



 BRADY

Identify any cable & component

**Electrical, Tele- & Datacom
Identification Guide Book**

Why this Guide?

Well identified wires, cables and components give professionals like you an immediate insight into how an installation works and how it is connected. This enables you to perform repairs, installation updates and upgrades faster, in a safer, more secure way and with a reduced risk of human error.

There is a lot more to professional identification labels than meets the eye. Depending on the context of your job, it is better to choose a more resilient material that ensures legibility for the lifetime of a cable or component.



This Electrical, Tele- & Datacom Identification Guide Book will offer ideas on the best identification solution options for a great number of contexts encountered by Electrical, Telecom and Datacom installation professionals.

Table of Contents

| | |
|----|---|
| 2 | Why this Guide? |
| 4 | The Brady Advantage |
| 7 | Importance of Professional Labelling |
| 8 | What is a Professional Label? |
| 12 | Identification Tips & Tricks |
| 15 | Wire & Cable Identification |
| 17 | Wrap Around Labels |
| 19 | Cable Flags |
| 21 | Cable Tags |
| 23 | Sleeves |
| 25 | Rigid Markers |
| 27 | BradyGrip |
| 29 | Component Identification |
| 31 | Terminal Block & Breaker Box Identification |
| 33 | Electrical Panel Engraved Plate Replacement |
| 35 | Patch Panel & Outlet Identification |
| 36 | Custom Identification Solutions |
| 39 | On-site Label Printing Power |
| 51 | High Volume Printing |
| 53 | Pre Printed Identification Labels |
| 55 | Electrical Lockout/Tagout |

The Brady Advantage

Depth of product line

“We chose Brady because of the range of labels”

Brady utilises the greatest product range on the market to offer a complete identification solution in any context. This means Brady can bring you a uniquely professional and cost-saving advantage. If you require a new identification solution, you can rely on our chemists and engineers to create a completely new label build, including new combinations of label layers up to in-house engineered adhesives or inks.

When performance matters most

“Brady labels are durable and don't fall off, that's what we're after”

Brady offers a multitude of different materials, markers, inks, ribbons, print media and specialised adhesives in order to ensure that labels will remain in place even in harsh environments or on structured and paint-coated surfaces.

More than 100 years of experience

“It is great to be a customer with a company that you can trust”

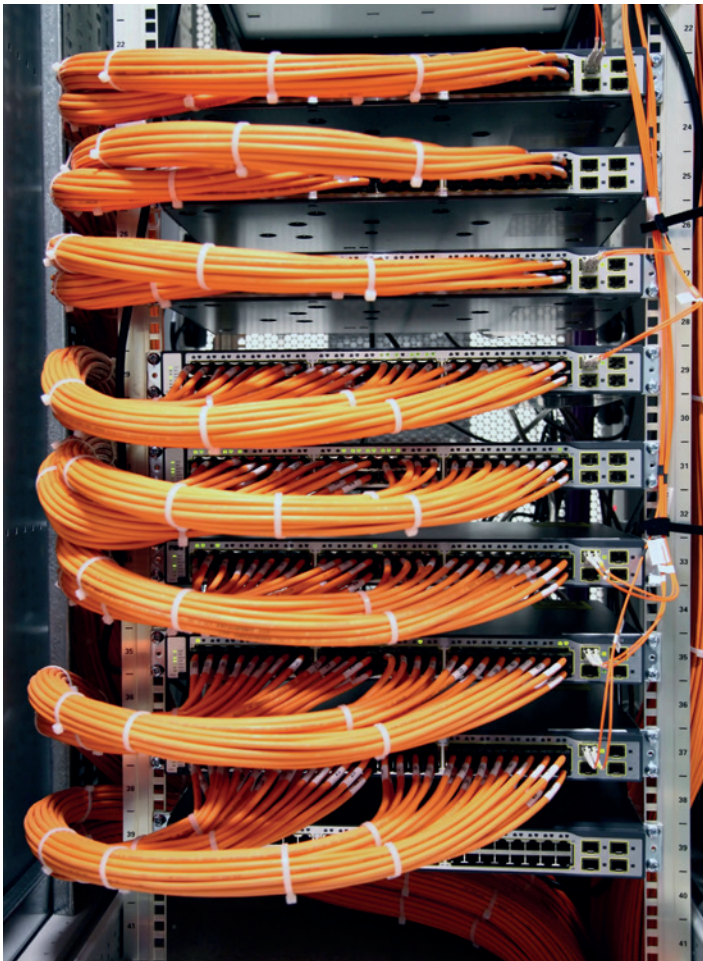
The high-performance component & cable identification systems that Brady supplies are the result of many years of dedication to the electrical & telecom markets.

