQ
eco

**UNI EN-ISO 14001**

# The 2002/95/CE Directive

The 2002/95/CE Directive, known as RoHS, sets limits to the use of specific dangerous materials in electric and electronic devices.
The Directive applies exclusively to devices included in the following categories, as listed in attachment 1A of 2002/96/EC Directive, also knows as WEEE, excluding categories 8 and 9.

1. Large appliances excluding fixed ones
2. Small appliances
3. IT and telecommunication appliances
4. Consumers' appliances
5. Lighting appliances
6. Electric and electronic tools, excluding large fixed industrial tools
7. Toys and devices for hobbies and sports
10. Vending machines

**Cabur Products' compliance to RoHS Directive**

Cabur products are generally deployed in electric panels for electric distribution and for industrial automation, which are excluded from the application field of the RoHS Directive, as components of "fixed industrial tools" and of "fixed installations".
Nevertheless, in consideration of the needs of those Customers deploying Cabur products into devices and appliances that need to be RoHS compliant, we have decided to review our production according to RoHS Directive requirements.
From the beginning of the year we have been disposing of non-compliant items, not only to reduce dangerous substances but to eliminate them completely from components in our production, with a Zero Tolerance mindset.
The small amount of our products which is currently non-RoHS compliant consists of dated stocked parts or of those few items that cannot be produced by different materials or process yet. In any case, as mentioned above, these items are deployed in product categories that are not listed in the RoHS Directive application field.
Our staff is available for further details both on our products and on the application of the RoHS Directive.
For more information, please click on www.cabur.eu

# CE Marking

All products in this catalogue meet all EU applicable standards when the catalogue was printed. Therefore, all required CE markings are placed on the products and on all product related documents.

Do not hesitate to contact our staff for any further information and/or explanations on Reference Standards. Cabur Customer Service can provide you with certificates of compliance to Reference Standards, type approvals, and CE markings.

# Product Quality Assurance Notification according to ATEX 94/9/EC Directive and the Certification Scheme IEC Ex

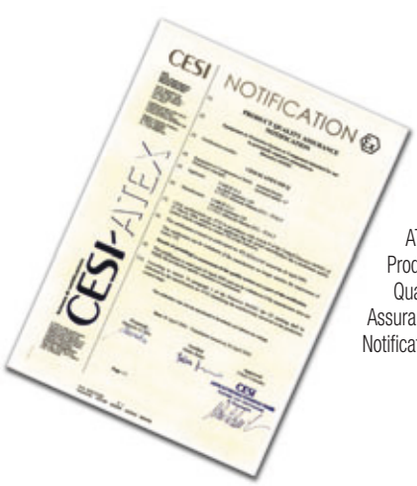
The procedure for renewal of the Product Quality Assurance Notification, granted to our Company, in 2001, as a manufacturer of equipment intended for use in potentially explosive atmospheres (increased safety measures) and according to the requirements given by **"ATEX" Directive 94/9/EC**, has been completed with a positive outcome. It was renewed in 2008.

In 2007, activities relating to the part of the System were also judged to be perfectly suitable to meeting the requirements established by Certification Scheme IEC Ex, with the issue by the O.N. of the QAR (Quality Assessment Report) No. IT/CES/QAR07.0004/00, according to Certification Scheme IEC Ex. This recognition is of global importance.

The Product Quality Assurance Notification has been the most demanding stage in the process of Ex e Certificates conversion, which have been issued on the basis of the requirements given by elder European Directives, into updated documents.

The Notification procedure has included a first stage, characterised by the documentation analysis (Quality/Environment Manual + ATEX Quality Plan + Operational procedures), following which a preliminary visit took place (carried out at the Notifying Body premises).

Once the first step was successfully completed, the second (namely the Company Notification ) took part and was carried out with the Certification visit.




ATEX Product Quality Assurance Notification

The relevant Notification number, granted by the Notifying Body is the following:

**CESI 02 ATEX 028 Q**

Our Quality and Environmental Management System today is consequently perfectly updated in order to fulfil also **ATEX** and **IEC Ex** Directive. As in the occasion of the Environmental Management Certification, the ATEX Notification represents a significant goal achieved in the **continual improvement** path.

## Terminal blocks approved in conformity to ATEX 94/9/CE Directive

"increased safety" **(Ex e)** terminal blocks are manufactured according to IEC EN 60079-0 / IEC EN 60079-7 / IEC EN 61241-0 Stds. and bear, on the insulating body, the name of the product and the electrical characteristics.

ATEX Marking:

**0722** Ⓔx **I M2 / II 2 G D**

| | |
|---|---|
| **0722** | = number of the Notifying Body (CESI) for the ATEX surveillance |
| **I M2** | = group **I** (mines), category **M2** |
| **II 2 G D** | = group **II** (surface), category **2 G** (gas) **D** (dust) |
| **Ex e** | = type of protection |
| **V** | = rated voltage |

The marking CE indicates the Conformity to UE 2006/95/CE Directive (Low Voltage).

IEC Ex Marking:

| | |
|---|---|
| **Ex e** | = safer protection mode |
| **II** | = group **II** (surface) |

**Terminal blocks must be installed in Ex e enclosures; the enclosure / terminal blocks assembly must be subjected to separate certification.**

The currents allowed for each terminal block, when used in potentially explosive environments (Ex e), are listed in the separated Certificate, granted to the assembly formed by terminal blocks + enclosure.

## Rail assembly composition in potentially explosive (Ex e) environments

Each terminal block can be connected to contiguous elements by means of fixed cross-connections which are made unloosening by means of an elastic washer located under the head of the screw. For fixed cross-connections it is necessary to keep well separated the different phases, by interposing a coloured partition, having a thickness of 1.5 mm, between adjoining cross connections and between cross connections and adjoining terminal blocks.

The multiple cross connection, by means of the commoning bar, can be connected to different terminal blocks, provided that they are adjoining one to another.