# Labelling systems

## Typical use environment / Specifications

**Typical use environment:**
Industrial application
Switchboard plants
Terminal boxes
Control systems etc.

**Typical use environment:**
Industrial application and mechanical engineering
Light to moderate soiling
Resistant to mechanical abrasion,
Resistant to standard cleaning agents

**Typical use environment:**
Heavy industrial use
Industrial and mechanical engineering, heavy soiling
Contact with media of all types

**Temperature range**

**Material**

**Fire classification according to UL 94**

**Additional notes** on product characteristics, on usage and on processing

## Product approvals

**Automobile industry**
Product approvals for facilities and machinery in the auto industry including at Audi, BMW, Citroën Peugeot, Daimler AG, Fiat, Karmann, Opel, Renault, VW

**Public buildings and institutions**
Product approvals for media-conducting systems (power, air, water), hygienic use, control, network, warning and signal units.

**Air, water, street transport** Product approval for
Aircraft: media-conducting systems, electric, hydraulic
Watercraft: Electro, hydraulic, pneumatic
Street vehicles: Bus, lorry, special vehicles

**Rail vehicles**
Product approvals for rail vehicles from Siemens, Bombardier, Alstom, Talgo for local and long-distance travel and for regional travel systems.

## DUOMATT colour combinations

| Colour combinations / colour codes | Surface / base colour |
|---|---|
| WS SW | white/black |
| SW WS | black/white |
| GE SW | yellow/black |
| RT WS | red/white |
| BL WS | blue/white |
| GN WS | green/white |
| WS RT | white/red |
| GE RT | yellow/red |
| SI SW | silver/black |
| GO SW | gold/black |
| OR WS | orange/white |
| GR SW | grey/black |
| SSI SW | Siemens silver/black |

Other colour combinations can be supplied on request.
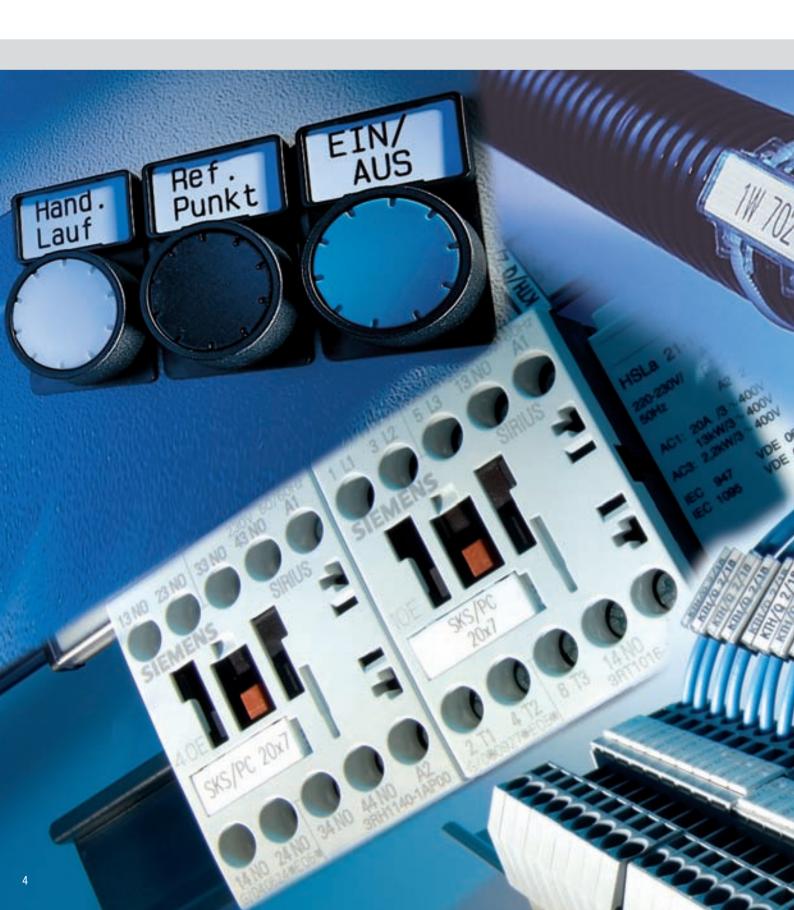The colour patterns depicted here may vary from the actual original material colours due to printing reasons.
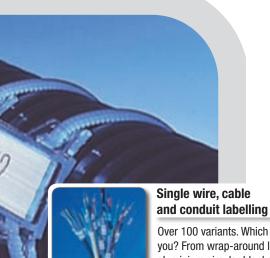
# Contents

### Single wire, cable and conduit labelling

Over 100 variants. Which one is right for you? From wrap-around labels to inscribed aluminium circular blanks.

### Terminal block labelling

Labelling plates for all standard clamping products. Suitable for terminal blocks from various manufacturers.

### Control gear and equipment location labelling

Labels for all standard electronic components in the control cabinet and within an installation, such as protective devices; bus modules, etc.

### Control and signal unit labelling

Manufacturer-neutral labelling of push-buttons and signal lamps. From stickers to inscribed plastic plates.

### System labelling

Label your systems, wherever they are used and whatever the conditions. From stickers to multi-layer plastic plates.

### Software ACS Gold Studio

The Windows/Unicode-compatible software allows for the production and processing of labelling data.

### Labelling systems

From transportable plotters for the service field to stationary plotters and thermal lamination systems and engraving machines.

### Accessories

Little aids to make the work go easier.

### Labelling and fitting service

We inscribe labels plates, sheet labels and DuoMatt labels and will fit them into label sleeves by request.

### Material properties

Properties and test procedures for materials used.

### Appendix / Type index

Our branch offices and representations in Germany and abroad, as well as an index of all type classifications used in the catalogue.

Since the requirement for labelling electrical components and wiring began, there has been a continuous and changing demand for cost-effective, time-saving and flexible methods of manufacturing them, even as systems have become more and more complex. For the makers of labelling systems, the challenge has been to keep coming up with new and innovative ideas.

Some years ago Murrplastik Systemtechnik GmbH developed a fast and simple labelling system for use on systems and components. It uses pre-printed ident inserts (with individual letters, numbers and symbols), and various sleeves and holders into which the idents are pushed.

With this method of labelling only a few components are required to achieve rapid, clean and durable results. The secret of the low component requirement lies with the fixed typeface on pre-printed label lettering for which a large number of different holders has been created. As far back as 1986, the existing system was enhanced by computer-aided labelling software and hardware.

The advent of this new software and hardware brought the added speed and flexibility of being able to make labels to order directly on-site. Over the last few years user software has taken on a different complexion. User software has evolved to include various options such as engraving, printing, lasing and plotting. Connections to upstream CAD/CAE systems facilitate fault-free data transfer to the output devices.

A constantly growing range of materials makes it easier to adapt to today's label requirements.

To sum up, the original hand-written (barely legible) label has evolved into a universal labelling system designed to meet all labelling requirements and to enable us to achieve our objective of saving you time.

# How it's done

**Manual entry by keyboard**

**ACS Software**

**Transfer from CAD-/CAE system**

**Porty P300**

The compact and convenient labelling system for on-site labelling.

**MVPS-G3 plotter**

The plotter family in three sizes for label plates, Duomatt and sheet labels.

**Laser option**

**Office printer**

Inscribe paper and plastic labels using laser, inkjet or dot matrix printers.

**Single wire, cable, and conduit labelling**

**ST Mark** 🔗

The thermal lamination system for high labelling volumes and abrasion resistance.

**Terminal block labelling**

**Control gear and equipment location labelling**

**Engraving option**

**Control and signal unit labelling**

Druck 1 Druck 2 Druck 3

Hand. Lauf   Ref. Punkt   EIN/AUS

MOTOR M1   MOTOR M2   MOTOR M3

**CAM complete systems**

For fine mechanical engraving on materials with two or more layers.

**System labelling**

Feld 23 = A 01 K

Feld 23 = A 01

**APPLICATION**

![ACS MP logo]

## Labelling everything with one software package

☑ **Corrugated conduits**

☑ **Media hoses**

☑ **Cables**

☑ **Terminals**

☑ **Murrplastik ACS Software**

☑ **Control gear**

☑ **Equipment location**

☑ **Enclosures**

☑ **Hydraulics/ Pneumatics**

**Individual wires**

**Installations**

Feld 23
= A 01 K

**Control and signal units**

**Sensors/ Actuators**
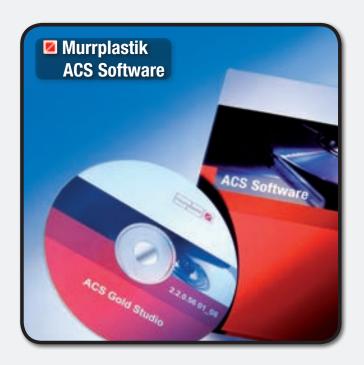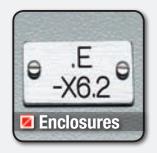
Modern labelling uses colours, numbers, symbols or plain text to improve communication between man and machine. It facilitates safe use of equipment.

The "ACS Gold Studio" universal labelling software is a fast and straightforward means to generate text, numbers, graphics or symbols quickly, easily and in-house and printing them on neutral label holders. Its integrated symbol database provides standardised symbols used in electrics, mechanics, hydraulics and pneumatics.

Other symbols of your choice can be added to the database using the editing function.

A CAD interface module connects the application to the E-CAE or to other planning systems, allowing rapid and accurate data transfer of function texts, wiring diagrams, terminal block or operating resource lists and machine schedules. A CAD interface generator supports the user in the creation of individual interfaces with existing software.

Utilities are provided to allow data to be freely assigned to the required labelling materials. Manipulation of text and colour attributes can be tailored to requirements at a click of the mouse.

The Labelling Systems chapter details all Murrplastik labelling systems and how they are optimised for your individual labelling needs. All Windows-based output devices are also supported.

That means that your labelling station can assume a central position in company-wide labelling tasks.

## European Standard EN 60204 (VDE 0113 Part 1)

... specifies that wires, cables, components and terminals must be clearly identified.

The identification must also be clearly visible and legible. Murrplastik's labelling system fulfils all of these requirements.

The Murrplastik labelling system facilitates the labelling of single wires, cables, terminal blocks, control gear, push-buttons, signal lamps and components, irrespective of make and type.

The labelling can be done manually with the Ademark system, or by means of the computer generated ACS system. Data transfer routines for



CAD/CAE packets support the project-specific transfer of labelling information.

**Murrplastik is the independent manufacturer of labelling systems.**

# Labelling of single wires, cables and conduits

**Label Sleeves KT**

Standard sleeves in various lengths.
Push-on mounting.

**Page 26**

**Label Sleeves KT
(sold by the metre)**

Standard sleeves to be cut to length.
Push-on mounting.           **Page 28**

**Label KT-B**

Soft sleeves in various lengths.
Push-on mounting.

**Page 29**

**Label Sleeves KT-B
(sold by the metre)**

Soft sleeves to be cut to length.
Push-on mounting.           **Page 31**

**Label sleeves KTH halogen free**

Halogen-free sleeves in various lengths.
Push-on mounting.

**Page 32**

# Overview label sleeves / label holders

### Label Sleeves KTH/Q

Halogen-free, self-extinguishing sleeves in various lengths.
Push-on mounting.                    **Page 34**

### Label sleeves KTH/Q (sold by the metre)

Halogen-free, self-extinguishing sleeves to be cut to length. Push-on mounting.
**Page 36**

### KM Label holder

Standard sleeves in various lengths.
Cable tie mounting.
**Page 37**

### KM Label holder sold be the meter

Standard sleeves to be cut to length.
Cable tie mounting.            **Page 38**

### Label holder KM-B

Soft sleeves in various lengths.
Cable tie mounting.
**Page 39**

### KMH label holder

Halogen-free sleeves in various lengths.
Cable tie mounting.
**Page 40**

### KMH/Q label holder

Halogen-free, self-extinguishing sleeves in various lengths.
Cable tie mounting.            **Page 41**

### Sealing plug KM

Protects the label holder against coolants, lubricants and cleaning agents.
**Page 42**

### ASI-Snap label holder

Mounting clip for laying the ASI bus cable and to held one KM4/.. label holder.
**Page 43**
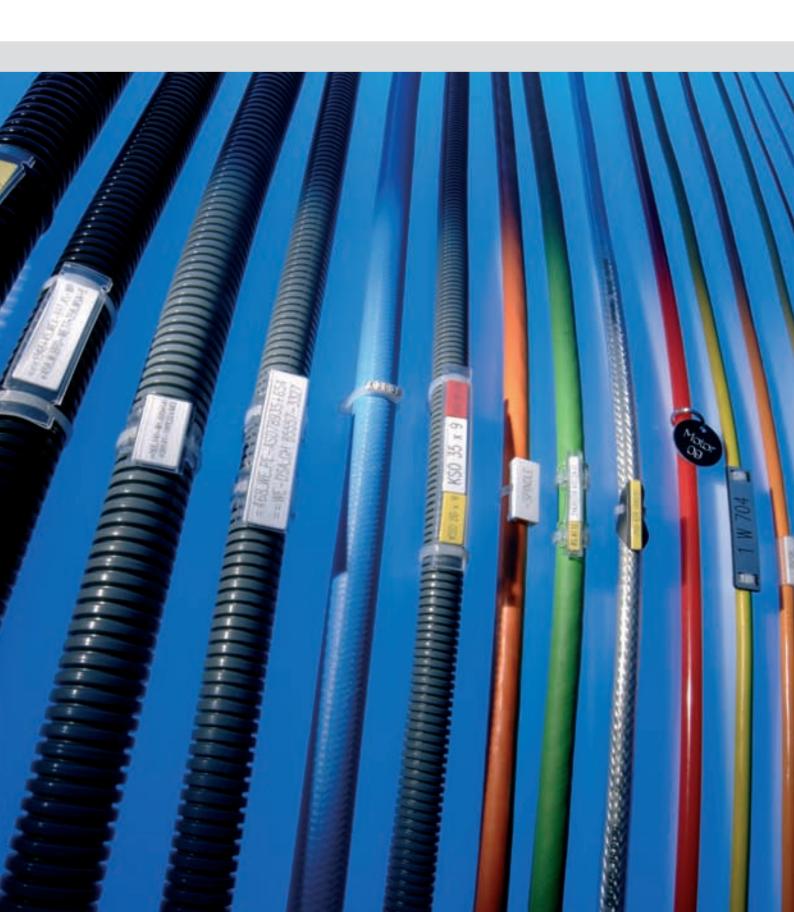
### KTN label holder

Label holder for retrofitting.

**Page 44**

# Labelling of single wires, cables and conduits

# Overview of labels

## BK labels

Pre-inscribed labels for assembly or minor inscription volumes.

**Page 45**

## KS Label plate (single-line)

Available in various lengths and colours. Various holding adapters to allow universal application.

**Page 48**

## KS Label plate (divisible)

Available in various lengths and colours. Arranged for convenient overview of objectives and counter-objectives.

**Page 50**

## KS label plate (multi-line)

For multi-line inscription. Various holding adapters to allow universal application.

**Page 51**

## KSO label plate

For multi-line inscription. Various holding adapters to allow universal application.

**Page 52**

## KDE label plate

Label plates for direct labelling of single wires.

**Page 53**

## KSE label plate

Label plates for direct labelling of single wires.

**Page 54**

## KSN label plate

Labels for post-installation labelling of single wires.

**Page 55**

## BS label plate

For multi-line cable inscription. The labels are installed using cable ties.

**Page 56**

## ESL label plate

Self-laminating labels on an A4 sheet for cable labelling.

**Page 57**

## Engraving material

Label plates made of two or more layer plastic or aluminium. Available in many sizes and colours.

**Page 58**

# Labelling of single wires, cables and conduits

**Holder: KT / Label: KS**

**Holder: KT4..B / Label: KS**

**Holder: KTH / Label: KS**

**Holder: KM3 / Label: KS**

**Holder: KM4 / Label: KS**

**Holder: KM4..B / Label: KS**

**Holder: KM9..B / Label: KSO**

**Holder: KM15 / Label: KS**

**Holder: KMH9 / Label: KS**

**Holder: BS1 / Label: Paper**

**Holder: BS2 / Label: KS**

**Holder: BS3 / Label: BS5**

# Combinations of label holders and labels in application

**Holder: KTH/Q / Label: KS**



**Holder: – / Label: KDE**



**Holder: – / Label: KSE**



**Holder: KMH4 / Label: KS**



**Holder: KMH/Q / Label: KS**



**Holder: KM9 / Label: KSO**



**Holder: – / Label: BS6**



**Holder: – / Label: BS5**



**Holder: KTN / Label: KS**



**Holder: – / Label: KSN**



**Holder: BS9+10 / Label: KSS**



**Holder: – / Label: ESL**

# Labelling of single wires, cables and conduits

## Selection table

The selection table is organised as a decision tree with the following rows: Installation method → Method of labelling → Direction of fastener → Inscription → Material properties → Fire classification according to UL carrier/plate → Product approvals → Specific features → Number of characters (font size 24) → Type of label holder / Type of label plate → Pages.

| Type of label holder / plate | Installation method | Method of labelling | Direction of fastener | Inscription | Material properties | Fire classification (UL carrier/plate) | Specific features | No. of characters (font size 24) | Pages |
|---|---|---|---|---|---|---|---|---|---|
| KT / KS | Push-on sleeve | Label with sleeve | Lengthways along cable | Single-line | — | VO / VO | — | 16 | Pages 26 / 48 |
| KT4..B / KS | Push-on sleeve | Label with sleeve | Lengthways along cable | Single-line | Halogen-free | VO / VO | — | 16 | Pages 29 / 48 |
| KTH / KS | Push-on sleeve | Label with sleeve | Lengthways along cable | Single-line | Halogen-free | HB / VO | — | 16 | Pages 32 / 48 |
| KTH / Q · KS | Push-on sleeve | Label with sleeve | Lengthways along cable | Single-line | — | VO / VO | High packing density | 16 | Pages 34 / 48 |
| — / KDE | Push-on sleeve | Direct | Lengthways along cable | Single-line | Halogen-free | – / VO | — | 8 | Page – / 53 |
| — / KSE | Push-on sleeve | Direct | Lengthways along cable | Single-line | Halogen-free | – / VO | — | 10 | Page – / 54 |
| KM3 / KS | Cable ties | Label with sleeve | Across cable | Single-line | — | VO / VO | Small printable area | 6 | Pages 37 / 48 |
| KM4 / KS | Cable ties | Label with sleeve | Lengthways along cable | Single-line | — | VO / VO | — | 12 | Pages 37 / 48 |
| KM4..B / KS | Cable ties | Label with sleeve | Lengthways along cable | Single-line | — | VO / VO | — | 12 | Pages 39 / 48 |
| KMH4 / KS | Cable ties | Label with sleeve | Lengthways along cable | Single-line | Halogen-free | HB / VO | — | 12 | Pages 40 / 48 |
| KMH / Q · KS | Cable ties | Label with sleeve | Lengthways along cable | Single-line | — | VO / VO | — | 12 | Pages 41 / 48 |
| KM9 / KSO | Cable ties | Label with sleeve | Lengthways along cable | Multi-line | — | VO / VO | Large printable area | 76 | Pages 37 / 52 |
| KM9..B / KSO | Cable ties | Label with sleeve | Lengthways along cable | Multi-line | — | VO / VO | Large printable area | 76 | Pages 39 / 52 |
| KM15 / KS | Cable ties | Label with sleeve | Lengthways along cable | Multi-line | — | VO / VO | — | 111 | Pages 37 / 48 |
| KMH9 / KS | Cable ties | Label with sleeve | Lengthways along cable | Multi-line | Halogen-free | HB / VO | — | 76 | Pages 40 / 48 |
| — / BS6 | Cable ties | Direct | Lengthways along and across cable | Multi-line | Halogen-free | – / VO | — | 45 | Page – / 56 |
| — / BS5 | Cable ties | Direct | Lengthways along cable | Multi-line | Halogen-free | – / VO | — | 45 | Page – / 56 |
| KTN / KS | Self-clamping | Label and sleeve | Lengthways along cable | Single-line | Halogen-free | HB / VO | — | 12 | Pages 44 / 48 |
| BS1 / Paper | Self-clamping | Direct | Across cable | Multi-line | — | VO / – | Base closed after assembly | 45 | Pages 124 / 124 |
| BS2 / KS | Self-clamping | Direct | Lengthways along cable | Single-line | — | VO / VO | Base closed after assembly | 12 | Pages 124 / 48 |
| — / KSN | Self-clamping | Direct | Lengthways along cable | Single-line | — | – / VO | Additional loss prevention | 7 | Page – / 55 |
| BS9+10 / KSS | Self-clamping | Direct | Across cable | Multi-line | Halogen-free | VO / VO | Spring-loaded clamping base | 22 | Pages 124 / 105 |
| BS4 / — | Self-clamping | Direct | Across cable | Multi-line | — | VO / VO | Base closed after assembly | 45 | Page 124 / – |
| — / ESL | Adhesive | Direct | Lengthways along and across cable | Multi-line | — | – / VO | Self-laminating | 261 | Page – / 57 |

# Labelling of single wires, cables and conduits

## Assignment table

**Nominal diameter AWG:** 26 24 22 20 18 16  14  12  10  8  6  4  2  1  1/0  2/0  3/0  4/0

**Nominal diameter in mm² H05/07Z-U:** 0,5 | 0,75 | 1 | 1,5 | 2,5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 | 500

**Nominal diameter in mm² H05/07V-K:** 0,5 | 0,75 | 1 | 1,5 | 2,5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 150 | 185 | 240

**Core diameter in mm:** 0 | 0,5 | 1,0 | 1,5 | 2,0 | 2,5 | 3,0 | 3,5 | 4,0 | 4,5 | 5,0 | 5,5 | 6,0 | 6,5 | 7,0 | 7,5 | 8,0 | 8,5 | 9,0 | 9,5 | 10,0 | 11,0 | 12,0 | 13,0 | 14,0 | 15,0 | 16,0 | 17,0 | 18,0 | 19,0 | 20,0 | 21,0 | 22,0 | 23,0 | 24,0 | 25,0 | 26,0 | 27,0 | 28,0 | 29,0 | 30,0 | 35,0 | >35,0

### KT / KTB
KT 0 | KT 1 | KT 2 | KT 3 | KT 4 | KT 5 | KT 6

### KTH
KTH 0 | KTH 1 | KTH 1.5 | KTH 2 | KTH 3 | KTH 4 | KTH 5

### KTH / Q
KTH/Q 0 | KTH/Q 1 | KTH/Q 1.5 | KTH/Q 2 | KTH/Q 3 | KTH/Q 4 | KTH/Q 5 | KTH/Q 6 | KTH/Q 6.5 | KTH/Q 7 | KTH/Q 8

### KTN
KTN 1 | KTN 2 | KTN 3 | KTN 4 | KTN 5

### KDE
KDE 1 / KDE 11 | KDE 2 / KDE 21

### KSE
KSE 4/10 - 0.75 | KSE 4/10 - 1.5 | KSE 4/18 - 1.5

### KSN
KSN A | KSN B | KSN C

### BS 9 / BS 10
BS 9 | BS 10

### ESL
ESL 20 | ESL 35 | ESL 56 | ESL 93 | ESL 140

### KM / KMH KMH/Q
Depends on length of cable tie (cable tie width max. 3 mm)
KM4 / KMH 4 / KMH/Q 4 | KM 9 / KMH 79 | KM 15

### BS 5 / BS 6
Depends on length of cable tie (cable tie width max. 3 mm)
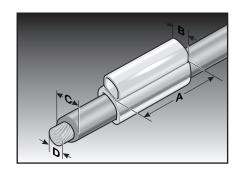
## Label sleeves KT (standard sleeve)

-40 to 60 °C

PVC

V0

Standard label sleeve

High-quality, fully transparent label sleeves for labelling wires, cables and conduits. They hold the *idents* (BK) and the ACS labels type KS or DM.
• Application range from 0.22 mm² to 120 mm² is covered through 7 size variants
• The sleeves come in different lengths
The special KT 2/20x9 or KT 2/35x9 sleeves are for multi-line single wire labelling. They hold the ACS labels type KSO or DM 9...







| Type | Order no. | Application range from - to mm | Core cross section * from - to mm² | for label plate | No. idents BK23/BK30 | Pack qty. |
|---|---|---|---|---|---|---|
| **Sleeve length 12 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KT 0/12 | 86201210 | 1.3–2.0 | 0.22–0.5 | KS 4/12; DM 4... | 5/4 | 2000 |
| KT 1/12 | 86201212 | 1.8–2.5 | 0.5–1.0 | KS 4/12; DM 4... | 5/4 | 2000 |
| KT 2/12 | 86201214 | 2.5–4.0 | 0.75–2.5 | KS 4/12; DM 4... | 5/4 | 2000 |
| KT 3/12 | 86201216 | 4.0–6.5 | 2.5–6.0 | KS 4/12; DM 4... | 5/4 | 1000 |
| KT 4/12 | 86201218 | 6.0–10.0 | 10.0–25.0 | KS 4/12; DM 4... | 5/4 | 1000 |
| KT 5/12 | 86201220 | 9.0–15.0 | 25.0–50.0 | KS 4/12; DM 4... | 5/4 | 1000 |
| KT 6/12 | 86201222 | 15.0–23.0 | 50.0–120.0 | KS 4/12; DM 4... | 5/4 | 500 |
| **Sleeve length 18 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KT 0/18 | 86201810 | 1.3–2.0 | 0.22–0.5 | KS 4/18; DM 4... | 7/6 | 2000 |
| KT 1/18 | 86201812 | 1.8–2.5 | 0.5–1.0 | KS 4/18; DM 4... | 7/6 | 2000 |
| KT 2/18 | 86201814 | 2.5–4.0 | 0.75–2.5 | KS 4/18; DM 4... | 7/6 | 2000 |
| KT 3/18 | 86201816 | 4.0–6.5 | 2.5–6.0 | KS 4/18; DM 4... | 7/6 | 1000 |
| KT 4/18 | 86201818 | 6.0–10.0 | 10.0–25.0 | KS 4/18; DM 4... | 7/6 | 1000 |
| KT 5/18 | 86201820 | 9.0–15.0 | 25.0–50.0 | KS 4/18; DM 4... | 7/6 | 750 |
| KT 6/18 | 86201822 | 15.0–23.0 | 50.0–120.0 | KS 4/18; DM 4... | 7/6 | 300 |
| **Sleeve length 23 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KT 0/23 | 86202310 | 1.3–2.0 | 0.22–0.5 | KS 4/23; DM 4... | 10/7 | 2000 |
| KT 1/23 | 86202312 | 1.8–2.5 | 0.5–1.0 | KS 4/23; DM 4... | 10/7 | 2000 |
| KT 2/23 | 86202314 | 2.5–4.0 | 0.75–2.5 | KS 4/23; DM 4... | 10/7 | 1000 |
| KT 3/23 | 86202316 | 4.0–6.5 | 2.5–6.0 | KS 4/23; DM 4... | 10/7 | 1000 |
| KT 4/23 | 86202318 | 6.0–10.0 | 10.0–25.0 | KS 4/23; DM 4... | 10/7 | 1000 |
| KT 5/23 | 86202320 | 9.0–15.0 | 25.0–50.0 | KS 4/23; DM 4... | 10/7 | 500 |
| KT 6/23 | 86202322 | 15.0–23.0 | 50.0–120.0 | KS 4/23; DM 4... | 10/7 | 250 |

# Label sleeves KT (standard sleeve)

| Type | Order no. | Application range from - to mm | Core cross section * from - to mm² | for label plate | No. idents BK23/BK30 | Pack qty. |
|------|-----------|-------------------------------|-----------------------------------|-----------------|---------------------|-----------|
| **Sleeve length 30 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KT 0/30 | 86203010 | 1.3–2.0 | 0.22–0.5 | KS 4/30; DM 4... | 13/10 | 1000 |
| KT 1/30 | 86203012 | 1.8–2.5 | 0.5–1.0 | KS 4/30; DM 4... | 13/10 | 1500 |
| KT 2/30 | 86203014 | 2.5–4.0 | 0.75–2.5 | KS 4/30; DM 4... | 13/10 | 1000 |
| KT 3/30 | 86203016 | 4.0–6.5 | 2.5–6.0 | KS 4/30; DM 4... | 13/10 | 1000 |
| KT 4/30 | 86203018 | 6.0–10.0 | 10.0–25.0 | KS 4/30; DM 4... | 13/10 | 500 |
| KT 5/30 | 86203020 | 9.0–15.0 | 25.0–50.0 | KS 4/30; DM 4... | 13/10 | 500 |
| KT 6/30 | 86203022 | 15.0–23.0 | 50.0–120.0 | KS 4/30; DM 4... | 13/10 | 200 |
| **Multi-line inscription** | | | | | | |
| **Sleeve length 20 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KT 2/20x9 | 86202050 | 2.5–4.0 | 0.75–2.5 | KSO 20x9; DM 9... | - | 1000 |
| **Sleeve length 35 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KT 2/35x9 | 86203550 | 2.5–4.0 | 0.75–2.5 | KSO 35x9; DM 9... | - | 500 |

* Single wire type H05/07V-K

## KT label sleeves (sold by the metre)

-40 to 60 °C

PVC

V0

Standard label sleeves are sold per metre

High-quality, fully transparent label sleeves for labelling wires, cables and conduits. They hold the idents (BK) and the ACS labels type KS or DM.
- Application range from 0.22 mm² to 6 mm² is covered through 4 size variants
- The sleeves come in different lengths.
- Sleeve length as required.







| Type | Order no. | Application range from - to mm | Core cross section * from - to mm² | for label plate | Pack m (A) |
|---|---|---|---|---|---|
| | | (C) | (D) | (B) | |
| KT 0 sold by the metre | 8620101000 | 1.3–2.0 | 0.22–0.5 | KS 4/x; DM 4... | 50 |
| KT 1 sold by the metre | 8620101200 | 1.8–2.5 | 0.5–1.0 | KS 4/x; DM 4... | 50 |
| KT 2 sold by the metre | 8620101400 | 2.5–4.0 | 0.75–2.5 | KS 4/x; DM 4... | 50 |
| KT 3 sold by the metre | 8620101600 | 4.0–6.5 | 2.5–6.0 | KS 4/x; DM 4... | 50 |

# KT-B label sleeves

-40 to 60 °C

PVC

V0
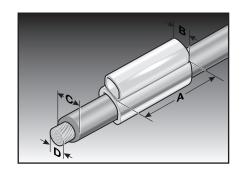
Standard flexible label sleeve

High-quality, blue-coloured flexible label sleeves for labelling wires, cables and conduits. They hold the idents (BK) and the ACS labels type KS or DM.
- Application range from 0.22 mm² to 120 mm² is covered through 7 size variants
- The sleeves come in different lengths

| Type | Order no. | Application range from - to mm | Core cross section * from - to mm² | for label plate | No. idents BK23/BK30 | Pack qty. |
|------|-----------|-------------------------------|-----------------------------------|-----------------|----------------------|-----------|
| | | (C) | (D) | (B) | (B) | |
| **Sleeve length 12 mm (A)** | | (C) | (D) | (B) | (B) | |
| KT 0/12B | 86201260 | 1.3–2.0 | 0.22–0.5 | KS 4/12; DM 4... | 5/4 | 2000 |
| KT 1/12B | 86201262 | 1.8–2.5 | 0.5–1.0 | KS 4/12; DM 4... | 5/4 | 2000 |
| KT 2/12B | 86201264 | 2.5–4.0 | 0.75–2.5 | KS 4/12; DM 4... | 5/4 | 2000 |
| KT 3/12B | 86201266 | 4.0–6.5 | 2.5–6.0 | KS 4/12; DM 4... | 5/4 | 1000 |
| KT 4/12B | 86201268 | 6.0–10.0 | 10.0–25.0 | KS 4/12; DM 4... | 5/4 | 1000 |
| KT 5/12B | 86201270 | 9.0–15.0 | 25.0–50.0 | KS 4/12; DM 4... | 5/4 | 1000 |
| KT 6/12B | 86201272 | 15.0–23.0 | 50.0–120.0 | KS 4/12; DM 4... | 5/4 | 500 |
| | | | | | | |
| **Sleeve length 18 mm (A)** | | (C) | (D) | (B) | (B) | |
| KT 0/18B | 86201860 | 1.3–2.0 | 0.22–0.5 | KS 4/18; DM 4... | 7/6 | 2000 |
| KT 1/18B | 86201862 | 1.8–2.5 | 0.5–1.0 | KS 4/18; DM 4... | 7/6 | 2000 |
| KT 2/18B | 86201864 | 2.5–4.0 | 0.75–2.5 | KS 4/18; DM 4... | 7/6 | 2000 |
| KT 3/18B | 86201866 | 4.0–6.5 | 2.5–6.0 | KS 4/18; DM 4... | 7/6 | 1000 |
| KT 4/18B | 86201868 | 6.0–10.0 | 10.0–25.0 | KS 4/18; DM 4... | 7/6 | 1000 |
| KT 5/18B | 86201870 | 9.0–15.0 | 25.0–50.0 | KS 4/18; DM 4... | 7/6 | 500 |
| KT 6/18B | 86201872 | 15.0–23.0 | 50.0–120.0 | KS 4/18; DM 4... | 7/6 | 500 |
| | | | | | | |
| **Sleeve length 23 mm (A)** | | (C) | (D) | (B) | (B) | |
| KT 0/23B | 86202360 | 1.3–2.0 | 0.22–0.5 | KS 4/23; DM 4... | 10/7 | 2000 |
| KT 1/23B | 86202362 | 1.8–2.5 | 0.5–1.0 | KS 4/23; DM 4... | 10/7 | 2000 |
| KT 2/23B | 86202364 | 2.5–4.0 | 0.75–2.5 | KS 4/23; DM 4... | 10/7 | 1000 |
| KT 3/23B | 86202366 | 4.0–6.5 | 2.5–6.0 | KS 4/23; DM 4... | 10/7 | 1000 |
| KT 4/23B | 86202368 | 6.0–10.0 | 10.0–25.0 | KS 4/23; DM 4... | 10/7 | 1000 |
| KT 5/23B | 86202370 | 9.0–15.0 | 25.0–50.0 | KS 4/23; DM 4... | 10/7 | 500 |
| KT 6/23B | 86202372 | 15.0–23.0 | 50.0–120.0 | KS 4/23; DM 4... | 10/7 | 250 |

## KT-B label sleeves

| Type | Order no. | Application range from - to mm | Core cross section * from - to mm² | for label plate | No. idents BK23/BK30 | Pack qty. |
|---|---|---|---|---|---|---|
| **Sleeve length 30 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KT 0/30B | 86203060 | 1.3–2.0 | 0.22–0.5 | KS 4/30; DM 4... | 13/10 | 1000 |
| KT 1/30B | 86203062 | 1.8–2.5 | 0.5–1.0 | KS 4/30; DM 4... | 13/10 | 1500 |
| KT 2/30B | 86203064 | 2.5–4.0 | 0.75–2.5 | KS 4/30; DM 4... | 13/10 | 1000 |
| KT 3/30B | 86203066 | 4.0–6.5 | 2.5–6.0 | KS 4/30; DM 4... | 13/10 | 1000 |
| KT 4/30B | 86203068 | 6.0–10.0 | 10.0–25.0 | KS 4/30; DM 4... | 13/10 | 500 |
| KT 5/30B | 86203070 | 9.0–15.0 | 25.0–50.0 | KS 4/30; DM 4... | 13/10 | 250 |
| KT 6/30B | 86203072 | 15.0–23.0 | 50.0–120.0 | KS 4/30; DM 4... | 13/10 | 250 |
| | | | | | | |
| **Sleeve length 70 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KT 0/70B | 86207060 | 1.3–2.0 | 0.22–0.5 | KS 4/70; DM 4... | 29/10 | 500 |
| KT 1/70B | 86207062 | 1.8–2.5 | 0.5–1.0 | KS 4/70; DM 4... | 29/10 | 500 |
| KT 2/70B | 86207064 | 2.5–4.0 | 0.75–2.5 | KS 4/70; DM 4... | 29/10 | 500 |
| KT 3/70B | 86207066 | 4.0–6.5 | 2.5–6.0 | KS 4/70; DM 4... | 29/10 | 500 |
| KT 4/70B | 86207068 | 6.0–10.0 | 10.0–25.0 | KS 4/70; DM 4... | 29/10 | 250 |
| KT 5/70B | 86207070 | 9.0–15.0 | 25.0–50.0 | KS 4/70; DM 4... | 29/10 | 125 |
| KT 6/70B | 86207072 | 15.0–23.0 | 50.0–120.0 | KS 4/70; DM 4... | 29/10 | 100 |
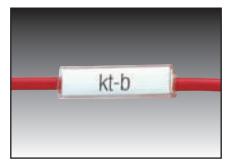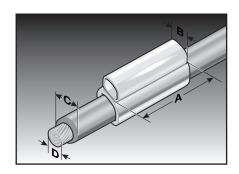
* Single wire type H05/07V-K

# KT-B label sleeves (sold by the metre)

-40 to 60 °C

PVC

V0

Standard flexible label sleeve

High-quality, blue-coloured flexible label sleeves for labelling wires, cables and conduits. They hold the idents (BK) and the ACS labels type KS or DM.
- Application range from 0.22 mm² to 6 mm² is covered through 4 size variants
- Sleeve length as required.





| Type | Order no. | Application range from - to mm | Core cross section * from - to mm² | for label plate | Pack m |
|---|---|---|---|---|---|
| | | (C) | (D) | (B) | (A) |
| KT 0B sold by the metre | 86201060 | 1.3–2.0 | 0.22–0.5 | KS 4/x; DM 4... | 200 |
| KT 1B sold by the metre | 86201062 | 1.8–2.5 | 0.5–1.0 | KS 4/x; DM 4... | 200 |
| KT 2B sold by the metre | 86201064 | 2.5–4.0 | 0.75–2.5 | KS 4/x; DM 4... | 200 |
| KT 3B sold by the metre | 86201066 | 4.0–6.5 | 2.5–6.0 | KS 4/x; DM 4... | 200 |

## KTH label sleeves (halogen-free)

-40 to 80 °C

EVA

HB
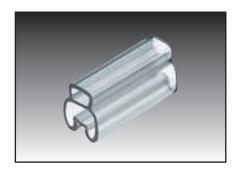
Halogen-free
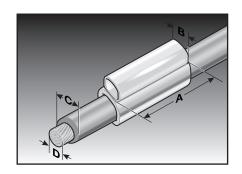
High-quality, fully transparent, halogen-free label sleeves for labelling wires, cables and conduits. They hold the idents (BK) and the ACS labels type KS or DM.
7 versions are available covering the entire core cross section range from 0.22 mm² to 50 mm².
The sleeves come in different lengths.

| Type | Order no. | Application range from - to mm | Core cross section * from - to mm² | for label plate | No. idents BK23/BK30 | Pack qty. |
|---|---|---|---|---|---|---|
| **Sleeve length 12 mm (A)** | | (C) | (D) | (B) | (B) | |
| KTH 0/12 | 86221210 | 1.3–2.0 | < 0.5 | KS 4/12; DM 4… | 5/4 | 2000 |
| KTH 1/12 | 86221212 | 1.8–2.3 | 0.5 | KS 4/12; DM 4… | 5/4 | 2000 |
| KTH 1.5/12 | 86221213 | 2.1–2.7 | 0.5–0.75 | KS 4/18; DM 4… | 5/4 | 2000 |
| KTH 2/12 | 86221214 | 2.5–3.3 | 0.75–2.5 | KS 4/12; DM 4… | 5/4 | 2000 |
| KTH 3/12 | 86221216 | 3.5–6.0 | 2.5–6.0 | KS 4/12; DM 4… | 5/4 | 1000 |
| KTH 4/12 | 86221218 | 6.0–9.0 | 10.0–16.0 | KS 4/12; DM 4… | 5/4 | 1000 |
| | | | | | | |
| **Sleeve length 18 mm (A)** | | (C) | (D) | (B) | (B) | |
| KTH 0/18 | 86221810 | 1.3–2.0 | < 0.5 | KS 4/18; DM 4... | 7/6 | 2000 |
| KTH 1/18 | 86221812 | 1.8–2.3 | 0.5 | KS 4/18; DM 4... | 7/6 | 2000 |
| KTH 1.5/18 | 86221813 | 2.1–2.7 | 0.5–0.75 | KS 4/18; DM 4... | 7/6 | 2000 |
| KTH 2/18 | 86221814 | 2.5–3.3 | 0.75–2.5 | KS 4/18; DM 4... | 7/6 | 2000 |
| KTH 3/18 | 86221816 | 3.5–6.0 | 2.5–6.0 | KS 4/18; DM 4... | 7/6 | 1000 |
| KTH 4/18 | 86221818 | 6.0–9.0 | 10.0–16.0 | KS 4/18; DM 4... | 7/6 | 1000 |
| KTH 5/18 | 86221820 | 9.0–14.0 | 25.0–35.0 | KS 4/18; DM 4... | 7/6 | 500 |
| | | | | | | |
| **Sleeve length 23 mm (A)** | | (C) | (D) | (B) | (B) | |
| KTH 0/23 | 86222310 | 1.3–2.0 | < 0.5 | KS 4/23; DM 4... | 10/7 | 1000 |
| KTH 1/23 | 86222312 | 1.8–2.3 | 0.5 | KS 4/23; DM 4... | 10/7 | 2000 |
| KTH 2/23 | 86222314 | 2.5–3.3 | 0.75–2.5 | KS 4/23; DM 4... | 10/7 | 1000 |
| KTH 3/23 | 86222316 | 3.5–6.0 | 2.5–6.0 | KS 4/23; DM 4... | 10/7 | 1000 |
| KTH 4/23 | 86222318 | 6.0–9.0 | 10.0–16.0 | KS 4/23; DM 4... | 10/7 | 1000 |

# KTH label sleeves (halogen-free)

| Type | Order no. | Application range from - to mm | Core cross section * from - to mm² | for label plate | No. idents BK23/BK30 | Pack qty. |
|------|-----------|-------------------------------|-----------------------------------|-----------------|---------------------|-----------|
| **Sleeve length 30 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KTH 3/30 | 86222416 | 3.5–6.0 | 2.5–6.0 | KS 4/30; DM 4... | 13/10 | 1000 |
| KTH 4/30 | 86222418 | 6.0–9.0 | 10.0–16.0 | KS 4/30; DM 4... | 13/10 | 1000 |

Supplied by the metre in rolls on request

* Single wire type H05/07Z-U

## KTH/Q label sleeves (halogen-free / high packing density)

-40 to 160 °C

TPU

V0

Halogen free, special test conforming to
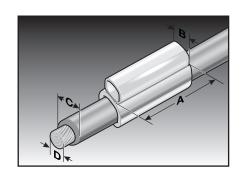EN 50155 + 61373 - VDE 0155 Part 106
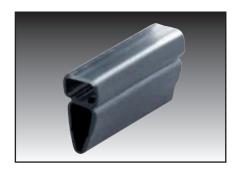
High-quality, halogen-free two-part label sleeve for extreme demands. The geometry of the sleeve only causes a minimum increase in diameter of the cable. The trapezoidal design makes for rapid and simple installation. It serves to hold the idents (BK) and the ACS labels type KS or DM.
11 versions are available covering the entire core cross section range from 0.14 mm² to 240 mm².
The sleeves come in different lengths.

| Type | Order no. | Application range from - to mm | Core cross section * from - to mm² | for label plate | No. idents BK23/BK30 | Pack qty. |
|---|---|---|---|---|---|---|
| **Sleeve length 12 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KTH/Q 0/12 | 86222808 | 0.8–1.5 | < 0.5 | KS 4/12; DM 4... | 5/4 | 2000 |
| KTH/Q 1/12 | 86222810 | 1.5–2.3 | 0.5 | KS 4/12; DM 4... | 5/4 | 2000 |
| KTH/Q 1.5/12 | 86222811 | 1.6–3.2 | 0.5–0.75 | KS 4/12; DM 4... | 5/4 | 2000 |
| KTH/Q 2/12 | 86222812 | 2.2–4.5 | 0.75–2.5 | KS 4/12; DM 4... | 5/4 | 2000 |
| KTH/Q 3/12 | 86222814 | 3.7–6.2 | 2.5–6.0 | KS 4/12; DM 4... | 5/4 | 1000 |
| KTH/Q 4/12 | 86222816 | 4.8–7.5 | 10.0–16.0 | KS 4/12; DM 4... | 5/4 | 1000 |
| KTH/Q 5/12 | 86222818 | 8.0–12.0 | 25.0–35.0 | KS 4/12; DM 4... | 5/4 | 500 |
| KTH/Q 6/12 | 86222820 | 10.0–14 | 50.0 | KS 4/12; DM 4... | 5/4 | 500 |
| KTH/Q 6.5/12 | 86222821 | 12.0–18 | 70.0–95.0 | KS 4/12; DM 4... | 5/4 | 500 |
| KTH/Q 7/12 | 86222822 | 18.0–24.0 | 120.0–150.0 | KS 4/12; DM 4... | 5/4 | 250 |
| KTH/Q 8/12 | 86222824 | 23.0–30 | 185.0–240.0 | KS 4/12; DM 4... | 5/4 | 250 |
| | | | | | | |
| **Sleeve length 18 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KTH/Q 0/18 | 86223008 | 0.8–1.5 | < 0.5 | KS 4/18; DM 4... | 7/6 | 2000 |
| KTH/Q 1/18 | 86223010 | 1.5–2.3 | 0.5 | KS 4/18; DM 4... | 7/6 | 2000 |
| KTH/Q 1.5/18 | 86223011 | 1.6–3.2 | 0.5–0.75 | KS 4/18; DM 4... | 7/6 | 2000 |
| KTH/Q 2/18 | 86223012 | 2.2–4.5 | 0.75–2.5 | KS 4/18; DM 4... | 7/6 | 2000 |
| KTH/Q 3/18 | 86223014 | 3.7–6.2 | 2.5–6.0 | KS 4/18; DM 4... | 7/6 | 1000 |
| KTH/Q 4/18 | 86223016 | 4.8–7.5 | 10.0–16.0 | KS 4/18; DM 4... | 7/6 | 1000 |
| KTH/Q 5/18 | 86223018 | 8.0–12.0 | 25.0–35.0 | KS 4/18; DM 4... | 7/6 | 500 |
| KTH/Q 6/18 | 86223020 | 10.0–14 | 50.0 | KS 4/18; DM 4... | 7/6 | 500 |
| KTH/Q 6.5/18 | 86223021 | 12.0–18 | 70.0–95.0 | KS 4/18; DM 4... | 7/6 | 500 |
| KTH/Q 7/18 | 86223022 | 18.0–24.0 | 120.0–150.0 | KS 4/18; DM 4... | 7/6 | 250 |
| KTH/Q 8/18 | 86223024 | 23.0–30 | 185.0–240.0 | KS 4/18; DM 4... | 7/6 | 250 |

# KTH/Q label sleeves (halogen-free / high packing density)

| Type | Order no. | Application range from - to mm | Core cross section * from - to mm² | for label plate | No. idents BK23/BK30 | Pack qty. |
|---|---|---|---|---|---|---|
| **Sleeve length 23 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KTH/Q 0/23 | 86223208 | 0.8–1.5 | < 0.5 | KS 4/23; DM 4... | 10/7 | 2000 |
| KTH/Q 1/23 | 86223210 | 1.5–2.3 | 0.5 | KS 4/23; DM 4... | 10/7 | 2000 |
| KTH/Q 1.5/23 | 86223211 | 1.6–3.2 | 0.5–0.75 | KS 4/23; DM 4... | 10/7 | 2000 |
| KTH/Q 2/23 | 86223212 | 2.2–4.5 | 0.75–2.5 | KS 4/23; DM 4... | 10/7 | 2000 |
| KTH/Q 3/23 | 86223214 | 3.7–6.2 | 2.5–6.0 | KS 4/23; DM 4... | 10/7 | 1000 |
| KTH/Q 4/23 | 86223216 | 4.8–7.5 | 10.0–16.0 | KS 4/23; DM 4... | 10/7 | 1000 |
| KTH/Q 5/23 | 86223218 | 8.0–12.0 | 25.0–35.0 | KS 4/23; DM 4... | 10/7 | 500 |
| KTH/Q 6/23 | 86223220 | 10.0–14 | 50.0 | KS 4/23; DM 4... | 10/7 | 500 |
| KTH/Q 6.5/23 | 86223221 | 12.0–18 | 70.0–95.0 | KS 4/23; DM 4... | 10/7 | 500 |
| KTH/Q 7/23 | 86223222 | 18.0–24.0 | 120.0–150.0 | KS 4/23; DM 4... | 10/7 | 250 |
| KTH/Q 8/23 | 86223224 | 23.0–30.0 | 185.0–240.0 | KS 4/23; DM 4... | 10/7 | 250 |
| | | | | | | |
| **Sleeve length 30 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KTH/Q 0/30 | 86223408 | 0.8–1.5 | < 0.5 | KS 4/30; DM 4... | 13/10 | 2000 |
| KTH/Q 1/30 | 86223410 | 1.5–2.3 | 0.5 | KS 4/30; DM 4... | 13/10 | 2000 |
| KTH/Q 1.5/30 | 86223411 | 1.6–3.2 | 0.5–0.75 | KS 4/30; DM 4... | 13/10 | 2000 |
| KTH/Q 2/30 | 86223412 | 2.2–4.5 | 0.75–2.5 | KS 4/30; DM 4... | 13/10 | 2000 |
| KTH/Q 3/30 | 86223414 | 3.7–6.2 | 2.5–6.0 | KS 4/30; DM 4... | 13/10 | 1000 |
| KTH/Q 4/30 | 86223416 | 4.8–7.5 | 10.0–16.0 | KS 4/30; DM 4... | 13/10 | 1000 |
| KTH/Q 5/30 | 86223418 | 8.0–12.0 | 25.0–35.0 | KS 4/30; DM 4... | 13/10 | 500 |
| KTH/Q 6/30 | 86223420 | 10.0–14.0 | 50.0 | KS 4/30; DM 4... | 13/10 | 500 |
| KTH/Q 6.5/30 | 86223421 | 12.0–18.0 | 70.0–95.0 | KS 4/30; DM 4... | 13/10 | 500 |
| KTH/Q 7/30 | 86223422 | 18.0–24.0 | 120.0–150.0 | KS 4/30; DM 4... | 13/10 | 250 |
| KTH/Q 8/30 | 86223424 | 23.0–30.0 | 185.0–240.0 | KS 4/30; DM 4... | 13/10 | 200 |
| | | | | | | |
| **Sleeve length 30 mm released (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KTH/Q 1/30A | 86223482 | 1.5–2.3 | 0.5 | KS 4/30; DM 4... | 13/10 | 2000 |
| KTH/Q 2/30A | 86223484 | 2.2–4.5 | 0.75–2.5 | KS 4/30; DM 4... | 13/10 | 2000 |
| KTH/Q 3/30A | 86223486 | 3.7–5.9 | 2.5–6.0 | KS 4/30; DM 4... | 13/10 | 500 |

\* Single wire type H05/07Z-U

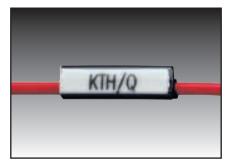## KTH/Q label sleeves (sold by the metre)

-40 to 160 °C

TPU

V0

Halogen free, special test conforming to
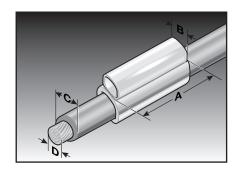EN 50155 + 61373 - VDE 0155 Part 106

High-quality, halogen-free two-part label sleeve for extreme demands. The geometry of the sleeve only causes a minimum increase in diameter of the cable. The trapezoidal design makes for rapid and simple installation. It serves to hold the idents (BK) and the ACS labels type KS or DM.
6 versions are available covering the entire core cross section range from 0.14 mm² to 50 mm².
• Sleeve length as required.

| Type | Order no. | Application range from - to mm | Core cross section * from - to mm² | for label plate | Pack m |
|---|---|---|---|---|---|
| | | (C) | (D) | (B) | (A) |
| KTH/Q 1 sold by the metre | 8622281000 | 1.5–2.3 | 0.25–0.5 | KS 4/x; DM 4... | 50 |
| KTH/Q 1.5 sold by the metre | 8622281100 | 1.6–3.2 | 0.25–1.5 | KS 4/x; DM 4... | 50 |
| KTH/Q 2 sold by the metre | 8622281200 | 2.2–4.5 | 0.5–4.0 | KS 4/x; DM 4... | 50 |
| KTH/Q 3 sold by the metre | 8622281400 | 3.7–6.2 | 2.5–6.0 | KS 4/x; DM 4... | 200 |
| KTH/Q 4 sold by the metre | 8622281600 | 4.8–7.5 | 6.0–16.0 | KS 4/x; DM 4... | 50 |
| KTH/Q 5 sold by the metre | 8622281800 | 8.0–12.0 | 16.0–35.0 | KS 4/x; DM 4... | 50 |
| KTH/Q 6 sold by the metre | 8622282000 | 10.0–14.0 | 35.0–50.0 | KS 4/x; DM 4... | 50 |

# KM label holder (standard holder)
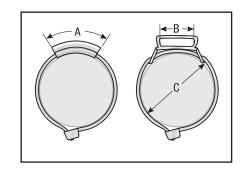
-40 to 60 °C

PVC

V0

Standard label holder

Label holder for wire, cable and conduit labels. They hold the idents (BK) and the ACS labels type KS, KSO or DM. The label holders are fixed in place with cable ties.

| Type | Order no. | length mm | Width mm | for label plate | Number of ident labels BK23/BK30 | Cable ties max. width of mm | Recommended min. diameter mm | Pack qty. |
|---|---|---|---|---|---|---|---|---|
| **Labelling across the cable/conduit** | | (A) | (B) | (C) | (C) | | (C) | |
| KM 3 | 86321018 | 16 | 4 | KS 4/12; DM 4... | 6/5 | 5 | 5 | 2000 |
| | | | | | | | | |
| **Labelling lengthways along the cable/conduit** | | (A) | (B) | (C) | (C) | | (C) | |
| KM 4/23 | 86321020 | 23 | 4 | KS 4/x; DM 4... | 10/7 | 5 | 5 | 1000 |
| KM 4/28 | 86321022 | 28 | 4 | KS 4/x; DM 4... | 12/9 | 5 | 5 | 1000 |
| KM 4/31 | 86321024 | 31 | 4 | KS 4/x; DM 4... | 13/10 | 5 | 5 | 1000 |
| KM 4/36 | 86321026 | 36 | 4 | KS 4/x; DM 4... | 15/12 | 5 | 5 | 1000 |
| KM 4/45 | 86321028 | 45 | 4 | KS 4/x; DM 4... | 19/15 | 5 | 5 | 1000 |
| | | | | | | | | |
| **Single-line and multi-line** | | (A) | (B) | (C) | (C) | | (C) | |
| KM 9/20 | 86321040 | 20 | 9 | KSO 20x9; DM 9... | - | 5 | 10 | 1000 |
| KM 9/35 | 86321042 | 35 | 9 | KSO 35x9; DM 9... | - | 5 | 10 | 500 |
| KM 15/27 | 86321056 | 27 | 15 | KS 15/27; DM 15... | - | 5 | 14 | 500 |
| KM 15/49 | 86321058 | 49 | 15 | KS 15/49; DM 15... | - | 5 | 14 | 250 |
| KM 15/67 | 86321060 | 67 | 15 | KS 15/67; DM 15... | - | 5 | 14 | 125 |
| | | | | | | | | |
| **Pre-assembled label holders** | | (A) | (B) | (C) | (C) | | (C) | |
| KKM 4/23 | 86321050 | 23 | 4 | KS 4/x; DM 4... | 10/7 | 5 | 5 | 250 |
| KM 4/23 fitted with cable tie KB 55 | | | | | | | | |
| KKM 9/20 | 86321052 | 20 | 9 | KSO 20x9; DM 9... | - | 5 | 10 | 250 |
| KM 9/20 fitted with cable tie KB 55 | | | | | | | | |

For correct size of cable tie KB see accessories

## KM label holder (standard holder, variable length)
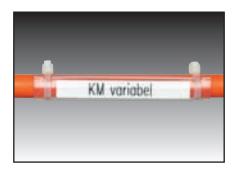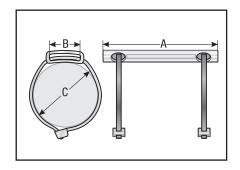
-40 to 60 °C

PVC

V0

Individual lengths

Individual label holder for wire, cable and conduit labels. They hold the ACS labels type KS, KSO or DM. The label holders are fixed in place with cable ties.