You, our customer, are the reason Brady has been in business for a over 100 years. During that time, our customers have appreciated Brady's dedicated service and support, built on our technical expertise and enjoyed our market knowledge. With your support, we are planning to add at least another 100 years!

Excellent availability

“Easy to order - Fast Delivery”

With more than 1500 distributors throughout Europe, backed up by Brady services & support in every European region, our identification labels, printing solutions and consumables are always nearby to guarantee fast delivery.



Importance of professional labelling

Ever lost time figuring out where each wire goes?

Durable professional labels that remain legible and stay attached in harsh conditions are extremely important to keep power, network, voice and data cables and components organised and running effectively.

Professional identification on wires, cables and components enables you to:

- immediately recognise what needs checking during troubleshooting
- clearly mark parts for upcoming maintenance upgrades
- trace history, lifespan and supplier
- add safety warnings or precautions

Ask yourself how much time or money you lose while trying to trace unidentified faulty cable, wire or component.

Ask yourself how fast pressure builds when machinery, production lines, servers and services are impacted.

This is when professional labelling pays off big time.

What is a Professional Label?

Professional identification labels are engineered to withstand a number of harsh environments. To help you choose the best match for your context, these icons accompany our products on the following pages:



Abrasion resistance

Resistance proven with testing on Taber Abraser equipment with CS10 grinding wheels and weighted arms.



Fuel/oil resistance

Resistance proven with Immersion Test in Gasoline, Break Fluid, SAE 30wt Oil, JP-8 Jet Fuel, MIL-H-5606 Oil.



High heat resistance

Resistance to 100°C.



Low temperature resistance

Labels subjected to -40°C, -70°C or -80°C for 30 days or 1000 hours.



Removable

Indicated material can be removed cleanly with no adhesive residue left on surface



Self-extinguishing anti-flammability

Indicated material has flame retardant qualities to prevent the development of fire and to interrupt or to slow down combustion processes.



Solvent/chemical resistance

Resistance proven with MEK / Acetone / Toluene / Xylene Immersion Test.



Tear resistance

Indicated material can withstand the effects of tearing.



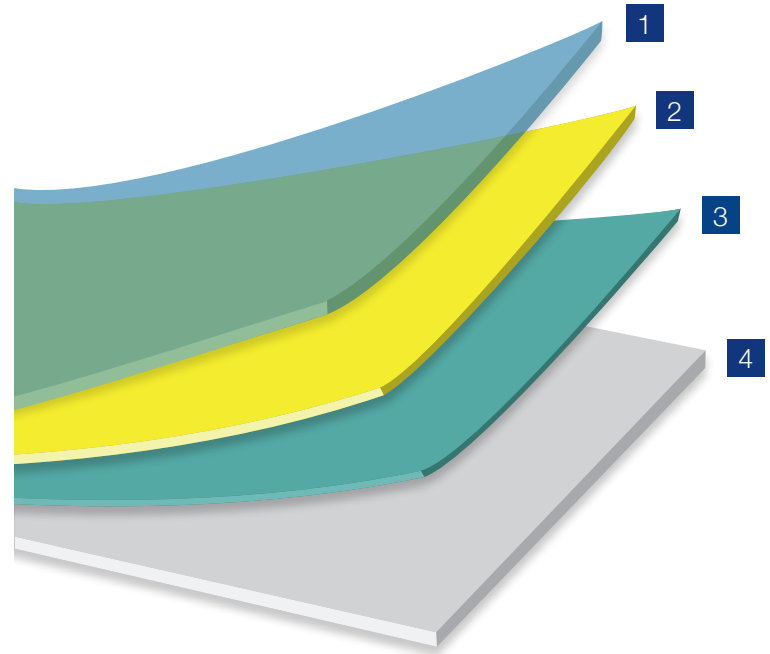
UV resistance

Indicated material can withstand the effects of UV radiation, making it less susceptible to fading.

Typical Construction of a Professional Label

The combination of label liner, adhesive, substrate and topcoat provide a professional label's features, resistances, capabilities and durability.

- 1 The topcoat gives the label its colour and finish, receives the print, and increases resistance against weathering, flames, chemicals or heat.
- 2 The substrate gives the label its form and provides tensile properties such as strength and flexibility and physical properties such as chemical and temperature resistance.
- 2 The adhesive attaches the label to a chosen surface type and ensures resistance against a set of environmental contexts.
- 4 The label liner is a very thin carrier that releases the self-adhesive label.



