



Labeling systems

INSTALLATION TYPES



Sleeve system
Mount by sliding sleeve over product



Direct labeling system
Direct push-on mounting system



Cable tie system with sleeves
Sleeve mounted with cable ties



Cable tie system plate
Plate 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

LABELING TECHNOLOGY



Inscription with **plotter**



Inscription with **hand pen**



Inscription with **Office laser printer**



Inscription by **engraving**



Inscription with **matrix printer**



Inscription with **Pulsar laser**



Inscription with **thermal laminating system**



Inscription with **inkjet printer**



Pre-inscribed label



Heat-shrink conduit labeling

PRODUCT APPROVALS



rail vehicles

Product approvals in rail vehicles of the manufacturers Siemens, Bombardier, Alstom, Talgo for use in short and long distance traffic, as well as for regional transport systems.



Automobile industry

Product approvals in plants and machines of the automotive industry, as Audi, BMW, Citroën Peugeot, Daimler AG, Fiat, Karmann, Opel, Renault, VW for example.



Public buildings and facilities

Product approvals for media bearing

installations (electricity, air, water), supply, control, networks/grids, warning and signaling units



Air, water, road transport product approvals for

Air traffic vehicles: Media bearing installations, electricity, hydraulics

Watercraft: Electrical, hydraulics, pneumatics

Road vehicles: Bus, truck, special-purpose vehicles



Mechanical engineering

SPECIFICATIONS



Temperature range



Material



Fire classification UL 94



Additional information



Adhesive

LABELING



Part is **halogen free**



Part is **UV resistant**

Contents

THE COMPANY

International expertise	Pages 4 – 5
Quality, production and development	Pages 6 – 7
Any label – one software package	Pages 8 – 9

INTRODUCTION

Single wire, cable, and conduit labeling	Page 10
Terminal block labeling	Page 11
Equipment/equipment location labeling	Page 12
Control and signaling gear and plant system labeling	Page 13
Hardware and material overview	Pages 14 – 15
Offers for labeling services	Pages 16 – 17
Online searches for labeling and engraving materials	Pages 18 – 19
Heat-shrink conduit	Page 20
Selection / allocation table	Pages 24 – 29

LABELING SYSTEMS

Single wire, cable, and conduit labeling	Pages 31 – 78
Terminal block labeling	Pages 79 – 94
Component and component location labeling	Pages 95 – 124
Labeling of push-buttons and signal lamps	Pages 125 – 132
System labeling	Pages 133 – 135
Software	Pages 137 – 138

Labeling systems

• Inkjet system + accessories and supplies	Pages 139 – 143
<i>pictor²</i>	Page 140
<i>pictor² Black</i>	Page 141
• Laser system + accessories and labels	Pages 144 – 151
pulsar M6	Page 144
pulsar A6	Page 145
• Plotter system, engraving options + accessories and supplies	Pages 152 – 161
MVPS basic	Page 152
MVPS G3-T	Page 153
MVPS G3	Page 154
MVPS G3-XXL	Page 155
Porty P300	Page 161
• Engraving system + accessories and supplies	Pages 162 – 176
MGS 50/60	Page 162
CAM 100	Page 163
CAM 200	Page 164
• Thermal transfer system + accessories and supplies	Pages 177 – 198
cab EOS1	Page 177
cab A4+M	Page 178
pavonis	Page 185 – 198

Accessories

Base plates	Page 200
Tools	Pages 201 – 202
S-hook	Page 203

APPENDIX

Labeling types - control and signaling gear labeling	Pages 206 – 209
Engraving materials and engraving tools	Pages 210 – 211
Combination options for labels / base plates	Pages 212 – 213
Combination options devices / base plates	Page 214
Material description, -properties	Pages 216 – 219
Index of types	Page 220



International expertise



AT YOUR SIDE, WORLDWIDE:

- Distribution
- Warehousing
- Production
- Services
- Development

THE MARKET LEADER'S QUALITY DEMANDS

Murrplastik is one of the world's leading manufacturers of manual and computerized labeling systems.

For many years, the 'Made by Murrplastik' labeling system has proven its worth in difficult day-to-day operations – from manufacturing plants in the automotive industry on through to rail technology. The tests carried out in our in-house testing facilities guarantee the highest quality with regard to longevity, robustness and profitability.

LABELING SOLUTIONS FROM A TO Z

Murrplastik offers labeling systems as complete solutions – everything from a single source, everything fits perfectly together.

Plotters, engraving machines, printers, laser machines and labeling software from Murrplastik can be used for

- A wide range of applications
- Label retrofitting
- Software and hardware as integrated or standalone solutions
- Labeling as a service

Electronic component labeling has been a continually developing field since labeling requirements began. Many years ago, Murrplastik Systemtechnik GmbH developed a labeling system that has since been used for the rapid and simple labeling of systems and components.

As far back as 1986, the then manual idents labeling system was enhanced by computer-aided labeling software and hardware.

With this approach to labeling, only a few components are required to achieve rapid, clean and durable results.

Over the last few years software user interfaces have changed considerably. User software has evolved to include various options for engraving, printing, laser engraving and plotting. Data import from the various CAD systems is possible as well.

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

All in all, the once hand written labels have developed into a universal labeling system for the widest range of requirements, with our principle being:

"WE SAVE YOU TIME".

APPLICATIONS

- Single wires
- Cables
- Cables
- Corrugated conduits
- Terminals
- Equipment
- Equipment locations
- Hydraulic components
- Pneumatic components
- Mechanics
- Control and signaling gear elements
- Sensor systems
- Actuators
- Enclosures
- Plant equipment

LABELING SYSTEMS

Labeling with ...

- Plotters
- Hand pen
- Automatic laser
- Engraving machines
- Laser printer
- Thermal transfer printer
- Inkjet printers



Quality, production and development

QUALITY

Murrplastik is one of the world's leading manufacturers of manual and computerized labeling systems.

- A tried and tested solution
- For manufacturing plant in the automotive industry
- Railway engineering
- In-house testing facilities
- Top quality
- Durability
- Ruggedness
- Profitability



Railway systems



Automotive industry

We test the materials against a huge range of parameters.

- Flammability
- Halogen-free rating
- UV-light resistant
- Aging
- Functional testing
- Hardness test
- Vibration, shock and impact testing
- Smudge resistance
- Scratch/abrasion resistance
- Brine spray test



Halogen-free rating



Flammability



Temperature range



Smudge resistance testing



UV-light resistance testing

PRODUCTION

Murrplastik offers labeling systems as complete solutions – everything from a single source, everything fits perfectly together.

- Plotters
- Engraving machines
- Inkjet printers
- Laser machines
- Labeling software
- A wide range of applications
- Software and hardware as integrated or standalone solutions
- Labeling as a service

DEVELOPMENT

The labeling of electrical components has always been important, and a topic that is constantly changing, while being of the utmost importance in the industry.

- Cost-effective, rapid and flexible production
- New, innovative solutions
- Highly sophisticated tools
- Optimal lettering
- Software-driven labeling
- Large range of label holders and labeling machinery
- Assured, high-speed production





Any label – one software package



FROM THE PLANNING STAGE ON THROUGH TO THE INSCRIPTION ON THE LABEL

Plot, print, engrave and laser with one software package!
The universal workstation at local or network level. Electrical, mechanical, pneumatic or hydraulic labeling tailored to requirements. One software application for company-wide labeling and one central labeling workstation keeps procurement, training and maintenance costs to a minimum.

YOUR ADVANTAGES

- One software package for all technologies
- Data import feature
- Creating individual forms
- Open exchange interface
- User-friendly design

COMPATIBILITY

INKJET

- Pictor2
- Pictor2Black

LASER

- Pulsar

THERMO TRANSFER

- Pavonis
- eos1 / A4+M

PLOTTING / ENGRAVING OPTION

- MVPS-G3 series

ENGRAVING

- CAM 100 / 200
- MGS 50 / 60



ENGRAVING



THERMAL TRANSFER



PLOTTING



LASER



INKJET





THE ACS SOFTWARE

The software offers you many new features and functions for the simple and optimal creation of labeling projects.

- Support for common graphics formats (BMP, PNG, JPG, WMF, HPGL, PLT)
- Enhanced symbol library
- Data import from a range of CAD systems
- Data management using the Project Explorer
- The list of recently opened projects is grouped into database and graphics projects

All in all, your benefits include:

- Process optimization
- Time savings
- Cost reductions
- Clear-cut workflows

Selection of printed/non-printed datasets

Targeted selection of already printed/not yet printed datasets, so as to optimize your workflows.

Status bar icons

Direct access to frequently-used program modules – such as system parameters, printer settings, parameter editor – via status bar icons.

Online help

The F1 key opens the currently required help topic.

Multi-frame feature

Display and output of the labeling text in the database project on different types of labels in a single process.

SYSTEM REQUIREMENTS

Operating system

- WIN XP Pro
- WIN Vista 32/64-bit
- WIN 7 32/64 BIT

Hardware

- Depending on the OS requirements

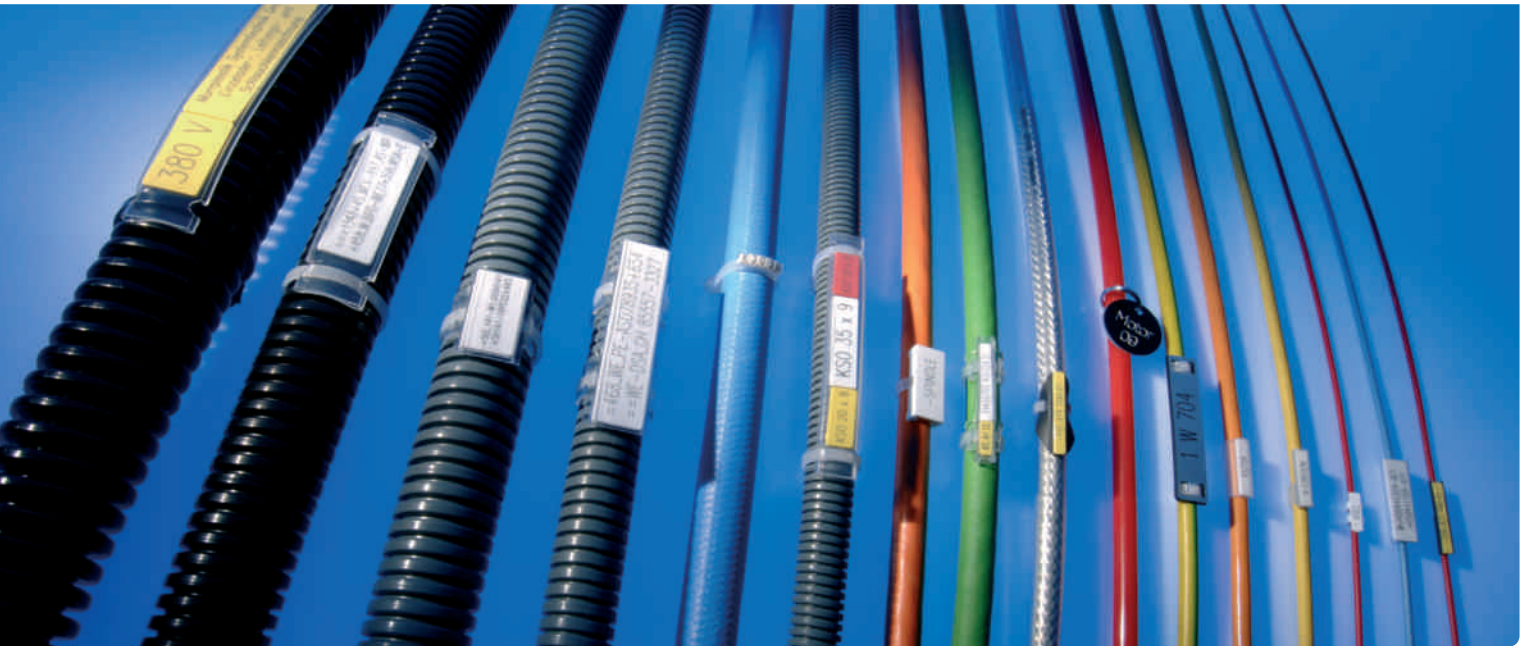
SERVICE & SUPPORT



ACS.HELPDESK@MURRPLASTIK.DE



Labeling of single wires, cables, conduits and media conduits



ENSURING YOU MEET THE STANDARD

European standard EN 60204 (VDE 0113 Part 1) stipulates the unique identification of cables, components and terminal blocks in switch cabinets.

This identification must be legible into the long term. Murrplastik's labeling system satisfies all of these requirements. The Murrplastik labeling system can be used to label

- Single wires
- Terminals
- Control gear
- Equipment locations
- Control and signal units
- and assemblies

from a wide range of manufacturers.

Data processing is handled by the ACS software. Data import protocols for CAD/CAE packages support the project-specific import of labeling information.

Murrplastik produces manufacturer-independent labeling systems.

LABELING MATERIAL

- Label sleeves
- Label holders
- Label plates

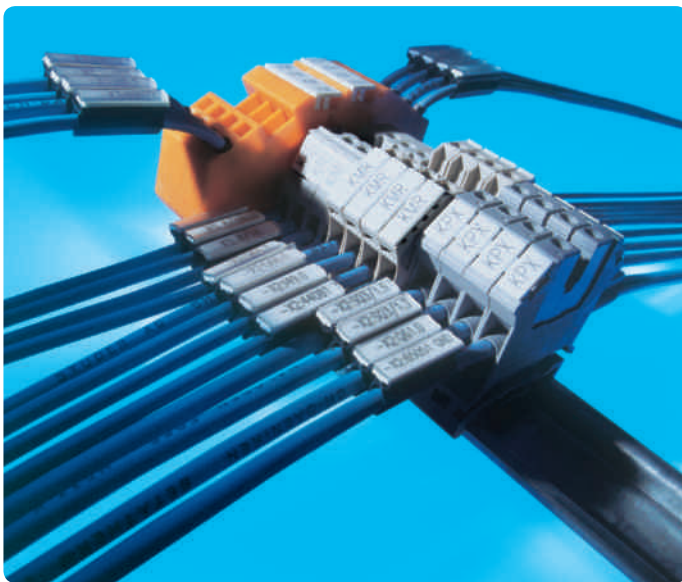
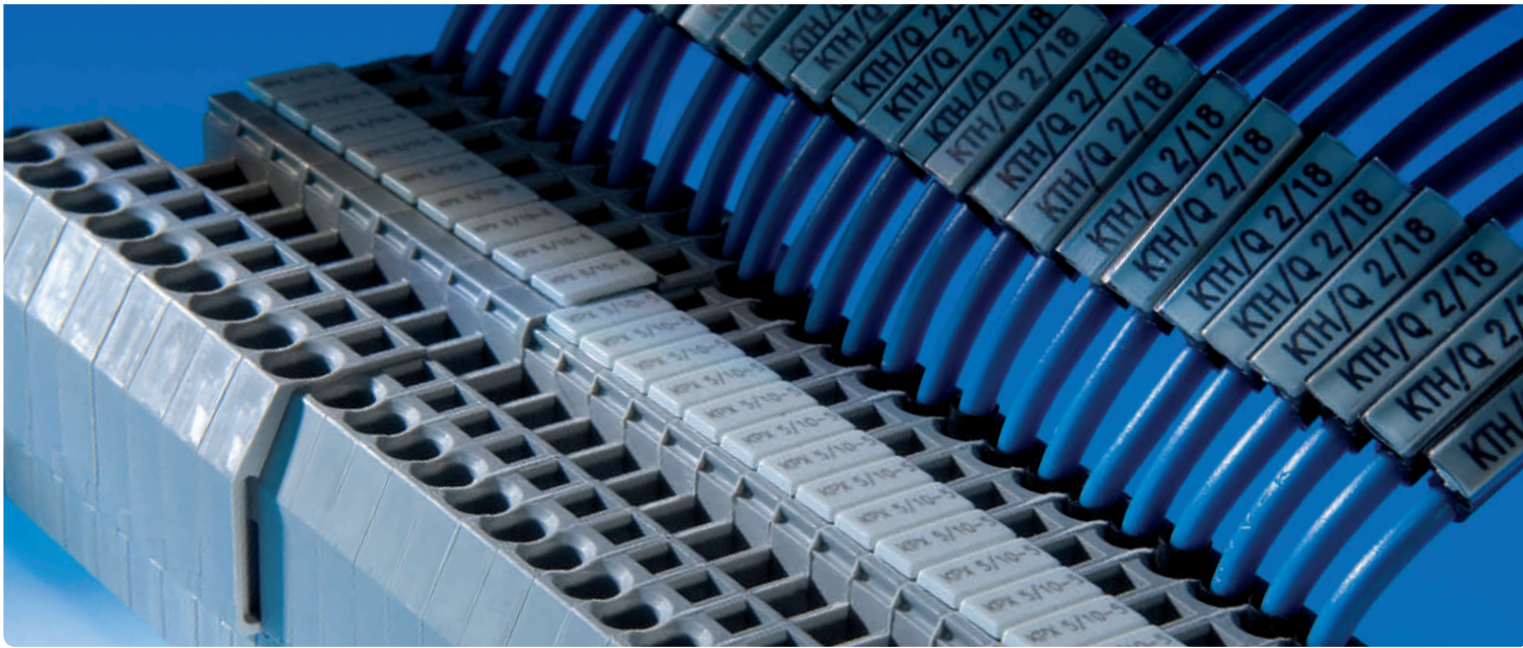
ENGRAVING MATERIAL

- DuoMatt
- TrioMatt
- AluMatt
- Anodized aluminum

It constitutes one of the most durable types of labeling, yet it is very economical.

- Extremely durable
- Resistant to environment influences and mechanical stresses
- Wide range of attachment options
- Many different formats
- Wide range of options
- Cannot become detached
- Label retrofitting possible

Terminal block labeling



LABEL PLATES

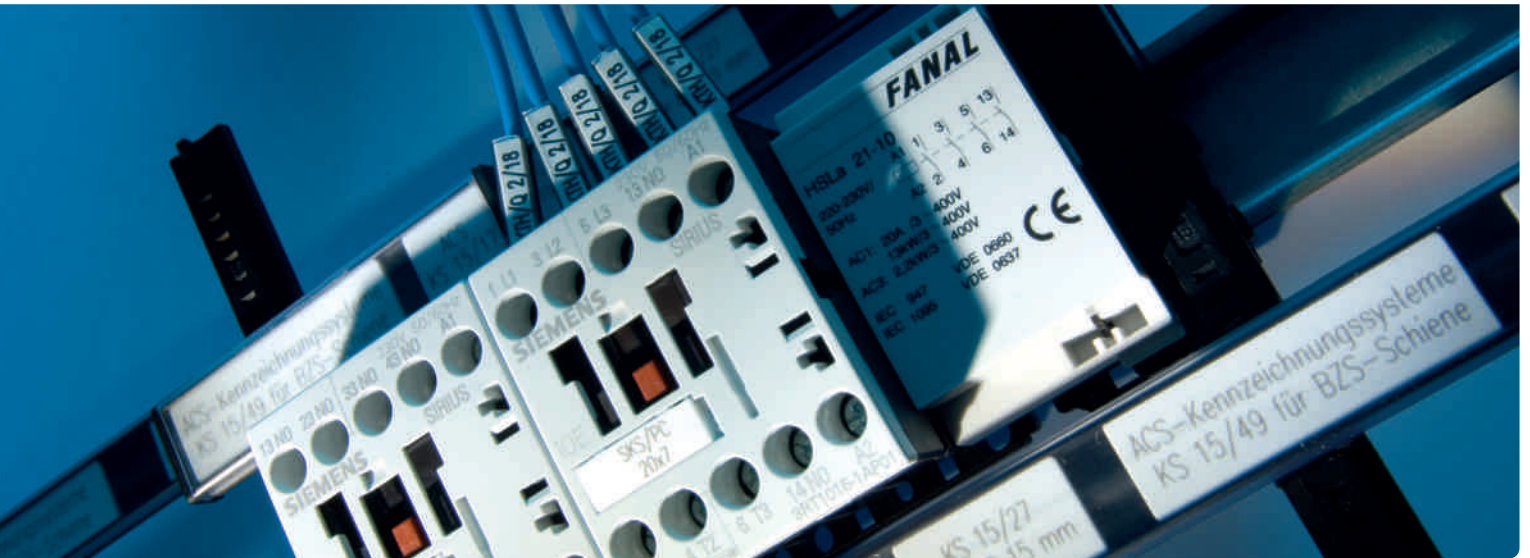
Label plates	Compatible terminal block manufacturer
KAB	Allen Bradley, ABB-Entelec, Lütze, Woertz
KLG	Legrand
KMR	Conta Clip, ABB-Entelec, Klemsan, Schlegel, Weidmüller and Wago
KPX	ABB-Entelec, Murrelektronik, Phoenix, Siemens and Wago
KSI	Siemens
KWI	ABB-Entelec, D+E, Legrand, Phoenix, Sprecher + Schuh, Telemechanique, Wago and Wieland
WGO	Beckhoff, ABB-Entelec and Wago
TK	Adels

TERMINAL BLOCK BRANDS

- Adels
- Allen Bradley
- Beckhoff
- Conta-Clip
- Cabur
- ABB Entelec
- Klemsan
- Legrand
- Lütze
- Murrelektronik
- Phoenix
- Siemens
- Schlegel
- Sprecher and Schuh
- Wago
- Weidmüller
- Wieland
- Woertz
- etc. ...



Equipment/equipment location labeling



LABEL PLATES

Label plates	Compatible equipment manufacturer
SKS	Siemens Sirius, Lütze
KSS	ABB, Conta Clip, Escha, Festo, IFM, Pepperl + Fuchs, Siemens, Turck
KSA	AEG and Square D
KTE	ABB, IFM, Murrelektronik, Telemecanique
KAB	ABB, Allen Bradley, Finder
ABB	ABB, Finder, Lumberg, Wago
KMO	Möller, Indramat, Murrelektronik
KS	Escha, Lumberg, Murrelektronik, Pepperl + Fuchs, IFM, Turck
KSF	Festo, Lumberg, Moeller, Murrelektronik, Pepperl + Fuchs
KSL	Bosch/Rexroth, Lumberg
KES	Escha, Murrelektronik, Turck
KPF	Pepperl + Fuchs
WGO	Beckhoff, Euchner, Wago
B&R	B&R X20 switchgear
KSK	Various manufacturers
KSZ	Harting heavy-duty plug connectors

Direct labeling

- Label plates for snap-fitting to equipment
- Label retrofitting possible via the use of sleeves for affixing with cable ties to cabling, hoses and equipment or by using adhesive label plates and holders

BZS labeling system

- Track-mounted system for equipment location labeling – can be stuck, bolted or riveted on
- The BZS system is extremely versatile

The labeling 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 KS/KSO labels are simply snapped into the label holder.

EQUIPMENT BRANDS

- | | |
|-----------------------|-------------------------|
| • ABB | • IFM |
| • AEG | • Indramat |
| • Allen Bradley | • Lütze |
| • Beckhoff | • Lumberg |
| • B&R Automation | • Möller |
| • Bosch/Bosch-Rexroth | • Murrelektronik |
| • Conta-Clip | • Pepperl + Fuchs |
| • Escha | • Phoenix |
| • Euchner | • Siemens |
| • Festo | • Turck |
| • Finder | • Universal application |
| • GE | • Wago |
| • Schneider | • etc. ... |
| • Harting | |

Labeling control and signaling gear and plant systems



VARIOUS OPTIONS FOR LABELING CONTROL AND SIGNALING EQUIPMENT

Manufacturer's label holder

A label from the Murrplastik labeling system is snapped or inserted into the original label holder (e.g. ABB, Allen Bradley, Möller, Siemens, etc.) supplied by the manufacturer of the control and signaling gear.

COMPATIBLE MURRPLASTIK LABEL PLATES:

- DuoMatt DM engraving material
- ELO/ELW sheet labels
- KSK/KS labels

Neutral, universal labels

Compatible with control and signaling gear from any manufacturer. This labeling method involves affixing any label plate desired from the Murrplastik labeling system program directly onto the control cabinet in any position.

Compatible Murrplastik label plates:

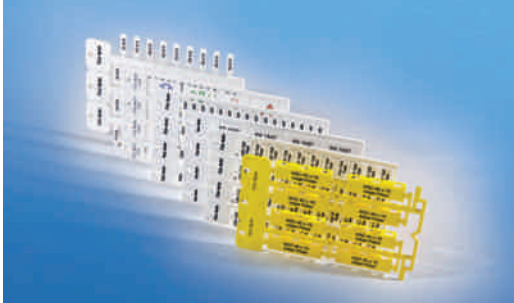
- KSK/KS labels
- DuoMatt DM engraving material
- AluMatt ALM / ALU engraving material
- ELO/ELW/ELG/ESL/EDG/TEP/TES/TEG labels

Hardware and materials overview

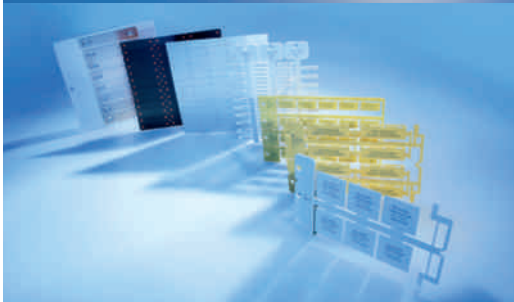
PROCEDURE	HARDWARE	BENEFITS
<p>INKJET</p> 	 <p>pictor2 INKJET MARKING BY MP</p> <p>pictor2 BLACK INKJET MARKING BY MP</p>	<ul style="list-style-type: none"> • Photo realistic quality • High print speed • Durable lettering • USB / WLAN / Ethernet ports • High productivity • 4-color printing + black (<i>pictor2</i>) • Printing in gray scale (<i>pictor2black</i>)
<p>LASER</p> 	 <p>pulsar LASER MARKING BY MP</p>	<ul style="list-style-type: none"> • Permanent, durable labeling via carbonization • Possible to process a range of different materials • High productivity and labeling+speeds • Minimal operating costs • No-touch labeling • Minimal maintenance required • No consumables used
<p>THERMAL TRANSFER</p> 	 <p>pavonis THERMO MARKING BY MP</p> <p>A4+M / EOS1</p>	<ul style="list-style-type: none"> • Large output volume • Outstanding print quality • High-durability lettering • Easy handling • Large label range • USB and Ethernet ports • Miscellaneous accessories (e.g. cutting equipment)
<p>PLOTTING / ENGRAVING OPTION</p>  	 <p>MVPS-G3 SERIES</p>	<ul style="list-style-type: none"> • Suitable for universal use • High-quality lettering • Labeling of electric, pneumatic and mechanical components • All plotters in the MVPS-G3 series can be converted to engraving machines • Simple conversion • Extensive selection of engraving materials
<p>ENGRAVING</p> 	 <p>CAM 100 / 200 + MGS 50/60</p>	<ul style="list-style-type: none"> • Product range offers choice of engraving machines • Broad graver and cutter program range • A wide range of engraving materials to choose from • Two-ply and multi-layer materials • Broad selection of plastic and metal labels

MATERIAL

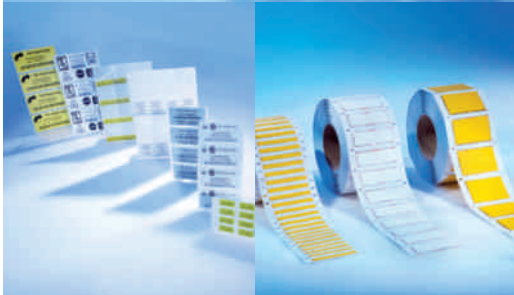
APPLICATION



- Polycarbonate
- MonoMatt
- Labels (in conjunction with a label plate)



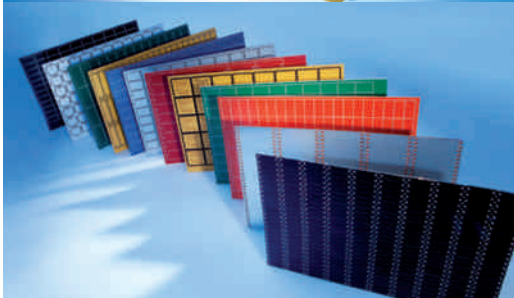
- Polycarbonate
- MonoMatt
- Stainless steel
- Anodized aluminum
- Polypropylene



- PAVONIS**
- Polyester-, fabric labels
 - Self-laminating vinyl labels
- EOS1 / A4+M**
- Labels, strips
 - Heat-shrink labels



- Polycarbonate
- Wide range of label materials
- DuoMatt



- DuoMatt
- Anodized aluminum
- TrioMatt
- AluMatt



Service



TAILORED LABELING SERVICES

Murrplastik Systemtechnik supports companies with a hugely diverse range of labeling requirements. We have therefore seen Companies often pay less by outsourcing than if they do their labeling in-house.

The reasons for this are obvious. A company that, for example, develops and installs control units before also putting them into service is usually under a lot of financial and time pressure to provide the necessary equipment and training for employees. Apart from that, the labeling requirements are subject to continuous changes.

HUGE QUANTITIES IN NO TIME AT ALL

Our state-of-the-art equipment this sentence does not make sense make it possible for us to inscribe large quantities of labels with shortest possible lead times.

Full service

Murrplastik's product and services program includes a vast standard pre-fabricated product range, e.g. pre-fitted sleeves, label holders with cable ties, project-specific packaging, or simply the inscribed labels. Just as the customer wishes.

Exceptional characteristics...

... for high standards. We offer these diverse types of labeling on various materials, tailored to your special application requirements: Engraving, printing (thermal transfer / inkjet), plotting and laser inscribing.

FOR ANY APPLICATION

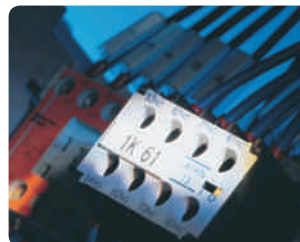
SINGLE WIRES



LINES



SWITCHGEAR



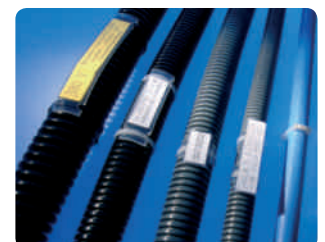
TERMINALS



ID PLATES



CONDUITS





INDIVIDUALIZED MURRPLASTIK LABELING- & FITTING SERVICE

Easy and secure data exchange

Just send your labeling data per email, or the medium of your choice, to our service center.

Your data will be processed without delay, converted, and can be archived by Murrplastik for two years for subsequent projects upon your request.

Data format options are virtually unlimited:

ASCII format, MS-Office application files (i.e. Excel), as well as data from CAD / CAE programs, or from the Murrplastik ACS labeling software.

LABELING PROCEDURES

- Engraving
- Thermal transfer printing
- Plotting
- Laser inscription
- Inkjet printing

LABEL HOLDERS WITH CABLE TIES



PRE-FITTED SLEEVES



PROJECT-SPECIFIC PACKAGING



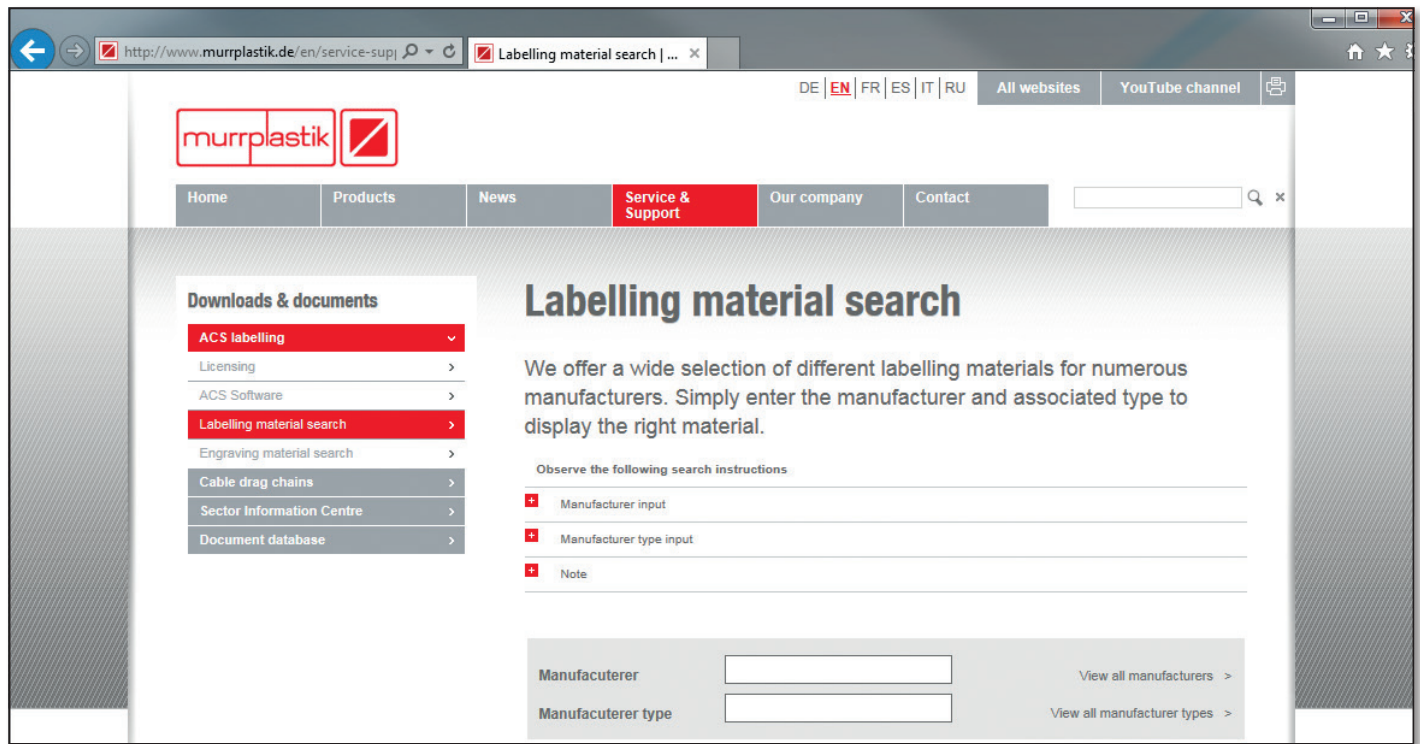


Online labeling material search

WHICH LABELING SYSTEM FOR WHICH APPLICATION?

Our online labeling material search will provide answers to this and many other questions. Go to the "Service & Support/ACS Labeling" menu to find a number of well know-known and

proven solutions for a variety of applications. What if you cannot find your answer? Direct a query to our ACS support.



FINDING THE RIGHT COMBINATION

You know the manufacturer and the manufacturers' type designations to be inscribed. This is how you find the matching labeling materials:

Enter the first few letters of the manufacturer's name into the search mask. The name will auto-complete from the list of known manufacturers. Or you may preview the list of known manufacturers.

You can then enter the first few characters of the manufacturer's type designation into the input field below. The system will again try to auto-complete the name from a list of known types. Again, you may of course view a list of all currently known types of the respective manufacturer first.

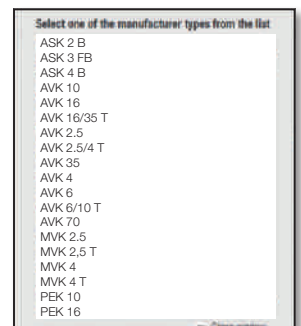
Should you enter a manufacturer or a type designation that is unknown to the system at the time of your search, a search mask for ACS Service will automatically open. We will then immediately propose an appropriate combination for your application.

WHAT ARE THE MANUFACTURERS/MANUFACTURER TYPES:

INFORMATION ABOUT THE MANUFACTURERS



WHICH DEVICE TYPES ARE AVAILABLE PER MANUFACTURER?

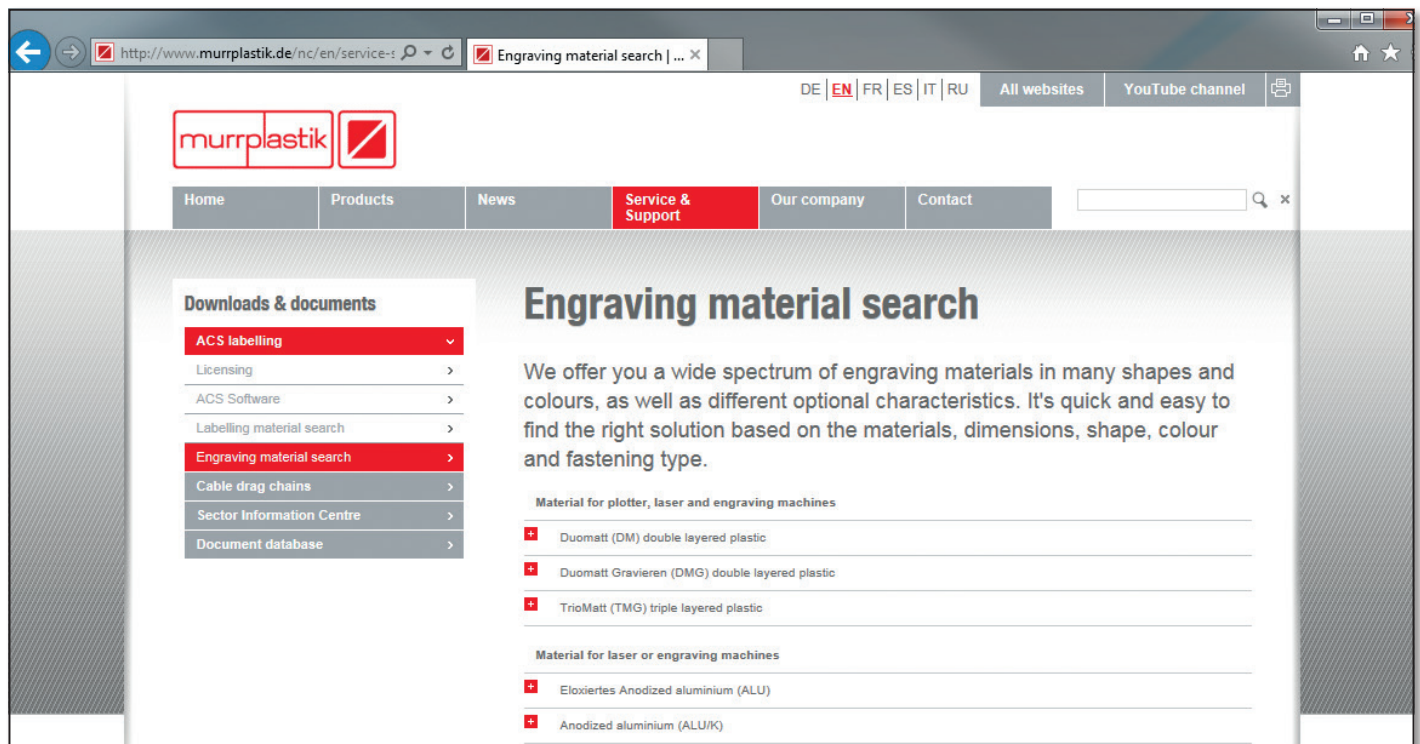


Online engraving material search

SEARCH AND FIND

What sizes, colors, shapes and application options are available?

Go to the "Service & Support/ACS Labeling" menu at our website, www.murplastik.de, to find a number of well know-known and proven solutions for a variety of applications. What if you cannot find your answer? Direct a query to our ACS support.



JUST A FEW CLICKS TO REACH YOUR GOAL.

The more detailed your description of the labeling material, the shorter and more precise your search results will be.

Two input masks are available to select your search criteria: The standard search and the advanced (expert) search.

The standard search offers input options for:

- Material type
- Model: Length, width and diameter

The advanced or expert search offers additional input options for:

- Selection of surface and font color
- Selection of corner options (with/without radius etc.)
- Selection of the adhesive type/adhesive strength
- Selection of hole patterns and type, as well as material thickness

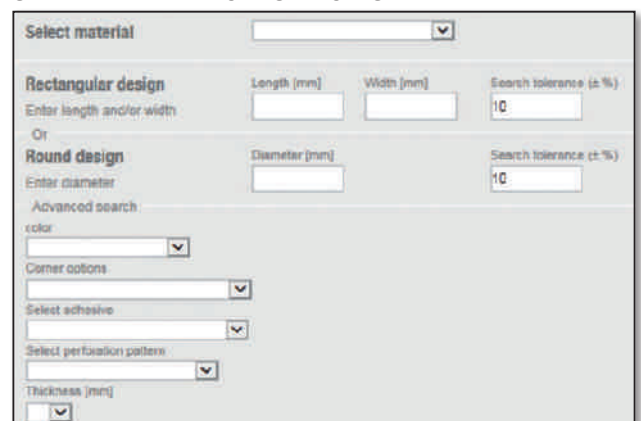
You may tweak the results further by changing the search tolerances. This way you are able to produce additional results, which may not fit your dimension entries exactly. Should you not be able to produce a solution for your requirements, a query form for ACS Service will automatically open for you.

CONFIGURABLE SEARCH PREFERENCES

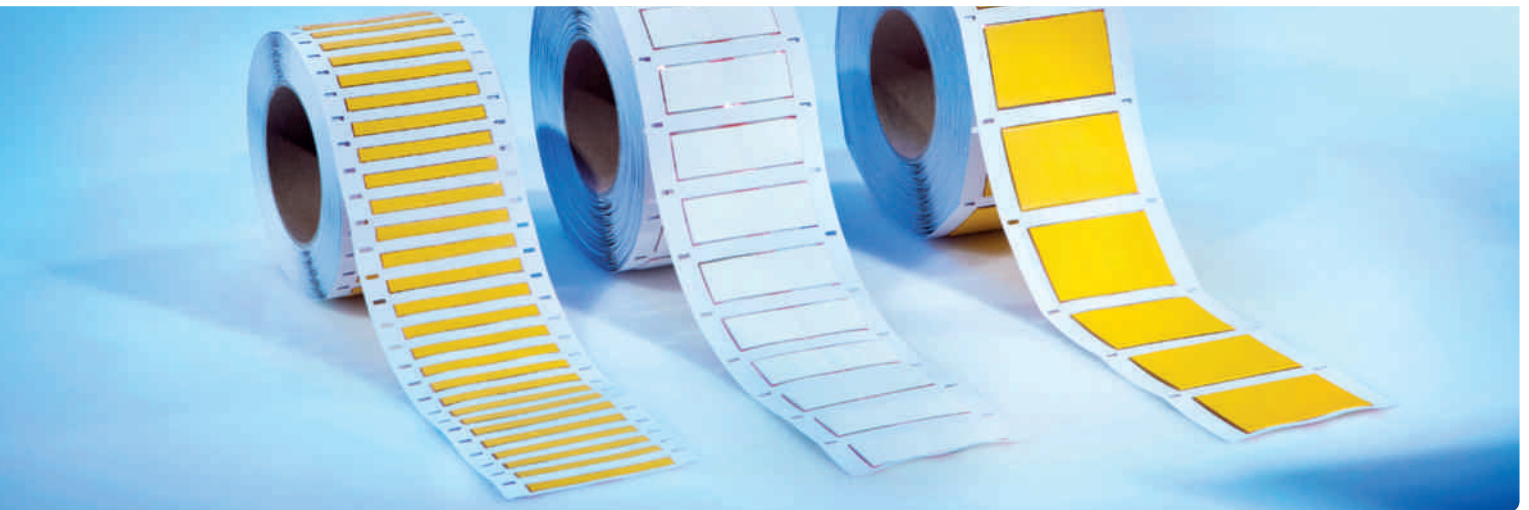
INFORMATION ABOUT THE ENGRAVING MATERIALS



SIMPLE AND ADVANCED SEARCHES



Heat-shrink labels



RAILWAY TECHNOLOGY SHRINK RANGES AND ECO HEAT-SHRINK CONDUITS

The shrink range is the maximum allowable change in diameter of a shrink hose under the effect of heat. The 80:20 rule applies for the proper selection of the heat-shrink conduit. The shrink rate is supposed to be at least 20% but not more than 80%. The maximum and recommended shrink ranges are listed in the table.

