



LABELING SYSTEMS



2005 / 2006

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Labeling systems

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**QUALITY-
MANAGEMENT**

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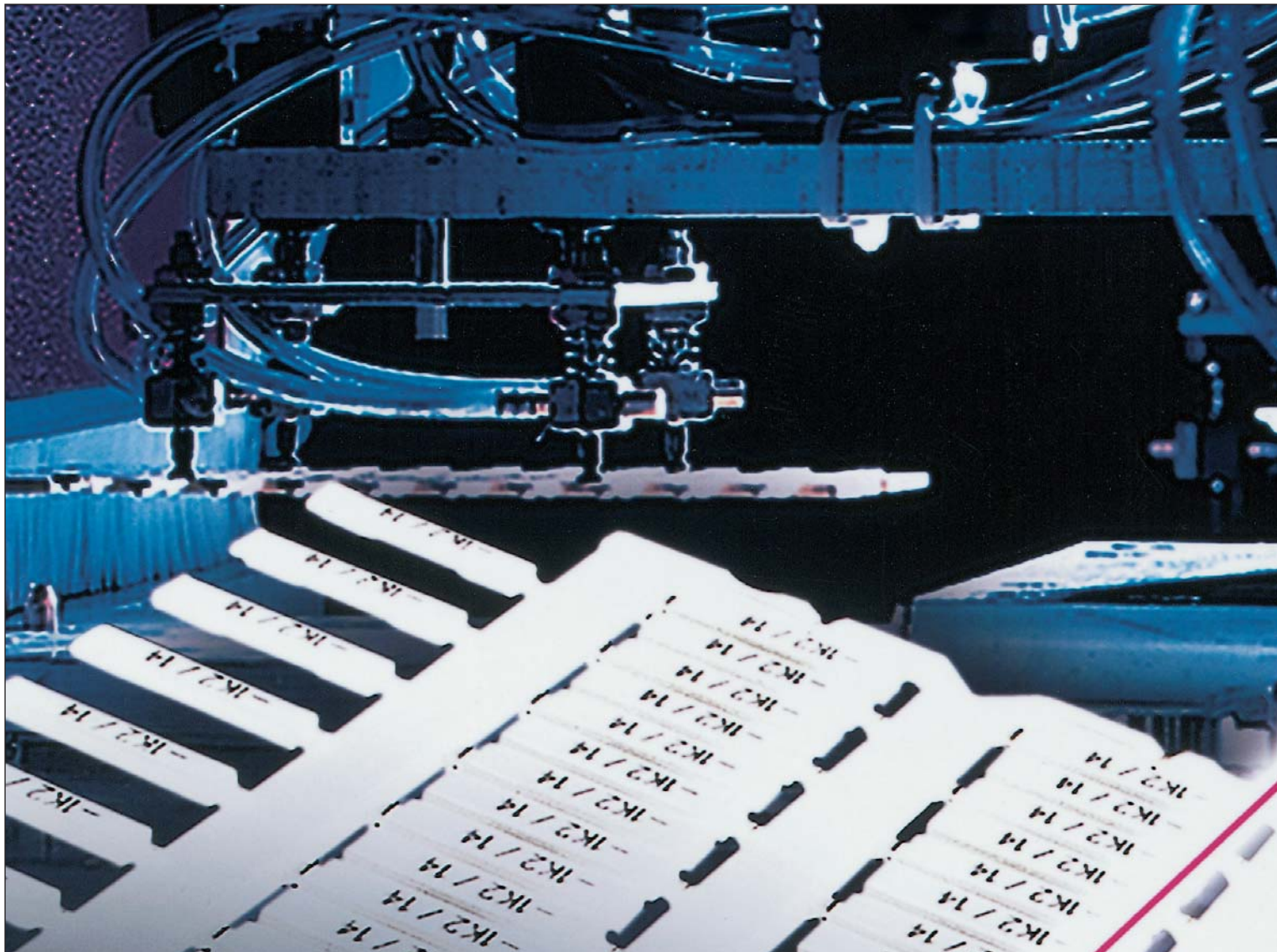
Internet: <http://www.murrplastik.com>