Identification Tips & Tricks

A professional identification label is available for every type of wire, cable & component in various label styles, sizes and materials to cover specific identification needs and requirements. But which label is the best one?

Material

Cable and component identification labels exist in various materials. The best material for your application depends on the environment it is exposed to.

- Polyolefin labels and sleeves remain legible in wet environments and have excellent resistances against chemicals and high temperatures.
- Vinyl labels offer excellent oil and dirt resistance, and are ideal for nonflat subsurfaces. Vinyl labels also offer great UV-resistance and come in 10+ standard colour variations.
- Nylon labels offer excellent resistance against chemicals and temperatures ranging from -196°C to $+121^{\circ}\text{C}$. They are ideal for use on curved surfaces and are very strong and flexible.

Cable thickness

Depending on the thickness of your wires or cables, you'll need to decide which sleeves or self-laminating labels to use in order to make sure they'll fit. Use these tips:

- Cable sleeves should have at least twice the height of the cable diameter
- Self-laminating labels should be ± 6.5 times the cable diameter ($2r \times 2\pi$)
- Wrap-around labels should have ± 3.5 times the cable diameter ($2r \times \pi$)
- Very thick cables can be identified using straps and a cable bundle tag

Terminated cables

When you need to identify cables or wires that are already attached, sleeves are not an option because they need to be slid over a wire or cable. Tags can be used as a non-adhesive alternative, and self-laminating labels, wrap-arounds and flag labels are a self-adhesive alternative for terminated cables.

Cable type

If you want to limit the contact surface between your wire or cable and your identification solution, use a P- or T-shaped flag label. This label type will minimise contact with fibre optic cables for example, while maximising label space to print a code or barcode on.

If you are unsure about the best identification solution for your application, contact your Brady specialist.



Use quality identification solutions from Brady



Because you can't rely on low quality labels

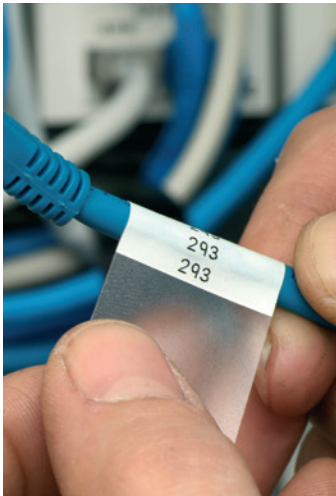
Wire & Cable Identification

Brady offers quality identification solutions for any wire or cable in any environment. Researched and tested, Brady labels were designed with durability in mind to make sure your identification work is intact for your next installation intervention.

When performance matters most, trust in the researched and tested Brady Identification Solutions for wires & cables:

- Wrap Around Labels
- Cable Flags
- Cable Tags
- Sleeves
- Slide-on Solution

The following pages show a selection of popular wire & cable identification solutions. For the full range, please visit our website www.bradyeurope.com.



Wrap Around Labels

Brady Wrap Around Labels offer good fading and abrasion resistance. Identifying cables and wires permanently or temporarily, wraparound labels offer both excellent print quality and high resistances versus extreme temperatures, chemicals and fuels.

The **B-427 Self-Laminating Vinyl Cable Labels** have a durable translucent vinyl film with an acrylic pressure sensitive adhesive. These labels have a white (or other colour options) printable zone and a transparent over-laminate which wraps around the label to protect the text from fading and abrasion. The **B-427 Self-Laminating Rotating Label** version can increase the speed of cable identification because its print can be read from any angle. The label can be rotated around a cable thanks to a non-adhesive printable zone and a translucent, self-adhesive laminate that is wrapped around a cable.

The **B-498 Repositionable Vinyl Cloth Labels** feature a specially formulated top coat with a cloth backing. These labels provide very good print quality and excellent holding power, while allowing repositioning of the label for a limited time.