HEAT-SHRINK RANGES OVERVIEW

Description	flat area (in mm approx.):	Maximum shrink range		recommended shrink range	
		max. Ø (mm):	min. Ø (mm):	max. Ø -20% (mm):	min. Ø -20% (mm):
ST - 3.2	6.2	3.2	1.6	2.6	1.9
ST - 4.8	8.5	4.8	2.4	3.8	2.9
ST - 12.7	20.9	12.7	6.4	10.2	7.6
ST - 25.4	40.5	25.4	12.7	20.3	15.2
ECO					
Description	flat area (in mm approx.):	max. Ø (mm):	min. Ø (mm):	max. Ø -20% (mm):	min. Ø -20% (mm):
ST - 2.4	4.2	2.4	0.8	1.9	1.0
ST - 3.2	5.6	3.2	1.1	2.6	1.3
ST - 4.8	7.6	4.8	1.6	3.8	1.9
ST - 6.4	10.7	6.4	2.1	5.1	2.6
ST - 9.5	15.1	9.5	3.2	7.6	3.8
ST - 12.7	20.9	12.7	4.2	10.2	5.1
ST - 19.0	30.9	19.0	6.3	15.2	7.6
ST - 25.4	40.5	25.4	8.5	20.3	10.2
ST - 38.1	60.5	38.1	12.7	30.5	15.2

Railway technology
2:1

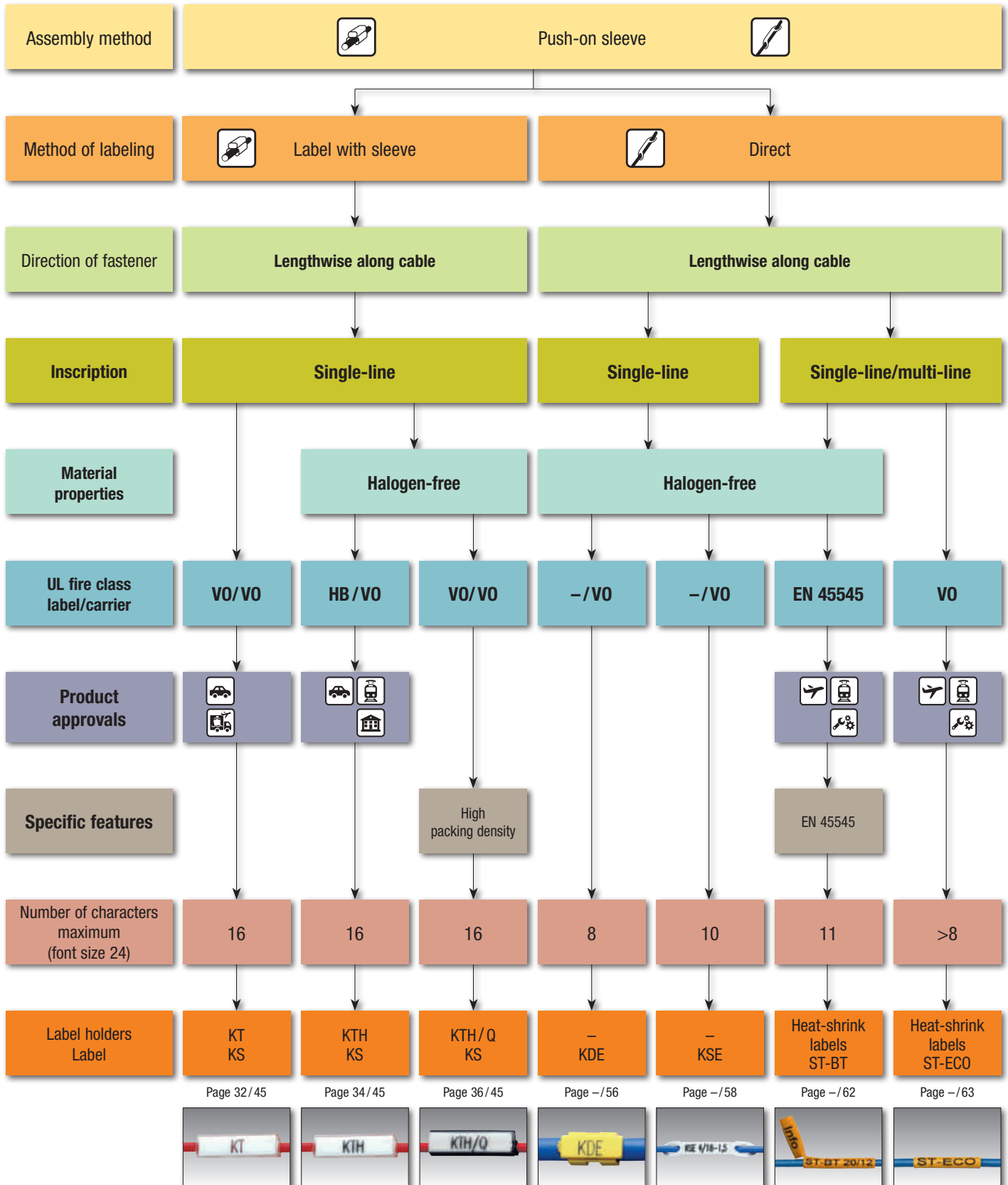
ECO
3:1

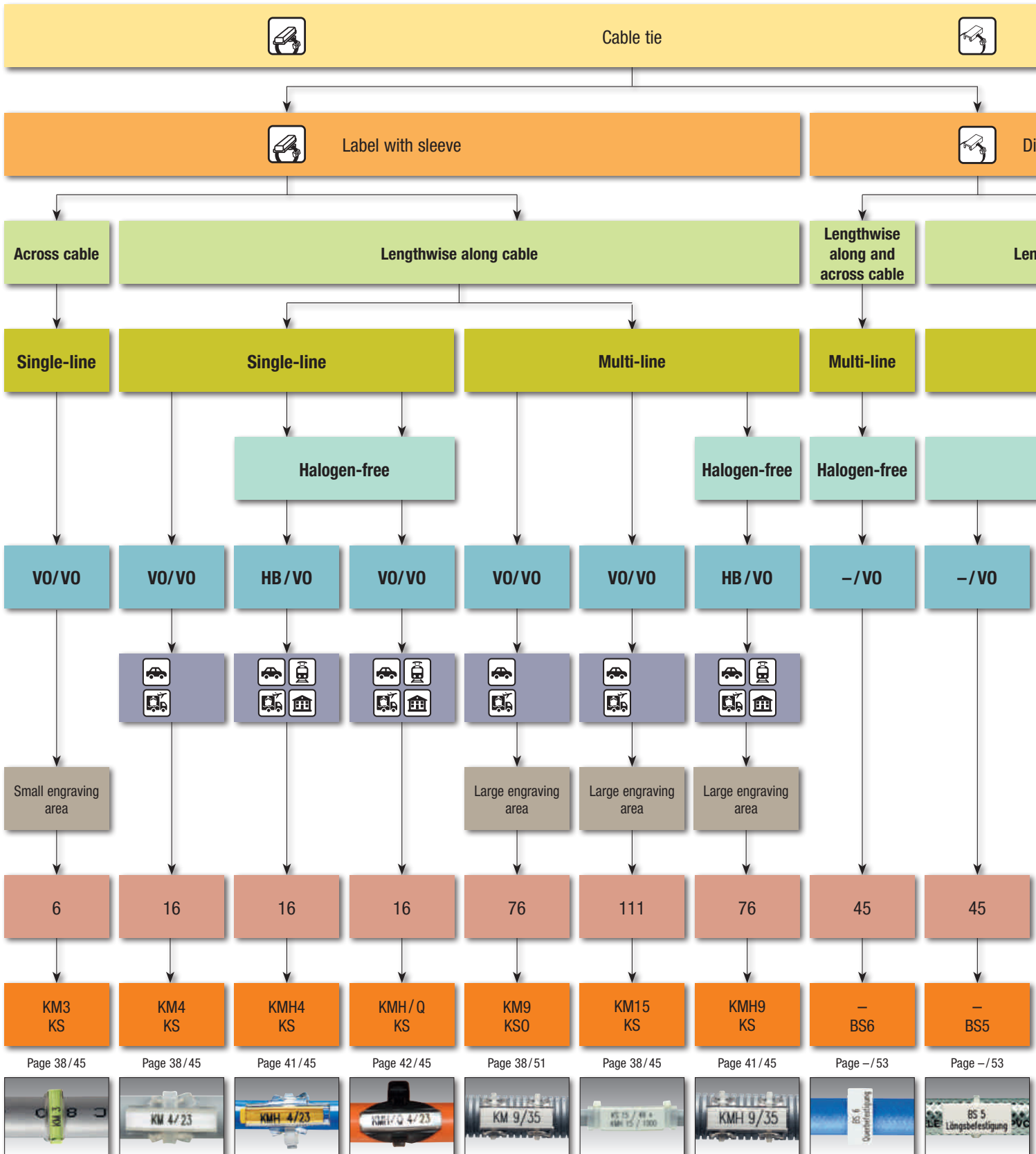
Notes

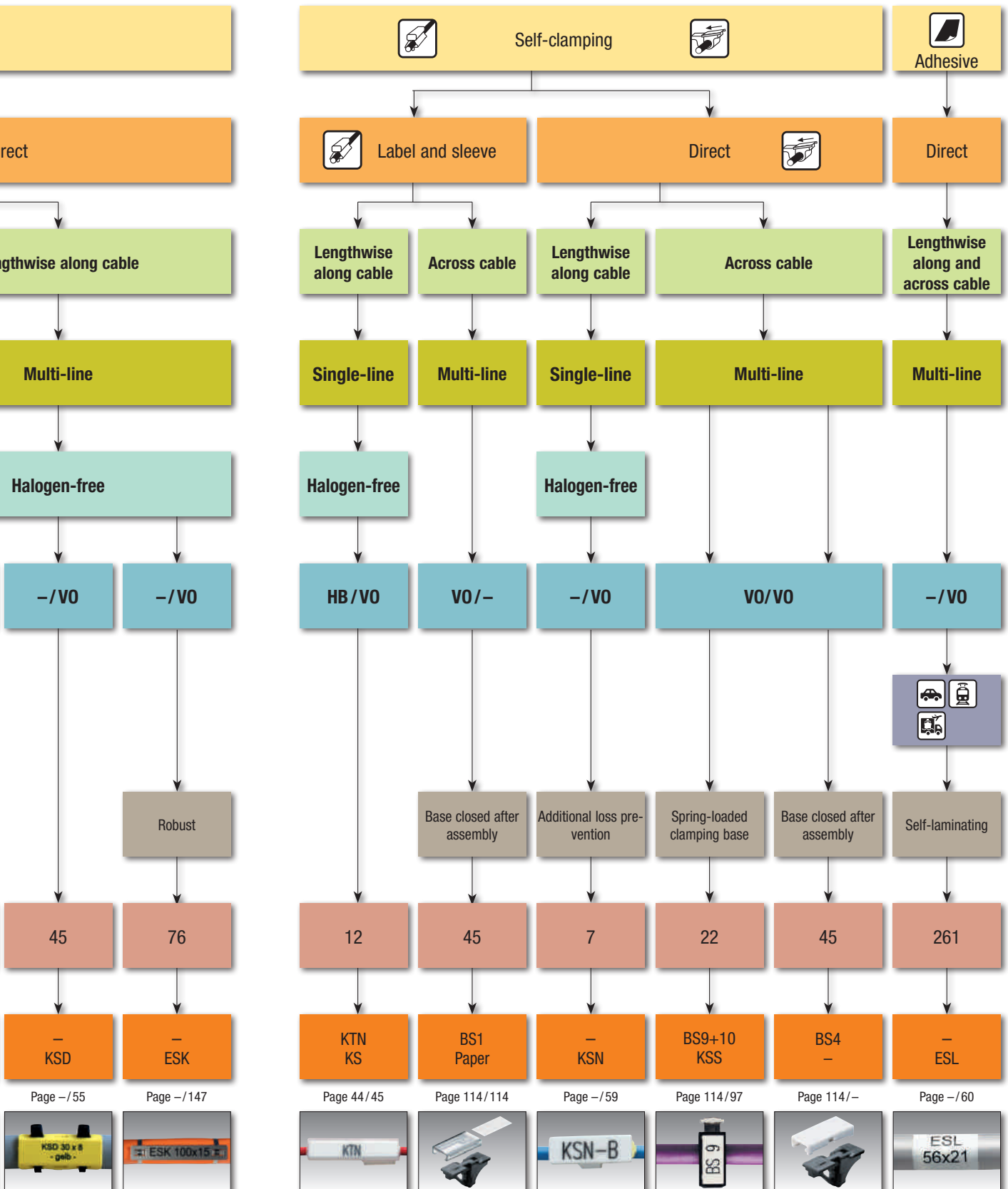


Single wire, cable, and conduit labeling

Selection table





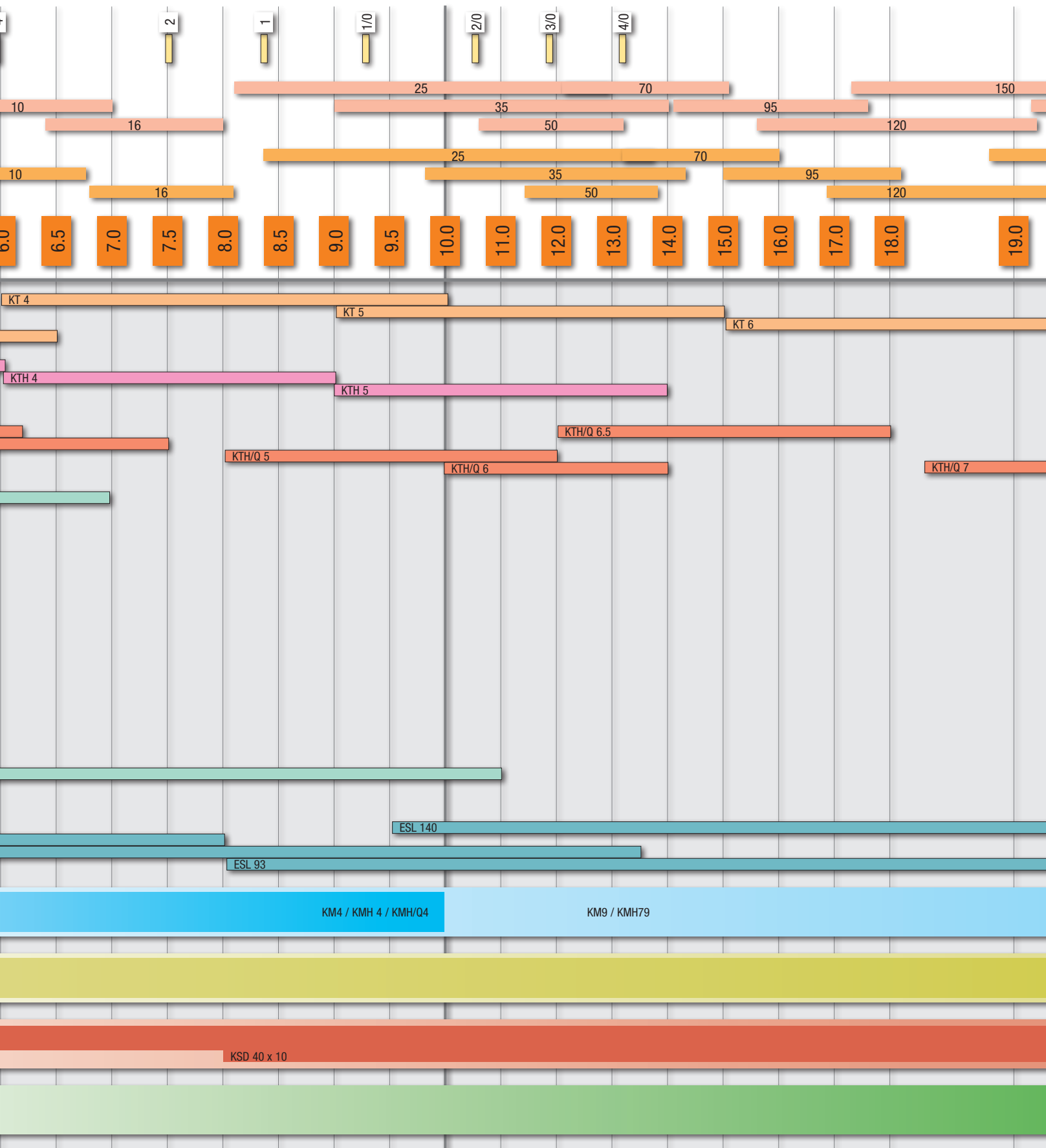


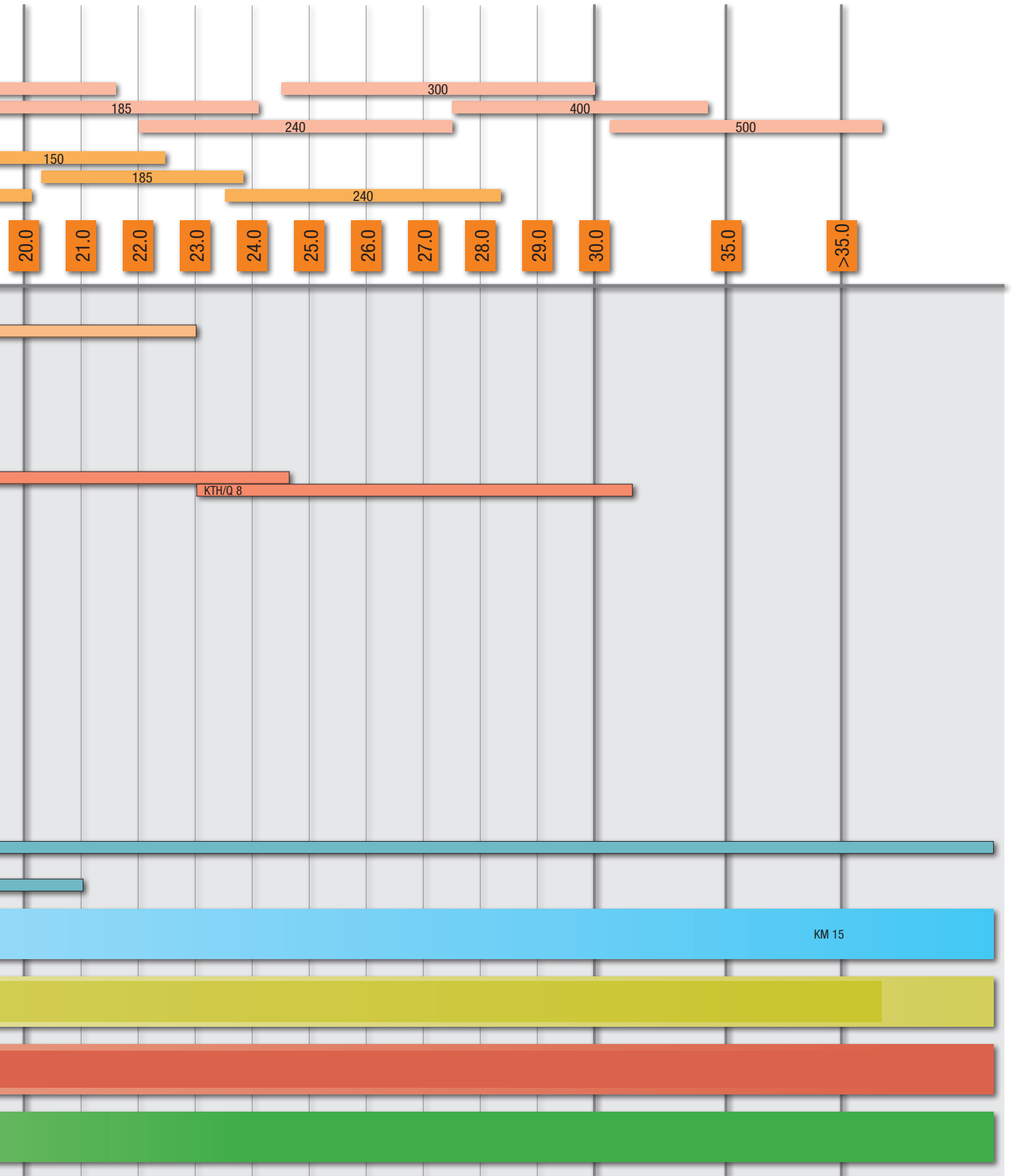


Single wire, cable, and conduit labeling

Assignment table

Nominal diameter AWG	26	24	22	20	18	16	14	12	10	8	6	4			
Nominal diameter in mm ² H05/07Z-U								0.5	0.75	1	1.5	2.5	4	6	
Nominal diameter in mm ² H05/07V-K								0.5	0.75	1	1.5	2.5	4	6	
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		
KT								KT 0	KT 1	KT 2	KT 3				
KTH								KTH 0	KTH 1	KTH 1.5	KTH 2		KTH 3		
KTH / Q								KTH/Q 0	KTH/Q 1	KTH/Q 1.5	KTH/Q 2		KTH/Q 3	KTH/Q 4	
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
KM / KMH / KMH/Q													Depends on the length of the cable ties (cable ties are max. 3 mm wide)		
BS 5 / BS 6													Depends on the length of the cable ties (cable ties are max. 3 mm wide)		
KSD													KSD 20 x 5	KSD 30 x 8	
ESK													Depends on the length of the cable ties (cable ties width is 3 mm max.)		

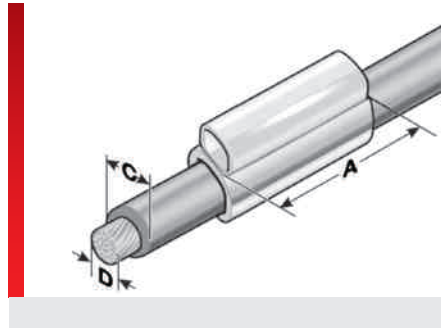
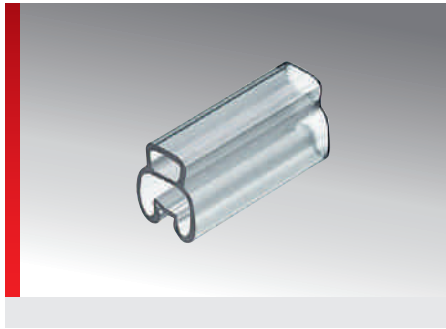






Single wire, cable, and conduit labeling

Label sleeves KT (standard sleeve)



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

High-quality, fully transparent label sleeves for labeling wires, cables and conduits. The KT label sleeves hold the BK indents KS labels.

- 7 sizes are available for wire cross sections from 0.01 – 4.72 inch² (AWG approx. 24 – 4/0).
- The sleeves come in different lengths.

The special KT 2/20x9 or KT 2/35x9 sleeves are for multi-wire labeling hold our type KSO labels.

SPECIFICATIONS

- 40.00 – 140.00 °F
- Polyvinyl chloride (PVC)
- V0
- Standard label sleeve
-

Type	Part number	Application range from - to Ø inch (C)	Wire cross section from - to inch ² (D)	Recommended label Plate	No. idents BK23 / BK30	Pack qty.
0.47 inch sleeve length (A), single line inscription						
KT 0/12	86201210	0.05 – 0.08	0.22 – 0.5	KS 4/12	5 / 4	2000.00
KT 1/12	86201212	0.07 – 0.1	0.5 – 1.0	KS 4/12	5 / 4	2000.00
KT 2/12	86201214	0.1 – 0.16	0.75 – 2.5	KS 4/12	5 / 4	2000.00
KT 3/12	86201216	0.16 – 0.26	2.5 – 6.0	KS 4/12	5 / 4	1000.00
KT 4/12	86201218	0.24 – 0.39	10.0 – 25.0	KS 4/12	5 / 4	1000.00
KT 5/12	86201220	0.35 – 0.59	25.0 – 50.0	KS 4/12	5 / 4	1000.00
KT 6/12	86201222	0.59 – 0.91	50.0 – 120.0	KS 4/12	5 / 4	500.00
0.71 inch sleeve length (A), single line inscription						
KT 0/18	86201810	0.05 – 0.08	0.22 – 0.5	KS 4/18	7 / 6	2000.00
KT 1/18	86201812	0.07 – 0.1	0.5 – 1.0	KS 4/18	7 / 6	2000.00
KT 2/18	86201814	0.1 – 0.16	0.75 – 2.5	KS 4/18	7 / 6	2000.00
KT 3/18	86201816	0.16 – 0.26	2.5 – 6.0	KS 4/18	7 / 6	1000.00
KT 4/18	86201818	0.24 – 0.39	10.0 – 25.0	KS 4/18	7 / 6	1000.00
KT 5/18	86201820	0.35 – 0.59	25.0 – 50.0	KS 4/18	7 / 6	750.00
KT 6/18	86201822	0.59 – 0.91	50.0 – 120.0	KS 4/18	7 / 6	300.00
0.91 inch sleeve length (A), single line inscription						
KT 0/23	86202310	0.05 – 0.08	0.22 – 0.5	KS 4/23	10 / 7	2000.00
KT 1/23	86202312	0.07 – 0.1	0.5 – 1.0	KS 4/23	10 / 7	2000.00
KT 2/23	86202314	0.1 – 0.16	0.75 – 2.5	KS 4/23	10 / 7	1000.00

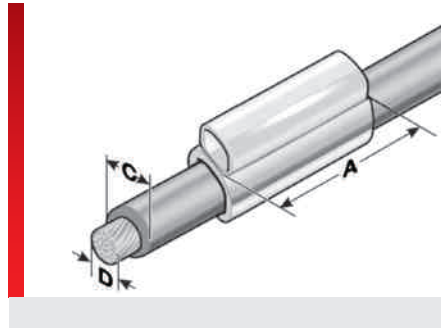
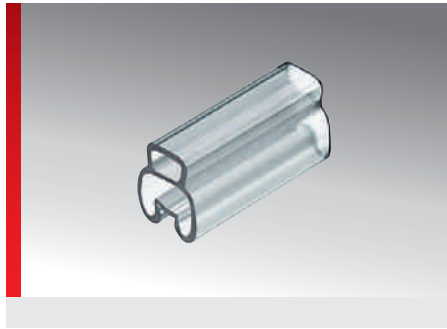
Label sleeves KT (standard sleeve) (Continued...)

Type	Part number	Application range from - to Ø inch (C)	Wire cross section from - to inch ² (D)	Recommended label Plate	No. idents BK23 / BK30	Pack qty.
KT 3/23	86202316	0.16 – 0.26	2.5 – 6.0	KS 4/23	10 / 7	1000.00
KT 4/23	86202318	0.24 – 0.39	10.0 – 25.0	KS 4/23	10 / 7	1000.00
KT 5/23	86202320	0.35 – 0.59	25.0 – 50.0	KS 4/23	10 / 7	500.00
KT 6/23	86202322	0.59 – 0.91	50.0 – 120.0	KS 4/23	10 / 7	250.00
1.18 inch sleeve length (A), single line inscription						
KT 0/30	86203010	0.05 – 0.08	0.22 – 0.5	KS 4/30	13 / 10	1000.00
KT 1/30	86203012	0.07 – 0.1	0.5 – 1.0	KS 4/30	13 / 10	1500.00
KT 2/30	86203014	0.1 – 0.16	0.75 – 2.5	KS 4/30	13 / 10	1000.00
KT 3/30	86203016	0.16 – 0.26	2.5 – 6.0	KS 4/30	13 / 10	1000.00
KT 4/30	86203018	0.24 – 0.39	10.0 – 25.0	KS 4/30	13 / 10	500.00
KT 5/30	86203020	0.35 – 0.59	25.0 – 50.0	KS 4/30	13 / 10	500.00
KT 6/30	86203022	0.59 – 0.91	50.0 – 120.0	KS 4/30	13 / 10	200.00
0.79 inch sleeve length (A), single and multi-line inscription						
KT 2/20x9	86202050	0.1 – 0.16	0.75 – 2.5	KSO 20x9		1000.00
1.38 inch sleeve length (A), single and multi-line inscription						
KT 2/35x9	86203550	0.1 – 0.16	0.75 – 2.5	KSO 35x9		500.00
2.76 inch sleeve length (A), single line inscription						
KT 2/70	86207014	0.1 – 0.16	0.75 – 2.5	KS 4/30-70	30 / 23	500.00
KT 3/70	86207016	0.16 – 0.26	2.5 – 6.0	KS 4/30-70	30 / 23	400.00

* Single wire, type H05/07V-K

Single wire, cable, and conduit labeling

Label sleeves KTH (halogen-free)



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

High-quality, fully transparent, halogen-free label sleeves for labeling wires, cables and conduits. The KT label sleeves hold the BK indents KS labels.

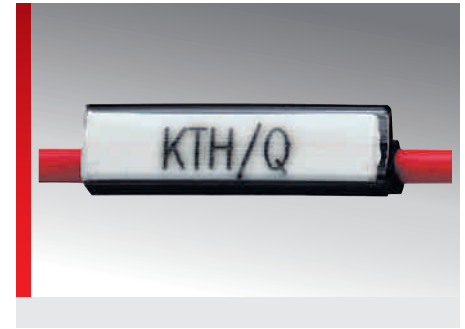
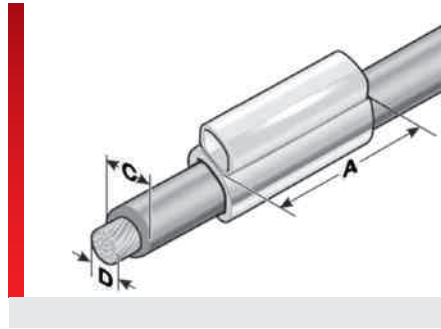
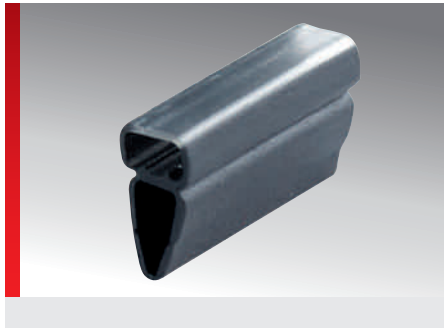
- Wire cross sections from 0.01 – 1.38 inch² (AWG approx. 24 – 2) are available.
- The sleeves come in different lengths.

SPECIFICATIONS

- 40.00 – 176.00 °F
- EVA
- HB
-
-

Type	Part number	Application range from - to Ø inch (C)	Wire cross section from - to inch ² (D)	Recommended label Plate	No. idents BK23 / BK30	Pack qty.
0.47 inch sleeve length (A), single line inscription						
KTH 0/12	86221210	0.05 – 0.08	0.5	KS 4/12	5 / 4	2000.00
KTH 1/12	86221212	0.07 – 0.09	0.5	KS 4/12	5 / 4	2000.00
KTH 2/12	86221214	0.1 – 0.13	0.75 – 2.5	KS 4/12	5 / 4	2000.00
KTH 3/12	86221216	0.14 – 0.24	2.5 – 6.0	KS 4/12	5 / 4	1000.00
KTH 4/12	86221218	0.24 – 0.35	10.0 – 16.0	KS 4/12	5 / 4	1000.00
0.71 inch sleeve length (A), single line inscription						
KTH 0/18	86221810	0.05 – 0.08	0.5	KS 4/18	7 / 6	2000.00
KTH 1/18	86221812	0.07 – 0.09	0.5	KS 4/18	7 / 6	2000.00
KTH 2/18	86221814	0.1 – 0.13	0.75 – 2.5	KS 4/18	7 / 6	2000.00
KTH 3/18	86221816	0.14 – 0.24	2.5 – 6.0	KS 4/18	7 / 6	1000.00
KTH 4/18	86221818	0.24 – 0.35	10.0 – 16.0	KS 4/18	7 / 6	1000.00
KTH 5/18	86221820	0.35 – 0.55	25.0 – 35.0	KS 4/18	7 / 6	500.00
0.91 inch sleeve length (A), single line inscription						
KTH 0/23	86222310	0.05 – 0.08	0.5	KS 4/23	10 / 7	1000.00
KTH 1/23	86222312	0.07 – 0.09	0.5	KS 4/23	10 / 7	2000.00
KTH 2/23	86222314	0.1 – 0.13	0.75 – 2.5	KS 4/23	10 / 7	1000.00
KTH 3/23	86222316	0.14 – 0.24	2.5 – 6.0	KS 4/23	10 / 7	1000.00
KTH 4/23	86222318	0.24 – 0.35	10.0 – 16.0	KS 4/23	10 / 7	1000.00

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



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

High-quality, halogen-free two-part label sleeves for the highest requirements. The sleeve geometry causes a minimum increase in cable diameter. The trapezoidal design makes for rapid and simple installation.

KTH/Q label sleeves hold the BK idents and type KS labels.

- Wire cross sections from 0.01 – 9.45 inch² (AWG 26 – 500 MCM) are available.
- The sleeves come in different lengths.

SPECIFICATIONS

- 40.00 – 320.00 °F
- TPU
- V0
- Halogen-free



Type	Part number	Application range from - to Ø inch (C)	Wire cross section from - to inch ² (D)	Recommended label Plate	No. idents BK23 / BK30	Pack qty.
0.47 inch sleeve length (A), single line inscription						
KTH/Q 0/12	86222808	0.03 – 0.06	0.5	KS 4/12	5 / 4	2000.00
KTH/Q 1/12	86222810	0.06 – 0.09	0.5	KS 4/12	5 / 4	2000.00
KTH/Q 1.5/12	86222811	0.06 – 0.13	0.5 – 0.75	KS 4/12	5 / 4	2000.00
KTH/Q 2/12	86222812	0.09 – 0.18	0.75 – 2.5	KS 4/12	5 / 4	2000.00
KTH/Q 3/12	86222814	0.15 – 0.24	2.5 – 6.0	KS 4/12	5 / 4	1000.00
KTH/Q 4/12	86222817	0.22 – 0.39	10.0 – 25.0	KS 4/12	5 / 4	1000.00
KTH/Q 5/12	86222818	0.31 – 0.47	25.0 – 35.0	KS 4/12	5 / 4	500.00
KTH/Q 6/12	86222820	0.39 – 0.55	50.0	KS 4/12	5 / 4	500.00
KTH/Q 6.5/12	86222821	0.47 – 0.71	70.0 – 95.0	KS 4/12	5 / 4	500.00
0.71 inch sleeve length (A), single line inscription						
KTH/Q 0/18	86223008	0.03 – 0.06	0.5	KS 4/18	7 / 6	2000.00
KTH/Q 1/18	86223010	0.06 – 0.09	0.5	KS 4/18	7 / 6	2000.00
KTH/Q 1.5/18	86223011	0.06 – 0.13	0.5 – 0.75	KS 4/18	7 / 6	2000.00
KTH/Q 2/18	86223012	0.09 – 0.18	0.75 – 2.5	KS 4/18	7 / 6	2000.00
KTH/Q 3/18	86223014	0.15 – 0.24	2.5 – 6.0	KS 4/18	7 / 6	1000.00
KTH/Q 4/18	86223017	0.22 – 0.39	10.0 – 25.0	KS 4/18	7 / 6	1000.00
KTH/Q 5/18	86223018	0.31 – 0.47	25.0 – 35.0	KS 4/18	7 / 6	500.00
KTH/Q 6/18	86223020	0.39 – 0.55	50.0	KS 4/18	7 / 6	500.00
KTH/Q 6.5/18	86223021	0.47 – 0.71	70.0 – 95.0	KS 4/18	7 / 6	500.00
KTH/Q 7/18	86223022	0.71 – 0.94	120.0 – 150.0	KS 4/18	7 / 6	250.00

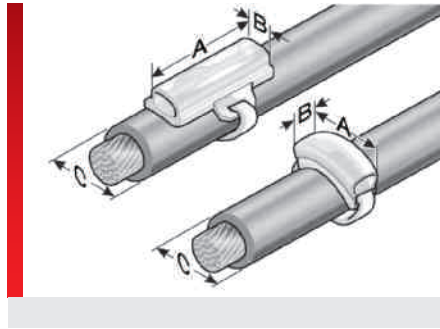
Label sleeves KTH/Q (halogen-free/high packing density) (Continued...)

Type	Part number	Application range from - to Ø inch (C)	Wire cross section from - to inch ² (D)	Recommended label Plate	No. idents BK23 / BK30	Pack qty.
KTH/Q 8/18	86223024	0.91 – 1.18	185.0 – 240.0	KS 4/18	7 / 6	250.00
0.91 inch sleeve length (A), single line inscription						
KTH/Q 0/23	86223208	0.03 – 0.06	0.5	KS 4/23	10 / 7	2000.00
KTH/Q 1/23	86223210	0.06 – 0.09	0.5	KS 4/23	10 / 7	2000.00
KTH/Q 1.5/23	86223211	0.06 – 0.13	0.5 – 0.75	KS 4/23	10 / 7	2000.00
KTH/Q 2/23	86223212	0.09 – 0.18	0.75 – 2.5	KS 4/23	10 / 7	2000.00
KTH/Q 3/23	86223214	0.15 – 0.24	2.5 – 6.0	KS 4/23	10 / 7	1000.00
KTH/Q 4/23	86223217	0.22 – 0.39	10.0 – 25.0	KS 4/23	10 / 7	1000.00
KTH/Q 5/23	86223218	0.31 – 0.47	25.0 – 35.0	KS 4/23	10 / 7	500.00
KTH/Q 6/23	86223220	0.39 – 0.55	50.0	KS 4/23	10 / 7	500.00
KTH/Q 6.5/23	86223221	0.47 – 0.71	70.0 – 95.0	KS 4/23	10 / 7	500.00
KTH/Q 7/23	86223222	0.71 – 0.94	120.0 – 150.0	KS 4/23	10 / 7	250.00
KTH/Q 8/23	86223224	0.91 – 1.18	185.0 – 240.0	KS 4/23	10 / 7	250.00
1.18 inch sleeve length (A), single line inscription						
KTH/Q 0/30	86223408	0.03 – 0.06	0.5	KS 4/30	13 / 10	2000.00
KTH/Q 1/30	86223410	0.06 – 0.09	0.5	KS 4/30	13 / 10	2000.00
KTH/Q 1.5/30	86223411	0.06 – 0.13	0.5 – 0.75	KS 4/30	13 / 10	2000.00
KTH/Q 2/30	86223412	0.09 – 0.18	0.75 – 2.5	KS 4/30	13 / 10	2000.00
KTH/Q 3/30	86223414	0.15 – 0.24	2.5 – 6.0	KS 4/30	13 / 10	1000.00
KTH/Q 4/30	86223417	0.22 – 0.39	10.0 – 25.0	KS 4/30	13 / 10	1000.00
KTH/Q 5/30	86223418	0.31 – 0.47	25.0 – 35.0	KS 4/30	13 / 10	500.00
KTH/Q 6/30	86223420	0.39 – 0.55	50.0	KS 4/30	13 / 10	500.00
KTH/Q 6.5/30	86223421	0.47 – 0.71	70.0 – 95.0	KS 4/30	13 / 10	500.00
KTH/Q 7/30	86223422	0.71 – 0.94	120.0 – 150.0	KS 4/30	13 / 10	250.00
KTH/Q 8/30	86223424	0.91 – 1.18	185.0 – 240.0	KS 4/30	13 / 10	200.00
1.18 inch sleeve length (A), notched						
KTH/Q 1/30A	86223482	0.06 – 0.09	0.5	KS 4/30	13 / 10	2000.00
KTH/Q 2/30A	86223484	0.09 – 0.18	0.75 – 2.5	KS 4/30	13 / 10	2000.00
KTH/Q 3/30A	86223486	0.15 – 0.23	2.5 – 6.0	KS 4/30	13 / 10	500.00

* Single wire, type H05/07V-K

Single wire, cable, and conduit labeling

Label holder KM (standard holder)



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

Label holder for wire, cable and conduit labels. KM label holder accommodate BK idents and type KS as well as type KSO labels.

- The label holders are fixed in place with cable ties.

SPECIFICATIONS

- 40.00 – 140.00 °F
- Polyvinyl chloride (PVC)
- V0
- Standard label holder
-

Type	Part number	Color	Length inch (A)	Width inch (B)	Recommended label Plate	No. idents BK23 / BK30	Cable tie Max. width inch	Recommended Min. diameter inch (C)	Pack qty.
Labeling across the line/the hose, single line of print									
KM 3	86321018	Transparent	0.63	0.16	KS 4/12	6 / 5	0.20	0.20	2000.00
Labeling lengthwise along the cable/conduit, one line of print									
KM 4/12	86321015	Transparent	0.47	0.16	KS 4/x	5 / 3	0.20	0.20	2000.00
KM 4/18	86321019	Transparent	0.71	0.16	KS 4/x	7 / 6	0.20	0.20	2000.00
KM 4/23	86321020	Transparent	0.91	0.16	KS 4/x	10 / 7	0.20	0.20	1000.00
KM 4/31	86321024	Transparent	1.22	0.16	KS 4/x	13 / 10	0.20	0.20	1000.00
Labeling lengthwise along the cable/conduit, one or more lines of print									
KM 9/20	86321040	Transparent	0.79	0.35	KSO 20x9		0.20	0.39	1000.00
KM 9/35	86321042	Transparent	1.38	0.35	KSO 35x9		0.20	0.39	500.00
KM 9/70	86321045	Transparent	2.76	0.35			0.20	0.39	250.00
KM 15/27	86321056	Transparent	1.06	0.59	KS 15/27		0.20	0.55	500.00
KM 15/49	86321058	Transparent	1.93	0.59	KS 15/49		0.20	0.55	250.00
KM 15/67	86321060	Transparent	2.64	0.59	KS 15/67		0.20	0.55	125.00
Pre-configured label holder, equipped with KB 55 cable ties									
KKM 4/12	86321048	Transparent	0.47	0.16	KS 4/x	5 / 4	0.20	0.20	250.00
KKM 4/23	86321050	Transparent	0.91	0.16	KS 4/x	10 / 7	0.20	0.20	250.00
KKM 9/20	86321052	Transparent	0.79	0.35	KSO 20x9		0.20	0.39	250.00

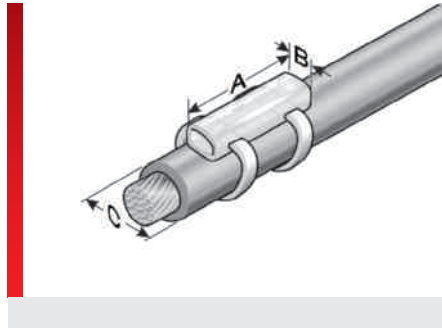
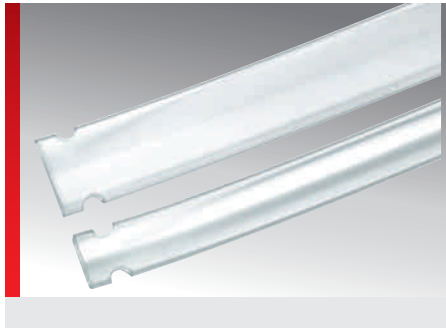
Label holder KM (standard holder) (Continued...)

Type	Part number	Color	Length inch (A)	Width inch (B)	Recommended label Plate	No. idents BK23 / BK30	Cable tie Max. width inch	Recommended Min. diameter inch (C)	Pack qty.
KKM 9/35	86321054	Transparent	1.38	0.35	KSO 35x9		0.20	0.39	250.00

The correct size KB cable ties are listed in the accessories in the KDH catalog.

Single wire, cable, and conduit labeling

KM label holder (standard holder, variable length)



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

Individual label holders for wire, cable and conduit labels. KM label holders accommodate BK idents and type KS as well as type KSO labels.

The label holders are fixed in place with cable ties.

The KM-T10 multi-purpose tool can be used to cut the label holders to convenient lengths (A) for specific purposes. The tool can process KM 9 and KM 15 materials without resetting. The ACS special function tool KM-T10 is listed in „accessories“.

SPECIFICATIONS

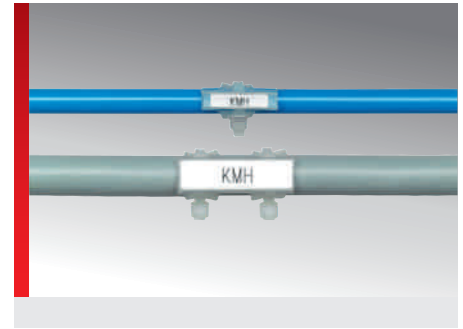
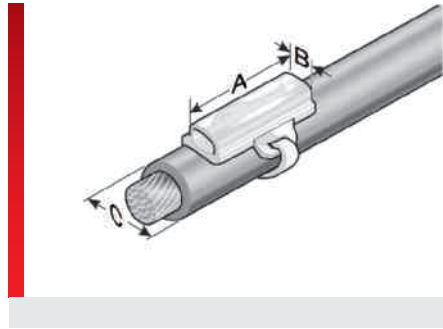
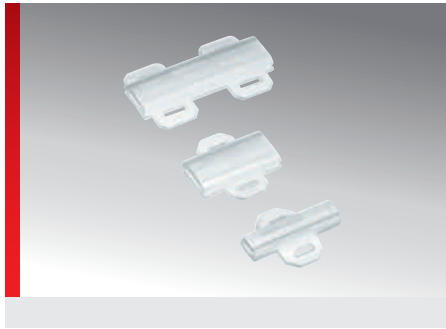
- 40.00 – 140.00 °F
- Polyvinyl chloride (PVC)
- V0
- Individual length



Type	Part number	Color	Length inch	Width inch (B)	Recommended label Plate	Cable tie Max. width inch	Recommended Min. diameter inch (C)	Pack qty.
Labeling lengthwise along the cable/conduit, one or more lines of print								
KM 9/10000	86321070	Transparent	393.70	0.35	KSO 9/x	0.20	0.20	1.00
KM 15/10000	86321072	Transparent	393.70	0.59	KS 15/x	0.20	0.39	1.00

The correct size KB cable ties are listed in the accessories in the KDH catalog.

Label holder KMH (halogen-free)



PRODUCT INFORMATION

Halogen-free label holders for wire, cable and conduit labels. KMH label holders accommodate BK idents and type KS as well as type KSO labels.

- The label holders are fixed in place with cable ties.

SPECIFICATIONS

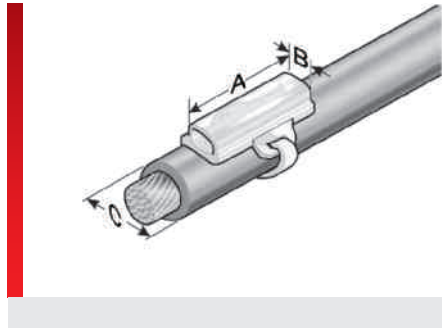
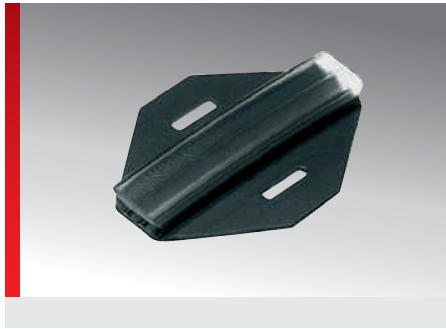
- 40.00 – 140.00 °F
- EVA
- HB
- Halogen-free
-

Type	Part number	Color	Length inch (A)	Width inch (B)	Recommended label Plate	No. idents BK23 / BK30	Cable tie Max. width inch	Recommended Min. diameter inch (C)	Pack qty.
Labeling lengthwise along the cable/conduit, one line of print									
KMH 4/23	86221010	Transparent	0.91	0.16	KS 4/x	10 / 7	0.20	0.20	1000.00
Labeling lengthwise along the cable/conduit, one or more lines of print									
KMH 9/20	86221012	Transparent	0.79	0.35	KSO 20x9		0.20	0.39	1000.00
KMH 9/35	86221016	Transparent	1.38	0.35	KSO 35x9		0.20	0.39	500.00
Pre-configured label holder, equipped with KB 55 cable ties									
KKMH 4/23	86221050	Transparent	0.91	0.16	KS 4/x	10 / 7	0.20	0.20	250.00

The correct size KB cable ties are listed in the accessories in the KDH catalog.

Single wire, cable, and conduit labeling

Label holder KMH/Q (halogen-free/high packing density)



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

High-quality, halogen-free, two-part label holders for the highest demands in the labeling of wires, cables and conduits. KMH/Q label holders for BK idents and type KS labels.

- The label holders are fixed in place with cable ties.
- It matches the appearance of label sleeve KTH/Q.

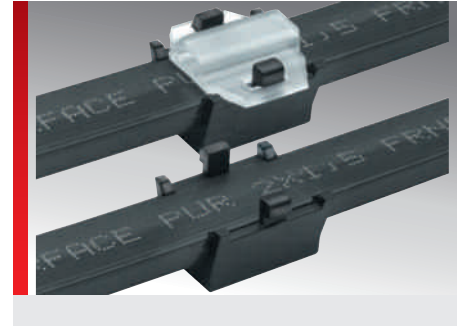
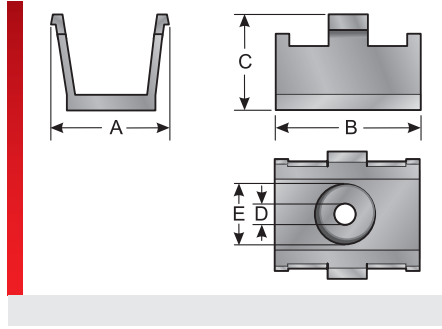
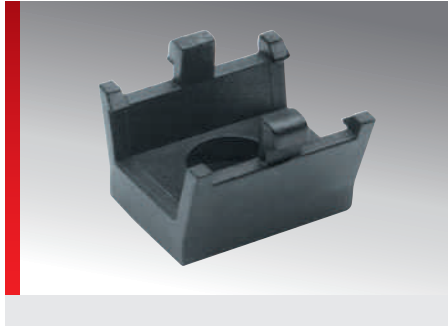
SPECIFICATIONS

	-40.00 – 320.00 °F
	TPU
	V0
	Halogen-free

Type	Part number	Length inch (A)	Width inch (B)	Recommended label Plate	No. idents BK23 / BK30	Cable tie Max. width inch	Recommended Min. diameter inch (C)	Pack qty.
Labeling lengthwise on the line/the conduit, single line of print (centered cable ties position)								
KMH/Q 4/23	86223610	0.91	0.16	KS 4/x	10 / 7	0.20	0.20	1000.00
Labeling lengthwise on the line/the conduit, single line of print (off center cable ties position)								
KMH/Q 4/30	86223612	1.18	0.16	KS 4/x	13 / 10	0.20	0.20	1000.00

The correct size KB cable ties are listed in the accessories in the KDH catalog.

Label holder ASI-Snap



PRODUCT INFORMATION

and middle of travel distance Simple screwing or riveting mounting clip, for fastening and routing the ASI bus cable. The glide rail is simply slid into the guide channel section.

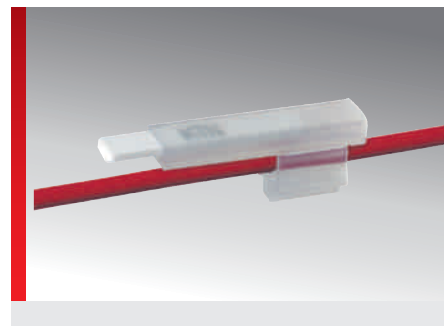
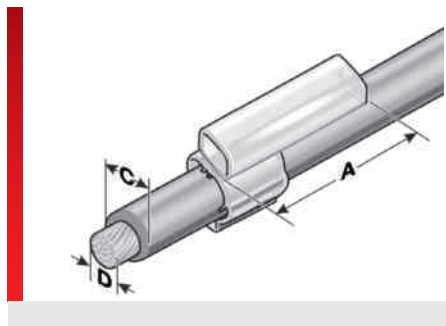
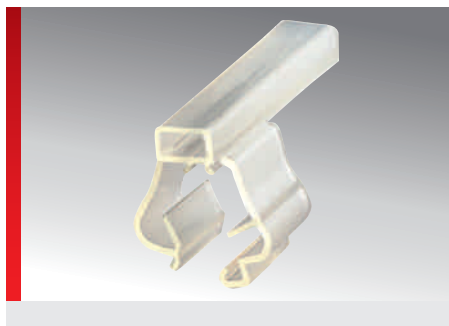
A KM 4/x series label can be latched into the mounting clip as bus cable labeling.

SPECIFICATIONS

- 40.00 – 176.00 °F
- Hard polyvinyl chloride (PVC)
- V0
- Laying and labeling for ASI bus cable

Type	Part number	Color	Recommended label holder	Length inch (A)	Width inch (B)	C inch	D inch	E inch	Pack qty.
ASI-Snap	86321062	black	KM 4/...	0.55	0.59	0.43	0.10	0.26	50.00

Label holder KTN (halogen-free)



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

Halogen-free label holders for subsequent labeling of single wires and cables. KTN label holders for BK idents and type KS labels.

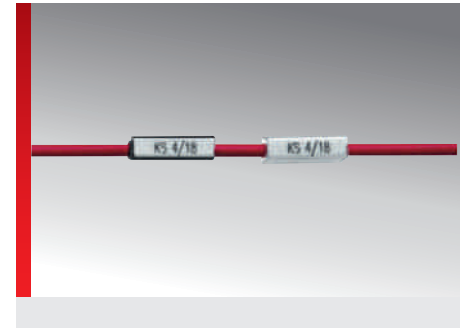
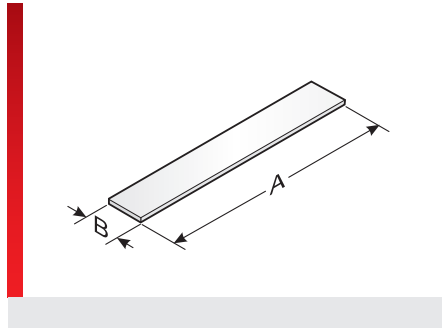
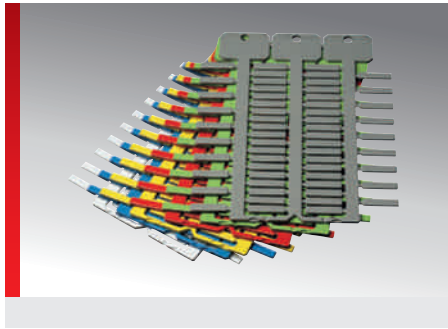
- The label holders are manually fastened.
- 5 versions are available for wire cross sections from 0.01 – 0.39 inch² (AWG 24 – 8).

SPECIFICATIONS

	-40.00 – 212.00 °F
	TPE
	HB
	Retrofitting

Type	Part number	Color	Application range from - to Ø inch (C)	Core cross section from - to inch ² (D)	Recommended label Plate	No. idents BK23 / BK30	Pack qty.
0.91 inch sleeve length (A), single line inscription							
KTN 1/23	86242310	Transparent	0.07 – 0.12	0.25 – 1.5	KS 4/23	10 / 7	1000.00
KTN 2/23	86242312	Transparent	0.1 – 0.14	0.75 – 2.5	KS 4/23	10 / 7	1000.00
KTN 3/23	86242314	Transparent	0.13 – 0.19	2.5 – 4.0	KS 4/23	10 / 7	1000.00
KTN 4/23	86242316	Transparent	0.17 – 0.22	4.0 – 6.0	KS 4/23	10 / 7	1000.00
KTN 5/23	86242318	Transparent	0.2 – 0.28	6.0 – 10.0	KS 4/23	10 / 7	1000.00

Label plate KS (single-line)



PRODUCT INFORMATION

High-quality, halogen-free, universal label plate. The KS 4/x label is used with sleeves KT, KTH, KTHQ or holders KM, KMH, KMHQ or KTN on wires, cables, lines or conduits.

- Available in various lengths and colors.
- The large printable area at the top provides room to reference individual projects.

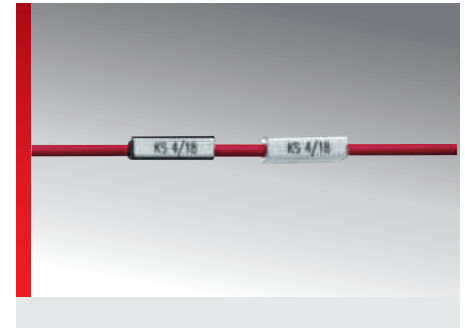
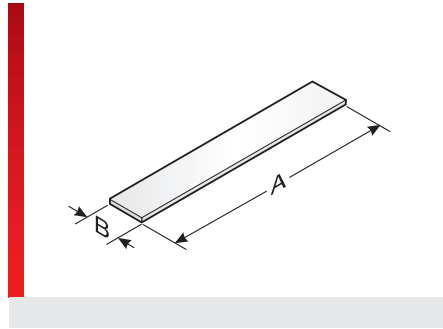
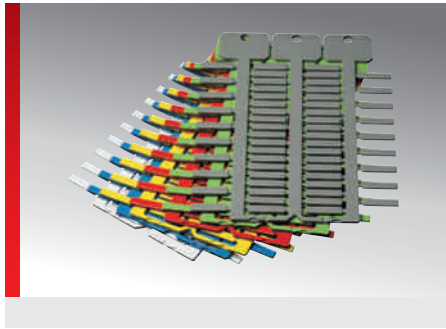
SPECIFICATIONS

	-40.00 – 284.00 °F
	Polycarbonate (PC)
	V0
	Single-line inscription

Type	Part number	Color	RAL equiv.	Label size inch (B x A)	Title space inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
Label length 0.39 inch, 4-line mat design										
KS 4/10 4ST	86361084	White	9016	0.16 x 0.39	0.16 x 0.39	5 / 1	64.00	GP4	A86	1024.00
Label length 0.47 inch, 4-line mat design										
KS 4/12 4ST	86361086	White	9016	0.16 x 0.47	0.16 x 0.47	6 / 1	64.00	GP4	A87	1024.00
KS 4/12 4ST	86361087	Yellow	1018	0.16 x 0.47	0.16 x 0.47	6 / 1	64.00	GP4	430	1024.00
Label length 0.47 inch										
KS 4/12	86361026	White	9016	0.16 x 0.47	0.16 x 0.47	6 / 1	57.00	GP3	6	1026.00
KS 4/12	86361018	Yellow	1018	0.16 x 0.47	0.16 x 0.47	6 / 1	57.00	GP3	7	1026.00
KS 4/12	86361020	Red	2012	0.16 x 0.47	0.16 x 0.47	6 / 1	57.00	GP3	8	1026.00
KS 4/12	86361022	Green	6018	0.16 x 0.47	0.16 x 0.47	6 / 1	57.00	GP3	9	1026.00
KS 4/12	86361024	Blue	5012	0.16 x 0.47	0.16 x 0.47	6 / 1	57.00	GP3	10	1026.00
KS 4/12	86361019	Orange	2011	0.16 x 0.47	0.16 x 0.47	6 / 1	57.00	GP3	60	1026.00
Label length 0.47 inch (high packaging density)										
KS 4/12 ST	86361072	White	9016	0.16 x 0.47	0.16 x 0.47	6 / 1	72.00	GP3	6ST	1296.00
KS 4/12 ST	86361073	Yellow	1018	0.16 x 0.47	0.16 x 0.47	6 / 1	72.00	GP3	7ST	1296.00
KS 4/12 ST	86361074	Red	2012	0.16 x 0.47	0.16 x 0.47	6 / 1	72.00	GP3	8ST	1296.00

Single wire, cable, and conduit labeling

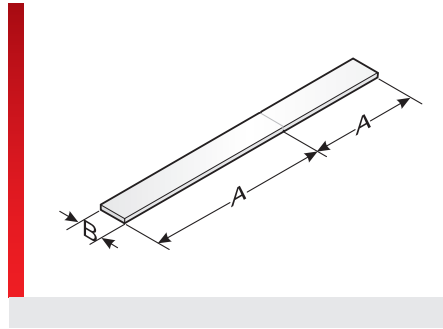
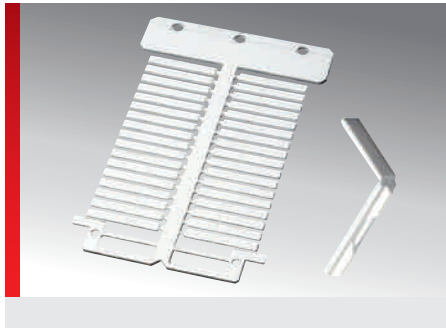
Label plate KS (single-line) (Continued...)