e-mail: cablemgmt@murrplastik.com



Information

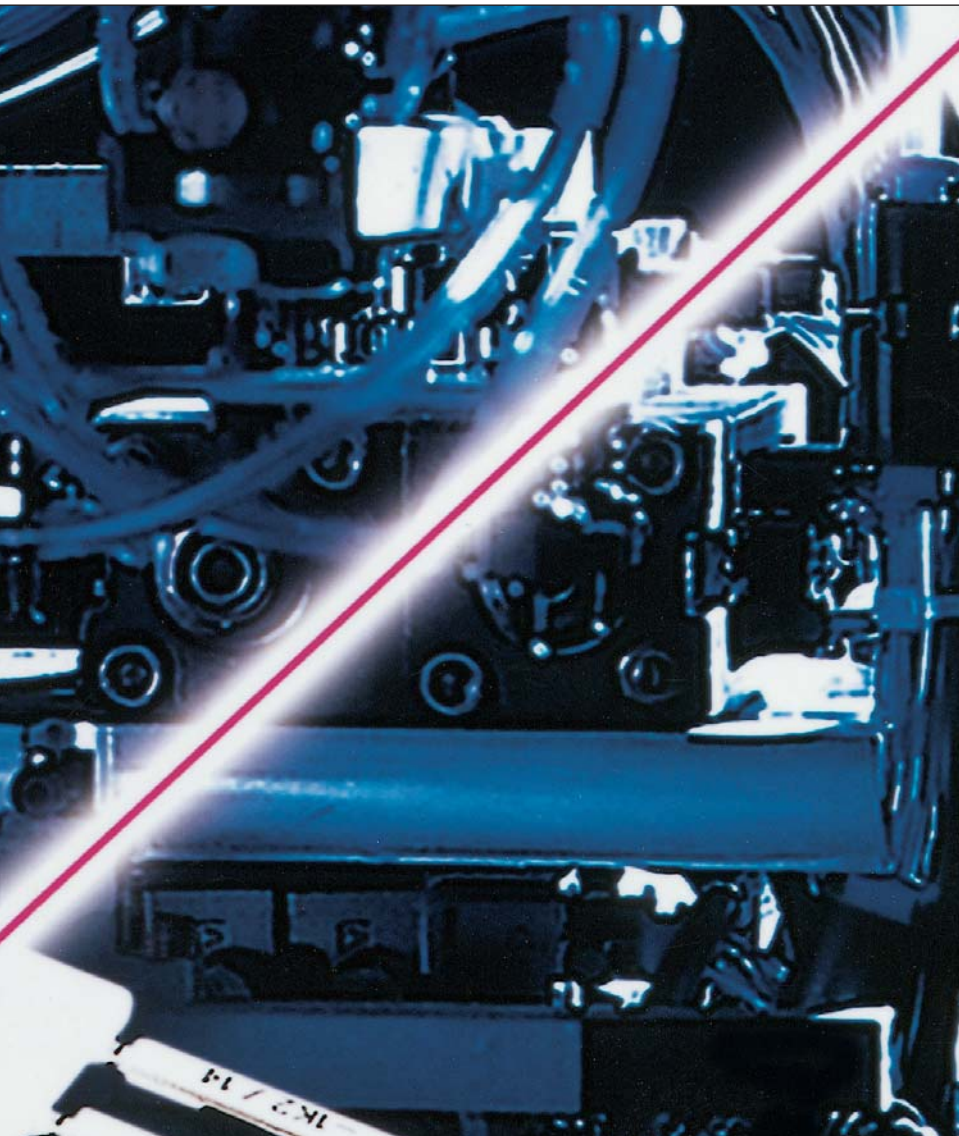
The history of labeling



Since the requirement for labeling electrical components and wiring began, there has been a continuous and changing demand for cost-effective, time-saving and flexible methods of manufacture (while systems have become more and more complex), challenging the makers of labeling systems to keep coming up with new and innovative ideas.