B-427 Self-Laminating Label / Self-Laminating Rotating Label



ABRASION RESISTANCE



FUEL/OIL RESISTANCE



SELF-EXTINGUISHING ANTI-FLAMMABILITY



UV RESISTANCE

B-498 Repositionable Vinyl Cloth Label



ABRASION RESISTANCE

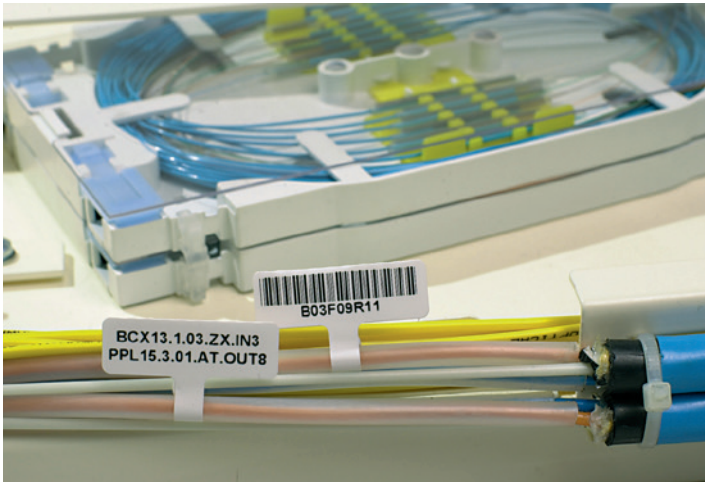
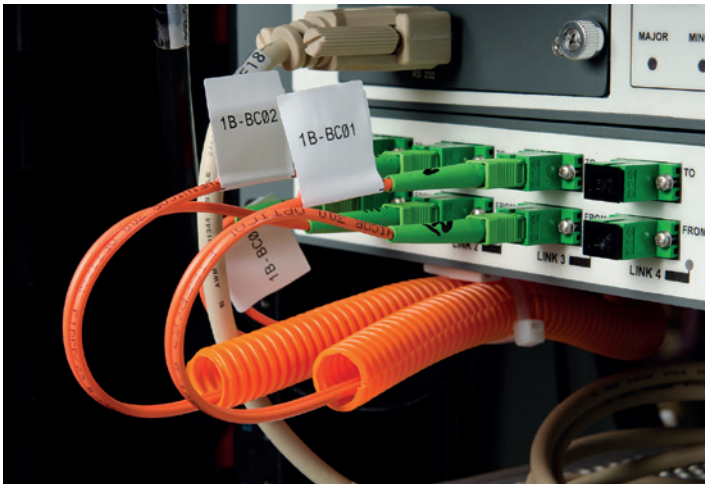


HIGH HEAT RESISTANCE



REMOVABLE

Type in the B-number at www.bradyeurope.com/tds for more technical information



Cable Flags

Cable Flag Labels are an excellent identification solution when more information or a barcode is needed to properly identify a cable or wire.

The **B-425 Polypropylene Cable Flag** is ideal to identify fibre optic cables. The material is very flexible and comes in P- or T-shaped label formats to minimise the contact surface between the label and the fibre optic cable.

The **B-499 Nylon Cloth Cable Flag**, allows for easy folding around wires and can be printed on both sides. This label offers good resistance against heat, cold, oil, dirt and chemicals.

B-425 Polypropylene Cable Flag



FUEL/OIL
RESISTANCE



LOW TEMPERATURE
RESISTANCE



SOLVENT/CHEMICAL
RESISTANCE

B-499 Nylon Cloth Cable Flag



ABRASION
RESISTANCE



FUEL/OIL
RESISTANCE

Type in the B-number at www.bradyeurope.com/tds for more technical information



Cable Tags

Cable tags are ideal for both in- and outdoor applications. They are usually attached using cable ties and are ideal for identifying thick cables or cable bundles. Cable tags offer a lot of space to add identification data and have high tear, solvent and heat resistance. A wide range of colours is available.

Brady proposes the **B-109**, **B-145**, **B-7643**, **B-7598** and **B-7599** cable tags to solve a variety of cable identification needs.