Single wire, cable, and conduit labeling

Type	Part number	Color	RAL equiv.	Label size inch (B x A)	Title space inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
Label length 0.47 inch, leveled foot										
KS 4/12-AF	86361027	White	9016	0.16 x 0.47	0.16 x 0.47	6 / 1	57.00	GP3	6AF	1026.00
Label length 0.59 inch, 4-line mat design										
KS 4/15 4ST	86361088	White	9016	0.16 x 0.59	0.16 x 0.59	8 / 1	64.00	GP4	A88	1024.00
Label length 0.71 inch										
KS 4/18	86361036	White	9016	0.16 x 0.71	0.16 x 0.71	10 / 1	57.00	GP3	1	1026.00
KS 4/18	86361028	Yellow	1018	0.16 x 0.71	0.16 x 0.71	10 / 1	57.00	GP3	2	1026.00
KS 4/18	86361030	Red	2012	0.16 x 0.71	0.16 x 0.71	10 / 1	57.00	GP3	3	1026.00
KS 4/18	86361032	Green	6018	0.16 x 0.71	0.16 x 0.71	10 / 1	57.00	GP3	4	1026.00
KS 4/18	86361034	Blue	5012	0.16 x 0.71	0.16 x 0.71	10 / 1	57.00	GP3	5	1026.00
KS 4/18	86361033	Orange	2011	0.16 x 0.71	0.16 x 0.71	10 / 1	57.00	GP3	10	1026.00
KS 4/18	86361035	Brown	8003	0.16 x 0.71	0.16 x 0.71	10 / 1	57.00	GP3	1B	1026.00
KS 4/18	86361029	Purple	4005	0.16 x 0.71	0.16 x 0.71	10 / 1	57.00	GP3	1L	1026.00
KS 4/18	86361031	Pink	4010	0.16 x 0.71	0.16 x 0.71	10 / 1	57.00	GP3	1R	1026.00
KS 4/18	86361228	Gray	7038	0.16 x 0.71	0.16 x 0.71	10 / 1	57.00	GP3	1G	1026.00
Label length 0.71 inch, long mat design										
KS 4/18 L	86361090	White	9016	0.16 x 0.71	0.16 x 0.71	10 / 1	57.00	GP3	415	1026.00
Label length 0.71 inch (high packaging density)										
KS 4/18 ST	86361080	White	9016	0.16 x 0.71	0.16 x 0.71	10 / 1	72.00	GP3	1ST	1296.00
KS 4/18 ST	86361081	Yellow	1018	0.16 x 0.71	0.16 x 0.71	10 / 1	72.00	GP3	2ST	1296.00
KS 4/18 ST	86361082	Red	2012	0.16 x 0.71	0.16 x 0.71	10 / 1	72.00	GP3	3ST	1296.00
Label length 0.71 inch, leveled foot										
KS 4/18-AF	86361037	White	9016	0.16 x 0.71	0.16 x 0.71	10 / 1	57.00	GP3	5AF	1026.00
Label length 0.91 inch										
KS 4/23	86361064	White	9016	0.16 x 0.91	0.16 x 0.91	12 / 1	34.00	GP3	11A	1020.00
KS 4/23	86361066	Yellow	1018	0.16 x 0.91	0.16 x 0.91	12 / 1	34.00	GP3	11B	1020.00
KS 4/23	86361068	Red	2012	0.16 x 0.91	0.16 x 0.91	12 / 1	34.00	GP3	11C	1020.00

KS label plate (single-line/divisible)



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

High-quality, halogen-free, divisible label plate. The KS 4/x label is used with sleeves KT, KTH, KTHQ or holders KM, KMH, KMHQ or KTN on wires, cables, lines or conduits.

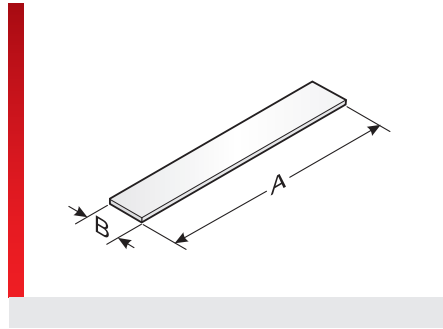
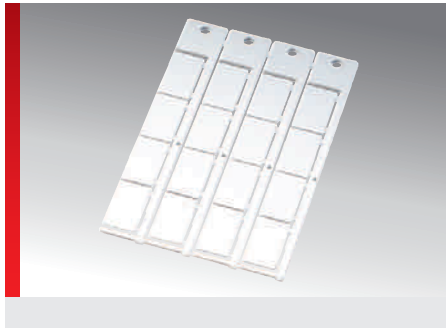
- Available in different colors.
- The severable section of the KS 4/18-12 is used to record necessary connection data.
- The 30 mm (1.18 in) or longer KS 4/30-70 label can be cut to length in increments of 10 mm (0.39 in) as needed.

SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Single-line inscription

Type	Part number	Color	RAL equiv.	Label size inch (B x A)	Title space inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
Label length 1.18 inch (divided at 0.71 inch)										
KS 4/18-12	86361048	White	9016	0.16 x 1.18	0.16 x 1.18	16 / 1	34.00	GP3	15A	1020.00
KS 4/18-12	86361050	Yellow	1018	0.16 x 1.18	0.16 x 1.18	16 / 1	34.00	GP3	17A	1020.00
KS 4/18-12	86361052	Red	2012	0.16 x 1.18	0.16 x 1.18	16 / 1	34.00	GP3	17A	1020.00
KS 4/18-12	86361054	Green	6018	0.16 x 1.18	0.16 x 1.18	16 / 1	34.00	GP3	18A	1020.00
KS 4/18-12	86361056	Blue	5012	0.16 x 1.18	0.16 x 1.18	16 / 1	34.00	GP3	18A	1020.00
KS 4/18-12	86361058	Gray	7038	0.16 x 1.18	0.16 x 1.18	16 / 1	34.00	GP3	20A	1020.00
Label length 2.76 inch (divided at 1.18/1.57/1.97/2.26 inch)										
KS 4/30-70	86361070	White	9016	0.16 x 2.76	0.16 x 2.76	38 / 1	18.00	GP3	1U	324.00
KS 4/30-70	86361071	Yellow	1018	0.16 x 2.76	0.16 x 2.76	38 / 1	18.00	GP3	1U5	324.00

KS label plate (multi-line)



PRODUCT INFORMATION

High-quality, halogen-free, universal label for multi-line inscriptions.

- Available in various lengths and colors.
- The large printable area at the top provides room to reference individual projects.

The KS 15/x may be inserted into the KM 15* label holders or the BZS 15* and BZS/F 15* label rails.

The KS 22x22 is suitable for Siemens 3SB push-button and signal lamp holders. Other sizes of the KS label are used for BT and BMA label holders.

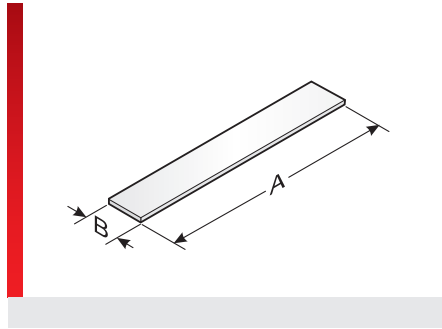
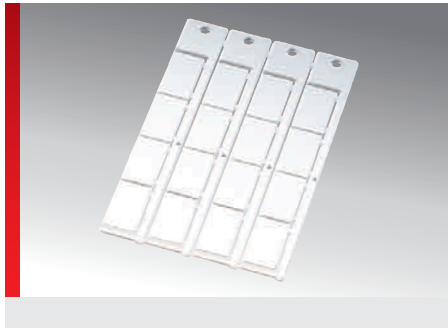
SPECIFICATIONS

	-40.00 – 284.00 °F
	Polycarbonate (PC)
	V0
	Single-line and multi-line inscription

Type	Part number	Color	RAL equiv.	Label size inch (B x A)	Title space inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
Label length 1.04 inch for BT 22.5 and BT Harmony ZB4										
KS 8/26.5	86361060	White	9016	0.31 x 1.04	0.31 x 1.04	14 / 2	16.00	GP4	71	480.00
0.67 inch label length for KM 15*, BZS 15* and BZS/F 15*										
KS 15/17	86361040	White	9016	0.59 x 0.67	0.59 x 0.67	9 / 4	24.00	GP4	84	720.00
1.06 inch label length for KM 15/27, BT 15/27, BTK 15/27, BT-SR 15x27, BTK 22,5, BZS 15* and BZS/F 15*										
KS 15/27	86361010	White	9016	0.59 x 1.06	0.59 x 1.06	15 / 4	16.00	GP4	85	480.00
KS 15/27	86361012	Yellow	1018	0.59 x 1.06	0.59 x 1.06	15 / 4	16.00	GP4	85G	480.00
KS 15/27	86361008	Red	2012	0.59 x 1.06	0.59 x 1.06	15 / 4	16.00	GP4	85R	480.00
KS 15/27	86361002	Gray	7040	0.59 x 1.06	0.59 x 1.06	15 / 4	16.00	GP4	85U	480.00
1.93 inch label length for KM 15/49, BT 15/49, BTK 15/49 and BT-SR 15/49										
KS 15/49	86361014	White	9016	0.59 x 1.93	0.59 x 1.93	27 / 4	8.00	GP4	86	240.00
KS 15/49	86361015	Yellow	1018	0.59 x 1.93	0.59 x 1.93	27 / 4	8.00	GP4	86G	240.00
KS 15/49	86361013	Red	2012	0.59 x 1.93	0.59 x 1.93	27 / 4	8.00	GP4	86R	240.00
KS 15/49	86361003	Gray	7040	0.59 x 1.93	0.59 x 1.93	27 / 4	8.00	GP4	86U	240.00
Label length 1.93 inch for BT 15/49, BTK 15/49 and BT-SR 15/49										
KS 15/49 2x2,7	86361021	White	9016	0.59 x 1.93	0.59 x 1.42	20 / 4	8.00	GP4	086	240.00

Single wire, cable, and conduit labeling

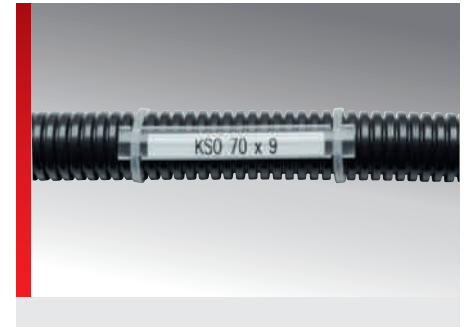
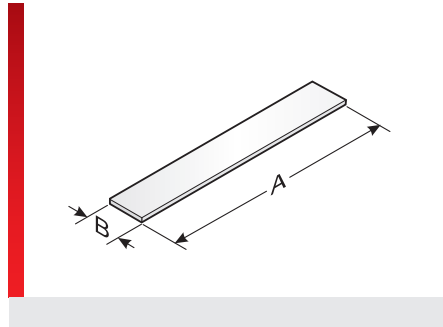
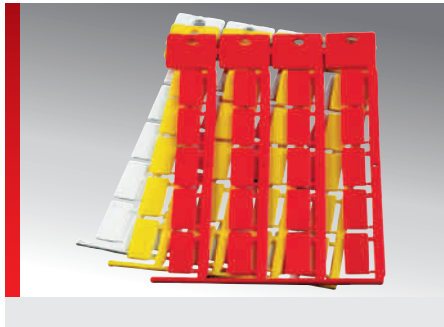
KS label plate (multi-line) (Continued...)



Single wire, cable, and conduit labeling

Type	Part number	Color	RAL equiv.	Label size inch (B x A)	Title space inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
2.64 inch label length for KM 15/67, BT 15/67, BTK 15/67 and BT-SR 15/67										
KS 15/67	86361016	White	9016	0.59 x 2.64	0.59 x 2.64	37 / 4	4.00	GP4	87	120.00
KS 15/67	86361017	Yellow	1018	0.59 x 2.64	0.59 x 2.64	37 / 4	4.00	GP4	87G	120.00
KS 15/67	86361009	Red	2012	0.59 x 2.64	0.59 x 2.64	37 / 4	4.00	GP4	87R	120.00
KS 15/67	86361004	Gray	7040	0.59 x 2.64	0.59 x 2.64	37 / 4	4.00	GP4	87U	120.00
0.87 inch label length for Siemens 3SB push-button and signal lamp holders										
KS 22x22	86361264	White	9016	0.87 x 0.87	0.87 x 0.87	12 / 6	8.00	GP3	113	144.00
KS 22x22	86361262	Gray	7040	0.87 x 0.87	0.87 x 0.87	12 / 6	8.00	GP3	114	144.00
1.06 inch label length for BT-SR 27x12,5										
KS 27/12.5	86361250	White	9016	0.49 x 1.06	0.49 x 1.06	15 / 3	12.00	GP3	82	216.00
KS 27/12.5	86361256	Gray	7040	0.49 x 1.06	0.49 x 1.06	15 / 3	12.00	GP3	83	216.00
1.06 inch label length for BT-SR 27x18 and BT-SR 27x18 Harmony										
KS 27/18	86361252	White	9016	0.71 x 1.06	0.71 x 1.06	15 / 5	10.00	GP3	105	180.00
KS 27/18	86361258	Gray	7040	0.71 x 1.06	0.71 x 1.06	15 / 5	10.00	GP3	89	180.00
1.06 inch label length for BT-SR 27x 27										
KS 27/27	86361254	White	9016	1.06 x 1.06	1.06 x 1.06	15 / 7	6.00	GP3	107	108.00
KS 27/27	86361260	Gray	7040	1.06 x 1.06	1.06 x 1.06	15 / 7	6.00	GP3	106	108.00

Label plate KSO



PRODUCT INFORMATION

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

- Available in various lengths and colors.
- The large printable area at the top provides room to reference individual projects.

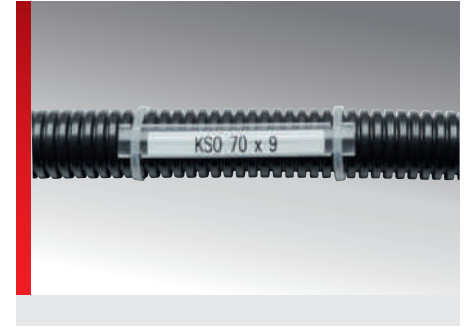
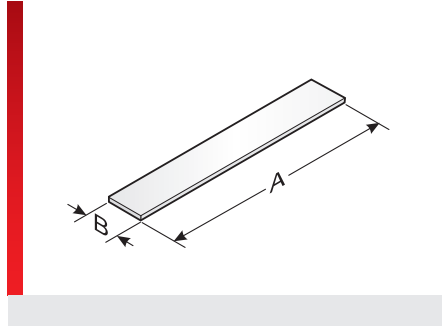
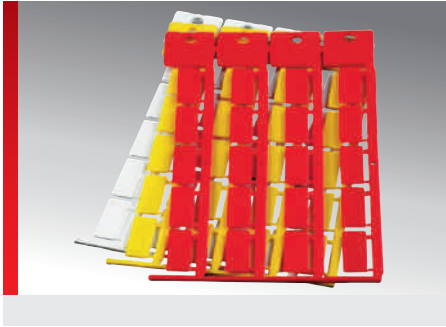
The KSO label is mounted on cables, lines or conduits with KT series sleeves or the KM, KMH, KMH/Q carriers.

SPECIFICATIONS

	-40.00 – 284.00 °F
	Polycarbonate (PC)
	V0
	Single-line and multi-line inscription

Type	Part number	Color	RAL equiv.	Label size inch (B x A)	Title space inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
Label length 0.43 inch										
KSO 11x9	86421024	White	9016	0.35 x 0.43	0.35 x 0.43	6 / 2	44.00	GP4	60	1400.00
KSO 11x9	86421013	Yellow	1018	0.35 x 0.43	0.35 x 0.43	6 / 2	44.00	GP4	60G	1400.00
KSO 11x9	86421015	Red	2012	0.35 x 0.43	0.35 x 0.43	6 / 2	44.00	GP4	60R	1400.00
Label length 0.59 inch										
KSO 15x9	86421026	White	9016	0.35 x 0.59	0.35 x 0.59	8 / 2	44.00	GP4	62	1400.00
KSO 15x9	86421027	Yellow	1018	0.35 x 0.59	0.35 x 0.59	8 / 2	44.00	GP4	62G	1400.00
KSO 15x9	86421019	Red	2012	0.35 x 0.59	0.35 x 0.59	8 / 2	44.00	GP4	62R	1400.00
Label length 0.79 inch										
KSO 20x9	86421028	White	9016	0.35 x 0.79	0.35 x 0.79	11 / 2	20.00	GP4	64	680.00
KSO 20x9	86421080	Yellow	1018	0.35 x 0.79	0.35 x 0.79	11 / 2	20.00	GP4	65G	680.00
KSO 20x9	86421030	Red	2012	0.35 x 0.79	0.35 x 0.79	11 / 2	20.00	GP4	65R	680.00
Label length 1.38 inch										
KSO 35x9	86421064	White	9016	0.35 x 1.38	0.35 x 1.38	19 / 2	12.00	GP4	69W	360.00
KSO 35x9	86421065	Yellow	1018	0.35 x 1.38	0.35 x 1.38	19 / 2	12.00	GP4	69G	360.00
KSO 35x9	86421066	Red	2012	0.35 x 1.38	0.35 x 1.38	19 / 2	12.00	GP4	69R	360.00
KSO 35x9 2x2,5mm	86421068	White	9016	0.35 x 1.38	0.35 x 1.38	19 / 2	12.00	GP4	303	360.00

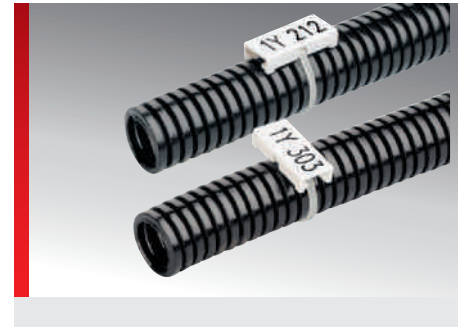
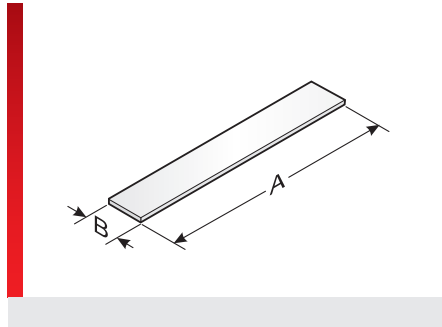
Label plate KSO (Continued...)



Single wire, cable, and conduit labeling

Type	Part number	Color	RAL equiv.	Label size inch (B x A)	Title space inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
Label length 2.76 inch										
KSO 70x9	86421082	White	9016	0.35 x 2.76	0.35 x 2.76	38 / 2	11.00	GP5	280	330.00
KSO 70x9	86421083	Yellow	1018	0.35 x 2.76	0.35 x 2.76	38 / 2	11.00	GP5	282	330.00
KSO 70x9	86421084	Red	2012	0.35 x 2.76	0.35 x 2.76	38 / 2	11.00	GP5	281	330.00

Label plate BS



PRODUCT INFORMATION

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

SPECIFICATIONS

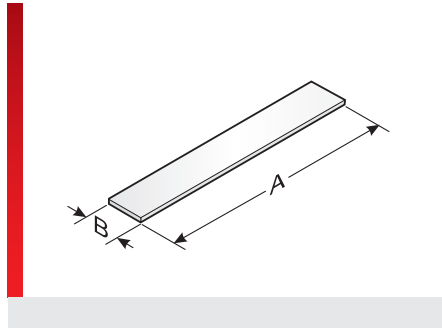
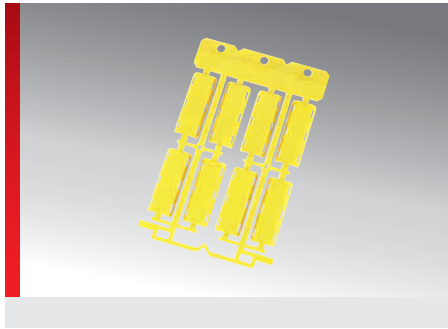
- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Single-line and multi-line inscription. Mounted lengthwise and across.

Type	Part number	Color	RAL equiv.	Label size inch (B x A)	Title space inch	No. characters/lines	Cable tie Max. width inch	No. Per frame	Base plate	Software Type	Pack qty.
For lengthwise application											
BS 5	86281020	White	9016	0.47 x 1.06	0.47 x 1.06	15 / 3	0.12	16.00	none	80	190.00
BS 5	86281021	Yellow	1018	0.47 x 1.06	0.47 x 1.06	15 / 3	0.12	16.00	none	109	190.00
BS 5-2	86281031	Yellow	1018	0.47 x 2.17	0.47 x 2.17	30 / 3	0.12	8.00	none	108	96.00
For lengthwise or crosswise application											
BS 6	86281022	White	9016	0.47 x 1.06	0.47 x 1.06	15 / 3	0.12	16.00	none	81	190.00
BS 6	86281023	Green	6018	0.47 x 1.06	0.47 x 1.06	15 / 3	0.12	16.00	none	81G	192.00
BS 6	86281025	Orange	2011	0.47 x 1.06	0.47 x 1.06	15 / 3	0.12	16.00	none	810	192.00

The correct size KB cable ties are listed in the accessories in the KDH catalog.

Single wire, cable, and conduit labeling

ALU label plate



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

High-quality, halogen-free label to attach with cable ties directly onto the cables.

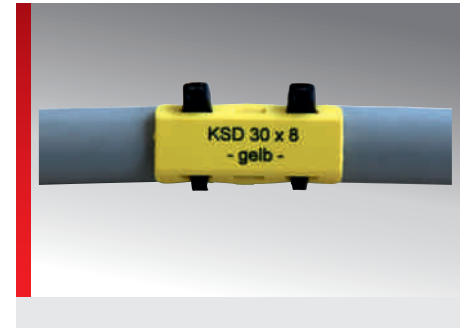
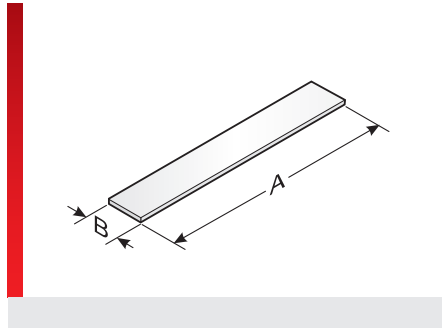
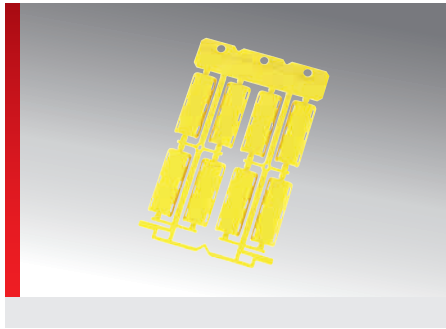
SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Single-line and multi-line inscription

Type	Part number	Color	RAL equiv.	Label size inch (B x A)	Title space inch	No. characters/lines	Cable tie Max. width inch	No. Per frame	Base plate	Software Type	Pack qty.
For lengthwise application											
KSD 20x5 PC	86281046	White	9016	0.2 x 0.79	0.2 x 0.79	11 / 1	0.12	16.00	GP3K	306	480.00
KSD 20x5 PC	86281048	Yellow	1018	0.2 x 0.79	0.2 x 0.79	11 / 1	0.12	16.00	GP3K	307	480.00
KSD 30x8 PC	86281042	White	9016	0.31 x 1.18	0.31 x 1.18	16 / 2	0.12	12.00	GP3K	304	360.00
KSD 30x8 PC	86281044	Yellow	1018	0.31 x 1.18	0.31 x 1.18	16 / 2	0.12	12.00	GP3K	305	360.00
KSD 30x8 PC	86281045	Red	9016	0.31 x 1.18	0.31 x 1.18	16 / 2	0.12	12.00	GP3K	321	360.00
KSD 40x10 PC	86281032	White	9016	0.39 x 1.57	0.39 x 1.57	22 / 2	0.12	8.00	GP3K	263	240.00
KSD 40x10 PC	86281034	Yellow	1018	0.39 x 1.57	0.39 x 1.57	22 / 2	0.12	8.00	GP3K	264	240.00

The correct size KB cable ties are listed in the accessories in the KDH catalog.

KSD label plate (Polypropylene)



PRODUCT INFORMATION

High-quality label to attach with cable ties directly onto the cables.

The material polypropylene (PP) is intended for labels created with the pulsar laser system only.

SPECIFICATIONS

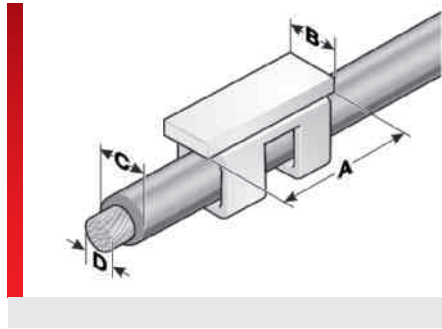
- 22.00 – 194.00 °F
- Polypropylene (PP)
- HB
- Single-line and multi-line inscription

Type	Part number	Color	RAL equiv.	Label size inch (B x A)	Title space inch	No. characters/lines	Cable tie Max. width inch	No. Per frame	Base plate	Software Type	Pack qty.
For applying lengthwise; for labeling with the pulsar laser system											
KSD 30x8 PP	86281050	Yellow	1018	0.31 x 1.18	0.31 x 1.18	16 / 2	0.12	12.00	GP3K	A58	360.00
KSD 40x10 PP	86281036	White	9016	0.39 x 1.57	0.39 x 1.57	22 / 2	0.12	8.00	GP3K	271	240.00
KSD 40x10 PP	86281038	Yellow	1018	0.39 x 1.57	0.39 x 1.57	22 / 2	0.12	8.00	GP3K	272	240.00

The correct size KB cable ties are listed in the accessories in the KDH catalog.

Single wire, cable, and conduit labeling

Label plate KDE







Single wire, cable, and conduit labeling






PRODUCT INFORMATION

The KDE label plates are pushed directly onto the single wires.

- For wire cross sections from 0.02 – 0.16 inch² (AWG 20 – 12).
- Available in two lengths, in the colors white and yellow.

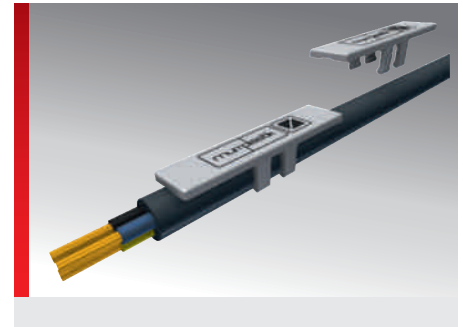
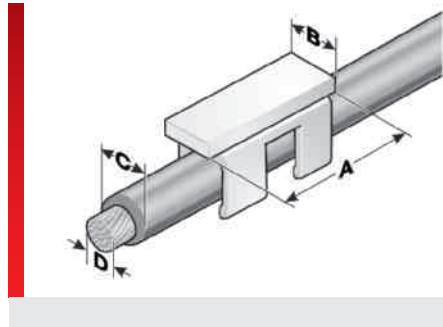
SPECIFICATIONS

-  -40.00 – 284.00 °F
-  Polycarbonate (PC)
-  V0
-  Single-line inscription. Suitable for use with narrow wire bending radii.

Type	Part number	Color	RAL equiv.	Application range from - to Ø inch (C)	Wire Cross-section from - to inch ² (D)	Label size inch (B x A)	No. Per frame	Base plate	Software Type	Pack qty.
Label length 0.43 inch										
KDE 11x4-3,2	86381240	White	9016	0.07 – 0.13	0.5 – 1.5	0.16 x 0.43	48.00	GP KDE	A78	576.00
KDE 11x4-3,2	86381241	Yellow	1018	0.07 – 0.13	0.5 – 1.5	0.16 x 0.43	48.00	GP KDE	A79	576.00
KDE 11x4-4,2	86381242	White	9016	0.08 – 0.17	1.0 – 4.0	0.16 x 0.43	48.00	GP KDE	A80	576.00
KDE 11x4-4,2	86381243	Yellow	1018	0.08 – 0.17	1.0 – 4.0	0.16 x 0.43	48.00	GP KDE	A81	576.00
Label length 0.63 inch										
KDE 16x4-3,2	86381244	White	9016	0.07 – 0.13	0.5 – 1.5	0.16 x 0.63	48.00	GP KDE	A82	576.00
KDE 16x4-3,2	86381245	Yellow	1018	0.07 – 0.13	0.5 – 1.5	0.16 x 0.63	48.00	GP KDE	A83	576.00
KDE 16x4-4,2	86381246	White	9016	0.08 – 0.17	1.0 – 4.0	0.16 x 0.63	48.00	GP KDE	A84	576.00
KDE 16x4-4,2	86381247	Yellow	1018	0.08 – 0.17	1.0 – 4.0	0.16 x 0.63	48.00	GP KDE	A85	576.00

KNQ label plate



PRODUCT INFORMATION

High-quality, halogen-free label for subsequent direct labeling of wires. The KNQ label can be clipped onto wired single cores by hand without prior disconnection. No tools required. Available in three sizes for wire cross-sections of 0.02 - 0.24 inch² (AWG 20 – 10).

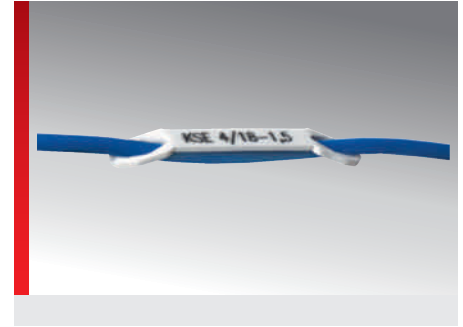
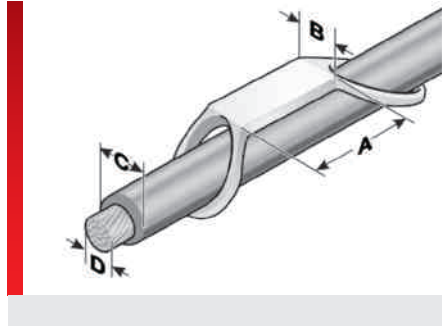
SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Single-line inscription. Retrofitting.

Type	Part number	Color	RAL equiv.	Application range from - to Ø inch (C)	Wire Cross-section from - to inch ² (D)	Label size inch (B x A)	Title space inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
KNQ 3.8/12-2.0	86381810	White	9016	0.08 – 0.1	0.5 – 0.75	0.15 x 0.47	0.15 x 0.47	6 / 1	48.00	GP3Q	400	720.00
KNQ 3.8/18-2.0	86381812	White	9016	0.08 – 0.1	0.5 – 0.75	0.15 x 0.71	0.15 x 0.71	10 / 1	48.00	GP3Q	401	720.00
KNQ 3.8/23-2.0	86381814	White	9016	0.08 – 0.1	0.5 – 0.75	0.15 x 0.91	0.15 x 0.91	12 / 1	48.00	GP3Q	402	720.00
KNQ 3.8/12-2.5	86381820	White	9016	0.1 – 0.12	0.75 – 1.5	0.15 x 0.47	0.15 x 0.47	6 / 1	48.00	GP3Q	403	720.00
KNQ 3.8/18-2.5	86381822	White	9016	0.1 – 0.12	0.75 – 1.5	0.15 x 0.71	0.15 x 0.71	10 / 1	48.00	GP3Q	404	720.00
KNQ 3.8/23-2.5	86381824	White	9016	0.1 – 0.12	0.75 – 1.5	0.15 x 0.91	0.15 x 0.91	12 / 1	48.00	GP3Q	405	720.00
KNQ 4.8/12-3.0	86381830	White	9016	0.12 – 0.14	1.5 – 2.5	0.19 x 0.47	0.19 x 0.47	6 / 1	48.00	GP3Q	406	720.00
KNQ 4.8/18-3.0	86381832	White	9016	0.12 – 0.14	1.5 – 2.5	0.19 x 0.71	0.19 x 0.71	10 / 1	48.00	GP3Q	407	720.00
KNQ 4.8/23-3.0	86381834	White	9016	0.12 – 0.14	1.5 – 2.5	0.19 x 0.91	0.19 x 0.91	12 / 1	48.00	GP3Q	408	720.00
KNQ 4.8/12-3.5	86381840	White	9016	0.14 – 0.17	2.5 – 4.0	0.19 x 0.47	0.19 x 0.47	6 / 1	48.00	GP3Q	409	720.00
KNQ 4.8/18-3.5	86381842	White	9016	0.14 – 0.17	2.5 – 4.0	0.19 x 0.71	0.19 x 0.71	10 / 1	48.00	GP3Q	410	720.00
KNQ 4.8/23-3.5	86381844	White	9016	0.14 – 0.17	2.5 – 4.0	0.19 x 0.91	0.19 x 0.91	12 / 1	48.00	GP3Q	411	720.00
KNQ 5.5/12-4.2	86381850	White	9016	0.17 – 0.2	4.0 – 6.0	0.22 x 0.47	0.22 x 0.47	6 / 1	48.00	GP3Q	412	720.00
KNQ 5.5/18-4.2	86381852	White	9016	0.17 – 0.2	4.0 – 6.0	0.22 x 0.71	0.22 x 0.71	10 / 1	48.00	GP3Q	413	720.00
KNQ 5.5/23-4.2	86381854	White	9016	0.17 – 0.2	4.0 – 6.0	0.22 x 0.91	0.22 x 0.91	12 / 1	48.00	GP3Q	414	720.00

Single wire, cable, and conduit labeling

Label plate KSE



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

The KSE label plates are pushed directly onto the single wires.

- Two sizes cover the wire cross sections from 0.01 – 0.06 inch² (AWG 24 – 16).
- Available in white.

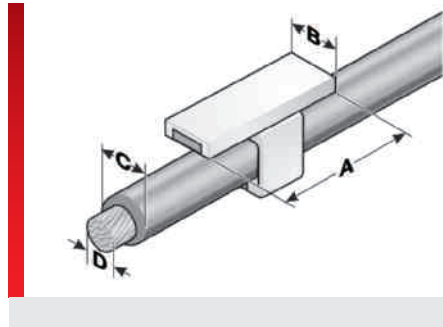
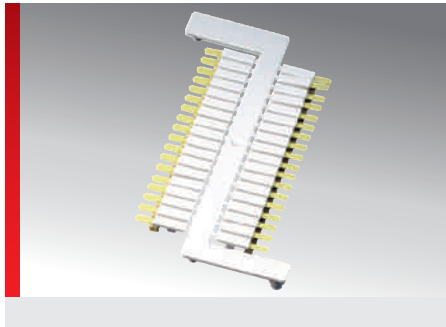
SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Single-line inscription



Type	Part number	Color	Application range from - to Ø inch (C)	Wire Cross-section from - to inch ² (D)	Label size inch (B x A)	Title space inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
Usable label length 0.39 inch											
KSE 4/10-0,75	86381010	White	0.06 – 0.1	0.25 – 0.75	0.24 x 0.71	0.16 x 0.39	5 / 1	60.00	GRPD/10	92	1500.00
KSE 4/10-1,5	86381012	White	0.1 – 0.12	0.75 – 1.5	0.24 x 0.71	0.16 x 0.39	5 / 1	60.00	GRPD/10	93	1500.00
Usable label length 0.71 inch											
KSE 4/18-1,5	86381014	White	0.1 – 0.12	0.75 – 1.5	0.24 x 1.02	0.16 x 0.71	10 / 1	40.00	GRPD/18	94	1000.00

Label plate KSN



PRODUCT INFORMATION

High-quality, halogen-free label for subsequent direct labeling of wires. The KSN label plate can be attached to wired single cores without disconnecting them.

They can be fitted easily and quickly with the MW1 assembly tool.

- Available in three sizes for wire cross-sections of 0.02 – 0.10 inch² (AWG 20 – 14).

SPECIFICATIONS

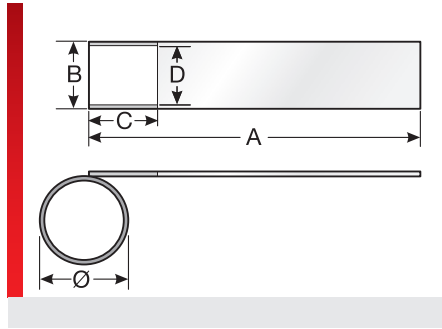
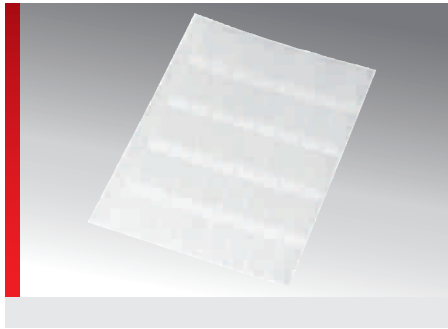
	-40.00 – 284.00 °F
	Polycarbonate (PC)
	V0
	Single-line inscription. Retrofitting.

Type	Part number	Color	RAL equiv.	Application range from - to Ø inch (C)	Wire Cross-section from - to inch ² (D)	Label size inch (B x A)	Title space inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
KSN-A	86381410	White	9016	0.08 – 0.1	0.5 – 0.75	0.2 x 0.55	0.2 x 0.55	7 / 1	36.00	none	12	360.00
KSN-B	86381412	White	9016	0.1 – 0.12	1.0 – 1.5	0.2 x 0.55	0.2 x 0.55	7 / 1	36.00	none	13	360.00
KSN-C	86381414	White	9016	0.12 – 0.15	1.75 – 2.5	0.2 x 0.55	0.2 x 0.55	7 / 1	36.00	none	14	360.00

KSN sample set, consisting of 1 each of KSN frame, MW1 installation tools and MPKSN mounting plate

KSN sample set	86391010	-										1.00
Assembly tool												
MW 1	86381610	-										1.00
Mounting plate												
MPKSN	86381612	-										1.00

ESL self-laminating label



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

Self-laminating, high-quality polyester sheet labels for single-line and multi-line inscriptions. 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.

SPECIFICATIONS

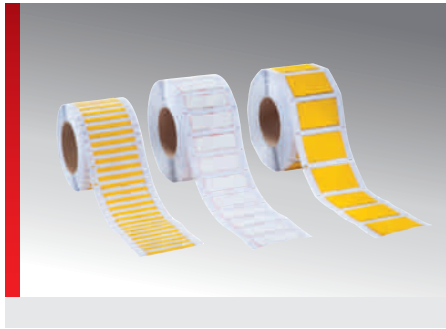
- 40.00 – 302.00 °F
- Polyester film
- V0
- Adhesive 4830
- Single-line and multi-line inscription. A4 sheets

Type	Part number	Color	RAL equiv.	label size inch (B x A)	Printable Area inch (D x C)	No. No. of	No. Per sheet	Software Type	Pack qty.
ESL 20x12R ¹⁾	86562450	White	9016	0.47 x 0.79	0.47 x 0.28	13.00	156.00	126	1560.00
ESL 35x17R ¹⁾	86562452	White	9016	0.67 x 1.38	0.67 x 0.35	10.00	70.00	124	1400.00
ESL 56x21R ¹⁾	86562454	White	9016	0.83 x 2.2	0.83 x 0.51	8.00	32.00	113	800.00
ESL 56x21R ¹⁾	86562460	Yellow	1018	0.83 x 2.2	0.83 x 0.51	8.00	32.00	A41	800.00
ESL 93x31R ¹⁾	86562456	White	9016	1.22 x 3.66	1.22 x 0.98	5.00	15.00	127	300.00
ESL 140x47R ¹⁾	86562458	White	9016	1.85 x 5.51	1.85 x 1.18	4.00	8.00	125	200.00

Please note: Labels processed at min. 10°F

¹⁾ Calculation of the maximum application areas: $\varnothing = (A-C) / 3,14$

Rail technology, taped



PRODUCT INFORMATION

Polyolefine (PO) heat-shrink conduit, type ST-BT-H

Halogen-free Polyolefine heat-shrink conduit for labeling cables, with excellent properties for use with the thermal transfer method. This conduit, with its special approvals, is particularly suitable for applications in the fields of air and rail transport, marine, offshore and tunnel construction.

The pre-perforated heat-shrink conduit is divided into a 0.79 inch long section for cable identification and a 0.47 inch long section, which contains information to simplify wiring the circuits. This section can be discarded after the circuit is wired. This method helps to significantly reduce the processing time

Properties

- Excellent printing properties
- Flat-rolled for thermal transfer method printing
- Halogen-free, thin-walled
- Shrink ratio of 2:1 (the recommended shrink range is -20 % of the max. value

and +20 % of the min. value)

- Vehicle category 1a according to BS 6853 (1999)
- Fire resistance ASTM D 635-HB
- Shrink temperature >194 °F
- Application temperature -67 °F to +221 °F

Standards

ASTM D 635-HB flammability
Boeing BSS 7239, formation of toxic gases during M7 material incineration

Rail standards

EN 45545-2 Tier 3x HL3 (R22)
BS6853 (1999) vehicle category 1a
UNI CEI 11170-3 Tier LR4
DIN 5510-2 Annex C Low Smoke Toxicity
DIN 5510-2 Drip Class ST2
DIN 5510-2 Smoke Formation Tier SR2

Printer ribbon

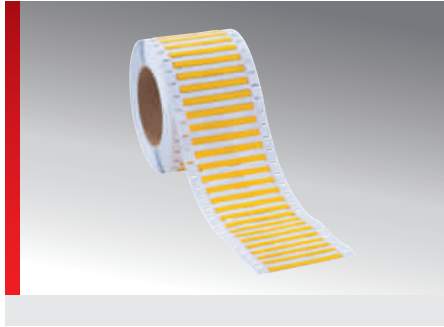
The matching printer ribbon is listed under „Labeling System“ in the „Thermal Transfer System“ section with „Consumables“.

SPECIFICATIONS

	-67.00 – 221.00 °F
	Polyolefin
	ASTM D 635-HB
	Heat-shrink conduit for railway technology; meets railway standard EN 45545-2 Tier 3x HL3 (R22)

Type	Part number	Color	label size inch	Inside diameter inch	Shrinkage area from – to Ø inch	Markierlänge inch	Software Type	Pack qty.
Rail technology, taped, marker length 0.79 inch								
ST-BT-H 20/12-3,2	86531100	White	0.79	0.13	0.13 – 0.06	0.79	A70	2000.00
ST-BT-H 20/12-3,2	86532100	Yellow	0.79	0.13	0.13 – 0.06	0.79	A74	2000.00
ST-BT-H 20/12-4,8	86531101	White	0.79	0.19	0.19 – 0.09	0.79	A71	2000.00
ST-BT-H 20/12-4,8	86532101	Yellow	0.79	0.19	0.19 – 0.09	0.79	A75	2000.00
ST-BT-H 20/12-12,7	86531102	White	0.79	0.50	0.5 – 0.25	0.79	A72	1000.00
ST-BT-H 20/12-12,7	86532102	Yellow	0.79	0.50	0.5 – 0.25	0.79	A76	1000.00
ST-BT-H 20/12-25,4	86531103	White	0.79	1.00	1.0 – 0.5	0.79	A73	600.00
ST-BT-H 20/12-25,4	86532103	Yellow	0.79	1.00	1.0 – 0.5	0.79	A77	600.00

ECO taped



PRODUCT INFORMATION

Polyolefine (PO) heat-shrink conduit, type ST-ECO 16/32/64

Flat, thin-walled heat-shrink conduit.

Flame retardant i.a.w. UL224. Shrink ratio 3:1
Particularly well-suited for use in labeling and identification processes.

Properties

- Excellent printing results
- Very good chemical, physical and electrical properties
- Greatly flame retardant in accordance with UL224
- Ready to use with thermal transfer printers

- Shrink ratio of 3:1 (the recommended shrink range is -20 % of the max. value and +20 % of the min. value)
- Shrink temperature >194 °F
- Application temperature -67 °F to +275 °F

Standard colors: White, yellow

Available upon request: Blue, red, green

Printer ribbon

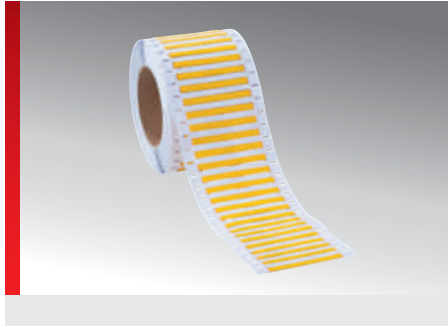
The matching printer ribbon is listed under „Labeling System“ in the „Thermal Transfer System“ section with „Consumables“.

SPECIFICATIONS

	-67.00 – 275.00 °F
	Polyolefin
	V0
	Taped ECO heat-shrink conduits

Type	Part number	Color	label size inch	Inside diameter inch	Shrinkage area from – to Ø inch	Markierlänge inch	Software Type	Pack qty.
Roll material taped, marker length 16 mm (0.63 inch)								
ST-ECO 16-2,4	86531200	White	0.63	0.09	0.09 – 0.03	0.63	AAA	4000.00
ST-ECO 16-2,4	86532200	Yellow	0.63	0.09	0.09 – 0.03	0.63	ABA	4000.00
ST-ECO 16-3,2	86531201	White	0.63	0.13	0.13 – 0.04	0.63	AAB	4000.00
ST-ECO 16-3,2	86532201	Yellow	0.63	0.13	0.13 – 0.04	0.63	ABB	4000.00
ST-ECO 16-4,8	86531202	White	0.63	0.19	0.19 – 0.06	0.63	AAC	4000.00
ST-ECO 16-4,8	86532202	Yellow	0.63	0.19	0.19 – 0.06	0.63	ABC	4000.00
Roll material taped, marker length 32 mm (1.25 inch)								
ST-ECO 32-2,4	86531203	White	1.26	0.09	0.09 – 0.03	1.26	AAD	2000.00
ST-ECO 32-2,4	86532203	Yellow	1.26	0.09	0.09 – 0.03	1.26	ABD	2000.00
ST-ECO 32-3,2	86531204	White	1.26	0.13	0.13 – 0.04	1.26	AAE	2000.00
ST-ECO 32-3,2	86532204	Yellow	1.26	0.13	0.13 – 0.04	1.26	ABE	2000.00
ST-ECO 32-4,8	86531205	White	1.26	0.19	0.19 – 0.06	1.26	AAF	2000.00
ST-ECO 32-4,8	86532205	Yellow	1.26	0.19	0.19 – 0.06	1.26	ABF	2000.00
ST-ECO 32-6,4	86531206	White	1.26	0.25	0.25 – 0.08	1.26	AAG	2000.00
ST-ECO 32-6,4	86532206	Yellow	1.26	0.25	0.25 – 0.08	1.26	ABG	2000.00
ST-ECO 32-9,5	86531207	White	1.26	0.37	0.37 – 0.13	1.26	AAH	1000.00

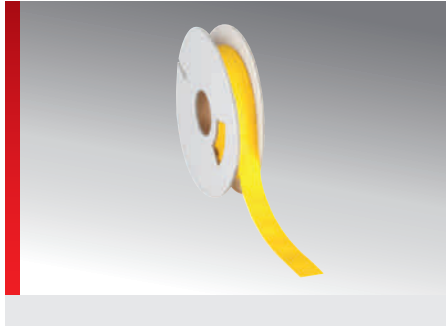
ECO taped (Continued...)



Single wire, cable, and conduit labeling

Type	Part number	Color	label size inch	Inside diameter inch	Shrinkage area from – to Ø inch	Markierlänge inch	Software Type	Pack qty.
ST-ECO 32-9,5	86532207	Yellow	1.26	0.37	0.37 – 0.13	1.26	ABH	1000.00
Roll material taped, marker length 64 mm (2.52 in)								
ST-ECO 64-2,4	86531208	White	2.52	0.09	0.09 – 0.03	2.52	AAI	1000.00
ST-ECO 64-2,4	86532208	Yellow	2.52	0.09	0.09 – 0.03	2.52	ABI	1000.00
ST-ECO 64-3,2	86531209	White	2.52	0.13	0.13 – 0.04	2.52	AAJ	1000.00
ST-ECO 64-3,2	86532209	Yellow	2.52	0.13	0.13 – 0.04	2.52	ABJ	1000.00
ST-ECO 64-4,8	86531210	White	2.52	0.19	0.19 – 0.06	2.52	AAK	1000.00
ST-ECO 64-4,8	86532210	Yellow	2.52	0.19	0.19 – 0.06	2.52	ABK	1000.00
ST-ECO 64-6,4	86531211	White	2.52	0.25	0.25 – 0.08	2.52	AAL	1000.00
ST-ECO 64-6,4	86532211	Yellow	2.52	0.25	0.25 – 0.08	2.52	ABL	1000.00
ST-ECO 64-9,5	86531212	White	2.52	0.37	0.37 – 0.13	2.52	AAM	500.00
ST-ECO 64-9,5	86532212	Yellow	2.52	0.37	0.37 – 0.13	2.52	ABM	500.00
ST-ECO 64-12,7	86531213	White	2.52	0.50	0.5 – 0.17	2.52	AAN	500.00
ST-ECO 64-12,7	86532213	Yellow	2.52	0.50	0.5 – 0.17	2.52	ABN	500.00
ST-ECO 64-19,1	86531214	White	2.52	0.75	0.75 – 0.25	2.52	AAO	500.00
ST-ECO 64-19,1	86532214	Yellow	2.52	0.75	0.75 – 0.25	2.52	ABO	500.00
ST-ECO 64-25,4	86531215	White	2.52	1.00	1.0 – 0.33	2.52	AAP	300.00
ST-ECO 64-25,4	86532215	Yellow	2.52	1.00	1.0 – 0.33	2.52	ABP	300.00
ST-ECO 64-38,1	86531216	White	2.52	1.50	1.5 – 0.5	2.52	AAQ	100.00
ST-ECO 64-38,1	86532216	Yellow	2.52	1.50	1.5 – 0.5	2.52	ABQ	100.00

ECO fanfold



PRODUCT INFORMATION

Continuous-feed Polyolefine heat-shrink conduit, type ST-ECO

Flat, continuous-feed heat-shrink conduit for labeling cables with excellent properties for the thermal transfer method.

This heat-shrink conduit is particularly suitable for applications in the fields of switching cabinet construction, shipbuilding and the labeling of wiring harnesses.

Properties

- Excellent printing results
- Very good chemical, physical and electrical properties
- Greatly flame retardant in accordance with UL224/CSA







- Ready to use with thermal transfer printers
- Shrink ratio of 3:1 (the recommended shrink range is -20 % of the max. value and +20 % of the min. value)
- Heat-shrink conduit may be any length
- Shrink temperature >194 °F
- Application temperature -67 °F to +275 °F

Standard colors: White, yellow
Available upon request: Blue, red, green

Printer ribbon

The matching printer ribbon is listed under „Labeling System“ in the „Thermal Transfer System“ section with „Consumables“.