Some years ago Murrplastik Systemtechnik GmbH developed a fast labeling system for identifying machines and components. The labeling system is based on pre-printed ident inserts (with individual letters, numbers and symbols) and various sleeves and holders into which the ids can be inserted. With this method of

labeling few components are required to achieve rapid, clean and durable results. The secret of the low component requirement lies with the invariable typeface on pre-printed label lettering for which a large number of different holders has been created. This system is still current, but in 1986 Murrplastik developed a computer-

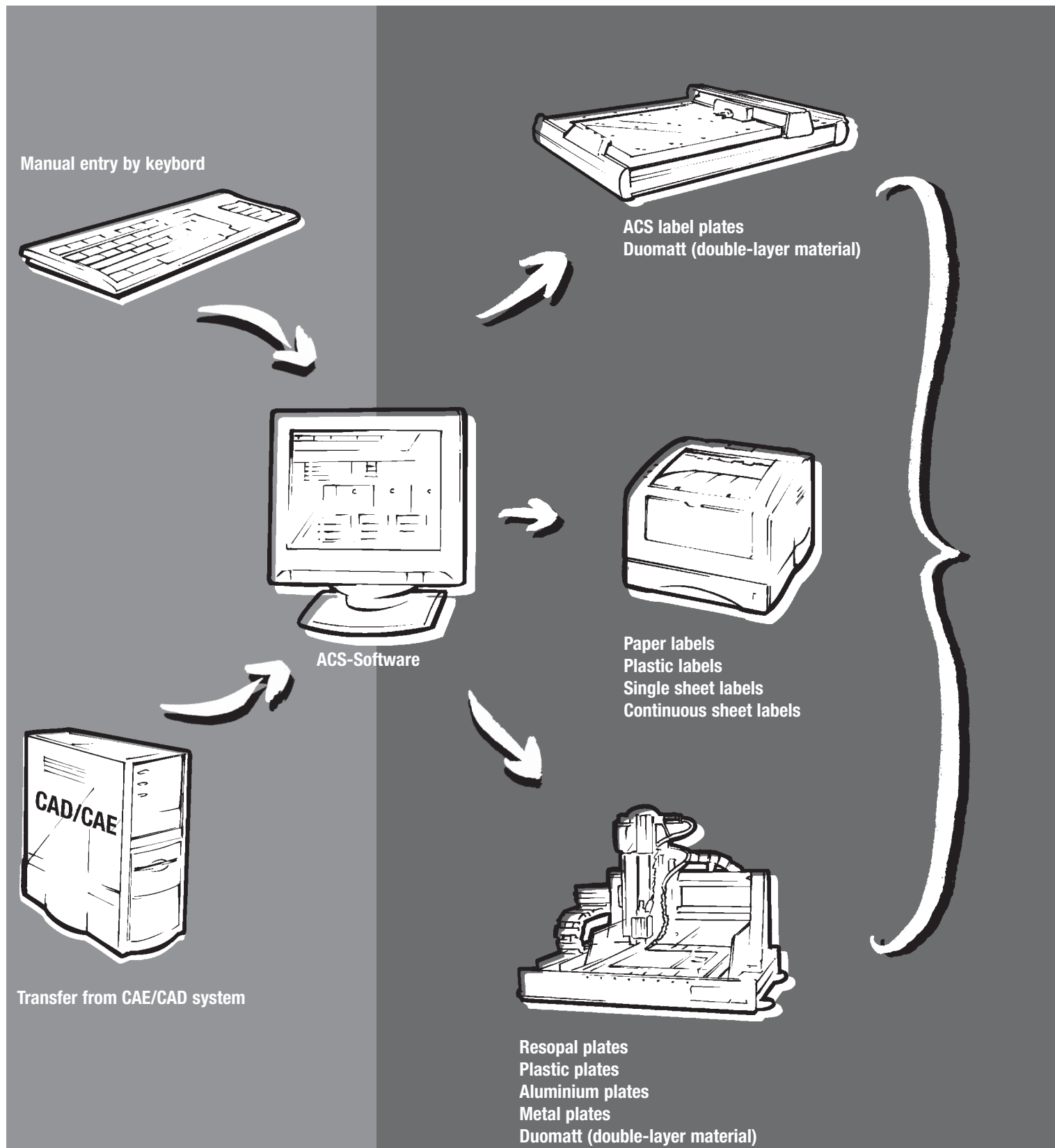


generated labeling software application and hardware which has been extremely successful. The advent of this new software and hardware brought the added speed and flexibility of being able to make labels on site as and when required. Over the last few years user software has taken on a different complexion.