B-109/ B-145



FUEL/OIL
RESISTANCE



HIGH HEAT
RESISTANCE



LOW TEMPERATURE
RESISTANCE



TEAR
RESISTANCE



FUEL/OIL
RESISTANCE



LOW TEMPERATURE
RESISTANCE



SOLVENT/CHEMICAL
RESISTANCE,



TEAR
RESISTANCE

B-7643



FUEL/OIL
RESISTANCE



LOW TEMPERATURE
RESISTANCE



SOLVENT/CHEMICAL
RESISTANCE,



TEAR
RESISTANCE

B-7598



ABRASION
RESISTANCE



FUEL/OIL
RESISTANCE



HIGH HEAT
RESISTANCE



SOLVENT/CHEMICAL
RESISTANCE,



TEAR
RESISTANCE

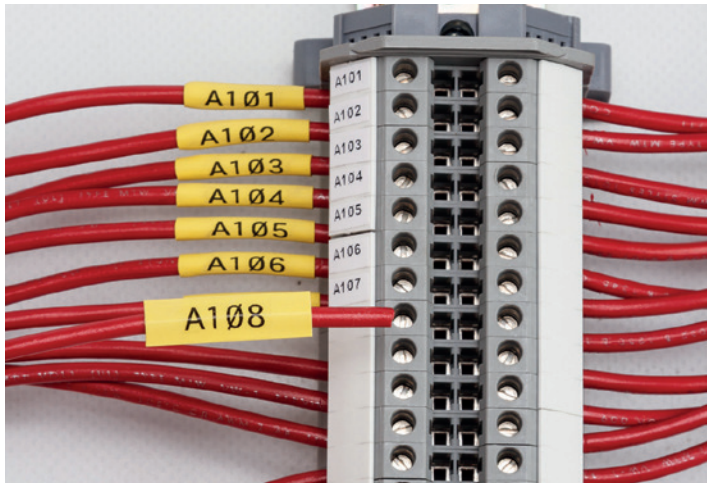


LOW TEMPERATURE
RESISTANCE



UV
RESISTANCE

Type in the B-number at www.bradyeurope.com/tds for more technical information



Sleeves

Sleeves are a flexible identification solution that can be moved along a cable until heat shrunk into position. This enables you to adjust sleeve position once cables are terminated. The sleeve needs to be slid over the cable before termination.

The **B-342 Heat-shrink polyolefin Permasleeve™**, available in many colours, has very good temperature (135°C) and chemical and solvents resistance. Clear, legible text can be printed on the wire and cable sleeve with a Brady printer for reliable wire identification.

The **B-7641 Low Smoke, Zero Halogen Sleeve**, has an excellent UV, humidity, and solvent resistance and excellent flammability (EN-45545-2). This sleeve helps comply with governmental regulations on smoke and chemical emissions during a fire.

B-7641 Low Smoke, Zero Halogen Sleeve



ABRASION
RESISTANCE



SOLVENT/CHEMICAL
RESISTANCE



SELF-EXTINGUISHING
ANTI-FLAMMABILITY



UV
RESISTANCE

B-342 Permasleeve

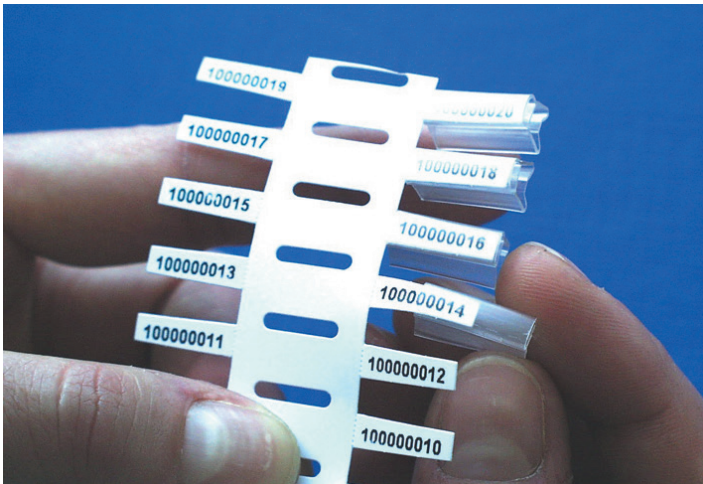


LOW TEMPERATURE
RESISTANCE



SELF-EXTINGUISHING
ANTI-FLAMMABILITY

Type in the B-number at www.bradyeurope.com/tds for more technical information



Rigid Markers

Brady also offers a complete range of rigid wire markers in PVC or polycarbonate.

Brady proposes the **B-7697 Durasleeve**, which is available in yellow and white and can be attached to a great variety of wires. Printable Durasleeves are inserted into a transparent, rigid PVC carrier which offers superior strength and protection for your printed inserts. The special shape of the clip-on carrier allows it to adapt to various diameters.

Brady offers a **complete range of tags & carriers and rigid clip-on identification solutions** in pvc or polycarbonate. Able to resist temperature ranges between -30°C and 80°C (pvc) or -40°C and 140°C (polycarbonate), rigid cable markers can be used as an alternative to cable labels.