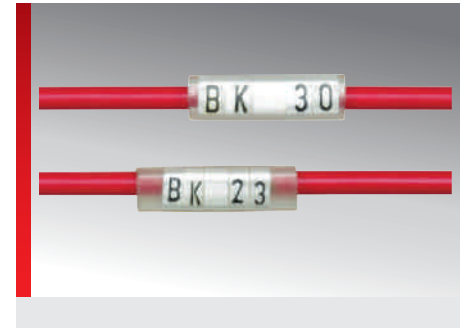
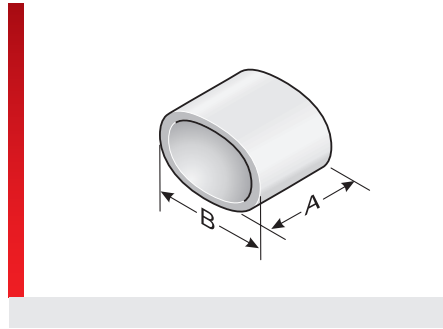
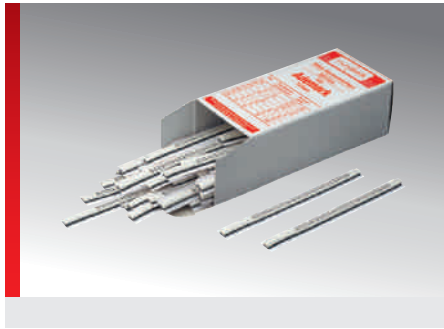
SPECIFICATIONS

	-67.00 – 275.00 °F
	Polyolefin
	V0
	Continuous ECO heat-shrink conduits
	
	

Type	Part number	Color	Inside diameter inch	Shrinkage area from – to Ø inch	Software Type	Pack qty.
Infinite length roll materials						
ST-ECO 4,8	86531300	White	0.19	0.19 – 0.06	AA0	39.37
ST-ECO 4,8	86532300	Yellow	0.19	0.19 – 0.06	AB0	39.37
ST-ECO 6,4	86531301	White	0.25	0.25 – 0.08	AA1	39.37
ST-ECO 6,4	86532301	Yellow	0.25	0.25 – 0.08	AB1	39.37
ST-ECO 9,5	86531302	White	0.37	0.37 – 0.13	AA2	39.37
ST-ECO 9,5	86532302	Yellow	0.37	0.37 – 0.13	AB2	39.37
ST-ECO 12,7	86531303	White	0.50	0.5 – 0.17	AA3	39.37
ST-ECO 12,7	86532303	Yellow	0.50	0.5 – 0.17	AB3	39.37
ST-ECO 19,1	86531304	White	0.75	0.75 – 0.25	AA4	29.53
ST-ECO 19,1	86532304	Yellow	0.75	0.75 – 0.25	AB4	29.53
ST-ECO 25,4	86531305	White	1.00	1.0 – 0.33	AA5	29.53
ST-ECO 25,4	86532305	Yellow	1.00	1.0 – 0.33	AB5	29.53
ST-ECO 38,1	86531306	White	1.50	1.5 – 0.5	AA6	29.53
ST-ECO 38,1	86532306	Yellow	1.50	1.5 – 0.5	AB6	29.53

Single wire, cable, and conduit labeling

Labels BK23 withe



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

Pre-inscribed murr-fix idents made from special PVC. The individual labels come on plastic strips, each containing 20 labels.

BK 23: Label width 0.09 inch (A); Label height 0.16 inch (B)
Font width 0.06 inch; font height 0.14 inch; black lettering

Suitable for KT^{*}-, KTH^{*}- and KTH/Q^{*} sleeves, as well as KM^{*}-, KKM^{*}-, KMH^{*}-, KMH/Q^{*}- and KTN^{*} label holders.

Recommended tools to process idents (mounting frames, metal tab, metal hook) are listed in „Accessories“.

SPECIFICATIONS

- 22.00 – 176.00 °F
- Polyvinyl chloride (PVC)
- V0
- Holder frame AK is recommended for mounting.
- MZ assembly aid, available in various sizes.

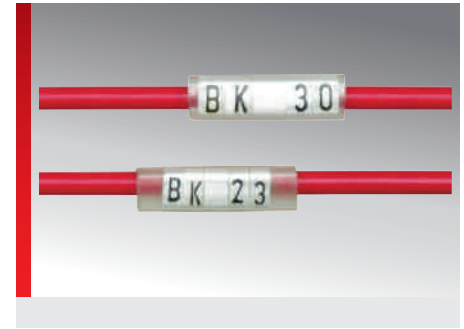
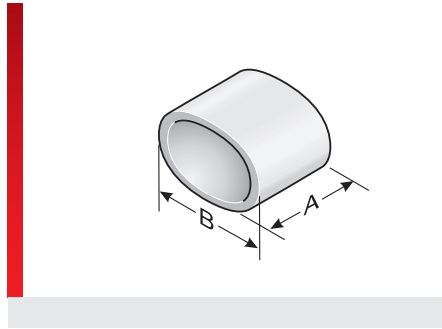
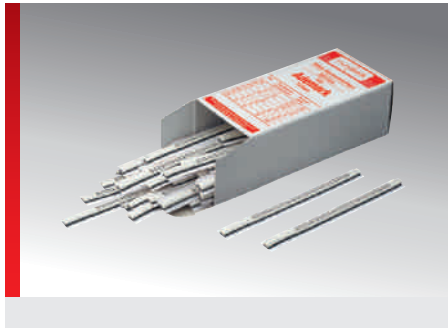


Type	Part number	Color	Pack qty.
Upper case letters			
A	86131811	White	1000.00
B	86131812	White	1000.00
C	86131813	White	1000.00
D	86131814	White	1000.00
E	86131815	White	1000.00
F	86131816	White	1000.00
G	86131817	White	1000.00
H	86131818	White	1000.00
I	86131819	White	1000.00
J	86131820	White	1000.00
K	86131821	White	1000.00
L	86131822	White	1000.00
M	86131823	White	1000.00
N	86131824	White	1000.00
O	86131825	White	1000.00
P	86131826	White	1000.00
Q	86131827	White	1000.00
R	86131828	White	1000.00
S	86131829	White	1000.00
T	86131830	White	1000.00

Labels BK23 withe (Continued...)

Type	Part number	Color	Pack qty.
U	86131831	White	1000.00
V	86131832	White	1000.00
W	86131833	White	1000.00
X	86131834	White	1000.00
Y	86131835	White	1000.00
Z	86131836	White	1000.00
Lower case letters			
a	86131837	White	1000.00
b	86131838	White	1000.00
c	86131839	White	1000.00
d	86131840	White	1000.00
e	86131841	White	1000.00
f	86131842	White	1000.00
g	86131843	White	1000.00
h	86131844	White	1000.00
i	86131845	White	1000.00
j	86131846	White	1000.00
k	86131847	White	1000.00
l	86131848	White	1000.00
m	86131849	White	1000.00
n	86131850	White	1000.00
o	86131851	White	1000.00
p	86131852	White	1000.00
q	86131853	White	1000.00
r	86131854	White	1000.00
s	86131855	White	1000.00
t	86131856	White	1000.00
u	86131857	White	1000.00
v	86131858	White	1000.00
w	86131859	White	1000.00
x	86131860	White	1000.00
y	86131861	White	1000.00
z	86131862	White	1000.00
Numbers			
0	86131810	White	1000.00
1	86131877	White	1000.00
2	86131878	White	1000.00
3	86131879	White	1000.00
4	86131880	White	1000.00
5	86131881	White	1000.00
6	86131882	White	1000.00

Labels BK23 withe (Continued...)

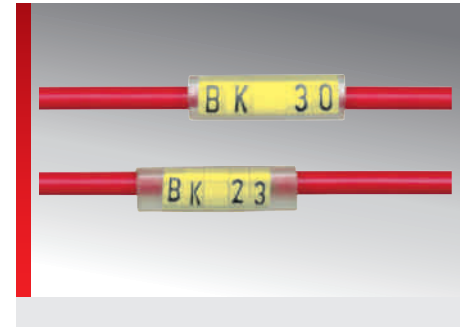
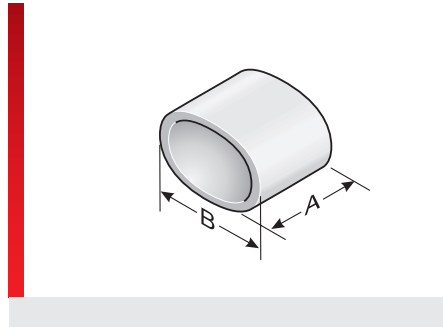


Single wire, cable, and conduit labeling

Type	Part number	Color	Pack qty.
7	86131883	White	1000.00
8	86131884	White	1000.00
9	86131885	White	1000.00
Signs			
+	86131863	White	1000.00
-	86131864	White	1000.00
/	86131865	White	1000.00
=	86131866	White	1000.00
.	86131867	White	1000.00
*	86131868	White	1000.00
:	86131869	White	1000.00
Special characters			
Left arrow	86131870	White	1000.00
Right arrow	86131871	White	1000.00
AC voltage	86131872	White	1000.00
Earth symbol	86131873	White	1000.00
Star connection	86131874	White	1000.00
Delta connection	86131875	White	1000.00
Blank space			
Blank	86131876	White	1000.00

Font colors red, yellow, green, brown, as well as special characters upon request

Labels BK23 yellow



PRODUCT INFORMATION

Pre-inscribed murr-fix idents made from special PVC. The individual labels come on plastic strips, each containing 20 labels.

BK 23: Label width 0.09 inch (A); Label height 0.16 inch (B)
Font width 0.06 inch; font height 0.14 inch;
black lettering

Suitable for KT^{*}-, KTH^{*}- and KTH/Q^{*} sleeves, as well as KM^{*}-, KKM^{*}-, KMH^{*}-, KMH/Q^{*}- and KTN^{*} label holders.

Recommended tools to process idents (mounting frames, metal tab, metal hook) are listed in „Accessories“.

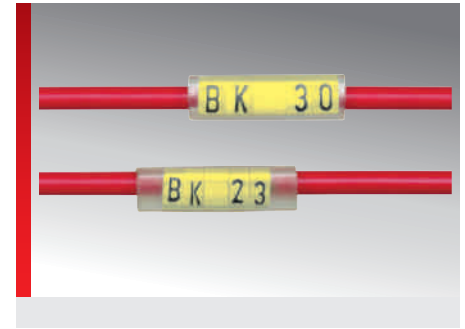
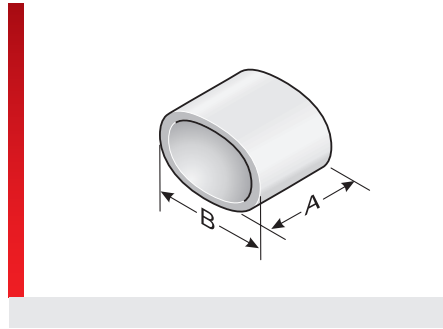
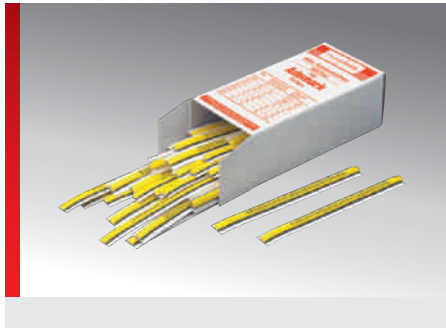
SPECIFICATIONS

- 22.00 – 176.00 °F
- Polyvinyl chloride (PVC)
- V0
- Holder frame AK is recommended for mounting.
- MZ assembly aid, available in various sizes.

Type	Part number	Color	Pack qty.
Upper case letters			
A	86132012	Yellow	1000.00
B	86132014	Yellow	1000.00
C	86132016	Yellow	1000.00
D	86132018	Yellow	1000.00
E	86132020	Yellow	1000.00
F	86132022	Yellow	1000.00
G	86132024	Yellow	1000.00
H	86132026	Yellow	1000.00
I	86132028	Yellow	1000.00
J	86132030	Yellow	1000.00
K	86132032	Yellow	1000.00
L	86132034	Yellow	1000.00
M	86132036	Yellow	1000.00
N	86132038	Yellow	1000.00
O	86132040	Yellow	1000.00
P	86132042	Yellow	1000.00
Q	86132044	Yellow	1000.00
R	86132046	Yellow	1000.00
S	86132048	Yellow	1000.00
T	86132050	Yellow	1000.00

Single wire, cable, and conduit labeling

Labels BK23 yellow (Continued...)



Single wire, cable, and conduit labeling

Type	Part number	Color	Pack qty.
U	86132052	Yellow	1000.00
V	86132054	Yellow	1000.00
W	86132056	Yellow	1000.00
X	86132058	Yellow	1000.00
Y	86132060	Yellow	1000.00
Z	86132062	Yellow	1000.00
Lower case letters			
a	86132064	Yellow	1000.00
b	86132066	Yellow	1000.00
c	86132068	Yellow	1000.00
d	86132070	Yellow	1000.00
e	86132072	Yellow	1000.00
f	86132074	Yellow	1000.00
g	86132076	Yellow	1000.00
h	86132078	Yellow	1000.00
i	86132080	Yellow	1000.00
j	86132082	Yellow	1000.00
k	86132084	Yellow	1000.00
l	86132086	Yellow	1000.00
m	86132088	Yellow	1000.00
n	86132090	Yellow	1000.00
o	86132092	Yellow	1000.00
p	86132094	Yellow	1000.00
q	86132096	Yellow	1000.00
r	86132098	Yellow	1000.00
s	86132100	Yellow	1000.00
t	86132102	Yellow	1000.00
u	86132104	Yellow	1000.00
v	86132106	Yellow	1000.00
w	86132108	Yellow	1000.00
x	86132110	Yellow	1000.00
y	86132112	Yellow	1000.00

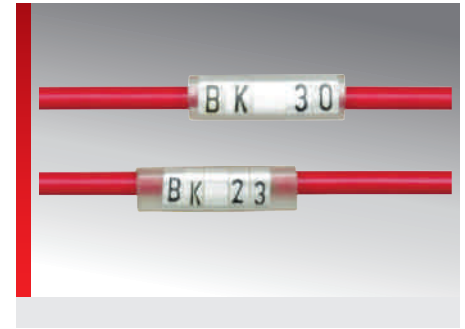
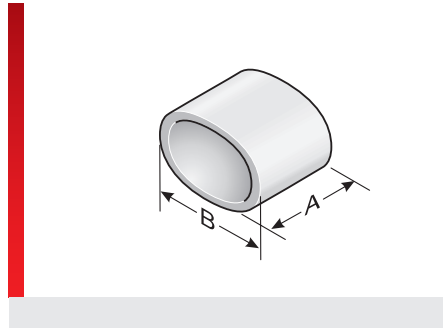
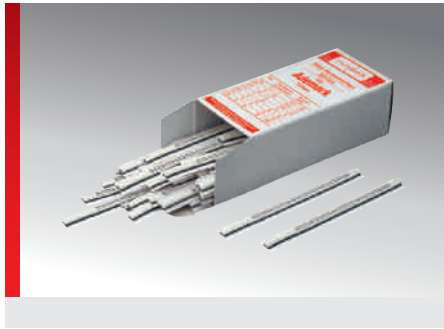
Labels BK23 yellow (Continued...)

Type	Part number	Color	Pack qty.
z	86132114	Yellow	1000.00
Numbers			
0	86132010	Yellow	1000.00
1	86132144	Yellow	1000.00
2	86132146	Yellow	1000.00
3	86132148	Yellow	1000.00
4	86132150	Yellow	1000.00
5	86132152	Yellow	1000.00
6	86132154	Yellow	1000.00
7	86132156	Yellow	1000.00
8	86132158	Yellow	1000.00
9	86132160	Yellow	1000.00
Signs			
+	86132116	Yellow	1000.00
-	86132118	Yellow	1000.00
/	86132120	Yellow	1000.00
=	86132122	Yellow	1000.00
.	86132124	Yellow	1000.00
*	86132126	Yellow	1000.00
:	86132128	Yellow	1000.00
Special characters			
Left arrow	86132130	Yellow	1000.00
Right arrow	86132132	Yellow	1000.00
AC voltage	86132134	Yellow	1000.00
Earth symbol	86132136	Yellow	1000.00
Star connection	86132138	Yellow	1000.00
Delta connection	86132140	Yellow	1000.00
Blank space			
Blank	86132142	Yellow	1000.00
Font colors red, yellow, green, brown, as well as special characters upon request			



Single wire, cable, and conduit labeling

Labels BK30 withe



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

Pre-inscribed murr-fix idents made from special PVC. The individual labels come on plastic strips, each containing 20 labels.

BK 30: Label width 0.12 inch (A); Label height 0.16 inch (B)
Font width 0.08 inch; font height 0.14 inch; black lettering

Suitable for KT^{*}-, KTH^{*}- and KTH/Q^{*} sleeves, as well as KM^{*}-, KKM^{*}-, KMH^{*}-, KMH/Q^{*}- and KTN^{*} label holders.

Recommended tools to process idents (mounting frames, metal tab, metal hook) are listed in „Accessories“.

SPECIFICATIONS

- 22.00 – 176.00 °F
- Polyvinyl chloride (PVC)
- V0
- Holder frame AK is recommended for mounting.
- MZ assembly aid, available in various sizes.

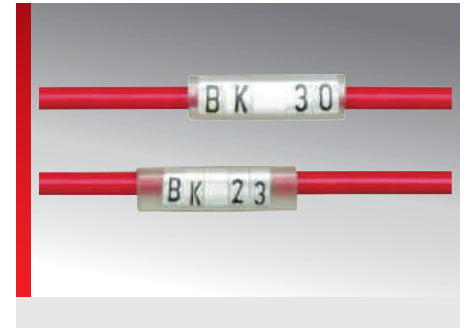
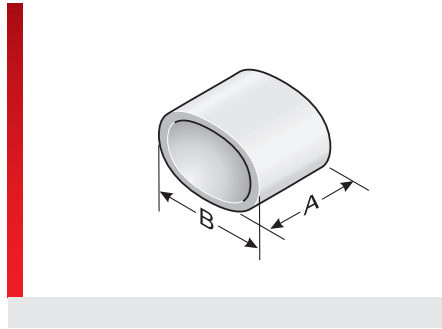
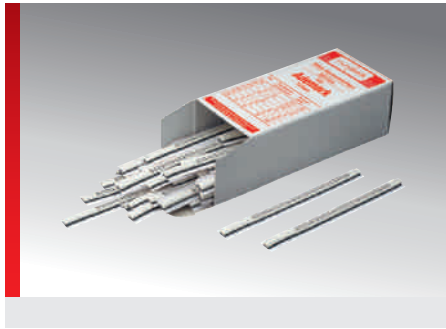


Type	Part number	Color	Pack qty.
Upper case letters			
A	86131211	White	1000.00
B	86131212	White	1000.00
C	86131213	White	1000.00
D	86131214	White	1000.00
E	86131215	White	1000.00
F	86131216	White	1000.00
G	86131217	White	1000.00
H	86131218	White	1000.00
I	86131219	White	1000.00
J	86131220	White	1000.00
K	86131221	White	1000.00
L	86131222	White	1000.00
M	86131223	White	1000.00
N	86131224	White	1000.00
O	86131225	White	1000.00
P	86131226	White	1000.00
Q	86131227	White	1000.00
R	86131228	White	1000.00
S	86131229	White	1000.00
T	86131230	White	1000.00

Labels BK30 withe (Continued...)

Type	Part number	Color	Pack qty.
U	86131231	White	1000.00
V	86131232	White	1000.00
W	86131233	White	1000.00
X	86131234	White	1000.00
Y	86131235	White	1000.00
Z	86131236	White	1000.00
Lower case letters			
a	86131237	White	1000.00
b	86131238	White	1000.00
c	86131239	White	1000.00
d	86131240	White	1000.00
e	86131241	White	1000.00
f	86131242	White	1000.00
g	86131243	White	1000.00
h	86131244	White	1000.00
i	86131245	White	1000.00
j	86131246	White	1000.00
k	86131247	White	1000.00
l	86131248	White	1000.00
m	86131249	White	1000.00
n	86131250	White	1000.00
o	86131251	White	1000.00
p	86131252	White	1000.00
q	86131253	White	1000.00
r	86131254	White	1000.00
s	86131255	White	1000.00
t	86131256	White	1000.00
u	86131257	White	1000.00
v	86131258	White	1000.00
w	86131259	White	1000.00
x	86131260	White	1000.00
y	86131261	White	1000.00
z	86131262	White	1000.00
Numbers			
0	86131210	White	1000.00
1	86131278	White	1000.00
2	86131279	White	1000.00
3	86131280	White	1000.00
4	86131281	White	1000.00
5	86131282	White	1000.00
6	86131283	White	1000.00

Labels BK30 withe (Continued...)

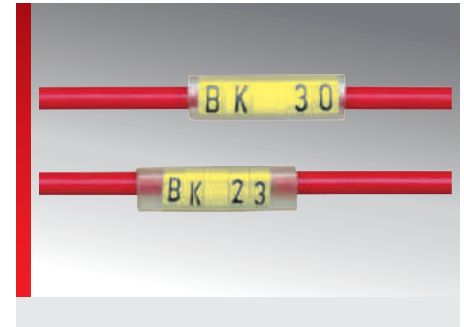
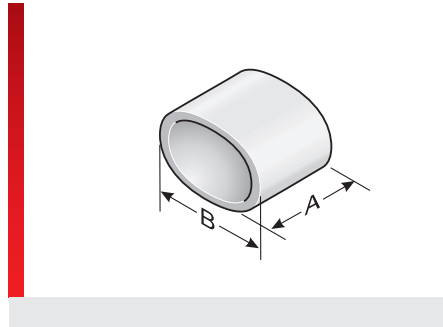
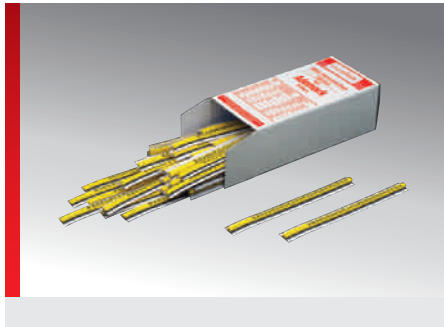


Single wire, cable, and conduit labeling

Type	Part number	Color	Pack qty.
7	86131284	White	1000.00
8	86131285	White	1000.00
9	86131286	White	1000.00
Signs			
+	86131264	White	1000.00
-	86131265	White	1000.00
/	86131266	White	1000.00
=	86131267	White	1000.00
.	86131268	White	1000.00
*	86131269	White	1000.00
:	86131270	White	1000.00
Special characters			
Left arrow	86131271	White	1000.00
Right arrow	86131272	White	1000.00
AC voltage	86131273	White	1000.00
Earth symbol	86131274	White	1000.00
Star connection	86131275	White	1000.00
Delta connection	86131276	White	1000.00
Blank space			
Blank	86131277	White	1000.00

Font colors red, yellow, green, brown, as well as special characters upon request

Labels BK30 yellow



PRODUCT INFORMATION

Pre-inscribed murr-fix idents made from special PVC. The individual labels come on plastic strips, each containing 20 labels.

BK 30: Label width 0.12 inch (A); Label height 0.16 inch (B)
Font width 0.08 inch; font height 0.14 inch;
black lettering

Suitable for KT^{*}-, KTH^{*}- and KTH/Q^{*} sleeves, as well as KM^{*}-, KKM^{*}-, KMH^{*}-, KMH/Q^{*}- and KTN^{*} label holders.

Recommended tools to process idents (mounting frames, metal tab, metal hook) are listed in „Accessories“.

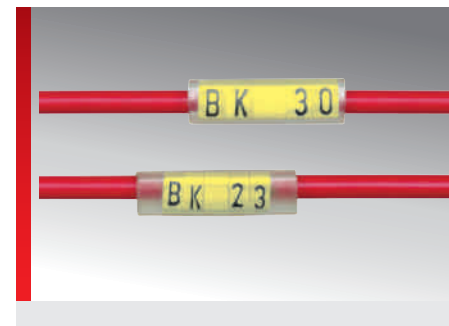
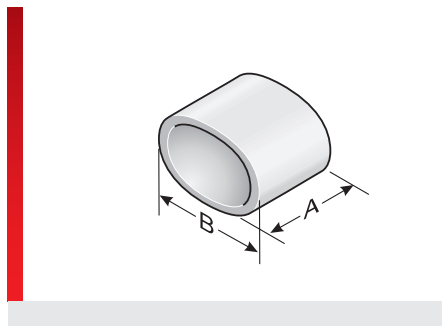
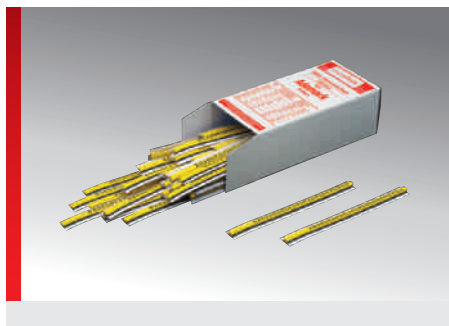
SPECIFICATIONS

- 22.00 – 176.00 °F
- Polyvinyl chloride (PVC)
- V0
- Holder frame AK is recommended for mounting.
- MZ assembly aid, available in various sizes.

Type	Part number	Color	Pack qty.
Upper case letters			
A	86131411	Yellow	1000.00
B	86131412	Yellow	1000.00
C	86131413	Yellow	1000.00
D	86131414	Yellow	1000.00
E	86131415	Yellow	1000.00
F	86131416	Yellow	1000.00
G	86131417	Yellow	1000.00
H	86131418	Yellow	1000.00
I	86131419	Yellow	1000.00
J	86131420	Yellow	1000.00
K	86131421	Yellow	1000.00
L	86131422	Yellow	1000.00
M	86131423	Yellow	1000.00
N	86131424	Yellow	1000.00
O	86131425	Yellow	1000.00
P	86131426	Yellow	1000.00
Q	86131427	Yellow	1000.00
R	86131428	Yellow	1000.00
S	86131429	Yellow	1000.00
T	86131430	Yellow	1000.00

Single wire, cable, and conduit labeling

Labels BK30 yellow (Continued...)



Single wire, cable, and conduit labeling

Type	Part number	Color	Pack qty.
U	86131431	Yellow	1000.00
V	86131432	Yellow	1000.00
W	86131433	Yellow	1000.00
X	86131434	Yellow	1000.00
Y	86131435	Yellow	1000.00
Z	86131436	Yellow	1000.00
Lower case letters			
a	86131437	Yellow	1000.00
b	86131438	Yellow	1000.00
c	86131439	Yellow	1000.00
d	86131440	Yellow	1000.00
e	86131441	Yellow	1000.00
f	86131442	Yellow	1000.00
g	86131443	Yellow	1000.00
h	86131444	Yellow	1000.00
i	86131445	Yellow	1000.00
j	86131446	Yellow	1000.00
k	86131447	Yellow	1000.00
l	86131448	Yellow	1000.00
m	86131449	Yellow	1000.00
n	86131450	Yellow	1000.00
o	86131451	Yellow	1000.00
p	86131452	Yellow	1000.00
q	86131453	Yellow	1000.00
r	86131454	Yellow	1000.00
s	86131455	Yellow	1000.00
t	86131456	Yellow	1000.00
u	86131457	Yellow	1000.00
v	86131458	Yellow	1000.00
w	86131459	Yellow	1000.00
x	86131460	Yellow	1000.00
y	86131461	Yellow	1000.00

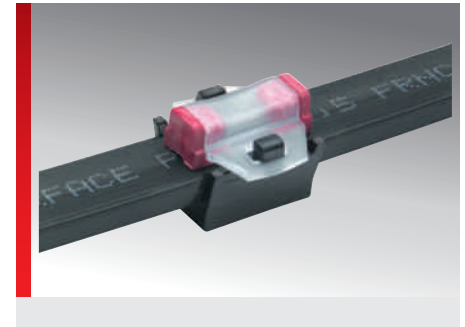
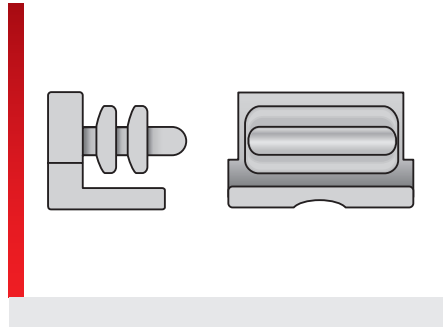
Labels BK30 yellow (Continued...)

Type	Part number	Color	Pack qty.
z	86131462	Yellow	1000.00
Numbers			
0	86131410	Yellow	1000.00
1	86131610	Yellow	1000.00
2	86131611	Yellow	1000.00
3	86131612	Yellow	1000.00
4	86131613	Yellow	1000.00
5	86131614	Yellow	1000.00
6	86131615	Yellow	1000.00
7	86131616	Yellow	1000.00
8	86131617	Yellow	1000.00
9	86131618	Yellow	1000.00
Signs			
+	86131463	Yellow	1000.00
-	86131464	Yellow	1000.00
/	86131465	Yellow	1000.00
=	86131466	Yellow	1000.00
.	86131467	Yellow	1000.00
*	86131468	Yellow	1000.00
:	86131469	Yellow	1000.00
Special characters			
Left arrow	86131470	Yellow	1000.00
Right arrow	86131471	Yellow	1000.00
AC voltage	86131472	Yellow	1000.00
Earth symbol	86131473	Yellow	1000.00
Star connection	86131474	Yellow	1000.00
Delta connection	86131475	Yellow	1000.00
Blank space			
Blank	86131476	Yellow	1000.00

Font colors red, yellow, green, brown, as well as special characters upon request

Single wire, cable, and conduit labeling

Sealing plug KM



Single wire, cable, and conduit labeling

PRODUCT INFORMATION

The KM sealing plugs for the KM and KMH sleeves are available in 0.16 inch, 0.35 inch and 0.59 inch width and are water tight.

The seal provides long-term protection of the required labeling throughout the wet areas of the plant.

The sealing plugs are available in a wide variety of colors in order to identify different media or in-house specifications.

SPECIFICATIONS

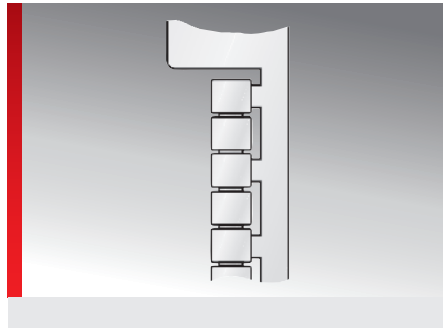
- 40.00 – 212.00 °F
- TPE
- V0
- Media distinction with color code
- For labeling in wet areas

Type	Part number	Color	RAL equiv.	Pack qty.
4 mm (0.16 inch) width				
KM 4 Plug	86321214	Yellow	1018	100.00
KM 4 Plug	86321212	Red	2012	100.00
KM 4 Plug	86321216	Green	6018	100.00
KM 4 Plug	86321218	Blue	5012	100.00
KM 4 Plug	86321210	black	9004	100.00
9 mm (0.35 inch) width				
KM 9 Plug	86321224	Yellow	1018	100.00
KM 9 Plug	86321222	Red	2012	100.00
KM 9 Plug	86321226	Green	6018	100.00
KM 9 Plug	86321228	Blue	5012	100.00
KM 9 Plug	86321220	black	9004	100.00
15 mm (0.59 inch) width				
KM 15 Plug	86321234	Yellow	1018	100.00
KM 15 Plug	86321232	Red	2012	100.00
KM 15 Plug	86321236	Green	6018	100.00
KM 15 Plug	86321238	Blue	5012	100.00
KM 15 Plug	86321230	black	9004	100.00



Terminal block labeling

Type BEC



Terminal block labeling

PRODUCT INFORMATION

BEC - for terminal manufacturers **Beckhoff**. 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, without the need for additional organizational systems.

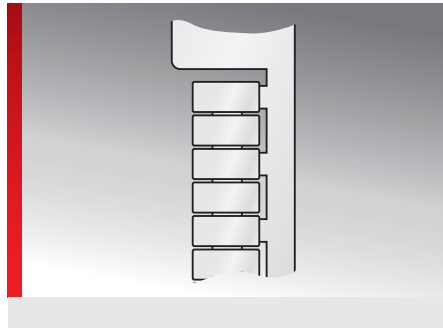
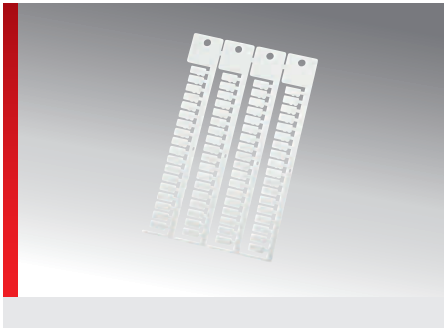
SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Individual and strip mounting

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Soft-ware Type	Pack qty.
BEC 5/5-5	86401840	White	9016	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	265	1100.00
BEC 5/5-5	86401841	Yellow	1018	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	266	1100.00
BEC 5/5-5	86401845	Green	6018	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	259	1100.00
BEC 5/5-5	86401844	Red	2012	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	269	1100.00
BEC 5/5-5	86401842	Blue	5012	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	267	1100.00
BEC 5/5-5	86401843	Orange	2011	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	268	1100.00

* Specifications of the label size / printable area is shown in Width x Length.





Typ CAB








PRODUCT INFORMATION

CAB - for terminal manufacturers **Cabur**.
 High-quality, halogen-free, snap-in label plates for individual mounting needs.
 The large printable area at the top allows room for individual project and terminal block reference, without the need for additional organizational systems.

SPECIFICATIONS

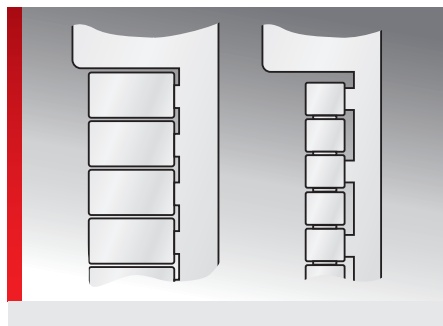
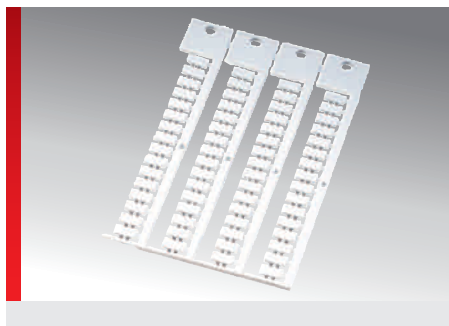
-  -40.00 – 284.00 °F
-  Polycarbonate (PC)
-  V0
-  Single installation

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Soft-ware Type	Pack qty.
CAB 5/10	86403001	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	72.00	GP4	310	1008.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KAB



Terminal block labeling

PRODUCT INFORMATION

KAB - for terminal manufacturers **Allen Bradley, ABB Entelec, Lütze, Woertz** and **Weidmüller (WDU, WPU)**.
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, without the need for additional organizational systems.

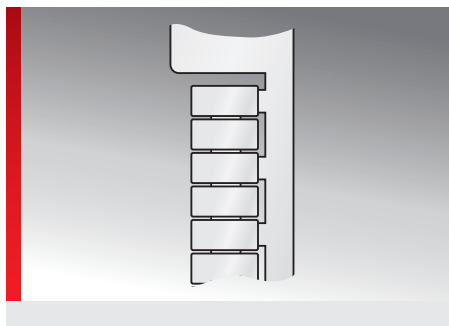
SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Individual and strip mounting

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Software Type	Pack qty.
Single labels											
KAB 6/12	86402014	White	9016	0.24 x 0.47	0.24 x 0.47	6 / 1	4.00	72.00	GP4	112	1000.00
5 mm (0.20 inch)-grid strip											
KAB 5/5.4-5	86402004	White	9016	0.2 x 0.21	0.2 x 0.21	3 / 1	5.00	110.00	GP5	55	1430.00
KAB 5/9-5	86402006	White	9016	0.2 x 0.35	0.2 x 0.35	5 / 1	4.00	88.00	GP4	110	1400.00
KAB 5/12-5	86402008	White	9016	0.2 x 0.47	0.2 x 0.47	6 / 1	4.00	88.00	GP4	111	1400.00
6 mm (0.24 inch)-grid strip											
KAB 6/9-6: White	86402010	White	9016	0.24 x 0.35	0.24 x 0.35	5 / 1	4.00	72.00	GP4	50	1000.00
KAB 6/10-6: White	86402022	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	72.00	GP4	56	1000.00
KAB 6/12-6: White	86402012	White	9016	0.24 x 0.47	0.24 x 0.47	6 / 1	4.00	72.00	GP4	51	1000.00
8 mm (0.31 inch)-grid strip											
KAB 8/9-8	86402016	White	9016	0.31 x 0.35	0.31 x 0.35	5 / 2	4.00	52.00	GP4	53	1040.00
KAB 8/12-8	86402018	White	9016	0.31 x 0.47	0.31 x 0.47	6 / 2	4.00	52.00	GP4	54	1040.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KET



PRODUCT INFORMATION

KET - for terminal manufacturers **ABB**, **ABB Entelec** and **Schneider**.
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 organizational systems.

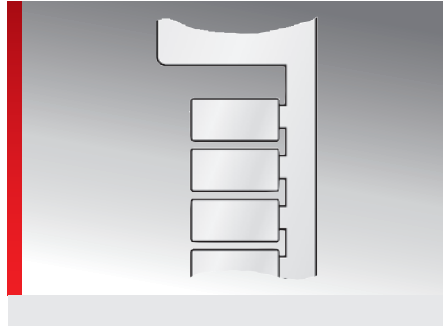
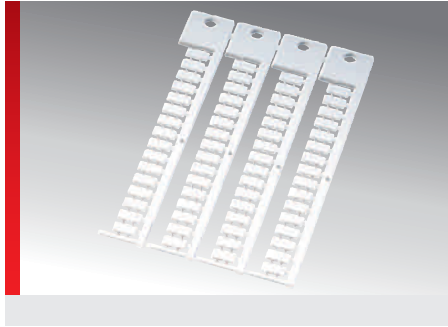
SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Individual and strip mounting

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Software Type	Pack qty.
5 mm (0.20 inch)-grid strip											
KET 5/10-5	86402610	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	84.00	GP4E	121	1428.00
KET SNK 5/12-5	86402612	White	9016	0.2 x 0.47	0.2 x 0.47	6 / 1	4.00	80.00	GP4E	124	2000.00
6 mm (0.24 inch)-grid strip											
KET 6/10-6	86402620	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	72.00	GP4E	122	2016.00
KET SNK 6/12-6	86402622	White	9016	0.24 x 0.47	0.24 x 0.47	6 / 1	4.00	60.00	GP4E	125	1500.00
8 mm (0.31 inch)-grid strip											
KET 8/10-8	86402630	White	9016	0.31 x 0.39	0.31 x 0.39	5 / 2	4.00	56.00	GP4E	123	1512.00
KET SNK 8/12-8	86402632	White	9016	0.31 x 0.47	0.31 x 0.47	6 / 2	4.00	40.00	GP4E	126	1000.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KLG












Terminal block labeling

PRODUCT INFORMATION

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

SPECIFICATIONS

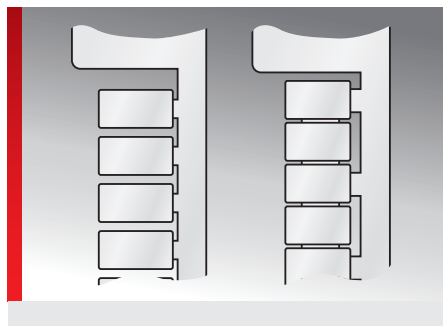
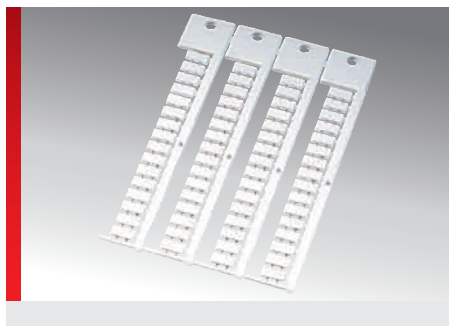
-  -40.00 – 284.00 °F
-  Polycarbonate (PC)
-  V0
-  Single installation

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Soft-ware Type	Pack qty.
KLG 5/10	86421022	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	64.00	GP4	98	1024.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KMR



PRODUCT INFORMATION

KMR - for terminal manufacturers **Weidmüller**, **Conta Clip**, **ABB Entelec**, **Klemsan**, **Schlegel** and **Wago**.

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, without the need for additional organizational systems.

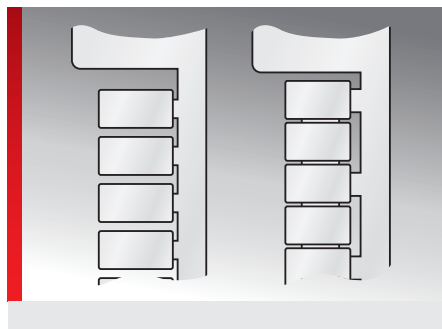
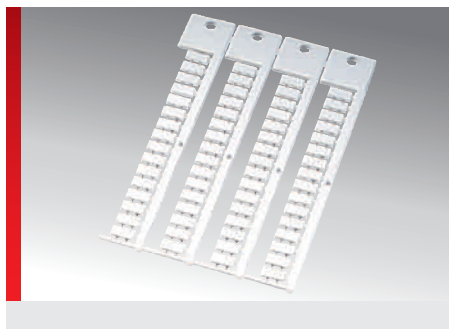
Label plates designated as „0.20 - 0.24 inch pitch strips“ can be adapted to terminal block widths of 0.20 or 0.24 inch by means of a flexible connection.

SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Individual and strip mounting

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Software Type	Pack qty.
Single labels											
KMR 5/10	86401010	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	64.00	GP4	30	1000.00
KMR 5/15	86401014	White	9016	0.2 x 0.59	0.2 x 0.59	8 / 1	4.00	64.00	GP4	31	1000.00
KMR 6/10	86401018	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	64.00	GP4	32	1000.00
KMR 6/15	86401022	White	9016	0.24 x 0.59	0.24 x 0.59	8 / 1	4.00	64.00	GP4	33	1000.00
KMR 5/10 FA	86401032	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	64.00	GP4	160	1024.00
3.5 mm (0.14 inch)-grid strip											
KMR 3.5/7.5-3.5	86401034	White	9016	0.14 x 0.3	0.14 x 0.3	4 / 1	4.00	120.00	GP4	161	1200.00
KMR 3.5/10-3.5	86401046	White	9016	0.14 x 0.39	0.14 x 0.39	5 / 1			GP4	423	1200.00
5 mm (0.20 inch)-grid strip											
KMR 5/7.5-5	86401026	White	9016	0.2 x 0.3	0.2 x 0.3	4 / 1	4.00	88.00	GP4	34	1400.00
KMR 5/7.5-5	86401036	Yellow	1018	0.2 x 0.3	0.2 x 0.3	4 / 1	4.00	88.00	GP4	34G	1400.00
KMR 5/7.5-5	86401044	Red	2012	0.2 x 0.3	0.2 x 0.3	4 / 1	4.00	88.00	GP4	262	1400.00
KMR 5/7.5-5	86401040	Blue	5012	0.2 x 0.3	0.2 x 0.3	4 / 1	4.00	88.00	GP4	260	1400.00
KMR 5/7.5-5	86401042	Orange	2011	0.2 x 0.3	0.2 x 0.3	4 / 1	4.00	88.00	GP4	261	1400.00
KMR 5/10-5	86401012	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	88.00	GP4	35	1400.00
KMR 5/15-5	86401016	White	9016	0.2 x 0.59	0.2 x 0.59	8 / 1	4.00	88.00	GP4	36	1400.00
KMR 5/15-5	86401017	Yellow	1018	0.2 x 0.59	0.2 x 0.59	8 / 1	4.00	88.00	GP4	36G	1400.00

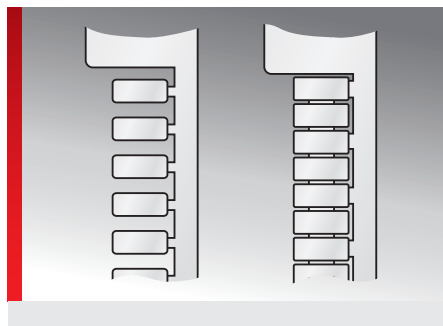
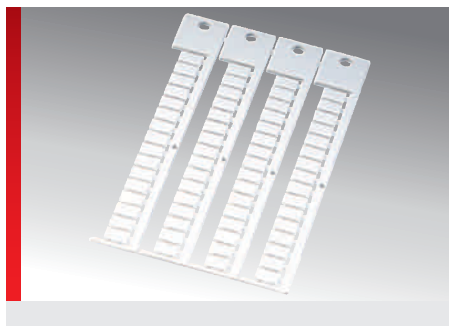
Type KMR (Continued...)



Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Software Type	Pack qty.
5.1 mm (0.20 inch)-grid strip											
KMR 5/5-5.1	86401011	White	9016	0.2 x 0.2	0.2 x 0.2	2 / 1	4.00	100.00	GP4	319	1100.00
KMR 5/7.5-5.1	86401027	White	9016	0.2 x 0.3	0.2 x 0.3	4 / 1	4.00	84.00	GP4	276	1008.00
KMR 5/7.5-5.1	86401037	Yellow	1018	0.2 x 0.3	0.2 x 0.3	4 / 1	4.00	84.00	GP4	286	1008.00
KMR 5/7.5-5.1	86401043	Orange	2011	0.2 x 0.3	0.2 x 0.3	4 / 1	4.00	84.00	GP4	296	1008.00
KMR 5/10-5.1	86401013	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	84.00	GP4	277	1008.00
KMR 5/15-5.1	86401015	White	9016	0.2 x 0.59	0.2 x 0.59	8 / 1	4.00	84.00	GP4	278	1008.00
5 – 6 mm (0.20 – 0.24 inch) pitch strips											
KMR 5/10-5...6	86401038	White	9016	0.16 x 0.39	0.16 x 0.39	5 / 1	4.00	88.00	GP4	35U	1400.00
6 mm (0.24 inch)-grid strip											
KMR 6/10-6	86401020	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	72.00	GP4	37	1000.00
KMR 6/15-6	86401024	White	9016	0.24 x 0.59	0.24 x 0.59	8 / 1	4.00	72.00	GP4	38	1000.00
6.1 mm (0.24 inch)-grid strip											
KMR 6/10-6.1	86401021	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	72.00	GP4	37A	1008.00
KMR 6/15-6.1	86401025	White	9016	0.24 x 0.59	0.24 x 0.59	8 / 1	4.00	72.00	GP4	38A	1008.00
6.7 mm (0.26 inch)-grid strip											
KMR 6/15-6.7	86401028	White	9016	0.24 x 0.59	0.24 x 0.59	8 / 1	4.00	64.00	GP4	39	1700.00
8 mm (0.31 inch)-grid strip											
KMR 8/10-8	86401033	White	9016	0.31 x 0.39	0.31 x 0.39	5 / 2	4.00	52.00	GP4	320	780.00
10 mm (0.39 inch)-grid strip											
KMR 10/10-10	86401031	White	9016	0.39 x 0.39	0.39 x 0.39	5 / 2	4.00	44.00	GP4	31A	660.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KPX



PRODUCT INFORMATION

KPX - for terminal manufacturers **Phoenix**, **ABB Entelec**, **Murrelektronik**, **Siemens** and **Wago**.

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, without the need for additional organizational systems.

Label plates designated as „0.20 - 0.24 inch-pitch strips“ can be adapted to terminal block widths of 0.20 inch or 0.24 inch by means of an extension spring joint.

Label plates designated as „Universal strip“ can be used on various different terminal block widths.

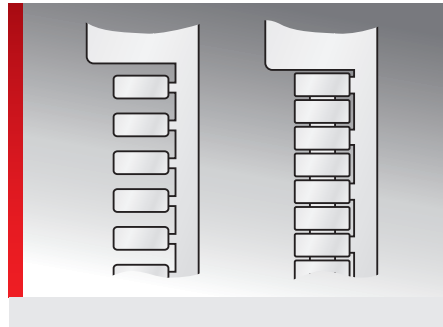
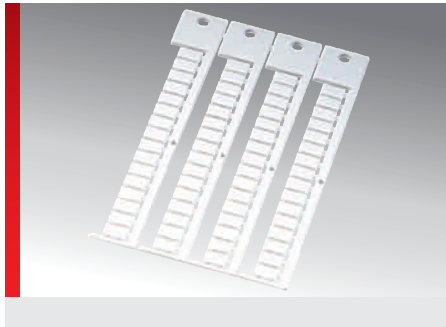
The 6/180 labeling strips can be printed with a laser printer set up for the required terminal block width.

SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Individual and strip mounting

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Software Type	Pack qty.
Single labels											
KPX 4/10	86401224	White	9016	0.16 x 0.39	0.16 x 0.39	5 / 1	4.00	64.00	GP4	97	1024.00
KPU 5/10	86401231	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	72.00	GP4	42E	1008.00
KPX 6/10	86401214	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	64.00	GP4	40	1000.00
KPX 6/15	86401218	White	9016	0.24 x 0.59	0.24 x 0.59	8 / 1	4.00	64.00	GP4	41	1000.00
4 mm (0.16 inch)-grid strip											
KPX 4/10-4	86401226	White	9016	0.16 x 0.39	0.16 x 0.39	5 / 1	4.00	100.00	GP4	98	1400.00
5 mm (0.20 inch)-grid strip											
KPX 5/10-5	86401210	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	88.00	GP4	42	1400.00
KPX 5/10-5	86401211	Yellow	1018	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	88.00	GP4	42G	1400.00
KPX 5/15-5	86401212	White	9016	0.2 x 0.59	0.2 x 0.59	8 / 1	4.00	88.00	GP4	43	1400.00
5.2 mm (0.20 inch)-grid strip											
KPX 5/10-5.2	86401208	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	84.00	GP4	279	1008.00
KPX 5/10-5.2	86401209	Yellow	1018	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	84.00	GP4	311	1008.00
KPX 5/15-5.2	86401213	White	9016	0.2 x 0.59	0.2 x 0.59	8 / 1	4.00	84.00	GP4	312	1008.00

Type KPX (Continued...)