The auxiliary tool can be used to cut the label sleeve to convenient lengths for specific purposes. The tool can process materials KM 9 and KM 15 without resetting.

| Type | Order no. | length mm | for label plate | Cable ties max. width of mm | Recommended min. diameter mm | Pack qty. |
|---|---|---|---|---|---|---|
| **Labelling lengthways along the cable/conduit** | | (A) | (B) | | (C) | |
| Single-line and multi-line | | | | | | |
| Variable length | | | | | | |
| KM 9/10000 | 86321070 | 10000 | KSO 9/x; DM 9... | 5 | 5 | 1 |
| KM 15/10000 | 86321072 | 10000 | KS 15/x; DM 15... | 5 | 10 | 1 |
| | | | | | | |
| For correct size of cable tie KB see accessories | | | | | | |
| | | | | | | |
| | | | | | | |
| **Cutting and punching tool for KM x10000 and KM 15/10000** | | | | | | |
| Multi-purpose tool KM-T10 | 86392020 | | | | | 1 |
| Scope of delivery: - Pliers with table-top bracket / | | | | | | |
|                   - Adjustable length stop | | | | | | |
|                   - Spare knife with assembly tool | | | | | | |

# Label holder KM-B
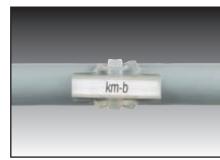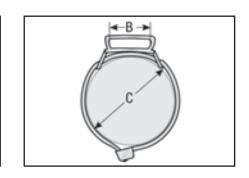
-40 to 60 °C

PVC

V0

Standard label holder

High-quality, blue-coloured flexible label holders for labelling wires, cables and conduits.
They hold the idents (BK) and the ACS labels type KS, KSO or DM.
The label holders are fixed in place with cable ties.



| Type | Order no. | length mm | for label plate | No. idents BK23/BK30 | Cable ties max. width of mm | Recommended min. diameter mm | Pack qty. |
|---|---|---|---|---|---|---|---|
| **Labelling lengthways along the cable/conduit** | | | (B) | (B) | | (C) | |
| | | | | | | | |
| **Single-line** | | | | | | | |
| KM 4/12B | 86321074 | 12 | KS4/12; DM 4... | 6/5 | 5 | 5 | 2000 |
| KM 4/18B | 86321075 | 18 | KS4/18; DM 4... | 7/6 | 5 | 5 | 2000 |
| KM 4/23B | 86321076 | 23 | KS4/23; DM 4... | 10/7 | 5 | 5 | 1000 |
| KM 4/30B | 86321077 | 30 | KS4/30; DM 4... | 13/10 | 5 | 5 | 1000 |
| | | | | | | | |
| **Single-line and multi-line** | | | | | | | |
| KM 9/20B | 86321080 | 20 | KS9/20; DM 9... | - | 5 | 10 | 1000 |
| KM 9/35B | 86321081 | 35 | KS9/35; DM 9... | - | 5 | 10 | 500 |
| KM 9/70B | 86321082 | 70 | KS9/70; DM 9... | - | 5 | 10 | 250 |

## KMH label holder (halogen-free)
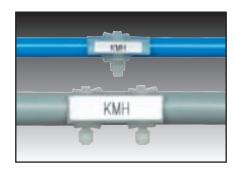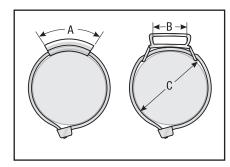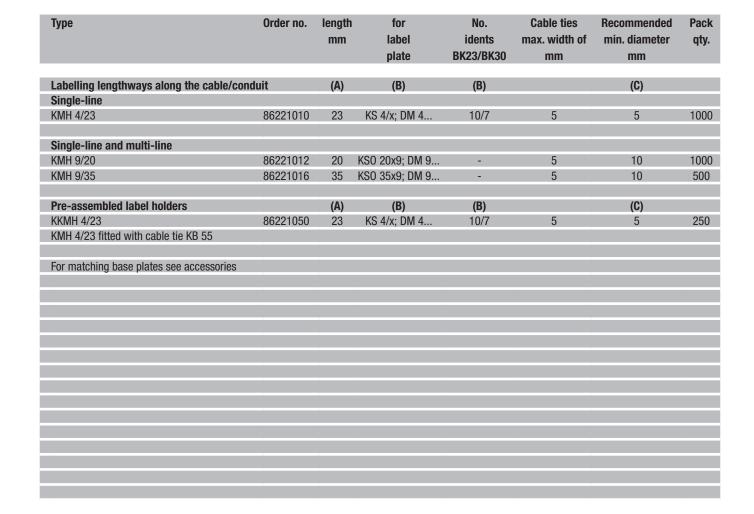
-40 to 60 °C

EVA

HB

Halogen-free

Halogen-free label holder for wire, cable and conduit labels. They hold the idents (BK) and the ACS labels type KS, KSO or DM.
The label holders are fixed in place with cable ties.

| Type | Order no. | length mm | for label plate | No. idents BK23/BK30 | Cable ties max. width of mm | Recommended min. diameter mm | Pack qty. |
|---|---|---|---|---|---|---|---|
| **Labelling lengthways along the cable/conduit** | | (A) | (B) | (B) | | (C) | |
| **Single-line** | | | | | | | |
| KMH 4/23 | 86221010 | 23 | KS 4/x; DM 4... | 10/7 | 5 | 5 | 1000 |
| | | | | | | | |
| **Single-line and multi-line** | | | | | | | |
| KMH 9/20 | 86221012 | 20 | KSO 20x9; DM 9... | - | 5 | 10 | 1000 |
| KMH 9/35 | 86221016 | 35 | KSO 35x9; DM 9... | - | 5 | 10 | 500 |
| | | | | | | | |
| **Pre-assembled label holders** | | (A) | (B) | (B) | | (C) | |
| KKMH 4/23 | 86221050 | 23 | KS 4/x; DM 4... | 10/7 | 5 | 5 | 250 |
| KMH 4/23 fitted with cable tie KB 55 | | | | | | | |

For matching base plates see accessories

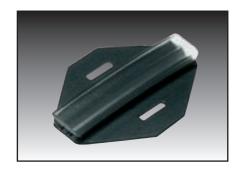# KMH/Q label holder (halogen-free / high packing density)
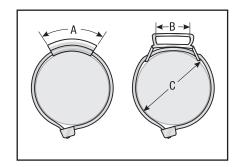
-40 to 160 °C

TPU

V0

Halogen-free

High-quality, halogen-free, two-part label sleeve for the most exacting requirements in the labelling of wires, cables and conduits. They hold the idents (BK) and the ACS labels type KS or DM.
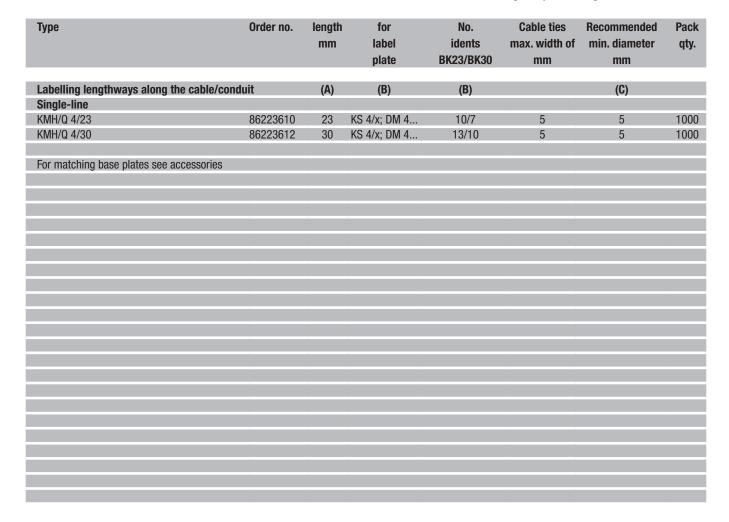The label holders are fixed in place with cable ties.
It matches the appearance of label sleeve KTH/Q.

Lengthways labelling

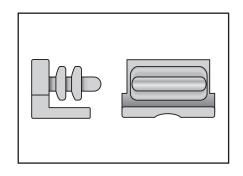| Type | Order no. | length mm | for label plate | No. idents BK23/BK30 | Cable ties max. width of mm | Recommended min. diameter mm | Pack qty. |
|---|---|---|---|---|---|---|---|
| **Labelling lengthways along the cable/conduit** | | (A) | (B) | (B) | | (C) | |
| **Single-line** | | | | | | | |
| KMH/Q 4/23 | 86223610 | 23 | KS 4/x; DM 4... | 10/7 | 5 | 5 | 1000 |
| KMH/Q 4/30 | 86223612 | 30 | KS 4/x; DM 4... | 13/10 | 5 | 5 | 1000 |
| | | | | | | | |
| For matching base plates see accessories | | | | | | | |

## Sealing plug KM

-40 to 100 °C

TPE

V0

Media distinction with colour code

The KM sealing plug creates a waterproof seal for the KM and KMH sleeves. Using the the sealing plug enables required labelling all over the wet areas of the plant in a long-term manner. The sealing plugs are available in a wide variety of own colours in order to identify different media. Sealing plugs for KM and KMH label sleeves in 9 and 15 mm widths.



| Type | Order no. | Colour | RAL equiv. | for label holder | Pack qty. |
|---|---|---|---|---|---|
| KM 4 Plug | 86321210 | black | 9004 | KM 4/...B | 100 |
| KM 4 Plug | 86321214 | yellow | 1018 | KM 4/...B | 100 |
| KM 4 Plug | 86321212 | red | 2012 | KM 4/...B | 100 |
| KM 4 Plug | 86321216 | green | 6018 | KM 4/...B | 100 |
| KM 4 Plug | 86321218 | blue | 5012 | KM 4/...B | 100 |
| | | | | | |
| KM 9 Plug | 86321220 | black | 9004 | KM 9/...B | 100 |
| KM 9 Plug | 86321224 | yellow | 1018 | KM 9/...B | 100 |
| KM 9 Plug | 86321222 | red | 2012 | KM 9/...B | 100 |
| KM 9 Plug | 86321226 | green | 6018 | KM 9/...B | 100 |
| KM 9 Plug | 86321228 | blue | 5012 | KM 9/...B | 100 |
| | | | | | |
| KM 15 Plug | 86321230 | black | 9004 | KM 15/... | 100 |
| KM 15 Plug | 86321234 | yellow | 1018 | KM 15/... | 100 |
| KM 15 Plug | 86321232 | red | 2012 | KM 15/... | 100 |
| KM 15 Plug | 86321236 | green | 6018 | KM 15/... | 100 |
| KM 15 Plug | 86321238 | blue | 5012 | KM 15/... | 100 |

# ASI-Snap label holder

![icon] -40 to 80 °C

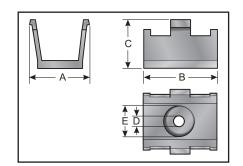![icon] Hard PVC

![icon] V0

![icon] Laying and labelling for ASI bus cable

Mounting clip for laying of the ASI bus cable. Easily installable mounting clip, screwed or riveted, for affixing and laying the ASI bus cable. The bus cable is simply snapped into the mounting clip; no further assembly required. KS 4/... labels can be latched into the mounting clip as bus cable labelling.

| Type | Order no. | for label holder | A mm | B mm | C mm | D mm | E mm | Pack qty. |
|------|-----------|-----------------|------|------|------|------|------|-----------|
| ASI-Snap | 86321062 | KM 4/... | 14.0 | 15.0 | 11.0 | 2.5 | 6.5 | 50 |

## KTN label holder (halogen-free)

-40 to 100 °C

TPE

HB

Halogen-free retrofitting

Halogen-free label holder for retrofit labelling of single wires and cables. They hold the idents (BK) and the ACS labels type KS or DM.
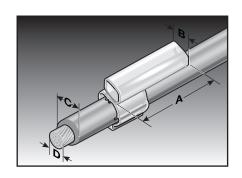The label holders are fixed in place manually.
Five versions are available covering the entire core cross section range from 0.25 mm² to 10 mm².

| Type | Order no. | Application range from - to mm | Core cross section * from - to mm² | for label plate | No. idents BK23/BK30 | Pack qty. |
|------|-----------|-------------|-------------|-----------|-----------|------|
| **Sleeve length 23 mm (A)** | | **(C)** | **(D)** | **(B)** | **(B)** | |
| KTN 1/23 | 86242310 | 1.7–3.0 | 0.25–1.5 | KS 4/23; DM 4... | 10/7 | 1000 |
| KTN 2/23 | 86242312 | 2.5–3.5 | 0.75–2.5 | KS 4/23; DM 4... | 10/7 | 1000 |
| KTN 3/23 | 86242314 | 3.3–4.8 | 2.5–4.0 | KS 4/23; DM 4... | 10/7 | 1000 |
| KTN 4/23 | 86242316 | 4.2–5.6 | 4.0–6.0 | KS 4/23; DM 4... | 10/7 | 1000 |
| KTN 5/23 | 86242318 | 5.0–7.0 | 6.0–10.0 | KS 4/23; DM 4... | 10/7 | 1000 |

* Single wire type H05/07V-K

# BK labels

-30 to 80 °C

PVC

V0

Holder frame AK is recommended for mounting.

Pre-inscribed murr-fix idents made from special PVC.
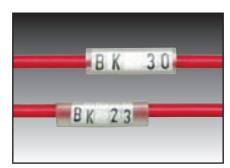The individual labels come on plastic strips, each containing 20 labels.
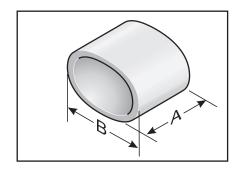BK 23: Label width 2.3 mm (A); Label height 4.0 mm (B)
Font width 1.6 mm; font height 3.5 mm; black lettering
BK 30: Label width 3.0 mm (A); Label height 4.0 mm (B)
Font width 2.0 mm; font height 3.5 mm; black lettering

| Type | BK 23 White holder Order no. | BK 23 yellow holder Order no. | BK 30 White holder Order no. | BK 30 yellow holder Order no. | Pack qty. |
|---|---|---|---|---|---|
| **Upper case letters** | | | | | |
| A | 86131811 | 86132012 | 86131211 | 86131411 | 1000 |
| B | 86131812 | 86132014 | 86131212 | 86131412 | 1000 |
| C | 86131813 | 86132016 | 86131213 | 86131413 | 1000 |
| D | 86131814 | 86132018 | 86131214 | 86131414 | 1000 |
| E | 86131815 | 86132020 | 86131215 | 86131415 | 1000 |
| F | 86131816 | 86132022 | 86131216 | 86131416 | 1000 |
| G | 86131817 | 86132024 | 86131217 | 86131417 | 1000 |
| H | 86131818 | 86132026 | 86131218 | 86131418 | 1000 |
| I | 86131819 | 86132028 | 86131219 | 86131419 | 1000 |
| J | 86131820 | 86132030 | 86131220 | 86131420 | 1000 |
| K | 86131821 | 86132032 | 86131221 | 86131421 | 1000 |
| L | 86131822 | 86132034 | 86131222 | 86131422 | 1000 |
| M | 86131823 | 86132036 | 86131223 | 86131423 | 1000 |
| N | 86131824 | 86132038 | 86131224 | 86131424 | 1000 |
| O | 86131825 | 86132040 | 86131225 | 86131425 | 1000 |
| P | 86131826 | 86132042 | 86131226 | 86131426 | 1000 |
| Q | 86131827 | 86132044 | 86131227 | 86131427 | 1000 |
| R | 86131828 | 86132046 | 86131228 | 86131428 | 1000 |
| S | 86131829 | 86132048 | 86131229 | 86131429 | 1000 |
| T | 86131830 | 86132050 | 86131230 | 86131430 | 1000 |
| U | 86131831 | 86132052 | 86131231 | 86131431 | 1000 |
| V | 86131832 | 86132054 | 86131232 | 86131432 | 1000 |
| W | 86131833 | 86132056 | 86131233 | 86131433 | 1000 |
| X | 86131834 | 86132058 | 86131234 | 86131434 | 1000 |
| Y | 86131835 | 86132060 | 86131235 | 86131435 | 1000 |
| Z | 86131836 | 86132062 | 86131236 | 86131436 | 1000 |

## BK labels

| Type | BK 23 White holder Order no. | BK 23 yellow holder Order no. | BK 30 White holder Order no. | BK 30 yellow holder Order no. | Pack qty. |
|---|---|---|---|---|---|
| **Lower case letters** | | | | | |
| a | 86131837 | 86132064 | 86131237 | 86131437 | 1000 |
| b | 86131838 | 86132066 | 86131238 | 86131438 | 1000 |
| c | 86131839 | 86132068 | 86131239 | 86131439 | 1000 |
| d | 86131840 | 86132070 | 86131240 | 86131440 | 1000 |
| e | 86131841 | 86132072 | 86131241 | 86131441 | 1000 |
| f | 86131842 | 86132074 | 86131242 | 86131442 | 1000 |
| g | 86131843 | 86132076 | 86131243 | 86131443 | 1000 |
| h | 86131844 | 86132078 | 86131244 | 86131444 | 1000 |
| i | 86131845 | 86132080 | 86131245 | 86131445 | 1000 |
| j | 86131846 | 86132082 | 86131246 | 86131446 | 1000 |
| k | 86131847 | 86132084 | 86131247 | 86131447 | 1000 |
| l | 86131848 | 86132086 | 86131248 | 86131448 | 1000 |
| m | 86131849 | 86132088 | 86131249 | 86131449 | 1000 |
| n | 86131850 | 86132090 | 86131250 | 86131450 | 1000 |
| o | 86131851 | 86132092 | 86131251 | 86131451 | 1000 |
| p | 86131852 | 86132094 | 86131252 | 86131452 | 1000 |
| q | 86131853 | 86132096 | 86131253 | 86131453 | 1000 |
| r | 86131854 | 86132098 | 86131254 | 86131454 | 1000 |
| s | 86131855 | 86132100 | 86131255 | 86131455 | 1000 |
| t | 86131856 | 86132102 | 86131256 | 86131456 | 1000 |
| u | 86131857 | 86132104 | 86131257 | 86131457 | 1000 |
| v | 86131858 | 86132106 | 86131258 | 86131458 | 1000 |
| w | 86131859 | 86132108 | 86131259 | 86131459 | 1000 |
| x | 86131860 | 86132110 | 86131260 | 86131460 | 1000 |
| y | 86131861 | 86132112 | 86131261 | 86131461 | 1000 |
| z | 86131862 | 86132114 | 86131262 | 86131462 | 1000 |
| **Numbers** | | | | | |
| 0 | 86131810 | 86132010 | 86131210 | 86131410 | 1000 |
| 1 | 86131877 | 86132144 | 86131278 | 86131610 | 1000 |
| 2 | 86131878 | 86132146 | 86131279 | 86131611 | 1000 |
| 3 | 86131879 | 86132148 | 86131280 | 86131612 | 1000 |
| 4 | 86131880 | 86132150 | 86131281 | 86131613 | 1000 |
| 5 | 86131881 | 86132152 | 86131282 | 86131614 | 1000 |
| 6 | 86131882 | 86132154 | 86131283 | 86131615 | 1000 |
| 7 | 86131883 | 86132156 | 86131284 | 86131616 | 1000 |
| 8 | 86131884 | 86132158 | 86131285 | 86131617 | 1000 |
| 9 | 86131885 | 86132160 | 86131286 | 86131618 | 1000 |

# BK labels

| Type | BK 23<br>White holder<br>Order no. | BK 23<br>yellow holder<br>Order no. | BK 30<br>White holder<br>Order no. | BK 30<br>yellow holder<br>Order no. | Pack<br>qty. |
|---|---|---|---|---|---|
| **Signs** | | | | | |
| + | 86131863 | 86132116 | 86131264 | 86131463 | 1000 |
| - | 86131864 | 86132118 | 86131265 | 86131464 | 1000 |
| / | 86131865 | 86132120 | 86131266 | 86131465 | 1000 |
| = | 86131866 | 86132122 | 86131267 | 86131466 | 1000 |
| . | 86131867 | 86132124 | 86131268 | 86131467 | 1000 |
| * | 86131868 | 86132126 | 86131269 | 86131468 | 1000 |
| : | 86131869 | 86132128 | 86131270 | 86131469 | 1000 |
| | | | | | |
| **Special characters** | | | | | |
| Left arrow | 86131870 | 86132130 | 86131271 | 86131470 | 1000 |
| Right arrow | 86131871 | 86132132 | 86131272 | 86131471 | 1000 |
| AC voltage | 86131872 | 86132134 | 86131273 | 86131472 | 1000 |
| Earthing symbol | 86131873 | 86132136 | 86131274 | 86131473 | 1000 |
| Star connection | 86131874 | 86132138 | 86131275 | 86131474 | 1000 |
| Delta connection | 86131875 | 86132140 | 86131276 | 86131475 | 1000 |
| | | | | | |
| **Blank space** | | | | | |
| Blank | 86131876 | 86132142 | 86131277 | 86131476 | 1000 |

For assembly/disassembly tools and aids see accessories

Red, yellow, green and brown lettering and special characters on request.

## KS label plate (single-line)

-40 to 140 °C

PC

V0

Single-line inscription

High-quality, halogen-free, universal label plate. The label plate KS 4/x is used with sleeves KT, KTH, KTHQ or holders KM, KMH, KMHQ or KTN on wires, cables, lines or conduits.
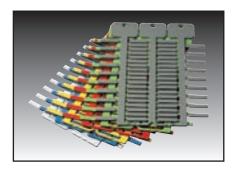The label plate is available in various lengths and colours.
The large printable area at the top allows room for individual project reference, dispensing with the need to organise additional systems.
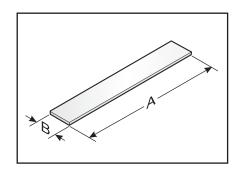
| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **Label length 12 mm** | | | | **(AxB)** | | | | | | |
| KS 4/12 | 86361026 | white | 9016 | 4x12 | 4x12 | 6/1 | 3 | 57 | 6 | 1026 |
| KS 4/12 | 86361018 | yellow | 1018 | 4x12 | 4x12 | 6/1 | 3 | 57 | 7 | 1026 |
| KS 4/12 | 86361020 | red | 2012 | 4x12 | 4x12 | 6/1 | 3 | 57 | 8 | 1026 |
| KS 4/12 | 86361022 | green | 6018 | 4x12 | 4x12 | 6/1 | 3 | 57 | 9 | 1026 |
| KS 4/12 | 86361024 | blue | 5012 | 4x12 | 4x12 | 6/1 | 3 | 57 | 10 | 1026 |
| KS 4/12 ST | 86361072 | white | 9016 | 4x12 | 4x12 | 6/1 | 2 | 72 | 6ST | 1296 |
| KS 4/12 ST | 86361073 | yellow | 1018 | 4x12 | 4x12 | 6/1 | 2 | 72 | 7ST | 1296 |
| KS 4/12 ST | 86361074 | red | 2012 | 4x12 | 4x12 | 6/1 | 2 | 72 | 8ST | 1296 |
| **Label length 18 mm** | | | | **(AxB)** | | | | | | |
| KS 4/18 | 86361036 | white | 9016 | 4x18 | 4x18 | 10/1 | 3 | 57 | 1 | 1026 |
| KS 4/18 | 86361028 | yellow | 1018 | 4x18 | 4x18 | 10/1 | 3 | 57 | 2 | 1026 |
| KS 4/18 | 86361030 | red | 2012 | 4x18 | 4x18 | 10/1 | 3 | 57 | 3 | 1026 |
| KS 4/18 | 86361032 | green | 6018 | 4x18 | 4x18 | 10/1 | 3 | 57 | 4 | 1026 |
| KS 4/18 | 86361034 | blue | 5012 | 4x18 | 4x18 | 10/1 | 3 | 57 | 5 | 1026 |
| KS 4/18 | 86361228 | grey | 7038 | 4x18 | 4x18 | 10/1 | 3 | 57 | 1G | 1026 |
| KS 4/18 | 86361033 | orange | 2011 | 4x18 | 4x18 | 10/1 | 3 | 57 | 10 | 1026 |
| KS 4/18 | 86361035 | brown | 8003 | 4x18 | 4x18 | 10/1 | 3 | 57 | 1B | 1026 |
| KS 4/18 | 86361029 | purple | 4005 | 4x18 | 4x18 | 10/1 | 3 | 57 | 1L | 1026 |
| KS 4/18 | 86361031 | pink | 4010 | 4x18 | 4x18 | 10/1 | 3 | 57 | 1R | 1026 |
| KS 4/18 ST | 86361080 | white | 9016 | 4x18 | 4x18 | 10/1 | 2 | 72 | 1ST | 1296 |
| KS 4/18 ST | 86361081 | yellow | 1018 | 4x18 | 4x18 | 10/1 | 2 | 72 | 2ST | 1296 |
| KS 4/18 ST | 86361082 | red | 2012 | 4x18 | 4x18 | 10/1 | 2 | 72 | 3ST | 1296 |

# KS label plate (single-line)

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **Label length 23 mm** | | | | **(AxB)** | | | | | | |
| KS 4/23 | 86361064 | white | 9016 | 4x23 | 4x23 | 12/1 | 1 | 34 | 11A | 1020 |
| KS 4/23 | 86361066 | yellow | 1018 | 4x23 | 4x23 | 12/1 | 1 | 34 | 11B | 1020 |
| KS 4/23 | 86361068 | red | 2012 | 4x23 | 4x23 | 12/1 | 1 | 34 | 11C | 1020 |
| | | | | | | | | | | |
| **Label length 30 mm** | | | | **(AxB)** | | | | | | |
| KS 4/30 | 86361042 | white | 9016 | 4x30 | 4x30 | 16/1 | 1 | 34 | 15 | 1020 |
| KS 4/30 | 86361246 | yellow | 1018 | 4x30 | 4x30 | 16/1 | 1 | 34 | 16 | 1020 |
| KS 4/30 | 86361240 | red | 2012 | 4x30 | 4x30 | 16/1 | 1 | 34 | 17 | 1020 |
| KS 4/30 | 86361244 | green | 6018 | 4x30 | 4x30 | 16/1 | 1 | 34 | 18 | 1020 |
| KS 4/30 | 86361242 | blue | 5012 | 4x30 | 4x30 | 16/1 | 1 | 34 | 19 | 1020 |
| KS 4/30 PE | 86361043 | Green/yellow | - | 4x30 | 4x30 | 16/1 | 1 | 34 | 15P | 1020 |
| | | | | | | | | | | |
| **Suitable for ferrules** | | | | | | | | | | |
| (AF = flat base) | | | | | | | | | | |
| **Label length 12 mm** | | | | **(AxB)** | | | | | | |
| KS 4/12-AF | 86361027 | white | 9016 | 4x12 | 4x12 | 6/1 | 3 | 57 | 5AF | 1026 |
| | | | | | | | | | | |
| **Label length 18 mm** | | | | **(AxB)** | | | | | | |
| KS 4/18-AF | 86361037 | white | 9016 | 4x18 | 4x18 | 10/1 | 3 | 57 | 6AF | 1026 |

Ferrule on request

Consult labelling system for suitable base plates

## KS label plate (single-line/divisible)

-40 to 140 °C

PC

V0

Single-line inscription

High-quality, halogen-free, divisible label plate. The label plate KS 4/x is used with sleeves KT, KTH, KTHQ or holders KM, KMH, KMHQ or KTN on wires, cables, lines or conduits.
The label plate is available in various colours.
The divisible part of the KS 4/18-12 is used as a record of the necessary connection data.
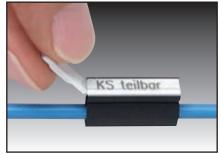The label plate KS 4/30-70 can be cut to length in steps of 10 mm if required for labels longer than 30 mm.
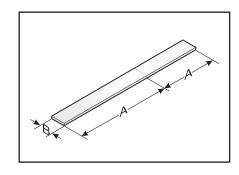
| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **Label length 30 mm (A)** | | | | **(BxA)** | | | | | | |
| KS 4/18-12 | 86361048 | white | 9016 | Part length 4x18 | 4x18 | 10/1 | 1 | 34 | 15A | 1020 |
| | | | | Part length 4x12 | 4x12 | 6/1 | | | | |
| | | | | | | | | | | |
| KS 4/18-12 | 86361050 | yellow | 1018 | Part length 4x18 | 4x18 | 10/1 | 1 | 34 | 16A | 1020 |
| | | | | Part length 4x12 | 4x12 | 6/1 | | | | |
| | | | | | | | | | | |
| KS 4/18-12 | 86361054 | green | 6018 | Part length 4x18 | 4x18 | 10/1 | 1 | 34 | 18A | 1020 |
| | | | | Part length 4x12 | 4x12 | 6/1 | | | | |
| | | | | | | | | | | |
| KS 4/18-12 | 86361052 | red | 2012 | Part length 4x18 | 4x18 | 10/1 | 1 | 34 | 17A | 1020 |
| | | | | Part length 4x12 | 4x12 | 6/1 | | | | |
| | | | | | | | | | | |
| **Label length 70 mm (A)** | | | | **(BxA)** | | | | | | |
| KS 4/30-70 | 86361070 | white | 9016 | 4x70 | 4x70 | 38/1 | 1 | 18 | 1U | 324 |
| | | | | | | | | | | |
| | | | | Part length 4x60 | 4x60 | 33/1 | | | 1U1 | |
| | | | | Part length 4x10 | 4x10 | 5/1 | | | | |
| | | | | | | | | | | |
| | | | | Part length 4x50 | 4x50 | 27/1 | | | 1U2 | |
| | | | | Part length 4x20 | 4x20 | 11/1 | | | | |
| | | | | | | | | | | |
| | | | | Part length 4x40 | 4x40 | 22/1 | | | 1U3 | |
| | | | | Part length 4x30 | 4x30 | 16/1 | | | | |
| | | | | | | | | | | |
| | | | | Part length 4x30 | 4x30 | 16/1 | | | 1U4 | |
| | | | | Part length 4x40 | 4x40 | 22/1 | | | | |
| Consult labelling system for suitable base plates | | | | | | | | | | |

# KS label plate (multi-line)

**-40 to 140 °C**

**PC**

**V0**

**Single-line and multi-line inscription**

High-quality, halogen-free, universal label plate. The label plate KS 15/x is mounted with the KM holders on cables, lines or conduits. The label plate is available in various lengths and colours. The large printable area at the top allows room for individual project reference, dispensing with the need to organise additional systems.

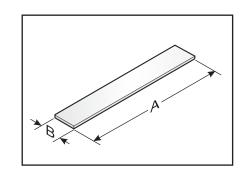| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **Label length 17 mm** | | | | **(BxA)** | | | | | | |
| KS 15/17 | 86361040 | white | 9016 | 15x17 | 15x17 | 9/3 | 4 | 24 | 84 | 720 |
| | | | | | | | | | | |
| **Label length 27 mm** | | | | **(BxA)** | | | | | | |
| KS 15/27 | 86361010 | white | 9016 | 15x27 | 15x27 | 15/3 | 4 | 16 | 85 | 480 |
| KS 15/27 | 86361012 | yellow | 1018 | 15x27 | 15x27 | 15/3 | 4 | 16 | 85G | 480 |
| KS 15/27 | 86361008 | red | 2012 | 15x27 | 15x27 | 15/3 | 4 | 16 | 85R | 480 |
| | | | | | | | | | | |
| **Label length 49 mm** | | | | **(BxA)** | | | | | | |
| KS 15/49 | 86361014 | white | 9016 | 15x49 | 15x49 | 27/3 | 4 | 8 | 86 | 240 |
| KS 15/49 | 86361015 | yellow | 1018 | 15x49 | 15x49 | 27/3 | 4 | 8 | 86G | 240 |
| KS 15/49 | 86361013 | red | 2012 | 15x49 | 15x49 | 27/3 | 4 | 8 | 86R | 240 |
| | | | | | | | | | | |
| **Label length 67 mm** | | | | **(BxA)** | | | | | | |
| KS 15/67 | 86361016 | white | 9016 | 15x67 | 15x67 | 37/3 | 4 | 4 | 87 | 120 |
| KS 15/67 | 86361017 | yellow | 1018 | 15x67 | 15x67 | 37/3 | 4 | 4 | 87G | 120 |
| KS 15/67 | 86361009 | red | 2012 | 15x67 | 15x67 | 37/3 | 4 | 4 | 87R | 120 |

Consult labelling system for matching base plates to plotter system
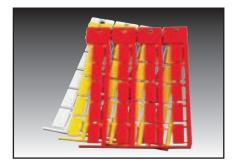
## KSO label plate

-40 to 140 °C

PC

V0

Single-line and multi-line inscription

High-quality, halogen-free, universal label plate for single-line and multi-line inscription. The KSO label is used with sleeves KT... or holders KM, KMH on cables, lines or conduits. The label plate is available in various lengths and colours.
The large printable area at the top allows room for individual project reference, dispensing with the need to organise additional systems.
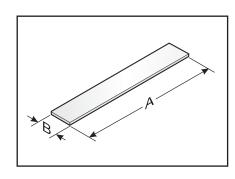




| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **Label length 11 mm** | | | | **(AxB)** | | | | | | |
| KSO 11x9 | 86421024 | white | 9016 | 11x9 | 11x9 | 6/2 | 4 | 44 | 60 | 1400 |
| KSO 11x9 | 86421013 | yellow | 1018 | 11x9 | 11x9 | 6/2 | 4 | 44 | 60G | 1400 |
| KSO 11x9 | 86421015 | red | 2012 | 11x9 | 11x9 | 6/2 | 4 | 44 | 60R | 1400 |
| | | | | | | | | | | |
| **Label length 15 mm** | | | | **(AxB)** | | | | | | |
| KSO 15x9 | 86421026 | white | 9016 | 15x9 | 15x9 | 8/2 | 4 | 44 | 62 | 1400 |
| KSO 15x9 | 86421027 | yellow | 1018 | 15x9 | 15x9 | 8/2 | 4 | 44 | 62G | 1400 |
| KSO 15x9 | 86421019 | red | 2012 | 15x9 | 15x9 | 8/2 | 4 | 44 | 62R | 1400 |
| | | | | | | | | | | |
| **Label length 20 mm** | | | | **(AxB)** | | | | | | |
| KSO 20x9 | 86421028 | white | 9016 | 20x9 | 20x9 | 11/2 | 4 | 20 | 64 | 680 |
| KSO 20x9 | 86421080 | yellow | 1018 | 20x9 | 20x9 | 11/2 | 4 | 20 | 65G | 680 |
| KSO 20x9 | 86421030 | red | 2012 | 20x9 | 20x9 | 11/2 | 4 | 20 | 65R | 680 |
| | | | | | | | | | | |
| **Label length 35 mm** | | | | **(AxB)** | | | | | | |
| KSO 35x9 | 86421064 | white | 9016 | 35x9 | 35x9 | 19/2 | 4 | 12 | 69 | 360 |
| KSO 35x9 | 86421065 | yellow | 1018 | 35x9 | 35x9 | 19/2 | 4 | 12 | 69G | 360 |
| KSO 35x9 | 86421066 | red | 2012 | 35x9 | 35x9 | 19/2 | 4 | 12 | 69R | 360 |
| | | | | | | | | | | |
| **Label length 70 mm** | | | | | | | | | | |
| KSO 70x9 | 86421082 | white | 9016 | 70x9 | 70x9 | 38/2 | 1 | 11 | 280 | 330 |
| KSO 70x9 | 86421083 | yellow | 1018 | 70x9 | 70x9 | 38/2 | 1 | 11 | 282 | 330 |
| KSO 70x9 | 86421084 | red | 2012 | 70x9 | 70x9 | 38/2 | 1 | 11 | 281 | 330 |

Consult labelling system for matching base plates to plotter system
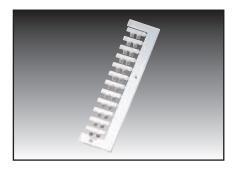
# KDE label plate

-40 to 140 °C

PC

V0

Single-line inscription. Suitable for use with narrow wire bending radii.

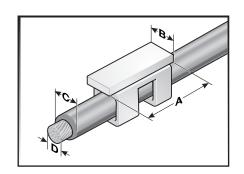ACS label plates of the KDE type are pushed directly onto single wires.
The transparent KNDT cover provides additional mechanical protection for the label.
The inscription can be changed at a later date by unclipping the KNDW holder without removing the wire.
The KNDW holder and KNDT cover may only be used in conjunction with KDE 1 and KDE 2 label plates.

| Type | Order no. | Colour | RAL equiv. | Application range from - to mm | Core cross section * from - to mm² | Label size (mm) | No. characters/ lines | Trees No. | Contents per frame | Software type | Pack qty. |
|------|-----------|--------|------------|-------------------------------|-----------------------------------|-----------------|----------------------|-----------|-------------------|--------------|-----------|
| | | | | (C) | (D) | (AxB) | | | | | |
| KDE 11 | 86381220 | white | 9016 | 1.7–3.2 | 0.25–1.0 | 12x4 | 6/1 | 1 | 12 | 150 | 1080 |
| KDE 11 | 86381222 | yellow | 1018 | 1.7–3.2 | 0.25–1.0 | 12x4 | 6/1 | 1 | 12 | 151 | 1080 |
| KDE 21 | 86381230 | white | 9016 | 2.0–4.2 | 1.0–2.5 | 12x4 | 6/1 | 1 | 12 | 152 | 1080 |
| KDE 21 | 86381232 | yellow | 1018 | 2.0–4.2 | 1.0–2.5 | 12x4 | 6/1 | 1 | 12 | 153 | 1080 |
| | | | | | | | | | | | |
| KDE 1 | 86381210 | white | 9016 | 1.7–3.2 | 0.25–1.0 | 16x4 | 8/1 | 1 | 12 | 74 | 1080 |
| KDE 2 | 86381212 | white | 9016 | 2.0–4.2 | 1.0–2.5 | 16x4 | 8/1 | 1 | 12 | 75 | 1080 |
| **Transparent cover** | | | | | | | | | | | |
| KNDT* | 86381214 | transparent | - | - | - | 16x4 | - | 1 | 12 | - | 760 |
| **For supplementary labelling system** | | | | | | | | | | | |
| KNDW | 86381216 | white | - | - | - | 16x4 | 8/1 | 1 | 12 | 76 | 760 |
| **Assembly tool for KNDT** | | | | | | | | | | | |
| MW 03 | 86391012 | - | | | | | | | | | 1 |

* Single wire type H05/07V-K

Consult labelling system for matching base plates to plotter system

## KSE label plate

-40 to 140 °C

PC

V0
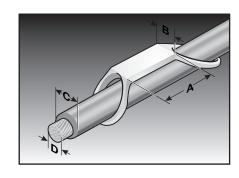
Single-line inscription

ACS label plates of the KSE type are pushed directly onto single wires.







| Type | Order no. | Colour | Application range from - to mm | Core cross section * from - to mm² | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|------|------|------|------|------|------|------|------|------|
| | | | (C) | (D) | (BxA) | | | | | | |
| KSE 4/10-0.75 | 86381010 | white | 1.5–2.5 | 0.25–0.75 | 6x18 | 4x10 | 5/1 | 3 | 60 | 92 | 1500 |
| KSE 4/10-1.5 | 86381012 | white | 2.5–3.0 | 0.75–1.5 | 6x18 | 4x10 | 5/1 | 3 | 60 | 93 | 1500 |
| KSE 4/18-1.5 | 86381014 | white | 2.5–3.0 | 0.75–1.5 | 6x26 | 4x18 | 10/1 | 2 | 40 | 94 | 1000 |

Consult labelling system for matching base plates to plotter system

* Single wire type H05/07V-K

# KSN label plate

-40 to 140 °C

PC

V0

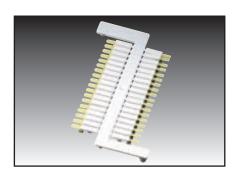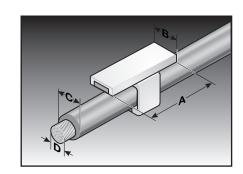Single-line inscription. Retrofitting.

High-quality, halogen-free label plate for subsequent direct labelling of wires. The KSN label plate can be attached to wired single cores without disconnecting them. The can be attached easily and quickly with the MW1 assembly tool.





| Type | Order no. | Colour | RAL equiv. | Application range from - to mm | Core cross section * from - to mm² | Label size (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|------------|-------------------------------|-----------------------------------|-----------------|----------------------|-----------|---------------|--------------|-----------|
| | | | | (C) | (D) | (AxB) | | | | | |
| KSN-A | 86381410 | white | 9016 | 2.1–2.5 | 0.5–0.75 | 14x5 | 7/1 | 1 | 36 | 12 | 360 |
| KSN-B | 86381412 | white | 9016 | 2.6–3.0 | 1.0–1.5 | 14x5 | 7/1 | 1 | 36 | 13 | 360 |
| KSN-C | 86381414 | white | 9016 | 3.0–3.7 | 2.5 | 14x5 | 7/1 | 1 | 36 | 14 | 360 |
| | | | | | | | | | | | |
| KSN sample set | 86391010 | - | | | | | | | | | 1 |
| consisting of: | | | | | | | | | | | |
| 1 KSN frame, 1 MW 1 assembly tool and 1 MPKSN mounting plate | | | | | | | | | | | |
| | | | | | | | | | | | |
| **Accessories** | | | | | | | | | | | |
| MW 1 | 86381610 | Mounting tool | | | | | | | | | 1 |
| MPKSN | 86381612 | Mounting plate | | | | | | | | | 1 |

Consult labelling system for suitable base plates

* Single wire type H05/07V-K

## BS label plate

-40 to 140 °C

PC

V0

Single-line and multi-line inscription
Mounted lengthways and crossways.

High-quality, halogen-free label plate for single-line and multi-line inscription.
The BS label plate is mounted directly with a cable tie.
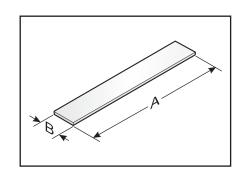






| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Cable ties max. width of mm | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|-----------|-----------------|---------------------|----------------------|----------------------------|-----------|---------------|--------------|-----------|
| **For affixing lengthwise** | | | | **(AxB)** | | | | | | | |
| BS 5 | 86281020 | white | 9016 | 27x12 | 27x12 | 15/3 | 3,0 | 4 | 16 | 80 | 190 |
| **For affixing lengthways or crossways** | | | | **(AxB)** | | | | | | | |
| BS 6 | 86281022 | white | 9016 | 27x12 | 27x12 | 15/3 | 3,0 | 4 | 16 | 81 | 190 |
| For correct size of cable tie KB see accessories | | | | | | | | | | | |
| Consult labelling system for suitable base plates | | | | | | | | | | | |
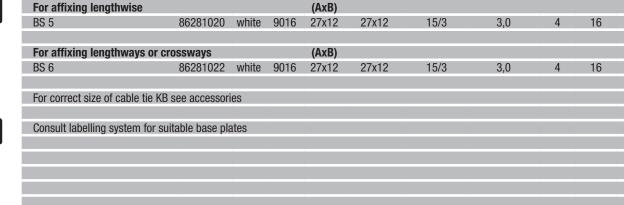
# ESL label plate

-40 to 150 °C

Polyester foil
Adhesive 4830

V0
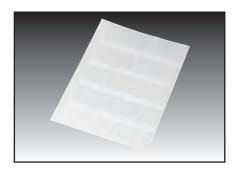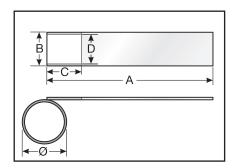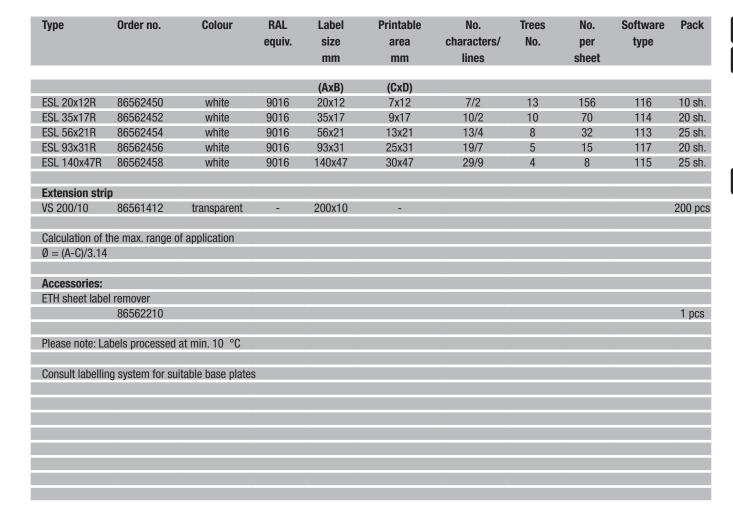
Single-line and multi-line inscription,
A4 sheets.

Self-laminating, high-quality polyester labels for single-line and multi-line inscription. The transparent extension strip sticks over the printable area and keeps the inscription clean and intact. The grid system allows direct removal of each label.

| Type | Order no. | Colour | RAL equiv. | Label size mm (AxB) | Printable area mm (CxD) | No. characters/ lines | Trees No. | No. per sheet | Software type | Pack |
|---|---|---|---|---|---|---|---|---|---|---|
| ESL 20x12R | 86562450 | white | 9016 | 20x12 | 7x12 | 7/2 | 13 | 156 | 116 | 10 sh. |
| ESL 35x17R | 86562452 | white | 9016 | 35x17 | 9x17 | 10/2 | 10 | 70 | 114 | 20 sh. |
| ESL 56x21R | 86562454 | white | 9016 | 56x21 | 13x21 | 13/4 | 8 | 32 | 113 | 25 sh. |
| ESL 93x31R | 86562456 | white | 9016 | 93x31 | 25x31 | 19/7 | 5 | 15 | 117 | 20 sh. |
| ESL 140x47R | 86562458 | white | 9016 | 140x47 | 30x47 | 29/9 | 4 | 8 | 115 | 25 sh. |

**Extension strip**

| VS 200/10 | 86561412 | transparent | - | 200x10 | - | | | | | 200 pcs |

Calculation of the max. range of application
$\emptyset = (A-C)/3.14$

**Accessories:**

ETH sheet label remover

|  | 86562210 | | | | | | | | | 1 pcs |

Please note: Labels processed at min. 10 °C

Consult labelling system for suitable base plates

# Engraving material for labelling of single wires, cables and conduits

## 🗹 Duomatt/engraving mat

*Double-layer material*

Composed of a coloured surface layer and a primarily black base.

Rear is coated with self-adhesive, pressure sensitive or a strongly adhesive film.

Suitable for engraving using ink or laser.

## 🗹 Triomatt

*Three-layered material*

Similar to Duomatt, but with one coloured surface coat and two differently coloured bases.

Depending on the immersion depth of the graver, either the upper or lower based is revealed.

Suitable for engraving using ink or laser.

## 🗹 Alumatt

*Three-layered material*

Two aluminium coats with an intermediary layer of melamine.

The dark melamine core is revealed during engraving to produce the script.

## 🗹 Aluminium

Solid aluminium with a silver, black or other coloured anodic layer. For silver anodization the script must be inlaid after the engraving; that extra step is not necessary for other colours.

# From Alumatt to double-layered material: Everything you need to know about engraving.

Engraving represents one of the most durable yet economic labelling methods.

Engraved labels last an extremely long time, are resistant to environment influences and mechanical stress. The combination of engraving and suitable media can produce long-lasting labels even in the harshest of industrial environments.

There are a variety of fastening possibilities. These range from a simple press-on action using a self-adhesive side to fastening with cable ties or a label holder system to be screwed or riveted down.