Type in the B-number at www.bradyeurope.com/tds for more technical information

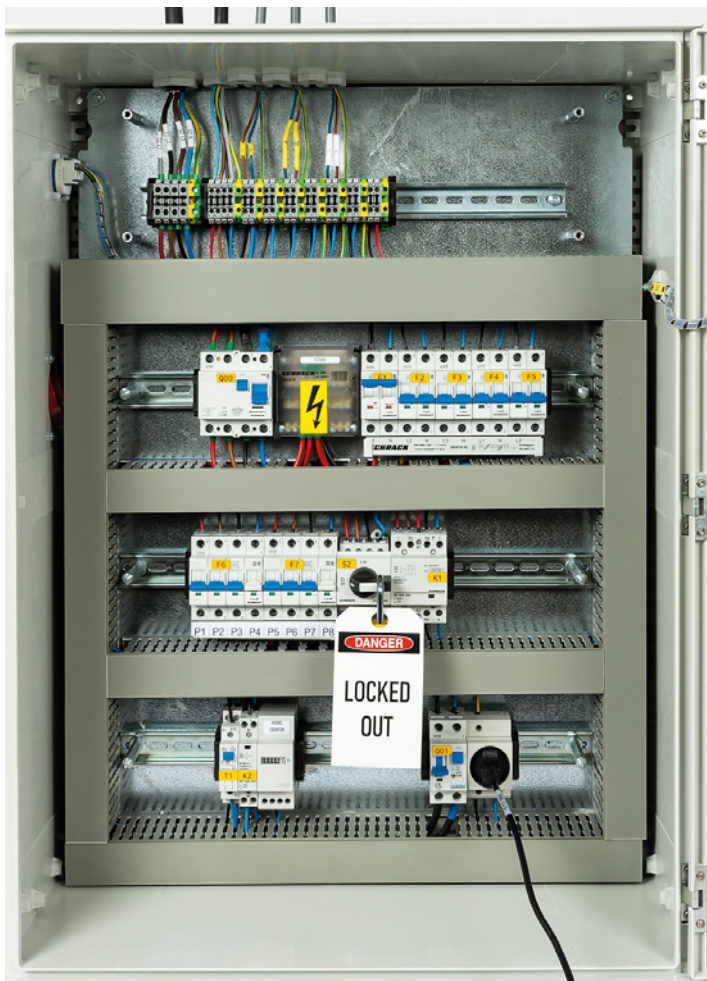


BradyGrip™

Print-on Hook Material

BradyGrip™ Print-on Hook Material is a one-of-a-kind solution that allows identification to be easily printed and placed on bundles. A grippy backing makes it easy to reposition or remove, so no need for costly rework. Just print on and place – it's that simple.

- **Improves efficiency:** Maximises your uptime with faster, printable ID for cable bundles.
- **Easy on, easy off:** Apply, reposition and remove with exclusive, print-and-place material.
- **Safe:** Offers a non-damaging alternative to nylon cable ties.
- **Ultra-adaptable:** Customise labels to fit big or small jobs by printing on different-width material.



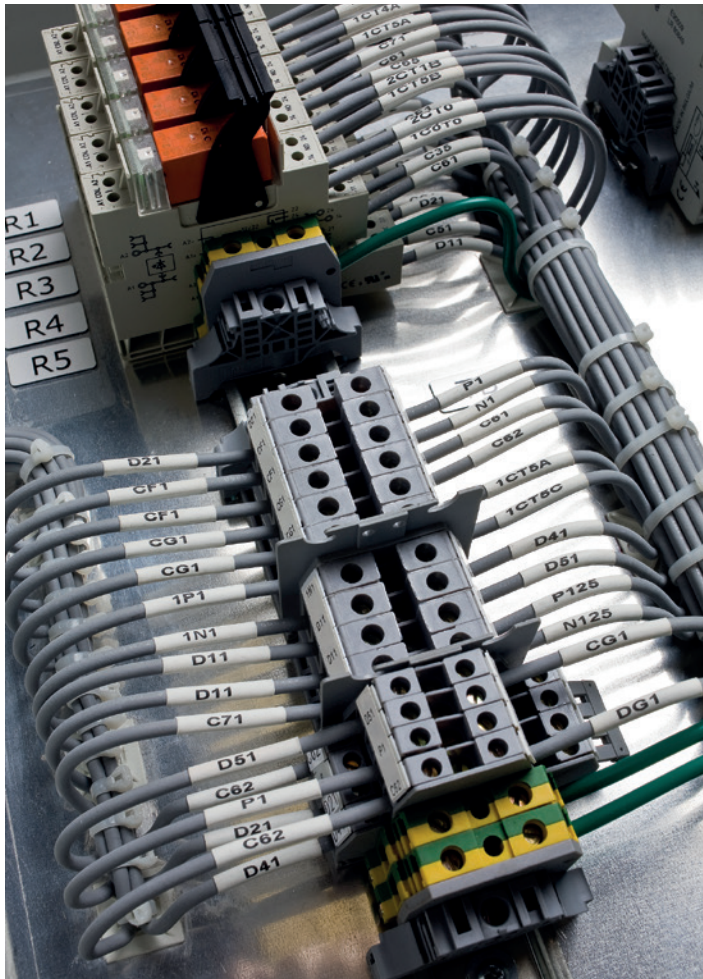
Component Identification

In addition to a great number of wires and cables, electrical, telecom and datacom installations also contain a large number of small and medium-sized components whose function or number can be identified for faster maintenance and follow-up operations.