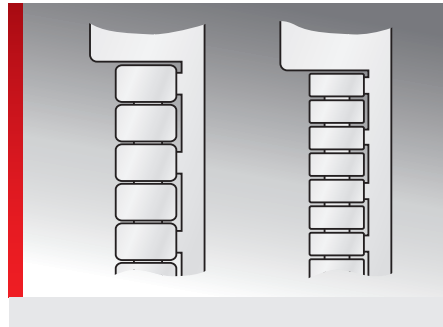
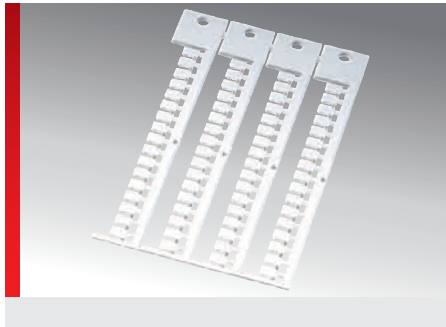
Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Software Type	Pack qty.
5 – 6 mm (0.20 – 0.24 inch) pitch strips											
KPX 5/10-5...6	86401242	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	88.00	GP4	42U	1400.00
6 mm (0.24 inch)-grid strip											
KPX 6/10-6	86401216	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	72.00	GP4	44	1000.00
KPX 6/15-6	86401220	White	9016	0.24 x 0.59	0.24 x 0.59	8 / 1	4.00	72.00	GP4	45	1000.00
6.2 mm (0.24 inch)-grid strip											
KPX 6/10-6.2	86401217	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	68.00	GP4	308	1020.00
KPX 6/15-6.2	86401219	White	9016	0.24 x 0.59	0.24 x 0.59	8 / 1	4.00	68.00	GP4	309	1020.00
6.8 mm (0.27 inch)-grid strip											
KPX 6/10-6.8	86401222	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	64.00	GP4	46	1000.00
8.2 mm (0.32 inch)-grid strip											
KPX 8/10-8.2	86401256	White	9016	0.31 x 0.39	0.31 x 0.39	5 / 2	4.00	52.00	GP4	48A	520.00
10 mm (0.39 inch)-grid strip											
KPX 10/10-10	86401258	White	9016	0.39 x 0.39	0.39 x 0.39	5 / 2	4.00	44.00	GP4	41A	528.00
3.5 mm (0.14 inch) pitch strips in a row, flat foot (ZS)											
KPX 3.5/5-3.5 ZS	86401223	White	9016	0.14 x 0.2	0.14 x 0.2	2 / 1	5.00	150.00	GP5	416	3000.00
4.2 mm (0.17 inch) pitch strips in a row, flat foot (ZS)											
KPX 4.2/5-4.2 ZS	86401248	White	9016	0.17 x 0.2	0.17 x 0.2	2 / 1	5.00	125.00	GP5	47Z	2500.00
5 mm (0.20 inch) pitch strips in a row, flat foot (ZS)											
KPX 5/5-5 ZS	86401232	White	9016	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	42Z	2090.00
KPX 5/5-5 ZS	86401233	Yellow	1018	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	43G	2090.00
KPX 5/7.5-5 ZS	86401254	White	9016	0.2 x 0.3	0.2 x 0.3	4 / 1	4.00	88.00	GP4	49Z	1408.00
KPX 5/10-5 ZS	86401234	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	88.00	GP4	43Z	1400.00

Type KPX (Continued...)

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Software Type	Pack qty.
5 – 6 mm (0.20 – 0.24 inch) pitch strips in a row, flat foot (ZS)											
KPX 5/10-5...6 ZS	86401244	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	88.00	GP4	43U	1400.00
6 mm (0.24 inch) pitch strips in a row, flat foot (ZS)											
KPX 6/5-6 ZS	86401228	White	9016	0.2 x 0.24	0.2 x 0.24	3 / 1	5.00	90.00	GP5	44Z	2070.00
KPX 6/10-6 ZS	86401236	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	72.00	GP4	45Z	1000.00
Single labels, flat foot (ZS)											
KPX 8,2/5 ZS	86401252	White	9016	0.32 x 0.2	0.32 x 0.2	2 / 2	5.00	65.00	GP5	48Z	1040.00
KPX 10/5 ZS	86401246	White	9016	0.39 x 0.2	0.39 x 0.2	2 / 2	5.00	55.00	GP5	41Z	1320.00
12 mm (0.47 inch) pitch strips in a row, flat foot (ZS)											
KPX 12/5-12 ZS	86401240	White	9016	0.2 x 0.47	0.2 x 0.47	6 / 1	5.00	45.00	GP5	46Z	1080.00
Universal strips, flat foot (ZS)											
KPX U/5-ZS	86401230	White	9016	0.2 x 0.17	0.2 x 0.17	2 / 1	5.00	100.00	GP5	180	2000.00
Labeling strip for plotters and laser printers											
KPX 6/180	86402510	White	9016	0.24 x 7.09	0.24 x 7.09	100 / 1	1.00	20.00		180	100.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KSI













Terminal block labeling

PRODUCT INFORMATION

KSI - for terminal manufacturers **Siemens**. 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, without the need for additional organizational systems.

SPECIFICATIONS

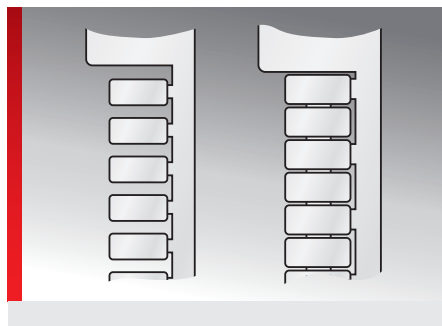
-  -40.00 – 284.00 °F
-  Polycarbonate (PC)
-  V0
-  Individual and strip mounting

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Software Type	Pack qty.
Single labels											
KSI 5/7	86401610	White	9016	0.2 x 0.28	0.2 x 0.28	3 / 1	4.00	68.00	GP4E	47	1020.00
KSI 5/10	86401612	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	68.00	GP4E	48	1020.00
5 mm (0.2 inch)-grid strip											
KSI 5/7-5	86401620	White	9016	0.2 x 0.28	0.2 x 0.28	3 / 1	4.00	80.00	GP4E	133	1200.00
KSI 5/10-5	86401624	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	80.00	GP4E	132	1200.00
6 mm (0.24 inch)-grid strip											
KSI 6/7-6	86401630	White	9016	0.24 x 0.28	0.24 x 0.28	3 / 1	4.00	72.00	GP4E	131	1080.00
KSI 6/10-6	86401634	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	72.00	GP4E	130	1080.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KWI



PRODUCT INFORMATION

KWI - for terminal manufacturers **Wieland**, **ABB Entrellec**, **D+E**, **Legrand**, **Phoenix**, **Sprecher + Schuh**, **Telemecanique** and **Wago**.

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, without the need for additional organizational systems.

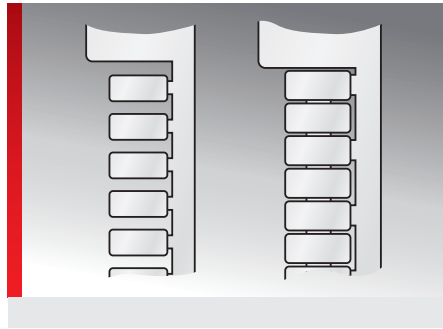
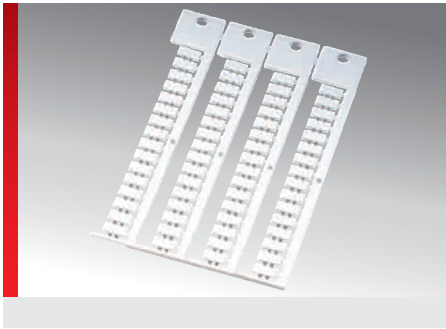
Label plates designated as „0.20 - 0.24 inch-pitch strips“ can be adapted to terminal block widths of 0.20 inch or 0.24 inch by means of an extension spring joint.

SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Individual and strip mounting

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Software Type	Pack qty.
Single labels											
KWI 5/10	86401410	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	64.00	GP4	20	1000.00
KWI 5/15	86401414	White	9016	0.2 x 0.59	0.2 x 0.59	8 / 1	4.00	64.00	GP4	21	1000.00
KWI 6/10	86401420	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	64.00	GP4	22	1000.00
KWI 6/15	86401426	White	9016	0.24 x 0.59	0.24 x 0.59	8 / 1	4.00	64.00	GP4	23	1000.00
KWI 6/15	86401450	Orange	2011	0.24 x 0.59	0.24 x 0.59	8 / 1	4.00	64.00	GP4	230	1000.00
5 mm (0.20 inch)-grid strip											
KWI 5/8,6-5	86401418	White	9016	0.2 x 0.34	0.2 x 0.34	4 / 1	4.00	88.00	GP4	24	1400.00
KWI 5/10-5	86401412	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	88.00	GP4	25	1400.00
KWI 5/15-5	86401416	White	9016	0.2 x 0.59	0.2 x 0.59	8 / 1	4.00	88.00	GP4	26	1400.00
5 – 6 mm (0.20 – 0.24 inch) pitch strips											
KWI 5/10-5...6	86401432	White	9016	0.2 x 0.39	0.16 x 0.39	5 / 1	4.00	88.00	GP4	25U	1400.00
6 mm (0.24 inch)-grid strip											
KWI 6/8,2-6	86401430	White	9016	0.24 x 0.32	0.24 x 0.32	4 / 1	4.00	72.00	GP4	270	1000.00
KWI 6/10-6	86401422	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	72.00	GP4	27	1000.00
KWI 6/15-6	86401428	White	9016	0.24 x 0.59	0.24 x 0.59	8 / 1	4.00	72.00	GP4	28	1000.00

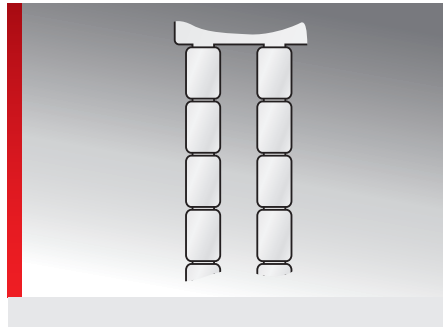
Type KWI (Continued...)



Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Software Type	Pack qty.
6.8 mm (0.27 inch)-grid strip											
KWI 6/10-6.8	86401424	White	9016	0.24 x 0.39	0.24 x 0.39	5 / 1	4.00	64.00	GP4	29	1000.00

* Specifications of the label size / printable area is shown in Width x Length.






Type TK



PRODUCT INFORMATION

Polyamide label for insertion in transformer terminals.
Suitable for: transformer terminal blocks with nail clip.

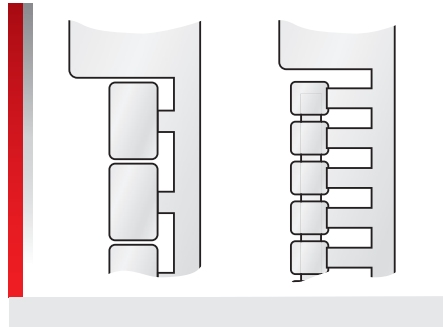
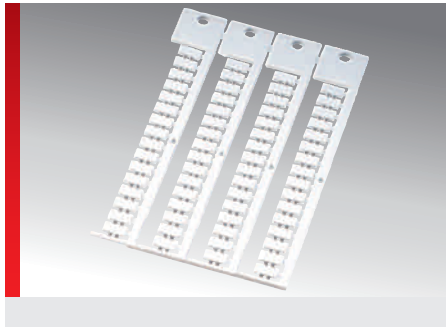
SPECIFICATIONS

-  -40.00 – 212.00 °F
-  Polyamide (PA)
-  V2
-  Individual and strip mounting
- 

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Software Type	Pack qty.
7 mm (0.28 inch)-grid strip											
TK 4,5-7,0	86402412	White	9016	0.18 x 0.28	0.18 x 0.28	3 / 1	5.00	50.00	GP1	90	450.00
7.5 mm (0.30 inch)-grid strip											
TK 4,5-7,5	86402410	White	9016	0.18 x 0.3	0.18 x 0.3	4 / 1	5.00	50.00	GP1	91	450.00

* Specifications of the label size / printable area is shown in Width x Length.

Type WGO



PRODUCT INFORMATION

WGO - for terminal manufacturers **Wago**, **Beckhoff** and **ABB Entelec**.
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, without the need for additional organizational systems.

SPECIFICATIONS

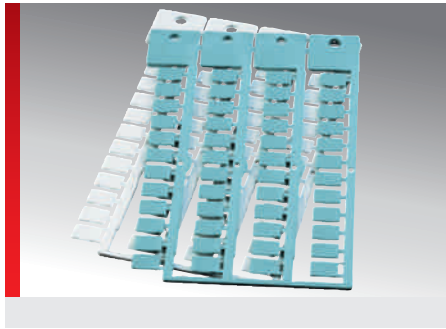
- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Individual and strip mounting

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	Trees per frame	No. Per frame	Base plate	Software Type	Pack qty.
4 mm (0.16 inch) pitch strips in a row, with contoured foot											
WGO 4/10-4 F	86401808	White	9016	0.16 x 0.39	0.16 x 0.39	5 / 1	4.00	100.00	GP4	162	1300.00
5 mm (0.20 inch)-grid strip											
WGO 5/10-5	86401810	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	88.00	GP4	49	2000.00
5 mm (0.20 inch) pitch strips in a row, with contoured foot											
WGO 5/10-5 F	86401813	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	4.00	88.00	GP4	139	1400.00
5 mm (0.20 inch) pitch strips in a row (can be applied to a 6 mm (0.24 inch) pitch pattern)											
WGO 5/5-5	86401814	White	9016	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	142	1100.00
WGO 5/5-5	86401830	Yellow	1018	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	143	1100.00
WGO 5/5-5	86401832	Red	2012	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	144	1100.00
WGO 5/5-5	86401834	Green	6018	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	145	1100.00
WGO 5/5-5	86401836	Blue	5012	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	146	1100.00
WGO 5/5-5	86401838	Orange	2011	0.2 x 0.2	0.2 x 0.2	2 / 1	5.00	110.00	GP5	147	1100.00
5 mm (0.20 inch) pitch strips in a row (can be applied to a 6 mm (0.24 inch) pitch pattern)											
WGO 5/10-5...6 F	86401812	White	9016	0.17 x 0.39	0.17 x 0.39	5 / 1	4.00	88.00	GP4	141	1400.00

* Specifications of the label size / printable area is shown in Width x Length.



Type SKS



PRODUCT INFORMATION

SKS - for devices made by **Siemens** (Series **SIRIUS**) and devices by **Lütze**. High-quality, halogen-free label plates to snap into components of the Siemens SIRIUS series.

SKS ET 200 - for devices made by **Siemens** (Series **SIMATIC**). High-quality, halogen-free label plates to snap

into components of the Siemens SIMATIC series.

The large printable area at the top of the SKS and SKS ET 200 labels allows room to reference individual projects and components, dispensing with the need for additional organizational systems.

SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Switch gear labeling



Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
Label for Siemens SIRIUS series										
SKS 10x7 Sirius	86401652	White	9016	0.28 x 0.39	0.28 x 0.39	5 / 2	48.00	GP4	96	816.00
SKS 10x7 Sirius	86401668	Yellow	1018	0.28 x 0.39	0.28 x 0.39	5 / 2	48.00	GP4	136	816.00
SKS 10x7 Sirius	86401662	Pastel turquoise	6034	0.28 x 0.39	0.28 x 0.39	5 / 2	48.00	GP4	096	816.00
SKS 11x4 Sirius	86401658	White	9016	0.16 x 0.43	0.16 x 0.43	6 / 1	80.00	GP4	134	1200.00
SKS 11x4 Sirius	86401666	Yellow	1018	0.16 x 0.43	0.16 x 0.43	6 / 1	80.00	GP4	137	1200.00
SKS 11x4 Sirius	86401660	Pastel turquoise	6034	0.16 x 0.43	0.16 x 0.43	6 / 1	80.00	GP4	135	1200.00
SKS 20x7 Sirius	86401656	White	9016	0.28 x 0.79	0.28 x 0.79	11 / 2	20.00	GP4	95	340.00
SKS 20x7 Sirius	86401669	Yellow	1018	0.28 x 0.79	0.28 x 0.79	11 / 2	20.00	GP4	138	340.00
SKS 20x7 Sirius	86401664	Pastel turquoise	6034	0.28 x 0.79	0.28 x 0.79	11 / 2	20.00	GP4	095	340.00
Label for Siemens SIRIUS series, self-adhesive										
SKSK 20x7 Sirius	86401657	White	9016	0.28 x 0.79	0.28 x 0.79	11 / 2	20.00	GP4	95A	340.00
SKSK 20x7 Sirius	86401653	Pastel turquoise	6034	0.28 x 0.79	0.28 x 0.79	11 / 2	20.00	GP4	95B	340.00
Label for Siemens SIMATIC series										
SKS 15x10 ET 200	86401670	White	9016	0.39 x 0.59	0.39 x 0.59	8 / 2	20.00	GP4	437	680.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KSS



PRODUCT INFORMATION

KSS - for devices made by **ABB, Conta Clip, Escha, Festo, IFM, Pepperl + Fuchs, Siemens** and **Turk**.
High-quality, halogen-free label plates to snap into devices.

The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.
Mounting adapters make the labels usable for component location labeling.

SPECIFICATIONS

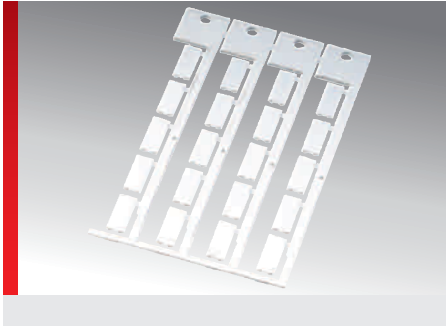
- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Switch gear labeling

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
KSS 10x8 for ASI	86421006	White	9016	0.31 x 0.39	0.31 x 0.39	5 / 2	40.00	GP4	77	800.00
KSS 10x8 for ASI	86421008	Pastel turquoise	6034	0.31 x 0.39	0.31 x 0.39	5 / 2	40.00	GP4	78	800.00
KSS 20x9 ¹⁾	86421010	White	9016	0.35 x 0.79	0.35 x 0.79	11 / 2	20.00	GP4	67	380.00
KSS 20x9 ¹⁾	86421011	Yellow	1018	0.35 x 0.79	0.35 x 0.79	11 / 2	20.00	GP4	67G	380.00
KSS 20x9 ¹⁾	86421009	Pastel turquoise	6034	0.35 x 0.79	0.35 x 0.79	11 / 2	20.00	GP4	67P	380.00

* Specifications of the label size / printable area is shown in Width x Length.

¹⁾ Device location marking in conjunction with label holder BS 9, BS 10 or label rail BZS





Type KSA








PRODUCT INFORMATION

KSA - for devices made by **AEG** and **Square D**.
 High-quality, halogen-free label plates to snap into devices.
 The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.

SPECIFICATIONS

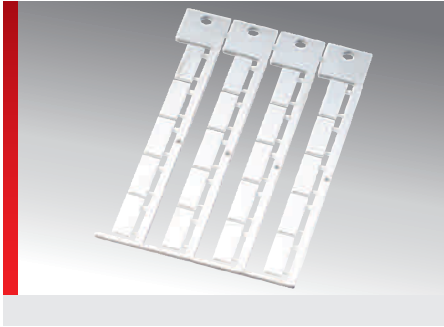
-  -40.00 – 284.00 °F
-  Polycarbonate (PC)
-  V0
-  Switch gear labeling

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
KSA 19x8	86421012	White	9016	0.31 x 0.75	0.31 x 0.75	10 / 2	20.00	GP4	70	380.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KTE



PRODUCT INFORMATION





KTE - for devices made by **ABB, IFM, Murr-elektronik** and **Telemecanique**.






High-quality, halogen-free label plates to snap into devices.

The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.

Mounting adapters make the labels usable for component location labeling.

SPECIFICATIONS

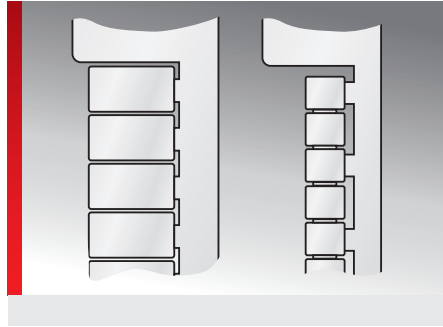
-  -40.00 – 284.00 °F
-  Polycarbonate (PC)
-  V0
-  Switch gear labeling

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
KTE 17x8	86421018	White	9016	0.31 x 0.67	0.31 x 0.67	9 / 2	20.00	GP4	73	340.00
KTE 21x8	86421014	White	9016	0.31 x 0.83	0.31 x 0.83	11 / 2	20.00	GP4	72	340.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KAB







PRODUCT INFORMATION






KAB - for devices made by **ABB, Allen Bradley** and **Finder**.

High-quality, halogen-free label plates to snap into devices.

The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.

SPECIFICATIONS

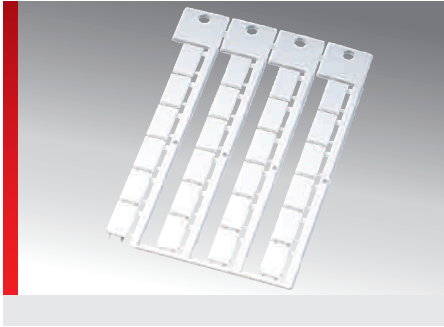
-  -40.00 – 284.00 °F
-  Polycarbonate (PC)
-  V0
-  Switch gear labeling

Type	Part number	Color	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
KAB 17x10	86421016	White	0.39 x 0.67	0.39 x 0.67	9 / 2	30.00	GP5	52	750.00

* Specifications of the label size / printable area is shown in Width x Length.

Type ABB



PRODUCT INFORMATION

ABB - for devices made by **ABB**, **Finder**, **Lumberg** and **Wago**.

High-quality, halogen-free label plates to snap into devices.

The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.

Mounting adapters make the labels usable for component location labeling.

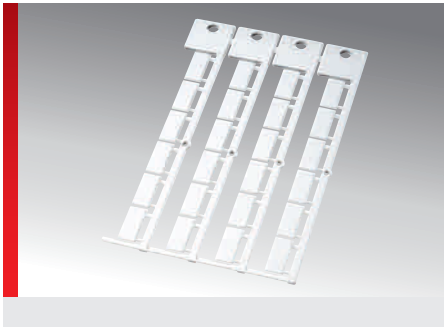
SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Switch gear labeling

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
ABB 17x9	86421020	White	9016	0.35 x 0.67	0.35 x 0.67	9 / 2	30.00	GP4	68	384.00
ABB 17x9	86421021	Pastel turquoise	6034	0.35 x 0.67	0.35 x 0.67	9 / 2	30.00	GP4	68P	384.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KMO



PRODUCT INFORMATION

KMO - for devices made by **Möller**, **Indramat** and **Murrelektronik**.

High-quality, halogen-free label plates to snap into devices.

The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.

SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Switch gear labeling



Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
KMO 17.5x8	86421070	White	9016	0.31 x 0.69	0.31 x 0.69	9 / 2	24.00	GP4	190	720.00

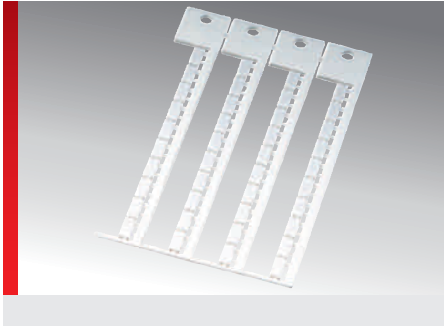
Installation adapter towards the DILER and DILET devices, for devices without auxiliary contacts

KMO adapter	86421074	White				1				380.00
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KSS 20x9 label plate required (please order separately)

* Specifications of the label size / printable area is shown in Width x Length.

Type KS







PRODUCT INFORMATION






KS - for devices made by **Escha, IFM, Lumberg, Murrelektronik, Pepperl + Fuchs** and **Turk**.

KS KDL/E For the KDL/E cable entry system by **Murrplastik**.

High-quality, halogen-free label plates to snap into devices.
The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.

SPECIFICATIONS

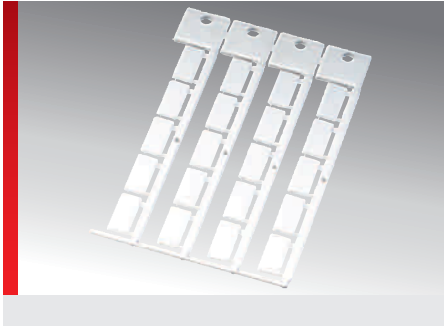
-  -40.00 – 284.00 °F
-  Polycarbonate (PC)
-  V0
-  Switch gear labeling

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
For devices by Escha, IFM, Lumberg, Murrelektronik, Pepperl + Fuchs and Turk										
KS 5/10	86402210	White	9016	0.2 x 0.39	0.2 x 0.39	5 / 1	40.00	GP4E	88	1000.00
For Murrplastik KDL/E cable entry system										
KS KDL/E	86421090	White	9016	0.23 x 3.86	0.23 x 3.86	54 / 1	4.00	GP4	290	100.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KSF



PRODUCT INFORMATION

KSF - for devices made by **Festo, Lumberg, Moeller, Murrelektronik** and **Pepperl + Fuchs**.

High-quality, halogen-free label plates to snap into devices.

The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.

Mounting adapters make the labels usable for component location labeling.

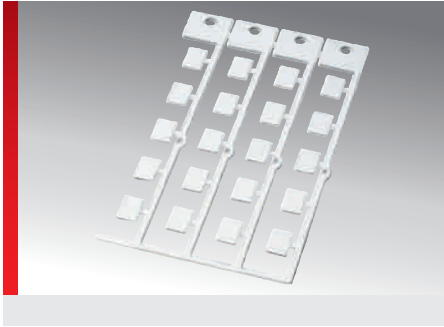
SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Switch gear and valve labeling

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
KSF 4.5x9	86421046	White	9016	0.18 x 0.35	0.18 x 0.35	5 / 1	80.00	GP4	176	1040.00
KSF 10x8	86421050	White	9016	0.31 x 0.39	0.31 x 0.39	5 / 2	44.00	none	175	440.00
KSF 20x9	86421042	White	9016	0.35 x 0.79	0.35 x 0.79	11 / 2	20.00	GP4	174	380.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KSL







PRODUCT INFORMATION






KSL - for devices made by **Bosch/Rexroth** and **Lumberg**.

High-quality, halogen-free label plates to snap into devices.

The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.

SPECIFICATIONS

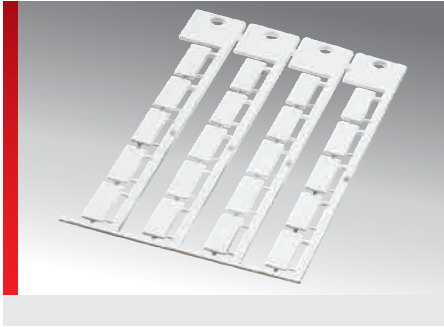
-  -40.00 – 284.00 °F
-  Polycarbonate (PC)
-  V0
-  Labeling of distribution boxes

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
KSL 12x9	86421060	White	9016	0.35 x 0.47	0.35 x 0.47	6 / 2	20.00	GP4	170	380.00
KSL 20x9	86421062	White	9016	0.35 x 0.79	0.35 x 0.79	11 / 2	20.00	GP4	171	380.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KES



PRODUCT INFORMATION





KES - for devices made by **Escha, Murrelektronik** and **Turck**.






High-quality, halogen-free label plates to snap into devices.

The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.

Mounting adapters make the labels usable for component location labeling.

SPECIFICATIONS

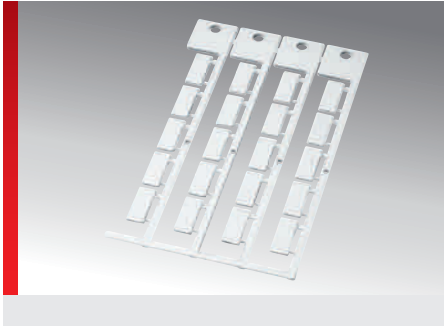
-  -40.00 – 284.00 °F
-  Polycarbonate (PC)
-  V0
-  Labeling of distribution boxes

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
KES 20x8	86421052	White	9016	0.31 x 0.79	0.31 x 0.79	11 / 2	20.00	GP4	99	380.00
KES 20x8	86421058	Yellow	1018	0.31 x 0.79	0.31 x 0.79	11 / 2	20.00	GP4	273	380.00
	86421057	Red	2012	0.31 x 0.79	0.31 x 0.79	11 / 2	20.00	GP4	443	380.00
	86421061	Green	6018	0.31 x 0.79	0.31 x 0.79	11 / 2	20.00	GP4	441	380.00
	86421059	Blue	5012	0.31 x 0.79	0.31 x 0.79	11 / 2	20.00	GP4	442	380.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KPF












PRODUCT INFORMATION

KPF - for devices made by **Pepperl + Fuchs**. High-quality, halogen-free label plates to snap into devices. The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.

Mounting adapters make the labels usable for component location labeling.

SPECIFICATIONS

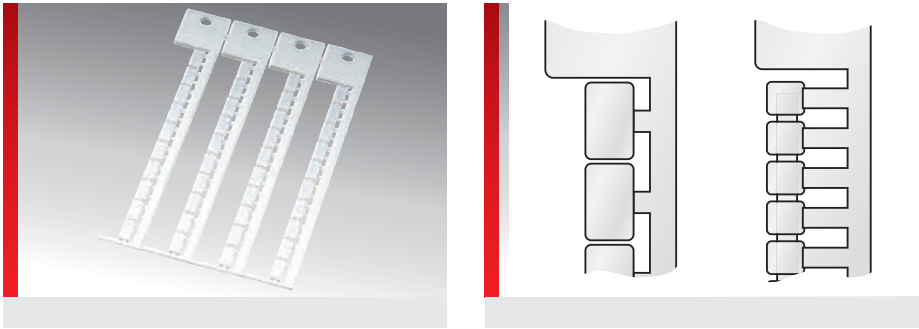
-  -40.00 – 284.00 °F
-  Polycarbonate (PC)
-  V0
-  Labeling of distribution boxes

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
KPF 18.5x8	86421054	White	9016	0.31 x 0.73	0.31 x 0.73	10 / 2	65.62	GP4	250	480.00

* Specifications of the label size / printable area is shown in Width x Length.

Type WGO







PRODUCT INFORMATION






WGO - for devices made by **Wago**, **Beckhoff** and **Euchner**.

High-quality, halogen-free label plates to snap into devices.

The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.

SPECIFICATIONS

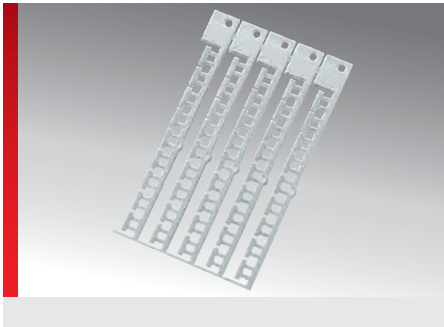
-  -40.00 – 284.00 °F
-  Polycarbonate (PC)
-  V0
-  For labeling equipment and connecting labeling

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
WGO 12/7	86401822	White	9016	0.28 x 0.47	0.28 x 0.47	6 / 2	36.00	GP4	140	750.00

* Specifications of the label size / printable area is shown in Width x Length.

Type B+R



PRODUCT INFORMATION

B&R - for B&R X20 switchgear.

High-quality, halogen-free label plates to snap into devices.

The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.

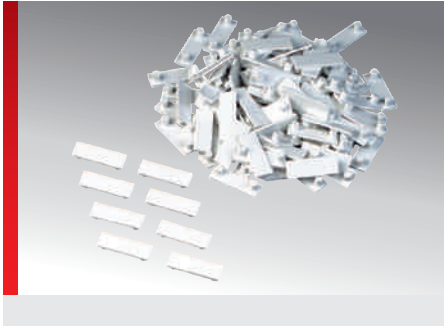
SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- For labeling equipment and connecting labeling

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
Terminal block marking										
B+R 12x3,3	86402800	White	9016	0.13 x 0.47	0.13 x 0.47	6 / 1	45.00	GP5	201	675.00
B+R 12x3,3	86402802	Red	2012	0.13 x 0.47	0.13 x 0.47	6 / 1	45.00	GP5	204	675.00
B+R 12x3,3	86402804	Blue	5012	0.13 x 0.47	0.13 x 0.47	6 / 1	45.00	GP5	203	675.00
Device marking										
B+R 12x6,7	86402810	White	9016	0.26 x 0.47	0.26 x 0.47	6 / 1	45.00	GP5	230	675.00

* Specifications of the label size / printable area is shown in Width x Length.

Type KSZ



PRODUCT INFORMATION

KSZ - for heavy plug connectors by **Harting**.
High-quality, halogen-free label plates for marking Harting connector housings (heavy connectors).

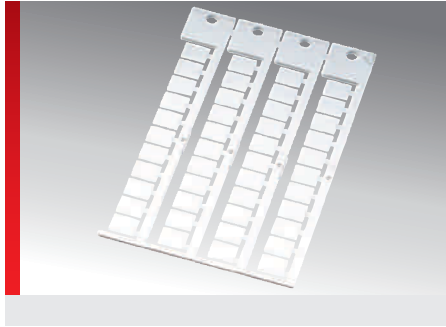
SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Connection labeling

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
KSZ 20x7	86421040	White	9016	0.28 x 0.79	0.28 x 0.79	11 / 2	20.00	GP1	200	100.00

* Specifications of the label size / printable area is shown in Width x Length.

KSK type (universal adhesive label)



PRODUCT INFORMATION

KSK type (universal adhesive label) - for devices by various manufacturers. High-quality, halogen-free adhesive label plates.

The large printable area at the top provides space for individual project and component reference, without the need to organize additional systems.

The flat construction allows the label holder to be used as a component location marker inside the top hat rail.

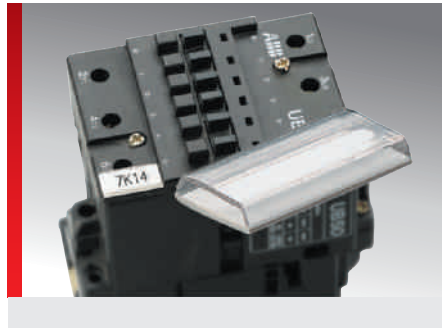
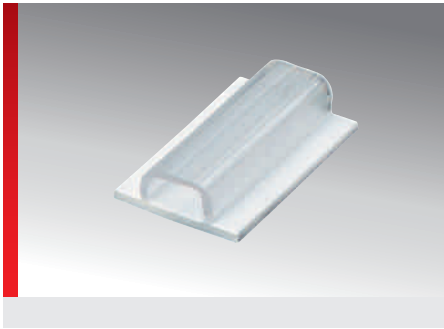
SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- Adhesive 468
- Equipment/equipment location labeling

Type	Part number	Color	RAL equiv.	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
KSK 11x9	86421034	White	9016	0.35 x 0.43	0.35 x 0.43	6 / 2	44.00	GP4	61	1400.00
KSK 11x9	86421035	Yellow	1018	0.35 x 0.43	0.35 x 0.43	6 / 2	44.00	GP4	61G	1400.00
KSK 11x9	86421039	Red	2012	0.35 x 0.43	0.35 x 0.43	6 / 2	44.00	GP4	61R	1400.00
KSK 15x9	86421036	White	9016	0.35 x 0.59	0.35 x 0.59	8 / 2	44.00	GP4	63	1400.00
KSK 15x9	86421037	Yellow	1018	0.35 x 0.59	0.35 x 0.59	8 / 2	44.00	GP4	63G	1400.00
KSK 15x9	86421041	Red	2012	0.35 x 0.59	0.35 x 0.59	8 / 2	44.00	GP4	63R	1400.00
KSK 20x9	86421038	White	9016	0.35 x 0.79	0.35 x 0.79	11 / 2	20.00	GP4	66	680.00
KSK 20x9	86421088	Yellow	1018	0.35 x 0.79	0.35 x 0.79	11 / 2	20.00	GP4	66G	680.00
KSK 20x9	86421043	Red	2012	0.35 x 0.79	0.35 x 0.79	11 / 2	20.00	GP4	66R	680.00
KSK 35x9	86421045	White	9016	0.35 x 1.38	0.35 x 1.38	19 / 2	12.00	GP4	58W	360.00
KSK 35x9	86421047	Yellow	1018	0.35 x 1.38	0.35 x 1.38	19 / 2	12.00	GP4	58G	360.00
KSK 35x9	86421049	Red	2012	0.35 x 1.38	0.35 x 1.38	19 / 2	12.00	GP4	58R	360.00
KSK 70x9	86421051	White	9016	0.35 x 2.76	0.35 x 2.76	38 / 2	11.00	GP4	57W	330.00
KSK 70x9	86421053	Yellow	1018	0.35 x 2.76	0.35 x 2.76	38 / 2	11.00	GP4	57G	330.00
KSK 70x9	86421055	Red	2012	0.35 x 2.76	0.35 x 2.76	38 / 2	11.00	GP4	57R	330.00

* Specifications of the label size / printable area is shown in Width x Length.

KM 2/KM 20 type (adhesive holder)



PRODUCT INFORMATION

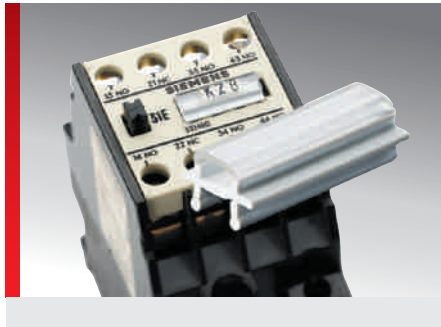
High-quality, halogen-free adhesive label holders. If the bonding surface is prepared properly the acrylic adhesive can form a permanent bond.

SPECIFICATIONS

- 40.00 – 140.00 °F
- Polyvinyl chloride (PVC)
- V0
- Adhesive 467

Type	Part number	Color	Length inch	Width inch	Recommended label Plate	label size inch	No. idents BK23 / BK30	Pack qty.
Self-adhesive (for rough surfaces)								
KM 02/16	86321046	White / Transparent	0.63	0.35	KS 4/x	0.16 x 0.63	6 / 5	1000.00
Self-adhesive (for smooth surfaces)								
KM 2/16	86321010	White / Transparent	0.63	0.35	KS 4/x	0.16 x 0.63	6 / 5	1000.00
KM 2/22	86321012	White / Transparent	0.87	0.35	KS 4/x	0.16 x 22.0	9 / 7	1000.00
KM 2/25	86321014	White / Transparent	0.98	0.35	KS 4/x	0.16 x 0.98	10 / 8	1000.00
KM 20	86321016	White / Transparent	0.79	0.39	KSO 20x9	0.35 x 0.79		1000.00

KM 6 type



PRODUCT INFORMATION

High-quality, transparent label holder for component labeling.
 Assembly is via snap-in action.
 Mounting adapters make the label holders usable for component location labeling.

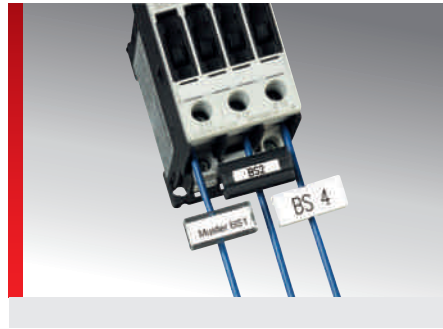
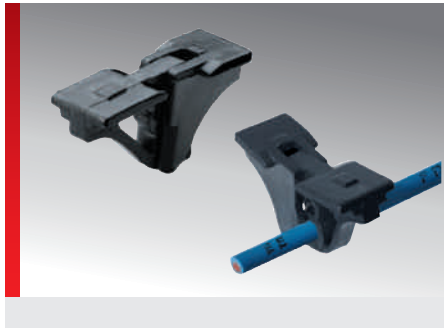
SPECIFICATIONS

- 40.00 – 140.00 °F
- Polyvinyl chloride (PVC)
- V0
-

Type	Part number	Color	Length inch	Width inch	Recommended label Plate	label size inch	No. idents BK23 / BK30	Pack qty.
KM 6/15	86321030	White / Transparent	0.59	0.24	KS 4/x	0.16 x 0.59	6 / 5	1000.00
KM 6/18	86321032	White / Transparent	0.71	0.24	KS 4/x	0.16 x 0.71	7 / 6	1000.00
KM 6/21	86321034	White / Transparent	0.83	0.24	KS 4/x	0.16 x 0.83	9 / 7	1000.00
KM 6/27	86321036	White / Transparent	1.06	0.24	KS 4/x	0.16 x 1.06	11 / 9	1000.00

Equipment/equipment location labeling

Type BS (BS labeling system)



PRODUCT INFORMATION

The BS labeling system consists of various components and is used for retrofitting labels for device locations or switchgear.

- **BS 1:** consists of the clamping piece BS 3, transparent top and 27 x 8 mm (1.06 x 0.31 inch) paper strip on a DIN A-4 sheet with perforated edges.
- **BS 2:** consists of the clamping piece BS 3 and transparent label holder KM 7 to retain

the KS 4/x series labels or BK inserts.

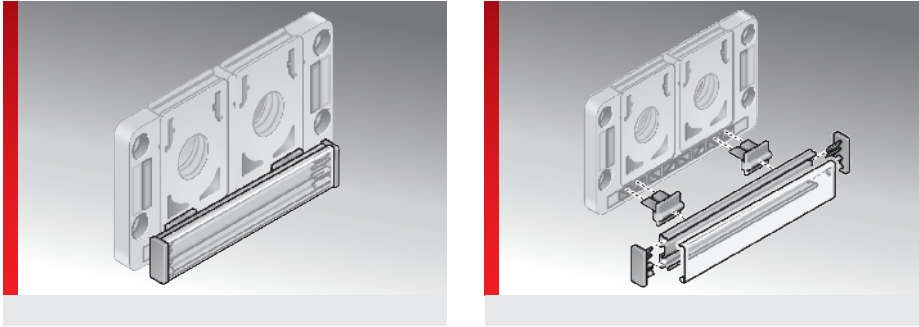
- **BS 3:** clamping piece for the transparent label holder KM 7 or for the BS 5 label.
- **BS 4:** consists of the clamping piece BS 3 and the BS 5 label.
- **BS 9 / BS 10:** Label holder for KSS 20x9 labels or for KM 6/18 transparent label holders with KS 4/18 label. Mounting is accomplished with a self-clamping (spring-loaded) foot.

SPECIFICATIONS

	-40.00 – 140.00 °F				
	Polyvinyl chloride (PVC) BS 5 label Polycarbonate (PC)				
	V0				

Type	Part number	Color	Application range from - to Ø inch	Core cross section from - to inch ²	Printable Area inch	No. idents BK23 / BK30	No. Per sheet	No. Per frame	Soft- ware Type	Pack qty.
BS 3 clamping wedge, with transparent top and DIN A4 paper strip										
BS 1	86281010	black	0.01 – 0.15	0.5 – 2.5						500.00
DIN A4 paper sheet with punched margin for BS 1										
Paper sheet	86281013	White			0.31 x 0.98		256.00		BSM	2560.00
Clamping piece BS 3 with transparent label KM 7: for KS 4/x or for idents BK										
BS 2	86281014	black	0.01 – 0.15	0.5 – 2.5	0.16 x 1.06	11 / 9				500.00
Clamping piece: for KM 7 transparent label holder or for BS 5 label										
BS 3	86281016	black	0.01 – 0.15	0.5 – 2.5						190.00
Clamping piece BS 3 with label BS 5										
BS 4	86281018	black	0.01 – 0.15	0.5 – 2.5	0.47 x 1.06			16.00	79	190.00
Label holder (self-clamping): for labels KSS 20x9 or for transparent label holders KM 6/18										
BS 9	86281024	black	0.16							50.00
BS 10	86281026	black	0.16 – 0.43							50.00

Type SKDL/E (for KDL/E cable entry system)



PRODUCT INFORMATION

Adapter set for KDL/E cable entry system

The labeling set for the KDL/E cable entry system was developed as a simple means of accommodating a great deal of labeling information in or on the KDL/E cable entry system.

Adapted to various cable entry systems, different versions are available.

The set consists of a holder, label rail for KS 9/x or KS 15/x labels, sealing plug and transparent cover.

An alternative to the adapter set

The KS KDL/E label, for direct mounting on the KDL/E cable entry system. (Item no. 86421090)

SPECIFICATIONS

	-40.00 – 176.00 °F
	Polyvinyl chloride (PVC)
	V0
	La belling system to cable entry system KDL/E



Type	Part number	Recommended label Plate	Pack qty.
BZS 9 SKDL/E 16	86301232	KS 9/x	1.00
BZS 9 SKDL/E 24	86301236	KS 9/x	1.00
BZS 15 SKDL/E 16	86301234	KS 15/x	1.00
BZS 15 SKDL/E 24	86301238	KS 15/x	1.00

BZS type (0.35 inch label rail)



PRODUCT INFORMATION

Label rail as a base holder for component location labeling. Can be riveted, screwed or glued. Pre-punched holes (distance between holes 3.94 inch; hole diameter 0.16 inch).

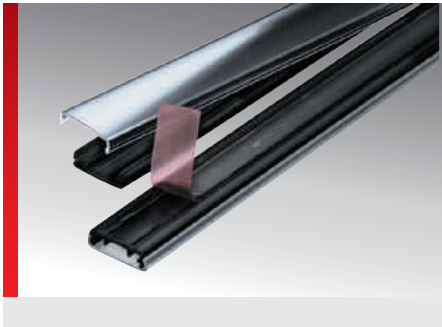
SPECIFICATIONS

- 40.00 – 176.00 °F
- Polyvinyl chloride (PVC)
- V0
- BZS K with adhesive 4930
BZS SK with adhesive 1780



Type	Part number	Color	Length inch	Width inch	Recommended label Plate	Pack qty.
With drilled holes						
BZS 37	86301010	Gray	1.46	0.35	KSO x/9	100.00
BZS 500	86301012	Gray	19.69	0.35	KSO x/9	10.00
BZS 600	86301014	Gray	23.62	0.35	KSO x/9	10.00
BZS 1000	86301016	Gray	39.37	0.35	KSO x/9	10.00
BZS 1300	86301017	Gray	51.18	0.35	KSO x/9	10.00
With drilled holes and adhesive strips as assembly aid						
BZS 500 K	86301018	Gray	19.69	0.35	KSO x/9	10.00
BZS 600 K	86301020	Gray	23.62	0.35	KSO x/9	10.00
BZS 1000 K	86301022	Gray	39.37	0.35	KSO x/9	10.00
BZS 1300 K	86301027	Gray	51.18	0.35	KSO x/9	10.00
Self-adhesive (no holes) for uneven surfaces (hammer enamel)						
BZS 500 SK	86301032	Gray	19.69	0.35	KSO x/9	10.00
BZS 600 SK	86301034	Gray	23.62	0.35	KSO x/9	10.00
BZS 1000 SK	86301036	Gray	39.37	0.35	KSO x/9	10.00

BZS labeling system



PRODUCT INFORMATION

The BZS system was developed as a simple means of accommodating a great deal of labeling information in or on the control cabinet.

The labeling rail with the snap-in labels provides vertical and horizontal designations on terminal blocks and other components. It may

be fitted on the top-hat rail, C-rail or the cable duct with a high degree of flexibility.

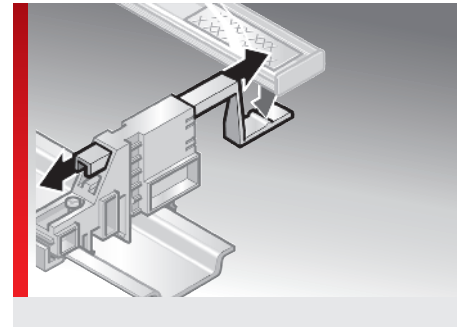
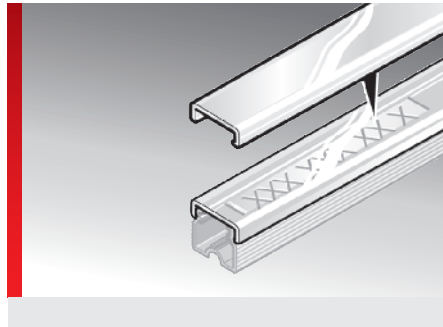
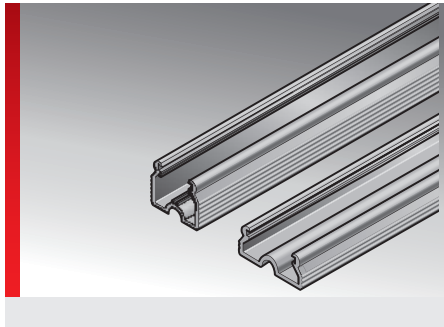
The label rails can be cut to any length. The BZS label rails are available in 0.35 inch and 0.59 inch widths.

SPECIFICATIONS

- 40.00 – 176.00 °F
- Polyvinyl chloride (PVC)
- V0
-

Type	Part number	Color	Length inch	Width inch	Recommended label Plate	Pack qty.
Label rail for mounting labels at 0.35 inch width						
BZS 09 - 500	86301222	black	19.69	0.35	KSO x/9	25.00
BZS 09 - 600	86301224	black	23.62	0.35	KSO x/9	25.00
BZS 09 - 1000	86301226	black	39.37	0.35	KSO x/9	25.00
BZS 09 - 1300	86301228	black	51.18	0.35	KSO x/9	25.00
Label rail for mounting labels at 0.59 inch width						
BZS 15 - 500	86301262	black	19.69	0.59	KS 15/x	25.00
BZS 15 - 600	86301264	black	23.62	0.59	KS 15/x	25.00
BZS 15 - 1000	86301266	black	39.37	0.59	KS 15/x	25.00
BZS 15 - 1300	86301268	black	51.18	0.59	KS 15/x	25.00

BZS labeling system accessories



PRODUCT INFORMATION

The BZS labeling system can be tailored to any labeling requirement, offering horizontal or vertical markings in control cabinets, labeling outside or inside control cabinets, any length of label carriers and any number of label plates.

SPECIFICATIONS

	-40.00 – 176.00 °F
	Polyamide (PA)
	V0

Type	Part number	Color	Pack qty.
End cap for label rail BZS 9			
End cap BZS 09	86301219	black	80.00
End cap for label rail BZS 15			
End cap BZS 15	86301259	black	80.00
Terminal base for mounting distance plate / indicator / spacer block			
Terminal socket	86301210	black	30.00
Distance plate for terminal socket			
Distance plate terminal socket	86301218	black	100.00
Indicator for mounting the label rail			
Indicator	86301212	black	100.00
Spacer for mounting label rail			
Spacer	86301214	black	100.00
Adapter for cable duct for mounting label rail			
Cable duct holder	86301216	black	100.00

BZS/F labeling system



PRODUCT INFORMATION

The BZS/F labeling system was developed as a simple means of accommodating a great deal of labeling information in or on the control cabinet.

The labeling rail with the snap-in labels provides vertical and horizontal designations on terminal blocks and other components. It may be fitted on the top-hat rail, C-rail or the cable duct with a high degree of flexibility.

The label rails can be cut to any length.

The BZS/F label rails are available in 9 mm (0.35 inch) and 15 mm (0.59 inch) widths.

- BZS/F: with pre-punched holes (distance between holes 3.94 inch; hole diameter 0.14 inch).
- BZS/F K: with pre-punched holes (distance between holes 3.94 inch; hole diameter 0.14 inch) and adhesive strip (adhesive 4930) as a mounting aid
- BZS/F SK: self-adhesive label rail (adhesive 1780) without drilled holes for uneven surfaces (hammered enamel)

SPECIFICATIONS

	-40.00 – 176.00 °F
	Polyvinyl chloride (PVC)
	V0
	BZS/F K with adhesive 4930 BZS/F SK with adhesive 1780

Type	Part number	Color	Length inch	Width inch	Recommended label Plate	Pack qty.
Label rail with drilled holes at 9 mm (0.35 inch) width						
BZS/F 09 - 500	86301634	black	19.69	0.35	KSO x/9	25.00
BZS/F 09 - 600	86301636	black	23.62	0.35	KSO x/9	25.00
BZS/F 09 - 1000	86301638	black	39.37	0.35	KSO x/9	25.00
BZS/F 09 - 1300	86301640	black	51.18	0.35	KSO x/9	25.00
Label rail with drilled holes and adhesive strips (adhesive 4930) as assembly aid at 9 mm (0.35 inch) width						
BZS/F 09 - 500 K	86301684	black	19.69	0.35	KSO x/9	25.00
BZS/F 09 - 600 K	86301686	black	23.62	0.35	KSO x/9	25.00
BZS/F 09 - 1000 K	86301688	black	39.37	0.35	KSO x/9	25.00
BZS/F 09 - 1300 K	86301690	black	51.18	0.35	KSO x/9	25.00
Self-adhesive label rail (adhesive 1780) without drilled holes for uneven surfaces (hammered enamel) at 9 mm (0.35 inch) width						
BZS/F 09 - 500 SK	86301654	black	19.69	0.35	KSO x/9	25.00
BZS/F 09 - 600 SK	86301656	black	23.62	0.35	KSO x/9	25.00
BZS/F 09 - 1000 SK	86301658	black	39.37	0.35	KSO x/9	25.00
BZS/F 09 - 1300 SK	86301660	black	51.18	0.35	KSO x/9	25.00

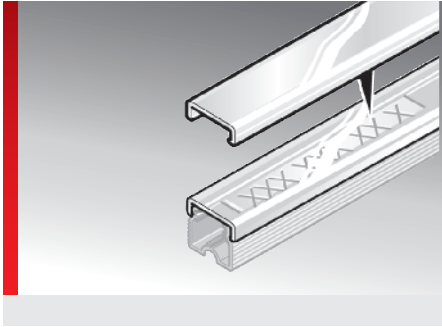
BZS/F labeling system (Continued...)