Please visit our internet site for a convenient overview of the broad spectrum of engraving material from Murrplastik and quick search options for your labelling needs. It's quick and easy to find the right solution based on the materials, dimensions, shape, colour and fastening type. Please visit

# www.murrplastik.de/acs/dm

## 🗹 Variety of shapes

*Standard shapes:*
Prepunched/milled plates for use on the mat, square and round in many shapes

*Universal:*
Plastic and aluminium plates (300 x 200 mm) for general use

## 🗹 Variety of options

*Cornered model:*
Square-edged or with radius

*Bore holes:*
in any count desired for screws or rivets

*Adhesive model:*
- without adhesive (HF)
- self-adhesive (SK)
- self-adhesive
  for rough surfaces (SSK)

# Terminal block labelling

## Adels

| **Adels-Kle** |
| --- |
| RKV |
| |

**Adels**

List of Adels terminal blocks and the Murrplastik labels that fit them

**Page 64**

## Allen Bradley

| **Allen Bradley-Kl** |
| --- |
| 1492 J3 |
| 1492 J5 |
| 1492 J6 |
| 1492 K2 |

**Allen Bradley**

List of Allen Bradley terminal blocks and the Murrplastik labels that fit them

**Page 64**

## Beckhoff

| **Beckoff-Kle** |
| --- |
| EL 1004 |
| IE 3112-2-00 Feldv |
| IL 2301-B310 |
| KL 1408 |

**Beckhoff**

List of Beckhoff terminal blocks and the Murrplastik labels that fit them

**Page 64**

## Conta Clip

| **Conta Clip-Kle** |
| --- |
| PK-TS 15/35 |
| ZRKG |
| ZSLG |
| ZSLN |

**Conta Clip**

List of Conta Clip terminal blocks and the Murrplastik labels that fit them

**Page 66**

## Entrelec

| **Entrelec-Kle** |
| --- |
| D 1,5 /5 |
| D 2,5-5 2L2L |
| D 2.5/6.D |
| D 6/8 |

**Entrelec**

List of Entrelec terminal blocks and the Murrplastik labels that fit them

**Page 65**

# Overview of terminal block makers

| Klemsan-Kle | **Klemsan** |
|---|---|
| AVK 2,5 | List of Klemsan terminal blocks and the Murrplast k labels that fit them |
| AVK 4 | |
| AVK 6 | **Page 66** |
| AVK 10 | |

| Schlegel-Kle | **Schlegel** |
|---|---|
| FK16 | List of Schlegel terminal blocks and the Murrplastik labels that fit them |
| IKSI4 | |
| IKTR16 | **Page 71** |
| IK16 | |

| Legrand-Kle | **Legrand** |
|---|---|
| Wk 2,5/U | List of Legrand terminal blocks and the Murrplastik labels that fit them |
| | **Page 67** |

| Sprecher+Schuh- | **Sprecher und Schuh** |
|---|---|
| V7-W3 | List of Sprecher und Schuh terminal blocks and the Murrplastik labels that fit them |
| V7-W4 | |
| V7-W6 | **Page 72** |
| V7-W10 | |

| Lütze-Kle | **Lütze** |
|---|---|
| EURO-Klemme (6 mn | List of Lütze terminal blocks and the Murrplastik labels that fit them |
| Klemme | |
| | **Page 67** |

| Wago-Kle | **Wago** |
|---|---|
| 2002-1201 Top-Job | List of Wago terminal blocks and the Murrplastik labels that fit them |
| 2002-1401 Top-Job | |
| 2004-1201 Top-Job | **Page 73** |
| 249-117 | |

| Murrelektronik-K | **Murrelektronik** |
|---|---|
| KM 4 (90931) | List of Murrelektronik terminal blocks and the Murrplastik labels that fit them |
| KM 5 (90900) | |
| ME-Klemme 44212 | **Page 67** |

| Weidmüller-Kle | **Weidmüller** |
|---|---|
| AKZ 4../ AKB 4… | List of Weidmüller terminal blocks and the Murrplastik labels that fit them |
| BZT ZVL 1,5 | |
| DLA 2,5 | **Page 75** |
| DLD 2,5 | |

| Phoenix-Kle | **Phoenix** |
|---|---|
| ASI IO SL DI 4/4 | List of Phoenix terminal blocks and the Murrplastik labels that fit them |
| ASI IO SL DIO 4/2/2 | |
| ASI IO SL DIO 8/4/4 | **Page 68** |
| ASI IO SL DO 4/4 | |

| Wieland-Kle | **Wieland** |
|---|---|
| 9700 A S35 | List of Wieland terminal blocks and the Murrplastik labels that fit them |
| 97050 AI | |
| WK 2,5/U | **Page 78** |
| WK 4/U | |

| Siemens-Kle | **Siemens** |
|---|---|
| 3TX7 004-1LB0 | List of Siemens terminal blocks and the Murrplastik labels that fit them |
| 3TX7 004-1LF00 | |
| 8WA1 011-0DF21 | **Page 72** |
| 8WA1 011-0DG21 | |

| Woertz-Kle | **Woertz** |
|---|---|
| 2711 | List of Woertz terminal blocks and the Murrplastik labels that fit them |
| 30150BL | |
| 30150E | **Page 78** |
| 30150GR | |
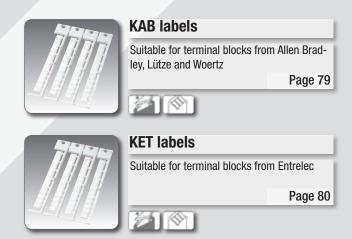
ACS
MP

### KAB labels

Suitable for terminal blocks from Allen Bradley, Lütze and Woertz

### KET labels

Suitable for terminal blocks from Entrelec

# Overview of labels

## KSI labels

Suitable for terminal blocks from Siemens

**Page 85**

## KLG labels

Suitable for terminal blocks from Legrand

**Page 81**

## KWI labels

Suitable for terminal blocks from Entrelec, D+E, Legrand, Phoenix, Sprecher + Schuh, Telemecanique, Wago and Wieland **Page 86**

## KMR labels

Suitable for terminal blocks from Conta Clip, Entrelec, Klemsan, Schlegel, Weidmüller and Wago **Page 82**

## WGO labels

Suitable for terminal blocks from Beckoff, Entrelec and Wago

**Page 87**

## KPX labels

Suitable for terminal blocks from Entrelec, Murrelektronik, Phoenix, Siemens and Wago **Page 83**

## TK labels
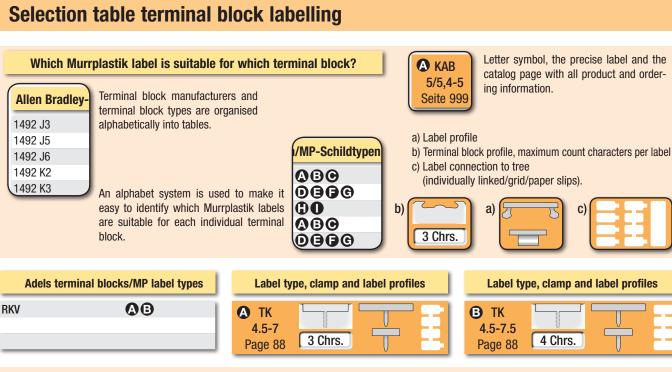
Suitable for terminal blocks from Adels

**Page 88**

## Selection table terminal block labelling

### Which Murrplastik label is suitable for which terminal block?

| **A** KAB 5/5,4-5 Seite 999 |

Letter symbol, the precise label and the catalog page with all product and ordering information.

**Allen Bradley-**

| 1492 J3 |
| 1492 J5 |
| 1492 J6 |
| 1492 K2 |
| 1492 K3 |

Terminal block manufacturers and terminal block types are organised alphabetically into tables.

An alphabet system is used to make it easy to identify which Murrplastik labels are suitable for each individual terminal block.

**/MP-Schildtypen**

Ⓐ Ⓑ Ⓒ
Ⓓ Ⓔ Ⓕ Ⓖ
Ⓗ Ⓘ
Ⓐ Ⓑ Ⓒ
Ⓓ Ⓔ Ⓕ

a) Label profile
b) Terminal block profile, maximum count characters per label
c) Label connection to tree (individually linked/grid/paper slips).

b) 3 Chrs.  a)  c)

---

### Adels terminal blocks/MP label types

| RKV | Ⓐ Ⓑ |

### Label type, clamp and label profiles

| **A** TK 4.5-7 Page 88 | 3 Chrs. |

### Label type, clamp and label profiles

| **B** TK 4.5-7.5 Page 88 | 4 Chrs. |

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### Allen Bradley terminal blocks/MP label types

| 1492 J3 | Ⓐ Ⓑ Ⓒ |
| 1492 J5 | Ⓓ Ⓔ Ⓕ Ⓖ |
| 1492 J6 | Ⓗ Ⓘ |
| 1492 K2 | Ⓐ Ⓑ Ⓒ |
| 1492 K3 | Ⓓ Ⓔ Ⓕ Ⓖ |
| 1492 Lxxx | Ⓐ Ⓑ Ⓒ |
| 1492 M 5x5 | Ⓐ |
| 1492 M 5x12 | Ⓒ |
| 1492 M 6x10 | Ⓔ |
| 1492 M 6x12 | Ⓕ |
| 1492 SM 5x5 | Ⓐ |
| 1492 SM 5x9 | Ⓑ |
| 1492 SM 6x9 | Ⓓ |
| 1492 SM 6x10 | Ⓔ |
| 1492 SM 6x12 | Ⓕ |
| 1492 SM 8x9 | Ⓗ |
| 1492 SM 8x12 | Ⓘ |
| 1492-JD3C | Ⓐ |
| 1492-WD4 | Ⓓ |

### Label type, clamp and label profiles

| **A** KAB 5/5.4-5 Page 79 | 3 Chrs. |
| **B** KAB 5/9-5 Page 79 | 5 Chrs. |
| **C** KAB 5/12-5 Page 79 | 6 Chrs. |
| **D** KAB 6/9-6 Page 79 | 5 Chrs. |
| **E** KAB 6/10-6 Page 79 | 5 Chrs. |

### Label type, clamp and label profiles

| **F** KAB 6/12 Page 79 | 6 Chrs. |
| **G** KAB 6/12-6 Page 79 | 6 Chrs. |
| **H** KAB 8/9-8 Page 79 | 5 Chrs. |
| **I** KAB 8/12-8 Page 79 | 6 Chrs. |

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### Beckhoff terminal blocks/MP label types

| EL1004 | Ⓐ |
| KL 1408 | Ⓑ |
| KL 1418 | Ⓑ |
| KL 2408 | Ⓑ |
| KL 14xx | Ⓐ |

### Beckhoff terminal blocks/MP label types

### Label type, clamp and label profiles

| **A** WGO 5/5-5 Page 87 | 3 Chrs. |
| **B** WGO 12/7 Page 87 | 6 Chrs. |

# Selection table terminal block labelling

## Entrelec terminal blocks/MP label types

| Terminal block | Label types |
|---|---|
| D1.5/5 | M N P Q |
| D2.5-5 2L2L (grey) | H |
| D2.5/6.D (grey) | I J K |
| D6/8.ADO (grey) | F |
| D2.5/5.2L (grey) | J |
| D2.5/5.4L (grey) | Q |
| D2.5/5.P.4L (green) | A D T U Y |
| D2.2.5/6.DA (RC65) | J L |
| D4/6 LNTP (grey) | b c |
| D4-6 2L | B |
| D4-6.P.2L (green) | C |
| D6-8 2L (grey) | A E V W Y |
| D6-8.P.2L (green) | A E V W Y |
| DR 4/6 (grey) | A Y |
| ENK-BADL | Z a |
| M 4/6... (grey) | E G M N |
| M 4/8 (grey) | E |
| M 6/8... (grey) | F |
| M 10/10... (grey) | E |
| M 16/12... (grey) | E |
| M 35/16... (grey) | E |
| MA 2.5/5 (RC510) | R S |
| MA 2.5/5D2 (RC510) | H |
| RC 55 (5 x 5 mm) | Y |
| RC 65 (6 x 5 mm) | Y |
| RC 510 (5 x 10 mm) | D |
| RC 610 (6 x 10 mm) | E |
| Time relay made by ENTRELEC Schiele | X |

## Label type, clamp and label profiles

**A** KAB 5/5.4-5 Page 79 — 3 Chrs.

**B** KAB 5/9-5 Page 79 — 5 Chrs.

**C** KAB 6/9-6 Page 79 — 5 Chrs.

**D** KET 5/10-5 Page 80 — 5 Chrs.

**E** KET 6/10-6 Page 80 — 5 Chrs.

**F** KET 8/10-8 Page 80 — 5 Chrs.

**G** KMR 5/7.5-5 Page 82 — 4 Chrs.

**H** KPX 4/10 Page 83 — 5 Chrs.

**I** KPX 5/5-5 ZS Page 84 — 3 Chrs.

**J** KPX 5/10-5 Page 83 — 5 Chrs.

**K** KPX 5/10-5 ZS Page 84 — 5 Chrs.

**O** KPX 6/5-6 ZS Page 84 — 3 Chrs.

**P** KPX 6/15 Page 83 — 8 Chrs.

**L** KPX 5/15-5 Page 83 — 8 Chrs.

**N** KPX 6/10-6 Page 83 — 5 Chrs.

**M** KPX 6/10 Page 83 — 5 Chrs.

## Label type, clamp and label profiles

**Q** KPX 6/15-6 Page 83 — 8 Chrs.

**R** KSF 20x9 Page 112 — 11 Chrs.

**S** KSS 20x9 Page 105 — 11 Chrs.

**T** KWI 5/10 Page 86 — 5 Chrs.

**U** KWI 5/15 Page 86 — 8 Chrs.

**V** KWI 6/10 Page 86 — 5 Chrs.

**W** KWI 6/15 Page 86 — 5 Chrs.

**X** SKS 20x7 Page 104 — 11 Chrs.

**Y** WGO 5/5-5 Page 87 — 3 Chrs.

**Z** WGO 5/10-5 Page 87 — 5 Chrs.

**a** WGO 5/10-5F Page 87 — 5 Chrs.

**b** KMR 6/10 Page 82 — 5 Chrs.

**c** KMR 6/10-6 Page 82 — 5 Chrs.

## Selection table terminal block labelling

### Conta Clip terminal blocks/MP label types

| Type | MP label types |
|---|---|
| PK-TS 15/35 | A C E |
| ZRKG | B |
| ZSLG | B |
| ZSLN | C D E |
| ZSRK | B C D E F |
| ZVMAK | C D E |

### Label type, clamp and label profiles

| | | |
|---|---|---|
| A | KMR 3.5/7.5-3.5 Page 82 | 4 Chrs. |
| B | KMR 5/7.5-5 Page 82 | 4 Chrs. |
| C | KMR 6/10 Page 82 | 5 Chrs. |

### Label type, clamp and label profiles

| | | |
|---|---|---|
| D | KMR 6/10-6 Page 82 | 5 Chrs. |
| E | KMR 6/15 Page 82 | 8 Chrs. |
| F | KMR 6/15-6 Page 82 | 8 Chrs. |

### Klemsan terminal blocks/MP label types

| Type | MP label types |
|---|---|
| AVK 2.5 | A B C F G H |
| AVK 4 | D E I J |
| AVK 6 | I J |
| AVK 10 | I J |
| AVK 16 | I J |
| AVK 35 | I J |
| AVK 70 | I J |
| AVK 2.5/4 T | D E I J |
| AVK 6/10 T | I J |
| AVK 16/35 T | I J |
| YBK 2.5 | A B C F G H |
| YBK 4 | D E I J |
| YBK 6 | I J |
| YBK 10 | I J |
| YBK 2.5 T | A B C F G H |
| YBK 4 T | D E I J |
| YBK 6 T | I J |
| YBK 10 T | I J |
| PEK 2.5 K | A B C F G H |
| PEK 2.5 | D E I J |
| PEK 4 | D E |
| PEK 6 | I J |
| PEK 10 | I J |
| PEK 16 | I J |
| PEK 35 | I J |
| PEK 35 I | I J |
| WGT 2.5 | A B C F G H |
| WGT 4 | D E I J |
| WGT 6 | I J |
| WGT 10 | I J |
| MVK 2.5 | A B C F G H |
| MVK 4 | D E I J |
| MVK 2.5 T | A B C |
| MVK 4 T | D E I J |

### Klemsan terminal blocks/MP label types

| Type | MP label types |
|---|---|
| PIK 2.5 N | A B C F G H |
| PIK 4 N | D E I J |
| PUK 3 | D E I J |
| PUK 2 | D E I J |
| ASK 3 FB | D E I J |
| ASK 2 B | I J |
| ASK 4 B | I J |

| | | |
|---|---|---|
| J | KMR 6/15-6 Page 82 | 8 Chrs. |

### Label type, clamp and label profiles

| | | |
|---|---|---|
| A | KMR 5/10 Page 82 | 5 Chrs. |
| B | KMR 5/10 FA Page 82 | 5 Chrs. |
| C | KMR 5/15 Page 82 | 8 Chrs. |
| D | KMR 6/10 Page 82 | 5 Chrs. |
| E | KMR 6/15 Page 82 | 8 Chrs. |
| F | KMR 5/7.5-5 Page 82 | 4 Chrs. |
| G | KMR 5/10-5 Page 82 | 5 Chrs. |
| H | KMR 5/15-5 Page 82 | 8 Chrs. |
| I | KMR 6/10-6 Page 82 | 5 Chrs. |

# Selection table terminal block labelling

## Legrand terminal blocks/MP label types

| | |
|---|---|
| Wk 2.5/U | **A** |

### Label type, clamp and label profiles

**A** KLG
5/10
Page 81 — 5 Chrs.

## Lütze terminal blocks/MP label types

| | |
|---|---|
| EURO terminal block (6 mm wide) | **A** |
| Initiator terminal blocks | **B** |

### Label type, clamp and label profiles

**A** KAB
6/12-6
Page 79 — 6 Chrs.

### Lütze terminal blocks/MP label types

**B** SKS
11x4
Page 104 — 6 Chrs.

## Murrelektronik terminal blocks/MP label types

| | |
|---|---|
| KM 4 (90931) | **A** |
| KM 5 (90900) | **B** |
| KM 5/15 (90901) | **D** |
| ME terminal block 44212 | **C** |

### Label type, clamp and label profiles

**A** KS
5/10
Page 111 — 6 Chrs.

**B** KSS
20x9
Page 105 — 11 Chrs.

### Label type, clamp and label profiles

**C** KPX
5/15-5
Page 83 — 8 Chrs.

**D** KWI
5/15
Page 86 — 8 Chrs.

## Selection table terminal block labelling

| Phoenix terminal blocks/MP label types | |
|---|---|
| 9700 A S35 | N O |
| ASI IO SL DI 4/4 | D |
| ASI IO SL DIO 4/2/2 | D |
| ASI IO SL DIO 8/4/4 | D |
| ASI IO SL DO 4/4 | D |
| DFK ... | H J |
| DFK 4 | H I J K |
| DFK 4 - PE | H I J K |
| DFK 4 - SI | H J |
| DIK 1.5 | H I J K |
| DIK 1.5 - LA (RD) | H I J K |
| DIKD 1.5 | H I J K |
| DIKD 1.5 - LA | H I J K |
| DIKD 1.5 - PV | H I J K |
| DLK 2.5 - PE | H I J K |
| DLKB 2.5 PE | H I J K |
| DOK 1.5 - 2D | H I J K |
| DOK 1.5 LA | H I J K |
| DOK 1.5 TG | H I J K |
| DOKD 1.5 - TG | H I J K |
| E - UK | H J |
| GBS 5-UK/B | D |
| GTF 76/230 | H J |
| IBIL ....diverse | L |
| K4 - SP | H I J K |
| MBK 3/ E - Z | D F |
| MBK 3/ E - Z -PE | D F |
| MBK 6 / E | H J |
| MBKKB 2.5 | D F |
| MBKKB 2.5 - DIO | D F |
| MBKKB 2.5 - PV | D F |
| MBKKB 2.5 + V | D F |
| MBT 2.5 | H I J K |
| MBT 2.5 PE | H J |
| Mini MCR-SL-1 | G P L |
| Mini MCR-SL-1(2)CP-I-I-SP | G P L |
| Mini MCR-SL-I-I | G P L |
| Mini MCR-SL-PT100-UI | G P L |
| Mini MCR-SL-PT100-UI-NC | G P L |
| Mini MCR-SL-PTB | G P L |
| Mini MCR-SL-PTB-SP | G P L |
| Mini MCR-SL-RPS-I-I | G L |
| Mini MCR-SL-UI-21 | P L |
| Mini MCR-SL-UI-Ui | G P L |
| Mini MCR-SL-UI-UI-NC | G P L |
| MSLKG 6 | H J |
| MT 1.5 | A |
| MT 1.5 PE | A |
| MT 1.5 QUATTRO | A |
| MT 1.5 QUATTRO -PE | A |

| Phoenix terminal blocks/MP label types | |
|---|---|
| MT 1.5 TWIN | A |
| MT 1.5 TWIN - PE | A |
| MTK - LOE | D F |
| MTK - P/P | D F |
| MTK - TP | D F |
| MTKD-... | H J |
| MTTB 1.5 | A |
| MZB 1.5 | C L |
| MZDB 1.5 | C L |
| MZFK 1.5 | C L |
| MZFKK 1.5 | C L |
| MZFKKB 1.5 | C L |
| OTTA 2.5 | H J |
| OTTA 2.5 PE | H J |
| OTTA 6 | H J |
| OTTA 6 - PE | H J |
| OTTA 6 - T | H J |
| OTTA 25 | H J |
| PIK 4 -L | H |
| PIK 4 - L / L | H |
| PIK 4 - L / LB | H |
| PIK 4- PE / L / NT | H |
| PIK 4 - PE / L / NTB | H |
| PIK 4 PE / L / L | H |
| PIK 4 PE / L / N | H |
| PIK 6 - L / L | H J |
| PIK 6 - PE / L / L | H J |
| PIK 6 - PE / L / N | H J |
| PLC RSC | H J |
| QT 1.5 | G I L |
| QT 1.5 TWIN | D |
| QT 1.5-PE | G I L |
| QTC 1,5-TG (disconnect terminal) | D |
| QTC 1.5-MT (knife disconnect terminal) | D |
| RTK | H J |
| SLKK 5 | H I J K |
| SLKK 5 - LA | H I J K |
| SPB 2.5 | C E L |
| SSK 0525 KER-EX | H J |
| SSK 110 KER-EX | H J |
| SSK 116 KER-EX | H J |
| ST 2.5 | C D L |
| ST 2.5 TWIN | C L |
| ST 2.5-PE | C D L |
| ST 4 | G L |
| ST 4 TWIN | H |
| ST 6 | G L |
| ST 10 | G L |
| ST 16 | M L |
| ST 35 | G L |

| Phoenix terminal blocks/MP label types | |
|---|---|
| STS 2.5 Twin | D |
| STS 2,5/2,5 PE/Quattro MT/TG | G L |
| STI 2.5-PE/L/LB | C L |
| STS 4 / 4 PE / Quattro | H I |
| STTB 1.5 | A B |
| TML... | H J |
| UDK 3 | D F |
| UDK 3 - PE | D F |
| UDK 4 | H I J K |
| UDK 4 - ILA | H I J K |
| UDK 4 - ULA | H I J K |
| UDK 4 MTK - P / P | H I J K |
| UDK 4 TG | H I J K |
| UDMTK 5 - P / P | H I J K |
| UDMTK 5 - TWIN - P/P | H I J K |
| UHSK / S 2000 | H J |
| UHV 25 | H J |
| UHV 50 | H J |
| UHV 95 | H J |
| UHV 150 | H J |
| UHV 240 | H J |
| UIK 16 | H J |
| UIK 16 - PE / N | H J |
| UIK 35 - PE / N | H J |
| UIKN 35 | H J |
| UISLKG 16 | H J |
| UISLKG 35 | H J |
| UK - FRONT 4 | H I J K |
| UK - FRONT 4 - PE | H I J K |
| UK 1.5 N | A B |
| UK 2.5 | D F |
| UK 2.5 B | H I J K |
| UK 2.5 LOER | H I J K |
| UK 2.5 N | D F |
| UK 3 | D F |
| UK 3 - EX | D F |
| UK 3 - RETURN | D F |
| UK 3 - RETURN - PE | D F |
| UK 3 - TWIN | D F |
| UK 3 - TWIN - PE | D F |
| UK 3 N | D F |
| UK 4 | H I J K |
| UK 4 EX | H I J K |
| UK 4 - TG | H I J K |
| UK 4 - TG -LOER - P/P | H I J K |
| UK 4 FS / FS | H I J K |
| UK 4 FSR | H I J K |
| UK 4 LOER | H I J K |
| UK 4 TP | H I J K |
| UK 4 TP / TP | H I J K |

# Selection table terminal block labelling

| Phoenix terminal blocks/MP label types | |
|---|---|
| UK 5 | H I J K |
| UK 5 - HESI | H J |
| UK 5 - MTK - P/P | H I J K |
| UK 5 - R - L | H I J K |
| UK 5 - TWIN | D F |
| UK 5 - TWIN - EX | D |
| UK 5 / R - DRAHT | H J |
| UK 5 N | H I J K |
| UK 5 RETURN | H I J K |
| UK 5 RETURN - PE | H I J K |
| UK 5 TWIN | H I J K |
| UK 5 TWIN - PE | H I J K |
| UK 6 | H J |
| UK 6 N | H J |
| UK 6.3 HESI | H J |
| UK 10 | H J |
| UK 10 - DREHSI | H J |
| UK 10 - EX | H J |
| UK 10 - N-PE / N | H J |
| UK 10 - PLUS | H J |
| UK 10 - PLUS - PE | H J |
| UK 10 - TWIN | H J |
| UK 10 - TWIN - PE | H J |
| UK 10 N | H J |
| UK 10 RETURN | H J |
| UK 10 RETURN - PE | H J |
| UK 10.3 - HESI | H J |
| UK 16 | H J |
| UK 16 - EX | H J |
| UK 16 - PE / N | H J |
| UK 16 N | H J |
| UK 16 N - EX | H J |
| UK 16 N - PE / N | H J |
| UK 35 | H J |
| UK 35 - EX | H J |
| UK 35 - PE / N | H J |
| UK SI | H J |
| UKB 4 FS ... | H |
| UKD 4 PE | H I J K |
| UKH 25 | H J |
| UKH 50 | H J |
| UKH 50 - PE / N | H J |
| UKH 95 | H J |
| UKH 95 - PE / N | H J |
| UKH 150 | H J |
| UKH 240 | H J |
| UKK 3 | D F |
| UKK 4 - FS | H J |
| UKK 4 - FS / FS | H J |
| UKK 5 | H I J K |

| Phoenix terminal blocks/MP label types | |
|---|---|
| UKK 5 - DIO | H I J K |
| UKK 5 - TG | H I J K |
| UKK 5 -2 -DIO | H I J K |
| UKK 5 -LA | H I J K |
| UKKB 3 | D F |
| UKKB 5 | H I J K |
| UKKB 10 | H J |
| UKKB 10 / 2.5 | H J |
| UKKB 10 / 2.5 - PE | H J |
| UKN 2.5 | H I J K |
| UKN 4 | H I J K |
| UKN 5 | H I J K |
| UKN 10 (N) | H J |
| UKN 16 | H J |
| UKN 16N | H J |
| UKN 35 | H J |
| UKSN | H I J K |
| URK - ND | H J |
| URK - ND 2 | H J |
| URKN | H J |
| URKN - A | H J |
| URKN / S | H I J K |
| URTK - BEN | H J |
| URTK / S | H J |
| URTK - BEN | H J |
| URTK / S | H J |
| URTK / S - BEN | H J |
| URTK / SS | H I J K |
| URTKD / SP | H J |
| USED 16 | H J |
| USED 27 | H J |
| USEN 14 | H J |
| USEN 18 | H J |
| USK / SGSK | H J |

| Label type, clamp and label profiles | |
|---|---|
| **A** KPX 4/10 Page 83 | 5 Chrs. |
| **B** KPX 4/10-4 Page 83 | 5 Chrs. |
| **C** KPX 5/5-5 ZS Page 84 | 3 Chrs. |
| **D** KPX 5/10-5 Page 83 | 5 Chrs. |
| **E** KPX 5/10-5 ZS Page 84 | 5 Chrs. |
| **F** KPX 5/15-5 Page 83 | 8 Chrs. |
| **G** KPX 6/5-6 ZS Page 84 | 3 Chrs. |
| **H** KPX 6/10 Page 83 | 5 Chrs. |
| **I** KPX 6/10-6 Page 83 | 5 Chrs. |
| **J** KPX 6/15 Page 83 | 8 Chrs. |
| **K** KPX 6/15-6 Page 83 | 8 Chrs. |
| **L** KPX 6/180 Page 84 | 100 Chrs. |
| **M** KPX 12/5-12 ZS Page 84 | 3 Chrs. |

| | | |
|---|---|---|
| **N** KWI 5/10 Page 86 | 5 Chrs. | |
| **O** KWI 6/10 Page 86 | 5 Chrs. | |
| **P** KPX 6/10-6 ZS Page 84 | 5 Chrs. | |
| **Q** KPX U/5 ZS Page 999 | 2-6 Chrs. | |

## Selection table terminal block labelling

| Phoenix terminal blocks/MP label types | |
|---|---|
| USK 4 FSR... | Ⓗ Ⓘ Ⓙ Ⓚ |
| USLKG 2.5 | Ⓗ Ⓘ Ⓙ Ⓚ |
| USLKG 2.5 - N | Ⓓ Ⓕ |
| USLKG 3 | Ⓓ Ⓕ |
| USLKG 4 | Ⓗ Ⓘ Ⓙ Ⓚ |
| USLKG 5 | Ⓗ Ⓘ Ⓙ Ⓚ |
| USLKG 10 (N) | Ⓗ Ⓙ |
| USLKG 16 | Ⓗ Ⓙ |
| USLKG 16 N | Ⓗ Ⓙ |
| USLKG 35 | Ⓗ Ⓙ |
| USLKG 50 | Ⓗ Ⓙ |
| USLKG 95 | Ⓗ Ⓙ |
| UT 10 | Ⓗ Ⓙ |
| UT 10 BU | Ⓗ Ⓙ |
| UT 10 PE | Ⓗ Ⓙ |
| UT 16 | Ⓗ Ⓙ |
| UT 16 BU | Ⓗ Ⓙ |
| UT 16 PE | Ⓗ Ⓙ |
| UT 2.5 | Ⓓ Ⓕ |
| UT 2.5 BU | Ⓓ Ⓕ |
| UT 2.5-QUATRO | Ⓓ Ⓕ |
| UT 2.5-QUATRO BU | Ⓓ Ⓕ |
| UT 35 | Ⓛ Ⓜ |
| UT 4 | Ⓗ Ⓙ |
| UT 4 BU | Ⓗ Ⓙ |
| UT 4 YE | Ⓗ Ⓙ |
| UT 4-MTD BU | Ⓗ Ⓙ |
| UT 4-MTD-PE | Ⓗ Ⓙ |
| UT 4 TWIN | Ⓗ Ⓙ |
| UT 4 TWIN-PE | Ⓗ Ⓙ |
| UT 6 | Ⓗ Ⓙ |
| UT 6 BU | Ⓗ Ⓙ |
| UT 6 PE | Ⓗ Ⓙ |
| UTK 35 | Ⓗ Ⓙ |
| UXKK 4 | Ⓗ Ⓘ Ⓙ Ⓚ |
| VBSN 4 FS .... | Ⓗ |
| VBST 4 FS / FS | Ⓗ |
| VIOK 1.5 | Ⓗ Ⓘ |
| VIOK 1.5-2D | Ⓗ Ⓘ |
| VIOK 1.5-3D/PE | Ⓗ Ⓘ |
| VIOK 1.5-D/TG/D/PE | Ⓖ Ⓗ Ⓘ Ⓛ |
| VIOK 1.5-LA | Ⓗ Ⓘ |
| ZDIK 1.5 | Ⓒ Ⓛ Ⓠ |
| ZDMTK 2.5 | Ⓖ Ⓛ Ⓠ |
| ZFDK 2.5 | Ⓓ |
| ZFDK -PE | Ⓓ |
| ZFKK 2.5 (-MT) | Ⓓ |
| ZVIOK 1.5 | Ⓒ Ⓔ Ⓛ Ⓠ |
| ZVIOK 1.5 - 2D | Ⓒ Ⓔ Ⓛ Ⓠ |
| ZVIOK 1.5 - D / TG / D / PE | Ⓒ Ⓔ Ⓛ Ⓠ |

| Phoenix terminal blocks/MP label types | |
|---|---|
| ZVIOK 1.5 - LA | Ⓒ Ⓔ Ⓛ Ⓠ |
| ZVIOK 1.5 / 1.5 LA | Ⓒ Ⓔ Ⓛ Ⓠ |
| ZVKK 4 FS | Ⓒ Ⓗ Ⓙ Ⓛ Ⓠ |

**Label type, clamp and label profiles**

Ⓝ KWI 5/10 — Page 86 — 5 Chrs.
Ⓞ KWI 6/10 — Page 86 — 5 Chrs.
Ⓟ KPX 6/10-6 ZS — Page 84 — 5 Chrs.
Ⓠ KPX U/5 ZS — Page 999 — 2-6 Chrs.

Ⓐ KPX 4/10 — Page 83 — 5 Chrs.
Ⓑ KPX 4/10-4 — Page 83 — 5 Chrs.
Ⓒ KPX 5/5-5 ZS — Page 84 — 3 Chrs.
Ⓓ KPX 5/10-5 — Page 83 — 5 Chrs.
Ⓔ KPX 5/10-5 ZS — Page 84 — 5 Chrs.
Ⓕ KPX 5/15-5 — Page 83 — 8 Chrs.
Ⓖ KPX 6/5-6 ZS — Page 84 — 3 Chrs.
Ⓗ KPX 6/10 — Page 83 — 5 Chrs.
Ⓘ KPX 6/10-6 — Page 83 — 5 Chrs.
Ⓙ KPX 6/15 — Page 83 — 8 Chrs.
Ⓚ KPX 6/15-6 — Page 83 — 8 Chrs.
Ⓛ KPX 6/180 — Page 84 — 100 Chrs.
Ⓜ KPX 12/5-12 ZS — Page 84 — 3 Chrs.

# Selection table terminal block labelling

## Overview of installation in terminal block pitch:

### Label plate KPX U/5-ZS
Suitable for: ZBFM family made by Phoenix

**Pitch 4.2** Software type: 180

C B A

5
10
20

**Pitch 5.2** Software type: 182

D C B A

5
10
15
20

**Pitch 6.2** Software type: 184

C B A

5
10
15

**Pitch 8.2** Software type: 186

A

1
10

**Pitch 10** Software type: 188

A

1
10

**Lengths on terminal block**
A: 21 mm
B: 42 mm
C: 84 mm

**Lengths on terminal block**
A: 26 mm
B: 52 mm
C: 78 mm
D: 104 mm

**Lengths on terminal block**
A: 31 mm
B: 62 mm
C: 93 mm

**Lengths on terminal block**
A: 82 mm

**Lengths on terminal block**
A: 100 mm

| Schlegel terminal blocks/MP label types | | Label type, clamp and label profiles | |
|---|---|---|---|
| FK16 | Ⓐ Ⓑ Ⓒ | IKAE4P24 | Ⓐ Ⓑ Ⓒ Ⓓ |
| IKSI4 | Ⓐ Ⓑ Ⓒ | IKH4 | Ⓐ Ⓑ Ⓒ Ⓓ |
| IKTR16 | Ⓐ Ⓑ Ⓒ | IKP | Ⓐ Ⓑ Ⓒ Ⓓ |
| IK16 | Ⓐ Ⓑ Ⓒ | IKTSP4 | Ⓐ Ⓑ Ⓒ Ⓓ |
| IKE16 | Ⓐ Ⓑ Ⓒ | IKEPP | Ⓐ Ⓑ Ⓒ Ⓓ |
| IKTRED | Ⓐ Ⓑ Ⓒ | IKTS4 | Ⓐ Ⓑ Ⓒ Ⓓ |
| IK25 | Ⓐ Ⓑ Ⓒ | IKT4 | Ⓐ Ⓑ Ⓒ Ⓓ |
| IK51 | Ⓐ Ⓑ Ⓒ | IKEPN | Ⓐ Ⓑ Ⓒ Ⓓ |
| IK70 | Ⓐ Ⓑ Ⓒ | IKEPT | Ⓐ Ⓑ Ⓒ Ⓓ |
| IZZ4 | Ⓐ Ⓑ Ⓒ | IFTR2.5 | Ⓐ Ⓑ |
| IK120 | Ⓐ Ⓑ Ⓒ | FK5 | Ⓐ Ⓑ Ⓒ |
| GKL3 | Ⓐ Ⓑ Ⓒ | IKTRE | Ⓐ Ⓑ Ⓒ |
| IK3 | Ⓐ Ⓑ Ⓒ | IKE4 | Ⓐ Ⓑ Ⓒ |
| HK3 | Ⓐ Ⓑ Ⓒ | IKE10 | Ⓐ Ⓑ Ⓒ |
| IF2.5 | Ⓐ Ⓑ | IKO4 | Ⓐ Ⓑ Ⓒ |
| IFE2.5 | Ⓐ Ⓑ | IKOTR4 | Ⓐ Ⓑ Ⓒ |
| IK240 | Ⓐ Ⓑ Ⓒ | IKOE4 | Ⓐ Ⓑ Ⓒ |
| IKI4P24 | Ⓐ Ⓑ Ⓒ Ⓓ | IKFSI5 | Ⓐ Ⓑ Ⓒ |
| IKI4N24 | Ⓐ Ⓑ Ⓒ Ⓓ | IKSI5 | Ⓐ Ⓑ Ⓒ |
| IKIT4 | Ⓐ Ⓑ Ⓒ Ⓓ | IK10 | Ⓐ Ⓑ Ⓒ |
| IK5 | Ⓐ Ⓑ Ⓒ Ⓓ | IKT10 | Ⓐ Ⓑ Ⓒ |
| IKI4 | Ⓐ Ⓑ Ⓒ Ⓓ | IKTR10 | Ⓐ Ⓑ Ⓒ |
| IKEPTR | Ⓐ Ⓑ Ⓒ Ⓓ | | |
| IKAE4 | Ⓐ Ⓑ Ⓒ Ⓓ | | |
| IKTR4 | Ⓐ Ⓑ Ⓒ Ⓓ | | |
| IKPP | Ⓐ Ⓑ Ⓒ Ⓓ | | |

**Label type, clamp and label profiles**

Ⓐ KMR 5/10 Page 82 — 5 Chrs.

Ⓑ KMR 5/10 FA Page 82 — 5 Chrs.

Ⓒ KMR 6/10 Page 82 — 5 Chrs.

Ⓓ KMR 6/10-6 Page 82 — 5 Chrs.

## Selection table terminal block labelling

| Siemens terminal blocks/MP label types | |
| --- | --- |
| 3TX7 004-1LB0 | **R** |
| 3TX7 004-1LF00 | **R** |
| 8WA1 011-0DF21 | **P** **Q** |
| 8WA1 011-0DG21 | **L** **N** |
| 8WA1 011-1BF23 | **P** **Q** |
| 8WA1 011-1DF11 | **P** **Q** |
| 8WA1 011-1DG11 | **L** **N** |
| 8WA1 011-3DF21 | **P** **Q** |
| 8WA1 011-3DG21 | **L** **N** |
| 8WA1 221 | **L** **N** |
| 8WA1 741-2X | **L** **N** |
| 8WA1... / 8WA2... | **L** **N** |
| 8WA2 011-1BJ | **L** **N** |
| 8WA2 011-1DF20 | **L** **M** **N** **O** |
| 8WA2 011-1DG20 | **P** **Q** |
| 8WA2 011-1DH20 | **L** **N** |
| 8WA2 011-3KE 10 | **L** **N** |
| OTTA 2.5 | **F** **I** |
| 8WH /1.5mm² | **A** |
| 8WH /2.5mm² | **B** **C** **D** |
| 8WH /4mm² | **D** **E** **H** |
| 8WH /6mm² | **J** |
| 8WH /8mm² | **K** |

**A** KPX 4.2/5-4.2 ZS — Page 83 — 3 Chrs.

**B** KPX 5/5-5 ZS — Page 84 — 3 Chrs.

### Label type, clamp and label profiles

**C** KPX 5/10-5 ZS — Page 84 — 5 Chrs.

**D** KPX 5/10-5...6 ZS — Page 84 — 5 Chrs.

**E** KPX 6/5-6 ZS — Page 84 — 3 Chrs.

**F** KPX 6/10 — Page 83 — 5 Chrs.

**G** KPX 6/10-6 — Page 83 — 5 Chrs.

**H** KPX 6/10-6 ZS — Page 84 — 5 Chrs.

**I** KPX 6/15 — Page 83 — 8 Chrs.

**J** KPX 8.2/5 ZS — Page 84 — 4 Chrs.

### Label type, clamp and label profiles

**K** KPX 10/5 ZS — Page 84 — 5 Chrs.

**L** KSI 5/7 — Page 85 — 3 Chrs.

**M** KSI 5/7-5 — Page 85 — 3 Chrs.

**N** KSI 5/10 — Page 85 — 5 Chrs.

**O** KSI 5/10-5 — Page 85 — 5 Chrs.

**P** KSI 6/7-6 — Page 85 — 3 Chrs.

**Q** KSI 6/10-6 — Page 85 — 5 Chrs.

**R** SKS 11x4 — Page 104 — 6 Chrs.

| Sprecher+Schuh term. blocks/MP label types | |
| --- | --- |
| V7-W3 | **A** **B** **C** **D** |
| V7-W4 | **E** **G** **F** **H** |
| V7-W6 | **E** **G** |
| V7-W10 | **E** **G** |
| V7-W16S | **E** **G** |
| V7-W35 | **E** **G** |
| V7-W70 | **E** **G** |
| V7-WG4 | **E** **G** **F** **H** |
| V7-WG6 | **E** **G** |
| V7-WG10S | **E** **G** |
| V7-WG16 | **E** **G** |
| V7-WG35 | **E** **G** |
| V7-WG-70 | **E** **G** |
| V7-WDG4C | **E** **G** **F** **H** |

### Label type, clamp and label profiles

**A** KWI 5/10 — Page 86 — 5 Chrs.

**B** KWI 5/10-5 — Page 86 — 5 Chrs.

**C** KWI 5/15 — Page 86 — 8 Chrs.

**D** KWI 5/15-5 — Page 86 — 5 Chrs.

### Label type, clamp and label profiles

**E** KWI 6/10 — Page 86 — 5 Chrs.

**F** KWI 6/10-6 — Page 86 — 5 Chrs.

**G** KWI 6/15 — Page 86 — 5 Chrs.

**H** KWI 6/15-6 — Page 86 — 5 Chrs.

# Selection table terminal block labelling

| Wago terminal blocks/MP label types | |
|---|---|
| 2002-1201 Top-Job | J K |
| 2002-1401 Top-Job | J K |
| 2004-1201 Top-Job | J K |
| 249-117 | J K |
| 264-711 | I |
| 264-714 Mini blue | I |
| 270-570 | I |
| 279-104 | D |
| 279-105 | D |
| 279-106 | D |
| 279-107 | D |
| 279-108 | D |
| 279-109 | D |
| 279-110 | D |
| 279-111 | D |
| 279-112 | D |
| 279-113 | D |
| 279-114 | D |
| 279-115 | D |
| 279-116 | D |
| 279-117 | D |
| 279-118 | D |
| 279-119 | D |
| 279-120 | D |
| 279-121 | D |
| 279-122 | D |
| 279-123 | D |
| 279-124 | D |
| 279-125 | D |
| 279-126 | D |
| 279-127 | D |
| 279-128 | D |
| 279-129 | D |
| 279-130 | D |
| 279-131 | D |
| 279-132 | D |
| 280-520 | J K |
| 280-560 | E K |
| 280-601 | E K |
| 280-607 | E K |
| 280-612 | E K |
| 280-622 | E K |
| 280-626 | E K |
| 280-641 | E K |
| 280-646 | E K |
| 280-649 | E K |
| 280-650 | E K |
| 280-651 | E K |
| 280-653 | E K |
| 280-654 | E K |

| Wago terminal blocks/MP label types | |
|---|---|
| 280-656 | E K |
| 280-671 | E K |
| 280-672 | E K |
| 280-676 | E K |
| 280-681 | E K |
| 280-683 | E K |
| 280-684 | E K |
| 280-685 | E K |
| 280-687 | E K |
| 280-695 | E K |
| 280-830 | E K |
| 280-831 | E K |
| 280-832 | E K |
| 280-833 | E K |
| 280-834 | E K |
| 280-835 | E K |
| 280-836 | E K |
| 280-837 | E K |
| 280-869 | E K |
| 280-870 | E K |
| 280-871 | E K |
| 280-874 | E K |
| 280-875 | E K |
| 280-876 | E K |
| 280-878 | E K |
| 280-880 | E K |
| 280-881 | E K |
| 280-882 | E K |
| 280-883 | E K |
| 280-884 | E K |
| 280-885 | E K |
| 280-901 | E J K |
| 280-902 | E K |
| 280-903 | E K |
| 280-904 | E K |
| 280-905 | E K |
| 280-906 | E K |
| 280-907 | E K |
| 280-912 | E K |
| 280-946 | E K |
| 281-601 | F |
| 281-604 | F |
| 281-607 | F |
| 281-611 | J |
| 281-631 | F |
| 281-652 | F |
| 281-653 | F |
| 281-654 | F |
| 281-657 | F |
| 281-659 | F |

| Label type, clamp and label profiles |
|---|
| **A** KMR 5/7.5-5 Page 82 — 4 Chrs. |
| **B** KMR 5/10 Page 82 — 5 Chrs. |
| **C** KMR 6/10 Page 82 — 5 Chrs. |
| **D** KPX 4/10 Page 83 — 5 Chrs. |
| **E** KPX 5/10-5 Page 83 — 5 Chrs. |
| **F** KPX 6/10 Page 83 — 5 Chrs. |
| **G** KWI 5/8.6-5 Page 86 — 4 Chrs. |
| **H** KWI 6/8.2-6 Page 86 — 4 Chrs. |
| **I** WGO 5/5-5 Page 87 — 3 Chrs. |
| **J** WGO 5/10-5 Page 87 — 5 Chrs. |
| **K** WGO 5/10-5F Page 87 — 5 Chrs. |
| **L** WGO 12/7 Page 87 — 6 Chrs. |

## Selection table terminal block labelling

| Wago terminal blocks/MP label types | | Wago terminal blocks/MP label types | |
|---|---|---|---|
| 281-660 | (F) | 284-687 | (F) |
| 281-663 | (F) | 284-901 | (F) |
| 281-664 | (F) | 284-902 | (F) |
| 281-666 | (F) | 284-904 | (F) |
| 281-668 | (F) | 284-907 | (F) |
| 281-678 | (F) | 285-195 | (J) (K) |
| 281-679 | (F) | 285-601 | (F) |
| 281-681 | (F) | 285-605 | (F) |
| 281-683 | (F) | 290-681 | (J) (K) |
| 281-684 | (F) | 750-xxx | (A) (B) (C) (I) (K) (L) |
| 281-685 | (F) | 769-237 | (I) |
| 281-686 | (F) | 775-641 | (G) (K) |
| 281-687 | (F) | 777-641 | (G) (H) (K) |
| 281-901 | (F) | 780-601 | (G) (J) (K) |
| 281-902 | (F) | 781-601 | (G) (H) (K) |
| 281-903 | (F) | 782-601 | (G) (H) (K) |
| 281-904 | (F) | 782-604 | (G) (H) (K) |
| 281-905 | (F) | 782-607 | (G) (H) (K) |
| 281-906 | (F) | 783-601 | (G) (H) (K) |
| 281-907 | (F) | 783-604 | (G) (H) (K) |
| 281-912 | (F) | 783-607 | (G) (H) (J) (K) |
| 282-601 | (F) | 784-601 | (G) (H) (K) |
| 282-604 | (F) | 785-601 | (G) (H) (J) |
| 282-607 | (F) | 870-501 | (B) (K) |
| 282-681 | (F) | 870-507 | (B) |
| 282-682 | (F) | 870-531 | (I) |
| 282-684 | (F) | 870-538 | (I) |
| 282-687 | (F) | 870-551 | (B) |
| 282-901 | (F) | 870-567 | (K) |
| 282-902 | (F) | 870-831 | (K) |
| 282-904 | (F) | 870-901 | (K) |
| 282-907 | (F) | 880-901 | (B) |
| 283-602 | (F) | 2006-1201 | (J) (K) |
| 283-604 | (F) | 2006-1202 | (J) (K) |
| 283-607 | (F) | 2006-1204 | (J) (K) |
| 283-609 | (F) | 2006-1207 | (J) (K) |
| 283-671 | (F) | 2006-1301 | (J) (K) |
| 283-672 | (F) | 2006-1302 | (J) (K) |
| 283-674 | (F) | 2006-1304 | (J) (K) |
| 283-677 | (F) | 2006-1307 | (J) (K) |
| 283-901 | (F) | 2006-1601 | (J) (K) |
| 283-902 | (F) | 2006-1604 | (J) (K) |
| 283-904 | (F) | 2016-1201 | (J) (K) |
| 283-907 | (F) | 2016-1202 | (J) (K) |
| 284-601 | (F) | 2016-1204 | (J) (K) |
| 284-604 | (F) | 2016-1207 | (J) (K) |
| 284-607 | (F) | 2016-1301 | (J) (K) |
| 284-681 | (F) | 2016-1302 | (J) (K) |
| 284-682 | (F) | 2016-1304 | (J) (K) |
| 284-684 | (F) | 2016-1307 | (J) (K) |

**Label type, clamp and label profiles**

| | Label type | Page | Chrs. |
|---|---|---|---|
| (A) | KMR 5/7.5-5 | Page 82 | 4 Chrs. |
| (B) | KMR 5/10 | Page 82 | 5 Chrs. |
| (C) | KMR 6/10 | Page 82 | 5 Chrs. |
| (D) | KPX 4/10 | Page 83 | 5 Chrs. |
| (E) | KPX 5/10-5 | Page 83 | 5 Chrs. |
| (F) | KPX 6/10 | Page 83 | 5 Chrs. |
| (G) | KWI 5/8.6-5 | Page 86 | 4 Chrs. |
| (H) | KWI 6/8.2-6 | Page 86 | 4 Chrs. |
| (I) | WGO 5/5-5 | Page 87 | 3 Chrs. |
| (J) | WGO 5/10-5 | Page 87 | 5 Chrs. |
| (K) | WGO 5/10-5F | Page 87 | 5 Chrs. |
| (L) | WGO 12/7 | Page 87 | 6 Chrs. |

# Selection table terminal block labelling

## Wago terminal blocks/MP label types

| | |
|---|---|
| 2016-7114 | J K |
| 2016-7601 | J K |
| 2016-7604 | J K |
| 2016-7607 | J K |
| 2016-7711 | J K |
| 2016-7714 | J K |
| X-Com System base terminal block | K |

## Label type, clamp and label profiles

**A** KMR 5/7.5-5 Page 82 — 4 Chrs.

**B** KMR 5/10 Page 82 — 5 Chrs.

**C** KMR 6/10 Page 82 — 5 Chrs.

**D** KPX 4/10 Page 83 — 5 Chrs.

**E** KPX 5/10-5 Page 83 — 5 Chrs.

**F** KPX 6/10 Page 83 — 5 Chrs.

## Label type, clamp and label profiles

**G** KWI 5/8.6-5 Page 86 — 4 Chrs.

**H** KWI 6/8.2-6 Page 86 — 4 Chrs.

**I** WGO 5/5-5 Page 87 — 3 Chrs.

**J** WGO 5/10-5 Page 87 — 5 Chrs.

**K** WGO 5/10-5F Page 87 — 5 Chrs.

**L** WGO 12/7 Page 87 — 6 Chrs.

## Weidmüller terminal blocks/MP label types

| | |
|---|---|
| AKZ 4../ AKB 4… | H I J K |
| BZT ZVL 1.5 | C F |
| DLA 2.5 | H I J K |
| DLD 2.5 | H I J K |
| DLI 2.5 | H I J K |
| EK 2.5 | H I J K |
| EK 6 | H J |
| EK 10 | H J |
| EK 16 | H J |
| EK 35 | H J |
| EW15 | C F |
| EW 15/2   No adaptation | |
| EW35 | H J |
| EWK1 | H J |
| EWK2 | H J |
| IAK 1.5N 3L | C F |
| IDK 1.5 | C |
| IDK 1.5N | C F |
| IDK 1.5N/V | C F |
| IDU 1.5N | C F |
| IDU 2.5N | H |
| IEK 1.5N | C |