User software has evolved to include various options for engraving, printing, laser engraving and plotting. Links to overriding CAD/CAE systems make it easier to transfer data to the output devices free of errors. The constant addition of inscription materials makes it easier to meet modern-day labeling

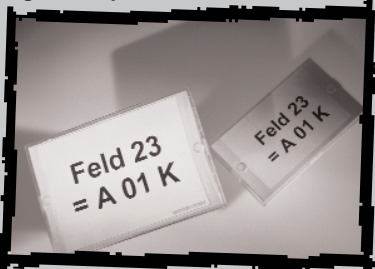
requirements. To sum up, the original handwritten (barely legible) label has evolved into a universal labeling system designed to meet all labeling requirements and to enable us to achieve our objective of saving you time.

Start: How it's done

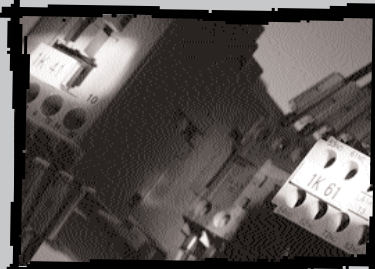




Labeling of push-buttons and signal lamps



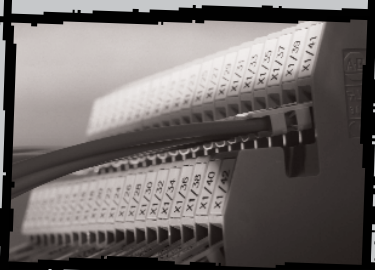
System labeling



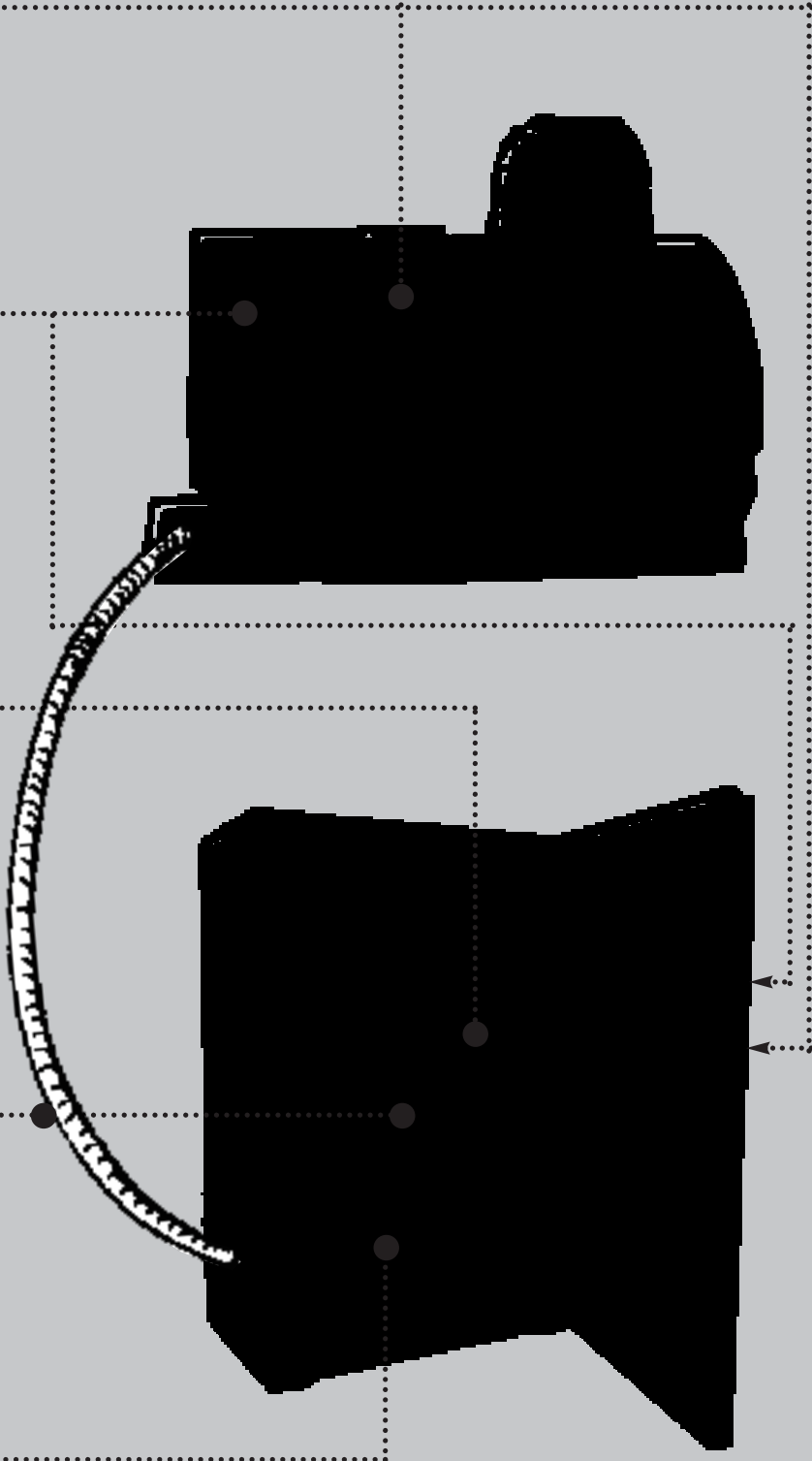
Control gear and component location labeling