Brady offers a number of specialised labels for components including

- Terminal Blocks & Breaker Boxes
- Electrical Panel Engraved plate replacements
- Patch Panels
- Outlets

The following pages show a selection of popular component identification solutions. For the full range, please visit our website www.bradyeurope.com.



Terminal Block & Breaker Box Identification

Using pre-printed clips is still very popular for identifying terminal blocks. However, labels that can be applied on the clip or directly on the terminal block are a cost-effective alternative that do not require a large stock of pre-printed clips. You only need to carry a few blank clip sizes and a printer that can print both your component and wire identification labels.

Brady proposes the **B-498 Terminal Block Repositionable Labels** which offer excellent holding power while easy to remove and reposition at the same time.

Tip: use the pre-defined terminal block & breaker box label types in the Brady portable printer menu to optimize the time needed to create those types of markers.

B-498 Terminal Block Repositionable Label



ABRASION
RESISTANCE



LOW TEMPERATURE
RESISTANCE

Type in the B-number at www.bradyeurope.com/tds for more technical information



Electrical Panel Engraved Plate Replacement

Choosing and buying the right engraved electrical panel legend plates can be a real hassle and they often require ordering in advance.

Brady proposes the innovative **B-593/B-7593 EPREP label** which is a polyester label featuring a compressible foam tape and a shiny topcoat. It is specifically designed to replace engraved and plotted plates for electrical component, electrical cabinet, push button and patch panel identification and can be printed on-site. This means you can decide on the spot what your engraved plate alternative should look like.



B-593/B-7593 EPREP Label



ABRASION
RESISTANCE



FUEL/OIL
RESISTANCE



SOLVENT/CHEMICAL
RESISTANCE



LOW TEMPERATURE
RESISTANCE



UV
RESISTANCE

Type in the B-number at www.bradyeurope.com/tds for more technical information



Patch Panel & Outlet Identification

Telecommunication outlets are usually identified manually using a pen, resulting in increasing legibility issues and loss of information over time. A quality printed label can remedy these problems.

Brady proposes the **B-412 polypropylene tags** or the **B-422/B-423/ B-430 Polyester Labels** to identify patch panels and outlets. Offering high tensile strength, these durable materials exist in a variety of sizes to identify racks, bays, frames, slots and other tele- and datacom equipment. They are designed to be printed and cut to length to slide into patch panel inserts or to be fixed with an adhesive.

B-412 Polypropylene Tag



ABRASION RESISTANCE



FUEL/OIL RESISTANCE



HIGH HEAT RESISTANCE



LOW TEMPERATURE RESISTANCE

B-422 Polyester Label



ABRASION RESISTANCE



FUEL/OIL RESISTANCE



HIGH HEAT RESISTANCE



LOW TEMPERATURE RESISTANCE



UV RESISTANCE

B-423/B-430 Polyester Label



ABRASION RESISTANCE



FUEL/OIL RESISTANCE



HIGH HEAT RESISTANCE

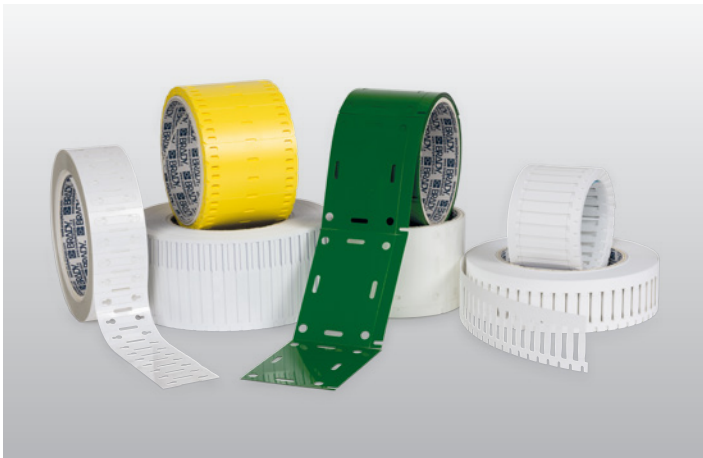


LOW TEMPERATURE RESISTANCE



UV RESISTANCE

Type in the B-number at www.bradyeurope.com/tds for more technical information



Custom Identification Solutions

Custom identification solutions can be created according to your specifications!