## Label type, clamp and label profiles

**A** KMR 3.5/7.5-3.5 Page 82 — 4 Chrs.

**B** KMR 5/7.5-5 Page 82 — 4 Chrs.

**C** KMR 5/10 Page 82 — 5 Chrs.

**D** KMR 5/10 FA Page 82 — 5 Chrs.

**E** KMR 5/10-5 Page 82 — 5 Chrs.

**F** KMR 5/15 Page 82 — 8 Chrs.

## Label type, clamp and label profiles

**G** KMR 5/15-5 Page 82 — 8 Chrs.

**H** KMR 6/10 Page 82 — 5 Chrs.

**I** KMR 6/10-6 Page 82 — 5 Chrs.

**J** KMR 6/15 Page 82 — 8 Chrs.

**K** KMR 6/15-6 Page 82 — 8 Chrs.

**L** KSS 20x9 Page 105 — 11 Chrs.

## Selection table terminal block labelling

| Weidmüller terminal blocks/MP label types | |
|---|---|
| IIK 1.5N | C |
| IPE 1.5N | C |
| IPE 2.5N | H |
| ITR 1.5N | C |
| MAK 2.5 | H I J K |
| Mak 2.5/VLI 1.5 | H I J K |
| NT 4 | H I J K |
| NT 6 | H J |
| NT 10 | H J |
| NT 16 | H J |
| SAI-4-N 170592 | L |
| SAI-8-N | L |
| SAI-M16 / M23 in SAI-M8 | H |
| SAK 2.5 | H I J K |
| SAK 4 | H J |
| SAK 6 | H J |
| SAK 10 (PA) | H J |
| SAK 16 | H J |
| SAK 35 | H J |
| SAK 70 | H J |
| SAK 95 | H J |
| SAKA 10 | H J |
| SAKB 10 | H J |
| SAKC 4 | H J |
| SAKC 10 | H J |
| SAKD 2.5 N | B C E F G |
| SAKG 28 | H J |
| SAKG 32 | H J |
| SAKG 40 | H J |
| SAKG 46 | H J |
| SAKG 54 | H J |
| SAKG 70 | H J |
| SAKR | H J |
| SAKRD | H J |
| SAKS 1 | H J |
| SAKS 2 | H J |
| SAKS 3 | H J |
| SAKS 4 | H J |
| SAKS 5 | H J |
| SAKT 1 | H J |
| SAKT 2 | H J |
| SAKT 4 | H I J K |
| SS 6 | H J |
| SS 8 | H J |
| SS 10 | H J |
| SS 12 | H J |
| TOP 2.5 | H J |
| TOP 4 | H I J K |
| VLI 2.5 | H I J K |
| WDK 1.5 / 3.5 | A |

| Weidmüller terminal blocks/MP label types | |
|---|---|
| WDK 2.5 | B C D E F G |
| WDK 2.5 800V | H I J K |
| WDK 2.5 BLA R5.08 | B C E F G |
| WDK 2.5 BLZ R5.08 | B C E F G |
| WDK 2.5N | B C E F G |
| WDK 4N | H I J K |
| WDL 2.5 | B C E F G |
| WDL 2.5 / S | B C E F G |
| WDT 1.5 | H J |
| WDTR 2.5 | H |
| WDU 1.5 | B C E F G |
| WDU 1.5 BLA | B C E F G |
| WDU 1.5 LD/BLA | B C E F G |
| WDU 1.5/BLZ 5.08 | B C E F G |
| WDU 1.5/BLZ R7.62 | B C E F G |
| WDU 1.5/BLZ/LD/5.08 | B C E F G |
| WDU 1.5/R 3.5 | A |
| WDU 1.5/R/BLA | B C E F G |
| WDU 1.5ZZ | B C E F G |
| WDU 2.5 | B C E F G |
| WDU 2.5 F | B C E F G |
| WDU 2.5 FF | B C E F G |
| WDU 2.5 N | B C E F G |
| WDU 2.5 TC | B C E F G |
| WDU 2.5/1.5/ZZ | B C E F G |
| WDU 4 | H I J K |
| WDU 4N | H I J K |
| WDU 6 | H J |
| WDU 10 | H J |
| WDU 10SL | H J |
| WDU 16 | H J |
| WDU 35 N | H J |
| WDU 70/95 | H J |
| WDU 95N | C |
| WDU 120/150 | H J |
| WDU 240 | C |
| WFF 35 | H J |
| WFF 70 | H J |
| WFF 120 | H J |
| WFF 185 | H J |
| WFF 300 | H J |
| WIN BLOCK | B C E F G |
| WNT 2.5 | B C E F G |
| WNT 4 | B C E F G |
| WNT 6 | H J |
| WNT 10 | H J |
| WPE 1.5 | B C E F G |
| WPE 1.5/ZZ | B C E F G |
| WPE 2.5 | B C E F G |
| WPE 2.5/1.5/ZR | B C E F G |

| Label type, clamp and label profiles |
|---|
| **A** KMR 3.5/7.5-3.5 — Page 82 — 4 Chrs. |
| **B** KMR 5/7.5-5 — Page 82 — 4 Chrs. |
| **C** KMR 5/10 — Page 82 — 5 Chrs. |
| **D** KMR 5/10 FA — Page 82 — 5 Chrs. |
| **E** KMR 5/10-5 — Page 82 — 5 Chrs. |
| **F** KMR 5/15 — Page 82 — 8 Chrs. |
| **G** KMR 5/15-5 — Page 82 — 8 Chrs. |
| **H** KMR 6/10 — Page 82 — 5 Chrs. |
| **I** KMR 6/10-6 — Page 82 — 5 Chrs. |
| **J** KMR 6/15 — Page 82 — 8 Chrs. |
| **K** KMR 6/15-6 — Page 82 — 8 Chrs. |
| **L** KSS 20x9 — Page 105 — 11 Chrs. |

# Selection table terminal block labelling

| Weidmüller terminal blocks/MP label types | |
|---|---|
| WPE 4 | Ⓗ Ⓘ Ⓙ Ⓚ |
| WPE 6 | Ⓗ Ⓙ |
| WPE 10 | Ⓗ Ⓙ |
| WPE 16 | Ⓗ Ⓙ |
| WPE 35 | Ⓗ Ⓙ |
| WSI 6 | Ⓗ Ⓙ |
| WSI 6/2 | Ⓗ Ⓙ |
| WTL 6/1 | Ⓗ Ⓙ |
| WTL 6/2 | Ⓗ Ⓙ |
| WTR 2.5 | Ⓑ Ⓒ Ⓔ Ⓕ Ⓖ |
| ZBLD 2.5/1.5 | Ⓓ |
| ZDK 1.5  xxx | Ⓐ |
| ZDK 2.5/1.5 | Ⓓ |
| ZDK 2.5/1.5 DU-PE | Ⓓ |
| ZDK 2.5/1.5 N-PE | Ⓓ |
| ZDK 2.5/1.5 V / E | Ⓓ |
| ZDK 2.5/1.5/E | Ⓓ |
| ZDK 2.5/1.5/E BL | Ⓓ |
| ZDK 2.5/1.5/LD/1 | Ⓓ |
| ZDK 2.5/1.5/LD/2 | Ⓓ |
| ZDK 2.5/1.5/N-PE/E | Ⓓ |
| ZDK 2.5/1.5D1...6 | Ⓓ |
| ZDK 2.5/1.5N-DU | Ⓓ |
| ZDK 2.5/1.5N-DU/E | Ⓓ |
| ZDK 2.5/1.5N-DU-PE/E | Ⓓ |
| ZDK 2.5/1.5PE | Ⓓ |
| ZDK 2.5/1.5V | Ⓓ |
| ZDKB | Ⓓ |
| ZDKS | Ⓓ |
| ZDLD 2.5 / 1.5 | Ⓓ |
| ZDLD 2.5 / 1.5 V | Ⓓ |
| ZDU 1.5 | Ⓐ |
| ZDU 2.52.5/10 | Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ |
| ZDU 2.5/2x2AN | Ⓓ |
| ZDU 2.5/2x2AN (/E) BL | Ⓓ |
| ZDU 2.5/2x2AN/10 | Ⓓ |
| ZDU 2.5/2x2AN/D | Ⓓ |
| ZDU 2.5/2x2AN/E | Ⓓ |
| ZDU 2.5/2x2AN/LD | Ⓓ |
| ZDU 2.5/3AN | Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ |
| ZDU 2.5/3AN (/E) BL | Ⓓ |
| ZDU 2.5/3AN/10 | Ⓓ |
| ZDU 2.5/3AN/E | Ⓓ |
| ZDU 2.5/4AN | Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ |
| ZDU 2.5/4AN (/E) BL | Ⓓ |
| ZDU 2.5/4AN/10 | Ⓓ |
| ZDU 2.5-2/3 | Ⓓ |
| ZDU 2.5-2/3AN (/E) BL | Ⓓ |
| ZDU 2.5-2/4AN (/E) | Ⓓ |
| ZDU 2.5-2/4AN (/E) BL | Ⓓ |

| Weidmüller terminal blocks/MP label types | |
|---|---|
| ZDU 2.5 (/E) | Ⓓ |
| ZDU 2.5 (/E) BL | Ⓓ |
| ZDU 2.5-2 | Ⓑ Ⓒ Ⓔ |
| ZDU 4 | Ⓗ Ⓘ |
| ZDU 6 | Ⓗ |
| ZDU 10 NT | Ⓓ |
| ZDU 16    16/3AN | Ⓒ |
| ZDU 35 | Ⓒ |
| ZDUA 2.5-2 (/E) | Ⓓ |
| ZDUA 2.5-2 (/E) BL | Ⓓ |
| ZDUB 2.5 / 2-2/4AN | Ⓓ |
| ZDUB 2.5 / 2AN | Ⓓ |
| ZDUB 2.5-2/2AN | Ⓓ |
| ZEW 35 | Ⓗ Ⓘ |
| ZIA 1.5/.... | Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ |
| ZK3S | Ⓓ |
| ZKB | Ⓓ |
| ZKS | Ⓓ |
| ZPE 2.5/4AN | Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ |
| ZPE 2.5 | Ⓓ |
| ZPE 2.5/3AN | Ⓓ |
| ZPE 2.5/3AN/E | Ⓓ |
| ZPE 2.5/4AN | Ⓓ |
| ZPE 2.5/4AN/E | Ⓓ |
| ZPE 2.5/E | Ⓓ |
| ZPE 2.5-2 (/E) | Ⓓ |
| ZPE 2.5-2/3AN | Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ |
| ZPE 2.5-2/3AN/E | Ⓓ |
| ZPE 2.5-2/4AN | Ⓓ |
| ZPE 35 | Ⓓ |
| ZPEA -2/E | Ⓓ |
| ZRV 1.5 | Ⓓ |
| ZRV 1.5PE | Ⓓ |
| ZSI 2.5 | Ⓓ |
| ZSI 2.5/2 | Ⓓ |
| ZSLD 2.5/1.5 | Ⓓ |
| ZTR 2.5 | Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ |
| ZTR 2.5 D | Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ |
| ZTR 2.5/3AN | Ⓓ |
| ZVL 1.5 .... | Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ |

| Label type, clamp and label profiles | | |
|---|---|---|
| Ⓐ KMR 3.5/7.5-3.5 Page 82 | 4 Chrs. | |
| Ⓑ KMR 5/7.5-5 Page 82 | 4 Chrs. | |
| Ⓒ KMR 5/10 Page 82 | 5 Chrs. | |
| Ⓓ KMR 5/10 FA Page 82 | 5 Chrs. | |
| Ⓔ KMR 5/10-5 Page 82 | 5 Chrs. | |
| Ⓕ KMR 5/15 Page 82 | 8 Chrs. | |
| Ⓖ KMR 5/15-5 Page 82 | 8 Chrs. | |
| Ⓗ KMR 6/10 Page 82 | 5 Chrs. | |
| Ⓘ KMR 6/10-6 Page 82 | 5 Chrs. | |
| Ⓙ KMR 6/15 Page 82 | 8 Chrs. | |
| Ⓚ KMR 6/15-6 Page 82 | 8 Chrs. | |
| Ⓛ KSS 20x9 Page 105 | 11 Chrs. | |

## Selection table terminal block labelling

| Wieland terminal blocks/MP label types | |
|---|---|
| 9700 A S35 | B F |
| 97050 AI | A |
| WK 2.5/ U | B C D E |
| WK 4/ U | F G H I |
| WK 6/ U | F H |
| WK 8/ U | F H |
| WK 10/ U | F H |
| WK 25/ U | F H |
| WK 35/ U | F H |
| WKF 2.5/3.5 | B C |
| WKF 2.5 SL/3.5 | B C |
| WKF 4/35 | G J |
| WKF 4 SL/35 | G J |
| WKF 6/35 | G J |
| WKF 6 SL/35 | G J |
| WKF 10/35 | G J |
| WKF 10 SL/35 | G J |
| WKF 16/35 | G J |
| WKF 16 SL/35 | G J |
| WKFN 2.5 E/35 | B C |
| WKFN 2.5 E/SL/35 | G J |
| WKFN 4 E/35 | G J |
| WKFN 4 E/SL/35 | G J |
| WKIF 2.5 D | J |

| Label type, clamp and label profiles | | |
|---|---|---|
| A KWI 5/8.6-5 Page 86 | 4 Chrs. | |
| B KWI 5/10 Page 86 | 5 Chrs. | |
| C KWI 5/10-5 Page 86 | 5 Chrs. | |
| D KWI 5/15 Page 86 | 8 Chrs. | |
| E KWI 5/15-5 Page 86 | 5 Chrs. | |

| Label type, clamp and label profiles | | |
|---|---|---|
| F KWI 6/10 Page 86 | 5 Chrs. | |
| G KWI 6/10-6 Page 86 | 5 Chrs. | |
| H KWI 6/15 Page 86 | 5 Chrs. | |
| I KWI 6/15-6 Page 86 | 5 Chrs. | |
| J KWI 6/8.2-6 Page 86 | 4 Chrs. | |

| Woertz terminal blocks/MP label types | |
|---|---|
| 2711 | F |
| 30150BL | B |
| 30150E | B |
| 30150GR | B |
| 30400 | A |
| 30401 | A |
| 30402 | A |
| 30403 | A |
| 30404 | A |
| 30405 | A |
| 30430 | C |
| 30431 | C |
| 30432 | C |
| 30433 | C |
| 30434 | C |
| 30544 / 4 V | D |
| 30544 / 6 V | D |
| 30544 / 10 V | D |
| 30800 | D E |
| 30840 | E |
| 30841 | E |
| 30842 | E |

| Woertz terminal blocks/MP label types | |
|---|---|
| 30843 | E |
| 30844 | E |
| 30860 | B |
| 30880 | B |
| 30890 | C |
| 30891 | C |
| 3410 | C |
| 3430 | C |
| 3450BL | C |
| 3450GR | C |

| Label type, clamp and label profiles | | |
|---|---|---|
| A KAB 5/5.4-5 Page 79 | 3 Chrs. | |
| B KAB 5/9-5 Page 79 | 5 Chrs. | |
| C KAB 6/9-6 Page 79 | 5 Chrs. | |
| D KAB 6/12 Page 79 | 6 Chrs. | |
| E KAB 6/12-6 Page 79 | 6 Chrs. | |
| F WGO 5/5-5 Page 87 | 3 Chrs. | |

# Type KAB

**-40 to 140 °C**

**PC**

**V0**

**Halogen-free terminal block labelling**

High-quality, halogen-free snap-in label plates.
Labels available for mounting individually or in strips.
The large printable area at the top allows room for individual project and terminal block reference, dispensing with the need for additional organisational systems.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **single labels** | | | | | | | | | | |
| KAB 6/12 | 86402014 | white | 9016 | 6x12 | 6x12 | 6/1 | 4 | 72 | 112 | 1000 |
| | | | | | | | | | | |
| **5 mm-pitch strips** | | | | | | | | | | |
| KAB 5/5.4-5 | 86402004 | white | 9016 | 5x5.4 | 5x5.4 | 3/1 | 5 | 110 | 55 | 1430 |
| KAB 5/9-5 | 86402006 | white | 9016 | 5x9 | 5x9 | 5/1 | 4 | 88 | 110 | 1400 |
| KAB 5/12-5 | 86402008 | white | 9016 | 5x12 | 5x12 | 6/1 | 4 | 88 | 111 | 1400 |
| | | | | | | | | | | |
| **6 mm-pitch strips** | | | | | | | | | | |
| KAB 6/9-6 * | 86402010 | white | 9016 | 6x9 | 6x9 | 5/1 | 4 | 72 | 50 | 1000 |
| KAB 6/10-6 * | 86402022 | white | 9016 | 6x10 | 6x10 | 5/1 | 4 | 72 | 56 | 1000 |
| KAB 6/12-6 * | 86402012 | white | 9016 | 6x12 | 6x12 | 6/1 | 4 | 72 | 51 | 1000 |
| | | | | | | | | | | |
| **8 mm-pitch strips** | | | | | | | | | | |
| KAB 8/9-8 | 86402016 | white | 9016 | 8x9 | 8x9 | 5/1 | 4 | 52 | 53 | 1040 |
| KAB 8/12-8 | 86402018 | white | 9016 | 8x12 | 8x12 | 6/1 | 4 | 52 | 54 | 1040 |

\* also compatible with: Woertz, Weidmüller (only WDU, WPU)

Consult labelling system for suitable base plates

## Type KET

-40 to 140 °C

PC

V0

Halogen-free terminal block labelling

High-quality, halogen-free snap-in label plates.
The large printable area at the top allows room for individual project and terminal block reference, dispensing with the need for additional organisational systems.
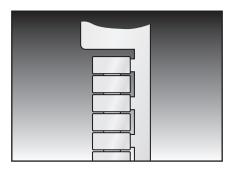
| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **5 mm-pitch strips, linked** | | | | | | | | | | |
| KET 5/10-5 | 86402610 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 84 | 121 | 1428 |
| **6 mm-pitch strips, linked** | | | | | | | | | | |
| KET 6/10-6 | 86402620 | white | 9016 | 6x10 | 6x10 | 5/1 | 4 | 72 | 122 | 2016 |
| **8 mm-pitch strips, ordered** | | | | | | | | | | |
| KET 8/10-8 | 86402630 | white | 9016 | 8x10 | 8x10 | 5/1 | 4 | 56 | 123 | 1512 |

Consult labelling system for suitable base plates

# Type KLG

-40 to 140 °C

PC

V0

Halogen-free terminal block labelling

High-quality, halogen-free snap-in label plates.
The large printable area at the top allows room for individual project and terminal block reference, dispensing with the need for additional organisational systems.

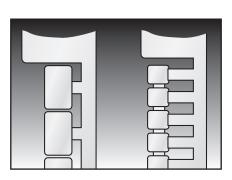| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|------------|-----------------|---------------------|----------------------|-----------|---------------|--------------|-----------|
| **single labels** | | | | | | | | | | |
| KLG 5/10 | 86421022 | white | 9016 | 5x10 | 5x10 | 5 /1 | 4 | 64 | 098 | 1024 |
| | | | | | | | | | | |
| Consult labelling system for suitable base plates | | | | | | | | | | |

## Type KMR

-40 to 140 °C

PC

V0

Halogen-free terminal block labelling

High-quality, halogen-free snap-in label plates.
Labels available for mounting individually or in strips.
The large printable area at the top allows room for individual project and terminal block reference, dispensing with the need for additional organisational systems.
Label plates designated as "5 - 6 mm-pitch strips" can be adapted to terminal block widths of 5 mm or 6 mm by means of a flexible connection.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **single labels** | | | | | | | | | | |
| KMR 5/10 | 86401010 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 64 | 30 | 1000 |
| KMR 5/15 | 86401014 | white | 9016 | 5x15 | 5x15 | 8/1 | 4 | 64 | 31 | 1000 |
| KMR 6/10 | 86401018 | white | 9016 | 6x10 | 6x10 | 5/1 | 4 | 64 | 32 | 1000 |
| KMR 6/15 | 86401022 | white | 9016 | 6x15 | 6x15 | 8/1 | 4 | 64 | 33 | 1000 |
| KMR 5/10 FA | 86401032 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 64 | 160 | 1024 |
| **3.5 mm-pitch strips** | | | | | | | | | | |
| KMR 3.5/7.5-3.5 | 86401034 | white | 9016 | 3.5x7.5 | 3.5x7.5 | 4/1 | 4 | 120 | 161 | 1200 |
| **5 mm-pitch strips** | | | | | | | | | | |
| KMR 5/7.5-5 | 86401026 | white | 9016 | 5x7.5 | 5x7.5 | 4/1 | 4 | 88 | 34 | 1400 |
| KMR 5/7.5-5 | 86401036 | yellow | 1018 | 5x7.5 | 5x7.5 | 4/1 | 4 | 88 | 34G | 1400 |
| KMR 5/10-5 | 86401012 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 88 | 35 | 1400 |
| KMR 5/15-5 | 86401016 | white | 9016 | 5x15 | 5x15 | 8/1 | 4 | 88 | 36 | 1400 |
| KMR 5/15-5 | 86401017 | yellow | 1018 | 5x15 | 5x15 | 8/1 | 4 | 88 | 36G | 1400 |
| **5 - 6 mm-pitch strips** | | | | | | | | | | |
| KMR 5/10-5...6 | 86401038 | white | 9016 | 4x10 | 4x10 | 5/1 | 4 | 88 | 35U | 1400 |
| **6 mm-pitch strips** | | | | | | | | | | |
| KMR 6/10-6 | 86401020 | white | 9016 | 6x10 | 6x10 | 5/1 | 4 | 72 | 37 | 1000 |
| KMR 6/15-6 | 86401024 | white | 9016 | 6x15 | 6x15 | 8/1 | 4 | 72 | 38 | 1000 |
| **6.7 mm-pitch strips** | | | | | | | | | | |
| KMR 6/15-6.7 | 86401028 | white | 9016 | 6x15 | 6x15 | 8/1 | 4 | 64 | 39 | 1700 |
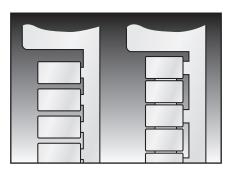
# Type KPX

**-40 to 140 °C**
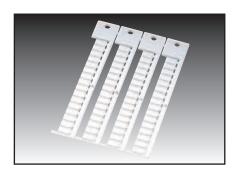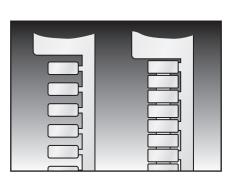
**PC**

**V0**

**Halogen-free terminal block labelling**

High-quality, halogen-free snap-in label plates. Labels available for mounting individually or in strips. The large printable area at the top allows room for individual project and terminal block reference, dispensing with the need for additional organisational systems.

Label plates designated as "5 - 6 mm-pitch strips" can be adapted to terminal block widths of 5 mm or 6 mm by means of an extension spring joint.

Label plates designated as "Universal strips" can be used on various different terminal block widths. Overview of installation options in the appendix.

The 6/180 labelling strips can be printed with a laser printer set up for the required terminal block width.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **single labels** | | | | | | | | | | |
| KPX 4/10 | 86401224 | white | 9016 | 4x10 | 4x10 | 5/1 | 4 | 64 | 97 | 1024 |
| KPX 6/10 | 86401214 | white | 9016 | 6x10 | 6x10 | 5/1 | 4 | 64 | 40 | 1000 |
| KPX 6/15 | 86401218 | white | 9016 | 6x15 | 6x15 | 8/1 | 4 | 64 | 41 | 1000 |
| | | | | | | | | | | |
| **4 mm-pitch strips** | | | | | | | | | | |
| KPX 4/10-4 | 86401226 | white | 9016 | 4x10 | 4x10 | 5/1 | 4 | 100 | 98 | 1400 |
| | | | | | | | | | | |
| **4.2 mm-pitch strips** | | | | | | | | | | |
| KPX 4.2/5-4.2 ZS | 86401248 | white | 9016 | 4.2x5 | 4.2x5 | 3/1 | 5 | 125 | 47Z | 2500 |
| | | | | | | | | | | |
| **5 mm-pitch strips** | | | | | | | | | | |
| KPX 5/10-5 | 86401210 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 88 | 42 | 1400 |
| KPX 5/10-5 | 86401211 | yellow | 1018 | 5x10 | 5x10 | 5/1 | 4 | 88 | 42G | 1400 |
| KPX 5/15-5 | 86401212 | white | 9016 | 5x15 | 5x15 | 8/1 | 4 | 88 | 43 | 1400 |
| | | | | | | | | | | |
| **5 - 6 mm-pitch strips** | | | | | | | | | | |
| KPX 5/10-5...6 | 86401242 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 88 | 42U | 1400 |
| KPX 5/10-5…6 ZS | 86401244 | white | 9016 | 5x10 | 4x10 | 5/1 | 4 | 88 | 43U | 1400 |
| | | | | | | | | | | |
| **6 mm-pitch strips** | | | | | | | | | | |
| KPX 6/10-6 | 86401216 | white | 9016 | 6x10 | 6x10 | 5/1 | 4 | 72 | 44 | 1000 |
| KPX 6/15-6 | 86401220 | white | 9016 | 6x15 | 6x15 | 8/1 | 4 | 72 | 45 | 1000 |
| | | | | | | | | | | |
| **6.8 mm-pitch strips** | | | | | | | | | | |
| KPX 6/10-6.8 | 86401222 | white | 9016 | 6x10 | 6x10 | 5/1 | 4 | 64 | 46 | 1000 |

## Type KPX

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **single labels, flat base** | | | | | | | | | | |
| KPX 8.2/5 ZS | 86401252 | white | 9016 | 8.2x5 | 8.2x5 | 4/1 | 5 | 65 | 48Z | 1040 |
| KPX 10/5 ZS | 86401246 | white | 9016 | 10x5 | 10x5 | 6/1 | 5 | 55 | 41Z | 1320 |
| | | | | | | | | | | |
| **5 mm-pitch strips, flat base** | | | | | | | | | | |
| KPX 5/5-5 ZS | 86401232 | white | 9016 | 5x5 | 5x5 | 3/1 | 5 | 110 | 42Z | 2090 |
| KPX 5/5-5 ZS | 86401233 | yellow | 1018 | 5x5 | 5x5 | 3/1 | 5 | 110 | 43G | 2090 |
| KPX 5/10-5 ZS | 86401234 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 88 | 43Z | 1400 |
| | | | | | | | | | | |
| **5-6 mm-pitch strips, flat base** | | | | | | | | | | |
| KPX 5/10-5…6 ZS | 86401244 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 88 | 43U | 1400 |
| | | | | | | | | | | |
| **6 mm-pitch strips, flat base** | | | | | | | | | | |
| KPX 6/5-6 ZS | 86401228 | white | 9016 | 6x5 | 6x5 | 3/1 | 5 | 90 | 44Z | 2070 |
| KPX 6/10-6 ZS | 86401236 | white | 9016 | 6x10 | 6x10 | 5/1 | 4 | 72 | 45Z | 1000 |
| | | | | | | | | | | |
| **12 mm-pitch strips, flat base** | | | | | | | | | | |
| KPX 12/5-12 ZS | 86401240 | white | 9016 | 12x5 | 12x5 | 3/1 | 5 | 45 | 46Z | 1080 |
| | | | | | | | | | | |
| **Universal strips** | | | | | | | | | | |
| KPX U/5-ZS | 86401230 | white | 9016 | 4.2x5 | 4x5 | 2/1 | 5 | 100 | 180 | 2000 |
| | | | | | 5.2x5 | 5x5 | 3/1 | 5 | 100 | 182 | 2000 |
| | | | | 6.2x5 | 6x5 | 4/1 | 5 | 100 | 184 | 1500 |
| | | | | 8.2x5 | 8x5 | 5/1 | 5 | 100 | 186 | 1000 |
| | | | | 10x5 | 10x5 | 6/1 | 5 | 100 | 188 | 1000 |
| | | | | | | | | | | |
| **Labelling strip for plotters and laser printers** | | | | | | | | | | |
| KPX 6/180 | 86402510 | white | 9016 | 6x180 | 6x180 | 100 /1 | 1 | 20 | 180 | 100 |
| For 3.5 mm-pitch | | | | | 6x3.5 | 51x1 / 1 | 1 | | 181 | |
| For 4 mm-pitch | | | | | 6 x 4 | 45x2 / 1 | 1 | | 182 | |
| For 5 mm-pitch | | | | | 6x5 | 36x3 / 1 | 1 | | 183 | |
| For 5.08 mm-pitch | | | | | 6x5.08 | 35x3 / 1 | 1 | | 184 | |
| For 6 mm-pitch | | | | | 6x6 | 30x3 / 1 | 1 | | 185 | |
| For 8 mm-pitch | | | | | 6x8 | 22x4 / 1 | 1 | | 186 | |
| For 10 mm-pitch | | | | | 6x10 | 18x5 / 1 | 1 | | 187 | |

Consult labelling system for suitable base plates

# Type KSI

**-40 to 140 °C**

PC

V0
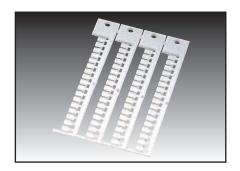
Halogen-free terminal block labelling
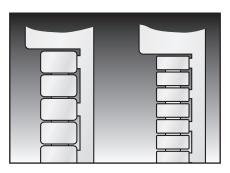
High-quality, halogen-free snap-in label plates.
Labels available for mounting individually or in strips.
The large printable area at the top allows room for individual project and terminal block reference, dispensing with the need for additional organisational systems.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|------------|-----------------|---------------------|----------------------|-----------|---------------|---------------|-----------|
| **single labels** | | | | | | | | | | |
| KSI 5/7 | 86401610 | white | 9016 | 5x7 | 5x7 | 3/1 | 4 | 68 | 47 | 1020 |
| KSI 5/10 | 86401612 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 68 | 48 | 1020 |
| | | | | | | | | | | |
| **5 mm-pitch strips** | | | | | | | | | | |
| KSI 5/7-5 | 86401620 | white | 9016 | 5x7 | 5x7 | 3/1 | 4 | 84 | 133 | 1260 |
| KSI 5/10-5 | 86401624 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 84 | 132 | 1260 |
| | | | | | | | | | | |
| **6 mm-pitch strips** | | | | | | | | | | |
| KSI 6/7-6 | 86401630 | white | 9016 | 6x7 | 6x7 | 3/1 | 4 | 72 | 131 | 1080 |
| KSI 6/10-6 | 86401634 | white | 9016 | 6x10 | 6x10 | 5/1 | 4 | 72 | 130 | 1080 |
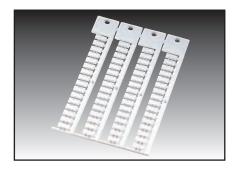
Consult labelling system for suitable base plates

## Type KWI

-40 to 140 °C

PC

V0

Halogen-free terminal block labelling

High-quality, halogen-free snap-in label plates.
Labels available for mounting individually or in strips.
The large printable area at the top allows room for individual project and terminal block reference, dispensing with the need for additional organisational systems.
Label plates designated as "5 - 6 mm-pitch strips" can be adapted to terminal block widths of 5 mm or 6 mm by means of an extension spring joint.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **single labels** | | | | | | | | | | |
| KWI 5/10 | 86401410 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 64 | 20 | 1000 |
| KWI 5/15 | 86401414 | white | 9016 | 5x15 | 5x15 | 8/1 | 4 | 64 | 21 | 1000 |
| KWI 6/10 | 86401420 | white | 9016 | 6x10 | 6x10 | 5/1 | 4 | 64 | 22 | 1000 |
| KWI 6/15 | 86401426 | white | 9016 | 6x15 | 6x15 | 5/1 | 4 | 64 | 23 | 1000 |
| KWI 6/15 | 86401450 | orange | 2011 | 6x15 | 6x15 | 5/1 | 4 | 64 | 230 | 1000 |
| | | | | | | | | | | |
| **5 mm-pitch strips** | | | | | | | | | | |
| KWI 5/8.6-5 | 86401418 | white | 9016 | 5x8.6 | 5x8.6 | 4/1 | 4 | 88 | 24 | 1400 |
| KWI 5/10-5 | 86401412 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 88 | 25 | 1400 |
| KWI 5/15-5 | 86401416 | white | 9016 | 5x15 | 5x15 | 5/1 | 4 | 88 | 26 | 1400 |
| | | | | | | | | | | |
| **5 mm and 6 mm-pitch strips** | | | | | | | | | | |
| KWI 5/10-5...6 | 86401432 | white | 9016 | 5x10 | 4x10 | 5/1 | 4 | 88 | 25U | 1400 |
| | | | | | | | | | | |
| **6 mm-pitch strips** | | | | | | | | | | |
| KWI 6/8.2-6 | 86401430 | white | 9016 | 6x8.2 | 6x8.2 | 4/1 | 4 | 72 | 270 | 1000 |
| KWI 6/10-6 | 86401422 | white | 9016 | 6x10 | 6x10 | 5/1 | 4 | 72 | 27 | 1000 |
| KWI 6/15-6 | 86401428 | white | 9016 | 6x15 | 6x15 | 5/1 | 4 | 72 | 28 | 1000 |
| | | | | | | | | | | |
| **6.8 mm-pitch strips** | | | | | | | | | | |
| KWI 6/10-6.8 | 86401424 | white | 9016 | 6x10 | 6x10 | 5/1 | 4 | 64 | 29 | 1000 |
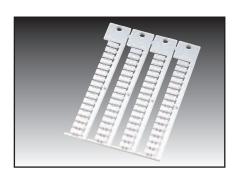
Consult labelling system for suitable base plates

# Type WGO

**-40 to 140 °C**

**PC**

**V0**

**Halogen-free terminal block labelling**

High-quality, halogen-free snap-in label plates.
Labels available for mounting individually or in strips.
The large printable area at the top allows room for individual project and terminal block reference, dispensing with the need for additional organisational systems.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **4 mm-pitch strips** | | | | | | | | | | |
| WGO 4/10-4 F | 86401808 | white | 9016 | 4x10 | 4x10 | 5/1 | 4 | 100 | 162 | 1300 |
| | | | | | | | | | | |
| **5 mm-pitch strips** | | | | | | | | | | |
| WGO 5/10-5 | 86401810 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 88 | 49 | 2000 |
| WGO 5/10-5 F | 86401813 | white | 9016 | 5x10 | 5x10 | 5/1 | 4 | 88 | 139 | 1400 |
| | | | | | | | | | | |
| **5 mm-pitch strips (can be raised to 6 mm pitch)** | | | | | | | | | | |
| WGO 5/5-5 | 86401814 | white | 9016 | 5x5 | 5x5 | 3/1 | 5 | 110 | 142 | 1100 |
| WGO 5/5-5 | 86401838 | orange | 2011 | 5x5 | 5x5 | 3/1 | 5 | 110 | 147 | 1100 |
| WGO 5/5-5 | 86401836 | blue | 5012 | 5x5 | 5x5 | 3/1 | 5 | 110 | 146 | 1100 |
| WGO 5/5-5 | 86401834 | green | 6018 | 5x5 | 5x5 | 3/1 | 5 | 110 | 145 | 1100 |
| WGO 5/5-5 | 86401830 | yellow | 1018 | 5x5 | 5x5 | 3/1 | 5 | 110 | 143 | 1100 |
| WGO 5/5-5 | 86401832 | red | 2012 | 5x5 | 5x5 | 3/1 | 5 | 110 | 144 | 1100 |
| | | | | | | | | | | |
| WGO 5/10-5...6 F | 86401812 | white | 9016 | 4.2x10 | 4.2x9 | 5/1 | 4 | 88 | 141 | 1400 |

Consult labelling system for suitable base plates

## Type TK

-40 to 140 °C

PA
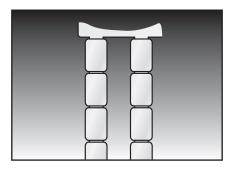
V2

Universal transformer terminal block label plate

Label plate for insertion in transformer terminal blocks.
Suitable for: transformer terminal blocks with nail clip.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|------------|-----------------|---------------------|-----------------------|-----------|---------------|--------------|-----------|
| **7 mm-pitch strips** | | | | | | | | | | |
| TK 4.5-7.0 | 86402412 | white | 9016 | 4.5x7.0 | 4.5x7.0 | 3/1 | 5 | 50 | 90 | 450 |
| | | | | | | | | | | |
| **7.5 mm-pitch strips** | | | | | | | | | | |
| TK 4.5-7.5 | 86402410 | white | 9016 | 4.5x7.5 | 4.5x7.5 | 4/1 | 5 | 50 | 91 | 450 |
| | | | | | | | | | | |
| Consult labelling system for suitable base plates | | | | | | | | | | |

# Component and
# component location labelling

# Component and component location labelling

### ABB
**ABB-**

A9-30-10
A9 Schaltkontakt
A12 Schaltkontakt
A16 Schaltkontakt

List of ABB devices and the Murrplastik labels that fit them
**Page 96**

### AEG
**AEG-**

LS 4K...
LS 7K

List of AEG devices and the Murrplastik labels that fit them
**Page 96**

### Allen Bradley
**Allen Bradley-**

100-C09Z*10
100-F A22
100-F A40
Motorschalter 140

List of Allen Bradley devices and the Murrplastik labels that fit them
**Page 96**

### Beckhoff
**Beckhoff-**

IE 3112-2-00 Feldv
IL 2301-B310
BK 3010
BK 3110

List of Beckhoff devices and the Murrplastik labels that fit them
**Page 97**

### B&R Automation
**Bernecker+Raine**

X20AI4622
X20A04622
X20DI4371
X20DO4322

List of B&R Automation devices and the Murrplastik labels that fit them
**Page 97**

### Bosch/Bosch-Rexroth
**Bosch-**

Bosch/Verteiler

List of Bosch/Bosch-Rexroth devices and the Murrplastik labels that fit them
**Page 97**

### Conta Clip
**Conta Clip-**

CP V40
Optokoppler, AOP
Optokoppler, GEO
Optokoppler, ODW

List of Conta Clip devices and the Murrplastik labels that fit them
**Page 97**

### Escha
**Escha-**

M12 Verteiler
Verteiler Block 8M
Verteiler Block FK/
Verteiler Block MP

List of Escha devices and the Murrplastik labels that fit them
**Page 98**

### Euchner
**Euchner-**

RF03-Klemme
CES-AV 1B-01-B-A

List of Euchner devices and the Murrplastik labels that fit them
**Page 98**

### Festo
**Festo-**

Compact Performa
CPA10 / EV1
CP-E16 Ventilinsel
CP-E16-KL-CL

List of Festo devices and the Murrplastik labels that fit them
**Page 98**

### Finder
**Finder-**

49.52 Relais
93.01
95.95.3
Verteilp./Relais-Ha

List of Finder devices and the Murrplastik labels that fit them
**Page 98**

### GE
**GE-Geräte**

GE/Elfa/AEG EP61-

List of GE devices and the Murrplastik labels that fit them
**Page 99**

90

# Overview of device manufacturers

## Groupe Schneider

| Groupe S |
|---|
| GC-10020 |
| GC-10040 |
| GC-1610 |
| GC-1611 |

List of Groupe Schneider devices and the Murrplastik labels that fit them

**Page 99**

## Harting

| Harting- |
|---|
| Han E AV |
| Harting D+E |
| Steckergehäuse |
| (Schwere Steckver |

List of Harting devices and the Murrplastik labels that fit them

**Page 99**

## IFM

| IFM- |
|---|
| AC 20 xx Classic M |
| AC 24 80/81 Komp |
| AC 24 xx Kompaktr |
| AC 50 xx Modul U |

List of IFM devices and the Murrplastik labels that fit them

**Page 99**

## Indramat

| Indramat- |
|---|
| Interbus SMER und |
| SMA 12 von Rexrot |

List of Indramat devices and the Murrplastik labels that fit them

**Page 100**

## Lütze

| Lütze- |
|---|
| Lütze Relais |
| CS1 und CS2 |

List of Lütze devices and the Murrplastik labels that fit them

**Page 100**

## Lumberg

| Lumberg- |
|---|
| AS Interface ABAS/ |
| AS Interface IBA |
| AS Interface IBI, IB |
| ASB 8 (8fach) |

List of Lumberg devices and the Murrplastik labels that fit them

**Page 100**

## Möller

| Möller- |
|---|
| DILE(E)M |
| DILER |
| DILET |

List of Möller devices and the Murrplastik labels that fit them

**Page 101**

## Murrelektronik

| Murrelektronik- |
|---|
| Art.-Nr.: 276397 |
| Art.-Nr.: 336496 |
| Art.-Nr.: 336522 |
| Cube67 |

List of Murrelektronic devices and the Murrplastik labels that fit them

**Page 101**

## Pepperl+Fuchs

| Pepperl+Fuchs- |
|---|
| ASI VAA-2E-64SN (P |
| ASI-Busmodul |
| Busverteiler |
| C6 Kompaktmodul |

List of Pepperl+Fuchs devices and the Murrplastik labels that fit them

**Page 102**

## Phoenix

| Phoenix- |
|---|
| TMC... |
| |

List of Phoenix devices and the Murrplastik labels that fit them

**Page 102**

## Siemens

| Siemens- |
|---|
| 3RH19 11-1AA.. |
| 3RH19 11-1FA.. |
| 3RH19 11-1GA.. |
| 3RH19 11-1HA |

List of Siemens devices and the Murrplastik labels that fit them

**Page 102**

## Turck

| Turck- |
|---|
| 8MB12-XXX |
| FLDP-IM-8 |
| JTBS-46SC |
| RDP-QM-81 / I16T |

List of Turck devices and the Murrplastik labels that fit them

**Page 103**

## Universal application

| Universale Anwe |
|---|
| KSK-Universal-Sch |
| |

List of universally applicable Murrplastik labe s

**Page 103**

## Wago

| Wago- |
|---|
| Beckhoff Wago 12/ |
| Bez. WSB 209... |
| Bus-Modul Wago 1 |
| D 4/6 |

List of Wago devices and the Murrplastik labels that fit them

**Page 103**

# Component and component location labelling

## SKS labels

Labels for the Siemens Sirius line of devices as well as devices from Lütze

**Page 104**

## KSS labels

Labels for devices from ABB, Conta Clip, Escha, Festo, IFM, Pepperl und Fuchs, Siemens and Turck

**Page 105**

## KSA labels

Labels for devices from AEG and Square D

**Page 106**

## KTE labels

Labels for devices from ABB, IFM, Murrelektronik and Telemechanique

**Page 107**

# Overview of labels

### KAB labels

Labels for devices from ABB, Allen Bradley, and Finder

**Page 108**

### ABB labels

Labels for devices from ABB, Finder, Lumberg, Murrelektronik and Wagossssssg

**Page 109**

### KMO labels

Labels for devices from Möller, Indramat and Murrelektronik

**Page 110**

### KS labels

Labels for devices from Escha, IFM, Lumberg, Murrelektronik, Pepperl + Fuchs and Turck

**Page 111**

### KSD labels

Labels for devices from Festo, Lumberg, Moeller, Murrelektronik and Pepperl + Fuchs

**Page 112**

### KSL labels

Labels for devices from Bosch/Rexroth and Lumberg

**Page 113**

### KES labels

Labels for devices from Escha, Murrelektronik and Turck

**Page 114**

### KPF labels

Labels for Pepperl and Fuchs distributor boxes and control gear.

**Page 115**

### WGO labels

Labels for devices from Beckhoff Euchner and Wago

**Page 116**

### B&R labels

Labels for B&R X20 control gear

**Page 117**

### KSK labels

Universal labels to glue in various sizes and colours for devices from diverse manufacturers

**Page 118**

### KSZ labels

Labels for Harting heavy connectors.

**Page 119**

## Overview of labels

### KSO / KS labels

Universal labels,
installation using installation holder.

**Page 130**

### ELW / ELG / ELPT labels

A4 format sheet labels for laser printing.
Available in various sizes and colours.

**Page 132**

### EDG labels

Sheet labels for matrix printing in A4 Lepore-llo fold format. Available in various colours.

**Page 134**

### ELO labels

Sheet labels for laser printing in A4 format
for Siemens S7 control systems; available in
various sizes and colours. **Page 133**

# Overview of labels

## KM Standard label holder

Label holder for device labelling.
Installed using a cable binder.

**Page 121**

## KM-B label

Label holder for device labelling.
Installed using a cable binder.

**Page 122**

## KM 2 / KM 20 label holder

Self-adhesive label holder for device labelling.

**Page 120**

## KM 6 label holder

Locking label holder for device labelling.

**Page 123**

## BS label holder

Universal label holder for device labelling.

**Page 124**

## SDKL / E labelling system

Labelling set for KDL/E cable entry system.
Holds labels of type KS 15/..

**Page 125**

## BZS label rail (9 mm)

Label rails for component location labelling.
For riveting, screwing, or gluing.

**Page 126**

## BZS label rail (15 mm)

Label rails for component location labelling.
For riveting, screwing, or gluing.

**Page 127**

## BZS labelling system

Label rails for component location labelling.
Latch-in installation.

**Page 128**
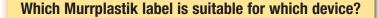
## BZS accessories

Label rails for component location labelling.
Latch-in installation.

**Page 129**

## Selection table for component and component location labelling

### Which Murrplastik label is suitable for which device?

**(A) KAB 5/5,4-5 Seite 999** Letter symbol, the precise label and the catalog page with all product and ordering information.

**Allen Bradley-K**

| |
|---|
| 1492 J3 |
| 1492 J5 |
| 1492 J6 |
| 1492 K2 |
| 1492 K3 |

Device manufacturers and device types are organised alphabetically into tables. Look there for your device type.

a) Label profiles, front and side

An alphabet system is used to make easy to identify which Murrplastik labels are suitable for each individual device.

**/MP-Schildtypen**
Ⓐ Ⓑ Ⓒ
Ⓓ Ⓔ Ⓕ Ⓖ
Ⓗ Ⓘ
Ⓐ Ⓑ Ⓒ
Ⓓ Ⓔ Ⓕ Ⓖ

b) Device profile, maximum count characters per label

**3 Chrs.**
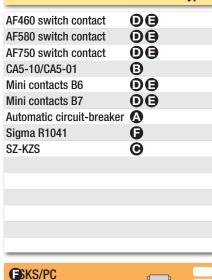
c) Label connection to tree: individually linked, grid, adhesive label on sheet of paper

### ABB devices/MP label types
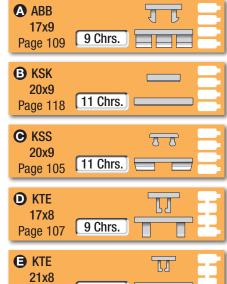
| A9-30-10 | Ⓑ |
|---|---|
| A9 switch contact | Ⓓ Ⓔ |
| A12 switch contact | Ⓓ Ⓔ |
| A16 switch contact | Ⓓ Ⓔ |
| A26 switch contact | Ⓓ Ⓔ |
| A30 switch contact | Ⓓ Ⓔ |
| A40 switch contact | Ⓓ Ⓔ |
| A50 switch contact | Ⓓ Ⓔ |
| A63 switch contact | Ⓓ Ⓔ |
| A75 switch contact | Ⓓ Ⓔ |
| A95 switch contact | Ⓓ Ⓔ |
| A110 switch contact | Ⓓ Ⓔ |
| A145 switch contact | Ⓓ Ⓔ |
| A185 switch contact | Ⓓ Ⓔ |
| A210 switch contact | Ⓓ Ⓔ |
| A260 switch contact | Ⓓ Ⓔ |
| A300 switch contact | Ⓓ Ⓔ |
| AF400 switch contact | Ⓓ Ⓔ |

### ABB devices/MP label types

| AF460 switch contact | Ⓓ Ⓔ |
|---|---|
| AF580 switch contact | Ⓓ Ⓔ |
| AF750 switch contact | Ⓓ Ⓔ |
| CA5-10/CA5-01 | Ⓑ |
| Mini contacts B6 | Ⓓ Ⓔ |
| Mini contacts B7 | Ⓓ Ⓔ |
| Automatic circuit-breaker | Ⓐ |
| Sigma R1041 | Ⓕ |
| SZ-KZS | Ⓒ |

### Label type, devices and label profiles

**Ⓐ ABB 17x9 Page 109** — 9 Chrs.

**Ⓑ KSK 20x9 Page 118** — 11 Chrs.

**Ⓒ KSS 20x9 Page 105** — 11 Chrs.

**Ⓓ KTE 17x8 Page 107** — 9 Chrs.

**Ⓔ KTE 21x8 Page 107** — 12 Chrs.

**Ⓕ KS/PC 11x4 Page 104** — 6 Chrs.

### AEG devices/MP label types

| LS 4K... | Ⓐ |
|---|---|
| LS 7K | Ⓐ |

### Label type, devices and label profiles

**Ⓐ KSA 19x8 Page 106** — 10 Chrs.

### Allen Bradley devices/MP label types

| 100-C09Z*10 | Ⓐ |
|---|---|
| 100-F A22 | Ⓐ |
| 100-F A40 | Ⓐ |
| Starter 140M x | Ⓐ |

### Label type, devices and label profiles

**Ⓐ KAB 17x10 Page 108** — 9 Chrs.

# Selection table for component and component location labelling

## Beckhoff devices/MP label types

| Device | Label types |
|---|---|
| IE 3112-2-00 field junction box | Ⓐ |
| IL 2301-B310 | Ⓐ |
| BK 3010 | ⒷⒸ |
| BK 3110 | ⒷⒸ |
| BC 2000 | ⒷⒸ |
| BC 3100 | ⒷⒸ |
| BC 4000 | ⒷⒸ |

## Beckhoff devices/MP label types

**Ⓐ KS** 5/10 Page 111 — 6 Chrs.

## Label type, clamp and label profiles

**Ⓑ WGO** 5/5-5 Page 87 — 3 Chrs.

**Ⓒ WGO** 12/7 Page 87 — 6 Chrs.

## Bernecker+Rainer devices/MP label types

| Device | Label types |
|---|---|
| X20AI4622 | Ⓐ |
| X20AO4622 | Ⓐ |
| X20DI4371 | Ⓐ |

## Bernecker+Rainer devices/MP label types

| Device | Label types |
|---|---|
| X20DO4322 | Ⓐ |
| X20DC4395 | Ⓐ |
| X20DC1398 | Ⓐ |

## Label type, devices and label profiles

**Ⓐ B+R** 11x3 Page 117 — 5 Chrs.

## Bosch+Rexroth devices/MP label types

| Device | Label types |
|---|---|
| Bosch/junction box | Ⓐ |
| DDL digital input module | Ⓑ |
| RF-FLS PB 12MI DIO 4/4 M12-2A | Ⓒ |
| RF-FLS PB M12 DI 8M12 | Ⓒ |
| RF-FLS PB M12 DIO 8/8 M12 | Ⓒ |
| RF-FLS PB M12 DO M12-2A | Ⓒ |

## Bosch+Rexroth devices/MP label types

**Ⓒ KPX** 12/5-12 ZS Page 84 — 3 Chrs.

## Label type, devices and label profiles

**Ⓐ KSS** 10x8 Page 105 — 5 Chrs.

**Ⓑ KSL** 20x9 Page 113 — 11 Chrs.

## Conta Clip devices/MP label types

| Device | Label types |
|---|---|
| CP V40 | ⒶⒾ |
| Optocoupler, AOP | ⒶⒾ |
| Optocoupler, GEO | ⒶⒺⒼ |
| Optocoupler, ODW | ⒶⓀ |
| Optocoupler, SSO | ⒶⒽⒿ |
| PGSV | ⒷⒸⓁ |
| PRSU | Ⓕ |
| PSP | ⒹⓁ |

## Label type, devices and label profiles

**Ⓐ KMR** 5/7.5-5 Page 82 — 4 Chrs.

**Ⓑ KMR** 6/10 Page 82 — 5 Chrs.

**Ⓒ KMR** 6/15 Page 82 — 8 Chrs.

**Ⓓ KPX** 4/10 Page 83 — 5 Chrs.

**Ⓔ KPX** 5/5-5 ZS Page 84 — 3 Chrs.

**Ⓕ KPX** 5/10-5 Page 83 — 5 Chrs.

## Label type, devices and label profiles

**Ⓖ KPX** 5/10-5 ZS Page 84 — 5 Chrs.

**Ⓗ KPX** 6/5-6 ZS Page 84 — 3 Chrs.

**Ⓘ KPX** 6/10 Page 83 — 5 Chrs.

**Ⓙ KPX** 6/10-6 ZS Page 84 — 5 Chrs.

**Ⓚ KPX** 12/5-12 ZS Page 84 — 3 Chrs.

**Ⓛ KSS** 20x9 Page 105 — 11 Chrs.

## Selection table for component and component location labelling

### Escha devices/MP label types

| | |
|---|---|
| M12 distributor | Ⓒ |
| Distributor block 8MB | Ⓒ |
| Distributor block FK/FKS | Ⓐ Ⓒ |
| Distributor block MB | Ⓑ |

### Label type, devices and label profiles

Ⓐ KES
20x8
Page 114 — 11 Chrs.