Labeling of single wires, cables and conduits



Terminal block labeling





Software

Labeling everything with one software package

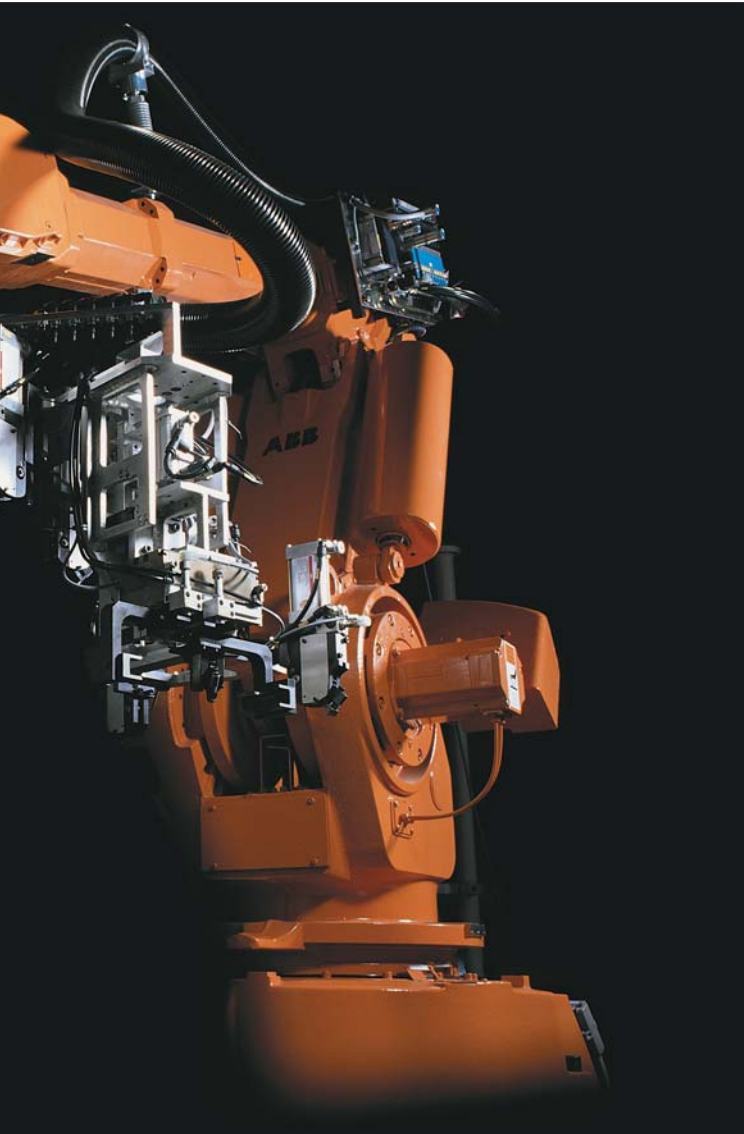


Labeling is intended to aid man-machine communication through the use of colors, numbers, symbols or plain text, and to facilitate safe handling of machinery. The universal labeling software ACS 2000 Professional is a fast and straightforward means of generating text, numbers, graphics or symbols in-house and printing them on neutral label holders.