Frequently used custom labels include:

- Specific shapes and/or dimensions
- Specific coloring: material appearance through label colouring
- Specific materials to meet your requirements: chemical resistance, UV resistance, scratch resistance
- Specific printing or layout



Brady can leverage its identification expertise, material knowledge and R&D power if required to develop custom identification labels for your applications. Every Brady custom label can be printed with the BMP71 Label Printer and the benchtop label printers (BBP12, BradyPrinter i3300 and BradyPrinter i7100)



Portable Printing Power

With our professional mobile label printers, you will be able to label any cable, anywhere you are, in any way you want.

Our portable printing systems enable on demand printing of the most specialised wire, cable and component labels for electrical, network and data centre environments.

- Easily save preferred label formats for future reuse
- Quickly design the right label in the field on the printer, or on your phone
- Link up with your laptop to design even more labels with Brady Workstation
- Source label designs and label data from the office via email or USB
- Print on reliable materials that stay attached and remain legible



High Volume Printing

Easily print thousands of labels at your premises, or print and apply labels to cables in 5 seconds.

Our high precision and high accuracy benchtop label printers can print high volumes of labels at your premises. For companies faced with larger volumes of unidentified cables, we can offer automated print & apply systems that label a cable in less than 5 seconds.

All our benchtop printing systems work seamlessly with Brady Workstation apps for label design, and can communicate with our label materials to enable first time right printing, reduced waste and optimised efficiency.



Pre Printed Identification Labels

Pre-printed marker cards can be used for all products that do not have a special marker groove. It's a convenient method for providing a standard size frame around an array of markers, including terminal blocks, wire and cables and a variety of industrial equipment. The benefit of such a marker is that you can put your project description on every marker card, and that you can easily remove the markers from their frame.

Brady also offers pre-printed marker cards for wires and cables. The marker cards offer a series of pre-printed numbers and letters which can easily be torn off to identify your wires and cables.

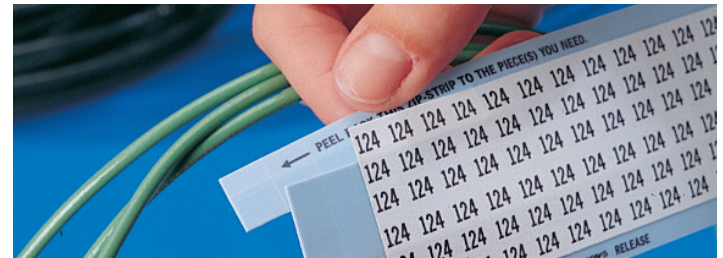
Next to marker cards, Brady also offers labels that are pre-printed with a safety message in colour, enabling you to add more printed information with a mono-colour printer, and still be compliant.



Industry
Printers



Wire
Automation

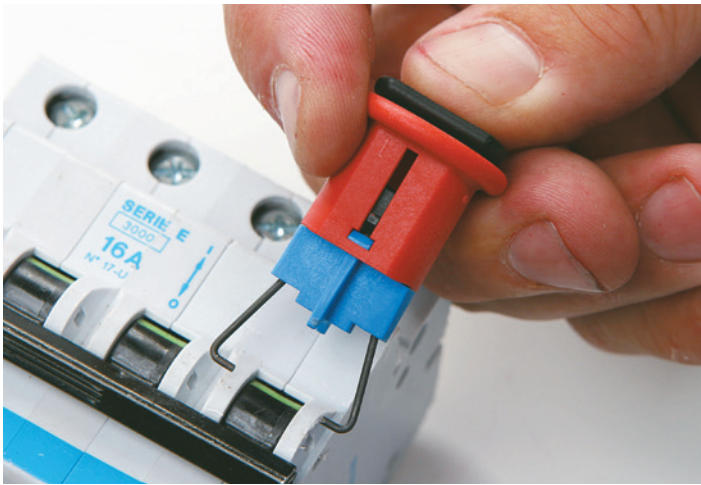


Electrical Lockout/Tagout

Besides wire, cable and component identification, Brady also offers Lockout/Tagout. This is a procedure involving the inoperability of machinery by isolating its energy sources. Brady offers a wide range of Lockout/Tagout solutions for all energy sources, including dedicated lockout devices, durable padlocks & keys, procedure writing services, procedure management software and a modular training video.

Brady's electrical Lockout/Tagout solution enables you to lock a circuit in the off-position with a lockout device and a padlock. Only you, or your team, can reenergise the circuit using your personal key after your maintenance work is done.

For more information visit www.bradyeurope.com/lockouttagout.





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products and premises



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