Ⓑ KS
5/10
Page 111 — 6 Chrs.

### Label type, devices and label profiles

Ⓒ KSS
20x9
Page 105 — 11 Chrs.

### Euchner devices/MP label types

| | |
|---|---|
| RF03 terminal block | Ⓐ |
| CES-AV 1B-01-B-ASI | Ⓑ |

### Label type, devices and label profiles

Ⓐ WGO
5/10-5F
Page 87 — 5 Chrs.

### Label type, devices and label profiles

Ⓑ KPX
6/10-6 ZS
Page 84 — 5 Chrs.

### Festo devices/MP label types

| | |
|---|---|
| Compact Performance | Ⓒ |
| CPA10 / EV1 | Ⓒ |
| CP-E16 valve terminal | Ⓒ |
| CP-E16-KL-CL | Ⓒ |
| CPV18-V1 | Ⓕ |
| Electronic CP-E16-M | Ⓒ |
| IBS 6x10 | Ⓒ |
| IBS 9/17 | Ⓐ |
| IBS 9/20 | Ⓕ Ⓗ |
| IBS 10/17 | Ⓑ |
| MHA1xxx | Ⓓ |
| MH-BZ-80X | Ⓓ |
| MPV -E/A08-M8 | Ⓒ |
| MPV -E/A08-M12 | Ⓒ |
| MPV -E/A12-M8 | Ⓒ |
| Pneumatic CPV | Ⓒ |
| SBS 8x10 | Ⓔ |

### Label type, devices and label profiles

Ⓕ KSF
20x9
Page 112 — 11 Chrs.

Ⓗ KSS
20x9
Page 105 — 11 Chrs.

### Label type, devices and label profiles

Ⓐ ABB
17x9
Page 109 — 9 Chrs.

Ⓑ KAB
17x10
Page 108 — 9 Chrs.

Ⓒ KPX
6/10
Page 83 — 5 Chrs.

Ⓓ KSF
4.5x9
Page 112 — 5 Chrs.

Ⓔ KSF
10x8
Page 112 — 5 Chrs.

### Finder devices/MP label types

| | |
|---|---|
| 49.52 Relay | Ⓒ Ⓓ |
| 93.01 | Ⓑ |
| 95.95.3 | Ⓒ Ⓓ |
| Variclip (relay retaining clip ) | Ⓐ |
| Variclip 020.24 | Ⓐ |

### Label type, devices and label profiles

Ⓐ ABB
17x9
Page 109 — 9 Chrs.

Ⓑ KPX
6/10
Page 83 — 5 Chrs.

### Label type, devices and label profiles

Ⓒ KAB
6/12
Page 79 — 6 Chrs.

Ⓓ KAB
6/12-6
Page 79 — 6 Chrs.

# Selection table for component and component location labelling

## GE devices/MP label types

| GE / Elfa / AEG EP61 - B16 | Ⓐ |
| --- | --- |

### Label type, devices and label profiles

**Ⓐ KSK** 15x9 Page 118 — 7 Chrs.

## Groupe Schneider devices/MP label types

| | |
| --- | --- |
| GC-10020 | Ⓑ |
| GC-10040 | Ⓑ |
| GC-1610 | Ⓐ |
| GC-1611 | Ⓐ |
| GC-1620 | Ⓐ |
| GC-1622 | Ⓐ |
| GC-1640 | Ⓐ |
| GC-2502 | Ⓐ |
| GC-2504 | Ⓐ |
| GC-2510 | Ⓐ |
| GC-2511 | Ⓐ |
| GC-2520 | Ⓐ |
| GC-2522 | Ⓐ |
| GC-2530 | Ⓐ |
| GC-2540 | Ⓐ |
| GC-4002 | Ⓑ |
| GC-4004 | Ⓑ |
| GC-4011 | Ⓑ |
| GC-4020 | Ⓑ |
| GC-4022 | Ⓑ |

## Groupe Schneider devices/MP label types

| | |
| --- | --- |
| GC-4030 | Ⓑ |
| GC-4040 | Ⓑ |
| GC-6302 | Ⓑ |
| GC-6304 | Ⓑ |
| GC-6311 | Ⓑ |
| GC-6320 | Ⓑ |
| GC-6322 | Ⓑ |
| GC-6330 | Ⓑ |
| GC-6340 | Ⓑ |
| GF-1610 | Ⓑ |
| GF-1611 | Ⓑ |
| GF-1620 | Ⓑ |
| GY-1611 | Ⓐ |
| GY-1620 | Ⓐ |
| GY-1640 | Ⓑ |
| GY-2511 | Ⓐ |
| GY-2520 | Ⓐ |
| GY-2530 | Ⓑ |
| GY-2540 | Ⓑ |
| GY-4020 | Ⓑ |

### Label type, devices and label profiles

**Ⓐ KTE** 17x8 Page 107 — 9 Chrs.

**Ⓑ KTE** 21x8 Page 107 — 12 Chrs.

| | |
| --- | --- |
| GY-4030 | Ⓑ |
| GY-4040 | Ⓑ |
| GY-6320 | Ⓑ |
| GY-6330 | Ⓑ |
| GY-6340 | Ⓑ |
| LD1-LB030 | Ⓑ |
| LD1-LC030 | Ⓑ |
| LD4-LC030 | Ⓑ |
| LD4-LC130 | Ⓑ |
| LD5-LC030 | Ⓑ |
| LD5-LC130 | Ⓑ |
| TeSys Model U | Ⓐ |

## Harting devices/MP label types

| | |
| --- | --- |
| Han E AV | Ⓑ |
| Harting D+E | Ⓑ |
| Heavy-duty connector | Ⓐ |

### Label type, devices and label profiles

**Ⓐ KSZ** 20x7 Page 119 — 10 Chrs.

### Label type, devices and label profiles

**Ⓑ KWI** 6/10-6.8 Page 86 — 5 Chrs.

## IFM devices/MP label types

| | |
| --- | --- |
| AC 20 xx Classic Module / Universal M | Ⓓ |
| AC 24 80/81 Compact Line | Ⓓ |
| AC 24 xx Compact Module | Ⓔ |
| AC 50 xx Module lower parts | Ⓓ |
| AC 225 Smart Line | Ⓒ Ⓕ Ⓖ |
| AC 5210 ASI Module | Ⓗ |
| AV 52xx Classic Line | Ⓗ |
| Adhesive labels for housing w/o holder | Ⓑ |
| Connecting cables M12/M8 | Ⓐ |

### Label type, devices and label profiles

**Ⓐ KS** 4/23 Page 49 — 12 Chrs.

**Ⓑ KSK** 15x9 Page 118 — 7 Chrs.

**Ⓒ KSK** 20x9 Page 118 — 11 Chrs.

**Ⓓ KSS** 10x8 Page 105 — 5 Chrs.

### Label type, devices and label profiles

**Ⓔ KSS** 20x9 Page 105 — 11 Chrs.

**Ⓕ KTE** 17x8 Page 107 — 9 Chrs.

**Ⓖ KTE** 21x8 Page 107 — 12 Chrs.

**Ⓗ KMO** 17.5x8 Page 110 — 9 Chrs.

## Selection table for component and component location labelling

| Indramat devices/MP label types | | Label type, devices and label profiles |
|---|---|---|
| Interbus SMER and SMA 12 made by Rexroth | **A** | **A** KSF 20x9 Page 112 — 11 Chrs. |

| Lütze devices/MP label types | | Label type, devices and label profiles | Label type, devices and label profiles |
|---|---|---|---|
| Relay by Lütze | **B** | **A** BS1 25x8 Page 124 — 10 Chrs. | **B** SKS/PC 11x4 Page 104 — 6 Chrs. |
| CS1 | **A** | | |
| CS2 | **A** | | |
| WAA 6-0500 | **B** | | |
| WAA 6-1500 | **B** | | |

| Lumberg devices/MP label types | | Label type, devices and label profiles | Label type, devices and label profiles |
|---|---|---|---|
| AS Interface ABAS/UTAS | **G** | **A** DM 16x6 Page 136 — 9 Chrs. | **F** KSL 20x9 Page 113 — 11 Chrs. |
| AS Interface IBA | **H** | | |
| AS Interface IBI, IBP | **H** | | |
| ASB 8 (8x) | **D E F** | **B** KM 6/15 Page 123 | **G** KSS 10x8 Page 105 — 5 Chrs. |
| ASB 8 5-4 | **E** | | |
| ASB 8/LED 5-4 | **E** | | |
| ASB 2-VC-1A | **H** | **C** KS 5/10 Page 111 — 6 Chrs. | **H** KSS 20x9 Page 105 — 11 Chrs. |
| ASBM 12/LED 3 | **C** | | |
| ASBSM 4/LED 3 | **C** | | |
| ASBSV | **E F** | **D** KSF 20x9 Page 112 — 11 Chrs. | |
| Lumberg distributor | **A** | | |
| Multi-Connector SBS4/LED-3 | **G** | | |
| Valve plug (holder KM 6/15) | **B** | **E** KSL 12x9 Page 113 — 6 Chrs. | |
| Distributor E2C | **G** | | |
| Distributor SB8 | **G** | | |
| ASI module | **E F** | | |
| Profibus 0970-PSL-651 | **C** | | |

# Selection table for component and component location labelling

## Möller devices/MP label types

| | |
|---|---|
| DILE(E)M | Ⓐ |
| DILER | Ⓑ |
| DILET | Ⓑ |

## Label type, devices and label profiles

Ⓐ KMO
17.5x8
Page 110 — 9 Chrs.

## Label type, devices and label profiles

Ⓑ KMO Adapter
22.5x8
Page 110
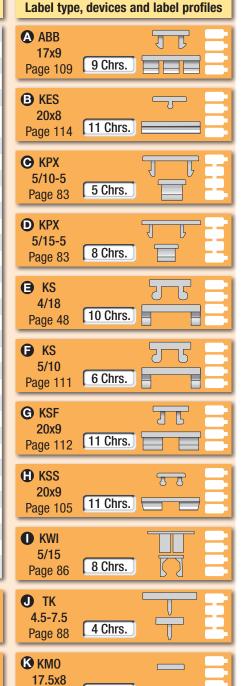
## Murrelektronik devices/MP label types

| | |
|---|---|
| AMMS/AMMDS | Ⓗ |
| AMZS/AMZSW | Ⓗ |
| Item no.: 276397 | Ⓗ |
| Item no.: 336496 | Ⓔ Ⓖ |
| Item no.: 336522 | Ⓔ Ⓖ |
| AS/SO1/DIL/RC-BUG2 | Ⓗ |
| ASI IO SL DIO 8/4/4 | Ⓒ |
| Cube67 | Ⓑ |
| Cube67 BN-P | Ⓗ |
| Initiator bracket | Ⓚ |
| KM 5 | Ⓗ |
| Logical distributor 8-way M12 Art. Nr.: 276247 | Ⓗ |
| M 8 distributor | Ⓒ |
| M 8 distributor with solid cable/ single-row | Ⓙ |
| M 12 distributor | Ⓗ |
| M 12 Y-cable | Ⓕ |
| MASI | Ⓑ |
| MAW/MDW | Ⓗ |
| MBM Busmodule IP 20 | Ⓗ |
| MBV series | Ⓗ |
| MERINO | Ⓐ |
| Merio M12 8-way distributor 27106 | Ⓐ |
| ME plug Art.Nr.: 3129720 | Ⓖ |
| MICO 4.6 | Ⓑ |
| Mini contacts B6 | Ⓛ Ⓜ |
| Miro series coupling relay | Ⓘ |
| MIS system wiring | Ⓗ |
| MKS/MKS xxx | Ⓗ |
| MPOT | Ⓗ |
| MSUD valve mounting tech. | Ⓗ |
| MSUD valve connector combo | Ⓒ |
| MSVD / MSDD | Ⓗ |
| MSVS | Ⓗ |
| MU...W | Ⓘ |
| MUFW/MF..W/MIB | Ⓗ |
| MVK8 ASI bus modules | Ⓒ |
| MVK12 ASI bus modules | Ⓐ |
| MVK-I bus module item no. ME 55330 | Ⓗ |
| MVK MP DI 08 / DI 8 Profibus | Ⓑ |
| MVM8 Art.Nr.: 276658 | Ⓐ |

## Label type, devices and label profiles

| | |
|---|---|
| MVP 12 / 4-way distributor 27530 | Ⓑ |
| MVP 12 / 4-way distributor 27114 | Ⓐ |
| MVP 12 / 6-way distributor 27115 | Ⓐ |
| MVP 12 / 8-way distributor 27116 | Ⓐ |
| MVP 12 / 8-way distributor 27535 | Ⓑ |
| MVP 12 ASI module distributor 27773 - 27778 | Ⓐ |
| MVPS8 Sensor Actuator Box | Ⓒ |
| NEF network interference filter | Ⓗ |
| Optocoupler MR 6,2 | Ⓘ |
| RMM/RMME | Ⓗ |
| UFL/UG-SB/UGS/SV/LUGS/PKB | Ⓗ |
| Valve plug profile A, B, BI, C, CI | Ⓗ |
| Distributor MVB 8V | Ⓗ |

Ⓛ KTE
17x8
Page 107 — 9 Chrs.

Ⓜ KTE
21x8
Page 107 — 12 Chrs.

## Label type, devices and label profiles

Ⓐ ABB
17x9
Page 109 — 9 Chrs.

Ⓑ KES
20x8
Page 114 — 11 Chrs.

Ⓒ KPX
5/10-5
Page 83 — 5 Chrs.

Ⓓ KPX
5/15-5
Page 83 — 8 Chrs.

Ⓔ KS
4/18
Page 48 — 10 Chrs.

Ⓕ KS
5/10
Page 111 — 6 Chrs.

Ⓖ KSF
20x9
Page 112 — 11 Chrs.

Ⓗ KSS
20x9
Page 105 — 11 Chrs.

Ⓘ KWI
5/15
Page 86 — 8 Chrs.

Ⓙ TK
4.5-7.5
Page 88 — 4 Chrs.

Ⓚ KMO
17.5x8
Page 110 — 9 Chrs.

## Selection table for component and component location labelling

### Pepperl+Fuchs devices/MP label types

| Device | Label |
|---|---|
| ASI VAA-2E-64SN (pneumatic module VAA) | **F** |
| ASI bus module | **F** |
| Bus distributor | **A** |
| G6 compact modules (10 x 5 label) | **B** |
| G6 compact modules (10 x 8 label) | **F** |
| IPG-64-B7 | **F** |
| K-series (module label holder) | **E** |
| Power repeater | **D** |
| VAS 2A-K 12U | **C** |
| VVA-4E-62-ZE | **C** |

### Label type, devices and label profiles

**A** KPF
18,5x8
Page 115  — 10 Chrs.

**B** KS
5/10
Page 111 — 6 Chrs.

**C** KSF
20x9
Page 112 — 11 Chrs.

### Label type, devices and label profiles

**D** KSK
20x9
Page 118 — 11 Chrs.

**E** KS0
20x9
Page 130 — 11 Chrs.

**F** KSS
10x8
Page 105 — 5 Chrs.

### Phoenix devices/MP label types

| Device | Label |
|---|---|
| ASI IO SL DI 4/4 | **C** |
| ASI IO SL DIO 4/2/2 | **C** |
| ASI IO SL DO 4/4 | **C** |
| FLM DIO 4/4 M12-2A | **D** |
| FLS CO M12 DI 8 M12 | **D** |
| FLS CO M12 DIO 4/4 M12-2A | **D** |
| FLS CO M12 DO M12-2A | **D** |
| FLS DN M12 DIO 4/4 M12-2A | **D** |
| FLS DN M12 DO 8 M12-2A | **D** |
| FLS IB M12 DI 8 M12 | **D** |
| FLS IB M12 DO 4/4 M12-2A | **D** |
| FLS IB M12 DO 8 M12-2A | **D** |
| FLS PB M12 DI 8 M12 | **D** |
| FLS PB M12 DIO 4/4 M12-2A | **D** |

### Phoenix devices/MP label types

| Device | Label |
|---|---|
| FLS PB M12 DO 8 M12-2A | **D** |
| TMC... | **A** **B** |
| Interbus Mir Box SAB 24 | **E** |

**E** KSF
20x9
Page 112 — 11 Chrs.

### Label type, devices and label profiles

**A** KPX
6/10
Page 83 — 5 Chrs.

**B** KPX
6/15
Page 83 — 8 Chrs.

**C** KPX
5/10-5
Page 83 — 5 Chrs.

**D** KPX
12/5-12 ZS
Page 84 — 3 Chrs.

### Siemens devices/MP label types

| Device | Label |
|---|---|
| 3RH19 11-1AA.. | **D** |
| 3RH19 11-1FA.. | **D** |
| 3RH19 11-1GA.. | **D** |
| 3RH19 11-1HA.. | **D** |
| 3RH19 11-1LA.. | **C** |
| 3RH19 11-1NF.. | **C** |
| 3RH19 11-2FA.. | **D** |
| 3RH19 11-2GA.. | **C** **D** |
| 3RH19 11-2HA.. | **D** |
| 3RH19 11-2NF.. | **C** |
| 3RH19 21-1C.. | **C** |
| 3RH19 21-1F.. | **D** |
| 3RH19 21-1FE22 | **C** **D** |
| 3RH19 21-1HA.. | **C** **D** |
| 3RH19 21-1LA.. | **D** |
| 3RH19 21-1MA.. | **D** |
| 3RH19 21-2C.. | **C** |
| 3RH19 21-2F.. | **D** |

### Siemens devices/MP label types

| Device | Label |
|---|---|
| 3RH19 21-2FE22 | **C** **D** |
| 3RH19 21-2HA.. | **C** **D** |
| 3RT19 16-2.. | **D** |
| 3RT19 16-2B.01 | **D** |
| 3RT19 16-2C.. | **D** |
| 3RT19 16-2D.. | **D** |
| 3RT19 26-2.. | **D** |
| 3RT19 26-3A0.31 | **D** |
| 3RV | **D** |
| 3RV10 | **D** |
| 6ES71411BF01-0XB0 | **A** |
| 6ES71421BD40-0XA0 | **A** |
| End bracket 8WA1 808 | **B** |
| Motor protecting switch | **D** |
| Control elements 3SB14.. | **A** |
| BUTTON 3SB 3 | **A** |
| Signum button series; contact block; bus module ET 200X | **A** |

### Label type, devices and label profiles

**A** KSS
10x8
Page 105 — 5 Chrs.

**B** KSS
20x9
Page 105 — 11 Chrs.

**C** SKS/PC
10x7
Page 104 — 5 Chrs.

**D** SKS/PC
20x7
Page 104 — 11 Chrs.

# Selection table for component and component location labelling

## Turck devices/MP label types

| Device | Label type |
|---|---|
| 8MB12-XXX | C |
| FLDP-IM-8 | C |
| JTBS-46SC | A |
| PDP-OM 81 / I16T | C |
| SPS distributor SDPB-0404D-006 | B |
| SPS distributor SDPL-0404D-1003 | B |

## Label type, devices and label profiles

**A KES** 20x8 Page 114 — 11 Chrs.

**B KS** 5/10 Page 111 — 6 Chrs.

## Label type, devices and label profiles

**C KSS** 20x9 Page 105 — 11 Chrs.

## Universal application/MP labels

Labels/sheet labels for universal application through gluing/screwing/riveting

A B C D
E F G H I
J K L M N

**A ELW/ELG/ELPT** A4 sheet/laser printing Page 132

**B ELO** A4 sheet/laser printing Page 133

**C EDG** A4 sheet/matrix printing Page 134

**D DM/DMG/ALU/ALM** engraving material Page 135

## Label type, devices and label profiles

**E KSK** 11x9 Page 118 — 5 Chrs.

**F KSK** 15x9 Page 118 — 7 Chrs.

**G KSK** 20x9 Page 118 — 11 Chrs.

**H KSK** 35x9 Page 118 — 19 Chrs.

**I KSK** 70x9 Page 118 — 38 Chrs.

## Label type, devices and label profiles

**J KSO** 11x9 Page 130 — 5 Chrs.

**K KSO** 15x9 Page 130 — 7 Chrs.

**L KSO** 20x9 Page 130 — 11 Chrs.

**M KSO** 35x9 Page 130 — 19 Chrs.

**N KSO** 70x9 Page 130 — 38 Chrs.

## Wago devices/MP label types

| Device | Label type |
|---|---|
| 757-483 M8 Sensor/Actuator Box 8-way | B |
| Beckhoff Wago 12/7 | B |
| Des. WSB 209... | B |
| Bus module by WAGO 12/7 | B |
| CA5-10/CA5-01 | D |
| D 4/6 | B |
| M 4/6 | C |
| M 16/12 | C |
| Mini WSB | A |
| Automatic circuit-breaker | E |

## Label type, devices and label profiles

**A WGO** 5/5-5 Page 87 — 3 Chrs.

**B WGO** 5/10-5 Page 87 — 5 Chrs.

## Label type, devices and label profiles

**C WGO** 5/10-5F Page 87 — 5 Chrs.

**D KSK** 20x9 Page 118 — 11 Chrs.

**E ABB** 17x9 Page 109 — 9 Chrs.

## Type SKS

-40 to 140 °C

PC

V0

Halogen-free component labelling

High-quality, halogen-free label plates to snap into the Siemens-Sirius devices.
The large printable area at the top allows room for individual project and component refer-
ence, dispensing with the need to organise additional systems.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| SKS/PC 10x7 Sirius | 86401652 | white | 9016 | 10x7 | 10x7 | 5/2 | 4 | 48 | 96 | 816 |
| SKS/PC 10x7 Sirius | 86401662 | Pastel turquoise | 6034 | 10x7 | 10x7 | 5/2 | 4 | 48 | 096 | 816 |
| | | | | | | | | | | |
| SKS/PC 11x4 Sirius | 86401658 | white | 9016 | 11x4 | 11x4 | 6/1 | 4 | 80 | 134 | 1200 |
| SKS/PC 11x4 Sirius | 86401660 | Pastel turquoise | 6034 | 11x4 | 11x4 | 6/1 | 4 | 80 | 135 | 1200 |
| | | | | | | | | | | |
| SKS/PC 20x7 Sirius | 86401656 | white | 9016 | 20x7 | 20x7 | 11/2 | 4 | 20 | 95 | 340 |
| SKS/PC 20x7 Sirius | 86401664 | Pastel turquoise | 6034 | 20x7 | 20x7 | 11/2 | 4 | 20 | 095 | 340 |

Consult labelling system for suitable base plates

# Type KSS

**-40 to 140 °C**

**PC**

**V0**

**Halogen-free component labelling**
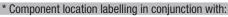
High-quality, halogen-free label plates to snap into devices.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.
Adapters render the label holders usable for component location labelling.
Multiframe compatible with other manufacturers.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|------------|-----------------|---------------------|-----------------------|-----------|---------------|--------------|-----------|
| KSS 10x8 for ASI * | 86421006 | white | 9016 | 10x8 | 10x8 | 5/2 | 4 | 40 | 77 | 800 |
| KSS 10x8 for ASI * | 86421008 | Pastel turquoise | 6034 | 10x8 | 10x8 | 5/2 | 4 | 40 | 78 | 800 |
| | | | | | | | | | | |
| KSS 20x9 ** | 86421010 | white | 9016 | 20x9 | 20x9 | 11/2 | 4 | 20 | 67 | 380 |
| KSS 20x9 ** | 86421011 | yellow | 1018 | 20x9 | 20x9 | 11/2 | 4 | 20 | 67G | 380 |
| KSS 20x9 ** | 86421009 | Pastel turquoise | 6034 | 20x9 | 20x9 | 11/2 | 4 | 20 | 67P | 380 |

* Component location labelling in conjunction with:
BZS label rail

** Component location labelling in conjunction with:
BS 9, BS 10 label holders or BZS label rail

Consult labelling system for suitable base plates

## Type KSA

-40 to 140 °C

PC

V0

Halogen-free component labelling

High-quality, halogen-free label plates to snap into devices.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.
Adapters render the label holders usable for component location labelling.





| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| KSA 19x8 * | 86421012 | white | 9016 | 19x8 | 19x8 | 10 /2 | 4 | 20 | 70 | 380 |

* Component location labelling in conjunction with:
BZS 9 label rail

Consult labelling system for suitable base plates

## Type KTE

-40 to 140 °C

PC

V0

Halogen-free component labelling

High-quality, halogen-free label plates to snap into devices.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.
Adapters render the label holders usable for component location labelling.





| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| KTE 17x8 * | 86421018 | white | 9016 | 17x8 | 17x8 | 9/2 | 4 | 20 | 73 | 340 |
| KTE 21x8 * | 86421014 | white | 9016 | 21x8 | 21x8 | 12/2 | 4 | 20 | 72 | 340 |

* Component location labelling in conjunction with:
BZS 9 label rail

Consult labelling system for suitable base plates

## Type KAB

-40 to 140 °C

PC

V0

Halogen-free component labelling

High-quality, halogen-free label plates to snap into devices.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.





| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|------------|-----------------|---------------------|----------------------|-----------|---------------|--------------|-----------|
| KAB 17x10 | 86421016 | white | 9016 | 17x10 | 17x10 | 9/2 | 5 | 30 | 52 | 750 |

Consult labelling system for suitable base plates

# Type ABB



-40 to 140 °C

PC

V0

Halogen-free component labelling

High-quality, halogen-free label plates to snap into devices.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.
Adapters render the label holders usable for component location labelling.





| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| ABB 17x9 | 86421020 | white | 9016 | 17x9 | 17x9 | 9/2 | 4 | 24 | 68 | 384 |
| ABB 17x9 | 86421021 | Pastel turquoise | 6034 | 17x9 | 17x9 | 9/2 | 4 | 24 | 68P | 384 |

* Component location labelling in conjunction with:

BZS label rail

Consult labelling system for suitable base plates

## Type KMO

-40 to 140 °C

PC

V0

Halogen-free component labelling

High-quality, halogen-free label plates to snap into devices.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|-----------|-----------------|---------------------|----------------------|-----------|---------------|--------------|-----------|
| KMO 17.5x8 * | 86421070 | white | 9016 | 17.5x8 | 17.5x8 | 9/2 | 4 | 24 | 190 | 720 |

Adapter for DILER and DILET series
for use with components without auxiliary contacts

| KMO adapter | 86421074 | white | - | - | - | - | - | - | - | 380 |

KSS 20x9 label plate required (please order separately)

\* Component location labelling in conjunction with: BZS 9 label rail

Consult labelling system for suitable base plates
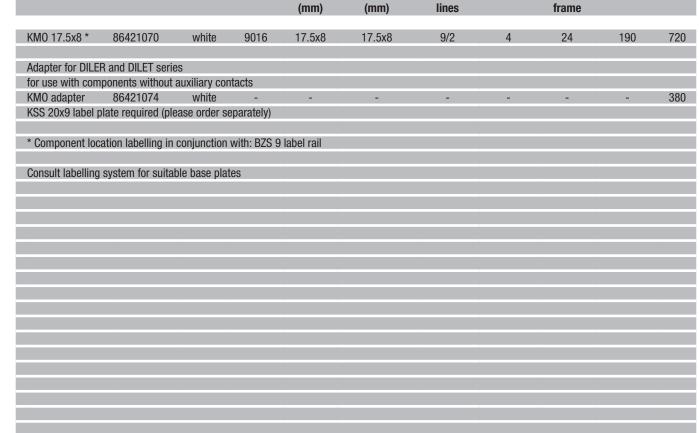
# Type KS

**-40 to 140 °C**

**PC**

**V0**

**Halogen-free component labelling**

High-quality, halogen-free label plates to snap into devices.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.





| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|------------|-----------------|---------------------|-----------------------|-----------|---------------|--------------|-----------|
| KS 5/10 | 86402210 | white | 9016 | 10x5 | 10x5 | 6/1 | 4 | 40 | 88 | 1000 |

Consult labelling system for suitable base plates

## Type KSF

-40 to 140 °C

PC

V0

Halogen-free component labelling

High-quality, halogen-free label plates to snap into devices.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.
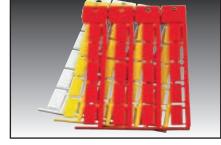Adapters render the label holders usable for component location labelling.





| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|------------|-----------------|---------------------|-----------------------|-----------|---------------|--------------|-----------|
| KSF 4.5x9 | 86421046 | white | 9016 | 4.5x9 | 4.5x9 | 5/1 | 4 | 80 | 176 | 1040 |
| KSF 10x8 * | 86421050 | white | 9016 | 10x8 | 10x8 | 5/2 | 4 | 44 | 175 | 1012 |
| KSF 20x9 * | 86421042 | white | 9016 | 20x9 | 20x9 | 11/2 | 4 | 20 | 174 | 380 |

* Component location labelling in conjunction with:
BZS 9 label rail

Consult labelling system for suitable base plates

# Type KSL

-40 to 140 °C

PC

V0

Halogen-free component labelling

High-quality, halogen-free label plates to snap into devices.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.





| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|------------|-----------------|---------------------|-----------------------|-----------|---------------|--------------|-----------|
| KSL 12x9 | 86421060 | white | 9016 | 12x9 | 12x9 | 6/2 | 4 | 20 | 170 | 380 |
| KSL 20x9 | 86421062 | white | 9016 | 20x9 | 20x9 | 11/2 | 4 | 20 | 171 | 380 |

Consult labelling system for suitable base plates

## Type KES

-40 to 140 °C

PC

V0

Halogen-free component labelling

High-quality, halogen-free label plates to snap into devices.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.
Adapters render the label holders usable for component location labelling.





| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|------------|-----------------|---------------------|-----------------------|-----------|---------------|--------------|-----------|
| KES 20x8 * | 86421052 | white | 9016 | 20x8 | 20x8 | 11/2 | 4 | 20 | 99 | 380 |

\* Component location labelling in conjunction with:
BZS 9 label rail

Consult labelling system for suitable base plates
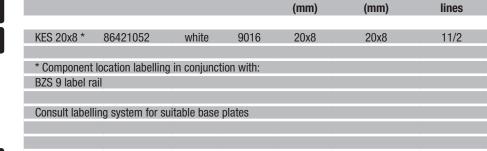
# Type KPF

**-40 to 140 °C**

**PC**

**V0**

**Halogen-free component labelling**

High-quality, halogen-free label plates to snap into devices.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.
Adapters render the label holders usable for component location labelling.





| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|------------|-----------------|---------------------|----------------------|-----------|---------------|--------------|-----------|
| KPF 18.5x8 | 86421054 | white | 9016 | 18.5x8 | 18.5x8 | 10/2 | 4 | 20 | 250 | 480 |

\* Component location labelling in conjunction with:
BZS 9 label rail

Consult labelling system for suitable base plates

## Type WGO

-40 to 140 °C

PC

V0

Halogen-free component labelling

High-quality, halogen-free label plates to snap into devices.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.
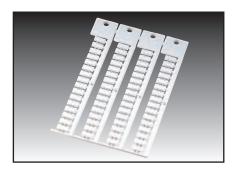




| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|-----------|-----------------|---------------------|----------------------|-----------|---------------|--------------|-----------|
| **Component labelling** | | | | | | | | | | |
| WGO 12/7 | 86401822 | white | 9016 | 12x7 | 12x7 | 6/2 | 4 | 36 | 140 | 750 |
| | | | | | | | | | | |
| **Connecting labelling** | | | | | | | | | | |
| WGO 5/5-5 | 86401814 | white | 9016 | 5x5 | 5x5 | 3/1 | 5 | 110 | 142 | 1100 |
| WGO 5/5-5 | 86401838 | orange | 2011 | 5x5 | 5x5 | 3/1 | 5 | 110 | 147 | 1100 |
| WGO 5/5-5 | 86401836 | blue | 5012 | 5x5 | 5x5 | 3/1 | 5 | 110 | 146 | 1100 |
| WGO 5/5-5 | 86401834 | green | 6018 | 5x5 | 5x5 | 3/1 | 5 | 110 | 145 | 1100 |
| WGO 5/5-5 | 86401830 | yellow | 1018 | 5x5 | 5x5 | 3/1 | 5 | 110 | 143 | 1100 |
| WGO 5/5-5 | 86401832 | red | 2012 | 5x5 | 5x5 | 3/1 | 5 | 110 | 144 | 1100 |

Consult labelling system for suitable base plates

# Type B+R

**-40 to 140 °C**

**PC**

**V0**
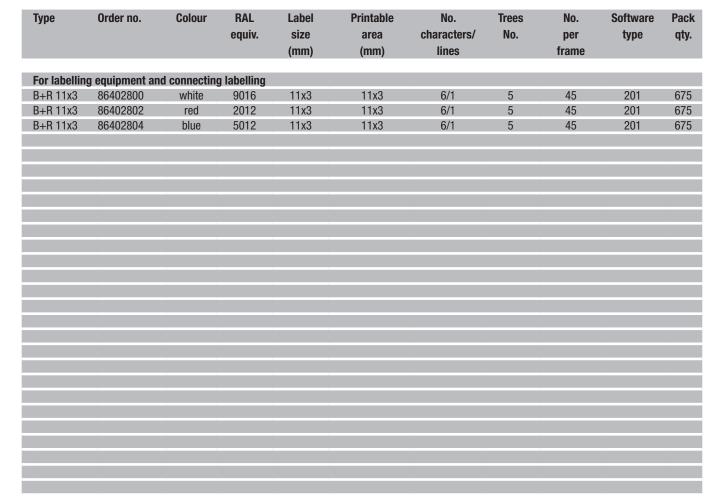
**Halogen-free component labelling**
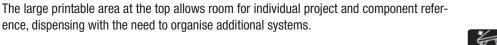
High-quality, halogen-free label plates to snap into devices.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.





| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **For labelling equipment and connecting labelling** | | | | | | | | | | |
| B+R 11x3 | 86402800 | white | 9016 | 11x3 | 11x3 | 6/1 | 5 | 45 | 201 | 675 |
| B+R 11x3 | 86402802 | red | 2012 | 11x3 | 11x3 | 6/1 | 5 | 45 | 201 | 675 |
| B+R 11x3 | 86402804 | blue | 5012 | 11x3 | 11x3 | 6/1 | 5 | 45 | 201 | 675 |

## KSK type (universal adhesive label)

-40 to 140 °C

PC
Adhesive 467

V0

Halogen-free component and component location labelling

High-quality, halogen-free adhesive label plates.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organise additional systems.
The flat construction allows the label holder to be used as a component location marker inside the top hat rail.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|-----------|-----------------|---------------------|----------------------|-----------|---------------|--------------|-----------|
| KSK 11x9 | 86421034 | white | 9016 | 11x9 | 11x9 | 5/2 | 4 | 44 | 61 | 1400 |
| KSK 11x9 | 86421035 | yellow | 1018 | 11x9 | 11x9 | 5/2 | 4 | 44 | 61G | 1400 |
| KSK 11x9 | 86421039 | red | 2012 | 11x9 | 11x9 | 5/2 | 4 | 44 | 61R | 1400 |
| | | | | | | | | | | |
| KSK 15x9 | 86421036 | white | 9016 | 15x9 | 15x9 | 7/2 | 4 | 44 | 63 | 1400 |
| KSK 15x9 | 86421037 | yellow | 1018 | 15x9 | 15x9 | 7/2 | 4 | 44 | 63G | 1400 |
| KSK 15x9 | 86421041 | red | 2012 | 15x9 | 15x9 | 7/2 | 4 | 44 | 63R | 1400 |
| | | | | | | | | | | |
| KSK 20x9 | 86421038 | white | 9016 | 20x9 | 20x9 | 11/2 | 4 | 20 | 66 | 680 |
| KSK 20x9 | 86421088 | yellow | 1018 | 20x9 | 20x9 | 11/2 | 4 | 20 | 66G | 680 |
| KSK 20x9 | 86421043 | red | 2012 | 20x9 | 20x9 | 11/2 | 4 | 20 | 66R | 680 |
| | | | | | | | | | | |
| KSK 35x9 | 86421045 | white | 9016 | 35x9 | 35x9 | 19/2 | 4 | 12 | 58W | 360 |
| KSK 35x9 | 86421047 | yellow | 1018 | 35x9 | 35x9 | 19/2 | 4 | 12 | 58G | 360 |
| KSK 35x9 | 86421049 | red | 2012 | 35x9 | 35x9 | 19/2 | 4 | 12 | 58R | 360 |
| | | | | | | | | | | |
| KSK 70x9 | 86421051 | white | 9016 | 70x9 | 70x9 | 38/2 | 1 | 11 | 57W | 330 |
| KSK 70x9 | 86421053 | yellow | 1018 | 70x9 | 70x9 | 38/2 | 1 | 11 | 57G | 330 |
| KSK 70x9 | 86421055 | red | 2012 | 70x9 | 70x9 | 38/2 | 1 | 11 | 57R | 330 |

Consult labelling system for suitable base plates

# TYPE KSZ

-40 to 140 °C
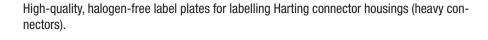
PC

V0
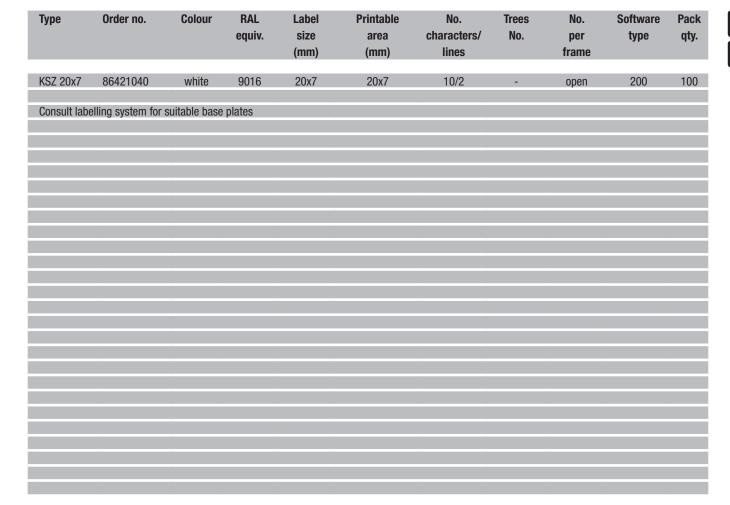
Halogen-free component labelling

High-quality, halogen-free label plates for labelling Harting connector housings (heavy connectors).

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|-----------|-----------------|---------------------|----------------------|-----------|---------------|--------------|-----------|
| KSZ 20x7 | 86421040 | white | 9016 | 20x7 | 20x7 | 10/2 | - | open | 200 | 100 |

Consult labelling system for suitable base plates

## KM 2 / KM 20 type (adhesive holder)

-40 to 140 °C

PVC
Adhesive 467

V0

Adhesive assembly

High-quality, transparent adhesive label holders.
If the bonding surface is prepared properly the acrylic adhesive can form a permanent bond.



KM 2...



KM 20

| Type | Order no. | Colour | length mm | Size mm | for label plate | No. idents BK23/BK30 | Pack qty. |
|------|-----------|--------|-----------|---------|-----------------|----------------------|-----------|
| KM 2/16 | 86321010 | transparent | 16 | 9x16 | KS 4.../DM 4... | 6/5 | 1000 |
| KM 2/22 | 86321012 | transparent | 22 | 9x22 | KS 4.../DM 4... | 9/7 | 1000 |
| KM 2/25 | 86321014 | transparent | 25 | 9x25 | KS 4.../DM 4... | 10/8 | 1000 |
| | | | | | | | |
| KM 20 | 86321016 | transparent | 20 | 10x20 | KSO 20x9 | - | 1000 |
| | | | | | | | |
| **Self-adhesive with special adhesive tape** | | | | | | | |
| KM 02/16 | 86321046 | transparent | 16 | 9x16 | KS 4.../DM 4... | 6/5 | 1000 |

# Type KM

| | -40 to 140 °C |
| | PVC |
| | V0 |
| | For further versions see chapter on |

High-quality, transparent label holder for component labelling.
Mounted with cable ties.





| Type | Order no. | length mm | Width mm | for label plate | No. idents BK23/BK30 | Cable ties max. width of mm | Recommended min. diameter mm | Pack qty. |
|---|---|---|---|---|---|---|---|---|
| **Labelling lengthways along the cable/conduit** | | | | | | | | |
| KM 4/23 | 86321020 | 23 | 4 | KS 4/x; DM 4... | 10/7 | 5 | 5 | 1000 |
| KM 4/28 | 86321022 | 28 | 4 | KS 4/x; DM 4... | 12/9 | 5 | 5 | 1000 |
| KM 4/31 | 86321024 | 31 | 4 | KS 4/x; DM 4... | 13/10 | 5 | 5 | 1000 |
| KM 4/36 | 86321026 | 36 | 4 | KS 4/x; DM 4... | 15/12 | 5 | 5 | 1000 |
| KM 4/45 | 86321028 | 45 | 4 | KS 4/x; DM 4... | 19/15 | 5 | 5 | 1000 |
| | | | | | | | | |
| **Single-line and multi-line** | | | | | | | | |
| KM 9/20 | 86321040 | 20 | 9 | KSO 20x9; DM 9... | - | 5 | 10 | 1000 |
| KM 9/35 | 86321042 | 35 | 9 | KSO 35x9; DM 9... | - | 5 | 10 | 500 |
| KM 15/27 | 86321056 | 27 | 15 | KS 15/27; DM 15... | - | 5 | 14 | 500 |
| KM 15/49 | 86321058 | 49 | 15 | KS 15/49; DM 15... | - | 5 | 14 | 250 |
| KM 15/67 | 86321060 | 67 | 15 | KS 15/67; DM 15... | - | 5 | 14 | 125 |
| | | | | | | | | |
| **Pre-assembled label holders** | | | | | | | | |
| KKM 4/23 | 86321050 | 23 | 4 | KS 4/x; DM 4... | 10/7 | 5 | 5 | 250 |
| KM 4/23 fitted with cable tie KB 55 | | | | | | | | |
| KKM 9/20 | 86321052 | 20 | 9 | KSO 20x9; DM 9... | - | 5 | 10 | 250 |
| KM 9/20 fitted with cable tie KB 55 | | | | | | | | |
| | | | | | | | | |
| For correct size of cable tie KB see accessories | | | | | | | | |

## Type KM-B

-40 to 60 °C

PVC

V0

Standard label holder

High-quality, blue-coloured flexible label holders for labelling wires, cables and conduits.
They hold the idents (BK) and the ACS labels type KS, KSO or DM.
The label holders are fixed in place with cable ties.





| Type | Order no. | length mm | for label plate | No. idents BK23/BK30 | Cable ties max. width of mm | Recommended min. diameter mm | Pack qty. |
|---|---|---|---|---|---|---|---|
| **Labelling lengthways along the cable/conduit** | | | | | | | |
| | | | | | | | |
| **Single-line** | | | | | | | |
| KM 4/12B | 86321074 | 12 | KS4/12; DM 4... | 6/5 | 5 | 5 | 2000 |
| KM 4/18B | 86321075 | 18 | KS4/18; DM 4... | 7/6 | 5 | 5 | 2000 |
| KM 4/23B | 86321076 | 23 | KS4/23; DM 4... | 10/7 | 5 | 5 | 1000 |
| KM 4/30B | 86321077 | 30 | KS4/30; DM 4... | 13/10 | 5 | 5 | 1000 |
| | | | | | | | |
| **Single-line and multi-line** | | | | | | | |
| KM 9/20B | 86321080 | 20 | KS9/20; DM 9... | - | 5 | 5 | 1000 |
| KM 9/35B | 86321081 | 35 | KS9/35; DM 9... | - | 5 | 5 | 500 |
| KM 9/70B | 86321082 | 70 | KS9/70; DM 9... | - | 5 | 5 | 250 |

# KM 6 type

-40 to 140 °C

PVC

V0

High-quality, transparent label holder for component labelling.
Assembly is via snap-in action.
Adaptors render the label holders usable for component location labelling.





| Type | Order no. | Colour | length mm | for label plate | No. idents BK23/BK30 | Pack qty. |
|------|-----------|--------|-----------|-----------------|----------------------|-----------|
| KM 6/15 * | 86321030 | transparent | 15 | KS 4.../DM 4... | 6/5 | 1000 |
| KM 6/18 * | 86321032 | transparent | 18 | KS 4.../DM 4... | 7/6 | 1000 |
| KM 6/21 * | 86321034 | transparent | 21 | KS 4.../DM 4... | 9/7 | 1000 |
| KM 6/27 * | 86321036 | transparent | 27 | KS 4.../DM 4... | 11/9 | 1000 |

* Component location labelling in conjunction with:
BZS label rail

## Type BS

-40 to 140 °C

PVC

V0

For the subsequent labelling of control gear or component location.
The BS 9/10 label holder is secured by means of a self-clamping (spring-loaded) base.