It is supplied with a symbol database containing standardized symbols used in electrics, mechanics, hydraulics and pneumatics. Other symbols of your choice can be added to the database using the editing function. A CAD interface module connects the application to the E-CAE or to other planning systems, allowing rapid and accurate data transfer of function

texts, wiring diagrams, terminal or apparatus lists and machine schedules.

A CAD interface generator allows the user to customize individual interfaces to the application programs. Auxiliary tools enable labeling data to be freely assigned to the labeling materials required. Manipulation of text and color attributes can be tailored to



Photograph: Courtesy of ABB Flexible Powertrain Assembly GmbH

requirements at a click of the mouse. All Windows-compatible output devices are supported.

A flexible flatbed plotter completes the “labeling package” in terms of passive safety features and equipment. The flatbed system has a high labeling capacity and is capable of holding and processing up

to 2,400 wire labeling plates at any one time. The airtight pen station prevents the pens from drying out when in use. The pens can be stored in the system. The label start aid ensures that the labeling is correct and perfect from the very first sign.



Meeting the standard



European standard EN 60204 (VDE 0113 Part 1) ...

... specifies that wires, components and terminals must be clearly identified in the control cabinet.

This identification must remain permanently legible. The labeling systems supplied by Murrplastik meet all these requirements.

The Murrplastik labeling system can be used to label single wires, terminals, control gear, equipment locations, control and signal units,

and components of all different makes. The labeling can be done manually using the Ademark system; alternatively the computer-aided ACS system can be used. Data transfer routines for CAD/CAE packets support the project-specific transfer of labeling information.



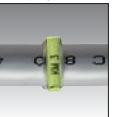
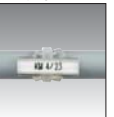
**Murrplastik
is a neutral labeling system
manufacturer.**