Equipment/equipment location labeling

Type	Part number	Color	Length inch	Width inch	Recommended label Plate	Pack qty.
Label rail with drilled holes at 15 mm (0.59 inch) width						
BZS/F 15 - 500	86301834	black	19.69	0.59	KS 15/x	25.00
BZS/F 15 - 600	86301836	black	23.62	0.59	KS 15/x	25.00
BZS/F 15 - 1000	86301838	black	39.37	0.59	KS 15/x	25.00
BZS/F 15 - 1300	86301840	black	51.18	0.59	KS 15/x	25.00
Label rail with drilled holes and adhesive strips (adhesive 4930) as assembly aid at 15 mm (0.59 inch) width						
BZS/F 15 - 430 K	86301885	black	16.93	0.59	KS 15/x	25.00
BZS/F 15 - 500 K	86301884	black	19.69	0.59	KS 15/x	25.00
BZS/F 15 - 600 K	86301886	black	23.62	0.59	KS 15/x	25.00
BZS/F 15 - 630 K	86301887	black	24.80	0.59	KS 15/x	25.00
BZS/F 15 - 650 K	86301889	black	25.59	0.59	KS 15/x	25.00
BZS/F 15 - 1000 K	86301888	black	39.37	0.59	KS 15/x	25.00
BZS/F 15 - 1300 K	86301890	black	51.18	0.59	KS 15/x	25.00
Self-adhesive label rail (adhesive 1780) without drilled holes for uneven surfaces (hammered enamel) at 15 mm (0.59 inch) width						
BZS/F 15 - 430 SK	86301855	black	16.93	0.59	KS 15/x	25.00
BZS/F 15 - 500 SK	86301854	black	19.69	0.59	KS 15/x	25.00
BZS/F 15 - 600 SK	86301856	black	23.62	0.59	KS 15/x	25.00
BZS/F 15 - 630 SK	86301857	black	24.80	0.59	KS 15/x	25.00
BZS/F 15 - 650 SK	86301859	black	25.59	0.59	KS 15/x	25.00
BZS/F 15 - 1000 SK	86301858	black	39.37	0.59	KS 15/x	25.00
BZS/F 15 - 1300 SK	86301860	black	51.18	0.59	KS 15/x	25.00





BZS and BZS/F labeling system cover



PRODUCT INFORMATION

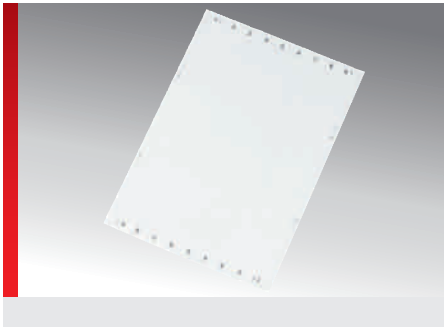
Transparent cover for BZS and BZS/F label rail
 The cover can be cut to any length.
 They are available in 9 mm (0.35 inch) and 15 mm (0.59 inch) widths.

SPECIFICATIONS

-  -40.00 – 176.00 °F
-  Polyvinyl chloride (PVC)
-  V0
- 

Type	Part number	Color	Length inch	Width inch	Pack qty.
Transparent cover for BZS and BZS/F label rail in 9 mm (0.35 in) width					
BZS 09 - 500 cover	86301242	Transparent	19.69	0.35	25.00
BZS 09 - 600 cover	86301244	Transparent	23.62	0.35	25.00
BZS 09 - 1000 cover	86301246	Transparent	39.37	0.35	25.00
BZS 09 - 1300 cover	86301248	Transparent	51.18	0.35	25.00
Transparent cover for BZS and BZS/F label rail in 15 mm (0.59 in) width					
BZS 15 - 430 cover	86301283	Transparent	16.93	0.59	25.00
BZS 15 - 500 cover	86301282	Transparent	19.69	0.59	25.00
BZS 15 - 600 cover	86301284	Transparent	23.62	0.59	25.00
BZS 15 - 630 cover	86301285	Transparent	24.80	0.59	25.00
BZS 15 - 650 cover	86301287	Transparent	25.59	0.59	25.00
BZS 15 - 1000 cover	86301286	Transparent	39.37	0.59	25.00
BZS 15 - 1300 cover	86301288	Transparent	51.18	0.59	25.00

ELO polycarbonate label, perforated



PRODUCT INFORMATION

For labeling Siemens S7 component groups

High-quality polycarbonate sheet labels may be separated easily at the perforation; they are designed for single-line or multi-line inscribing with the Pictor printer, plotter and laser printer.

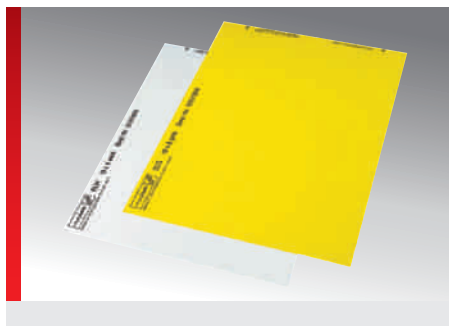
SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate
- V0
- Single-line and multi-line inscription. A4 sheets

Type	Part number	Color	Sheet labels size inch	Title space inch	No. No. of	No. Per sheet	Software Type	Pack qty.
ELO 27,50x12,85 ¹⁾	86561268	Opaque	1.08 x 0.51	1.08 x 0.51	14.00	126.00	E24	1260.00
ELO 50,00x12,85 ¹⁾	86561264	Opaque	1.97 x 0.51	1.97 x 0.51	14.00	70.00	E22	700.00
ELO 50x25,5 ¹⁾	86561266	Opaque	1.97 x 1.0	1.97 x 1.0	7.00	35.00	E23	350.00
ELO 103,50x17,45 ¹⁾	86561262	Opaque	4.07 x 0.69	4.07 x 0.69	10.00	20.00	E21	200.00
ELO 103,50x22,85 ¹⁾	86561260	Opaque	4.07 x 0.9	4.07 x 0.9	8.00	16.00	E20	160.00

¹⁾* The software types listed are blank templates. You should use the pre-defined types EA0 to ED7 for the Siemens S7 component groups.

ELW/ELG/ELPT self-adhesive label



PRODUCT INFORMATION

Self-adhesive polyester labels on an A4 sheet, available in the colors white, yellow and pastel turquoise.

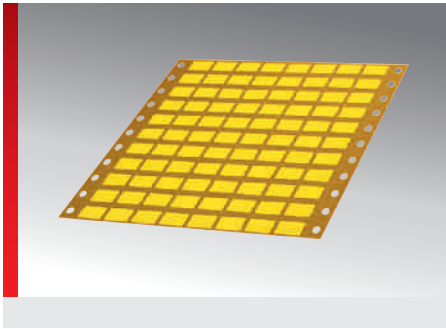
Easy handling because of the lock tabs. Clear positioning by labeling columns and lines.

SPECIFICATIONS

- 40.00 – 302.00 °F
- Polyester film
- V0
- Adhesive 4883
- Single-line and multi-line inscription. A4 sheets

Type	Part number	Color	RAL equiv.	Sheet labels size inch	Title space inch	No. No. of	No. Per sheet	Software Type	Pack qty.
Labels on A4 sheet, self-adhesive, white									
ELW 11x9R	86561224	White	9016	0.43 x 0.35	0.43 x 0.35	16.00	400.00	95	4000.00
ELW 15x6R	86561228	White	9016	0.59 x 0.24	0.59 x 0.24	11.00	374.00	88L	3740.00
ELW 19x6R	86561220	White	9016	0.75 x 0.24	0.75 x 0.24	9.00	306.00	97	3060.00
ELW 19x6R	86561222	White	9016	0.75 x 0.31	0.75 x 0.31	10.00	270.00	99	2700.00
ELW 64x34R	86561226	White	9016	2.52 x 1.34	2.52 x 1.34	3.00	24.00	93	240.00
Labels on A4 sheet, self-adhesive, yellow									
ELG 11x9R	86562018	Yellow	1018	0.43 x 0.35	0.43 x 0.35	16.00	400.00	94	4000.00
ELG 15x6R	86562022	Yellow	1018	0.59 x 0.24	0.59 x 0.24	11.00	374.00	082	3740.00
ELG 19x6R	86562014	Yellow	1018	0.75 x 0.24	0.75 x 0.24	9.00	306.00	96	3060.00
ELG 19x8R	86562016	Yellow	1018	0.75 x 0.31	0.75 x 0.31	10.00	270.00	98	2700.00
ELG 64x34R	86562020	Yellow	1018	2.52 x 1.34	2.52 x 1.34	3.00	24.00	R91	240.00
Labels on A4 sheet, self-adhesive, pastel turquoise									
ELPT 19x6	86561820	Pastel turquoise	6034	0.75 x 0.24	0.75 x 0.24	9.00	306.00	110	3060.00

Self-adhesive textile labels EDG



PRODUCT INFORMATION

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

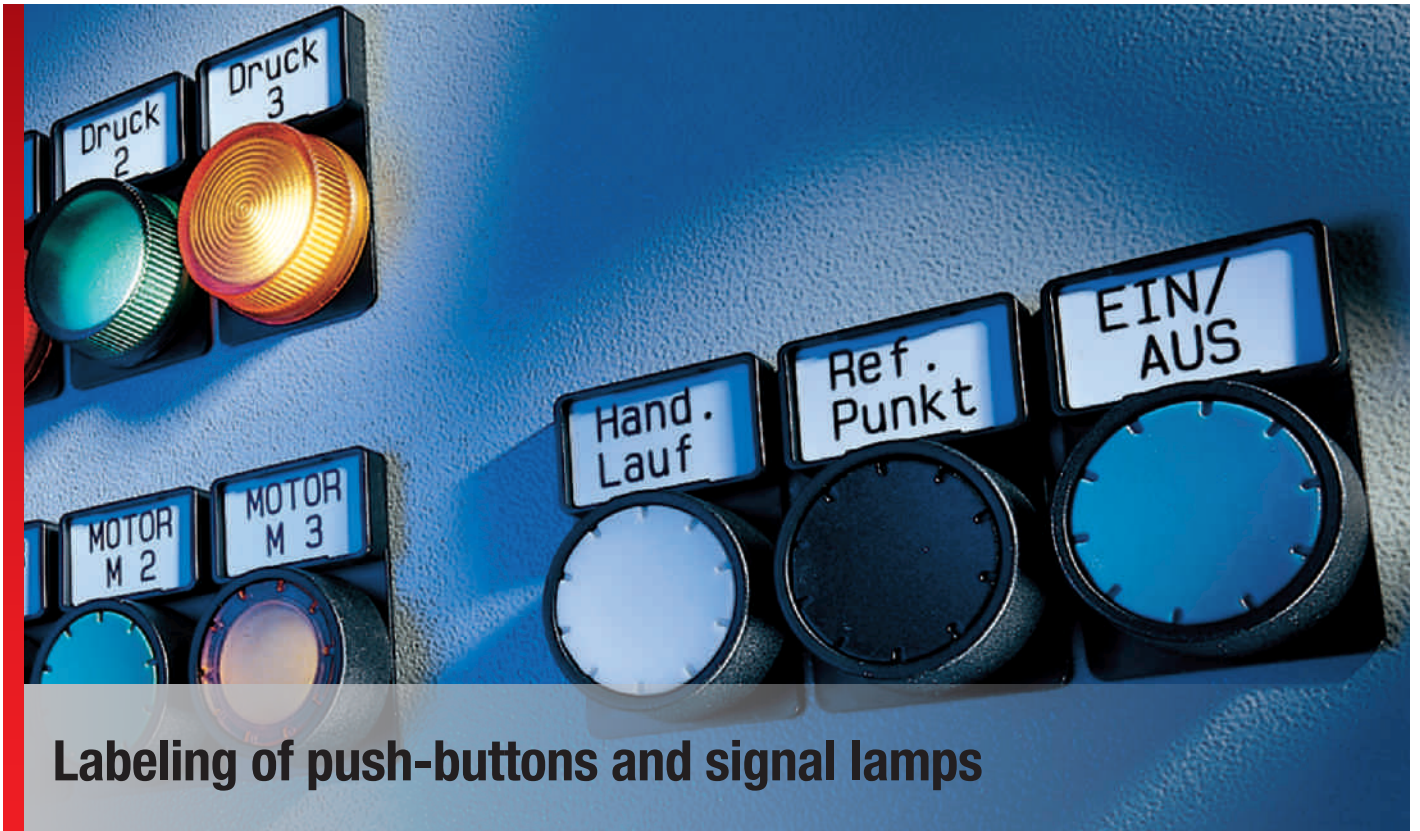
Especially tear resistant and therefore particularly well-suited for gluing edges.

SPECIFICATIONS

- 32.00 – 176.00 °F
- Reinforced textile
- Adhesive 1917
- Single-line and multi-line inscription

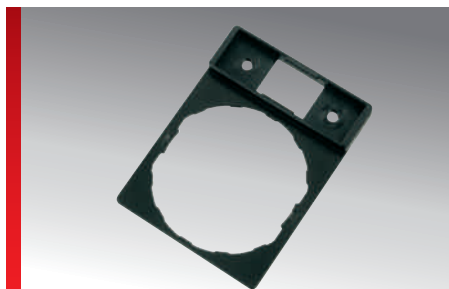


Type	Part number	Color	RAL equiv.	Sheet labels size inch	Title space inch	No. No. of	No. Per sheet	Software Type	Pack qty.
EDG 15x10	86561630	Bright yellow	1026	0.59 x 0.39	0.59 x 0.39	12.00	336.00	1P	3360.00
EDG 18x9	86561620	Yellow	1018	0.71 x 0.35	0.71 x 0.35	8.00	96.00	50	9600.00



Labeling of push-buttons and signal lamps

BT label holder



BT Harmony ZB4



BT 22.5 / BTK 22.5



BT 15/xx / BTK 15/xx

PRODUCT INFORMATION

The BT and BTK label holders are used for labeling non-proprietary components and assemblies.

Fastened with self-tapping screws.

Self-adhesive film is supplied with the BTK version as an installation aid.

The transparent cover keeps the inserted label plates clean and free from mechanical load.

SPECIFICATIONS

- 40.00 – 176.00 °F
- BT and BTK Polyvinyl chloride (PVC)
TA: Polycarbonate (PC)
- V0
- BTK with adhesive 9088
- Single-line and multi-line inscription



Type	Part number	Color	Recommended label Plate	Pack qty.
Label holder				
BT 15/27	86441010	black	KS 15/27	250.00
BT 15/49	86441012	black	KS 15/49	250.00
BT 15/67	86441014	black	KS 15/67	250.00
Label holder with adhesive strip on the back				
BTK 15/27	86441210	black	KS 15/27	250.00
BTK 15/49	86441212	black	KS 15/49	250.00
BTK 15/67	86441214	black	KS 15/67	250.00
Label holder for Ø 22.5 mm (0.89 inch) elements				
BT 22,5	86442018	black		250.00
Label holder for elements with Ø 22.5 mm (0.89 inch), with adhesive strip on the back				
BTK 22,5	86441016	black	KS 15/27	250.00
Label holder for Möller elements with Ø 28 mm (1.10 inch)				
BT Harmony ZB4	86442016	black		250.00

Label holder BT button and KS sticker with TA cover



PRODUCT INFORMATION

Four different small assortments are available for low volumes:

- **S-BTK 22.5 product range** consists of: each 48x BTK 22.5; KS 15/27; TA 15/27 and self-tapping screws.
- **S-BTK 15/27 product range** consisting of: each 48x BT 15/27; KS 15/27; TA 25/27 and self-tapping screws.

S-BTK 15/49 product range consisting of: each 48x BT 15/49; KS 15/49; TA 15/49 and self-tapping screws.

- **S-BTK 15/67 product range** consisting of: each 48x BT 15/67; KS 15/67; TA 15/67 and self-tapping screws.

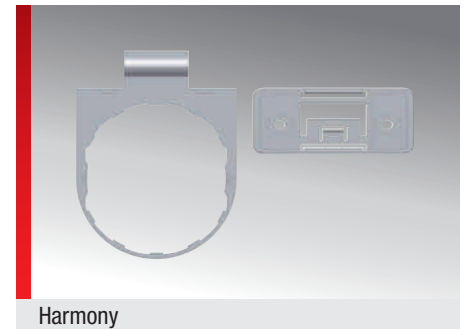
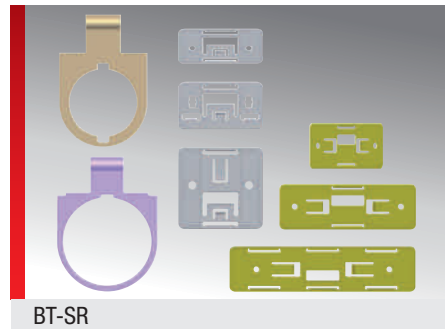
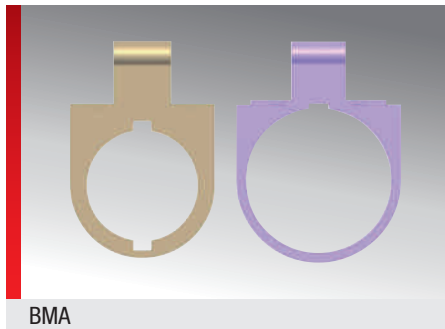
SPECIFICATIONS

- 40.00 – 176.00 °F
- BT: Polyvinyl chloride (PVC)
KS and TA: Polycarbonate (PC)
- V0
- BTK with adhesive 9088
- Single-line and multi-line inscription

Type	Part number	Color	Pack qty.
S-BTK 22,5	86441610	Sortiment	48.00
S-BTK 15/27	86441612	Sortiment	48.00
S-BTK 15/49	86441614	Sortiment	48.00
S-BTK 15/67	86441616	Sortiment	48.00

Labeling of push-buttons and signal lamps

Label holder BMA









PRODUCT INFORMATION

The BMA system is a flexible system for the labeling of push-buttons and signal lamps.

The neutral BMA type label holders can be equipped with various BT-SR type label frames, depending on the labeling requirement or request.

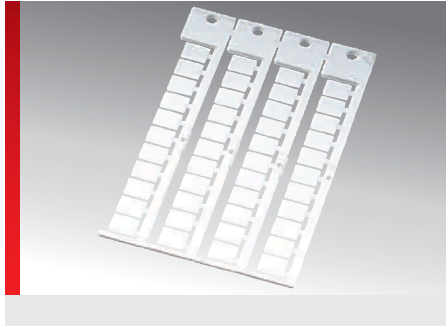
SPECIFICATIONS

-  -40.00 – 176.00 °F
-  BT-SR and BMA: Polyvinyl chloride (PVC)
TA: Polycarbonate (PC)
-  V0
-  Single-line and multi-line inscription

Type	Part number	Color	Recommended label Plate	Pack qty.
Holder standard				
BMA 22,5	86442020	black		50.00
BMA 30,0	86442024	black		50.00
Standard label frame				
BT-SR 15x27	86442034	black	KS 15/27	10.00
BT-SR 15x49	86442036	black	KS 15/49	10.00
BT-SR 15x67	86442038	black	KS 15/67	10.00
BT-SR 27x12,5	86442028	black		10.00
BT-SR 27x18	86442030	black		10.00
BT-SR 27x27	86442032	black		10.00
Holder Harmony				
BMA 22,5 Harmony	86442022	black		50.00
Harmony label frame				
BT-SR 8x26,5 Harmony	86442026	black		10.00
BT-SR 27x18 Harmony	86442042	black		10.00
Transparent cover for label holder				
TA 8/26,5	86441418	Transparent		
TA 15/27	86441410	Transparent		

KSK type label (universal adhesive label)



PRODUCT INFORMATION

High-quality, halogen-free, self-adhesive label.

- The KS 22x22 is suitable for Siemens 3SB push-button and signal lamp holders.
- The KSK 95x75 may be used alone, as a self-adhesive type plate, or with the TA 95x75 transparent cover with magnifying function (Item no. 86464014).

- Other available sizes of the self-adhesive KSK label are used with BT-SR label holders as well as label holders of other manufacturers.

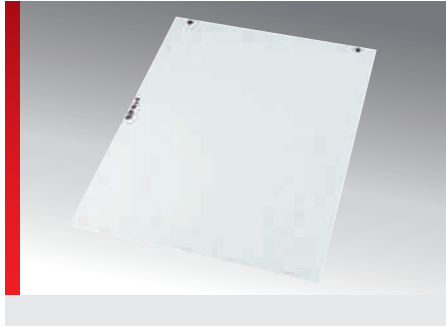
SPECIFICATIONS

	-40.00 – 284.00 °F
	Polycarbonate (PC)
	V0
	Adhesive 468
	Single-line and multi-line inscription

Type	Part number	Color	Label size * inch	Printable area * inch	No. characters/lines	No. Per frame	Base plate	Software Type	Pack qty.
For Siemens 3SB push-button and signal lamp holders									
KSK 22x22	86361278	White	0.87 x 0.87	0.87 x 0.87	12 / 6	8.00	GP4	128	144.00
KSK 22x22	86361280	Gray	0.87 x 0.87	0.87 x 0.87	12 / 6	8.00	GP4	129	144.00
For BT-SR 27x12.5									
KSK 27x12,5	86361266	White	0.49 x 1.06	0.49 x 1.06	15 / 3	12.00	GP4	115	216.00
KSK 27x12,5	86361268	Gray	0.49 x 1.06	0.49 x 1.06	15 / 3	12.00	GP4	116	216.00
For BT-SR 27x18 and BT-SR 27x18 Harmony									
KSK 27x18	86361270	White	0.71 x 1.06	0.71 x 1.06	15 / 5	10.00	GP4	117	180.00
KSK 27x18	86361272	Gray	0.71 x 1.06	0.71 x 1.06	15 / 5	10.00	GP4	118	180.00
For BT-SR 27x27									
KSK 27x27	86361274	White	1.06 x 1.06	1.06 x 1.06	15 / 7	6.00	GP4	119	108.00
KSK 27x27	86361276	Gray	1.06 x 1.06	1.06 x 1.06	15 / 7	6.00	GP4	127	108.00
Base carrier type plate									
KSK 95x75	86464016	White	2.95 x 3.74	2.95 x 3.74	52 / 22	1.00	GP1	300	20.00

* Specifications of the label size / printable area is shown in Width x Length.

ELW polyester label / ELO polycarbonate label








PRODUCT INFORMATION

Labeling of Siemens 3SB push-button and signal lamp holders.

High-quality sheet labels, made of Polyester foil in white (ELW) and made of Polycarbonate foil in opaque (ELO), for single and multi-line inscriptions.

The sheet labels are designated for laser printing in A4 format and may be separated to accommodate A5 format as needed.

SPECIFICATIONS

-  -40.00 – 284.00 °F
-  ELW label: Polyester film
ELO label: Polycarbonate foil
-  V0
-  ELW label: Adhesive 4830
-  Single-line and multi-line inscription. A4 sheets



Type	Part number	Color	Sheet labels size inch	Sheet labels diameter inch	Title space inch	No. characters/lines	No. Per sheet	Software Type	Pack qty.
Polyester label, rectangular version									
ELW 22x22	86561248	White	0.87 x 0.87		0.87 x 0.87	12 / 6	70.00	M09	1050.00
ELW 27x12,5	86561244	White	1.06 x 0.49		1.06 x 0.49	15 / 3	96.00	M03	960.00
ELW 27x27	86561246	White	1.06 x 1.06		1.06 x 1.06	15 / 7	48.00	M05	960.00
Polycarbonate label, rectangular version									
ELO 28x17,5	86561242	Opaque	1.1 x 0.69		1.1 x 0.69	15 / 5	72.00	M07	1080.00
Polycarbonate label, round version									
ELO Ø17,9	86561240	Opaque		0.70			96.00	M01	960.00
ELO Ø18.8	86561241	Opaque		0.74			70.00	A91	700.00



System labeling

Type plate



PRODUCT INFORMATION

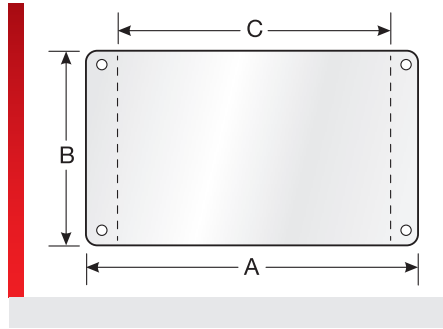
Type plate for marking installations, components, housings, and appliances. Additional protection with the transparent cover. Secure attachment with rivets or screw-mounting.

- As a complete set consisting of the KS base carrier and cover with TA zoom function or also available individually.
- Instead of the base carrier, you can also label an optional foil insert and place it between the base carrier and cover.

SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate
Polyester film
- V0
- Universal label holder

Type	Part number	Color	Label size inch	Sheet labels size inch	No. Per frame	No. Per sheet	Base plate	Software Type	Pack qty.
Complete set, consisting of printable base carrier and transparent cover with magnifying function									
TS 75x50	86464020	White / Transparent							10.00
TS 95x75	86464010	White / Transparent							10.00
Printable base carrier									
KS 75x50	86464022	White	2.95 x 1.97		1.00		GP1	301	20.00
KS 95x75	86464012	White	3.74 x 2.95		1.00		GP1	300	20.00
Transparent cover with magnifying function									
TA 75x50	86464024	Transparent							10.00
TA 95x75	86464014	Transparent							10.00
Printable foil insert									
ELW 75x50	86561258	White		2.95 x 1.97		8.00		301	120.00
ELW 95x75	86561256	White		3.74 x 2.95		4.00		300	60.00
Optional KSK 95x75 base carrier, self-adhesive (pack of 20 pcs.), part number 86464016 (not available as TS complete set)									



PRODUCT INFORMATION

Type plate for marking installations, components, housings, and appliances. Fixing with self-adhesive foil. The option of additional securing via rivets or screw-mounting

SPECIFICATIONS

-  -40.00 – 284.00 °F
-  Polycarbonate
-  V0
-  Adhesive 468
-  Universal label holder










Type	Part number	Color	Label size inch	Printable Area inch	No. characters/lines	Software Type	Pack qty.
KST 52x26 R3	8607140006	White	2.05 x 1.02	1.46 x 1.02	20 / 7	L36	10.00
KST 74x37 R3	8607140005	White	2.91 x 1.46	2.32 x 1.46	32 / 10	L35	10.00
KST 84x54 R3	8607140004	White	3.31 x 2.13	2.72 x 2.13	38 / 15	L34	10.00
KST 100x60 R5	8607140003	White	3.94 x 2.36	3.25 x 2.36	45 / 17	L33	10.00
KST 120x70 R5	8607140002	White	4.72 x 2.76	4.04 x 2.76	56 / 20	L32	10.00
KST 139x85 R5	8607140001	White	5.47 x 3.35	4.78 x 3.35	67 / 25	L31	10.00
KST 139x139 R5	8607140000	White	5.47 x 5.47	4.78 x 5.47	67 / 40	L30	10.00



The image features a large, stylized logo for ACS SOFTWARE. The text "ACS" is in a large, bold, white font, followed by a square icon containing a white diagonal line, and then "SOFTWARE" in a similar large, bold, white font. The background is a blue digital-themed graphic with binary code (0s and 1s) and a network of white lines connecting various software product names in white boxes. The products shown include PAVONIS, PICTOR2 BLACK, CAM, MVPS BASIC, PULSAR, PICTOR2, MGS 50/60, and A4-M. The word "Software" is written in a smaller, black font in the bottom-left corner of the image area.



Labeling systems

pictor²



PRODUCT INFORMATION

Photo-realistic quality, high print speed, robust lettering and simple integration into production.

The new pictor² inkjet labeling printer by Murrplastik features the performance capabilities demanded of today's color-based inkjet printer systems for industrial labeling tasks.

Specifications

Print area: 6 base plates (3 x 2) for PC signs, 1 label plate for Murrplastik label sheets
 Print speed: from 90 sec. / 6 base plates or 1 label sheet
 Print resolution: 720 dpi
 Nozzles per color: 180
 Color: specialty surface etching ink
 Print quantity: Approx. 600,000 characters at font size 24 (ACS software)
 Number of colors: 7 + 1x gloss

Min. drop size: 1.5 pl (picolitre)
 Power unit: 220–240 VAC (110-120 VAC USA)
 Ports: USB / Ethernet / WLAN 802.11 b/g/n

Scope of delivery

- Printer with carrier plate and exchangeable base plate
- Power cable
- USB cable
- 7x color cartridge (yellow, magenta, cyan, matt black, photo black, red, orange)
- 1x Dummy cartridge (gloss)
- Cover including mounting material
- CD (drivers and documentation)
- Operating instructions
- Service set (collector and fleece)

SPECIFICATIONS



Type	Part number	Pack qty.
pictor ² inkjet labeling system	86625100	1.00

pictor² Black



PRODUCT INFORMATION

The pictor² Black by Murrplastik is an inkjet label printer for customers that do not need color labels.

This keeps the cost of supplies lower. Poly-carbonate signs and polyester foil labels may be printed. Labeling is possible in photo and normal quality and in black only.

Specifications

Print area: 6 base plates (3 x 2) for PC signs, 1 label plate for Murrplastik label sheets
 Print speed: from 90 sec. / 6 base plates or 1 label sheet
 Print resolution: 720 dpi
 Nozzles per ink cartridge: 180
 Color: specialty surface etching ink
 Print quantity: Approx. 600,000 characters at font size 24 (ACS software)
 Number of ink cartridges: 2

Min. drop size: 1.5 pl (picolitre)
 Power unit: 220–240 VAC (110-120 VAC USA)
 Ports: USB / Ethernet / WLAN 802.11 b/g/n

Scope of delivery

- Printer with carrier plate and exchangeable base plate
- Cover incl. mounting material (4x screws, Torx wrench)
- CD (drivers, documentation)
- Operating instructions
- USB cable
- Power cable
- Service Set (replacement ink collector, replacement ink fleece)
- 2x ink cartridge (flat black MK, photo black PK)
- Chip-bars

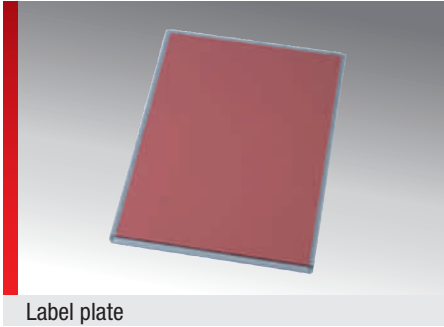
SPECIFICATIONS



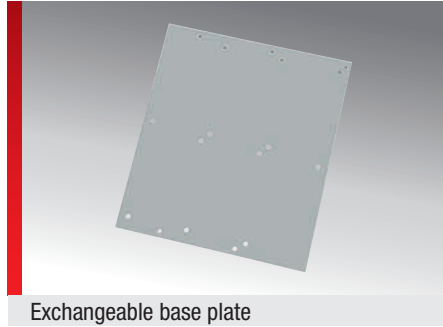
Type	Part number	Pack qty.
pictor ² Black inkjet labeling system	86625105	1.00

Labeling systems

Accessories for pictor² / pictor² Black



Label plate



Exchangeable base plate

PRODUCT INFORMATION

Accessories for the pictor² and pictor² Black labeling system

Label plate

Label plate for holding label sheets or Monomatt

Exchangeable base plate

Exchangeable base plate for holding an additional set of base plates (facilitates quick replacement)

Base plates

Base plates for mounting of labels are listed in the accessories area.

SPECIFICATIONS



Type	Part number	Pack qty.
pictor ² label plate	86625147	1.00
pictor ² exchangeable base plate	86625140	1.00

Supplies for pictor² / pictor² Black



PRODUCT INFORMATION

Ink cartridges

Surface etching ink has been developed to label polycarbonate signs, Monomatt (PC) and polyester or polycarbonate labels (ELW, ELG, ELPT, ELO perforated).

Glossy dummy cartridge

The glossy dummy cartridge serves as a place holder only. It is empty.

ServicesSet

The Service Set consists of ink collectors and fleece to absorb any ink residues left after installing the equipment and during the rinsing process.

SPECIFICATIONS



Type	Part number	Pack qty.
Ink cartridges		
pictor ² ink cartridge, yellow	86625121	1.00
Pictor ² ink cartridge, vivid magenta	86625122	1.00
pictor ² ink cartridge, matt black	86625123	1.00
pictor ² ink cartridge, red	86625124	1.00
pictor ² ink cartridge, orange	86625125	1.00
pictor ² ink cartridge, photo black	86625126	1.00
pictor ² ink cartridge, cyan	86625127	1.00
The glossy dummy cartridge (serves as a place holder)		
Pictor ² empty cartridge, glossy	86625130	1.00
Service set (consisting of ink-catching reservoir and water-leaf fleece paper)		
pictor ² service set	86625114	1.00

pulsar M6



PRODUCT INFORMATION

Individualized and abrasion-proof labels for labels made of metal and plastic, as well as laser foil.

Murrplastik presents the pulsar M6, as the system for manual workstation use for the realization of abrasion-proof, quality labeling on a wide variety of base materials.

Advantages

- Labeling stability
- High output volume
- High quality
- Processing of a range of different materials is possible
- Minimal operating costs
- No consumables used
- Easy to use
- No-contact marking

Labeling a variety of Murrplastik-Materials

Stainless steel, anodized aluminum, Polycarbonate signs, Monomatt, Polypropylene signs, laser foil

Minimal operating costs

- No supplies needed
- Nearly service free
- Low maintenance
- Low set-up times
- High degree of dependability

Technical data for pulsar M6

- Laser source: 6 watt solid state laser
- Wavelength: 1064 nm
- Modulation: Frequency 15 KHz - 200 KHz
- Cooling: Air
- Input voltage: 230 V / 50-60 Hz (voltage converter 110 - 135 V optional)
- Power: 0.5 KW
- Dimensions: 24.80 x 20.08 x 29.72 inch (H x W x D)
- Weight: 54 kg
- Interface: USB
- Safety: Laser class 1

SPECIFICATIONS



Type	Part number	Pack qty.
pulsar M6 laser labeling system	86624010	1.00

pulsar A6



PRODUCT INFORMATION

More productivity through automation

Increase productivity with the automation of the laser device by using a modular expansion unit.

One beneficial side effect of this is that application errors can be minimized, ensuring consistent quality regardless of the operator. With the new automation unit, the proven Pulsar technology can be turned into a completely autonomous unit. This unit can handle up to 100 mats (e.g. 5,700 KS labels) autonomously, no human interaction required. Automation makes the Pulsar 16 times more productive. Until now, the laser marking device required the presence and attention of the operator at all times. The pulsar now works completely independently. With a simple adaptation to the existing Pulsar M6 units (generation 2 and newer) and the option to continue using the device manually after adapting the automation unit, manufacturers can offer a high degree of flexibility for the user. The device includes a set of 2 base plates and magazines. This set is customized, because of the large range of materials available. Depending on the actual variances, an additional set may have to be added.

Advantages

- Can be adapted retrospectively

- Magazine of up to 100 mats
- More than 10,000 signs/hr independent working time.
- Fully automated inscription process
- All pulsar M6 features remain
- Low operating and maintenance costs
- Manual operation still serviceable
- Pick and Place
- Simple handling of the magazines

Labeling a variety of Murrplastik materials

Stainless steel, anodized aluminum, Polycarbonate signs, Monomatt, Polypropylene signs, laser foil

Technical data: pulsar A6

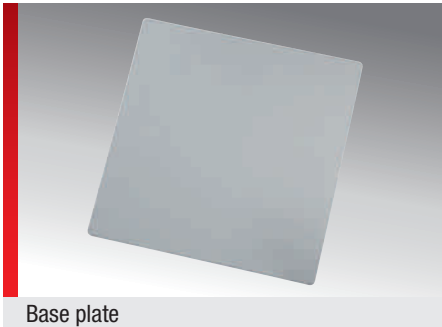
- Laser source: 6 watt solid state laser
- Wavelength: 1064 nm
- Modulation: Frequency 15 KHz - 200 KHz
- Cooling: Air
- Pneumatic: 4 bar, > 200 l/min (DIN ISO 8573-1: 2010)
- Input voltage: 230 V / 50-60 Hz
- Power: 1 kW (with pulsar M6)
- Dimensions: 24.80 x 41.34 x 36.22 inch (H x W x D)
- Weight: 110 kg (with pulsar M6)
- Interface: USB
- Safety: Laser class 1

SPECIFICATIONS



Type	Part number	Pack qty.
pulsar A6 laser labeling system	86624013	1.00

Accessories for pulsar M6 / pulsar A6



PRODUCT INFORMATION

pulsar GPU 140x140 base plate

Base plate for adhesive properties to hold ESK, EST, ALU/K, MM/K and ELF labeling materials.

Base plates for mounting of labels are listed in the accessories area.

Pulsar conduit pipe nozzle kit.

For connecting to an external exhaust system or external extraction system* (straight nozzle version).
* external extraction system upon request

- 1x pulsar conduit connection nozzle
- 4x screws
- 1x hose clamp
- 1x Allen wrench

Pulsar conduit pipe nozzle 90° Kit

For connecting to an external exhaust system or external extraction system* (angled nozzle version).

* external extraction system upon request

- 1x pulsar 90° conduit connection nozzle, 90°
- 4x screws
- 1x hose clamp
- 1x Allen wrench

Pulsar M6 voltage converter 110 - 135 V

Voltage converter for 110 - 135 V markets.

SPECIFICATIONS



Type	Part number	Pack qty.
Accessories		
pulsar GPU 140x140 base plate	86621029	1.00
Pulsar conduit pipe nozzle kit.	86624021	1.00
Pulsar conduit pipe nozzle 90° kit.	86624025	1.00
Accessories (only pulsar M6)		
pulsar 110 - 135 V voltage converter	86624022	1.00

Labeling systems

ESK cable designation on stainless steel



PRODUCT INFORMATION

V4A stainless steel labels for cable designation. Mounted with cable ties. The labels are installed on a plastic holder.

Marking can only be done with a laser printer system (e.g. Pulsar).

Special design for demanding environments like

- in the chemical or petrochemical industries
- in the mining industry
- in the ship building industry
- in wind energy plants
- in the food industry

SPECIFICATIONS

	-112.00 – 932.00 °F
	Stainless steel V4A
	V0

Type	Part number	Color	Label size inch	Printable Area inch	No. characters/lines	Software Type	Pack qty.
ESK 60x9	8605190005	Stainless steel	2.36 x 0.35	1.1 x 0.35	15 / 2	L05	120.00
ESK 80x9	8605190004	Stainless steel	3.15 x 0.35	1.89 x 0.35	26 / 2	L04	120.00
ESK 100x9	8605190003	Stainless steel	3.94 x 0.35	2.68 x 0.35	37 / 2	L03	120.00
ESK 60x15	8605190002	Stainless steel	2.36 x 0.59	1.1 x 0.59	15 / 4	L02	80.00
ESK 80x15	8605190001	Stainless steel	3.15 x 0.59	1.89 x 0.59	26 / 4	L01	80.00
ESK 100x15	8605190000	Stainless steel	3.94 x 0.59	2.68 x 0.59	37 / 4	L00	80.00

The correct size KB cable ties are listed in the accessories in the KDH catalog.

EST stainless steel type plate



PRODUCT INFORMATION

V4A stainless steel label plates to be used as type plates. Fastened with either rivets or screws.

Marking can only be done with a laser printer system (e.g. Pulsar) or with an engraving system suitable for engraving stainless steel (e.g. CAM).

Special design for demanding environments like

- in the chemical or petrochemical industries
- in the mining industry
- in the ship building industry
- in wind energy plants
- in the food industry

SPECIFICATIONS

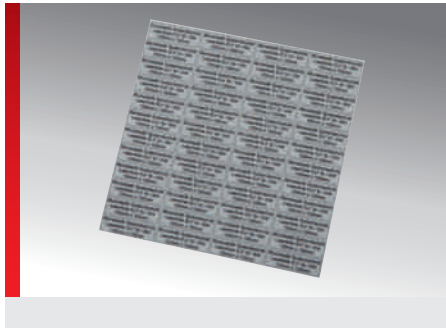
-  -112.00 – 932.00 °F
-  Stainless steel V4A
-  V0






Type	Part number	Color	Label size inch	Printable Area inch	No. characters/lines	Master gauge for holes Number x Ø inch	Software Type	Pack qty.
EST 30x30 R5	8605148007	Stainless steel	1.18 x 1.18	1.18 x 0.87	16 / 6	1x 4,0	A62	90.00
EST 52x26 R3	8605148006	Stainless steel	2.05 x 1.02	1.46 x 1.02	20 / 7	2x 2,5	L16	40.00
EST 74x37 R3	8605148005	Stainless steel	2.91 x 1.46	2.32 x 1.46	32 / 10	4x 2,5	L15	20.00
EST 84x54 R5	8605148004	Stainless steel	3.31 x 2.13	2.72 x 2.13	38 / 15	4x 2,5	L14	10.00
EST 100x60 R5	8605148003	Stainless steel	3.94 x 2.36	3.25 x 2.36	45 / 17	4x 3,7	L13	10.00
EST 120x70 R5	8605148002	Stainless steel	4.72 x 2.76	4.04 x 2.76	56 / 20	4x 3,7	L12	10.00
EST 139x85 R5	8605148001	Stainless steel	5.47 x 3.35	4.78 x 3.35	67 / 25	4x 3,7	L11	10.00
EST 139x139 R5	8605148000	Stainless steel	5.47 x 5.47	4.78 x 5.47	67 / 40	4x 3,7	L10	10.00

ELF foil laser label



PRODUCT INFORMATION

The double-layer ELF laser label foil is ideal for the production of custom adhesive labels and displays a reliable, permanent adhesion on Polyolefine (PE/PP), slightly oily or powder coated surfaces.

The halogen-free Polyacrylate foil is very resistant to chemicals, temperature and other

environmental influences and in case of fire it is self-extinguishing after 15 seconds. Complete cover of high-contrast base colors. Labeling and cutting is done with a laser labeling system.

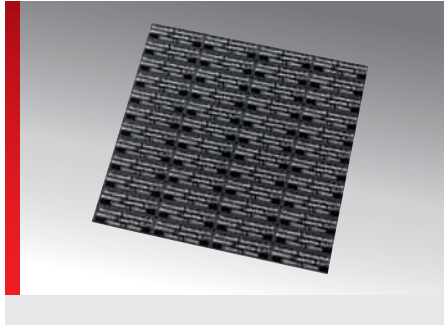
The user can freely define the size and number of labels within the printable area.

SPECIFICATIONS

	-40.00 – 572.00 °F	
	Polyacrylate	

Type	Part number	Color	Label size inch	Printable Area inch	No. characters/lines	Software Type	Pack qty.
ELF 120x120 SI/SW	86563002	Silver / Black	4.72 x 4.72	4.69 x 4.69	66 / 35	A64	100.00
ELF 120x120 SW/WS	86563050	Black / Withe	4.72 x 4.72	4.65 x 4.65	65 / 34	A63	100.00

ELF/T foil laser label



PRODUCT INFORMATION

The double-layer ELF laser label foil is ideal for the production of custom adhesive labels and demonstrates reliable, permanent adhesion on Polyolefins (PE/PP), slightly oily or powder coated surfaces.

The Polyacrylate foil is very resistant to che-

micals, temperature and other environmental influences. Complete cover of high-contrast base colors. Labeling and cutting is done with a laser labeling system.

The user can freely define the size and number of labels within the printable area.

SPECIFICATIONS

	-58.00 – 248.00 °F Short periods 518.00 °F
	Polyacrylate

Type	Part number	Color	Label size inch	Printable Area inch	No. characters/lines	Software Type	Pack qty.
ELF/T 120x120 SW/WS	86563051	Black / Withe	4.72 x 4.72	4.69 x 4.69	66 / 35	A89	100.00

Labeling systems

Monomatt MM/K



PRODUCT INFORMATION

The Monomatt labeling material, in mat size 5.47x5.47 inch, has been developed especially for the pulsar laser printer.

The 1 mm (0.04 inch) thick, single layer, white polycarbonate is characterized by its excellent labeling property and has been among the

best materials available for label plates for many years.

Monomatt MM/K is available with self-adhesive foil (SK) or with adhesive foil (HF).

SPECIFICATIONS

- 40.00 – 284.00 °F
- Polycarbonate (PC)
- V0
- SK adhesive film with adhesive 468

Type	Part number	Color	Label size inch	Printable Area inch	No. characters/lines	by meter inch	Master gauge for holes Number x Ø inch	Software Type	Pack qty.
Rectangular without radius, self-adhesive (for smooth surfaces)									
MM/K 30x12 SK ¹⁾	8608200005	White	1.18 x 0.47	1.18 x 0.47	16 / 3			G29	44.00
MM/K 60x20 SK ¹⁾	8608200001	White	2.36 x 0.79	2.36 x 0.79	33 / 5			D27	12.00
MM/K 70x27 SK ¹⁾	8608200002	White	2.76 x 1.06	2.76 x 1.06	38 / 7			D26	5.00
MM/K 82x22 SK ¹⁾	8608200003	White	3.23 x 0.87	3.23 x 0.87	45 / 6			D25	6.00
MM/K 95x45 SK ¹⁾	8608200004	White	3.74 x 1.77	3.74 x 1.77	52 / 13			D24	3.00
Rectangular without radius, with adhesive foil, 2 drilled holes									
MM/K 30x12 HF, 2x3.1MM ¹⁾	8608226001	White	1.18 x 0.47	0.73 x 0.47	10 / 3		2x 3,1	G28	44.00
MM/K 34x12 HF, 2x3,5MM ¹⁾	8608226002	White	1.34 x 0.47	0.79 x 0.47	11 / 3		2x 3,5	I99	20.00
MM/K 34x38 HF, 4x4MM ¹⁾	8608246001	White	1.34 x 1.5	1.34 x 0.87	18 / 6		4x 4,0	B01	6.00
Rectangular with radius, self-adhesive (for smooth surfaces)									
MM/K 18x9 R2 SK ¹⁾	8608100001	White	0.71 x 0.35	0.71 x 0.35	10 / 2			D33	72.00
MM/K 28x9 R2 SK ¹⁾	8608100006	White	1.1 x 0.35	1.1 x 0.35	15 / 2			D28	48.00
Round, with adhesive foil, 1 drilled hole									
MM/K D=30MM HF, 1x5.0MM ¹⁾	8608316001	White				1.18	1x 5,0	D49	16.00

¹⁾ Other sizes available on request

MVPS Basic



PRODUCT INFORMATION

Small and compact plotter without pen station, with the capability of marking label elements quickly and inexpensively.

Flat-bed plotter for six GPx ALU base plates or a GPU A4 label base plate
Plotting pin storage
Pins must be inserted and removed manually

Rugged instrument design of aluminum profiles
Operating area (base plate)
8.66 inch x 12.01 inch
Easy GPx base plate exchange for the various labeling elements
Automatic calibration after start-up
Universal power supply for between 100-240V AC
Clean labeling, beginning with the first labeling element for
PC interfaces: USB port
Command language: HPGL

MVPS Basic Plotter System

- MVPS Basic Plotter, including base plate
- Plug with power supply
- USB data cable
- Operating instructions

MVPS Basic Plotter Set

- MVPS Basic Plotter, including base plate
- 3x type GP 3 base plates
- 3x type GP 4 base plates
- Disposable ink pen MP2.0 0.01 inch
- ACS Gold Studio Software
- USB data cable
- 100-240V power supply plug with Euro system adapter plug
- USA and UK network adapter attachment
- Operating instructions

Mobile use

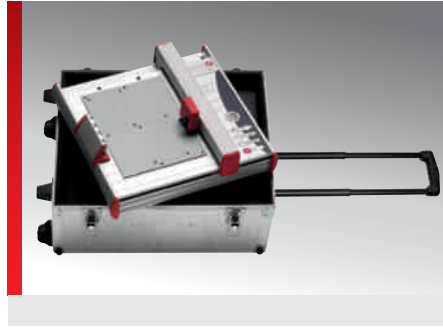
The MVPS Basic Plotter Set with matching aluminum trolley for mobile use.

SPECIFICATIONS



Type	Part number	Pack qty.
MVPS Basic Plotter System	86622013	1.00
MVPS Basic Plotter Set	86622051	1.00
MVPS basic plotter set with aluminum trolley	86622053	1.00

MVPS G3-T



PRODUCT INFORMATION

Fully functional and mobile

Are mobility and quality in labeling important to you? The new MVPS-G3-T plotter has been specially designed for labeling on the go. The transport case, with its integrated rollers, helps you bring the MVPS-G3-T to any location, while providing optimal protection in transit. Simply remove the protective case, establish the power supply and connect the plotter to the laptop and you're ready to begin. The MVPS-G3-T is a fully functional labeling system. Three different labeling 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

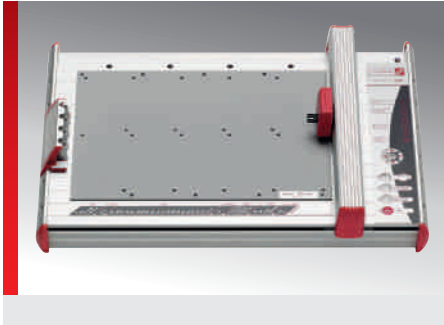
- On-site labeling
- Integrated transport rollers
- Suitable for airplanes
- 3 labeling materials: Label plates, labels, Duomatt
- Partial materials labeling is possible
- Top-quality typeface from the first to the last label

SPECIFICATIONS



Type	Part number	Pack qty.
MVPS G3-T	86622016	1.00

MVPS G3



PRODUCT INFORMATION

The best all-round equipment among labeling systems

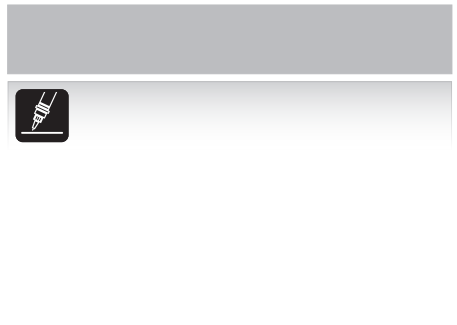
The MVPS-G3 is a new labeling system for the rapid, safe and high-quality marking of all electric, pneumatic or mechanical components. The ACS software can be relied upon to transmit the data accurately in all kinds of systems. The MVPS-G3 plotter was developed in response to customer requirements. As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

signed to make operations significantly easier.