BS 3



BS 1 / BS 2 / BS 4



BS 9 / BS 10
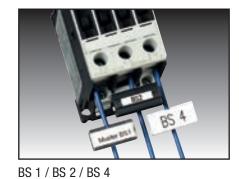
| Type | Order no. | Application range from - to mm | Wire cross-section from - to mm² | for label plate | No. idents BK23/BK30 | Printable area mm | No. characters/ lines | No. per sheet | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **Clamping piece with top part to hold paper strips for lengthways inscription** | | | | | | | | | | |
| (Supplied with paper strips) | | | | | | | | | | |
| BS 1 | 86281010 | max. 3.7 | 0.5–2.5 | - | - | 27x8 | 10/2 | 256 | BSM | 500 |
| | | | | | | | | | | |
| **DIN A4 paper sheet with punched margin for BS 1** | | | | | | | | | | |
| Paper sheet | 86281013 | - | - | - | - | 25x8 | 10/2 | 256 | BSM | 2560 |
| | | | | | | | | | | |
| **Clamping piece incl. top part for BK or KS 4/x quick-fit labels** | | | | | | | | | | |
| BS 2 | 86281014 | max. 3.7 | 0.5–2.5 | KS 4.../DM 4... | 11/9 | 27x4 | 12/1 | - | - | 500 |
| | | | | | | | | | | |
| **Clamping piece for KM 7 und BS 5** | | | | | | | | | | |
| BS 3 | 86281016 | max. 3.7 | 0.5–2.5 | - | - | - | - | - | - | 190 |
| | | | | | | | | | | |
| **Clamping piece incl. top part for ACS plotter labelling** | | | | | | | | | | |
| BS 4 | 86281018 | max. 3.7 | 0.5–2.5 | 27x12 | - | 27x12 | 12/3 | - | 79 | 190 |
| BS 4 requires no base plate | | | | | | | | | | |
| | | | | | | | | | | |
| **Label carrier (self-clamping)** | | | | | | | | | | |
| Matching label holder KM 6/18 or KSS 20x9 | | | | | | | | | | |
| BS 9 | 86281024 | max. 5.2 | - | - | - | - | - | - | - | 50 |
| BS 10 | 86281026 | max. 11.0 | - | - | - | - | - | - | - | 50 |

# type SKDL/E (for cable guide rail type KDL/E)

-40 to 80 °C

PVC

V0
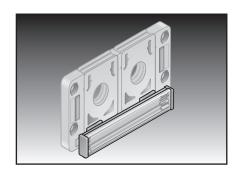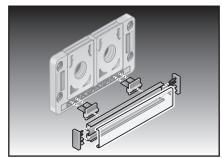
Labelling system for
KDL/E cable entry system

The labelling set for the KDL/E cable entry system was developed as a simple means of accommodating a great deal of labelling information in or on the KDL/E cable entry system. There are various versions available adapted to the different cable entry systems. The set consists of holder, label rail, plug and transparent cover. The label rail can hold the KS 15/... labels.

| Type | Order no. | Colour | Suitable for | For label: | Pack qty. |
|---|---|---|---|---|---|
| **Labelling set for cable guide rail type KDL/E** | | | | | |
| BZS 9 SKDL/E 16 | 86301232 | black/transparent | KDL/E 16 | KS 15/... | 1 |
| BZS 9 SKDL/E 24 | 86301236 | | KDL/E 24 | KS 15/... | 1 |
| BZS 15 SKDL/E 16 | 86301234 | | KDL/E 16 | KS 15/... | 1 |
| BZS 15 SKDL/E 24 | 86301238 | | KDL/E 24 | KS 15/... | 1 |
| | | | | | |
| **Adapter set consisting of** | | | | | |
| - Holder | | | | | |
| - Labelling rail | | | | | |
| - Transparent cover | | | | | |
| - Sealing plugs | | | | | |

## BZS type (9 mm label rail)

-40 to 80 °C

PVC
BZS/K: Adhesive 4930  BZS/SK: Adh. 1780

V0

Mounting rail for component location labelling
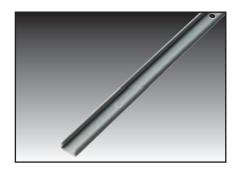
Label rail for component location labelling – provides a base for gluing.
For riveting, screwing, or gluing.
Pre-punched holes (distance between holes 100 mm; hole diameter 4 mm).

| Type | Order no. | length mm | Colour | Pack qty. |
|---|---|---|---|---|
| **with holes** | | | | |
| BZS 37 | 86301010 | 37 | grey | 100 |
| BZS 500 | 86301012 | 500 | grey | 10 |
| BZS 600 | 86301014 | 600 | grey | 10 |
| BZS 1000 | 86301016 | 1000 | grey | 10 |
| BZS 1300 | 86301017 | 1300 | grey | 10 |
| | | | | |
| **incl. bore hole and adhesive tape as installation aid** | | | | |
| BZS 500 K | 86301018 | 500 | grey | 10 |
| BZS 600 K | 86301020 | 600 | grey | 10 |
| BZS 1000 K | 86301022 | 1000 | grey | 10 |
| BZS 1300 K | 86301027 | 1300 | grey | 10 |
| | | | | |
| **self-adhesive (without bore holes) for rough surfaces (hammer enamel)** | | | | |
| BZS 500 SK | 86301032 | 500 | grey | 10 |
| BZS 600 SK | 86301034 | 600 | grey | 10 |
| BZS 1000 SK | 86301036 | 1000 | grey | 10 |

murrplastik

# BZS type (15 mm label rail)

-40 to 80 °C

PVC
Adhesive 4930
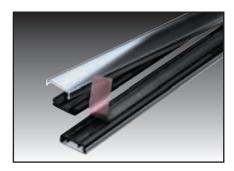
V0

Mounting rail for component location
labelling

Label rail for component location labelling providing a base for gluing.
The transparent cover is recommended to keep the label plates clean and free of mechanical stresses.





| Type | Order no. | length mm | Colour | Pack qty. |
|---|---|---|---|---|
| **Self-adhesive (no holes)** | | | | |
| BZS 1000K/KS | 86301024 | 1000 | black | 25 |
| BZS 1000K/KS | 86301026 | 1000 | white | 25 |
| | | | | |
| **Transparent cover for BZS 1000K/KS** | | | | |
| TA 1000 | 86441416 | 1000 | transparent | 25 |

## BZS labelling system

-40 to 80 °C

PVC

V0

Mounting rail for component location labelling
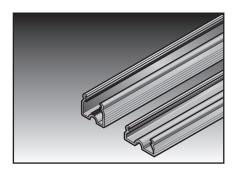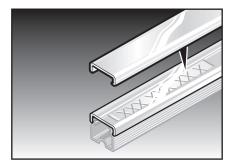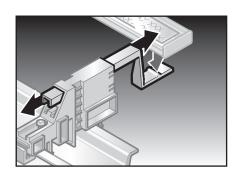
The BZS system was developed as a simple means of accommodating a great deal of labelling information in or on the control cabinet. The BZS system is extremely versatile. The labelling rail with the snap-in labels provides vertical and horizontal designation of terminal blocks and other components. The system can be fitted on the top hat rail, C-rail or the cable duct. The label holders can be cut to any length. The labels are simply clicked into the label holder.



| Type | Order no. | Colour | length in mm | Width in mm | For label: | Pack qty. |
|---|---|---|---|---|---|---|
| **Label holder for mounting label plates** | | | | | | |
| Label holder BZS 9  500 mm | 86301222 | black | 500 | 9 | KSx .../9 | 25 |
| Label holder BZS 9  600 mm | 86301224 | black | 600 | 9 | KSx .../9 | 25 |
| Label holder BZS 9  1000 mm | 86301226 | black | 1000 | 9 | KSx .../9 | 25 |
| Label holder BZS 9  1300 mm | 86301228 | black | 1300 | 9 | KSx .../9 | 25 |
| Label holder BZS 15  500 mm | 86301262 | black | 500 | 15 | KS 15/... | 25 |
| Label holder BZS 15  600 mm | 86301264 | black | 600 | 15 | KS 15/... | 25 |
| Label holder BZS 15  1000 mm | 86301266 | black | 1000 | 15 | KS 15/... | 25 |
| Label holder BZS 15  1300 mm | 86301268 | black | 1300 | 15 | KS 15/... | 25 |
| | | | | | | |
| **Transparent cover for label holder** | | | | | | |
| Cover BZS 9  500 mm | 86301242 | transparent | 500 | 9 | - | 25 |
| Cover BZS 9  600 mm | 86301244 | transparent | 600 | 9 | - | 25 |
| Cover BZS 9  1000 mm | 86301246 | transparent | 1000 | 9 | - | 25 |
| Cover BZS 9  1300 mm | 86301248 | transparent | 1300 | 9 | - | 25 |
| Cover BZS 15  500 mm | 86301282 | transparent | 500 | 15 | - | 25 |
| Cover BZS 15  600 mm | 86301284 | transparent | 600 | 15 | - | 25 |
| Cover BZS 15  1000 mm | 86301286 | transparent | 1000 | 15 | - | 25 |
| Cover BZS 15  1300 mm | 86301288 | transparent | 1300 | 15 | - | 25 |

# BZS labelling system accessories

-40 to 80 °C
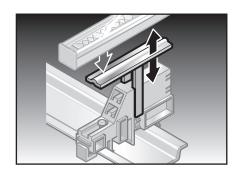
PVC
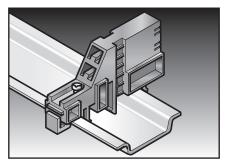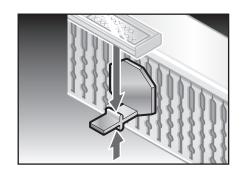
V0

The BZS labelling system can be tailored to any labelling requirement, offering horizontal or vertical inscriptions for control cabinets, labelling outside or within control cabinets, any length of label carriers and any number of label plates. The BSZ system meets your every need.

| Type | Order no. | Colour | Pack qty. |
|------|-----------|--------|-----------|
| **End cap for label holder** | | | |
| End cap BZS 9 | 86301219 | black | 80 |
| End cap BZS 15 | 86301259 | black | 80 |
| | | | |
| **Clamping socket to hold indicator / spacer / distance plate** | | | |
| Clamping socket | 86301210 | black | 30 |
| | | | |
| **Distance plate for clamping socket** | | | |
| Distance plate clamping socket | 86301218 | black | 100 |
| | | | |
| **Indicator for mounting label holders** | | | |
| Indicator | 86301212 | black | 100 |
| | | | |
| **Spacer for mounting label holders** | | | |
| Spacer | 86301214 | black | 100 |
| | | | |
| **Adapter for cable duct for mounting label holders** | | | |
| Cable duct holder | 86301216 | black | 100 |

## KSO / KS type

-40 to 140 °C

PC

V0

Halogen-free component labelling
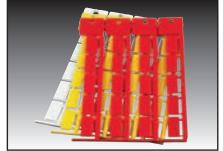
High-quality, halogen-free label plates for equipment location labelling with BZS label rail or KM adhesive holder.
The large printable area at the top allows room for individual project and component location reference, dispensing with the need to organise additional systems.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|------|-----------|--------|-----------|-----------------|--------------------|-----------------------|-----------|---------------|---------------|-----------|
| **For 9 mm width / Label length 11 mm** | | | | | | | | | | |
| KSO 11x9 | 86421024 | white | 9016 | 11x9 | 11x9 | 6/2 | 4 | 44 | 60 | 1400 |
| KSO 11x9 | 86421013 | yellow | 1018 | 11x9 | 11x9 | 6/2 | 4 | 44 | 60G | 1400 |
| KSO 11x9 | 86421024 | red | 2012 | 11x9 | 11x9 | 6/2 | 4 | 44 | 60R | 1400 |
| **For 9 mm width / Label length 15 mm** | | | | | | | | | | |
| KSO 15x9 | 86421026 | white | 9016 | 15x9 | 15x9 | 8/2 | 4 | 44 | 62 | 1400 |
| KSO 15x9 | 86421027 | yellow | 1018 | 15x9 | 15x9 | 8/2 | 4 | 44 | 62G | 1400 |
| KSO 15x9 | 86421019 | red | 2012 | 15x9 | 15x9 | 8/2 | 4 | 44 | 62R | 1400 |
| **For 9 mm width / Label length 20 mm** | | | | | | | | | | |
| KSO 20x9 | 86421028 | white | 9016 | 20x9 | 20x9 | 11/2 | 4 | 20 | 64 | 680 |
| KSO 20x9 | 86421080 | yellow | 1018 | 20x9 | 20x9 | 11/2 | 4 | 20 | 65G | 680 |
| KSO 20x9 | 86421030 | red | 2012 | 20x9 | 20x9 | 11/2 | 4 | 20 | 65R | 680 |
| **For 9 mm width / Label length 35 mm** | | | | | | | | | | |
| KSO 35x9 | 86421032 | white | 9016 | 35x9 | 35x9 | 18/2 | 4 | 12 | 69 | 360 |
| KSO 35x9 | 86421031 | yellow | 1018 | 35x9 | 35x9 | 18/2 | 4 | 12 | 69G | 360 |
| KSO 35x9 | 86421033 | red | 2012 | 35x9 | 35x9 | 18/2 | 4 | 12 | 69R | 360 |
| **For 9 mm width / Label length 70 mm** | | | | | | | | | | |
| KSO 70x9 | 86421082 | white | 9016 | 70x9 | 70x9 | 38/2 | 1 | 11 | 280 | 330 |
| KSO 70x9 | 86421083 | yellow | 1018 | 70x9 | 70x9 | 38/2 | 1 | 11 | 282 | 330 |
| KSO 70x9 | 86421084 | red | 2012 | 70x9 | 70x9 | 38/2 | 1 | 11 | 281 | 330 |

## KSO / KS type

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **For 15 mm width / Label length 17 mm** | | | | | | | | | | |
| KS 15/17 | 86361040 | white | 9016 | 15x17 | 15x17 | 9/3 | 4 | 24 | 84 | 720 |
| **For 15 mm width / Label length 27 mm** | | | | | | | | | | |
| KS 15/27 | 86361010 | white | 9016 | 15x27 | 15x27 | 15/3 | 4 | 16 | 85 | 480 |
| KS 15/27 | 86361012 | yellow | 1018 | 15x27 | 15x27 | 15/3 | 4 | 16 | 85G | 480 |
| KS 15/27 | 86361008 | red | 2012 | 15x27 | 15x27 | 15/3 | 4 | 16 | 85R | 480 |
| **For 15 mm width / Label length 49 mm** | | | | | | | | | | |
| KS 15/49 | 86361014 | white | 9016 | 15x49 | 15x49 | 27/3 | 4 | 8 | 86 | 240 |
| KS 15/49 | 86361015 | yellow | 1018 | 15x49 | 15x49 | 27/3 | 4 | 8 | 86G | 240 |
| KS 15/49 | 86361013 | red | 2012 | 15x49 | 15x49 | 27/3 | 4 | 8 | 86R | 240 |
| **For 15 mm width / Label length 67 mm** | | | | | | | | | | |
| KS 15/67 | 86361016 | white | 9016 | 15x67 | 15x67 | 37/3 | 4 | 4 | 87 | 120 |
| KS 15/67 | 86361017 | yellow | 1018 | 15x67 | 15x67 | 37/3 | 4 | 4 | 87G | 120 |
| KS 15/67 | 86361009 | red | 2012 | 15x67 | 15x67 | 37/3 | 4 | 4 | 87R | 120 |
| **In conjunction with BS 2, BS 9, BS 10, KM 2, KM 6 and BZS** | | | | | | | | | | |
| KS 4/12 | 86361026 | white | 9016 | 4x12 | 4x12 | 6/1 | 3 | 57 | 6 | 1026 |
| KS 4/12 | 86361018 | yellow | 1018 | 4x12 | 4x12 | 6/1 | 3 | 57 | 7 | 1026 |
| KS 4/12 | 86361020 | red | 2012 | 4x12 | 4x12 | 6/1 | 3 | 57 | 8 | 1026 |
| KS 4/12 | 86361022 | green | 6018 | 4x12 | 4x12 | 6/1 | 3 | 57 | 9 | 1026 |
| KS 4/12 | 86361024 | blue | 5012 | 4x12 | 4x12 | 6/1 | 3 | 57 | 10 | 1026 |
| KS 4/18 | 86361036 | white | 9016 | 4x18 | 4x18 | 10/1 | 3 | 57 | 1 | 1026 |
| KS 4/18 | 86361028 | yellow | 1018 | 4x18 | 4x18 | 10/1 | 3 | 57 | 2 | 1026 |
| KS 4/18 | 86361030 | red | 2012 | 4x18 | 4x18 | 10/1 | 3 | 57 | 3 | 1026 |
| KS 4/18 | 86361032 | green | 6018 | 4x18 | 4x18 | 10/1 | 3 | 57 | 4 | 1026 |
| KS 4/18 | 86361034 | blue | 5012 | 4x18 | 4x18 | 10/1 | 3 | 57 | 5 | 1026 |
| KS 4/18 | 86361228 | grey | 7038 | 4x18 | 4x18 | 10/1 | 3 | 57 | 1G | 1026 |
| KS 4/18 | 86361233 | orange | 2011 | 4x18 | 4x18 | 10/1 | 3 | 57 | 10 | 1026 |
| KS 4/18 | 86361235 | brown | 8003 | 4x18 | 4x18 | 10/1 | 3 | 57 | 1B | 1026 |

## ELW / ELG / ELPT type label plate

-40 to 150 °C

Polyester foil
Adhesive 4883
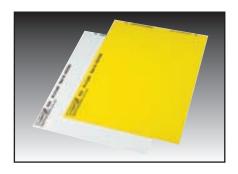
V0

Single-line and multi-line inscription,
A4 sheets

Self-adhesive consecutive labels on A4 sheets.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | No. of No. | No. per sheet | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sheet labels, white** | | | | | | | | | | |
| ELW 11x9R | 86561224 | white | 9016 | 11x9 | 11x9 | 5/2 | 16 | 400 | 95 | 4000 |
| ELW 15x6R | 86561228 | white | 9016 | 15x6 | 15x6 | 7/1 | 11 | 374 | 086 | 3740 |
| ELW 19x6R | 86561220 | white | 9016 | 19x6 | 19x6 | 10/1 | 9 | 306 | 97 | 3060 |
| ELW 19x6R | 86561222 | white | 9016 | 19x8 | 19x8 | 10/2 | 10 | 270 | 99 | 2700 |
| ELW 64x34R | 86561226 | white | 9016 | 64x34 | 64x34 | 35/7 | 3 | 24 | R90 | 240 |
| | | | | | | | | | | |
| **Sheet labels, yellow** | | | | | | | | | | |
| ELG 11x9R | 86562018 | yellow | 1018 | 11x9 | 11x9 | 5/2 | 16 | 400 | 94 | 4000 |
| ELG 15x6R | 86562022 | yellow | 1018 | 15x6 | 15x6 | 7/1 | 11 | 374 | 087 | 3740 |
| ELG 19x6R | 86562014 | yellow | 1018 | 19x6 | 19x6 | 10/1 | 9 | 306 | 96 | 3060 |
| ELG 19x8R | 86562016 | yellow | 1018 | 19x8 | 19x8 | 10/1 | 10 | 270 | 98 | 2700 |
| ELG 64x34R | 86562020 | yellow | 1018 | 64x34 | 64x34 | 35/7 | 3 | 24 | R91 | 240 |
| | | | | | | | | | | |
| **Sheet labels pastel turquoise** | | | | | | | | | | |
| ELPT 19x6 | 86561820 | Pastel turquoise | 6034 | 19x6 | 19x6 | 10/1 | 9 | 306 | 110 | 3600 |
| | | | | | | | | | | |
| **Accessories:** | | | | | | | | | | |
| ETH sheet label remover | 86562210 | | | | | | | | | 1 |

# Label plate type ELO (Siemens S7 component group)

**-40 to 150 °C**

**Polyester foil**

**V0**
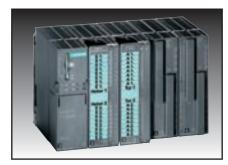
**Single-line and multi-line inscription**
**A4 sheets**

High-quality polyester label for single-line and multi-line inscription
The inscription reads Siemens S7 component group
The labels are arranged for DIN A4 laser printing.
The sheet can be divided into DIN A5 if required.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | No. of No. | No. per sheet | Software type | Pack qty. |
|------|-----------|--------|-----------|-----------------|--------------------|-----------------------|------------|---------------|---------------|-----------|
| **Insertion label for Siemens SPS 7** | | | | | | | | | | |
| ELO 27.5x12.85 | 86561254 | transparent | opaque | 27.5x12.85 | 27.5x12.85 | 8/11 | 8 | 88 | E52 | 880 |
| ELO 50x12.85 | 86561255 | transparent | opaque | 50.0x12.85 | 50.0x12.85 | 8/20 | 4 | 44 | E50 | 440 |
| ELO 50x25.5 | 86561253 | transparent | opaque | 50.0x25.5 | 50.0x25.5 | 16/20 | 7 | 28 | E80 | 280 |
| ELO 103.5x17.45 | 86561250 | transparent | opaque | 103.5x17.45 | 103.5x17.45 | 12/41 | 2 | 18 | E68 | 180 |
| ELO 103.5x22.85 | 86561252 | transparent | opaque | 103.5x22.85 | 103.5x22.85 | 13/41 | 2 | 14 | E70 | 140 |

## EDG type label plate

0 to 80 °C
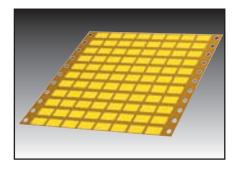
Reinforced textile
Adhesive EDG

Single-line and multi-line inscription

Self-adhesive consecutive textile labels with zig-zag fold and punched hole margin for matrix printers.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | No. of No. | No. per sheet | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sheet labels, yellow** | | | | | | | | | | |
| EDG 18x9 | 86561620 | yellow | 1018 | 18x9 | 18x9 | 10/2 | 8 | 96 | 51 | 9600 |

## Engraving material for component and component location labelling

### ☑ Duomatt/engraving mat

*Double-layer material*

**Composed of a coloured surface layer and a primarily black base.**

**Rear is coated with self-adhesive, pressure sensitive or a strongly adhesive film.**

**Suitable for engraving using ink or laser.**

### ☑ Triomatt

*Three-layered material*

**Similar to Duomatt, but with one coloured surface coat and two differently coloured bases.**

**Depending on the immersion depth of the graver, either the upper or lower based is revealed.**

**Suitable for engraving using ink or laser.**

### ☑ Alumatt

*Three-layered material*

**Two aluminium coats with an intermediary layer of melamine.**

**The dark melamine core is revealed during engraving to produce the script.**

### ☑ Aluminium

**Solid aluminium with a silver, black or other coloured anodic layer. For silver anodization the script must be inlaid after the engraving; that extra step is not necessary for other colours.**

# From Alumatt to double-layered material: Everything you need to know about engraving.

Engraving represents one of the most durable yet economic labelling methods.

Engraved labels last an extremely long time, are resistant to environment influences and mechanical stress. The combination of engraving and suitable media can produce long-lasting labels even in the harshest of industrial environments.

There are a variety of fastening possibilities. These range from a simple press-on action using a self-adhesive side to fastening with cable ties or a label holder system to be screwed or riveted down.

Murrplastik Systemtechnik offers you a wide spectrum of engraving materials in many shapes and colours, as well as different optional characteristics.

Please visit our internet site for a convenient overview and quick search options for your labelling needs. It's quick and easy to find the right solution based on the materials, dimensions, shape, colour and fastening type. Please visit

## www.murrplastik.de/acs/dm

# Engraving material for component and component location labelling

## ☑ Diversity of material

*Duomatt:* **Plastic two-layer material**

*Triomatt:* **Plastic three-layer material**

*Engraving mat:* **Plastic two-layer material**

*Alumatt:* **Aluminium three-layer material**

*Alu on mat:* **Aluminium single-layer material**

## ☑ Variety of shapes

*Standard shapes:* **Prepunched/milled plates for use on the mat, square and round in many shapes**

*Universal:* **Plastic and aluminium plates (300 x 200 mm) for general use**

## ☑ Variety of options

*Cornered model:* **Square-edged or with radius**

*Bore holes:* **in any count desired for screws or rivets**
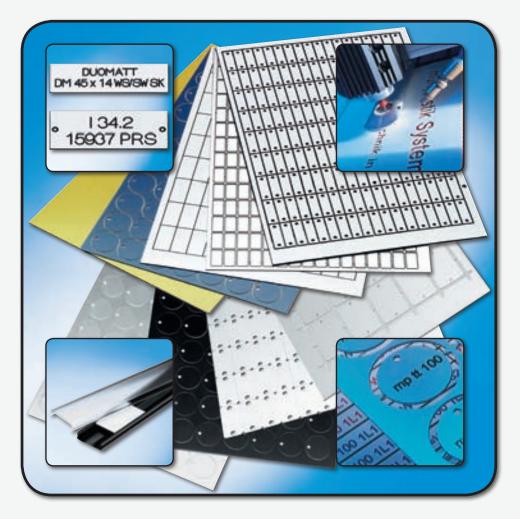
*Adhesive model:*
**- without adhesive (HF)**
**- self-adhesive (SK)**
**- self-adhesive for rough surfaces (SSK)**

# Labelling of push-buttons and signal lamps

## Overview of push-button and signal lamp manufacturers

| ABB- |
| --- |
| BSH-A |
| BSH-B |
| BSH-C |
| BSH-D |

### ABB

List of ABB push-buttons and signal lamps
and the Murrplastik labels that fit them
**Page 144**

| Allen Bradley- |
| --- |
| 800E 110 |
| 800E 120 |
| 800E 150 |
| 800E 160 |

### Allen Bradley

List of Allen Bradley push-buttons and signal
lamps and the Murrplastik labels that fit
them **Page 144**

| Möller- |
| --- |
| M22S-STDD |
| MSSS-ST |
| Schalterserie MRQ |
| Tasterelemente XA |

### Möller

List of Möller push-buttons and signal lamps
and the Murrplastik labels that fit them
**Page 145**

| Siemens- |
| --- |
| 3SB39 22-0AV |
| 3SB39 22-0AW |
| 3SB39 23-0AV |
| 3SB39 25-0AX |

### Siemens

List of Siemens push-buttons and signal
lamps and the Murrplastik labels that fit
them **Page 145**

| Telemechanique |
| --- |
| ZBZ 32 |
| ZBZ 33 |
| ZBZ 34 |
| ZBZ 35 |

### Telemechanique

List of Telemechanique push-buttons and
signal lamps and the Murrplastik labels that
fit them **Page 145**

![murrplastik logo]

# Overview of labels and label holders

## Label holder BT / BTK

The BT and BTK label holders are used for labelling non-proprietary components and assemblies.　　**Page 146**

## Label holder BT sorted

Small assortment for low volumes: Label holders, label plates, covers and screws.　　**Page 147**

## Label holder BMA

Neutral label holders type BMA can be outfitted with various label frames of type BT-SR...　　**Page 148**

## BZS labelling system

The BZS system makes it easy to apply a wide variety of labelling information in or around the control cabinet.　　**Page 149**

## KS labels

High-quality, halogen-free, universal label plate for single-line and multi-line inscription.　　**Page 150**

## Label plate ELW / ELO

Polyester sheet labels for single-line and multi-line inscription of Siemens 3SB push-button and signal lamp holders.　　**Page 151**

## DM label plate

Double-layer material with a coloured outer layer and mounting holes. Suitable for plotting, engraving and lasing.　　**Page 152**

# Labelling of push-buttons and signal lamps

The Murrplastik labelling system programme offers five different options for labelling push-buttons and signal lamps. They are depicted in the following.
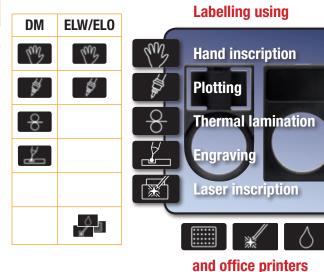
## Label holder from the manufacturer

A label from the Murrplastik labelling system is clicked or inserted into the original label holder from the push-button or signal lamp manufacturer.

Compatible Murrplastik label plates:
• Engraving material such as Duomatt DM and
• polyester labels ELO/ELW

## fixed-purpose
## not freely positionable
## assigned

| DM | ELW/ELO |
|----|---------|
| 🖐 | 🖐 |
| ✒ | ✒ |
| ⊖ | |
| ⬚ | |
| | |
| | 🖨 |

**Labelling using**

| | |
|---|---|
| 🖐 | Hand inscription |
| ✒ | Plotting |
| ⊖ | Thermal lamination |
| ⬚ | Engraving |
| ✦ | Laser inscription |

**and office printers**

---


**PC labels**


**Duomatt/Triomatt labels**


**Alumatt/Aluminium labels**


**Paper/Polyester/Textile labels**

## Neutral universal labels

Compatible with all push-buttons and signal lamps from all manufacturers.

This type of label involves affixing any label plate desired from the Murrplastik labelling system programme directly onto the control cabinet in the desire position.

Compatible Murrplastik label plates:
• Polycarbonate labels such as KS
• Engraving material like Duomatt DM/TMG
• Engraving material like Alumatt ALM/ALU
• Sheet labels such as ELO/ELW

## independent
## can be positioned freely
## not assigned

# The five labelling types for push-buttons and signal lamp labelling

## Label holder BT and BTK

Compatible with all push-buttons and signal lamps from all manufacturers.

This type of labelling involves an appropriately sized label plate clicked into a Murrplastik label holders of type BT or BTK.

All label plates up to 2.0 mm in thickness are compatible with this: From simple adhesive stickers to polycarbonate plates and Duomatt and Alumatt materials, the Murrplastik labelling system program can master every labelling situation.

The label carriers type BT and BTK can be positioned as desired on the control cabinet or installation, either through gluing, screwing or riveting.

The BTK label holders come with a self-adhesive film on their back to help with mounting: apply, screw down, finished!

Where necessary, a transparent cover can be applied to protect the inserted labels against soiling, mechanical stresses or environmental influence.

The inscription on push-buttons and service lamps can also be changed after installation: simply switch the inserted label plate to provide a different message.

### Labelling using

**Hand inscription**

**Plotting**

**Thermal lamination**

**Engraving**

**Laser inscription**

### and office printers

## independent
## can be positioned freely
## not assigned

Compatible Murrplastik label plates:
• Polycarbonate labels such as KS
• Engraving material like Duomatt DM/TMG
• Engraving material like Alumatt ALM/ALU
• Sheet labels such as ELO/ELW

| KS | DM/TMG | ALM/ALU | ELW/ELO |
|----|--------|---------|---------|
| 🖐 | 🖐 | | 🖐 |
| ✎ | ✎ | | ✎ |
| ⊗ | ⊗ | | |
| ⚒ | ⚒ | ⚒ | |
| 🔦 | | | |
| | | | 🖨 |

## Label holder system BT 22.5

The label plate from the Murrplastik labelling system is glued or clicked into the universal label holder type BT 22.5.

System und label holder then form a fixed mounting unit. The universal label holder is compatible with push-buttons and signal lamps from many manufacturers, provided the exterior diameter is 22.5 mm and above. A variation with a special cutout contour has been developed for push-buttons and signal lamps from Telemechanique.

Where necessary, a transparent cover can be applied to protect the inserted labels against soiling, mechanical stresses or environmental influence.

The inscription on push-buttons and service lamps can also be changed after installation: simply switch the inserted label plate to provide a different message.

Compatible Murrplastik label plates:
• Polycarbonate labels such as KS
• Engraving material like Duomatt DM/TMG
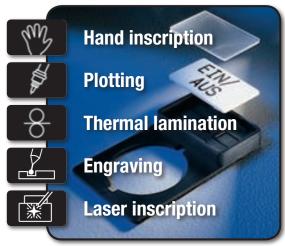
# fixed-purpose
# not freely positionable
# assigned

**Labelling using**

**Hand inscription**

**Plotting**

**Thermal lamination**

**Engraving**

**Laser inscription**

**and office printers**

| KS | DM/TMG | ALM/ALU |
|---|---|---|
| 🖐 | 🖐 | |
| ✒ | ✒ | |
| ⊖ | ⊖ | |
| ✎ | ✎ | ✎ |
| ✶ | | |

**PC labels**

**Duomatt/Triomatt labels**

## The five labelling types for push-buttons and signal lamp labelling

### BMA label holder system

Our labelling system for the latest generation of push-button and signal lamps consists of separated system and label holders.
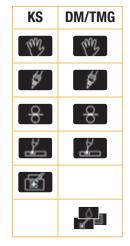
That provides an extremely flexible system: the system holder is affixed with the device in the control cabinet, and is compatible with push-buttons and signal lamps from many manufacturers (exterior diameter of 22.5 mm and greater). A system holder is available for the US market for push-buttons and signal lamps with an exterior diameter of 30 mm.

A label holder fulfilling your requirements is snapped into the system holder. The desired label plate is then inserted or clicked into the label holder.
Where necessary, a transparent cover can be applied to protect the inserted labels against soiling, mechanical stresses or environmental influence.

Where necessary, a transparent cover can be applied to protect the inserted labels against soiling, mechanical stresses or environmental influence.

No tools are required to switch out of the label plate itself or the entire label holder (larger printable areas, multiple line inscription) at a later time, and this can be performed during ongoing operation without opening the control cabinet.

If at least two system holders are mounted in a row, then the BZS 9 or BZS 15 label rails can help provide labelling along the full length of the front of the control cabinet. The label rails can also be outfitted with a transparent cover to protect the label plates and inscriptions.

| KS | DM/TMG |
|----|--------|
| ✋ | ✋ |
| 🖊 | 🖊 |
| 8 | 8 |
| 🔧 | 🔧 |
| 🔦 | |
| | 🏷 |

**Labelling using**

| | |
|---|---|
| ✋ | **Hand inscription** |
| 🖊 | **Plotting** |
| 8 | **Thermal lamination** |
| 🔧 | **Engraving** |
| 🔦 | **Laser inscription** |
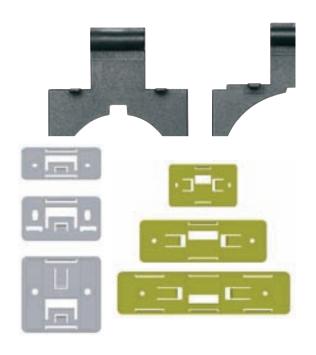
**and office printers**

Compatible Murrplastik label plates:
• Polycarbonate labels such as KS
• Engraving material like Duomatt DM/TMG

# fixed-purpose
# not freely positionable
# assigned

## Push-button and signal lamp labelling selection table

### Which Murrplastik label is suitable for which device?

**Allen Bradley**
1492 J3
1492 J5
1492 J6

Device manufacturers and device types are organised alphabetically into tables. Look there for your device type.

An alphabet system is used to make it easy to identify which Murrplastik labels and label holders are suitable for each individual device.

**/MP-Schildtypen**
Ⓐ Ⓑ Ⓒ
Ⓓ Ⓔ Ⓕ Ⓖ
Ⓗ Ⓘ

Ⓐ DM 27x12,5
SI/SW R SK
2x2 mm
Seite 999

Letter symbol, precise label descriptions, numbers and diameters for bore holes, catalogue page with product/ordering information.

a) upper row of symbols: mounting style for label plate or label holder (details see catalogue tuck-in flap)

b) lower row of symbols: labelling technology for the label plate (details see catalogue tuck-in flap)

| Explanations for Duomatt: | (DM) colour codes | features codes | |
|---|---|---|---|
| **WS** = white | **BL** = blue | **R** | = labels with radius |
| **SSI** = Siemens silver | **SI.Geb** = brushed silver | **2x3.0 mm** | = number and diameter of bore holes |
| **SW** = black | **GR** = green | **HF** | = labels **without adhesive rear** (adhesive film) |
| **SI** = silver | **GO** = gold | **SK** | = labels **with adhesive rear** (self-adhesive film) |
| **RT** = red | **GRA** = grey | **SKS** | = labels **with highly adhesive rear** (self-adhesive film) |
| **GE** = yellow | **AGN** = green apple | | |

### ABB devices/MP label types

| | |
|---|---|
| BSH-A | Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ |
| BSH-B | Ⓐ Ⓖ Ⓗ |
| BSH-C | Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ |
| BSH-D | Ⓐ Ⓖ Ⓗ |

### Label type, mounting and inscription

Ⓐ BT 22.5 Page 146

Ⓑ DM 27x8 BL/WS R SK Page 152

Ⓒ DM 27x8 GE/SW R SK Page 152

Ⓓ DM 27x8 RT/WS R SK Page 152

### Label type, mounting and inscription

Ⓔ DM 27x8 WS/SW R SK Page 152

Ⓕ DM 27x8 SI/SW R SK Page 152

Ⓖ DM 27x8 SI/SW R HF Page 152

Ⓗ DM 27x8 SSI/SW R SK Page 152

### Allen Bradley devices/MP label types

| | |
|---|---|
| 800E 110 | Ⓐ Ⓑ |
| 800E 120 | Ⓐ Ⓑ |
| 800E 150 | Ⓐ Ⓑ |
| 800E 160 | Ⓐ Ⓑ |
| 800E 200 | Ⓐ Ⓑ |
| 800E 1PM | Ⓐ Ⓑ |
| 800E 2PM | Ⓐ Ⓑ |

### Label type, mounting and inscription

| | |
|---|---|
| 800E 3PM | Ⓐ Ⓑ |
| 800E 5PM | Ⓐ Ⓑ |

### Label type, mounting and inscription

Ⓐ Duomatt (on request) Page 152

Ⓑ BT 22.5 Page 146
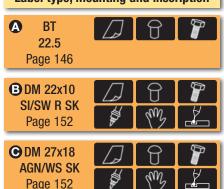
# Push-button and signal lamp labelling selection table

## Möller devices/MP label types

| Device | Label types |
|---|---|
| M22S-STDD | Ⓐ Ⓒ Ⓓ |
| MSSS-ST | Ⓐ Ⓒ Ⓓ |
| Switch series MRQ 16 | Ⓑ |
| Key elements XA/ XB | Ⓔ |

### Label type, mounting and inscription

Ⓐ BT 22.5
Page 146

Ⓑ DM 22x10 SI/SW R SK
Page 152

Ⓒ DM 27x18 AGN/WS SK
Page 152

### Label type, mounting and inscription

Ⓓ DM 27x18 RT/WS SK
Page 152

Ⓔ DM 27x18 SSI/SW R SK
Page 152

## Siemens devices/MP label types

| Device | Label types |
|---|---|
| 3SB38 01-0AA | Ⓐ Ⓑ Ⓔ |
| 3SB38 02-0AA | Ⓐ Ⓑ Ⓔ |
| 3SB38 03-0AA | Ⓐ Ⓑ Ⓔ |
| 3SB38 04-0AA | Ⓐ Ⓑ Ⓔ |
| 3SB38 06-0AA | Ⓐ Ⓑ Ⓔ |
| 3SB39 22-0AV | Ⓐ Ⓒ Ⓕ |
| 3SB39 22-0AW | Ⓐ Ⓒ Ⓕ |
| 3SB39 23-0AV | Ⓐ Ⓓ Ⓖ |
| 3SB39 25-0AX | Ⓐ Ⓗ |
| 3SB39 42-0AX | Ⓐ Ⓒ Ⓕ |
| 3SB39 43-0AX | Ⓐ Ⓓ Ⓖ |

### Label type, mounting and inscription

Ⓐ BT 22.5
Page 146

Ⓑ DM 22x22 SSI/SW R SK
Page 152

Ⓒ DM 27x12.5 SI/SW R SK 2x2 mm
Page 152

Ⓓ DM 27x27 SI/SW GEB. R SK
Page 152

### Label type, mounting and inscription

Ⓔ ELW 22x22
Page 151

Ⓕ ELW 27x12.5
Page 151

Ⓖ ELW 27x27
Page 151

Ⓗ ELO 28x17.5
Page 151

## Telemechanique devices/MP label types

| Device | Label types |
|---|---|
| ZBZ 32 | Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ |
| ZBZ 33 | Ⓐ Ⓖ Ⓗ |
| ZBZ 34 | Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ |
| ZBZ 35 | Ⓐ Ⓖ Ⓗ |
| 2 B 4 label holder | Ⓘ |

Ⓐ BT Harmony ZB4
Page 146

### Label type, mounting and inscription

Ⓑ DM 27x8 BL/WS R SK
Page 152

Ⓒ DM 27x8 GE/SW R SK
Page 152

Ⓓ DM 27x8 SI/SW R SK
Page 152

Ⓔ DM 27x8 RT/WS R SK
Page 152

### Label type, mounting and inscription

Ⓕ DM 27x8 WS/SW R SK
Page 152

Ⓖ DM 27x18 AGN/WS SK
Page 152

Ⓗ DM 27x18 RT/WS SK
Page 152

Ⓘ DM 27x18 SI/SW R HF
Page 152

## BT label holder

-40 to 80 °C

PVC
BTK: Adhesive 467

V0

Single-line and multi-line inscription

The BT and BTK label holders are used for labelling non-proprietary components and assemblies.
The BT and BTK holders are mounted with self-tapping screws.
Self-adhesive foil is supplied with the BTK version as an installation aid.
The transparent cover keeps the inserted label plates clean and free from mechanical load.
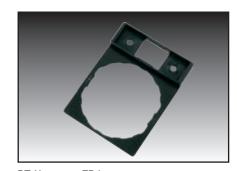
BT 15/xx / BTK 15/xx

BT 22.5 / BTK 22.5

BT Harmony ZB4

| Type | Order no. | Colour | for label size (mm) | Pack qty. |
|---|---|---|---|---|
| **Carrier** | | | | |
| BT 15/27 | 86441010 | black | 15x27 | 250 |
| BT 15/49 | 86441012 | black | 15x49 | 250 |
| BT 15/67 | 86441014 | black | 15x67 | 250 |
| | | | | |
| **Holder with adhesive tape on rear** | | | | |
| BTK 15/27 | 86441210 | black | 15x27 | 250 |
| BTK 15/49 | 86441212 | black | 15x49 | 250 |
| BTK 15/67 | 86441214 | black | 15x67 | 250 |
| | | | | |
| **For Ø 22.5 mm elements, label size 8x26.5 mm** | | | | |
| BT 22.5 | 86442018 | black | 8x26.5 | 480 |
| | | | | |
| **for elements from Möller Ø approx. 28 mm, label size 8x26.5 mm** | | | | |
| BT Harmony ZB4 | 86442016 | black | 8x26.5 | 250 |
| | | | | |
| **For Ø 22.5 mm elements, label size 15x27 mm** | | | | |
| with adhesive tape on reverse side | | | | |
| BTK 22.5 | 86441016 | black | 15x27 | 250 |
| | | | | |
| **Transparent cover** | | | | |
| TA 8/26.5 | 86441418 | Transp. | | 480 |
| TA 15/27 | 86441410 | Transp. | 15x27 | 480 |
| TA 15/49 | 86441412 | Transp. | 15x49 | 240 |
| TA 15/67 | 86441414 | Transp. | 15x67 | 120 |

# BT button and label holder range

Small packaging quantities.

Range S-BTK 22.5 comprises:
48x BTK 22.5; KS 15/27; TA 15/27 and self-tapping screws.

Range S-BTK 15/27 comprises:
48x BT 15/27; KS 15/27; TA 25/27 and self-tapping screws.

Range S-BTK 15/49 comprises:
48x BT 15/27; KS 15/49; TA 15/49 and self-tapping screws.

Range S-BTK 15/67 comprises:
48x BT 15/67; KS 15/67; TA 15/67 and self-tapping screws.



| Type | Order no. | Pack qty. |
|---|---|---|
| S-BTK 22.5 | 86441610 | 48 |
| S-BTK 15/27 | 86441612 | 48 |
| S-BTK 15/49 | 86441614 | 48 |
| S-BTK 15/67 | 86441616 | 48 |

## Label holder BMA

-40 to 80 °C

PVC

VO

Single-line and multi-line inscription
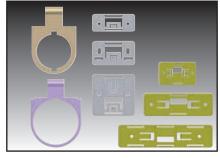
The BMA system is a flexible system for the labelling of push-buttons and signal lamps. We can oufit the neutral type BMA label holders with various plate frames type BT-SR... based on the labelling needs and desires.



BMA



BT-SR



Harmony
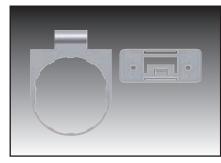
| Type | Order no. | Colour | for label size (mm) | Pack qty. |
|------|-----------|--------|---------------------|-----------|
| **Holder standard** | | | | |
| BMA 22.5 mm | 86442020 | black | | 50 |
| BMA 30.0 mm | 86442024 | black | | 50 |
| | | | | |
| **Standard label frame** | | | | |
| BT-SR 15x27 mm | 86442034 | black | 15x27 | 10 |
| BT-SR 15x49 mm | 86442036 | black | 15x49 | 10 |
| BT-SR 15x67 mm | 86442038 | black | 15x67 | 10 |
| BT-SR 27x12.5 mm | 86442028 | black | 27x12.5 | 10 |
| BT-SR 27x18 mm | 86442030 | black | 27x18 | 10 |
| BT-SR 27x27 mm | 86442032 | black | 27x27 | 10 |
| | | | | |
| **Holder Harmony** | | | | |
| BMA 22.5 mm Harmony | 86442022 | black | | 50 |
| | | | | |
| **Harmony label frame** | | | | |
| BT-SR 8x26.5 mm Harmony | 86442026 | black | 8x26.5 | 10 |
| | | | | |
| **Standard panel (with BZS fitting)** | | | | |
| BMA | 86442040 | black | | 10 |

# BZS labelling system
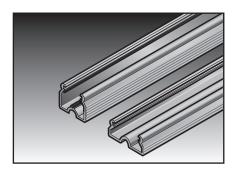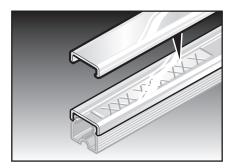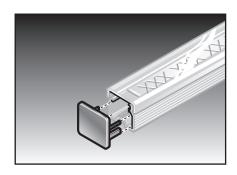
-40 to 80 °C

PVC

V0

Mounting rail for component location labelling

The BZS system was developed as a simple means of accommodating a great deal of labelling information in or on the control cabinet. The BZS system is extremely versatile. The labelling rail with the snap-in labels provides independent designation of all push-buttons and signal lamps. The transparent cover keeps the inserted label clean and free from mechanical load.
The end caps close the label rail off from the machine. The BZS T20 multi-function tool is available for optimum length adjustment of the label rail.





| Type | Order no. | Colour | length in mm | Width in mm | For label: | Pack qty. |
|---|---|---|---|---|---|---|
| **Label holder for mounting label plates** | | | | | | |
| Label holder BZS 9  500 mm | 86301222 | black | 500 | 9 | KS 9/... | 25 |
| Label holder BZS 9  600 mm | 86301224 | black | 600 | 9 | KS 9/... | 25 |
| Label holder BZS 9  1000 mm | 86301226 | black | 1000 | 9 | KS 9/... | 25 |
| Label holder BZS 9  1300 mm | 86301228 | black | 1300 | 9 | KS 9/... | 25 |
| Label holder BZS 15  500 mm | 86301262 | black | 500 | 15 | KS 15/... | 25 |
| Label holder BZS 15  600 mm | 86301264 | black | 600 | 15 | KS 15/... | 25 |
| Label holder BZS 15  1000 mm | 86301266 | black | 1000 | 15 | KS 15/... | 25 |
| Label holder BZS 15  1300 mm | 86301268 | black | 1300 | 15 | KS 15/... | 25 |
| | | | | | | |
| **Transparent cover for label holder** | | | | | | |
| Cover BZS 9  500 mm | 86301242 | transparent | 500 | 9 | - | 25 |
| Cover BZS 9  600 mm | 86301244 | transparent | 600 | 9 | - | 25 |
| Cover BZS 9  1000 mm | 86301246 | transparent | 1000 | 9 | - | 25 |
| Cover BZS 9  1300 mm | 86301248 | transparent | 1300 | 9 | - | 25 |
| Cover BZS 15  500 mm | 86301282 | transparent | 500 | 15 | - | 25 |
| Cover BZS 15  600 mm | 86301284 | transparent | 600 | 15 | - | 25 |
| Cover BZS 15  1000 mm | 86301286 | transparent | 1000 | 15 | - | 25 |
| Cover BZS 15  1300 mm | 86301288 | transparent | 1300 | 15 | - | 25 |
| | | | | | | |
| **End cap for label holder** | | | | | | |
| End cap BZS 9 | 86301219 | black | - | - | - | 80 |
| End cap BZS 15 | 86301259 | black | - | - | - | 80 |

## KS label plate (multi-line)

-40 to 140 °C

PC

V0

Single-line and multi-line inscription

High-quality, halogen-free, universal label plate for single-line and multi-line inscription. The KS label plate is inserted in base holders BT, BTK or BZS.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per frame | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|---|---|
| **Label length 26.5 mm for BT 22.5 and BT Harmony ZB4** | | | | | | | | | | |
| KS 8/26.5 | 86361060 | white | 9016 | 8x26.5 | 8x26.5 | 14/2 | 4 | 16 | 71 | 480 |
| | | | | | | | | | | |
| **Label length 27 mm for BT 15/27, BTK 15/27 and BTK 22.5** | | | | | | | | | | |
| KS 15/27 | 86361010 | white | 9016 | 15x27 | 15x27 | 15/3 | 4 | 16 | 85 | 480 |
| KS 15/27 | 86361012 | yellow | 1018 | 15x27 | 15x27 | 15/3 | 4 | 16 | 85G | 480 |
| | | | | | | | | | | |
| **Label length 49 mm for BT 15/49 and BTK 15/49** | | | | | | | | | | |
| KS 15/49 | 86361014 | white | 9016 | 15x49 | 15x49 | 27/3 | 4 | 8 | 86 | 240 |
| KS 15/49 | 86361015 | yellow | 1018 | 15x49 | 15x49 | 27/3 | 4 | 8 | 86G | 240 |
| | | | | | | | | | | |
| **Label length 67 mm for BT 15/67 and BTK 15/67** | | | | | | | | | | |
| KS 15/67 | 86361016 | white | 9016 | 15x67 | 15x67 | 37/3 | 4 | 4 | 87 | 120 |
| KS 15/67 | 86361017 | yellow | 1018 | 15x67 | 15x67 | 37/3 | 4 | 4 | 87G | 120 |

Consult labelling system for suitable base plates

# ELW / ELO type label plate

-40 to 140 °C

Polyester foil
Adhesive 4830
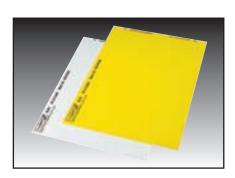
V0

Single-line and multi-line inscription
A4 sheets

High-quality polyester label for single-line and multi-line inscription of Siemens 3SB push-button and signal lamp holders.
The labels are arranged for DIN A4 laser printing.
The sheet can be divided into DIN A5 if required.

| Type | Order no. | Colour | RAL equiv. | Label size (mm) | Printable area (mm) | No. characters/ lines | Trees No. | No. per sheet | Software type | Pack qty. |
|------|-----------|--------|------------|-----------------|---------------------|-----------------------|-----------|---------------|--------------|-----------|
| **Transparent film for Siemens 3SB** | | | | | | | | | | |
| ELO 17.9 | 86561240 | opaque | | Ø 17.9 | 14x14 | 7/2 | - | 96 | M01 | 960 |
| ELO 28x17.5 | 86561242 | opaque | | 28x17.5 | 28x17.5 | 15/3 | - | 72 | M07 | 1080 |
| | | | | | | | | | | |
| **Self-adhesive sheet label roll for Siemens 3SB** | | | | | | | | | | |
| ELW 22X22 | 86561248 | white | 9016 | 22x22 | 22x22 | 13/4 | - | 70 | M09 | 1050 |
| ELW 27x12.5 | 86561244 | white | 9016 | 27x12.5 | 27x12.5 | 15/2 | - | 96 | M03 | 960 |
| ELW 27x27 | 86561246 | white | 9016 | 27x27 | 27x27 | 15/4 | - | 48 | M05 | 960 |

# Engraving materials for labelling of push-buttons and signal lamps

## ☑ Duomatt/engraving mat

*Double-layer material*

**Composed of a coloured surface layer and a primarily black base.**

**Rear is coated with self-adhesive, pressure sensitive or a strongly adhesive film.**

**Suitable for engraving using ink or laser.**

## ☑ Triomatt

*Three-layered material*

**Similar to Duomatt, but with one coloured surface coat and two differently coloured bases.**

**Depending on the immersion depth of the graver, either the upper or lower based is revealed.**

**Suitable for engraving using ink or laser.**

## ☑ Alumatt

*Three-layered material*

**Two aluminium coats with an intermediary layer of melamine.**

**The dark melamine core is revealed during engraving to produce the script.**

## ☑ Aluminium

**Solid aluminium with a silver, black or other coloured anodic layer. For silver anodization the script must be inlaid after the engraving; that extra step is not necessary for other colours.**

# From Alumatt to double-layered material: Everything you need to know about engraving.

Engraving represents one of the most durable yet economic labelling methods.

Engraved labels last an extremely long time, are resistant to environment influences and mechanical stress. The combination of engraving and suitable media can produce long-lasting labels even in the harshest of industrial environments.

There are a variety of fastening possibilities. These range from a simple press-on action using a self-adhesive side to fastening with cable ties or a label holder system to be screwed or riveted down.

Please visit our internet site for a convenient overview of the broad spectrum of engraving material from Murrplastik and quick search options for your labelling needs. It's quick and easy to find the right solution based on the materials, dimensions, shape, colour and fastening type. Please visit

## www.murrplastik.de/acs/dm

## ☑ Variety of shapes

*Standard shapes:*
**Prepunched/milled plates for use on the mat, square and round in many shapes**

*Universal:*
**Plastic and aluminium plates (300 x 200 mm) for general use**

## ☑ Variety of options

*Cornered model:*
**Square-edged or with radius**

*Bore holes:*
**in any count desired for screws or rivets**

*Adhesive model:*
**- without adhesive (HF)**
**- self-adhesive (SK)**
**- self-adhesive
  for rough surfaces (SSK)**

# System labelling

## Overview

### Type plate

Type plate for marking of installations, components, housings, and appliances

**Page 155**

### DM label plate

I 34.2
15937 PRS

Double-layer material with a coloured outer layer and mounting holes. Suitable for plotting, engraving and lasing. **Page 156**

### DMG label plate

Two-ply plastic material for inscribing or engraving. Specially made for use on engraving machines. **Page 156**

## Type plate

| | |
|---|---|
| 🌡️ | -40 to 60 °C |
| ⚛️ | PC |
| 🔥 | V0 |
| ❗ | Standard label holder |

Type plate for labelling installations, components, housings, and appliances.



TS

| Type | Order no. | Colour | Size L x W in mm | Title space l x b in mm | No. characters / lines | No. per sheet / Base plate | Software type | Pack qty. |
|---|---|---|---|---|---|---|---|---|
| **Complete set** | | | | | | | | |
| comprising base holder and cover | | | | | | | | |
| TS 75x50* | 86464020 | White/transparent | 95x55 | 75x50 | 41/10 | 1 | 301 | 10 |
| TS 95x75* | 86464010 | White/transparent | 110x75 | 95x70 | 52/14 | 1 | 300 | 10 |
| | | | | | | | | |
| **Basic support** | | | | | | | | |
| KS 75x50 | 86464022 | white | 96x56 | 75x50 | 41/10 | 1 | 301 | 20 |
| KS 95x75 | 86464012 | white | 112x76 | 95x70 | 52/14 | 1 | 300 | 20 |
| | | | | | | | | |
| **Cover with magnifying function** | | | | | | | | |
| TA 75x50 | 86464024 | transparent | 100x60 | - | - | - | - | 10 |
| TA 95x75 | 86464014 | transparent | 115x80 | - | - | - | - | 10 |
| | | | | | | | | |
| **inscriptable insert foil** | | | | | | | | |
| ELW 75x50* | 86561258 | white | 95x55 | 75x50 | 41/10 | 4 | 301 | 120 |
| ELW 95x75* | 86561256 | white | 110x75 | 95x70 | 52/14 | 4 | 300 | 60 |

* refer to labelling system for suitable base plates

# Engraving materials for system labelling

## ☑ Duomatt/engraving mat

*Double-layer material*

**Composed of a coloured surface layer and a primarily black base.**

**Rear is coated with self-adhesive, pressure sensitive or a strongly adhesive film.**

**Suitable for engraving using ink or laser.**

## ☑ Triomatt

*Three-layered material*

**Similar to Duomatt, but with one coloured surface coat and two differently coloured bases.**

**Depending on the immersion depth of the graver, either the upper or lower based is revealed.**

**Suitable for engraving using ink or laser.**

## ☑ Alumatt

*Three-layered material*

**Two aluminium coats with an intermediary layer of melamine.**

**The dark melamine core is revealed during engraving to produce the script.**

## ☑ Aluminium

**Solid aluminium with a silver, black or other coloured anodic layer. For silver anodization the script must be inlaid after the engraving; that extra step is not necessary for other colours.**

# From Alumatt to double-layered material: Everything you need to know about engraving.

Engraving represents one of the most durable yet economic labelling methods.

Engraved labels last an extremely long time, are resistant to environment influences and mechanical stress. The combination of engraving and suitable media can produce long-lasting labels even in the harshest of industrial environments.

There are a variety of fastening possibilities. These range from a simple press-on action using a self-adhesive side to fastening with cable ties or a label holder system to be screwed or riveted down.

Please visit our internet site for a convenient overview of the broad spectrum of engraving material from Murrplastik and quick search options for your labelling needs. It's quick and easy to find the right solution based on the materials, dimensions, shape, colour and fastening type. Please visit

## www.murrplastik.de/acs/dm

## ☑ Variety of shapes

*Standard shapes:*
**Prepunched/milled plates for use on the mat, square and round in many shapes**

*Universal:*
**Plastic and aluminium plates (300 x 200 mm) for general use**

## ☑ Variety of options

*Cornered model:*
**Square-edged or with radius**

*Bore holes:*
**in any count desired for screws or rivets**

*Adhesive model:*
**- without adhesive (HF)**
**- self-adhesive (SK)**
**- self-adhesive**
  **for rough surfaces (SSK)**

# Software

**One software package to label everything: ACS-Gold Studio**

# Simple to use - quick results

Labels provide smooth man/machine communication in industrial environments - increasing security and fostering faith in technical workflows.