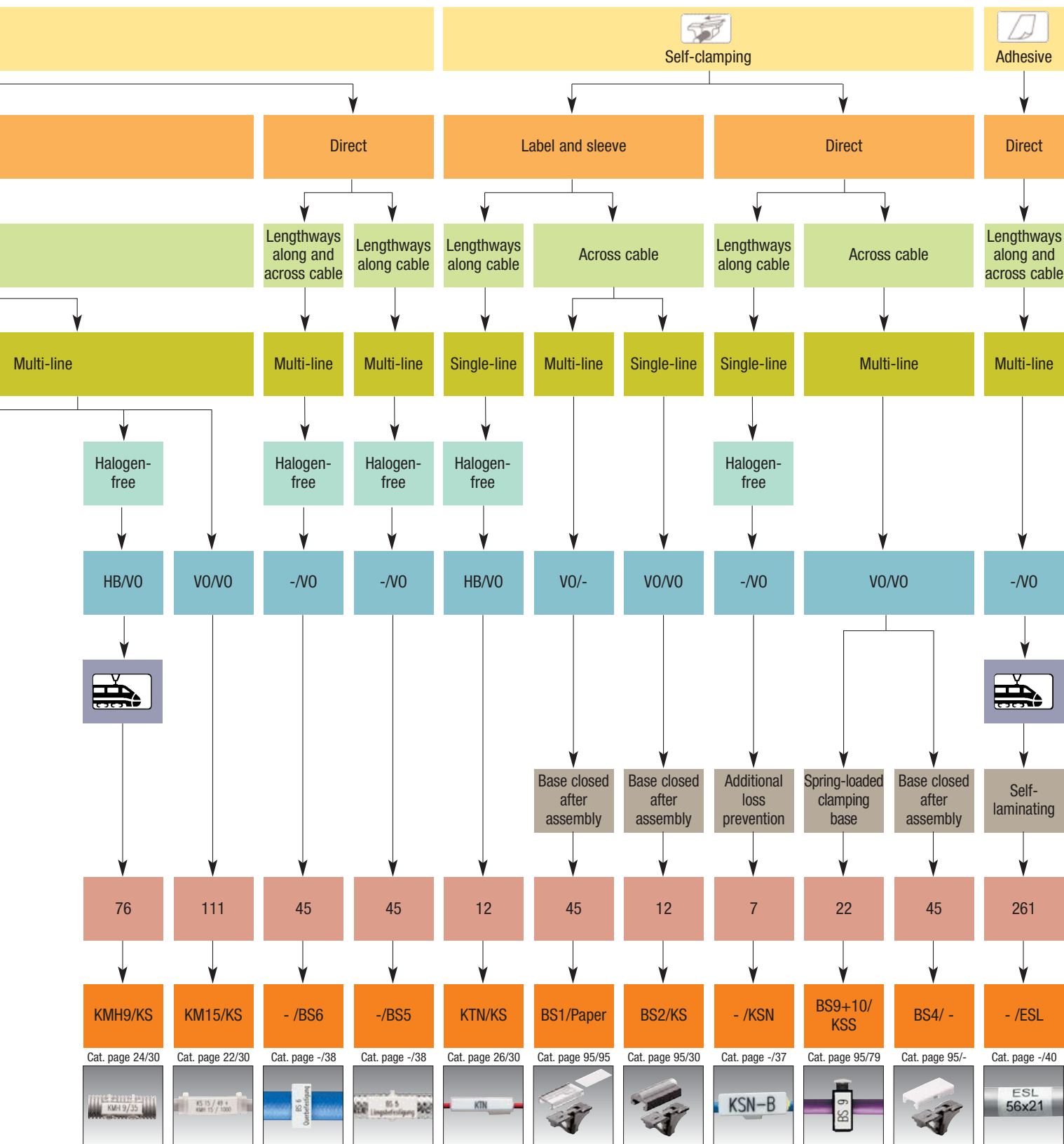
SINGLE WIRE, CABLE AND CONDUIT LABELING



Single wire, cable and conduit labeling

Selection table

Installation method	 Push-on sleeve					 Cable tie				
Labeling method	Label with sleeve		Direct			Label with sleeve				
Mounting direction	Lengthways along cable		Lengthways along cable			Across cable	Lengthways along cable			
Inscription	Single-line		Single-line			Single-line	Single-line			
Material properties			Halogen-free		Halogen-free		Halogen-free			
Fire classification acc. to UL of label/holder	VO/VO	HB/VO	VO/VO	-/VO	-/VO	VO/VO	VO/VO	HB/VO	VO/VO	VO/VO
Railway approval										
Special features			High packing density			Small printable area				Large printable area
Max. no. of characters (font size 24)	16	16	16	8	10	6	12	12	12	76
Type of holder/label	KT/KS	KTH/KS	KTH/Q/KS	- /KDE	-/KSE	KM3/KS	KM4/KS	KMH4/KS	KMH/Q/KS	KM9/KSO
	Cat. page 16/30	Cat. page 18/30	Cat. page 20/30	Cat. page -/35	Cat. page -/36	Cat. page 22/30	Cat. page 22/30	Cat. page 24/30	Cat. page 25/30	Cat. page 22/34
										