Advantages at a glance

- Top-quality typeface from the first to the last label
- High configuration capacity - up to 1200 labels
- For mobile and static use
- Short set-up times for various materials
- Partial materials labeling is possible

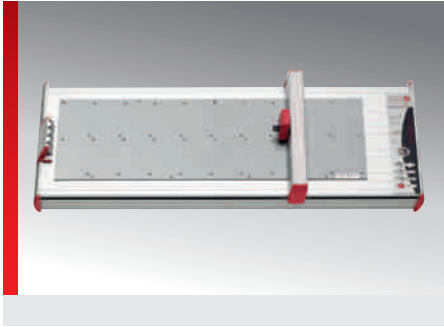
SPECIFICATIONS



Type	Part number	Pack qty.
MVPS G3	86622010	1.00

Labeling systems

MVPS G3-XXL



PRODUCT INFORMATION

Quantity AND quality

Are quantity and quality in labeling important to you? The new MVPS-G3 XXL plotter has been specially designed for labeling „Everything at once.“ The extremely long bed can hold 20 base plates at a time for labeling. The MVPS-G3-XXL is a fully functional labeling system. Three different labeling 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
- High configuration capacity - up to 2400 labels
- On-site labeling
- Short set-up times for various materials
- Partial materials labeling is possible

SPECIFICATIONS



Type	Part number	Pack qty.
MVPS G3-XXL	86622018	1.00

Engraving option for MVPS series



PRODUCT INFORMATION

The engraving option means it is easy to turn the plotters from the MVPS G3 series into full-fledged engraving machines (including vacuum extraction).

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. Turning any plotter into a multifunction machine!

Available for all plotters in the MVPS-G3 series
Simple conversion

Same user-friendly ACS software for all output devices

Broad selection of engraving materials One, two and three-layer plastic and aluminum materials

Technical data

RPM: 5000 – 10,000 rpm

Torque: 6 Ncm

Frequency: 83 - 830 Hz

Power consumption: 120 W

Tong: Shaft diameter 0.12 inch

Scope of delivery

- Fixing carriage including adjustment tool
- Engraving spindle with pre-assembled graver 0.02 inch 15°
- Control unit G3 / VEC
- Suction unit G3 / VEC
- Data cable: Controller on the spindle; controller on the plotter;
- Controller on the suction unit
- Power cable
- Suction conduit with plug adapter
- Cable and conduit holder
- Adjustment help
- Device manual

Base plates

Suitable GPU A4 or GPU A3 base plates are listed in the „Accessories“; they are not part of the engraving set scope of delivery.

Optional accessories

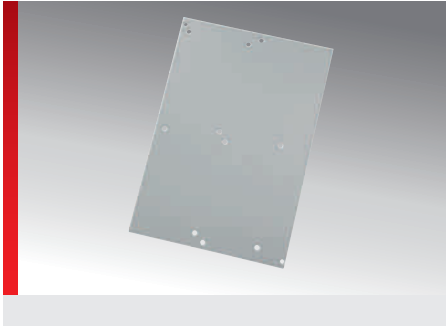
- MGS (40-T0/50/60) vacuum plate (part number 86622064)
- MGS (40-T0/50/60) vacuum plate (part number 86622066)
- MGS (40-T0/50/60) suction adapter set (part number 86622062)

SPECIFICATIONS



Type	Part number	Pack qty.
Complete set		
Engraving-Set MVPS G3G	86622030	1.00
Accessories		
Engraving option aluminum case	86621027	1.00
Engraving option / MGS vacuum cleaner bag set	86691072	1.00
Spare parts		
Engraving option control unit G3 VEC	86691038	1.00

Base plates for plotter systems



PRODUCT INFORMATION

Base plates

Mounting adapters for the various labeling materials used on plotter systems. The mounting adapter is the connector piece between the plotter housing and the base plate.

Base plates

Base plates for mounting of labels like Monomatt, Duomatt, aluminum and stickers are listed in the accessories area.

Type	Part number	Pack qty.
MVPS Basic Baseplate	86621031	1.00
MVPS G3-T Baseplate	86622012	1.00
MVPS G3 Baseplate	86622011	1.00
MVPS G3-XXL Baseplate	86623058	1.00

Labeling systems

Special writing pens for plotter systems



Refillable pen



Disposable pen

PRODUCT INFORMATION

Non-refillable pen

Available in different line thicknesses. Robust action. The pen is activated by assembling and locking the two parts together (pen tip and non-refillable ink cartridge).

Refillable pen

Available in different line thicknesses. The pen can be filled with replaceable cartridges (0.03 fl oz) or with ink from a bottle (1.01 fl oz).

Refillable pen for fabric labels

Special ink pen for textile labels (e.g. EDG type). The pen can be filled with replaceable cartridges (0.03 fl oz) or with ink from a bottle (1.01 fl oz).

Please note: All writing pens (excepting non-refillable ones) are delivered unfilled. Writing ink (bottles/cartridges) must be ordered separately.

SPECIFICATIONS



Type	Part number	Line thickness Ø inch	Color coding	Color	Pack qty.
Disposable pens (full)					
MP2.0 0.18 mm disposable ink pen	86621464	0.01	Red	black	1.00
MP2.0 0.25 mm disposable ink pen	86621466	0.01	White	black	1.00
MP2.0 0.35 mm disposable ink pen	86621468	0.01	Yellow	black	1.00
MP2.0 0.5 mm disposable ink pen	86621472	0.02	Brown	black	1.00
MP2.0 0.7 mm disposable ink pen	86621474	0.03	Blue	black	1.00
MP2.0 1.0 mm disposable ink pen	86621476	0.04	Orange	black	1.00
Refillable pen (empty)					
MP2.0 0.18 ink pen	86621480	0.01	Red	black	1.00
MP2.0 0.25 ink pen	86621481	0.01	White	black	1.00
MP2.0 0.35 ink pen	86621482	0.01	Yellow	black	1.00
MP2.0 0.5 ink pen	86621483	0.02	Brown	black	1.00
MP2.0 0.7 ink pen	86621484	0.03	Blue	black	1.00
MP2.0 1.0 ink pen	86621485	0.04	Orange	black	1.00
Refillable pen for fabric labels (full)					
MP2.0 ink pen labels	86621471	0.01	Purple	black	1.00

Ink and cleaner with accessories



Ink



Cleaner



Cleaning appliances

PRODUCT INFORMATION

Ink

Etching ink for UV stable labeling with the reusable pen. The ink's outstanding feature is its high stability on various forms of media.

Cleaner

The MP2.0 cleaner has been developed for the cleaning and care of the ink pens.

Cleaning set:

Includes the MP2.0 cleaner, a collection beaker and a cleaning cloth.

Cleaning Unit

Includes a collection beaker and a cleaning cloth.

Pressure ball

The pressure ball activates ink flow in the reusable pen after a refill, or longer periods of inactivity.

SPECIFICATIONS



Type	Part number	Pack qty.
MP2 ink for refillable pen		
MP2.0 (5 x 0.03 fl oz) ink cartridge	86621233	1.00
MP2.0 ink (1.02 fl oz)	86621235	1.00
Cleaning fluid for MP2.0 ink		
MP2.0 (2 x 0.34 fl oz) cleaner cartridge	86621244	1.00
MP2.0 1.02 fl oz cleaner	86621243	1.00
Cleaning kit and accessories		
MP2.0 cleaner set (MP2.0 cleaner and cleaning unit)	86621241	1.00
Cleaning Unit (collection beaker and cleaning cloth)	86621238	1.00
Pressure ball	86351050	1.00

Porty P300



PRODUCT INFORMATION

Porty P300, the compact and convenient mounting system for on-site labeling!

The Porty P300 comes in an aluminum 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 on the visual LED display. When fully charged, the unit can be operated continuously for up to three hours, independent of the mains power supply.

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 and the ACS labeling software.

Base plates

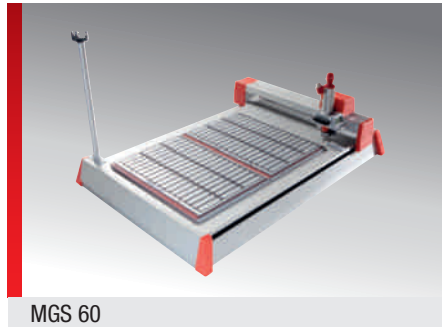
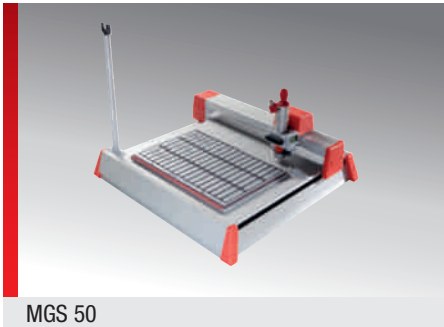
The best suited base plates for mounting of labels are listed in the accessories area.

SPECIFICATIONS



Type	Part number	Pack qty.
Porty P300 E	86621034	1.00
Porty P300 E excl. accessories	86621035	1.00
Accessories		
P300 power pack	86621086	1.00
MP base plate	86621088	1.00
Basic plate, neutral	86621090	1.00

MGS 50 / MGS 60



PRODUCT INFORMATION

Flexible and handy engraving device, for engraving plastic and aluminum materials (DM, DMG, ALU, ALM).

Engraving system based on a plotter design, with permanent engraving head (lifting unit). Available in A4 (MGS 50) and A3 (MGS 60).

The MGS 50 or 60 features a digital display of the engraving depth. Thus, when setting

the engraving depth, the individual steps in rotating the depth control no longer need to be counted. Settings are in 0.001 inch increments.

Base plates

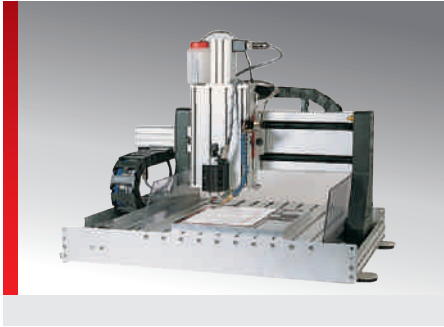
Suitable GPU A4 or GPU A3 base plates are listed with the „Accessories“; they are not part of the engraving system's scope of delivery.

SPECIFICATIONS



Type	Part number	Pack qty.
MGS 50 A4 engraving system	86622026	1.00
MGS 60 A3 engraving system	86622028	1.00
Accessories		
MGS (40-TO/50/60) vacuum plate	86622064	1.00
MGS (40-TO/50/60) vacuum plate	86622066	1.00
MGS (40-TO/50/60) suction adapter set	86622062	1.00
Spare parts		
MGS 50 / MGS 60 depth adjuster	86691037	1.00
MGS 50 / MGS 60 engraving spindle	86691035	1.00

CAM 100



PRODUCT INFORMATION

CAM 100 complete system

Complete engraving system for Duomatt, Alumatt and aluminum labeling materials and other materials suitable for engraving. The Murrplastik complete system consists of the 3-axis mechanism, accessories and the control devices; they are offered in various sizes.

Scope of delivery of complete system

Basic system including control unit
 A complete set of cables for connecting the axes with the controller, as well as the controller and the computer
 Spindle 170 E
 Vacuum table with chip vacuum pump *
 Suction equipment (without vacuum)
 Cooling / misting device

* If there is no compressed air supply at the installation site it will be necessary to order an electric vacuum pump instead of the standard chip vacuum pump.

General technical data

- Positioning range X/Y 12.99 x 11.42 inch, Stroke 2.95 inch

- Clamping surface 19.69 x 23.62 inch

General mechanical data

- Flat surface milled, face accuracy < 0.002 inch
- x/y/z infeeds, backlash-free, with stepped motor drive
- 3 ball screw drives, 0.63 x 0.20 inch with flange bearings
- Rubber cover with Teflon coating
- Repeat accuracy +/- 0.00004 inch
- 3 end and reference switches, accuracy < 0.00004 inch
- Cable drag chains
- Easy to maintain structure

Technical data for electronics

- 19" table housing
- 230 V power supply
- Connection to computer through serial interface
- Expanded HPGL command set
- Triaxial controlling

SPECIFICATIONS



Type	Part number	Pack qty.
CAM 100 complete system	86701020	1.00

Labeling systems

CAM 200

PRODUCT INFORMATION

CAM 200 complete system

Complete engraving system for Duomatt, Alumatt and aluminum labeling materials and other materials suitable for engraving. The Murrplastik complete system consists of the 3-axis mechanism, accessories and the control devices; they are offered in various sizes.

Scope of delivery of complete system

Basic system including control unit
 A complete set of cables for connecting the axes with the controller, as well as the controller and the computer
 Spindle 170 E
 Vacuum table with chip vacuum pump *
 Suction equipment (without vacuum)
 Cooling / misting device

* If there is no compressed air supply at the installation site it will be necessary to order an electric vacuum pump instead of the standard chip vacuum pump.

General technical data

- Positioning range X/Y 21.26 x 19.69 inch,

Stroke 2.95 inch

- Clamping surface 29.53 x 33.46 inch

General mechanical data

- Flat surface milled, face accuracy < 0.002 inch
- x/y/z infeeds, backlash-free, with stepped motor drive
- 3 ball screw drives, 16 x 0.20 inch with flange bearings
- Rubber cover with Teflon coating
- Repeat accuracy +/- 0.00004 inch
- 3 end and reference switches, accuracy < 0.00004 inch
- Cable drag chains
- Easy to maintain structure

Technical data for electronics

- 19" table housing
- 230 V power supply
- Connection to computer through serial interface
- Expanded HPGL command set
- Triaxial controlling

SPECIFICATIONS



Type	Part number	Pack qty.
CAM 200 complete system	86701022	1.00

Labeling systems



CAM spindle



ST 170 E spindle



Suction appliance



Cooling / spray device

PRODUCT INFORMATION

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.

Spindle SF 170 E

- High speeds, seamless regulation of speed range
- High speed stability, even under stress
- Nearly noiseless
- High output utilization combined with low weight
- precision bearing
- Control of spindle through software

Technical data:

- Nominal output 170 W
- Max. 60,000 rpm
- Clamping range 0.04 – 0.16 inch
- Manual tool change with quick clamping
- Software controlled frequency converter

Suction appliance

For all CAM models, including mounting parts and extraction hose (without vacuum)

Cooling / misting device

For all CAM models, including mounting parts, pressure and fluid hoses

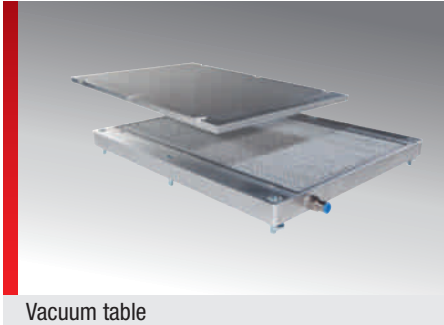
SPECIFICATIONS



Type	Part number	Pack qty.
Spindle		
Spindle SF 170 E	86701212	1.00
CAM series SF spindle 170W with inverter	86701214	1.00
Suction appliance		
Suction equipment (for all CAM models)	86701810	1.00
Cooling / misting device		
Cooling / spraying equipment (for all CAM models)	86701812	1.00

Labeling systems

CAM vacuum table accessories



Vacuum table

PRODUCT INFORMATION

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 aluminum 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.

CAM 100 vacuum table

Technical data:

- Size approx. 13.98 x 11.42 inch
- Raster gap 0.12 inch

Scope of delivery:

- Vacuum raster plate of aluminum
- Chip vacuum pump incl. accessories
- Sealing cord

CAM 200 vacuum table

Technical data:

- Size approx. 21.26 x 19.09 inch
- Raster gap 0.12 inch

Scope of delivery:

- Vacuum raster plate of aluminum
- Chip vacuum pump incl. accessories
- Sealing cord

Optional with a new order in conjunction with CAM 100

Electric vacuum pump instead of chip vacuum pump (surcharge)

Spare parts

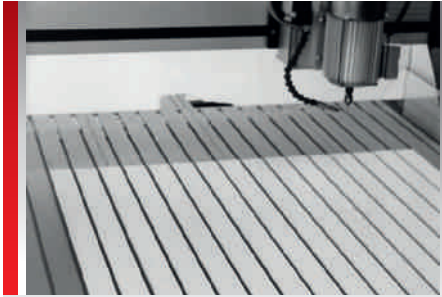
- Sealing cord
- Electric vacuum pump
- Vacuum grid plate
- Perforated vacuum plate

SPECIFICATIONS

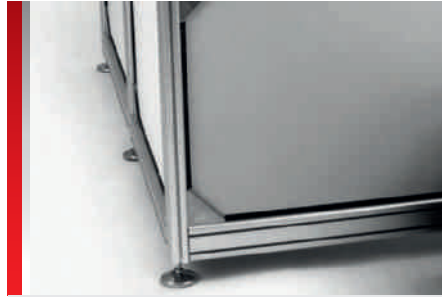


Type	Part number	Pack qty.
Vacuum table		
CAM 100 ALU vacuum grid plate	86701614	1.00
CAM 100 ALU perforated vacuum plate	86701616	1.00
CAM 100 vacuum table pitch pattern	86701610	1.00
CAM 200 vacuum table pitch pattern	86701612	1.00
Optional, in case of CAM reorder		
CAM series elect. vacuum pump	86701618	1.00
Electric vacuum pump instead of chip vacuum pump (surcharge)	86901614	1.00
Accessories		
Replacement sealing cord	86721018	9.84

CAM other accessories



Polystyrene base



Sub-frame

PRODUCT INFORMATION

T-slots set - Allows secure clamping of the material to be processed
3 different tensioning elements for direct clamping of work pieces via the T-grooves of the CAM system

Scope of delivery:

- 4 clamps
- 2 manual lever - clamping devices
- 6 stop rails of different lengths (2.95, 6.89, and 9.84 inch)

Polystyrene base - ensures optimum parallelism of the machine table after flush trimming
Polystyrene strips, suited to CAM 100 and CAM 200

Sub-frame - for the stable placement of the machine (included in the delivery supply of the CAM 200)
Suitable base of CAM 100 and CAM 200

Scope of delivery:

- Aluminum profiles, angles and stands

Canopy - Ensure safety and cleanliness at the workplace and reduces noise level
CAM 200 cover

Scope of delivery:

- Aluminum profiles with connectors
- Tinted Plexiglas pane
- cable entry at rear

SPECIFICATIONS



Type	Part number	Pack qty.
T-slots set		
T-slots set	86721212	1.00
Polystyrene base		
CAM100 polystyrene base	86721014	1.00
CAM200 polystyrene base	86721016	1.00
Sub-frame		
CAM100 subframe	86701410	1.00
CAM200 subframe	86701412	1.00
Canopy		
CAM200 cover	86701414	1.00

CAM consumables

CAM coloring and cooling aids, lubricants



Aluminum oxide



Lubricant

PRODUCT INFORMATION

Dyes for engraving systems

Alu-oxide, for blackening engraved lettering on silver anodized aluminum signs.

Coolant and degreasing agent for engraving systems

Using a coolant and a lubricating agent when engraving aluminum produces better results and extends the service life of the tool.

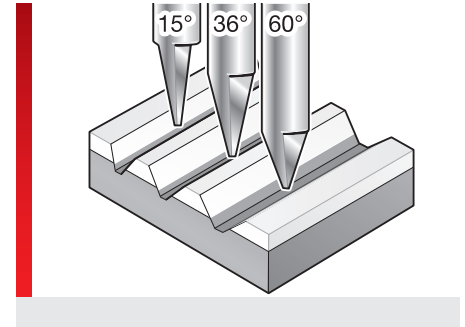
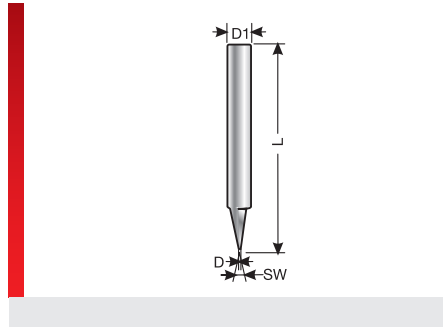
SPECIFICATIONS



Type	Part number	Pack qty.
Aluminum oxide 100 ml	86621260	1.00
Lubricant ALU-N 1000 ml	86621262	1.00

Labeling systems

Graver



PRODUCT INFORMATION

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. Ratio of plunge depth:

engraving width is predominantly determined by the angle at the point.

- Universal graver for engraving work
- For use with a wide range of materials (plastic, aluminum,...)

Engraving systems

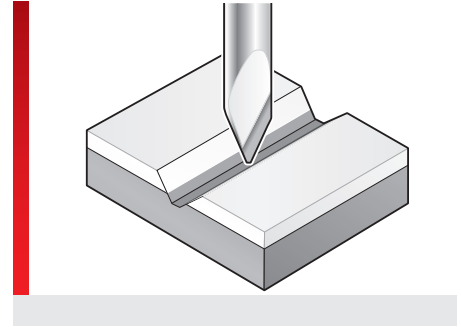
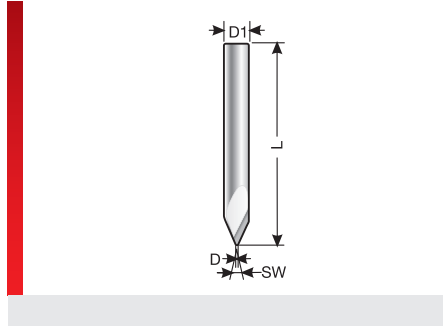
The graver can be used in conjunction with the MGS series CAM engraving system and the engraving option.

SPECIFICATIONS



Type	Part number	D Ø inch	D1 Ø inch	L inch	Section angle °	Pack qty.
Nose angle 15 degree						
Graver 15° d = 0,2 mm (0.01 inch)	86721424	0.01	0.12	1.57	15.00	1.00
Graver 15° d = 0,3 mm	86721426	0.01	0.12	1.57	15.00	1.00
Graver 15° d = 0,4 mm (0.02 inch)	86721428	0.02	0.12	1.57	15.00	1.00
Graver 15° d = 0,5 mm	86721430	0.02	0.12	1.57	15.00	1.00
Graver 15° d = 0,7 mm (0.03 inch)	86721432	0.03	0.12	1.57	15.00	1.00
Nose angle 36 degree						
Graver 36° d = 0,2 mm (0.01 inch)	86721435	0.01	0.12	1.57	36.00	1.00
Graver 36° d = 0,3 mm	86721436	0.01	0.12	1.57	36.00	1.00
Graver 36° d = 0,4 mm (0.02 inch)	86721437	0.02	0.12	1.57	36.00	1.00
Graver 36° d = 0,5 mm	86721438	0.02	0.12	1.57	36.00	1.00
Graver 36° d = 0,7 mm (0.03 inch)	86721439	0.03	0.12	1.57	36.00	1.00
Graver 36° d = 1,0 mm (0.04 inch)	86721440	0.04	0.12	1.57	36.00	1.00
Nose angle 60 degree						
Graver 60° d = 0,2 mm (0.01 inch)	86721444	0.01	0.12	1.57	60.00	1.00
Graver 60° d = 0,3 mm	86721446	0.01	0.12	1.57	60.00	1.00
Graver 60° d = 0,4 mm (0.02 inch)	86721448	0.02	0.12	1.57	60.00	1.00
Graver 60° d = 0,5 mm	86721450	0.02	0.12	1.57	60.00	1.00
Graver 60° d = 0,7 mm (0.03 inch)	86721452	0.03	0.12	1.57	60.00	1.00
Graver 60° d = 1,0 mm (0.04 inch)	86721454	0.04	0.12	1.57	60.00	1.00

Milling cutter



PRODUCT INFORMATION

Milling cutters are conical tools with a cutting edge. The recently incorporated chip groove (spiral shaped) is able to remove chips very well. This will clear the engraving and leave it without burrs and clean. This tool has proved itself to be a veritable all-rounder!

- Specialty cutter for acrylic glass engravings
- For a variety of materials (plastics, aluminum, non-ferrous metals...)

Engraving systems

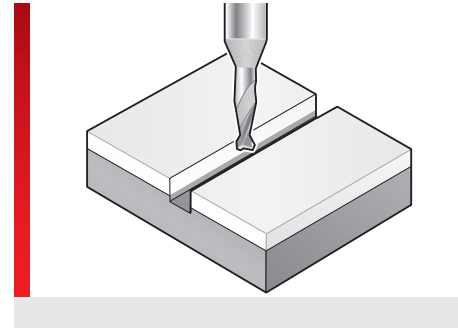
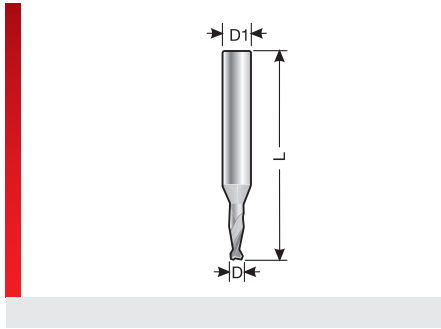
The milling cutter can be used in conjunction with the MGS series CAM engraving system and the engraving option.

SPECIFICATIONS



Type	Part number	D Ø inch	D1 Ø inch	L inch	Section angle °	Pack qty.
Milling cutter 30° d = 0.5 mm (0.02 inch)	86721474	0.02	0.12	1.57	30.00	1.00
Milling cutter 60° d = 0.2 mm (0.01 inch)	86721470	0.01	0.12	1.57	60.00	1.00
Milling cutter 60° d = 0.5 mm (0.02 inch)	86721472	0.02	0.12	1.57	60.00	1.00

Rub-out cutter



PRODUCT INFORMATION

The rub-out cutter has a lower breaking risk than the double-fluted cutter with fishtail cut, because of the shorter cutting edge; it is therefore better suited for diameters up to 1 mm (0.04 inch).

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

Engraving systems

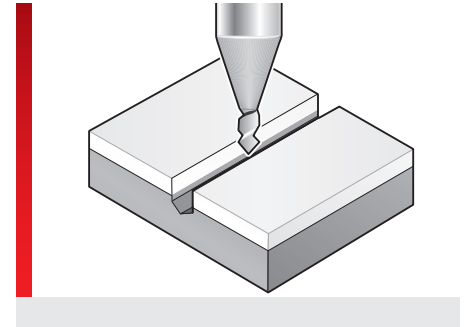
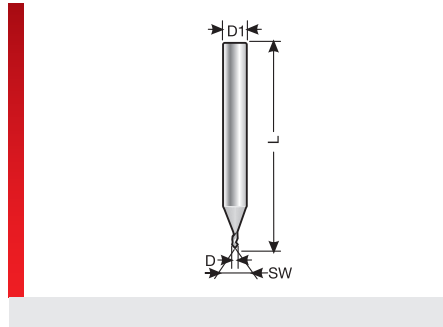
The rub-out cutter can be used in conjunction with the CAM engraving system.

SPECIFICATIONS



Type	Part number	D Ø inch	D1 Ø inch	L inch	Section angle °	Pack qty.
Rub-out cutter d = 0.5 mm (0.02 inch)	86721414	0.02	0.12	1.18	180.00	1.00
Rub-out cutter d = 1.0 mm (0.04 inch)	86721416	0.04	0.12	1.18	180.00	1.00

Isolation engraver



PRODUCT INFORMATION

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 ALU, ALM, stainless steel and titanium alloys.

- Especially for engraving of fine, single-line scripts
- Suitable for aluminum and anodized aluminum
- For hard materials (such as stainless steel and titanium)

SPECIFICATIONS



Engraving systems

The 30 mm (1.18 inch) insulation engraver can be used in conjunction with the CAM engraving system.

The 40 mm (1.57 inch) insulation engraver is suitable for Murrplastik engraving systems.

Type	Part number	Graver diameter from - to inch	D1 Ø inch	L inch	Section angle °	Pack qty.
For CAM engraving system						
Insulation engraver 30 mm (1.18 inch)	86721412	0.0 – 0.02	0.12	1.18	90.00	1.00
For all engraving systems						
Insulation engraver 40 mm (1.57 inch)	86721413	0.0 – 0.04	0.12	1.57	90.00	1.00

Tool sets



PRODUCT INFORMATION

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.

10 piece tool set (only for CAM engraving systems)

Consisting of:

- one each of graver 15° 0.2 mm (0.008 inch); 0.4 mm (0.016 inch); 0.7 mm (0.028 inch)
- 1x graver 36° 0.4 mm (0.016 inch)
- 1x graver 60° 0.2 mm (0.008 inch)
- 1 x Rub-out cutter (0.5 mm (0.020 inch) / 1.0 mm (0.039 inch))

- 2x Insulation engravers
- 1 x Double-fluted cutter 3.0 mm (0.12 inch)

Graver set, 10-piece (for all engraving systems)

Consisting of:

- one each of graver 15° 0.2 mm (0.008 inch); 0.3 mm (0.012 inch); 0.4 mm (0.016 inch); 0.5 mm (0.020 inch); 0.7 mm (0.28 inch)
- one each of graver 36° 0.3 mm (0.012 inch); 0.5 mm (0.020 inch); 1.0 mm(0.039 inch)
- one each of graver 60° 0.3 mm (0.012 inch); 0.5 mm (0.020 inch)

SPECIFICATIONS



Type	Part number	Pack qty.
10 piece tool set (only for CAM engraving systems)	86721410	1.00
10-piece graver set	86721460	1.00

Labeling systems

cab A4+M



PRODUCT INFORMATION

cab A4+M is the label printer with centered stock guides.

The preferred printer for narrow and thick continuous-feed materials, like flat hoses/ conduit, belts and very small labels.

- No print head adjustment for materials of varying widths.
- Also for printing of very narrow and thick continuous-feed materials.
- Printing speed may be reduced for materials with especially difficult printability.

Scope of delivery

cab A4+M label printer
 Power cable
 USB data cable
 Operating instructions
 CD (ACS software, driver, operating instructions)

Optional accessories

Cutters
 Perforation blade
 External unwinder

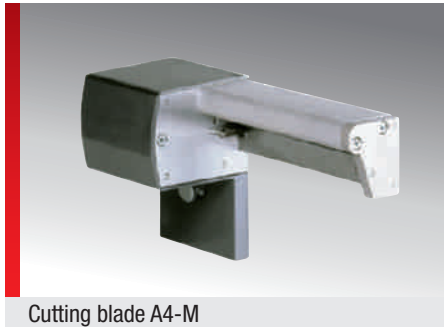
SPECIFICATIONS



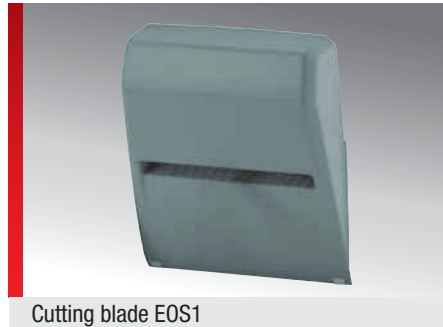
Type	Part number	Pack qty.
cab A4+M label printer	86661800	1.00

Labeling systems

Accessories for EOS1 and A4+M



Cutting blade A4-M



Cutting blade EOS1

PRODUCT INFORMATION

Cutters

The cutting blade separates all printable materials. Depending on the type of printer used, paper labels, self-adhesive labels, cardboard or fabric labels and plastic materials, as well as heat-shrink tubing can be cut.

Perforation blade

The perforating blade allows for optional perforation of the materials, in addition to the cutting, so that it may be separated by hand at a later time.

External unwinder

The external unwinder is needed for rolls

of material that are too large to fit into the printer. It automatically centers the rolls of materials when placed into the equipment and makes the feeding in of heavy rolls possible. Externally wound, as well as internally wound rolls can be processed. The external unwinder has been designed to hold 3 in cab-label rolls. Different versions are available for the cab EOS1 and for the cab A4+M.

External unwinder for 1" core

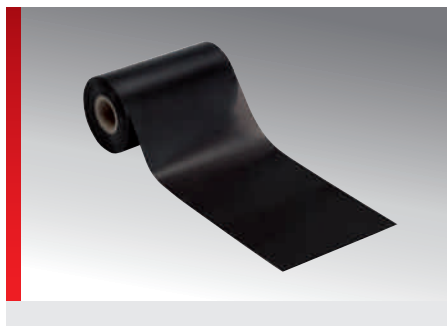
The external unwinder for 1" cores is suitable for holding 1 in label rolls, such as pavonis label rolls and can also be used for the cab EOS1 and for the cab A4+M.

SPECIFICATIONS



Type	Part number	Pack qty.
Accessories for EOS1		
cab EOS1 cutting blade	86661820	1.00
cab EOS1 external unwinder	86661825	1.00
Accessories for A4+M		
cab A4+M cutting blade	86661810	1.00
cab A4+M perforation blade	86661811	1.00
cab A4+M external unwinder	86661815	1.00
Accessories for EOS1 and A4+M		
cab external unwinder for 1" core	86661830	1.00

cab FB-BT and FB-ECO color printer ribbon



PRODUCT INFORMATION

Printer ribbons made from a long-lasting, quality resin for the cab series label printers.

FB-BT printer ribbon

- Very good print quality for smooth surfaces
- Excellent scratch resistance
- High resistance to chemicals and high temperatures
- For highest standards.

Recommended for „Rail technology, taped“ (ST-BT-H) heat-shrink conduit.

FB-ECO printer ribbon

- Very good print quality for smooth surfaces
- Good scratch resistance
- High resistance to chemicals and high temperatures
- For the highest demands

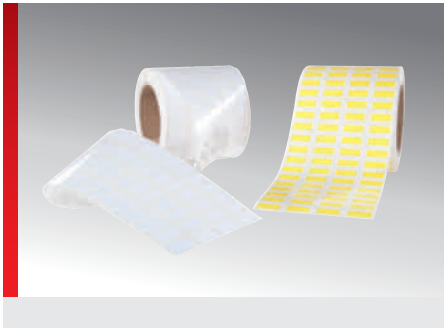
Recommended for heat-shrink conduit „ECO taped“ and „ECO rolls“.
Recommended for „ECP Premium“ labels.

SPECIFICATIONS



Type	Part number	Color	Roll width inch	Roll length m	Pack qty.
FB-BT printer ribbon					
FB-BT color printer ribbon - 40 mm x 300 m	86662002	black	1.57	984.25	1.00
FB-BT color printer ribbon - 80 mm x 300 m	86662001	black	3.15	984.25	1.00
FB-ECO printer ribbon					
FB-BT color printer ribbon - 110 mm x 300 m	86662000	black	4.33	984.25	1.00

cab ECP premium polyester label



PRODUCT INFORMATION

Polyester label for any labeling purpose. Suitable for use in automotive, electronics industries, logistics, machine and plant construction, as well as in medical technology and in the chemical industry.

- Excellent adhesive properties on many surfaces.
- May also be used on powder coated surfaces
- UL and cUL recognized

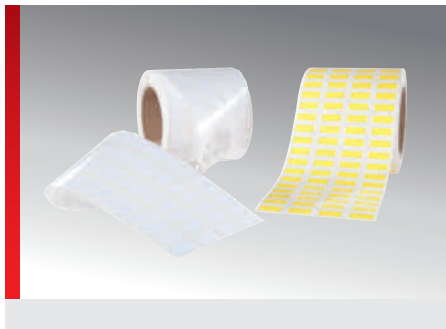
Recommended printer ribbon:
FH: resin-based ribbon

SPECIFICATIONS

- 40.00 – 302.00 °F
- Polyester film
- Modified acrylate adhesive, processing temperature of at least 5 °F
- Self-extinguishing after 15 seconds. Non-drip
-

Type	Part number	Color	Label Length inch	Label width inch	Software Type	Pack qty.
ECP-Premium labels, white						
ECP-Premium 11x6	86511100	White	0.43	0.24	Q00	10000.00
ECP-Premium 11x9	86511101	White	0.43	0.35	Q01	10000.00
ECP-Premium 15x6	86511102	White	0.59	0.24	Q02	10000.00
ECP-Premium 18x6	86511103	White	0.71	0.24	Q03	10000.00
ECP-Premium 18x9	86511104	White	0.71	0.35	Q04	10000.00
ECP-Premium 20x8	86511114	White	0.79	0.31	Q12	10000.00
ECP-Premium 22x22	86511108	White	0.87	0.87	Q08	2500.00
ECP-Premium 27x12,5	86511105	White	1.06	0.49	Q05	5000.00
ECP-Premium 27x17,5	86511106	White	1.06	0.69	Q06	5000.00
ECP-Premium 27x27	86511107	White	1.06	1.06	Q07	2500.00
ECP-Premium 60x40	86511111	White	2.36	1.57	Q09	1500.00
ECP-Premium 90x60	86511112	White	3.54	2.36	Q10	1500.00
ECP Premium 150x100	86511113	White	3.94	5.91	Q11	500.00
ECP-Premium labels, silver						
ECP-Premium 11x6	86511200	Silver	0.43	0.24	Q26	10000.00
ECP-Premium 11x9	86511201	Silver	0.43	0.35	Q27	10000.00
ECP-Premium 15x6	86511202	Silver	0.59	0.24	Q28	10000.00
ECP-Premium 18x6	86511203	Silver	0.71	0.24	Q29	10000.00
ECP-Premium 18x9	86511204	Silver	0.71	0.35	Q30	10000.00
ECP-Premium 20x8	86511214	Silver	0.79	0.31	Q38	10000.00

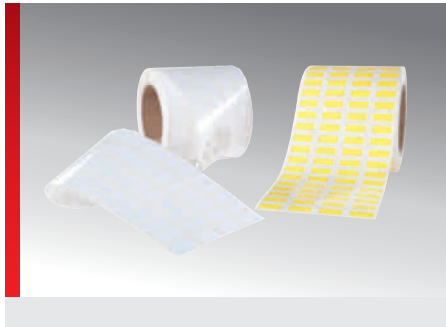
cab ECP premium polyester label (Continued...)



Type	Part number	Color	Label Length inch	Label width inch	Software Type	Pack qty.
ECP-Premium 22x22	86511208	Silver	0.87	0.87	Q34	2500.00
ECP-Premium 27x12,5	86511205	Silver	1.06	0.49	Q31	5000.00
ECP-Premium 27x17,5	86511206	Silver	1.06	0.69	Q32	5000.00
ECP-Premium 27x27	86511207	Silver	1.06	1.06	Q33	2500.00
ECP-Premium 60x40	86511211	Silver	2.36	1.57	Q35	1500.00
ECP-Premium 90x60	86511212	Silver	3.54	2.36	Q36	1500.00
ECP Premium 150x100	86511213	Silver	3.94	5.91	Q37	500.00
ECP-Premium labels, yellow						
ECP-Premium 11x6	86511000	Yellow	0.43	0.24	Q13	10000.00
ECP-Premium 11x9	86511001	Yellow	0.43	0.35	Q14	10000.00
ECP-Premium 15x6	86511002	Yellow	0.59	0.24	Q15	10000.00
ECP-Premium 18x6	86511003	Yellow	0.71	0.24	Q16	10000.00
ECP-Premium 18x9	86511004	Yellow	0.71	0.35	Q17	10000.00
ECP-Premium 20x8	86511014	Yellow	0.79	0.31	Q25	10000.00
ECP-Premium 22x22	86511008	Yellow	0.87	0.87	Q21	2500.00
ECP-Premium 27x12,5	86511005	Yellow	1.06	0.49	Q18	5000.00
ECP-Premium 27x17,5	86511006	Yellow	1.06	0.69	Q19	5000.00
ECP-Premium 27x27	86511007	Yellow	1.06	1.06	Q20	2500.00
ECP-Premium 60x40	86511011	Yellow	2.36	1.57	Q22	1500.00
ECP-Premium 90x60	86511012	Yellow	3.54	2.36	Q23	1500.00
ECP Premium 150x100	86511013	Yellow	3.94	5.91	Q24	500.00

Labeling systems

cab ECP-ECO polyester label



PRODUCT INFORMATION

Polyester label for any number of labeling needs. Suitable for use in the automotive, electronics industries, logistics, machine and plant construction.

- Good adhesive properties for many surfaces.
- Cost-effective solution

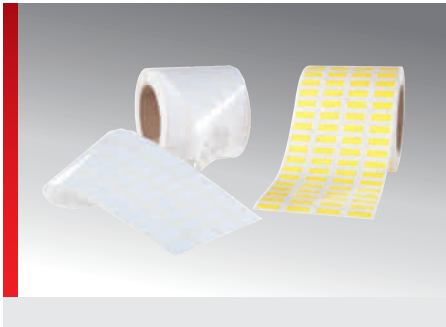
Recommended printer ribbon: FH: resin-based ribbon

SPECIFICATIONS

- 4.00 – 248.00 °F
- Polyester film
- Modified acrylate adhesive, processing temperature of at least 5 °F
-

Type	Part number	Color	Label Length inch	Label width inch	Software Type	Pack qty.
ECP-ECO labels, white						
ECP-ECO-11x6	86511600	White	0.43	0.24	Q50	10000.00
ECP-ECO-11x9	86511601	White	0.43	0.35	Q51	10000.00
ECP-ECO-15x6	86511602	White	0.59	0.24	Q52	10000.00
ECP-ECO-18x6	86511603	White	0.71	0.24	Q53	10000.00
ECP-ECO-18x9	86511604	White	0.71	0.35	Q54	10000.00
ECP-ECO-22x22	86511608	White	0.87	0.87	Q58	10000.00
ECP-ECO-27x12.5	86511605	White	1.06	0.49	Q55	10000.00
ECP-ECO-27x17.5	86511606	White	1.06	0.69	Q56	10000.00
ECP-ECO-27x27	86511607	White	1.06	1.06	Q57	10000.00
ECP-ECO-60x40	86511611	White	2.36	1.57	Q59	2000.00
ECP-ECO-90x60	86511612	White	3.54	2.36	Q60	1500.00
ECP-ECO-100x150	86511613	White	3.94	5.91	Q61	600.00
ECP-ECO labels, silver						
ECP-ECO-11x6	86511700	Silver	0.43	0.24	Q74	10000.00
ECP-ECO-11x9	86511701	Silver	0.43	0.35	Q75	10000.00
ECP-ECO-15x6	86511702	Silver	0.59	0.24	Q76	10000.00
ECP-ECO-18x6	86511703	Silver	0.71	0.24	Q29	10000.00
ECP-ECO-18x9	86511704	Silver	0.71	0.35	Q30	10000.00
ECP-ECO-22x22	86511708	Silver	0.87	0.87	Q34	10000.00
ECP-ECO-27x12.5	86511705	Silver	1.06	0.49	Q31	10000.00
ECP-ECO-27x17.5	86511706	Silver	1.06	0.69	Q32	10000.00
ECP-ECO-27x27	86511707	Silver	1.06	1.06	Q33	10000.00

cab ECP-ECO polyester label (Continued...)



Type	Part number	Color	Label Length inch	Label width inch	Software Type	Pack qty.
ECP-ECO-60x40	86511711	Silver	2.36	1.57	Q35	2000.00
ECP-ECO-90x60	86511712	Silver	3.54	2.36	Q36	1500.00
ECP-ECO-100x150	86511713	Silver	3.94	5.91	Q37	600.00
ECP-ECO labels, yellow						
ECP-ECO-11x6	86511500	Yellow	0.43	0.24	Q62	10000.00
ECP-ECO-11x9	86511501	Yellow	0.43	0.35	Q63	10000.00
ECP-ECO-15x6	86511502	Yellow	0.59	0.24	Q64	10000.00
ECP-ECO-18x6	86511503	Yellow	0.71	0.24	Q65	10000.00
ECP-ECO-18x9	86511504	Yellow	0.71	0.35	Q66	10000.00
ECP-ECO-22x22	86511508	Yellow	0.87	0.87	Q70	10000.00
ECP-ECO-27x12.5	86511505	Yellow	1.06	0.49	Q67	10000.00
ECP-ECO-27x17.5	86511506	Yellow	1.06	0.69	Q68	10000.00
ECP-ECO-27x27	86511507	Yellow	1.06	1.06	Q69	10000.00
ECP-ECO-60x40	86511511	Yellow	2.36	1.57	Q71	2000.00
ECP-ECO-90x60	86511512	Yellow	3.54	2.36	Q72	1500.00
ECP-ECO-100x150	86511513	Yellow	3.94	5.91	Q73	600.00



pavonis

pavonis



PRODUCT INFORMATION

The pavonis thermal transfer printer offers high-resolution 300 dpi printing at 5.00 inch per second. The ribbon holding system for 300 m rolls reduces the frequency at which print film needs to be changed. The cutting mechanism supplied with the printer makes print process handling even easier.

Specifications

- Print speed: 2.00 – 5.00 inch/s
- Max. printing width: 4.17 inch
- Printer ribbon roll: 984 ft, 1.00 inch core diameter
- Label roll: 5.00 inch outside diameter
- Memory: 4 MB Flash, 8 MB SDRAM, SD card reader up to 4 GB

- Material width: 0.79 to 4.41 inch
- Thickness: 0.002 – 0.01 inch, max. 150 g/m²

Included with the printer

- pavonis desktop printer
- Power cable
- Power unit
- USB data cable
- Roll coil for labels
- Roll coil for the ribbon
- Empty roll core for rewinding the ribbon
- Pre-installed cutter
- pavonis driver CD

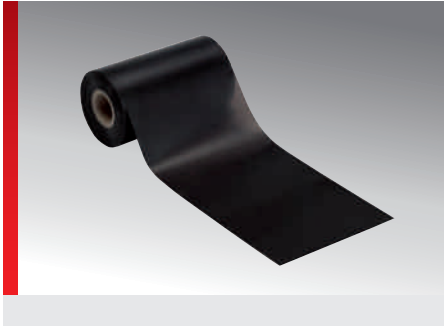
SPECIFICATIONS



Type	Part number	Pack qty.
pavonis thermal transfer labeling system	86661720	1.00

Labeling systems

FHW - pavonis resin/wax color printer ribbon



PRODUCT INFORMATION

Printing with the FHW resin/wax color ribbons is done at normal heat. In general, printing with FHW resin-wax ribbons offers a broad field of applications for almost all materials requiring medium to low durability.

The FHW color ribbons, based on a mix of resin and wax are ideal for printing onto matte synthetic films and laminated or coated

papers, matte polyesters, polypropylene, Polyolefins (heat-shrink conduits), polyethylene, vinyl (PVC) and Polyamide.

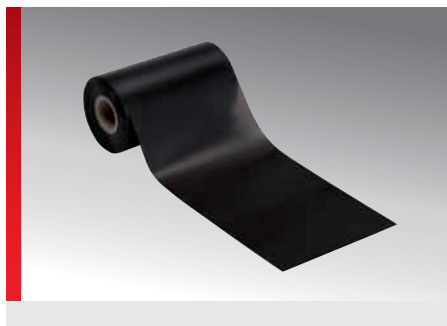
Furthermore, smooth and shiny synthetic film surfaces can be printed just like with the FH color ribbons. But we recommend FH+ or FH++ color ribbons in this case for higher durability.

SPECIFICATIONS



Type	Part number	Color	Roll width inch	Roll Length m	Pack qty.
FHW - color ribbons for Pavonis thermal transfer printer					
FHW 40x300	86662100	black	1.57	984.25	984.25
FHW 50x300	86662101	black	1.97	984.25	984.25
FHW 60x300	86662102	black	2.36	984.25	984.25
FHW 70x300	86662103	black	2.76	984.25	984.25
FHW 80x300	86662104	black	3.15	984.25	984.25
FHW 90x300	86662105	black	3.54	984.25	984.25
FHW 100x300	86662106	black	3.94	984.25	984.25
FHW 110x300	86662107	black	4.33	984.25	984.25
FHW 110x300	86662108	Red	4.33	984.25	984.25
FHW 110x300	86662109	Green	4.33	984.25	984.25
FHW 110x300	86662110	Reflecting blue	4.33	984.25	984.25
FHW 110x300	86662111	White	4.33	984.25	984.25
FHW 110x300	86662112	Almond brown	4.33	984.25	984.25
FHW 110x300	86662113	Violet	4.33	984.25	984.25
FHW 110x300	86662114	Matt gold	4.33	984.25	984.25
FHW 110x300	86662115	Matt silver	4.33	984.25	984.25
FHW 110x300	86662116	Metallic gold	4.33	984.25	984.25
FHW 110x300	86662117	Metallic silver	4.33	984.25	984.25

FH - pavonis color ribbon, resin



PRODUCT INFORMATION

The FH resin-based ribbons are ideal for printing on glossy synthetic films. Printing takes place at high temperatures for optimum durability.

FH series

The most common field of application for FH resin-based ribbons is that of synthetic labels with a need for high durability.

FH+ series

While the FH series already offers good smudge-proof qualities at optimum printing temperature, the FH+ series is smudge- and scratch-proof, and is also resistant to many cleaning agents and oils.

FH++ series

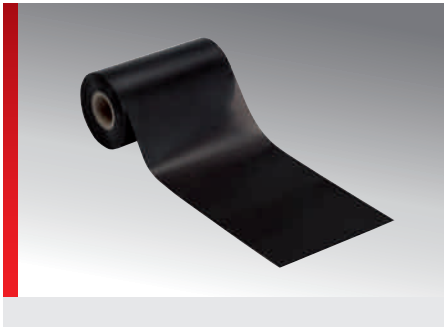
Optimum durability is offered by the FH++ series, which is resistant to exposure of most industrial cleaners and oil vapors.

SPECIFICATIONS



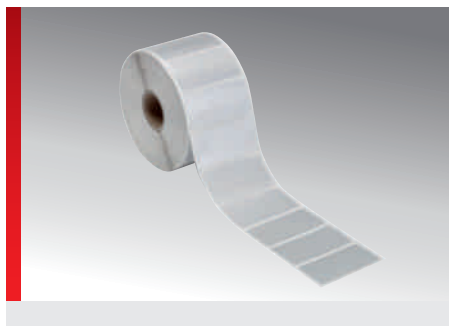
Type	Part number	Color	Roll width inch	Roll Length m	Pack qty.
FH color ribbons for Pavonis					
FH 40x300	86662200	black	1.57	984.25	984.25
FH 50x300	86662202	black	1.97	984.25	984.25
FH 60x300	86662205	black	2.36	984.25	984.25
FH 70x300	86662208	black	2.76	984.25	984.25
FH 80x300	86662210	black	3.15	984.25	984.25
FH 90x300	86662212	black	3.54	984.25	984.25
FH 110x300	86662214	black	4.33	984.25	984.25
FH+ color ribbons for Pavonis					
FH+ 40x300	86662201	black	1.57	984.25	984.25
FH+ 50x300	86662203	black	1.97	984.25	984.25
FH+ 55x300	86662204	black	2.17	984.25	984.25
FH+ 60x300	86662206	black	2.36	984.25	984.25
FH+ 70x300	86662209	black	2.76	984.25	984.25
FH+ 80x300	86662211	black	3.15	984.25	984.25
FH+ 90x300	86662213	black	3.54	984.25	984.25
FH+ 110x300	86662215	black	4.33	984.25	984.25
FH+ 110x300	86662217	Signal red	4.33	984.25	984.25
FH+ 110x300	86662218	Signal green	4.33	984.25	984.25
FH+ 110x300	86662219	Signal blue	4.33	984.25	984.25
FH+ 110x300	86662220	Signal white	4.33	984.25	984.25

FH - pavonis color ribbon, resin (Continued...)



Type	Part number	Color	Roll width inch	Roll Length m	Pack qty.
FH+ 110x300	86662221	Signal gray	4.33	984.25	984.25
FH+ 110x300	86662222	Signal orange	4.33	984.25	984.25
FH+ 110x300	86662223	Signal yellow	4.33	984.25	984.25
FH+ 110x300	86662224	Metallic gold	4.33	984.25	984.25
FH+ 110x300	86662225	Metallic silver	4.33	984.25	984.25
FH++ color ribbons for Pavonis					
FH++ 60x300	86662207	black	2.36	984.25	984.25
FH++ 110x300	86662216	black	4.33	984.25	984.25

TEP - pavonis polyester label



PRODUCT INFORMATION

Polyester 50 µm film comes with a slight gloss and a surface coating to ensure outstanding color fixing when inscribing with thermal transfer print systems and synthetic resin-based thermal transfer ribbons. The smooth surface of the material enables full-cover color transfer, ensuring precise lettering. The polyester labels are suitable for adhesion to metal, gloss paints and high surface energy plastics. The permanent acrylate adhesive exhibits high

initial adhesion and at least 1006 N/m FTM 1 on steel after 72 hours. The silver polyester labels are UL-certified for thermal transfer printing using our resin ribbons.