The **ACS-Gold Studio** labelling software provides users with all of the colours, numbers, symbols and plain text one might need:

It's the quick and uncomplicated way to create meaningful labels in-house. The integrated system database makes that process much easier. It provides standardised symbols for electric, mechanical, hydraulic and pneumatic applications. An editor function can be used to adapt symbols from the database into custom ones.

### Intelligent user support

An integrated CAD interface module connects the application with the E-CAE or other planning system. That ensures quick and mistake-free transfer of data containing function texts, wiring diagrams, terminal block or operating resource lists and machine schedules.

A freely programmable CAD interface generator allows the user to customise individual interfaces to the application programs. Intelligent utilities are provided to allow data to be freely assigned to the required labelling materials. Text and colour attributes can be tailored at the click of the mouse.

**ACS-Gold Studio** software supports all Windows-compatible output devices.

### System requirements:
• WIN 2000
• WIN XP/XP PRO
• WIN VISTA 32 Bit

### Hardware requirements:
• Minimum hardware requirements for the respective OS

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## New functions in the ACS-Gold Studio software

### New start screen for ACS software

The new navigation function launches when the CD is inserted, allowing for quick access to all important data, both on the CD and on our home page, including documentation, updated parameters, downloads, etc.

### Output without header possible

If for some reason you do not need the project information for your file (project name, group, master numbering), these can be hidden on a project-by-project basis which also cuts down the production time.
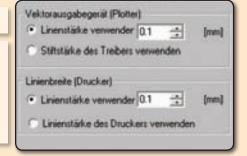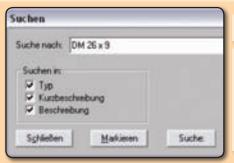
### Several sheet label frames possible

The required data for processing through several sheet label frames can be entered into the plotter. That allows for two or more Duomatt or label sheets to be inscribed in one pass.

### Line weights freely definable

Select your own line thickness for outputting symbols, regardless of whether on the plotter or printer, or used the default values in the driver.

### Search parameter editor

Search for a specific parameter:
searches are possible in the database fields "Type", "Short description" and "Text", and can be future restricted or expanded.
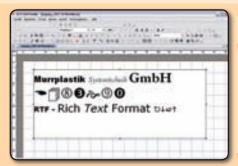
## Unicode

Processing and output of symbols from around the world, including Chinese, Japanese, Cyrillic, Greek, Indian, etc. Available for WIN 2000 and newer. The international language support function must be activated in the control panel.

## SPS Function

Freely definable matrix. It is possible to make a targeted assignment of texts and data records onto individual matrix fields within the project. Variable and convenient printing of insertion strips for SPS modules, including S7 Siemens, XC Moeller etc.
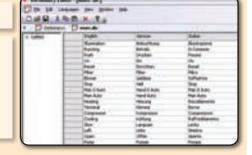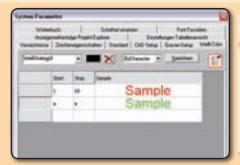
## RTF (Rich Text Format)

Free formatting and processing of all RTF symbols with all available attributes, e.g. font, size, colour, weight etc within a data record.

## Dictionary

Freely definable dictionary with as many languages as desired for automated translation of projects, including for Unicode symbols. Single or multilingual versions possible for each record.

## IntelliColor

Flexible output control of projects defined through a 'colour strategy'. Assignment is handled through the available RGB colours, allowing for values, items and symbols to be assigned.

## ACS Gold Studio Software

From the planning stage to the inscription on the label...
Plotting, printing, engraving and lasing with one software package!
The universal workstation at local or network level.
Electric, mechanical, pneumatic or hydraulic labelling tailored to requirements.
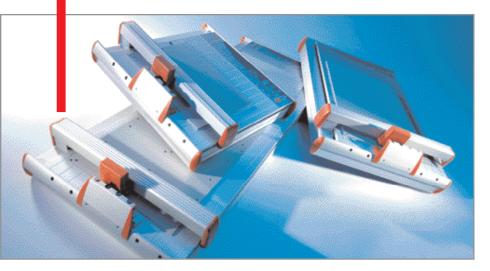
- Software for company-wide labelling.

- ACS Gold Studio software combines the labelling technologies of plotting, printing, engraving and lasing in one interface.

- The software supports actuation of all Windows-compatible output devices.

- One central labelling workstation keeps procurement, training and maintenance costs to a minimum.

- The Unicode application can handle all Windows character sets.

- Data import for all characters: Any character set can be incorporated on-site by activating the language support function.

| Type | Order no. | Pack qty. |
|---|---|---|
| **Single-user licence** | 86601060 | 1 |
| Upgrade licence | 86601061 | 1 |
| | | |
| **Scope of delivery:** | | |
| Software and manual on CD-ROM | | |
| | | |
| for WIN 2000; XP; Vista 32bit | | |
| | | |
| | | |
| Network licences on request | | |
| | | |
| Demo software available on request or | | |
| for download at http://www.murrplastik.de | | |
| | | |
| | | |
| ACS Services | 86901010 | 1 |
| Installation and instruction | 86901012 | 1 |

# Labelling systems
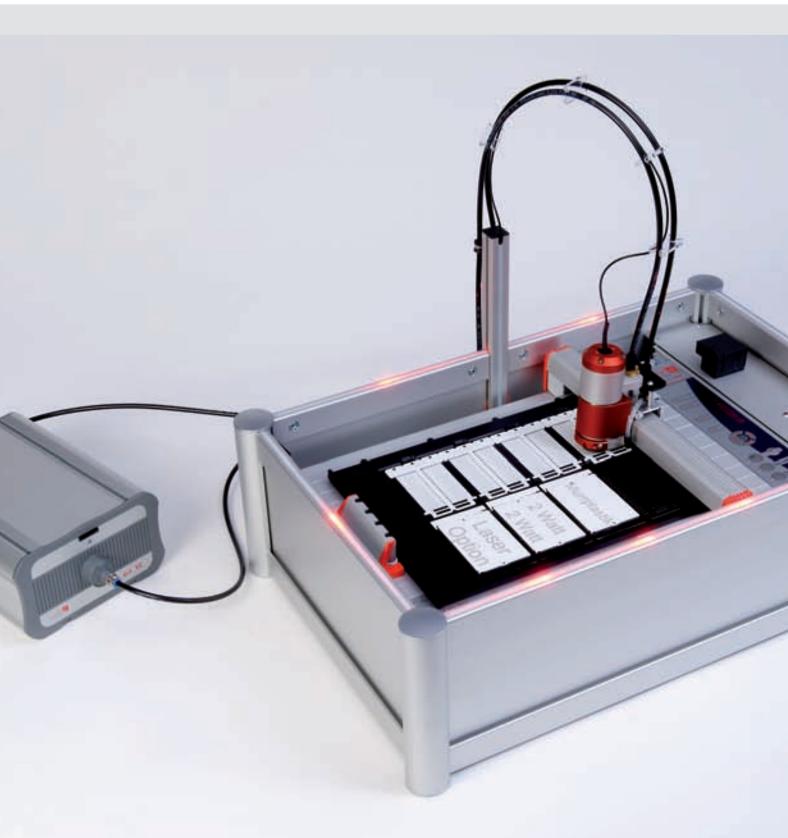
# Overview

## Plotter systems

### MVPS-G3-T

The universally proven all-rounder based on plotter technology. Designed specifically for mobile use. Can hold up to 4 base plates. **Page 175**

### MVPS-G3

The universally proven all-rounder based on plotter technology. Designed specifically for stationary use. 10 base plate capacity. **Page 176**

### MVPS-G3-XXL

The universally proven all-rounder based on plotter technology. Holds up to 20 base plates. Designed for high-volume labelling requirements. **Page 177**

### Porty

The portable solution for service and installation employees for on-site labelling.

**Page 184**

### Engraving option for MVPS-G3

Engraving with the plotter: Labels for all environmental conditions. Plastic and aluminium labels. **Page 178**

### Laser option for MVPS-G3

Top quality and durability for plotter-based labelling. Laser inscription using colour changes in the material. **Page 179**

### Accessories for plotter systems

Base plates, ink, cleaning fluids and cleaning devices for refillable pens as well as complete cleaning sets. **Page 180**

## Thermal lamination system

### ST-Mark Thermo laminating system

The semi-automated labelling system for high-volume labelling needs. Up to 8,200 labels per hour (with label type KS 4/18). **Page 185**
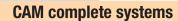
### Accessories for thermal lamination systems

Ribbon set consisting of thermal transfer and thermal lamination roll. Length: 200 m.

**Page 186**

## CAM complete systems

### CAM complete systems

Engraving and milling system for professional use. Processing of all materials suitable for engraving.
**Page 188**

### Accessories for CAM complete systems

Professional tools for working with all materials suitable for engraving.

**Page 189**

## Which labelling system for which application?

**LABELLING TYPE/Deployment environment**

see tuck-in flap

see tuck-in flap

see tuck-in flap

see tuck-in flap

see tuck-in flap

see tuck-in flap

see tuck-in flap

**OUTPUT SYSTEM**

### Porty P300

The transportable unit for installation crews or small companies. Includes rechargeable battery for work with or without access to mains. The internal software allows operation without our ACS labelling software.

### MVPS-G3 plotter family

The all-round system for any labelling needs. Available in three sizes. Adaptors available to allow the processing of all materials.

### Engraving option for MVPS-G3 plotter

The MVPS-G3 series plotter can be simply and easily converted into a quality engraving machine: simply replace the pen unit with a spindle unit and attach the vacuum system, and vice-versa.

### Laser option for MVPS-G3 plotter

Existing plotter systems from the MVPS-G3 family can be equipped with an option for laser inscription: for labelling in durable, premium quality regardless of the location.

### ST Mark

The semi-automated labelling system for high-volume labelling needs. Up to 8,200 labels per hour (with label type KS 4/18ST).

### CAM complete systems

Mechanical engraving of the finest kind. Engraving and milling systems for pro use with single and multiple layer materials.

### Office printer
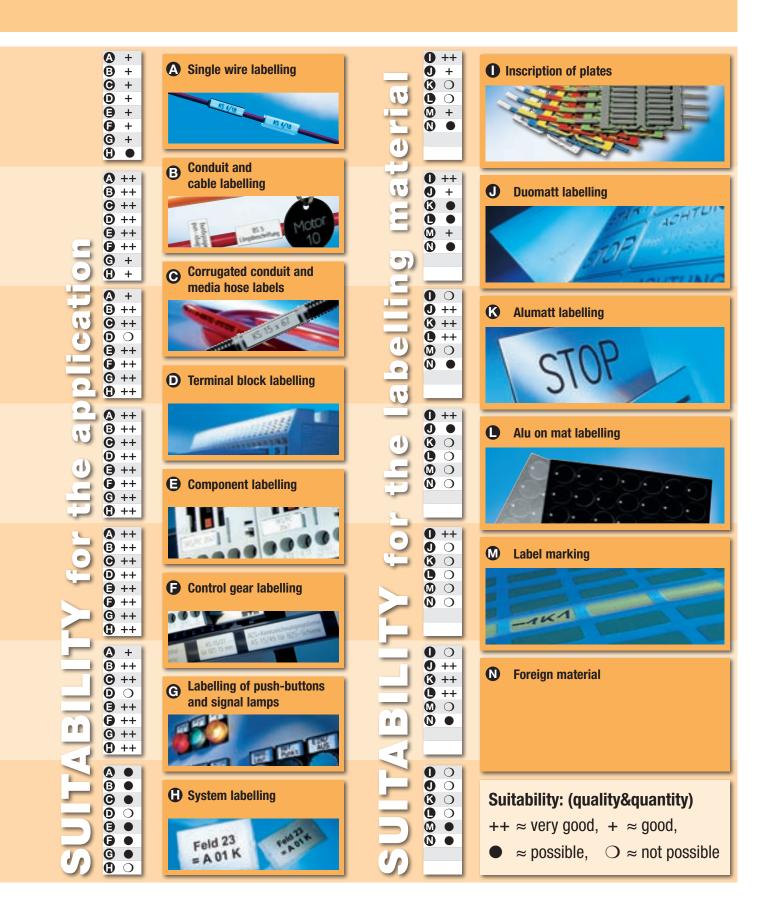
Dot matrix, inkjet or laser printer, it doesn't matter:
we offer labelling materials for your equipment. Existing office printers of all types are integrated into the ACS labelling system.

# SUITABILITY for the application

**A** Single wire labelling

| | |
|---|---|
| A | + |
| B | + |
| C | + |
| D | + |
| E | + |
| F | + |
| G | + |
| H | ● |

**B** Conduit and cable labelling

| | |
|---|---|
| A | ++ |
| B | ++ |
| C | ++ |
| D | ++ |
| E | ++ |
| F | ++ |
| G | + |
| H | + |

**C** Corrugated conduit and media hose labels

| | |
|---|---|
| A | + |
| B | ++ |
| C | ++ |
| D | ○ |
| E | ++ |
| F | ++ |
| G | ++ |
| H | ++ |

**D** Terminal block labelling

| | |
|---|---|
| A | ++ |
| B | ++ |
| C | ++ |
| D | ++ |
| E | ++ |
| F | ++ |
| G | ++ |
| H | ++ |

**E** Component labelling

| | |
|---|---|
| A | ++ |
| B | ++ |
| C | ++ |
| D | ++ |
| E | ++ |
| F | ++ |
| G | ++ |
| H | ++ |

**F** Control gear labelling

| | |
|---|---|
| A | ++ |
| B | ++ |
| C | ++ |
| D | ++ |
| E | ++ |
| F | ++ |
| G | ++ |
| H | ++ |

**G** Labelling of push-buttons and signal lamps

| | |
|---|---|
| A | + |
| B | ++ |
| C | ++ |
| D | ○ |
| E | ++ |
| F | ++ |
| G | ++ |
| H | ++ |

**H** System labelling

| | |
|---|---|
| A | ● |
| B | ● |
| C | ● |
| D | ○ |
| E | ● |
| F | ● |
| G | ● |
| H | ○ |

# SUITABILITY for the labelling material

**I** Inscription of plates

| | |
|---|---|
| I | ++ |
| J | + |
| K | ○ |
| L | ○ |
| M | + |
| N | ● |

**J** Duomatt labelling

| | |
|---|---|
| I | ++ |
| J | + |
| K | ● |
| L | ● |
| M | + |
| N | ● |

**K** Alumatt labelling

| | |
|---|---|
| I | ○ |
| J | ++ |
| K | ++ |
| L | ++ |
| M | ○ |
| N | ● |

**L** Alu on mat labelling

| | |
|---|---|
| I | ++ |
| J | ● |
| K | ○ |
| L | ○ |
| M | ○ |
| N | ○ |

**M** Label marking

| | |
|---|---|
| I | ++ |
| J | ○ |
| K | ○ |
| L | ○ |
| M | ○ |
| N | ○ |

**N** Foreign material

| | |
|---|---|
| I | ○ |
| J | ++ |
| K | ++ |
| L | ++ |
| M | ○ |
| N | ● |

| | |
|---|---|
| I | ○ |
| J | ○ |
| K | ○ |
| L | ○ |
| M | ● |
| N | ● |

**Suitability: (quality&quantity)**

++ ≈ very good,  + ≈ good,

●  ≈ possible,   ○ ≈ not possible

## System description

The flatbed plotter from the Murrplastic MVPS-G3 family is the universal device for labelling of electronic, pneumatic, hydraulic and mechanical components as well as the labelling of systems of all kind.

The adapter plate allows it to hold base plates for inscription or engraving of all types of Murrplastic plates as well as plastic and aluminium engraving materials and sheet labels.

**BENEFITS**

- On-site labelling
- Lightweight and easy to transport
- Large range of labelling materials: Labels, Duomatt, Alumatt, sheet labels
- Outstanding inscription quality
- Short set-up times for various materials
- Easy handling

### MVPS-G3-T
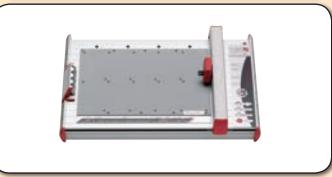
#### Additional benefits

- Special for mobile use by service and installation workers.
- In aluminium case with integrated transport rollers
- Suitable for airplanes

#### Brief technical specifications

Capacity:        Max. 480 label plates
Dimensions:    430x440x125 mm (LxWxH)
Weight: approx. 13.4 kg incl. trolley and case

### MVPS-G3

#### Additional benefits
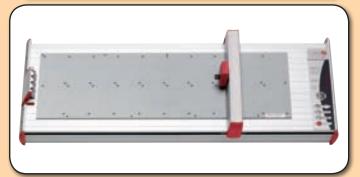
- High configuration capacity
- Suitable for nearly all materials
- For mobile and stationary use

#### Brief technical specifications

Capacity:        Max. 1200 label plates
Dimensions:    660x440x125 mm (LxWxH)
Weight:           Approx. 8 kg

### MVPS-G3-XXL

#### Advantages

- Takes 20 base plates
- Very high configuration capacity
- For high-volume labelling needs

#### Brief technical specifications

Capacity: Max.  2400 plates
Dimensions:     1082x440x125 mm (LxWxH)
Weight:           Approx. 14 kg

# Engraving option

**+** **=**

The MVPS-G3 series plotter can be simply and easily converted into a quality engraving machine complete with vacuum suction unit. Conversion is very straightforward: The spindle unit is affixed on the plotter in place of the pen unit and connected to the vacuum cleaner and a control unit for the spindle.
Every plotter now has multiple talents! That saves time and money.

## Engraving option for the MVPS-G3 plotter series

- Fits all plotters in the MVPS-G3 series
- Simple conversion
- No driver/software installation required. Same user-friendly ACS software for all output devices
- Extensive selection of engraving materials:
  single, double or triple layered material in plastic and aluminium

# Laser option

**+** **=**

Existing plotter systems can be fitted onsite with a laser option within a few days. For the ultimate in durability and quality with laser labelling:
Carbonisation is used to ensure a long service life for the coloured sleeve in the label material.

## Laser option for MVPS-G3 and MVPS-G3 XXL plotters

- Easy use in any conditions
- Laser class 1 based on
  DIN E 60825-1
- Pulsed ytterbium solid state laser with 2 watt optical fibres and optics unit
- Compact, robust design

- Easy assembly
- Highly flexible inscription through pictograms, special characters, logos, single lines and True Type
- Area or line inscription
- Standard ACS Software
- Minimal consumables costs

## System description

### Porty P300

### Advantages

- Can run off the line
- Own integrated software –
  No PC or laptop needed for use
- Fully compatible with ACS labelling software
- RS-232 interface
- Cost-effective
- Perfect for on-site service and installation
- 3 hours of accumulator life with continuous operation
- Easy handling

### ST-Mark Thermo laminating system

### Advantages

- Can operate in automatic mode
- Quick: writes approx. 8,200 labels per hour
  (with label type KS 4/18ST)
- Long service life: One unit of consumables allows
  for up to 59,976 labels to be printed (with label
  type KS 4/18ST).
- Increased abrasion resistance through protective
  laminate layer
- Designed for rapid inscription of label mats
- User-friendly ACS Software

### CAM complete systems

### Advantages

- Optional device features can be adjusted for individual requirements
- Open housing technology
- High quality
- High gripping capacity
- Ball screw drive
- Optimum recurring precision
- Highly maintenance-friendly

## Fields of application

The mobile labelling system for on-site use. Can be used away from power mains or PC. Special for mobile use by service and installation workers.

The portable system for mobile or low-volume use. An accumulator allows creation of labels without need for power mains. The system comes delivered with a complete adaptor kit of base plates to accommodate virtually all ACS label plates.
The system is delivered in a user-friendly carrying case.
The Porty P300 can be controlled via the internal software or the ACS labelling software.

## Brief technical specifications

Capacity:          Max. 120 label plates
Dimensions:        230 x 440 x 65 mm
Weight: Approx.  7.5 kg incl. case

## Fields of application

For labelling tasks with high hourly throughput and good abrasion resistance.

Thermal lamination meets today's high demands in terms of product performance and abrasion resistance.
ST-Mark, the semi-automatic labelling system for high volume labelling, producing up to 8,200 labels per hour (with label type KS 4/18ST).
One unit of consumables allows for up to 59,976 labels to be printed (with label type KS 4/18ST).
The resolution of 305 dpi produces a sharp print, rich in contrast, with all Windows fonts, symbols and characters.

## Brief technical specifications

Capacity:          approx. 8,200 plates/h
Service life:      59,976 individual labels
                   per unit of consumables
Ports:             USB 2.0 / Ethernet RJ45
Dimensions:        530 x 290 x 270 mm
Weight: Approx.  22 kg



protective layer
printing surface
Labels

## Fields of application

Engraving and milling system for professional use. Processing of all materials suitable for engraving.

Complete engraving system for Duomatt, Alumatt, aluminium labelling materials and other materials suitable for engraving.
The Murrplastik complete systems comprise a 3-axis mechanism, accessories, and the control electronics for connection to your computer. The systems can be supplied in different sizes for virtually any conceivable field of application.

## Brief technical specifications

Operation range up to 750 x 850 mm
Dimensions and weight depend on individual model and features

### ◩ Duomatt/engraving mat

*Double-layer material*

**Composed of a coloured surface layer and a primarily black base.**

**Rear is coated with self-adhesive, pressure sensitive or a strongly adhesive film.**

**Suitable for engraving using ink or laser.**

### ◩ Triomatt

*Three-layered material*

**Similar to Duomatt, but with one coloured surface coat and two differently coloured bases.**

**Depending on the immersion depth of the graver, either the upper or lower based is revealed.**

**Suitable for engraving using ink or laser.**

### ◩ Alumatt

*Three-layered material*

**Two aluminium coats with an intermediary layer of melamine.**

**The dark melamine core is revealed during engraving to produce the script.**

### ◩ Aluminium

**Solid aluminium with a silver, black or other coloured anodic layer. For silver anodization the script must be inlaid after the engraving; that extra step is not necessary for other colours.**

# Engraving materials and engraving tool: Two sides of the same coin

For best engraving results and the longest possible service lives for engraving tools, it is crucial to use the proper combination of materials and tools.

The explanations on the following pages should make it easier for you to select the proper tool for your application.

The Murrplastik engraving tool range contains an extensive selection of gravers and cutters, available individually and in sets designed to meet practical needs. We also offer additives like coolants, lubricants and dyes.

Everything you need for a safe, problem-free process and clean, reproducible results.



## Why hard metal tools...

Given its outstanding characteristics, hard metal tools are vastly superior to those made of high speed steel (HSS). For this reason we produce our engraving tools only from hard metals.

Hard metal is a man-made product consisting primarily of the tungsten carbide and additional finely ground powders. This mix is put under extreme pressure and sintered at high temperatures into a solid. For this reason hard metals are not comparable to ferrous tools like steel.

The extreme hardness and extremely fine particle sizes ensure both long service lives and clean cutting edges, yet the material is also more brittle and fragile than steel. In that regard hard metal is more comparable with ceramic.

## Tool selection

Always select a cutter optimally suited for your material. Choose as short of a cutter as possible and clamp it as wide as possible. When cutting critical materials such as Plexiglas, cutters with polished chip cavities have proven effective (very little setting of chips)

## Engraving tools - Selection criteria

### Cooling and lubrication

The tool should be cooled as much as possible during cooling. This is ideally handled using a lubricating emulsion or – if nothing else is available – with compressed air.

Lubrication also improves the surface quality and lengthens the service life of the tool. Aluminium and non-ferrous metals can be lubricated with special emulsions, while suds provide a significantly better surface for Plexiglas

If not cooling is possible, then the RPM and infeed values should be selected that are not too low (heat removal through the chips).

### Why is it good for the cutter to have as few cutting edges as possible...

The primary problem during (slot) cutting is the caking of chips and hence the clogging of the cutter.
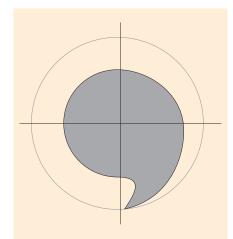
Once the cutter is clogged, it cannot draw out any more chips. The feed force from the rotary cutter is applied, breaking the cutter. This usually occurs – depending on the material – long before the blades wear down.

The question which must be resolved above all else is: "What to do with the chips?" The answer is usually: "Upwards or behind." That requires space (chip cavity) to move the chips past the cutter's 'meat'. A comparison of cross-cuts of various types clearly shows that the single-fluted cutter offers the most open space (= size of the chip cavity) and that these shrink in size as more blades are introduced.

The fewer the cutting edges on a cutter (and the sharper they are), the easier it is to immerse into the surface of the material.

For materials typically used in commercial technology like plastics (PVC, Plexiglas, Kömacel, etc), woods (chipboard) and non-ferrous materials (soft aluminium, Alucobond, etc) a single-fluted cutter is generally better, since the problem of cutter erosion is usually less serious than that of clogging.



*Cross-section of a single-fluted cutter:*
the single-fluted cutter has a large open surface.

### Why is it good for the cutter to have as many cutting edges as possible...

The cutting edge is the wear part on a cutter. It grows duller with each use, with cutting results suffering and more heat produced due to the increased abrasion. This in turn delays the chip disposal, leading to greater chances of melting and 'caking' in the cutter shank. This raises the danger that the infeed on the engraving machine will break off the graver.
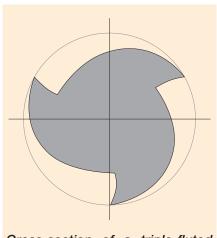
The more blades a cutter has, the greater the service life for the tool. A cutter with several blades also runs 'better' than one with just one blade. The large cross-cut surfaces taken off by the hard metal of the multiple-blade cutter disposes of more heat in the direction of the collet chuck than a single-fluted cutter. This is particularly important in situations where there is no other cooling option.

The more blades available, the small the individual cutting chips tend to be, and the smoother targeted surface.

A double-fluted cutter is particularly well suited for processing of very hard plastics and harder aluminium types (short chipping).

We only recommend triple fluted cutters for very hard non-ferrous metals (very hard aluminium alloys, brass,..) as well as for ferrous materials.



*Cross-section of a triple-fluted cutter:*
The three blades require a lot of room.

## Graver and cutter – Usage tips and warnings

### Graver

- Ideal for engraving
- For many materials

### Milling cutter

- Special cutter for acrylic glass engraving
- For many materials

### Double-fluted cutter

- With fishtail cut
- for milling non-ferrous metals and plastics

### Rub-out cutter

- Engraving and milling of non-ferrous metals
- Suitable for hard plastics

### Isolation engraver

- Especially for engraving of fine, single-line scripts
- Suitable for aluminium and anodised aluminium
- For hard materials (e.g. stainless steel and titanium)

## Cutting speed and infeed

The higher the cutting speed ($vc = \pi \cdot d\_S \cdot n$), the smoother the surface becomes. At the same time, greater cutting speeds increases the wear on the cutter as well.

Recommended cutting speeds vc for hard metal cutters:
- Aluminium long chipping: 100-300 m/min
  short chipping: 100-200 m/min (without cooling more like 100 m/min)
- other non-ferrous metals (brass, bronze, copper, zinc, red bronze): 100-200 m/min
- Thermoplastics with filler materials: 100-150 m/min
- Thermosets with filler materials: 100-300 m/min
- GRP: 100-150 m/min; carbon fibre laminate: 150-300 m/min

Recommended infeed fz per tooth (cutting edge) and rotation for hard metal cutter:
- Aluminium/non-ferrous metals:   d\_S 2-4 mm:   0.04 mm/U
    d\_S 5-8 mm:   0.05 mm/U
    d\_S 9-12 mm: 0.10 mm/U
- Thermoplastics:   d\_S 2-4 mm:   0.05 mm/U
    d\_S 5-8 mm:   0.06 mm/U
    d\_S 9-12 mm: 0.07 mm/U
- Thermosets:   d\_S 2-4 mm:   0.04 mm/U
    d\_S 5-8 mm:   0.08 mm/U
    d\_S 9-12 mm: 0.10 mm/U

Formulas:
- RPM: $n\,[U/min] = (vc\,[m/min] \cdot 1000)/(\pi \cdot d\_S\,[mm])$
  (for conical tools experience has shown that 1/3 RPM works for engraving)
- Infeed: $f\,[mm/min] = n \cdot fz \cdot z$

Example:
You want to use a double-fluted cutter (d\_D=3,0 mm) to cut short chip aluminium.
Using the data above, you can calculate: max. vc = 200 m/min.
That produces the following RPM and infeed values:
- RPM: $n = (200 \cdot 1000)/(3.14 \cdot 3) = 200{,}000/9.42 = 21{,}230\ U/min$
- Infeed: $f = 21{,}230 \cdot 0.04 \cdot 2 = 1.698\ mm/min = 28.3\ mm/s$

Key:
vc = cutting speed in m/min     d\_S = cutting edge diameter in mm
f = infeed in mm/min (mm/s)     fz = infeed per tooth
n = RPM in U/min     z = number of cutting edges

## RPM and infeed recommendations

| Engraving material | Graver Ø in mm | Point angle | Depth of immersion (approx.) in mm | RPM U/min. | Infeed X/Y in mm/s CAM | Infeed X/Y in mm/s MVPSG3 | Infeed Z in mm/s CAM | Infeed Z in mm/s MVPSG3 |
|---|---|---|---|---|---|---|---|---|
| DM Duomatt SI | 0,2/0,3 | 15° | 0.4 | 27,000 | 50 | 1 | 30 | 1.8 |
| DM Duomatt colour | All | All | 0.2 | 27,000 | 50 | 1 | 30 | 1.8 |
| DM Duomatt SSI | All | All | 0.1 | 27,000 | 50 | 1 | 30 | 1.8 |
| ALM triple layer mat. | 0.3/0.4 | 36° | 0.3 | 45,000 | 8 | 1 | 3 | 0.2 |
| ALU anodised | from 0.2 | 36° | 0.05 | 45,000 | 10 | 1 | 2 | 0.2 |

# MVPS-G3-T plotter system

**Fully functional and portable!**
Are mobility and quality in labelling important to you? The new MVPS-G3-T plotter has been specially designed for labelling on the go. The transport case, with its integrated rollers, helps you bring the MVPS-G3-T to any location, while providing optimal protection during transport. Simply remove the case, connect to the power supply, hook up the plotter to the laptop, and you're ready to begin. The MVPS-G3-T is a fully functional labelling system. Three different labelling materials (label plates, sheet labels, Duomatt) can be inscribed with top quality results.

The proven ACS software and the comprehensive plotter accessories for the MVPS-G3 can also be used for this mobile unit.

The MVPS-G3-T makes a professional impression with its mobility, stability and high inscription quality.

Advantages at a glance:
• On-site labelling
• Integrated transport rollers
• Suitable for airplanes
• Pen stations ensures pens are ready to write – prevents pens from drying out
• 3 labelling materials:
  label plates, sheet labels,
  Duomatt
• Part plotting
  of materials possible
• Top-quality typeface
  from the first to the last label

| Type | Order no. | Pack qty. |
|------|-----------|-----------|
| MVPS-G3-T | 86622016 | 1 |

**Technical data**

Plotter type: Flatbed plotter

Plotting area: max. 295 mm x 210 mm

Plotting speed: max. 40 cm/s

Pen station: max. 4 pens with double sealing

Ports: Parallel (Centronics), USB Level 1.1

Size: 430x440x125 mm

Total: approx. 13.4 kg incl. trolley and case

Power supply: Input voltage: 100–240 V AC 50–60 Hz

Power supply: Input current: 0.3 A max. at 220 V~

Drive: Two-phase stepping motor

**Scope of delivery**

USB data cable

Power supply including plug adapter (Europe/USA/UK)

Device manual

For the inscription of ACS label plates, sheet labels and engraving materials the corresponding base plates/retaining plates are required.

## MVPS-G3 plotter system

The all-rounder among labelling systems
The MVPS-G3 is a new labelling system for the rapid, safe and high-quality marking of all electric, pneumatic or mechanical components. The ACS software can be relied upon to transmit the data accurately in all kinds of systems. The MVPS-G3 plotter was developed in response to customer requirements. As such, it combines the following capabilities designed to make operations significantly easier.

Advantages at a glance:
- Top-quality typeface
  from the first to the last label
- Pen stations ensures pens are ready to write – prevents pens from drying out
- High configuration capacity
  up to 1200 labels
- For mobile and stationary use
- Short set-up times
  for various materials
- Part plotting
  of materials possible

| Type | Order no. | Pack qty. |
|------|-----------|-----------|
| MVPS-G3 | 86622010 | 1 |

**Technical data**
Plotter type: Flatbed plotter
Plotting area: max. 450 mm x 300 mm
Plotting speed: max. 40 cm/s
Pen station: max. 4 pens with double sealing
Ports: Parallel (Centronics), USB Level 1.1
Size: 660x440x125 mm
Weight: Approx. 8 kg
Power supply: Input voltage: 100–240 VAC 50–60 Hz
Power supply: Input current: 0.3 A max. at 220 V~
Drive: Two-phase stepping motor

**Scope of delivery**
USB data cable
Power supply including plug adapter (Europe/USA/UK)
Device manual

For the inscription of ACS label plates, sheet labels and engraving materials
the corresponding base plates/distance plates are required.
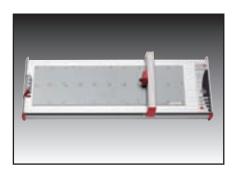
## MVPS-G3-XXL plotter system

Quantity AND quality

Are quantity and quality in labelling important to you? The new MVPS-G3 XXL plotter has been specially designed for labelling "Everything at once." The extremely long bed can hold 20 base plates at a time for labelling. The MVPS-G3-XXL is a fully functional labelling system. Three different labelling materials (label plates, sheet labels, Duomatt) can be inscribed with top quality results. The proven ACS software and the comprehensive plotter accessories for the MVPS-G3 can also be used for this long unit.

The MVPS-G3-XXL makes a professional impression with its quantity, stability and high inscription quality.

Advantages at a glance:
- Takes 20 base plates
- Top-quality
  typeface from the first to the last label
- Pen stations ensures pens are ready to write – prevents pens from drying out
- High configuration capacity
  up to 2400 labels
- On-site labelling
- Short set-up times
  for various materials
- Part plotting
  of materials possible

| Type | Order no. | Pack qty. |
|------|-----------|-----------|
| MVPS-G3-XXL | 86622018 | 1 |

**Technical data**

Plotter type: Flatbed plotter
Plotting area: max. 800 mm x 300 mm
Plotting speed: max. 40 cm/s
Pen station: max. 4 pens with double sealing
Ports: Parallel (Centronics), USB Level 1.1
Size: 1082x440x125 mm
Total: Approx. 14 kg
Power supply: Input voltage: 100–240 V AC 50–60 Hz
Power supply: Input current: 0.3 A max. at 220 V~
Drive: Two-phase stepping motor

**Scope of delivery**

USB data cable
Power supply including plug adapter (Europe/USA/UK)
Device manual

For the inscription of ACS label plates, sheet labels and engraving materials
the corresponding base plates/retaining plates are required.

## Engraving option for MVPS-G3

The MVPS-G3 series plotter can be simply and easily converted into a quality engraving machine complete with vacuum suction unit. Conversion is very straightforward: The spindle unit is affixed on the plotter in place of the pin unit and connected to the vacuum cleaner and a control unit for the spindle.
Every plotter now has multiple talents!

That saves time and money.
- Fits all plotters
  in the MVPS-G3 series
- Simple conversion
- No driver/software installation
  required.
- Same user-friendly ACS software for all
  output devices
- Extensive selection of engraving materials:
  single, double or triple layered material
  in plastic and aluminium





| Type | Order no. | Pack qty. |
|------|-----------|-----------|
| MVPS G3G Engraving set | 86622030 | 1 |

**Technical data**
RPM: 5000–50000
Frequency: 6 Ncm
Power consumption: 120 W
Clamp: Shaft diameter 3 mm

**Scope of delivery**
Fixing carriage inclusive of adjustment tool
Engraving spindle with pre-fitted graver 0.5 mm 15° degrees
Control unit G3 / VEC
Suction unit G3 / VC
Data cable: controller on the spindle; controller on the plotter;
Controller on the suction unit
Network cable
Suction conduit with plug adapter
Cable and conduit support
Adjustment help
Device manual

**Conditions**
ACS 2000 (release 0.53 or higher)
Plotter firmware unit  MVPS-G3 / -T /- XXL  version 05h or higher
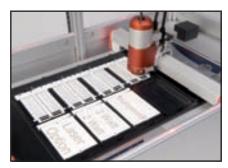
# Laser option for MVPS-G3

Existing plotter systems can be fitted on-site with a laser option within a few days. For the ultimate in durability and quality with laser labelling: Carbonisation is used to ensure a long service life for the coloured sleeve in the label material.

- Easy use in any conditions
- Laser class 1 based on DIN E 60825-1
- Pulsed ytterbium solid state laser with 2 watt optical fibres and optics unit
- Compact, robust design
- Easy assembly
- Highly flexible inscription through pictograms, special characters, logos, single lines and True Type
- Area or line inscription
- Standard ACS Software
- Minimal consumables costs



| Type | Order no. | Pack qty. |
|---|---|---|
| MVPS G3L Laser set | 86623010 | 1 |

**Technical data**
Laser type: 2 watt Ytterbium solid body laser
Wavelength: 1060-1080 Nm
Pulse duration: >25 ns
Pulse frequency: 10 kHz
Focus diameter: 0.01 mm
Laser protection class 1 conforming to DIN EN 608251
Interface: USB 1.1

**Scope of delivery**
Laser protection class 1 Housing with "Active" laser and Laser "ON" indicator
Integral "Laser ON" switch with key
Suction unit
Control and data cable
Device manual

**Conditions**
ACS 2000 (release 0.53 or higher)
Plotter firmware unit  MVPS-G3 / -T /- XXL  version 05h or higher

## Selection table combination options labels/base plates

| Label type | Base plates for labels | | | | | | | | | Base plates for Duomatt and sheet labels | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | GP1 | GP3 | GP4 | GP4E | GP5 | GRPD/10 | GRPD/18 | GPKND | GPME 5/10 | GPUA4 | GPUA3 | requires no base plate |
| ABB | | | X | | | | | | | | | |
| Alumatt | | | | | | | | | | X | X | |
| BS 4/5/6 | | | | | | | | | | | | X |
| Duomatt | | | | | | | | | | X | X | |
| EDG | | | | | | | | | | X | X | |
| ELW / ELG / ELPT | | | | | | | | | | X | X | |
| ES / ESL | | | | | | | | | | X | X | |
| KAB (4 Trees) | | | X | | | | | | | | | |
| KAB (5 Trees) | | | | | X | | | | | | | |
| KDE | | | X | | | | | | | | | |
| KES | | | X | | | | | | | | | |
| KET | | | | X | | | | | | | | |
| KLG | | | X | | | | | | | | | |
| KMO | | | X | | | | | | | | | |
| KMR | | | X | | | | | | | | | |
| KNDT | | | | | | | | X | | | | |
| KNDW | | | | | | | | X | | | | |
| KPF | | | X | | | | | | | | | |
| KPX | | | X | | | | | | | | | |
| KPX-ZS (4 Trees) | | | X | | | | | | | | | |
| KPX-ZS (5 Trees) | | | | | X | | | | | | | |
| KS (1 or 3 Trees) | | X | | | | | | | | | | |
| KS (2 Trees) | | X | | | | | | | | | | |
| KS (4 Trees) | | | X | | | | | | | | | |
| KS 5/10 | | | | | | | | | X | | | |
| KSA | | | X | | | | | | | | | |
| KSE x/10 | | | | | | X | | | | | | |
| KSE x/18 | | | | | | | X | | | | | |
| KSF | | | X | | | | | | | | | |
| KSI | | | | X | | | | | | | | |
| KSK | | | X | | | | | | | | | |
| KSL | | | X | | | | | | | | | |
| KSN A / B / C | | | | | | | | | | | | X |
| KSO | | | X | | | | | | | | | |
| KSO 70x9 | | | | | X | | | | | | | |
| KSS | | | X | | | | | | | | | |
| KSZ | X | | | | | | | | | | | |
| KTE | | | X | | | | | | | | | |
| KWI | | | X | | | | | | | | | |
| SKS | | | X | | | | | | | | | |
| TBT | | | | | | | | | | X | | |
| TK | X | | | | | | | | | | | |
| TS | X | | | | | | | | | | | |
| WGO (4 Trees) | | | X | | | | | | | | | |
| WGO (5 Trees) | | | | | X | | | | | | | |

# Basic plates for plotter systems

Retaining adapters for the various different labelling materials used on the plotter systems.
The adapters can be used selectively on all plotter systems (see selection table).

GP3

GP4

GPU A4

| Type | Order no. | Material | Pack qty. |
|------|-----------|----------|-----------|
| **Base plates for labels** | | | |
| GP1 | 86351210 | Aluminium | 1 |
| GP3 | 86351212 | Aluminium | 1 |
| GP4 | 86351214 | Aluminium | 1 |
| GP4E | 86351216 | Aluminium | 1 |
| GP5 | 86351218 | Aluminium | 1 |
| GRPD/10 | 86351016 | Plastic | 8 |
| GRPD/18 | 86351018 | Plastic | 8 |
| GPKND | 86351026 | Plastic | 8 |
| GPME 5/10 | 86351030 | Plastic | 8 |
| | | | |
| **Base plates for Duomatt and sheet labels** | | | |
| GPU A4 | 86621023 | Plastic | 1 |
| GPU A3 | 86621026 | Plastic | 1 |
| | | | |
| Further special base plates on request | | | |

## Special writing pens for plotter systems

**Refillable pen:** Available in different line thicknesses. The line thicknesses are indicated by the colour coding on the pens.
The pen can be filled with replaceable cartridges (1 ml) or with ink from a bottle (30 ml).

**Disposable pen:** Robust action. The pen is activated by assembling and locking the two parts together
(Pen tip and disposable ink cartridge)
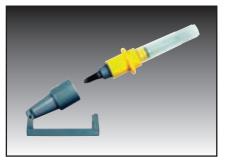
**Hand pen:** Hand pen (for etching ink) for field service.

**Sheet label pen:** Special ink pen for textile labels (e.g. EDG type).
The pen can be filled with replaceable cartridges (1 ml) or with ink from a bottle (30 ml).

**Please note:** All writing pens (excepting non-refillable ones) are delivered unfilled.
Writing ink (bottles/cartridges) must be ordered separately.

Refillable pen

Disposable pen

Hand pen

| Type | Order no. | Colour code | Line thickness mm | Pack qty. |
|---|---|---|---|---|
| **refillable pens** | | | | |
| Ink pen 0.25 | 86621454 | white | 0,25 | 1 |
| Ink pen 0.35 | 86621456 | yellow | 0,35 | 1 |
| Ink pen 0.50 | 86621458 | brown | 0,50 | 1 |
| Ink pen 0.70 | 86621460 | blue | 0,70 | 1 |
| Ink pen 1.00 | 86621462 | orange | 1,00 | 1 |
| | | | | |
| **Disposable pens** | | | | |
| Disposable ink pen 0.25 | 86621455 | white | 0,25 | 1 |
| Disposable ink pen 0.35 | 86621457 | yellow | 0,35 | 1 |
| | | | | |
| **Hand pens** | | | | |
| Hand pen 0.35 | 86621656 | yellow | 0,35 | 1 |
| | | | | |
| **Ink pen for textile labels** | | | | |
| Label pen 0.35 | 86621470 | purple | 0,35 | 1 |
| | | | | |
| **HP pens for Roland and Sekonik plotters only** | | | | |
| HP pen without point * | 86621420 | - | | 1 |
| Pen with point 0.25 * | 86621422 | - | 0,25 | 1 |
| Pen with point 0.35 * | 86621424 | - | 0,35 | 1 |

\* Discontinued model

# Ink, cleaner, cleaning unit

**Ink:** Etching ink for UV-resistant inscription on label plates.
The outstanding feature of the ink is its high resistance on various media.
**Cleaner:** The MU cleaner must be used to clean the ink pens.
**Pressure ball:** Only to be used for the pen after a refill or a prolonged period of disuse.
The pen is reactivated by negative pressure.
**Cleaning set:** Cleaning system designed for the ink pen system.



Ink



Cleaning fluid



Cleaning appliances

| Type | Order no. | Pack qty. |
| --- | --- | --- |
| **Ink for refillable pen** | | |
| Ink, type MU (5x1ml) | 86621232 | 1 |
| Ink, type MU (30 ml) | 86621230 | 1 |
| | | |
| **Cleaning fluid** | | |
| Pen cleaner (2 x 10 ml) | 86621236 | 1 |
| Cleaner for MU ink (30 ml) | 86621234 | 1 |
| | | |
| **Cleaning appliances** | | |
| Cleaning unit (container and cloth) | 86621238 | 1 |
| Pressure ball | 86351050 | 1 |
| | | |
| **Cleaning kit** | | |
| Cleaning set: | 86621240 | 1 |
| Comprising pen cleaner and cleaning unit | | |

## Porty P300 and accessories

Porty P300, the compact and convenient mounting system for on-site labelling!

The Porty P300 comes in an aluminium carrying case, making it ideally equipped for mobile use.

The P300 can be run on batteries and used independently of the mains at any time.

The state of charge is indicated visually by LEDs. When fully charged the unit can be continuously operated independently of the mains for three hours.

The integrated software guides the user quickly to the marked label plate.

Special inscriptions or external data can be transmitted to the Porty via the serial interface with the ACS labelling software.





| Type | Order no. | Pack qty. |
|---|---|---|
| Porty P300 E | 86621034 | 1 |
| Porty P300 E excl. accessories | 86621035 | 1 |
| | | |
| **Technical data:** | | |
| Operating area: 195 x 45 mm | | |
| Operating conditions: Temp. 15 ºC to 30 ºC, humidity max. 90 % | | |
| Dimensions: LxWxH = 230 x 400 x 65 mm (incl. rechargeable battery) | | |
| Weight incl rechargeable battery: 7.5 kg | | |
| | | |
| Power supply:  Input voltage 100-240 V AC 50-60 Hz | | |
| | | |
| Scope of delivery:  1 carrying case, 1 Porty P300; 1 rechargeable battery; 1 power supply; | | |
| 1 retaining adapter for MP labels | | |
| 1 retaining adapter universal; software cassette | | |
| | | |
| P300 rechargeable battery | 86621086 | 1 |
| Technical data: 14 NiCd cells | | |
| Rated voltage 16.8 volt | | |
| | | |
| MP base plate | 86621088 | 1 |
| serves to retain the standard labelling materials | | |
| | | |
| Basic plate, neutral | 86621090 | 1 |
| serves to retain the special labelling materials | | |
| | | |
| Software cassette | 86621092 | 1 |

# ST-Mark Thermo laminating system

Thermal lamination meets today's high demands in terms of product performance and abrasion resistance. ST-Mark, the semi-automatic labelling system for high volume labelling, produces up to 8,200 labels per hour (with label type KS 4/18).
This means that up to 56,600 individual labels can be printed with one box of consumables. The resolution of 305 dpi produces a sharp print, rich in contract, with all Windows fonts, symbols and characters.

- Can operate in automatic mode
- Increased abrasion resistance through protective laminate layer
- Designed for rapid inscription of label mats
- User-friendly ACS Software
- USB 2.0 and Ethernet RJ45 ports
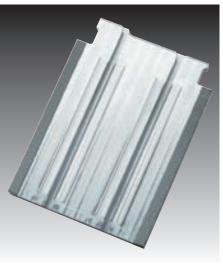


| Type | Order no. | Pack qty. |
|------|-----------|-----------|
| Thermal lamination system | 86661020 | 1 |

**Technical data**
Printing process: Thermal lamination:
Resolution: 305DPI
Power supply: 110–230 Volt AC 50–50 Hz
Ports: USB 2.0 / Ethernet RJ45
Dimensions: 530 x 290 x 270 mm
Weight: Approx. 22 kg

**Scope of delivery**
Printing system with thermal lamination labelling system
Feeder with automatic material feed unit
Ribbon set comprising colour and laminate roll
Base plate set (GP ST1; GP ST2; GP ST4; GP ST5)
Network cable
USB data cable
Device manual

**Requirements**
ACS Gold Studio or higher
Plotter firmware unit  MVPS-G3 / -T /- XXL  version 05h or higher

# Labelling systems

## Selection table combination options labels/base plates
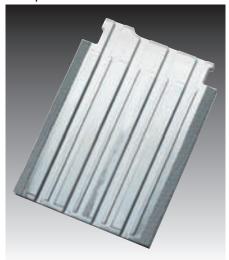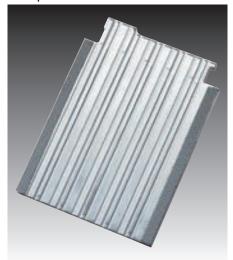
| Label type | Base plates for labels | | | | Base plates for Duomatt and sheet labels | Height adjustment plates |
| | GP1 ST | GP2 ST | GP4 ST | GP5 ST | GPDM ST | GP0 ST |
| --- | --- | --- | --- | --- | --- | --- |
| ABB | | | X | | | |
| BS 4/5/6 | | | | | | X |
| Duomatt ST- | | | | | X | |
| KAB (4 Trees) | | | X | | | |
| KAB (5 Trees) | | | | X | | |
| KDE | | | X | | | |
| KES | | | X | | | |
| KET | | | | | | |
| KLG | | | X | | | |
| KMO | | | X | | | |
| KMR | | | X | | | |
| KPF | | | X | | | |
| KPX | | | X | | | |
| KPX-ZS (4 Trees) | | | X | | | |
| KPX-ZS (5 Trees) | | | | X | | |
| KS (1 Trees) | X | | | | | |
| KS (2 Trees) | | X | | | | |
| KS (4 Trees) | | | X | | | |
| KSA | | | X | | | |
| KSF (4 Trees) | | | X | | | |
| KSI | | | X | | | |
| KSK | | | X | | | |
| KSL | | | X | | | |
| KSN A / B / C | | | | | | X |
| KSO | | | X | | | |
| KSO 70x9 | | | | X | | |
| KSS | | | X | | | |
| KTE | | | X | | | |
| KWI | | | X | | | |
| SKS | | | X | | | |
| WGO (4 Trees) | | | X | | | |
| WGO (5 Trees) | | | | X | | |

Base plate GP2 ST

Base plate GP4 ST

Base plate GP5 ST
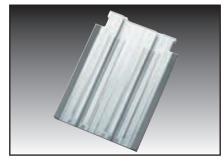
# Accessories for the ST-Mark Thermal lamination system

Retaining adapter for the different labelling materials on the ST-Mark labelling system.
You can find which label goes with which retaining adapter in the table of label/base plate combination options.
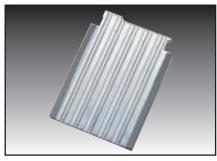
The ribbon set consists of a thermal transfer film and laminating film. The length of film is 180 metres.



Ribbon Set



GP2 ST



GP5 ST

| Type | Order no. | Pack qty. |
|---|---|---|
| Ribbon Set | 86661036 | 1 |
| | | |
| **Base plates** | | |
| GP ST1 | 86661024 | 1 |
| GP ST2 | 86661026 | 1 |
| GP ST4 | 86661022 | 1 |
| GP ST5 | 86661028 | 1 |

## CAM engraving machine

Complete engraving system for Duomatt, Alumatt, aluminium labelling materials and other materials suitable for engraving. The Murrplastik basic system consists of the 3-axis mechanism, accessories and the control devices for the connection to computer systems. The systems can be supplied in different sizes for virtually any conceivable field of application.

Scope of delivery for complete system:
- Basic system including control unit
- Complete set of cables connect axis with the controller and between controller and computer
- Spindle 170 E
- Vacuum table with chip vacuum pump
- Suction device (without vacuum cleaner)
- Cooling/spray device

CAM...

| Type | Order no. | Pack qty. |
|---|---|---|
| **CAM 100 complete system** | 86701020 | 1 |
| Positioning range X/Y 540x500 mm    Stroke 75 mm | | |
| Clamping surface 500x600 mm | | |
| | | |
| **CAM 200 complete system** | 86701022 | 1 |
| Positioning range X/Y 540x500 mm    Stroke 75 mm | | |
| Clamping surface 750x850 mm | | |

**Mechanics**
- surface-milled, face accuracy < 0.05 mm
- x/y/z in-feed free from backlash with stepping motor drive
- 3 ball screw drives 16x5 mm with flange bearings
- Rubber cover with Teflon coating
- Repeat accuracy +/- 1/100 mm
- 3 end and home position switches, accuracy < 1/100 mm
- Cable drag chains
- Set of cables for stepping motors and computer connection
- Maintenance-friendly design

**Electronics**
- 19" table housing
- 230 V power supply
- Connection to computer via serial interface
- Extended HPGL instruction set
- Triaxial interpolation
- Interpolation of circles and circle sectors
- Look-Ahead feature for continuous path
- Configurable acceleration characteristic
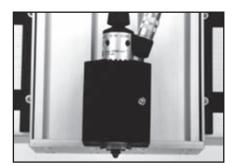
# CAM engraving system accessories

Murrplastik can also supply any of the engraving machine components as individual parts. As such, you can retrofit or upgrade existing systems according to your requirements.
Spindles/ suction device / cooling-/spraying appliances



Spindle SF 170 E



Suction appliance



Cooling/spraying appliance

| Type | Order no. | Pack qty. |
|---|---|---|
| Spindle SF 170 E | 86701212 | 1 |
| - High speeds, seamless regulation of speed range | | |
| - High speed stability, even under stress | | |
| - Very quiet | | |
| - High output utilisation combined with low weight | | |
| - Precision bearing | | |
| - Spindle monitoring and control via software | | |
| | | |
| **Technical data** | | |
| - Nominal output 170 W | | |
| - Max. 60,000 rpm | | |
| - Clamping range 1–4 mm | | |
| - Manual tool exchange with quick clamping feature | | |
| - Software-controlled frequency converter | | |
| | | |
| **Scope of delivery** | | |
| - SF spindle incl. motor cable | | |
| - SF converter module for CNC450 | | |
| - Spring chuck 3 mm | | |
| - Spindle holder with cooling fins | | |
| | | |
| Suction appliance (for all CAM models) | 86701810 | 1 |
| incl. mounting material and flexible suction tube (without vacuum cleaner) | | |
| | | |
| Cooling/spraying appliance (for all CAM models) | 86701812 | 1 |
| incl. mounting material, pressure and liquid tube | | |
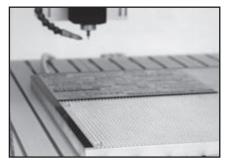
## CAM engraving system accessories

Clamping as if by magic.
We can supply a vacuum grid table matching the engraving machine model for the specific purpose of clamping our Duomatt, Alumatt and aluminium mats or for level work pieces.
If there is no compressed air supply at the site of installation it will be necessary to order an electric vacuum pump instead of the standard chip vacuum pump.



Vacuum table
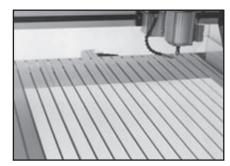
| Type | Order no. | Pack qty. |
|---|---|---|
| CAM 100 vacuum table | 86701610 | 1 |
| **Technical data** | | |
| - Size approx. 355x290 mm | | |
| - Grid spacing 3 mm | | |
| **Scope of delivery** | | |
| - Aluminium vacuum grid plate | | |
| - Chip vacuum pump incl. accessories | | |
| - Sealing cord | | |
| CAM 200 vacuum table | 86701612 | 1 |
| **Technical data** | | |
| - Size approx. 540x485 mm | | |
| - Grid spacing 3 mm | | |
| **Scope of delivery** | | |
| - Aluminium vacuum grid plate | | |
| - Chip vacuum pump incl. accessories | | |
| - Sealing cord | | |
| **Electric vacuum pump instead of chip vacuum pump (surcharge)** | | |
| | 86901614 | 1 |
| Replacement sealing cord | 86721018 | 1 |

# CAM engraving system accessories

There are various extras available to stabilise the engraving machine or lower the noise level.



Polystyrene base



Subframe

| Type | Order no. | Pack qty. |
|------|-----------|-----------|
| CAM 100 polystyrene base | 86721014 | 1 |
| - Polystyrene strip | | |
| | | |
| CAM 200 polystyrene base | 86721016 | 1 |
| - Polystyrene strip | | |
| | | |
| T-slot set | 86721212 | 1 |
| - 3 different tensioning elements for direct clamping of work pieces over the CAM system T-slots | | |
| | | |
| **Scope of delivery** | | |
| - 4 clamps | | |
| - 2 manual vices | | |
| - 6 stop rails of different lengths (75, 175, and 250 mm) | | |
| | | |
| CAM 100 subframe | 86701410 | 1 |
| CAM 200 subframe | 86701412 | 1 |
| | | |
| **Scope of delivery** | | |
| - Aluminium profiles, angles and stands | | |
| | | |
| CAM 200 cover | 86701414 | 1 |
| | | |
| **Scope of delivery** | | |
| - Aluminium profiles with connectors, tinted Plexiglas, cable entry at rear | | |

## Graver for engraving systems

Gravers are conical tools (halved solid metal round bar, ground smooth) with a cutting edge. In principle, the smaller the angle at the point, the more constant is the engraving width, even if the material to be engraved is not flat.
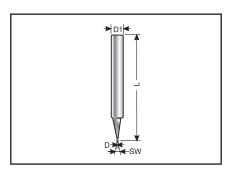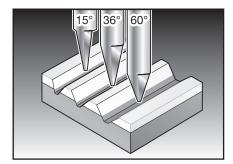
We would recommend our special 15° gravers when working with spindles without height scanning. The overall diameter gives the minimum engraving width. The deeper it presses into the material, the wider the engraving width. The ratio of plunge depth: engraving width is predominantly determined by the angle at the point.

The graver can be used in conjunction with the CAM engraving system and the engraving option.

- Ideal for engraving
- For many materials (plastic, aluminium,...)

| Type | Order no. | Colour stop ring | D mm | D1 mm | L mm | SW | Pack |
|---|---|---|---|---|---|---|---|
| Graver 15° d = 0.2 mm | 86721424 | white | 0.2 | 3.0 | 40.0 | 15° | 1 |
| Graver 15° d = 0.3 mm | 86721426 | white | 0.3 | 3.0 | 40.0 | 15° | 1 |
| Graver 15° d = 0.4 mm | 86721428 | white | 0.4 | 3.0 | 40.0 | 15° | 1 |
| Graver 15° d = 0.5 mm | 86721430 | white | 0.5 | 3.0 | 40.0 | 15° | 1 |
| Graver 15° d = 0.7 mm | 86721432 | white | 0.7 | 3.0 | 40.0 | 15° | 1 |
| | | | | | | | |
| Graver 36° d = 0.2 mm | 86721435 | white | 0.2 | 3.0 | 40.0 | 36° | 1 |
| Graver 36° d = 0.3 mm | 86721436 | white | 0.3 | 3.0 | 40.0 | 36° | 1 |
| Graver 36° d = 0.4 mm | 86721437 | white | 0.4 | 3.0 | 40.0 | 36° | 1 |
| Graver 36° d = 0.5 mm | 86721438 | white | 0.5 | 3.0 | 40.0 | 36° | 1 |
| Graver 36° d = 0.7 mm | 86721439 | white | 0.7 | 3.0 | 40.0 | 36° | 1 |
| Graver 36° d = 1.0 mm | 86721440 | white | 1.0 | 3.0 | 40.0 | 36° | 1 |
| | | | | | | | |
| Graver 60° d = 0.2 mm | 86721444 | white | 0.2 | 3.0 | 40.0 | 60° | 1 |
| Graver 60° d = 0.3 mm | 86721446 | white | 0.3 | 3.0 | 40.0 | 60° | 1 |
| Graver 60° d = 0.4 mm | 86721448 | white | 0.4 | 3.0 | 40.0 | 60° | 1 |
| Graver 60° d = 0.5 mm | 86721450 | white | 0.5 | 3.0 | 40.0 | 60° | 1 |
| Graver 60° d = 0.7 mm | 86721452 | white | 0.7 | 3.0 | 40.0 | 60° | 1 |
| Graver 60° d = 1.0 mm | 86721454 | white | 1.0 | 3.0 | 40.0 | 60° | 1 |

# Milling cutter for engraving systems

Milling cutters are conical tools with a cutting edge.
The additional spiral-shaped chip flute means that the filings can be removed easily so that the engraving can be cleared free of burrs and cleanly.
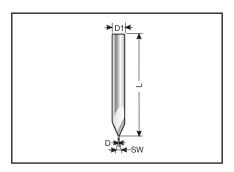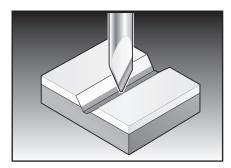
The milling cutter can be used in conjunction with the CAM engraving system and the engraving option.

This tool has proved itself to be a veritable all-rounder!

- Special cutter for acrylic glass engraving
- For many materials
  (plastics, aluminium, non-ferrous metals...)

| Type | Order no. | Colour stop ring | D mm | D1 mm | L mm | SW | Pack |
|------|-----------|------------------|------|-------|------|----|------|
| Milling cutter 60° d = 0.2 mm | 86721470 | white | 0.2 | 3.0 | 40.0 | 60° | 1 |
| Milling cutter 60° d = 0.5 mm | 86721472 | white | 0.5 | 3.0 | 40.0 | 60° | 1 |
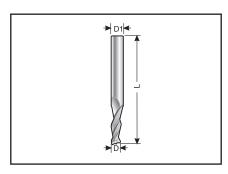
## Double-fluted cutter for engraving systems
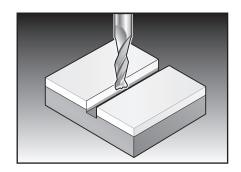
Double-fluted cutter, right-cutting with a fishtail cut, so that it can be pressed easily even into hard materials.

The double-fluted cutter can be used in conjunction with the CAM engraving system and the engraving option.

- Affordably priced universal double-fluted cutter
- For milling non-ferrous metals and plastics

| Type | Order no. | Colour stop ring | D mm | D1 mm | L mm | Pack |
|------|-----------|------------------|------|-------|------|------|
| Double-fluted cutter 1.0 mm | 86721418 | green | 1.0 | 3.0 | 40 | 1 |
| Double-fluted cutter 2.0 mm | 86721420 | green | 2.0 | 3.0 | 40 | 1 |
| Double-fluted cutter 2.4 mm | 86721421 | green | 2.4 | 3.0 | 40 | 1 |
| Double-fluted cutter 3.0 mm | 86721422 | green | 3.0 | 3.0 | 40 | 1 |
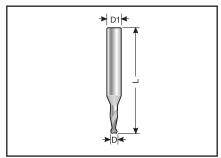
# Rub-out cutter for engraving systems
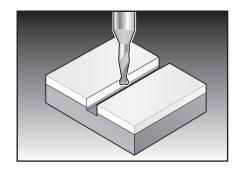
The shorter cutting edge of the rub-out cutter means that it has less danger of breaking than the double-fluted cutter with the fishtail cut. This means that it is ideal for use with diameters of up to 1 mm.

The rub-out cutter can be used in conjunction with the CAM engraving system.

- Engraving and milling of non-ferrous metals
- Suitable for hard plastics

| Type | Order no. | Colour stop ring | D mm | D1 mm | L mm | Pack |
|---|---|---|---|---|---|---|
| Rub-out cutter 0.5 mm | 86721414 | blue | 0.5 | 3.0 | 30.0 | 1 |
| Rub-out cutter 1.0 mm | 86721416 | blue | 1.0 | 3.0 | 30.0 | 1 |
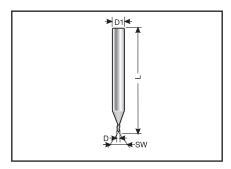
## Insulation engraver for engraving systems
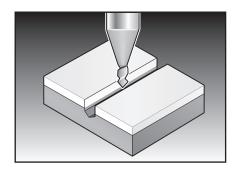
This classy graver is a specially-developed conical tool. The cutting geometry remains the manufacturer's "secret". The result is burr-free and clean cutting grooves, which can also be used for the manufacture of PCB-prototypes, hence the name INSULATION ENGRAVER. Its long service-life and durability, even at high feed velocities, makes it an ideal engraving tool for stainless steel and titanium alloys.

The insulation engraver can be used in conjunction with the CAM engraving system.

- Especially for engraving of fine, single-line scripts
- Suitable for aluminium and anodised aluminium
- For hard materials (such as stainless steel and titanium)
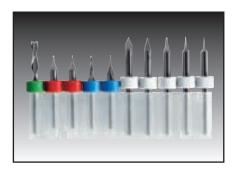
| Type | Order no. | Colour stop ring | D mm | D1 mm | L mm | Pack |
|------|-----------|------------------|------|-------|------|------|
| Isolation engraver | 86721412 | red | 0.0–0.6 | 3.0 | 30.0 | 1 |

# Tool and graver sets

We are pleased to offer you specially-designed sets containing different engraving tools.
These sets provide a cost-effective means of selecting the appropriate graver or cutter for your specific application.



| Type | Order no. | Pack |
|---|---|---|
| Tool set (10-part) only for CAM engraving systems | 86721410 | 1 |
| **consisting of:** | | |
| one each of graver 15° 0.2 mm; 0.4 mm; 0.7 mm | | |
| 1x graver 36° 0.4 mm | | |
| 1x graver 60° 0.2 mm | | |
| 1 x Rub-out cutter (0.5 mm / 1.0 mm) | | |
| 2x Insulation engravers | | |
| 1 x Double-fluted cutter 3.0 mm | | |
| Tool set (10-part) only for CAM engraving systems and engraving option | 86721460 | 1 |
| **consisting of:** | | |
| one each of graver 15° 0.2 mm; 0.3 mm; 0.4 mm; 0.5 mm; 0.7 mm | | |
| one each of graver 36° 0.3 mm; 0.5 mm; 1.0 mm | | |
| one each of graver 60° 0.3 mm; 0.5 mm | | |

## Coolant and degreasing agent for engraving systems

The use of a coolant and degreasing agent when engraving aluminium provides you with better results and extends the service life of the tool.



| Type | Order no. | Pack |
|------|-----------|------|
| Lubricant ALU-N 1000 ml | 86621262 | 1 |

# Dyes for engraving systems
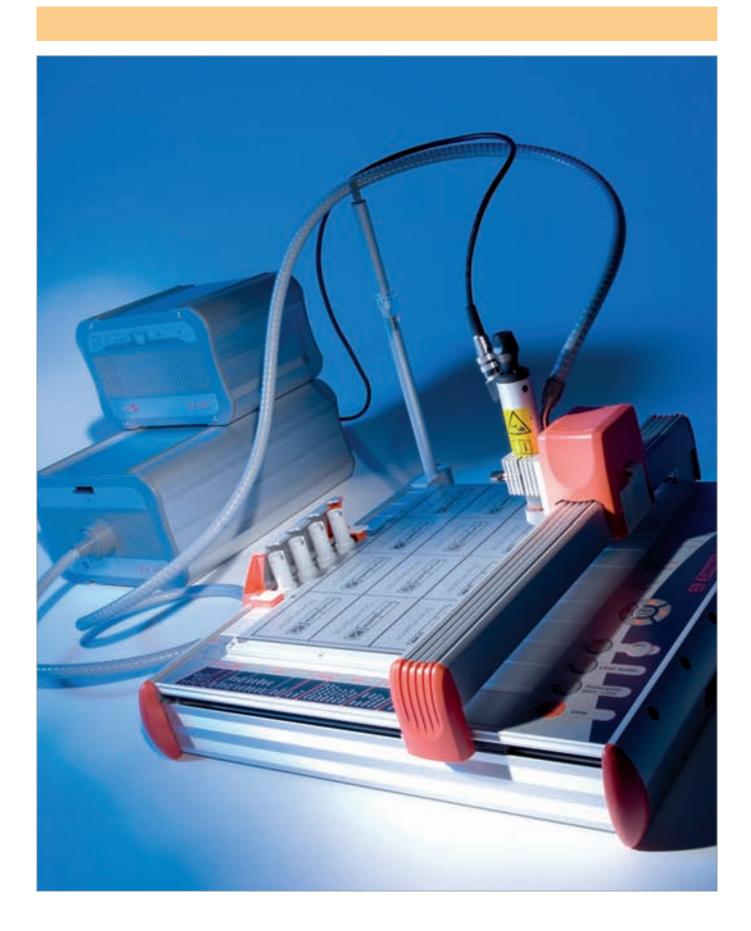
For blackening engraved lettering on silver anodised aluminium labels.



| Type | Order no. | Pack |
|---|---|---|
| Aluminium oxide 100 ml (2x 50 ml) | 86621260 | 1 |

# Accessories

## Accessories BK quick-labels

Holder frames, metal tongue and extractor hook

**Page 204**

## ACS function tool

Multi-purpose KM-T10 tool for fabricating label sleeves and universal pliers BZS T20

**Page 205**

## Tools

Cable shears, cable stripping knife, insulation stripper, cable tie tool

**Page 206**

# Overview



## Cable ties KB/KKB/KBM/BF

Provides aids for bundling and affixing cables, looms, etc.

**Page 212**

## SH screwed holder

For cost-effective fastening of individual cables.

**Page 214**

## Cable tie rail KBL

For quick and simple fastening of several cables.

**Page 217**

## ASI-Snap label holder

Mounting clip for laying the ASI bus cable and to held one KM4/.. label holder.

**Page 215**

## Spiral tape SB /SBF

Spiral tapes are used to bundle cable harnesses efficiently and simply.

**Page 218**

## KH Screwdown/adhesive holder

For cost-effective fastening of individual cables.

**Page 216**

## S-hooks

S-hooks permit quick and easy affixing of label plates onto conduits and hoses.

**Page 219**

## Holder frame / metal tongue / metal hook

Holder frame for 25 BK ident strips. The holder frame provides a clear overview of the labels required and ideal access for the metal tongue.

The metal tongue is required to assemble the idents and to insert them into the label sleeves or other label holders.

The metal hook is required for removing labels which have been inserted.

AK

MZ..

HK

| Type | Order no. | | Pack qty. |
|---|---|---|---|
| **Holder frame** | | | |
| AK holder frame | 86392010 | | 1 |
| | | | |
| **Metal tongue** | | | |
| MZ 5 metal tongue | 86392014 | max. 6 BK 30 | 1 |
| MZ 9 metal tongue | 86392016 | max. 9 BK 30 | 1 |
| | | | |
| **Extractor hook** | | | |
| HK hook | 86392012 | | 1 |

# ACS function tool

Multi-purpose tool KM-T10 for fabricating label sleeves. For cut goods KM and KMH in 9 and 15 mm widths.

Universal pliers BZS T20 for cutting the BZS label rail and the transparent cover to length.

Supplied with alternative cutting heads.



KM-T10



BZS-T20

| Type | Order no. | Pack qty. |
|---|---|---|
| **Universal pliers for BZS system** | | |
| KM-T10 | 86392020 | 1 |
| | | |
| **Multi-purpose tool for label sleeve** | | |
| BZS T20 | 86392030 | 1 |

## Type BNW (riveting tool)

Only this tool brings out the full economical effect of the BN fixing rivet.

The tools are matched to the size of the rivets.

For type BN fixing rivets, see "Accessories" chapter.

BNW

BN

| Type | Order no. | for | length mm | Pack qty. |
|------|-----------|-----|-----------|-----------|
| BNW 1 | 87641010 | BN 1 | 130.0 | 1 |
| BNW 2 | 87641012 | BN 2 | 130.0 | 1 |
| BNW 3 | 87641014 | BN 3 | 130.0 | 1 |

# Cable shears

Sturdy cable shears.

Suitable for removing cable sheathing and braided shields.

EW-PAP cable protection conduit with metal braiding can be processed with these shears.



KS 1

| Type | Order no. | | Pack qty. |
|------|-----------|--|-----------|
| KS 1 | 87661016 | Approx. length 175 mm | 1 |

## Cable stripping knife

Special cable stripping knife for stripping of wiring.



KM

| Type | Order no. | | Pack qty. |
|---|---|---|---|
| KM | 87661018 | Approx. length 170 mm | 1 |
| with adjustable internal knife | | | |

# Stripping tongs

Stripping tongs for single wires up to a diameter of 2.5 mm².

A slider is used to adjust the stripping length.

The stripping tongs posses an integrated cutting mechanism.



UAZ

| Type | Order no. | | Pack qty. |
|------|-----------|---|-----------|
| UAZ | 87661020 | Approx. length 190 mm | 1 |
| For wire cross sections from 0.5 to 2.5 mm² | | | |
| Adjustable stripping length | | | |
| Can be adjusted to the thickness of the insulation | | | |
| With integrated wire cutter for conductors up to 2.5 mm² | | | |

## Cable tie tools for plastic cable ties

Tools for mounting of plastic cable ties.

- KBW 1K with adjustable automated cutting mechanism, plastic casing, automated metal cutting mechanism
- KKBW is full metal with manual cutting mechanism



KBW 1K



KKBW

| Type | Order no. | | Pack qty. |
|------|-----------|--|-----------|
| KBW 1K | 87661012 | Approx. length 170 mm | 1 |
| With adjustable automatic cutting device | | | |
| Suitable for cable ties of up to 6 mm wide | | | |
| | | | |
| KKBW | 87669094 | Approx. length 190 mm | 1 |
| Cable tie tool suitable for plastic cable ties KKB 28 / KB 110. | | | |
| Also suitable for plastic cable ties up to 8 mm wide | | | |

# Cable tie tool for metal ties

Cable tie tools intended for metal cable ties of type KBM, with manual cutting mechanism.

• Robust metal tool

KBW/M

| Type | Order no. | | Pack qty. |
|------|-----------|--|-----------|
| KBW/M | 87669090 | Approx. length 200 mm | 1 |
| Cable tie tool suitable for cable tie KBM | | | |
| With manual cutting mechanism | | | |

## Cable ties KB / KKB / KBM

-25 to 85 °C

Polyamide 6.6

Self-extinguishing

Cable ties are a reliable method for the economic bundling and fastening of cables, cable harnesses, tubes, conduits and other components.

The black cable ties are suitable for outdoor applications.

The cable tie KKB 28 is equipped with a special locking mechanism and is especially suitable for heavy-duty applications.

KB.../KBM...

| Type | Order no. natural colour | Order no. black | length mm | Width mm | Bundle range approx. mm | Tensile strength max. kg | Pack qty. |
|------|--------------------------|-----------------|-----------|----------|-------------------------|--------------------------|-----------|
| KB 15 | 87661210 | 87661251 | 75.0 | 2.2 | 15.0 | 6.0 | 1000 |
| KB 20 | 87661214 | 87661252 | 98.0 | 2.5 | 20.0 | 6.0 | 1000 |
| KB 22 | 87661218 | 87661254 | 130.0 | 2.9 | 22.0 | 8.0 | 1000 |
| KB 25 | 87661222 | 87661256 | 140.0 | 3.6 | 25.0 | 13.0 | 1000 |
| KB 30 | 87661226 | 87661260 | 160.0 | 4.5 | 30.0 | 18.0 | 1000 |
| KB 45 | 87661230 | 87661262 | 178.0 | 4.8 | 45.0 | 22.0 | 1000 |
| KB 50 | 87661234 | 87661264 | 200.0 | 2.9 | 50.0 | 8.0 | 1000 |
| KB 55 | 87661238 | 87661266 | 200.0 | 4.8 | 50.0 | 22.0 | 1000 |
| KB 75 | 87661242 | 87661268 | 290.0 | 4.8 | 75.0 | 22.0 | 100 |
| KB 100 | 87661246 | 87661270 | 360.0 | 4.8 | 100.0 | 22.0 | 100 |
| KB 110 | 87661248 | 87661272 | 370.0 | 7.8 | 110.0 | 54.0 | 100 |
| Recommended assembly tool KBW 1K | | | | | | | |
| | | | | | | | |
| **Power cable tie with special lock** | | | | | | | |
| KKB 28 | | 87661258 | 180.0 | 8.0 | - | - | 100 |
| Matching assembly tool KKBW | | | | | | | |
| | | | | | | | |
| **Metal cable tie** | | | | | | | |
| KBM | | 87661014 | 200.0 | 4.3 | - | - | 100 |
| Matching assembly tool KBW/M | | | | | | | |

# BF Cable ties

-25 to 85 °C

Polyamide 6.6
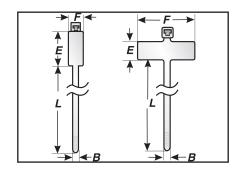
Cable tie with title block.

For use with ink pens or permanent waterproof markers.

BF20 (Fig., right) title block lengthways along cable
BF45 (Fig., left) title block across cable

BF...

| Type | Order no. natural colour | Colour | L approx. mm | B approx. mm | E approx. mm | F approx. mm | Bundle range approx. mm | Tensile strength min. [N] | Pack qty. |
|------|--------------------------|--------|--------------|--------------|--------------|--------------|-------------------------|---------------------------|-----------|
| BF 20 | 87681010 | white | 86.0 | 2.5 | 8.0 | 25.0 | 19.0 | 80.0 | 100 |
| BF 45 | 87681012 | transparent | 157.0 | 4.7 | 28.0 | 13.0 | 45.0 | 222.0 | 100 |

The dimensions may deviate for technical or production reasons.

## SH screwed holder
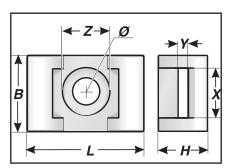
-40 to 85 °C

Polyamide

The SH screw-down holder is used to fix individual cables cost-effectively.

It can be screwed or riveted to any surface.

| Type | Order no. | Colour | L mm | B mm | H mm | X mm | Y mm | Z mm | Ø mm | Pack qty. |
|------|-----------|--------|------|------|------|------|------|------|------|-----------|
| SH 1 | 87681210 | white | 15.0 | 10.0 | 7.0 | 5.0 | 2.0 | 7.0 | 3.7 | 100 |
| SH 2 | 87681212 | white | 22.5 | 15.0 | 11.0 | 9.2 | 2.8 | 10.0 | 5.0 | 100 |

# ASI-Snap label holder

-40 to 80 °C

Hard PVC

V0
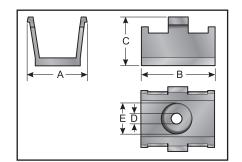
Laying and labelling for ASI bus cable

Mounting clip for laying of the ASI bus cable. Easily installable mounting clip, screwed or riveted, for affixing and laying the ASI bus cable. The bus cable is simply snapped into the mounting clip; no further assembly required. KS 4/... labels can be latched into the mounting clip as bus cable labelling.



| Type | Order no. | for label holder | A mm | B mm | C mm | D mm | E mm | Pack qty. |
|------|-----------|------------------|------|------|------|------|------|-----------|
| ASI-Snap | 86321062 | KM 4/... | 14.0 | 15.0 | 11.0 | 2.5 | 6.5 | 50 |

## Screwed and adhesive holder KH

-40 to 85 °C

Polyamide

The retention force can be increased by additional fastening with a screw.

If pressure sensitive adhesives are used, the surface must be smooth and free of dust and grease.
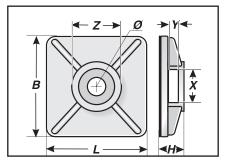
Contaminated surfaces must be cleaned with proper cleaning agents.

| Type | Order no. | Colour | L mm | B mm | H mm | X mm | Y mm | Z mm | Ø mm | Pack qty. |
|------|-----------|--------|------|------|------|------|------|------|------|-----------|
| KH 1 | 87681220 | white | 19.0 | 19.0 | 6.0 | 4.0 | 1.8 | 7.7 | 4.3 | 100 |
| KH 2 | 87681222 | white | 27.0 | 27.0 | 7.5 | 6.0 | 2.3 | 9.7 | 4.7 | 100 |

# Cable tie rail KBL
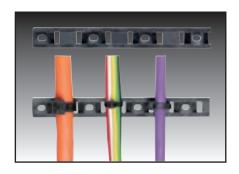
-40 to 80 °C
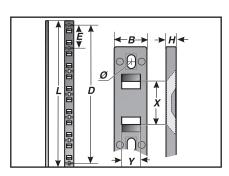
Polyamide PA 6

Quick and easy fitting of cables.

Cable ties may be pushed on if a rail is already fitted.

| Type | Order no. | Colour | No. Cable ties | L mm | B mm | H mm | D mm | E mm | X mm | Y mm | Ø mm | Pack qty. |
|------|-----------|--------|----------------|------|------|------|------|------|------|------|------|-----------|
| KBL 245 x 15 | 87702120 | black | 6 | 245.0 | 15.6 | 5.1 | 230.0 | 38.5 | 20.0 | 8.6 | 4.0 | 1 |

## Type SB / SBF (spiral tape)

-60 to 85 °C
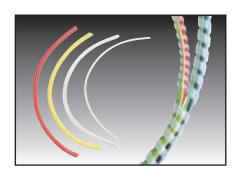
Polyethylene

Spiral tapes are used to bundle cable harnesses efficiently and simply.

The spiral tapes also protect the insulation of the conduit/single wire. Branches of single wires or looms of cables may be made at any place.

Bundling in the range from 2 – 100 mm is possible with just three sizes.

Type SBF consists of flame-retardant material.
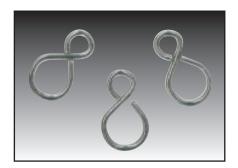
| Type | Order no. | Colour | Bundle range mm | inside mm | external mm | Weight kg / 100 m | Pack m |
|------|-----------|--------|-----------------|-----------|-------------|-------------------|--------|
| SB 12 | 87621010 | transparent | 2.0–12.0 | 1.5 | 3.0 | 0.5 | 50 |
| SB 50 | 87621012 | transparent | 5.0–50.0 | 4.0 | 6.0 | 1.5 | 100 |
| SB 50 | 87621210 | yellow | 5.0–50.0 | 4.0 | 6.0 | 1.5 | 100 |
| SB 50 | 87621250 | orange | 5.0–50.0 | 4.0 | 6.0 | 1.5 | 100 |
| SB 100 | 87621014 | transparent | 12.0–100.0 | 9.0 | 12.0 | 4.0 | 50 |
| SB 100 | 87621212 | yellow | 12.0–100.0 | 9.0 | 12.0 | 4.0 | 50 |
| SB 100 | 87621252 | orange | 12.0–100.0 | 9.0 | 12.0 | 4.0 | 50 |
| **Flame-retardant version (fire classification acc. to UL94: V0)** | | | | | | | |
| SBF 12 | 87621050 | white | 2.0–12.0 | 1.5 | 3.0 | 0.5 | 50 |
| SBF 50 | 87621052 | white | 5.0–50.0 | 4.0 | 6.0 | 1.5 | 100 |
| SBF 100 | 87621054 | white | 12.0–100.0 | 9.0 | 12.0 | 4.0 | 50 |
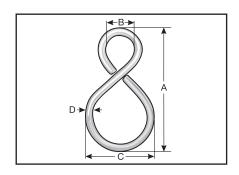
# S-hooks

S-hooks serve to fix the labels in place. Simple and easy to fit on cables and conduits.





| Type | Order no. | A mm | B mm | C mm | D mm | Pack qty. |
|---|---|---|---|---|---|---|
| S-hooks (nickel-plated) | 86721490 | 25.0 | 5.0 | 10.0 | 2.0 | 500 |

# Labelling and fitting service





**DL**

## Economic labelling - quick and conforming to standards

### Many companies are ill-equipped when it comes to correct and cost-effective labelling of cables in control cabinets and elsewhere.

We are all familiar, whether from the home or the office, with the maze of cables tangled behind and under the PC because so many peripheral devices have to be connected to the central unit - from the printer to the scanner and the speakers to the USB connection. Only in precious few cases are cables labelled, meaning confusion the rest of the time when changes or modifications are to be made.

Such negligence is unthinkable in industry. That's why there are precise regulations specifying how the individual cables, conduits and tubes are to be labelled in wiring harnesses or looms. After all, it is both desirable and imperative for the technician to know immediately what is in the control cabinet, railway carriage or behind the panelling in the aircraft. In the majority of cases, such regulations do not merely state that labelling is mandatory but they also specify the precise nature of the labelling. Indeed, those requirements can differ greatly in terms of inscription method, typefaces and base material. Another factor to consider is that the labelling plates often have to be produced in bulk.

### All-round service from Murrplastik

A company that develops, installs and commissions control systems, for example, is in many cases not in a position to handle the mandated -- and often very different -- labelling, either in terms of the equipment, manpower and time required. Murrplastik Systemtechnik GmbH is ready to handle this task for you - in the correct way, with the correct material and, above all, quickly and without undue inconvenience to the customer.

In its service centre, Murrplastik always applies the correct labelling method to fulfil the requirement. Inscription is handled using lasers, plotters, thermal lamination and laser printing technology as well as engraving. Laser technology is synonymous with high operating speeds, supreme quality, short processing times and crisp typefaces. Plotter technology boasts a very high configuration capacity and is suitable for virtually any material. Laser printing technology lends itself well to sheet labels, which in turn are suitable for virtually all fields of application. Colour printing is no problem either. Engraving technology is used for metals and suitable plastic-coated materials.

### Convenient and secure data exchange

It is remarkably easy to transmit labelling data. Simply send it to our service centre by e-mail, data carrier or fax. The data is then processed as quickly as possible by Murrplastik specialists and can be saved for up to two years for further projects on request. The data format options are virtually unlimited: ASCII format, files from MS Office applications (Word, Excel) and ACS labelling software data are all acceptable.

However, customised labelling is only one part of our all-round service package. Our specialists also fit labels in sleeves, assemble the holders and cable ties, undertake project-specific packing as prescribed, and much more - and they don't take all day.

### Impressive credentials
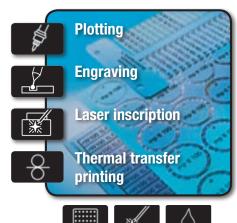
For years now, many reputable firms in a very diverse range of sectors have been using this all-inclusive service offered by our company - the automotive industry, railway systems, control cabinet construction, general electrical engineering. The reason is obvious: each of these branches puts a supreme priority on economy and profitability!

**We can inscribe:**

☑ **Label plates**

☑ **Labels**

☑ **DuoMatt plates**

**using the following technologies:**

| | |
|---|---|
|  | **Plotting** |
|  | **Engraving** |
|  | **Laser inscription** |
|  | **Thermal transfer printing** |

**and office printers**

**We fit the labels:**

☑ **into label sleeves**

☑ **with your label plates**

☑ **for immediate application**

**on wires, cables and conduits**

**The benefits for you are obvious:**

☑ **short processing times**

☑ **Rapid and cost-effective production**

☑ **Delivery within three working days**

**Our email address for your projects is:**

dl@murrplastik.de
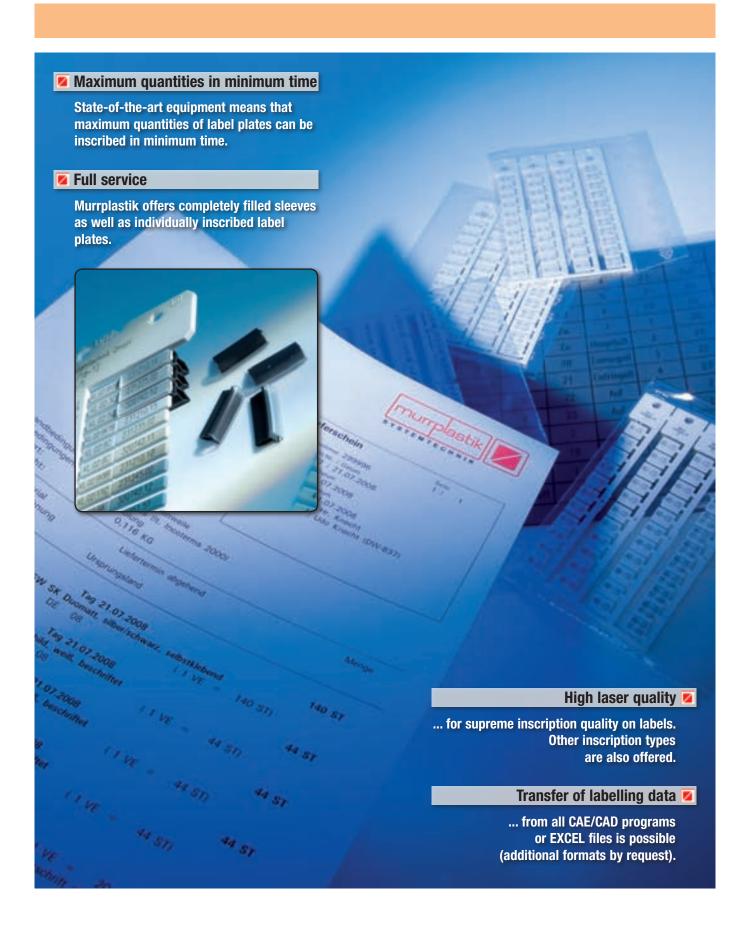
Your orders arrive directly in the service centre and are processed on a day-to-day basis. You will receive the inscribed label plates and/or filled sleeves ready for immediate application. You send us your files by e-mail in one of the following formats:
**ASCII, Excel, ACS *.mdb or ACS 2000 *.pdb (further formats on request).**

## Maximum quantities in minimum time

State-of-the-art equipment means that maximum quantities of label plates can be inscribed in minimum time.

## Full service

Murrplastik offers completely filled sleeves as well as individually inscribed label plates.

## High laser quality

... for supreme inscription quality on labels. Other inscription types are also offered.

## Transfer of labelling data

... from all CAE/CAD programs or EXCEL files is possible (additional formats by request).

# Material properties

## Material descriptions

### PMMA  Polymethylmethacrylat Co-Polymer

Duomatt material is UV stabile and tested under extreme conditions for resistance to ageing. It retains both a brilliant surface as well as its other physical properties over a long time period (approx. 10 to 20 years). Duomatt is both halogen and silicon free.

| | |
|---|---|
| **Processing temperature:** | -30 to 82° C |
| **Flammability:** | Class HB based on UL-94 |
| **Water absorption:** | 0.36 % |
| **Crack resistance:** | 35 % |
| **Impact resistance:** | 58.5 J/m$^2$ |

### ABS    Acrylonitrile butadiene styrene

The thin surface on Duomatt Siemens silver SSI and SI brushed provides a finer typeface compared with Duomatt. The silver-coloured foil is less hard wearing than standard Duomatt material.

| | |
|---|---|
| **Processing temperature:** | -20 to 85° C |
| **Flammability:** | Class HB based on UL-94 |
| **Water absorption:** | 0.36 % |
| **Crack resistance:** | 30 % |
| **Impact resistance:** | no breaking |

### PC     Polycarbonate

Excellent surface gloss and transparency (natural), high mechanical strength and dimensional stability under heat, outstanding electrical and dielectric properties, superb dimensional accuracy and low water absorption. Impact resistance up to approx. 140°C and, as a general rule, PC is self-extinguishing even without the addition of fire-retardants.

| | |
|---|---|
| **Thermal stability:** | up to 140° C |
| **Dimensionalstability:** | up to 1.8 N/mm 135° C |
| **Flammability:** | V0 based on UL94 |
| **Halogen-free** | conforming to DIN/VDE 0472, Section 815 |
| **UV-stabilised** | |

### PA     Polyamide

Broad range of properties covered by different types (PA 6 and PA6.6 are frequently used). The broadly good electrical and mechanical properties are especially resistant to impact and abrasion.
When dry, PA is sensitive to impact. Water absorption renders PA flexible.

| | |
|---|---|
| **Thermal stability:** | up to 140° C |
| **Fire classification:** | V2 i.a.w. UL94 |

### PVC    Polyvinyl chloride

Soft PVC is made from polyvinyl chloride, softeners and additives, e.g. stabilisers and lubricants. PVC is resistant to corrosive saline solutions and most acids.

| | |
|---|---|
| **Thermal stability:** | up to 60° C |
| **Fire classification:** | V0 based on UL94 |

### TPU    Thermoplastic Polyurethane

Outstanding features of this material include its high flexibility even at low temperatures, high continuous operating temperature, high resistance to tear propagation and very good restoring forces, high resistance to grease, oil, solvents, high-energy radiation and ultraviolet light.

| | |
|---|---|
| **Continuous operation use:** | -35 to 120° C |
| **Fire classification:** | V0 based on UL94 |
| **Halogen-free** | conforming to DIN/VDE 0472, Section 815 |

# Material descriptions

## Self-adhesive sheet labels

Self-adhesive films are tested and approved in conjunction with specific substrates under the UL classification "Polymer Adhesive Systems".

For this reason, all self-adhesive films should be tested on the respective substrates instead of merely testing the self-adhesive film alone.

| Sheet labels of types | Material | Thermal stability | Fire classification | Adhesive strength |
|---|---|---|---|---|
| ELG/ELW/ELO/ ES/ESL | Polyester foil | –40° C to 150° C permanent min. processing temperature 5° C | V0 i.a.w. UL94 | 17 N/10 mm |
| EDG | Reinforced textile | 0° C to 80° C | | 9 N/25 mm |

## Adhesive 467

- Acrylate A-30
- Fire classification: MIL-P-19834 B, Amend 1Type1
  UL approved (MH-11410)
  fulfils AGA and CSA requirements

Adhesive power: 11 N/10 mm
Thermal stability: –40° C to 150° C permanent
200° C transient
Processing temperature: 18° C to 30° C

## Adhesive 1780

- Polyethylene foam

Adhesive power: 10 N/15 mm
Thermal stability: –40° C to 150° permanent
Processing temperature: 10° C to 80° C

## Adhesive 4883

- Stable, durable acrylate
- Universal adhesive with high tack and extreme adhesive power

Adhesive power on glass: 15 N/25mm
Thermal stability: –40° C to 150° C permanent
Processing temperature: 5° C minimum
Solubility: soluble

## Adhesive 4930

- Polyacrylate ester mixed with adhesive resin

Thermal stability: 93° C max.
149° C transient
Processing temperature: 10° C minimum
Solubility: insoluble

## Adhesive 4965

- Polyacrylate ester mixed with adhesive resin

Thermal stability: 93° C max.
149° C transient
Processing temperature: 10° C minimum
Solubility: insoluble

## Adhesive 5917

- Natural rubber, heat tempered
- High adhesive power on almost all substrates
- Quick and easy removal

Adhesive power on steel: 9.5 N/25mm
Storage: not above 25° C and
55 % rel. humidity

## Why polycarbonate labels instead of polyamide ones?

Murrplastik Systemtechnik uses high-quality polycarbonate for your label plats, meeting the requirements laid down by UL94 for the top fire classification V0. This offers clear advantages over polyamide as used by our competitors.

Polycarbonate (PC) is used for any applications requiring a high-quality surface finish in respect for scratch resistance and gloss level. As such, PC is widespread in the automotive sector, where examples of its use include headlight lenses and PC/ABS blends in the interior. Polyamide (PA) by contrast is rarely found in interior fittings, even in blends. Polyamides are, however, prevalent under the bonnet, for example, where less significance is attached to the appearance.

For use as a label plate, polyamide has another unfavourable property: ambient water absorption of approx. two percent by weight. This can cause dimensional variations (small dimensions at low temperatures and low air humidity, large dimensions at high temperatures and high air humidity). The absorption of water does not tend to affect the dimensions of the label plates too severely, but it does take an undue impact on the properties of the material. Indeed, if water absorption is low, the material is very brittle and tends to break (e.g. when latching onto a terminal block). Conversely, if water absorption is high, then it is very soft and it may be difficult to separate plates from each other (tear response).

In terms of its inscription properties, polycarbonate is far ahead of polyamide. Since PC is more prone to chemical reaction, it lends itself well to ink and laser inscription as well. Whereas PA scarcely reacts to the energy application of laser light, the colour change achieved with PC is outstanding.

The chemical reactivity of polycarbonate during inscription makes it an excellent abrasion-resistant surface for inks. If the resistance to abrasion and water is good in both materials, then inscriptions on polyamide wear off significantly if they come into contact with oil, petrol or ethyl alcohol. Polycarbonate, however, is also resistant to these substances.

## Tested material properties and associated test procedures

| Characteristic | Test procedure |
|---|---|
| Flammability | Flammability according to UL94 |
| Halogen-free | The material for the ACS label plates may be described as halogen-free as per DIN/VDE 0472, Section 814. This means a total bromine and chlorine content < 0.2 % and fluorine < 0.1 %. |
| UV light resistance | Test in ultraviolet light chamber in accordance with Murrplastik in-house standard. Assessment of labelling for clear legibility based on DIN EN ISO-4892-2. |
| Ageing | Regular testing in climate simulation chamber as per Murrplastik in-house standard |
| Functional testing | Trial mounting of sleeves at different temperatures. Assessment of fit at maximum and minimum diameters. Handling test on carrier/plate. Test on fit of plate in sleeve. |
| Hardness test | Test based on Shore A - ISO 868 |
| Vibration, shock and impact testing | Vibration, shock and impact test conforming to DIN EN 50155 Point 10.2.11 Simulated durability test using increased wide band random vibration as specified by DIN EN 16373 (VDE 0155 Part 103): 1999-11 Point 9.1 Category 1B. |
| Smear resistance | Tests measuring resistance to wiping off when exposed to machine oil, water, ethyl alcohol and hand perspiration. |
| Scratch/abrasion resistance | Test determining changes to legibility with different types of inscription (ink / printing / laser) pursuant to Murrplastik in-house standard. |
| Chemical resistance of the inscription | Test for chemical resistance based on Murrplastik in-house standard. |

# Appendix

## Sales agencies/Germany

| | |
|---|---|
| Postcode areas: | Murrplastik Systemtechnik GmbH |
| 20095–32609 | Sales Region North |
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| | info@murrplastik.de |

| | |
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| Postcode areas: | Murrplastik Systemtechnik GmbH |
| 01067–06928 | Sales Region East |
| 07318–07989 | Phone: +49 33762 819 74 |
| 08056–19417 | Fax: +49 33762 819 75 |
| 36404–36469 | info@murrplastik.de |
| 39104–39649 | |
| 98527–99998 | |

| | |
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| Postcode areas: | Murrplastik Systemtechnik GmbH |
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| 38640–38899 | |
| 44135–49849 | |
| 58089–59969 | |

| | |
|---|---|
| Postcode areas: | Murrplastik Systemtechnik GmbH |
| 35216–35239 | Sales Region Southwest |
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| 50126–57648 | |
| 60308–69518 | |
| 74706–74939 | |
| 76726–76891 | |
| 97900–97999 | |

| | |
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| Postcode areas: | Murrplastik Systemtechnik GmbH |
| 86720–86759 | Sales Region North Bavaria |
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| 95028–97896 | Fax: +49 7191 482-280 |
| | info@murrplastik.de |

| | |
|---|---|
| Postcode areas: | Murrplastik Systemtechnik GmbH |
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| 88045–88099 | info@murrplastik.de |
| 88212–89299 | |
| 89518–89619 | |

| | |
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| Postcode areas: | Murrplastik Systemtechnik GmbH |
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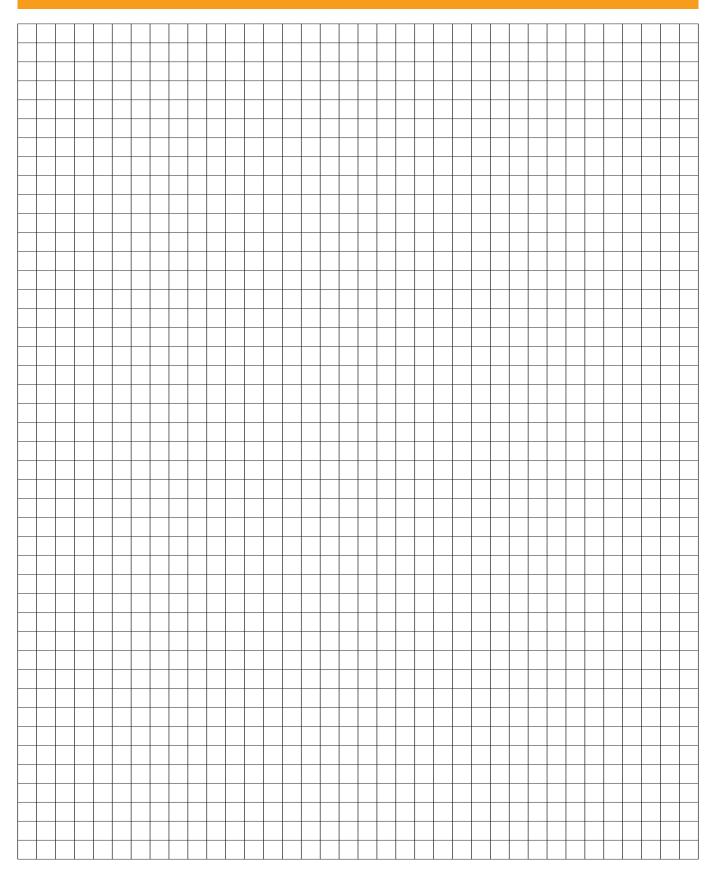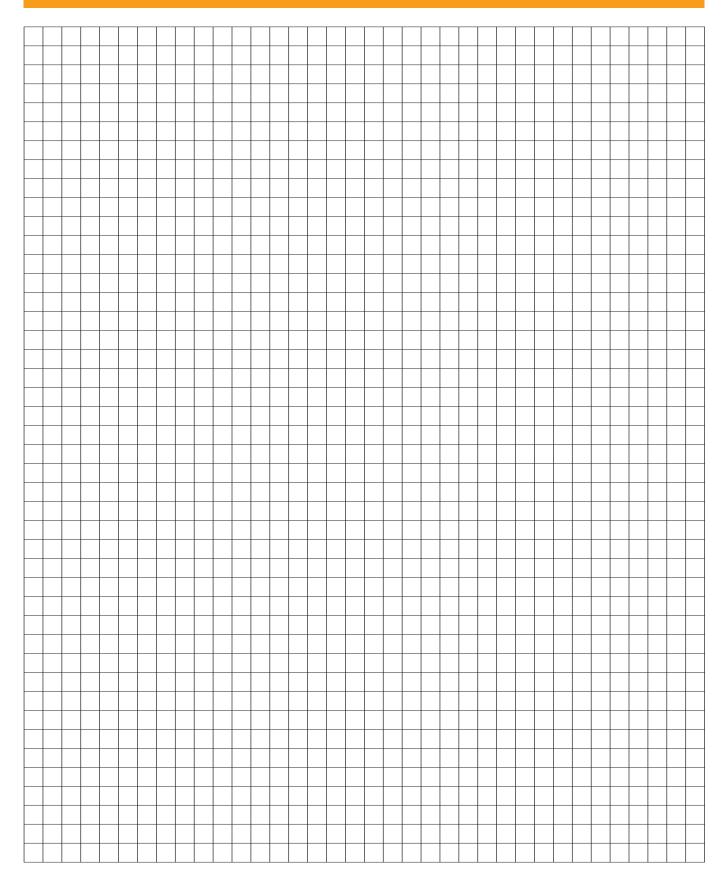
## Notes

# Notes

## Notes

# Notes

## Labelling

All articles bearing this sign are **halogen-free**

This article corresponds to the EU guideline (RoHS) 2002/95/EC

## Installation method

**Sleeve system**
Mount by sliding sleeve over product

**Direct labelling system**
Direct push-on mounting system

**Cable tie system with sleeves**
Sleeve mounted with cable ties

**Cable tie system label**
Plate mounted with cable ties

**Cable ties**
Mounted with cable ties

**Clamping system**
Sleeve clamped into place

**Self-clamping system**
Self-clamping base used to mount holder

**Adhesive system**
Plate glued into place

**Snap-in system**
Plate snapped into place

**Strip system**
Strip snapped into place

**Rivet system**
Plate riveted into place

**Screw-in system**
Plate screwed into place

## Inscription technique

Inscription with **plotter**

Inscription with **hand pen**

Inscription with **laser option/MVPS-G3**

Inscription by **engraving**

Inscription with **matrix printer**

Inscription with **(office) laser printer**

Inscription through **thermal lamination system**

Inscription with **ink-jet printer**

**Pre-inscribed** label plate

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