TEP - Polyester labels are suitable for

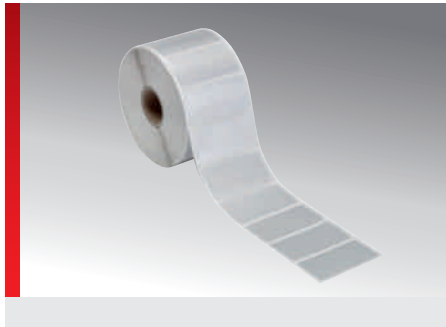
- Device identification in areas protected from the weather
- Components with smooth surfaces
- Components without curves or corners

SPECIFICATIONS

- 40.00 – 302.00 °F
- Polyester film
- Label rail with thermal transfer printer

Type	Part number	Color	Label Length inch	Label width inch	Diameter inch	Roll width inch	Recommended color ribbon	Pack qty.
Rectangular design								
TEP 6,35x6,35	86496100	White	0.25	0.25		3.35	FH 90x300	10000.00
TEP 6,35x6,35	86496300	Yellow	0.25	0.25		3.35	FH 90x300	10000.00
TEP 6,35x6,35	86496500	Silver	0.25	0.25		3.35	FH 90x300	10000.00
TEP 12,7x11	86496101	White	0.50	0.43		3.35	FH 90x300	10000.00
TEP 12,7x11	86496301	Yellow	0.50	0.43		3.35	FH 90x300	10000.00
TEP 12,7x11	86496501	Silver	0.50	0.43		3.35	FH 90x300	10000.00
TEP 15x6,35	86496102	White	0.59	0.25		4.13	FH 110x300	10000.00
TEP 15x6,35	86496302	Yellow	0.59	0.25		4.13	FH 110x300	10000.00
TEP 15x6,35	86496502	Silver	0.59	0.25		4.13	FH 110x300	10000.00
TEP 16x9	86496103	White	0.63	0.35		3.86	FH 110x300	10000.00
TEP 16x9	86496303	Yellow	0.63	0.35		3.86	FH 110x300	10000.00
TEP 16x9	86496503	Silver	0.63	0.35		3.86	FH 110x300	10000.00
TEP 16,5x5,1	86496104	White	0.65	0.20		3.15	FH 80x300	10000.00
TEP 16,5x5,1	86496304	Yellow	0.65	0.20		3.15	FH 80x300	10000.00
TEP 16,5x5,1	86496504	Silver	0.65	0.20		3.15	FH 80x300	10000.00
TEP 17x7,4	86496105	White	0.67	0.29		3.78	FH 110x300	10000.00
TEP 17x7,4	86496305	Yellow	0.67	0.29		3.78	FH 110x300	10000.00
TEP 17x7,4	86496505	Silver	0.67	0.29		3.78	FH 110x300	10000.00
TEP 18x8	86496106	White	0.71	0.31		4.13	FH 110x300	10000.00
TEP 18x8	86496306	Yellow	0.71	0.31		4.13	FH 110x300	10000.00
TEP 18x8	86496506	Silver	0.71	0.31		4.13	FH 110x300	10000.00
TEP 18x12,7	86496107	White	0.71	0.50		3.66	FH 110x300	10000.00

TEP - pavonis polyester label (Continued...)

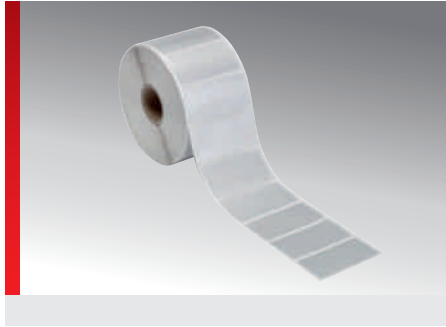


Type	Part number	Color	Label Length inch	Label width inch	Diameter inch	Roll width inch	Recommended color ribbon	Pack qty.
TEP 18x12,7	86496307	Yellow	0.71	0.50		3.66	FH 110x300	10000.00
TEP 18x12,7	86496507	Silver	0.71	0.50		3.66	FH 110x300	10000.00
TEP 19x6,35	86496108	White	0.75	0.25		3.35	FH 90x300	10000.00
TEP 19x6,35	86496308	Yellow	0.75	0.25		3.35	FH 90x300	10000.00
TEP 19x6,35	86496508	Silver	0.75	0.25		3.35	FH 90x300	10000.00
TEP 20x8	86496109	White	0.79	0.31		4.13	FH 110x300	10000.00
TEP 20x8	86496309	Yellow	0.79	0.31		4.13	FH 110x300	10000.00
TEP 20x8	86496509	Silver	0.79	0.31		4.13	FH 110x300	10000.00
TEP 20x9	86496110	White	0.79	0.35		3.98	FH 110x300	10000.00
TEP 20x9	86496310	Yellow	0.79	0.35		3.98	FH 110x300	10000.00
TEP 20x9	86496510	Silver	0.79	0.35		3.98	FH 110x300	10000.00
TEP 22x22	86496545	Silver	0.87	0.87		3.54	FH 90x300	10000.00
TEP 23x6	86496111	White	0.91	0.24		4.33	FH 110x300	10000.00
TEP 23x6	86496311	Yellow	0.91	0.24		4.33	FH 110x300	10000.00
TEP 23x6	86496511	Silver	0.91	0.24		4.33	FH 110x300	10000.00
TEP 25x8	86496112	White	0.98	0.31		3.35	FH 90x300	10000.00
TEP 25x8	86496312	Yellow	0.98	0.31		3.35	FH 90x300	10000.00
TEP 25x8	86496512	Silver	0.98	0.31		3.35	FH 90x300	10000.00
TEP 25,4x12,7	86496113	White	1.00	0.50		3.35	FH 90x300	9000.00
TEP 25,4x12,7	86496313	Yellow	1.00	0.50		3.35	FH 90x300	9000.00
TEP 25,4x12,7	86496513	Silver	1.00	0.50		3.35	FH 90x300	9000.00
TEP 27x12,5	86496548	Silver	1.06	0.49		3.54	FH 90x300	10000.00
TEP 27x18	86496547	Silver	1.06	0.71		3.54	FH 90x300	10000.00
TEP 27x27	86496546	Silver	1.06	1.06		3.54	FH 90x300	10000.00
TEP 31,8x9,4	86496114	White	1.25	0.37		2.76	FH 70x300	10000.00
TEP 31,8x9,4	86496314	Yellow	1.25	0.37		2.76	FH 70x300	10000.00
TEP 31,8x9,4	86496514	Silver	1.25	0.37		2.76	FH 70x300	10000.00
TEP 36x12,7	86496115	White	1.42	0.50		3.15	FH 80x300	10000.00
TEP 36x12,7	86496315	Yellow	1.42	0.50		3.15	FH 80x300	10000.00
TEP 36x12,7	86496515	Silver	1.42	0.50		3.15	FH 80x300	10000.00
TEP 38,1x6,35	86496116	White	1.50	0.25		3.35	FH 90x300	10000.00
TEP 38,1x6,35	86496316	Yellow	1.50	0.25		3.35	FH 90x300	10000.00
TEP 38,1x6,35	86496516	Silver	1.50	0.25		3.35	FH 90x300	10000.00
TEP 38x19	86496117	White	1.50	0.75		3.35	FH 90x300	4000.00

TEP - pavonis polyester label (Continued...)

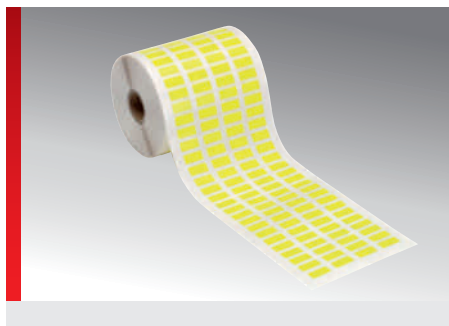
Type	Part number	Color	Label Length inch	Label width inch	Diameter inch	Roll width inch	Recommended color ribbon	Pack qty.
TEP 38x19	86496317	Yellow	1.50	0.75		3.35	FH 90x300	4000.00
TEP 38x19	86496517	Silver	1.50	0.75		3.35	FH 90x300	4000.00
TEP 38x23	86496118	White	1.50	0.91		3.35	FH 90x300	3000.00
TEP 38x23	86496318	Yellow	1.50	0.91		3.35	FH 90x300	3000.00
TEP 38x23	86496518	Silver	1.50	0.91		3.35	FH 90x300	3000.00
TEP/S 45x40	86492300	Yellow	1.77	1.57		3.70	FH 110x300	1500.00
TEP 48x8	86496119	White	1.89	0.31		2.20	FH 60x300	10000.00
TEP 48x8	86496319	Yellow	1.89	0.31		2.20	FH 60x300	10000.00
TEP 48x8	86496519	Silver	1.89	0.31		2.20	FH 60x300	10000.00
TEP 50,8x25,4	86496120	White	2.00	1.00		2.24	FH 60x300	3000.00
TEP 50,8x25,4	86496320	Yellow	2.00	1.00		2.24	FH 60x300	3000.00
TEP 50,8x25,4	86496520	Silver	2.00	1.00		2.24	FH 60x300	3000.00
TEP 55x15	86496121	White	2.17	0.59		2.36	FH 60x300	5000.00
TEP 55x15	86496321	Yellow	2.17	0.59		2.36	FH 60x300	5000.00
TEP 55x15	86496521	Silver	2.17	0.59		2.36	FH 60x300	5000.00
TEP 56x9,5	86496122	White	2.20	0.37		2.36	FH 60x300	3000.00
TEP 56x9,5	86496322	Yellow	2.20	0.37		2.36	FH 60x300	3000.00
TEP 56x9,5	86496522	Silver	2.20	0.37		2.36	FH 60x300	3000.00
TEP 60x34	86496123	White	2.36	1.34		2.52	FH 70x300	2500.00
TEP 60x34	86496323	Yellow	2.36	1.34		2.52	FH 70x300	2500.00
TEP 60x34	86496523	Silver	2.36	1.34		2.52	FH 70x300	2500.00
TEP 60x40	86496124	White	2.36	1.57		2.52	FH 70x300	2500.00
TEP 60x40	86496324	Yellow	2.36	1.57		2.52	FH 70x300	2500.00
TEP 60x40	86496524	Silver	2.36	1.57		2.52	FH 70x300	2500.00
TEP 70x25,4	86496125	White	2.76	1.00		2.99	FH 80x300	3000.00
TEP 70x25,4	86496325	Yellow	2.76	1.00		2.99	FH 80x300	3000.00
TEP 70x25,4	86496525	Silver	2.76	1.00		2.99	FH 80x300	3000.00
TEP 70x32	86496126	White	2.76	1.26		2.99	FH 80x300	3000.00
TEP 70x32	86496326	Yellow	2.76	1.26		2.99	FH 80x300	3000.00
TEP 70x32	86496526	Silver	2.76	1.26		2.99	FH 80x300	3000.00
TEP 74x37	86496127	White	2.91	1.46		3.15	FH 80x300	2000.00
TEP 74x37	86496327	Yellow	2.91	1.46		3.15	FH 80x300	2000.00
TEP 74x37	86496527	Silver	2.91	1.46		3.15	FH 80x300	2000.00
TEP 76,2x25,4	86496128	White	3.00	1.00		3.15	FH 80x300	3000.00
TEP 76,2x25,4	86496328	Yellow	3.00	1.00		3.15	FH 80x300	3000.00
TEP 76,2x25,4	86496528	Silver	3.00	1.00		3.15	FH 80x300	3000.00
TEP 76,2x50,8	86496129	White	3.00	2.00		3.15	FH 80x300	2500.00
TEP 76,2x50,8	86496329	Yellow	3.00	2.00		3.15	FH 80x300	2500.00
TEP 76,2x50,8	86496529	Silver	3.00	2.00		3.15	FH 80x300	2500.00
TEP 80x8	86496130	White	3.15	0.31		3.35	FH 90x300	3000.00
TEP 80x8	86496330	Yellow	3.15	0.31		3.35	FH 90x300	3000.00
TEP 80x8	86496530	Silver	3.15	0.31		3.35	FH 90x300	3000.00
TEP 80x40	86496131	White	3.15	1.57		3.35	FH 90x300	3000.00

TEP - pavonis polyester label (Continued...)



Type	Part number	Color	Label Length inch	Label width inch	Diameter inch	Roll width inch	Recommended color ribbon	Pack qty.
TEP 80x40	86496331	Yellow	3.15	1.57		3.35	FH 90x300	3000.00
TEP 80x40	86496531	Silver	3.15	1.57		3.35	FH 90x300	3000.00
TEP 90x45	86496132	White	3.54	1.77		3.78	FH 110x300	2500.00
TEP 90x45	86496332	Yellow	3.54	1.77		3.78	FH 110x300	2500.00
TEP 90x45	86496532	Silver	3.54	1.77		3.78	FH 110x300	2500.00
TEP 90x60	86496133	White	3.54	2.36		3.78	FH 110x300	2000.00
TEP 90x60	86496333	Yellow	3.54	2.36		3.78	FH 110x300	2000.00
TEP 90x60	86496533	Silver	3.54	2.36		3.78	FH 110x300	2000.00
TEP 100x150	86496134	White	3.94	5.91		4.09	FH 110x300	500.00
TEP 100x150	86496334	Yellow	3.94	5.91		4.09	FH 110x300	500.00
TEP 100x150	86496534	Silver	3.94	5.91		4.09	FH 110x300	500.00
TEP 105x52	86496135	White	4.13	2.05		4.33	FH 110x300	1000.00
TEP 105x52	86496335	Yellow	4.13	2.05		4.33	FH 110x300	1000.00
TEP 105x52	86496145	Signal yellow	4.13	2.05		4.33	FH 110x300	1000.00
TEP 105x52	86496535	Silver	4.13	2.05		4.33	FH 110x300	1000.00
Safety label								
TEP 16x9	86496549	Silver	0.63	0.35		3.86	FH 110x300	10000.00
Round design								
TEP Ø 10,0	86496136	White			0.39	4.13	FH 110x300	10000.00
TEP Ø 10,0	86496336	Yellow			0.39	4.13	FH 110x300	10000.00
TEP Ø 10,0	86496536	Silver			0.39	4.13	FH 110x300	10000.00
TEP Ø 12,5	86496137	White			0.49	4.13	FH 110x300	6000.00
TEP Ø 12,5	86496337	Yellow			0.49	4.13	FH 110x300	6000.00
TEP Ø 12,5	86496537	Silver			0.49	4.13	FH 110x300	6000.00
TEP Ø 15,0	86496138	White			0.59	3.54	FH 90x300	4000.00
TEP Ø 15,0	86496338	Yellow			0.59	3.54	FH 90x300	4000.00
TEP Ø 15,0	86496538	Silver			0.59	3.54	FH 90x300	4000.00
TEP Ø 30,0	86496140	White			1.18	4.25	FH 110x300	3000.00
TEP Ø 30,0	86496340	Yellow			1.18	4.25	FH 110x300	3000.00
TEP Ø 30,0	86496540	Silver			1.18	4.25	FH 110x300	3000.00

TEG - pavonis fabric label



PRODUCT INFORMATION

This self-adhesive woven nylon fabric is both flexible and tear-resistant. Fabric labels have a surface coating to ensure outstanding color fixing when lettering using thermal transfer print systems and resin- or wax/resin-based thermal transfer ribbons. The permanent acrylate adhesive features high initial adhesion, meaning labels can be processed easily. These labels are especially well suited for marking electrical systems, tagging

devices, for adhesion over edges or radii, for cable designations or for use in switching cabinet installations.

TEG - fabric labels are suitable for

- device identification of all kinds
- components with smooth and textured surface finishes
- components with and without curves or corners

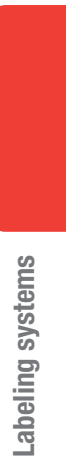
SPECIFICATIONS

- 22.00 – 212.00 °F
- Nylon fabric
- Label rail with thermal transfer printer
-
-

Type	Part number	Color	Label Length inch	Label width inch	Roll width inch	Recommended color ribbon	Pack qty.
TEG 11x6	86497121	White	0.43	0.24	3.70	FH 110x300	10000.00
TEG 15x6	86497315	Yellow	0.59	0.24	4.13	FH 110x300	10000.00
TEG 15x9	86497116	White	0.59	0.35	4.13	FH 110x300	10000.00
TEG 15x9	86497316	Yellow	0.59	0.35	4.13	FH 110x300	10000.00
TEG 17x6	86497317	Yellow	0.67	0.24	3.78	FH 110x300	10000.00
TEG 17x9	86497318	Yellow	0.67	0.35	3.78	FH 110x300	10000.00
TEG 18x8	86497100	White	0.71	0.31	4.13	FH 110x300	10000.00
TEG 18x8	86497300	Yellow	0.71	0.31	4.13	FH 110x300	10000.00
TEG 18x12,7	86497101	White	0.71	0.50	3.66	FH 110x300	10000.00
TEG 18x12,7	86497301	Yellow	0.71	0.50	3.66	FH 110x300	10000.00
TEG 19x6	86497319	Yellow	0.75	0.24	3.35	FH 90x300	10000.00
TEG 19x9	86497320	Yellow	0.75	0.35	3.35	FH 90x300	10000.00
TEG 20x8	86497102	White	0.79	0.31	4.13	FH 110x300	10000.00
TEG 20x8	86497302	Yellow	0.79	0.31	4.13	FH 110x300	10000.00
TEG 20x9	86497103	White	0.79	0.35	3.98	FH 110x300	10000.00
TEG 20x9	86497303	Yellow	0.79	0.35	3.98	FH 110x300	10000.00
TEG 23x6	86497104	White	0.91	0.24	4.33	FH 110x300	10000.00
TEG 23x6	86497304	Yellow	0.91	0.24	4.33	FH 110x300	10000.00
TEG 25x8	86497105	White	0.98	0.31	3.35	FH 90x300	10000.00
TEG 25x8	86497305	Yellow	0.98	0.31	3.35	FH 90x300	10000.00
TEG 25,4x12,7	86497106	White	1.00	0.50	3.35	FH 90x300	9000.00
TEG 25,4x12,7	86497306	Yellow	1.00	0.50	3.35	FH 90x300	9000.00
TEG 36x12,7	86497107	White	1.42	0.50	3.15	FH 80x300	10000.00

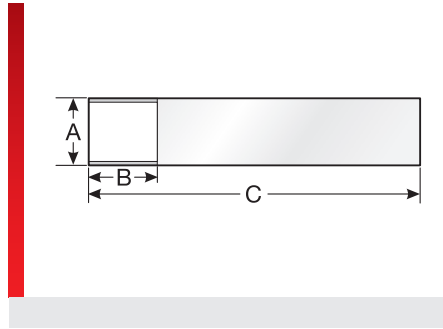
TEG - pavonis fabric label (Continued...)

Type	Part number	Color	Label Length inch	Label width inch	Roll width inch	Recommended color ribbon	Pack qty.
TEG 36x12,7	86497307	Yellow	1.42	0.50	3.15	FH 80x300	10000.00
TEG 38x19	86497109	White	1.50	0.75	3.35	FH 90x300	4000.00
TEG 38x19	86497309	Yellow	1.50	0.75	3.35	FH 90x300	4000.00
TEG 38,1x6,35	86497108	White	1.50	0.25	3.35	FH 90x300	10000.00
TEG 38,1x6,35	86497308	Yellow	1.50	0.25	3.35	FH 90x300	10000.00
TEG 48x8	86497110	White	1.89	0.31	2.17	FH+ 55x300	10000.00
TEG 48x8	86497310	Yellow	1.89	0.31	2.17	FH+ 55x300	10000.00
TEG 50,8x25,4	86497111	White	2.00	1.00	2.24	FH 60x300	3000.00
TEG 50,8x25,4	86497311	Yellow	2.00	1.00	2.24	FH 60x300	3000.00
TEG 56x9,5	86497112	White	2.20	0.37	2.36	FH 60x300	3000.00
TEG 56x9,5	86497312	Yellow	2.20	0.37	2.36	FH 60x300	3000.00
TEG 76,2x25,4	86497113	White	3.00	1.00	3.15	FH 80x300	3000.00
TEG 76,2x25,4	86497313	Yellow	3.00	1.00	3.15	FH 80x300	3000.00
TEG 80x8	86497114	White	3.15	0.31	3.35	FH 90x300	3000.00
TEG 80x8	86497314	Yellow	3.15	0.31	3.35	FH 90x300	3000.00
TEG/S 80x40	86493300	Yellow	3.15	1.57	3.31	FH 90x300	3000.00



Labeling systems

TES - pavonis self-laminating cable tags



PRODUCT INFORMATION

These self-laminating cable tags are ideal for labeling cables, lines and wiring. They provide a printable, colored field on the upper edge and can be removed easily from the backing paper after printing. As an additional protection from external environmental factors, the lettering is wrapped with self-adhesive laminate.

In addition, the backing paper is printed with precisely-dimensioned stripes for optimum sensor detection. The special film is only

0.002 inch thick and is highly flexible and supple. This ensures that the cable tag will not peel back up, even when used for cables with small diameters. The high-transparency laminate ensures the printed lettering remains easy to read. These cable tags can be printed using the Murrplastik Pavonis.

TES - Self-laminating cable markers are suitable for

- wire and cable labeling

SPECIFICATIONS

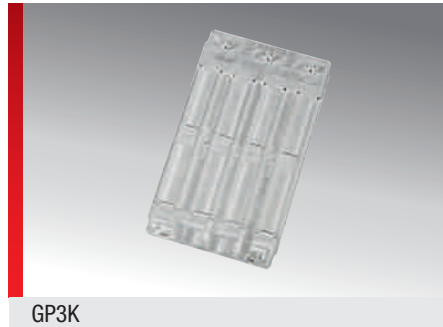
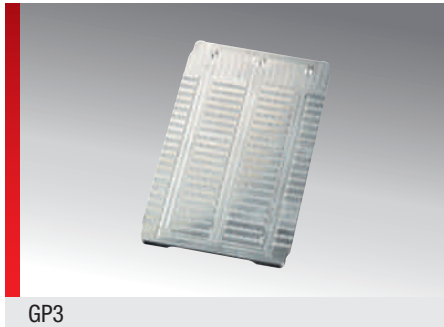
- 4.00 – 176.00 °F
- Polyester film
- Label rail with thermal transfer printer

Type	Part number	Color	Label Length inch (A)	Label width inch (B)	Holder Length inch (C)	Roll width inch	Recommended color ribbon	Pack qty.
TES 6x12x35	86498100	White	0.24	0.47	1.38	3.31	FHW 90x300	10000.00
TES 6x12x35	86498300	Yellow	0.24	0.47	1.38	3.31	FHW 90x300	10000.00
TES 14x6x22	86498101	White	0.55	0.24	0.87	4.02	FHW 110x300	14000.00
TES 14x6x22	86498301	Yellow	0.55	0.24	0.87	4.02	FHW 110x300	14000.00
TES 20x8x32	86498102	White	0.79	0.31	1.26	4.09	FHW 110x300	10000.00
TES 20x8x32	86498302	Yellow	0.79	0.31	1.26	4.09	FHW 110x300	10000.00
TES 25x13x43	86498104	White	0.98	0.51	1.69	4.09	FHW 110x300	6000.00
TES 25x13x43	86498304	Yellow	0.98	0.51	1.69	4.09	FHW 110x300	6000.00
TES 25x14x35	86498103	White	0.98	0.55	1.38	4.09	FHW 110x300	10000.00
TES 25x14x35	86498303	Yellow	0.98	0.55	1.38	4.09	FHW 110x300	10000.00
TES 25x17x70	86498105	White	0.98	0.67	2.76	4.13	FHW 110x300	4000.00
TES 25x17x70	86498305	Yellow	0.98	0.67	2.76	4.13	FHW 110x300	4000.00
TES 25x25x70	86498106	White	0.98	0.98	2.76	4.13	FHW 110x300	4000.00
TES 34x17x70	86498107	White	1.34	0.67	2.76	4.13	FHW 110x300	3000.00
TES 34x26x100	86498108	White	1.34	1.02	3.94	4.17	FHW 110x300	2000.00
TES 34x26x100	86498308	Yellow	1.34	1.02	3.94	4.17	FHW 110x300	2000.00
TES 34x32x150	86498109	White	1.34	1.26	5.91	4.17	FHW 110x300	2000.00
TES 34x32x150	86498309	Yellow	1.34	1.26	5.91	4.17	FHW 110x300	2000.00



Accessories

Base plates for labeling systems



PRODUCT INFORMATION

Adapter to accommodate the various label materials on Murrplastik labeling systems.

Type	Part number	Pack qty.
Base plates for labels		
GP1	86351210	1.00
GP3	86351212	1.00
GP3K	86661034	1.00
GP3Q	86661035	1.00
GP4	86351214	1.00
GP4E	86351216	1.00
GP5	86351218	1.00
GP KDE	86661037	1.00
GRPD/10	86351016	1.00
GRPD/18	86351018	1.00
Base plates for Duomatt, Monomatt, Alu, Alumatt and labels		
GPU A3	86621026	1.00
GPU A4	86621023	1.00
Replacement mat for base plates GPU A3 and GPU A4		
GPU A3 420x300 adhesive mat	86721022	1.00
GPU A4 305x205 adhesive mat	86721020	1.00
Replacement mat for GPU A4 base plate, excellent adhesive qualities for ELO perforated labels		
GPU A4 305x205 adhesive mat, red	86721024	1.00

Holder frame/metal tongue/metal hook



AK



MZ...



HK

PRODUCT INFORMATION

Holder frame

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.

Metal tongue

The metal tongue is required to assemble the idents and to insert them into the label sleeves or other label holders.

Hook

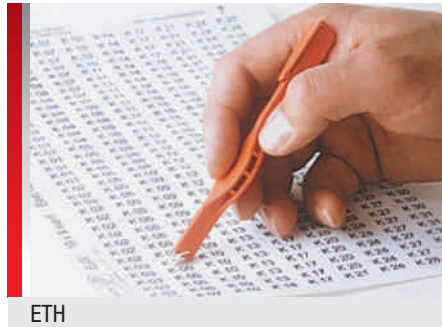
The metal hook is required for removing labels which have been inserted previously.

Type	Part number	Pack qty.
AK holder frame	86392010	1.00
MZ 5 metal tongue	86392014	1.00
MZ 9 metal tongue	86392016	1.00
HK Hook	86392012	1.00

ACS special function tool



KM T10



ETH



BZS T20

PRODUCT INFORMATION

Multi-purpose tool

Multi-purpose tool KM-T10 for fabricating label sleeves. For cut goods KM and KMH in 0.35 and 0.59 inch widths.

Universal pliers

Universal pliers BZS T20 for cutting the BZS label rail and the transparent cover to length. Supplied with alternative cutting heads.

Label carrier

ETH label lifter, for lifting individual labels from a label sheet and placing them securely on the surface it is to be fixed to.

Type	Part number	Pack qty.
KM T10 multi-purpose tool	86392020	1.00
BZS T20 Universal pliers	86392030	1.00
ETH label lifter	86562210	1.00

Accessories



Appendix



The five label types for labeling control and signaling gear

The Murrplastik labeling system program offers five different options for labeling control and signaling gear, as described in the following paragraphs.

1 Other manufacturer's label holders

A label from the Murrplastik labeling system may be clicked into or simply inserted in the manufacturer's original control and signaling gear label holder.

COMPATIBLE MURRPLASTIK LABEL PLATES:

- Engraving materials e.g. DuoMatt DM
- ELO/ELW polyester labels
- KS label



- fixed-purpose
- not freely positionable
- assigned

KS	DM	ELW/ELO	Labeling by
			Hand inscription
			Plotting
			Engraving
			Laser inscription
			Office printer

2 Neutral, universal labels

COMPATIBLE WITH CONTROL AND SIGNALING GEAR FROM ANY MANUFACTURER.

This labeling method involves affixing any label from the Murrplastik labeling system program in any position directly onto the control cabinet.

COMPATIBLE MURRPLASTIK LABEL PLATES:

- Polycarbonate labels, e.g. KS
- DuoMatt DM/TMG engraving materials
- AluMatt ALM/ALU engraving materials
- Labels, e.g. ELO/ELW
- Stainless steel labels

- independent
- can be positioned freely
- not assigned

Stainless steel



PC labels



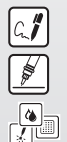
DuoMatt/TrioMatt labels



AluMatt/aluminum labels



Paper-/Polyester-/ fabric labels



3 BT and BTK label holders

COMPATIBLE WITH CONTROL AND SIGNALING GEAR FROM ANY MANUFACTURER.

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

All labels up to a thickness of 2.0 mm are suitable: the Murrplastik labeling product range covers simple adhesive labels, on to polycarbonate labels, or even labels made of materials like Duo and Alumatt.

The BT and BTK label holders may be applied anywhere at the control cabinet or plant equipment by gluing, screwing or riveting them to the surface.

The BTK label holders come backed with a self-adhesive film as a mounting aid: apply, screw down, finished!












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

Labeling the control and signaling gear remains flexible, even after installation: changing a designation can be as easy as switching the inserted label.

COMPATIBLE MURRPLASTIK LABEL PLATES:

- Polycarbonate labels, e.g. KS
- DuoMatt DM/TMG engraving materials
- AluMatt ALM/ALU engraving materials
- Labels, e.g. ELO/ELW



KS	DM/TMG	ALM/ALU	ELW/ELO	Labeling by
				Hand inscription
				Plotting
				Engraving
				Laser inscription
				Office printer

- independent
- can be positioned freely
- not assigned

4 BT 22.5 label holder system

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

System and label holder then form a fixed mounting unit. This universal label holder is compatible with control and signaling gear from many manufacturers, provided the outside diameter is 22.5 mm or greater. A variation with a special cut-out contour has been developed for control and signaling gear from Telemecanique.

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

The inscription on control and signaling gear can still be changed after installation: simply switch the inserted label plate to provide a different message.

COMPATIBLE MURRPLASTIK LABEL PLATES:

- Polycarbonate labels, e.g. KS
- DuoMatt DM/TMG engraving materials
- AluMatt, aluminum



KS	DM/TMG	ALM/ALU	Labeling by
			Hand inscription
			Plotting
			Engraving
			Laser inscription

- task specific
- not freely positionable
- assigned



5 BMA label holder system

Our labeling system for the latest generation of control and signaling gear consists of separate system and label holders.

This is what makes this system highly flexible: the system holder is affixed with the device in the control cabinet, and is compatible with control and signaling gear from many manufacturers (outside diameter of 22.5 mm and greater). A system holder for control and signaling gear with an outside diameter of 30 mm (1.18 inches) is available for the US market.

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 added to protect the inserted labels against soiling, mechanical stresses or environmental influence.







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

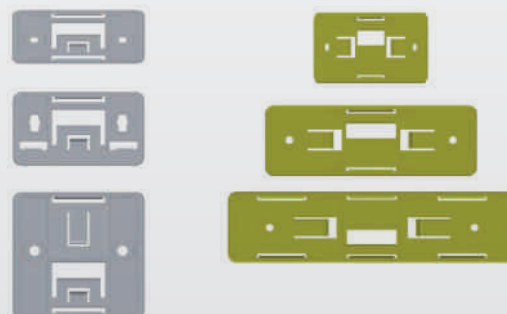
If at least two system holders (terminal bases) are mounted in a terminal row, then the BZS 9 or BZS 15 label rails can help provide labeling along the full front length of the control cabinet by utilizing this row of terminals. These label rails can also be outfitted with a transparent cover to protect the labels and inscriptions.

COMPATIBLE MURRPLASTIK LABEL PLATES:

- Polycarbonate labels, e.g. KS
- DuoMatt DM/TMG engraving materials



KS	DM/TMG	Labeling by
		Hand inscription
		Plotting
		Engraving
		Laser inscription



- task specific
- not freely positionable
- assigned



Engraving materials and engraving tools - Information

DuoMatt/engraving mat

Double-layer material

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

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

Suitable for engraving using ink or laser inscription (CO₂).

TrioMatt

Three-layered material

Similar to DuoMatt, but with one colored surface coat and two different colored bases.

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

Suitable for engraving using ink or laser inscription (CO₂).

AluMatt

Three-layered material

Two aluminum coats with an intermediary layer of melamine.

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

Aluminum

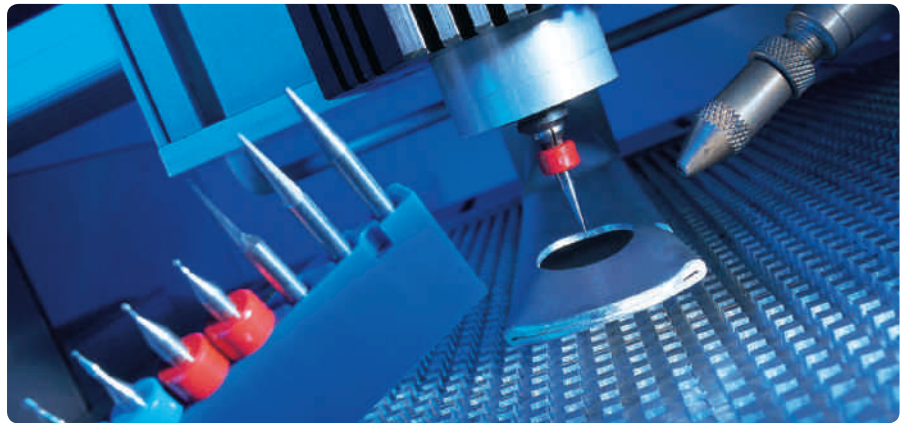
Solid aluminum with a silver, black or other colored anodic layer.

For silver anodized labels the script must be inlaid after engraving; that extra step is not necessary for other colors.

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 can

never be compared with ferrous materials 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. Aluminum and non-ferrous metals can be

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." But that does require space (chip groove) to move the chips past the cutter's 'mass'. A comparison of cross-sections of various types clearly shows that the single-fluted cutter offers the most open space (= size of the chip groove) 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), wood compounds (chip-board) and non-ferrous materials (soft aluminum, Alucobond, etc) a single-fluted cutter is generally better, since the problem of cutter erosion is usually less serious than that of clogging.

lubricated with special emulsions, while suds provide a significantly better surface for Plexiglas. If cooling is not possible, then the RPM and infeed values should not be selected too low (heat removal through the chips).

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 larger cross-section surface of the multiple-blade cutter, needed for the harder metals, displaces 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 smaller 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 aluminum types (short chipping). We only recommend triple fluted cutters for very hard non-ferrous metals (very hard aluminum alloys, brass,..) as well as for ferrous materials.

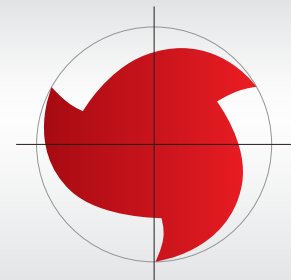
Cross-section of a single-fluted cutter:

The single blade cutter is distinguished by a large open area.



Cross-section of a triple-fluted cutter:

The three blades require a lot of room.





Selection table Combination options Labels/Base plates

Label Type Part. No.	GP1 86351210	GP3 86351212	GP3K 86661034	GP3Q 86661035	GP4 86351214	GP4E 86351216	GP5 86351218	GP KDE 86661037	GRPD/10 86351016	GRPD/18 86351018	requires no base plate	GPU A3 86621026	GPU A4 86621023	GPU 140x140 86621029
GP for	Label plates											Sheet / label materials		
KS 75/50														
KS 95/75														
KSZ	X													
TK														
TS														
KS 4/x		X												
KSDx			X											
KNQ				X										
ABB														
KES														
KAB														
KMR														
KPX														
KSI														
KWI														
WGO														
KLK														
KMO														
KPF					X									
KS 15/x														
KSA														
KSE														
KSO														
KSK														
KSL														
KSS														
KTE														
SKS														
KDL/E														
KET						X								
KSI														
B&R														
BEC							X							

Label Type Part. No.	GP1 86351210	GP3 86351212	GP3K 86661034	GP3Q 86661035	GP4 86351214	GP4E 86351216	GP5 86351218	GP KDE 86661037	GRPD/10 86351016	GRPD/18 86351018	requires no base plate	GPU A3 86621026	GPU A4 86621023	GPU 140x140 86621029
GP for	Label plates											Sheet / label materials		
KAB 5/5.4-5														
KAB 17/10														
KPX 5/5-5 ZS														
KPX 6/5-6 ZS							X							
KPX U/5 ZS														
KS* 70x9														
WGO 5/5-5														
KDE								X						
KSE x/10									X					
KSE x/18										X				
KS 5/10						X								
ALM														
ALU														
DM														
EDG														
ES														
ELG														
ELPT														
ELW												X		
ESL														
Label div.														
KBT														
MM														
TBT														
TTE/L														
ALU/K														
MM/K														
EST													X	
ESK														
BS/x														
KSF 10/8											X			
KSN														



Device selection table, using base plates

Devices/ Base plates	GP1 86351210	GP3 86351212	GP3K 86661034	GP3Q 86661035	GP4 86351214	GP4E 86351216	GP5 86351218	GP KDE 86661037	GRPD/10 86351016	GRPD/18 86351018	GPU A3 86621026	GPU A4 86621023	pulsar. GPU 140x140 86621029	pictor ² Label plate 86625147
GP for	Label plates										Sheet / label materials			
PLOTTER														
MVPS Basic	X	X	X	X	X	X	X	X	X	X	-	X	-	-
MVPS G3-T	X	X	X	X	X	X	X	X	X	X	-	X	-	-
MVPS G3-T0	X	X	X	X	X	X	X	X	X	X	-	X	-	-
MVPS G3	X	X	X	X	X	X	X	X	X	X	X	X	-	-
MVPS G3 XXL	X	X	X	X	X	X	X	X	X	X	X	X	-	-
Porty P300E	X	X	X	X	X	X	X	X	X	X	-	-	-	-
ENGRAVING														
MGS 50	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MGS 60	-	-	-	-	-	-	-	-	-	-	X	X	-	-
INKJET														
pictor ²	X	X	X	X	X	X	X	X	X	X	-	-	-	X
pictor ² BLACK	X	X	X	X	X	X	X	X	X	X	-	-	-	X
LASER														
pulsar M6	X	X	X	X	X	X	X	X	X	X	-	-	X	-



Material descriptions

PMMA Polymethyl methacrylate Co-Polymer

Duomatt is a UV-stable material and has been tested under extreme conditions for resistance to deterioration. Duomatt retains its physical properties and its brilliant surface over many years (approx. 10 to 20 years). DuoMatt is halogen-free and silicone-free.

Processing temperature:	-3 °C to 82 °C (26.60 °F to 179.60 °F)
Flammability:	Fire classification HB according to UL-94:
Water absorption:	0.36 %
Crack resistance:	35 %
Impact strength:	58.5 J/m ²

ABS Acrylonitrile butadiene styrene

The thin surface on DuoMatt Siemens silver SSI and SI brushed facilitates a finer typeface than Duomatt. But the silver-colored foil is less hard wearing than standard DuoMatt material.

Processing temperature:	-20 °C to 85 °C (-4 °F to 185 °F)
Flammability:	Fire classification HB according to UL-94:
Water absorption:	0.36 %
Crack resistance:	30 %
Impact strength:	no break

PC Polycarbonate

Displays 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.

Temperature stability:	to 140 °C (284 °F)
resistance to deformation:	at 1.8 N/mm 135° C (275 °F)
Flammability:	V0 i.a.w. UL94
Halogen-free	i.a.w. DIN/VDE 0472, part 815
UV-stabilized	

PP Polypropylene

Polypropylene demonstrates good mechanical properties. No tendencies toward stress crack corrosion. Surface hardness, tensile strength, temperature stability and long-term stress resilience values are greater than those of Polyethylenes. The material contains no halogens and laser inscription is possible.

Water absorption:	ISO 62	0.04 %
Moisture absorption:	ISO 62	0.01 %
Heat distortion	ISO 75	90 °C (194 °F)
Flammability:	Fire classification HB according to UL94:	
Surface resistance:	ASTM D257 Ohm/sq 10(to the 14th power)	

PA Polyamide

Broad range of properties covered by different types (PA 6 and PA6.6 are frequently used). Note the particularly strong resistance to impact and abrasion with generally good electrical and mechanical properties. When dry, PA is sensitive to impact. Water absorption renders PA flexible.

Temperature stability:	to 140 °C (284 °F)
Fire classification:	V2 i.a.w. UL94

PVC Polyvinyl chloride

Soft PVC is made from polyvinyl chloride, softeners and process materials, e.g. stabilizers and lubricants. PVC is resistant to corrosive saline solutions and most acids.

Temperature stability:	to 60 °C (140 °F)
Fire classification:	V0 i.a.w. UL94

TPU Thermoplastic Polyurethane

Outstanding features of this TPU 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 operational temperature:	w-35 °C to 120 °C (-31 °F to 248 °F)
Fire classification:	V0 i.a.w. UL94
Halogen-free	i.a.w. DIN/VDE 0472, part 815

Material descriptions

Label laser foil (ELF)

PAK Polyacrylate

Available in the colors silver/black and black/white
The foil demonstrates a reliable, permanent adhesive strength for applications on Polyolefins (PE/PP), slightly oily base surfaces and powder coatings. The Polyacrylate foil is halogen-free and very resistant to chemicals, extreme temperatures and other environmental influences.

Temperature-resistant: -40 °C to +300 °C (-40 °F to 572 °F)

Self-extinguishing after 15 seconds in case of fire
Non-drip Covers highly contrasting base/primer colors.

Heat-shrink labels

Type ST-BT

- Halogen-free Polyolefin
- Application: Aviation and railway and marine industries, tunnel construction
- Shrink rate 2:1
- EN 45545-2:2013 R22/R23

Usage temperature: -55 °C to +105 °C (-67 °F to 221 °F)
Tensile strength: 10N/mm²
Crack resistance: 200 %
Flammability rating: HB per ASTM D 635

Type ST-ECO

- Application: general labeling
- Shrink rate 3:1
- Flame resistant
- Excellent printing results

Usage temperature: -55 °C to +135 °C (-67 °F to 275 °F)
Water absorption: 0.20 %
Break resistance: kl. 11N/mm²
Spec. Volume resistance: 10¹⁶ Ohm/cm
Flammability rating: UL 224, 125 °C (257 °F)

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 film	-40 °C to 150 °C (-40 °F to 302 °F) permanent min. processing temperature 5 °C (41 °F)	V0 i.a.w. UL94	17 N/10 mm
EDG	Reinforced textile	0 °C to 80 °C (32 °F to 176 °F)		9 N/25 mm

Adhesive 467

- Acrylate A-30
- Fire classifications: MIL-P-19834 B, Amend 1Typ1
UL approved (MH-11410)
complies with AGA and CSA requirements
- Adhesive thickness 0.05 mm

Adhesive strength: 11 N/10 mm
Thermal stability: -40 °C to 150 °C (-40 °F to 302 °F)
permanent
200 °C transient
Processing temperature: 18 °C (64 °F) minimum



Material descriptions

Adhesive 468

- Acrylate A-30
- Fire classifications: MIL-P-19834 B, Amend 1 Typ1
UL approved (MH-11410)
complies with AGA and CSA requirements
- Suitable for rough and textured surfaces
- RoHS-specified
- Adhesive thickness 0.13 mm

Adhesive 1780

- Polyethylene foam

Adhesive 1917

- Natural rubber with acrylic-coated fabric
- Weather and water proof
- High adhesive strength

Adhesive 4830

- Polyester film with liner
- UL listed
- Interior / exterior application

Adhesive 4883

- Stable, durable acrylate
- Universal adhesive with high tack
and extreme adhesive power

Adhesive 4930

- Polyacrylate mixed with adhesive resin

Adhesive 4965

- Polyacrylate mixed with adhesive resin

Adhesive 5917

- Natural rubber, heat tempered
- High adhesive power on most substrates
- Quick and easy removal

Adhesive 9088

- Modified acrylate
- High-performance, double-sided adhesive tape
- High degree of holding power on surface finishes with high and low
energization
(e.g. PE, PP)
- Suitable for rough and textured surfaces
- Developed for strong adhesion

Adhesive strength: 11 N/10 mm
Thermal stability: -40 °C to 150 °C (-40 °F to 302 °F) permanent
200 °C transient
Processing temperature: 18 °C minimum

Adhesive strength: 10 N/15 mm
Thermal stability: -40 °C to 150 °C (-40 °F to 302 °F) permanent
Processing temperature: 10 °C to 80 °C

Adhesive power on steel: 3.8 N/cm
Crack resistance: 7%
Tear strength: 100 N/cm
Thermal stability: 180 °C (-356 °F) (30 min)

Thermal stability: -40 °C to 150 °C (-40 °F to 302 °F)
Processing temperature: 10 °C minimum
Shelf life: 2 years at 21° C (70 °F) and 50%
humidity

Adhesive power on glass: 15 N/25mm
Thermal stability: -40 °C to 150 °C (-40 °F to 302 °F) permanent
Processing temperature: 5 °C (41 °F) minimum
Solubility: soluble

Thermal stability: 93 °C maximum
149 °C transient
Processing temperature: 10 °C minimum
Solubility: insoluble

Thermal stability: 93 °C (199 °F) maximum
149 °C (300 °F) transient
Processing temperature: 10 °C (50 °F) minimum
Solubility: insoluble

Adhesive power on steel: 9.5 N/25mm
Storage: not above 25 °C (77 °F) and
55 % rel. humidity

Adhesive strength: 150 (N/100 mm)
Thermal stability: -4 °C to 93 °C (25 °F to 199 °F) permanent
150 °C (302 °F) transient
Processing temperature: 18 °C (64 °F) minimum
Resistance to solvents: Good

Material properties

Murrplastik Systemtechnik uses high-quality polycarbonate for your label plates, meeting the requirements laid down by UL94 for the top fire classification V0. This offers clear advantages over the polyamides as used by our competitors.

Polycarbonate (PC) is used for any applications requiring a high-quality surface finish with respect to scratch resistance and gloss level. For instance, PC is often used in the automotive sector for headlight lenses and as PC/ABS blends for the interior. By contrast, even as a blend, polyamide (PA) is rarely found in interior fittings. Polyamides are, however, prevalent under the hood, for example, where less significance is attached to the appearance.




Polyamide has another unfavorable property for use as a label: its ambient water absorption of approx. two percent by weight. This will cause dimensional variations (smaller dimensions at low temperatures and low air humidity, larger dimensions at high temperatures and high air humidity). The absorption of water does not tend to affect the dimensions of the labels too severely, but it does make an undue impact on the properties of the material.

For instance, 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).

Polycarbonate displays a clear advantage compared to Polyamide, especially with regard to printability. Since PC is more prone to chemical reaction it lends itself well to labeling with ink and pigments and also to laser inscription. Whereas PA scarcely reacts to the energy application of laser light the color change achieved with PC is outstanding.

The chemical reactivity of polycarbonate during the inscription process makes inks and pigments very abrasion-resistant. Whereas the resistance to mechanical abrasion and water is sufficient in both materials, the inscription on polyamide wears off significantly faster if it comes into contact with oil, petrol or spirits. Polycarbonate, however, is resistant to these substances as well.

Tested material properties and associated test procedures

Characteristic	Test procedure
 Flammability	Flammability according to UL94
 Halogen-free rating	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 resistant	Test in UV light chamber in accordance with Murrplastik in-house standard. Assessment of labeling for clear legibility based on DIN EN ISO-4892-2.
Aging	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 of 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.



Index of Types

TYPE	PAGE
A4+M	178
ABB	101
AK	201
Aluminum oxide	170
ALU-N lubricant	170
ASI-Snap	43
B+R	109
Base plates	158
BEC	80
BK23	66 – 71
BK30	72 – 77
BMA	129
BS	53, 114
BT	126 – 128
BZS	116 – 118, 121
BZS T20	202
BZS/F	119 – 121
cab	177 – 179
CAB	81
CAM	163, 164, 166 – 170
Cleaning set:	160
Cutter	172
Double-fluted cutter	173
ECP premium	181
EDG	124
ELF	149
ELG	123
ELO	122, 132
ELPT	123
ELW	123, 132
Engraving option	156
EOS1	179
ESK	147
ESL	60
EST	148
ETH	202
FB-BT	180
FB-ECO	180

TYPE	PAGE
FH	189
FHW	188
GP KDE	200
GP*	200
GPU*	200
Graver	171
GRPD*	200
HK	201
Ink	160
Ink cleaner	160
Ink pen	159
Isolation engraver	175
KAB	82, 100
KDE	56
KES	106
KET	83
KLG/F	84
KM	38 – 41
KM 2	112
KM 20	112
KM 6	113
KM T10	202
KMH	41
KMH/Q	42
KMO	102
KMR	85
KNQ	57
KPF	107
KPX	87
KS	45 – 50, 103
KS KDL/E	103
KSA	98
KSD	55
KSE	58
KSF	104
KSI	90
KSK	111, 131
KSL	105

TYPE	PAGE
KSN	59
KSO	51
KSS	97
KSZ	110
KT	32
KTE	99
KTH	34
KTH/Q	36
KTN	44
KWI	91
MGS	162
MPKSN	59
MVPS Basic	152
MVPS G3	154
MVPS G3-T	153
MVPS G3-XXL	155
MW 1	59
MZ	201
pavonis	186, 187
pictor ²	140 – 143
Porty	161
Pressure ball	160
pulsar,	144 – 146
Rub-out cutter	174
Set of tools	176
S-hook	203
SKDL/E	115
SKS	96
Software	138
ST-BT-H	62
ST-ECO	63 – 65
TA	134
TEG	196
TEP	191
TES	198
TK	93
TS	134
WGO	94, 108

All information regarding the chemical and physical properties of Murrplastik products, as well as application advice given verbally, in writing or in experiments, is given to the best of our knowledge.

It does not exempt the purchaser from the duty to carry out inspections and tests to determine the exact suitability of the products for the intended use.

The purchaser is solely liable for the application, use, and installation of the products. He must also comply with the legal and official provisions, and observe any industrial property rights of third parties.

Our General Terms and Conditions apply.

Subject to technical alterations.

INSTALLATION TYPES



Sleeve system

Mount by sliding sleeve over product



Direct labeling system

Direct push-on mounting system



Cable tie system with sleeves

Sleeve mounted with cable ties



Cable tie system plate

Plate 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

LABELING TECHNOLOGY



Inscription with **plotter**



Inscription with **hand pen**



Inscription with **Office laser printer**



Inscription by **engraving**



Inscription with **matrix printer**



Inscription with **Pulsar laser**



Inscription with **thermal laminating system**



Inscription with **inkjet printer**



Pre-inscribed label



Heat-shrink conduit labeling

PRODUCT APPROVALS



rail vehicles

Product approvals in rail vehicles of the manufacturers Siemens, Bombardier, Alstom, Talgo for use in short and long distance traffic, as well as for regional transport systems.



Automobile industry

Product approvals in plants and machines of the automotive industry, as Audi, BMW, Citroën Peugeot, Daimler AG, Fiat, Karmann, Opel, Renault, VW for example.



Public buildings and facilities

Product approvals for media bearing

installations (electricity, air, water), supply, control, networks/grids, warning and signaling units



Air, water, road transport product approvals for

Air traffic vehicles: Media bearing installations, electricity, hydraulics

Watercraft: Electrical, hydraulics, pneumatics

Road vehicles: Bus, truck, special-purpose vehicles



Mechanical engineering

SPECIFICATIONS



Temperature range



Material



Fire classification UL 94



Additional information



Adhesive

LABELING



Part is **halogen free**



Part is **UV resistant**



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