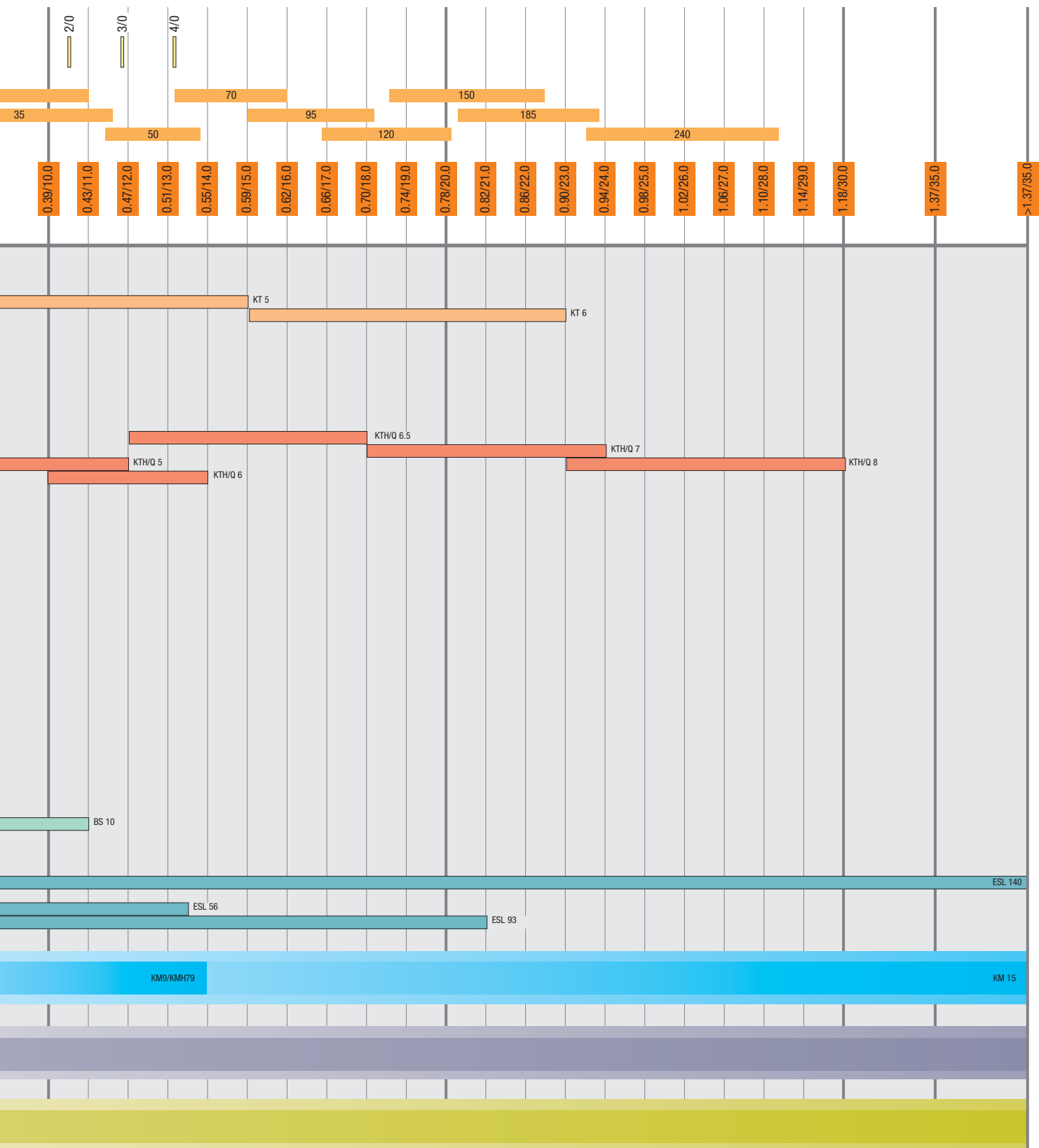




Single wire, cable and conduit labeling

Assignment table

Core cross section acc. to AWG	26 24 22 20 18 16 14 12 10 8 6 4 2 1 1/0
Core cross section in mm ²	0.5 0.75 1 1.5 2.5 4 6 10 16 25
Core cross section in inch/mm	0/0 0.01/0.5 0.03/1.0 0.05/1.5 0.07/2.0 0.09/2.5 0.11/3.0 0.13/3.5 0.15/4.0 0.17/4.5 0.19/5.0 0.21/5.5 0.23/6.0 0.25/6.5 0.27/7.0 0.29/7.5 0.31/8.0 0.33/8.5 0.35/9.0 0.37/9.5 0.39/10.0
 KT	KT 0 KT 1 KT 2 KT 3 KT 4
 KTH	KTH 0 KTH 1 KTH 2 KTH 3 KTH 4
 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
 ESL	ESL 20 ESL 35
 KM/KMH KMH/Q	Depends on length of cable tie (cable tie width max. 0.11") KM4/KMH 4/KMH/Q4
 KBT	Depends on length of cable tie (cable tie width max. 0.11")
 BS 5/BS 6	Depends on length of cable tie (cable tie width max. 0.11")





Single wire, cable and conduit labeling



Label sleeves KT (standard sleeve)



-40 to +140 °F / -40 to +60 °C



PVC



V0



Standard label sleeve



Use in electrical systems and installations of all kinds

High-quality, fully transparent label sleeves for labeling wires, cables and conduits.

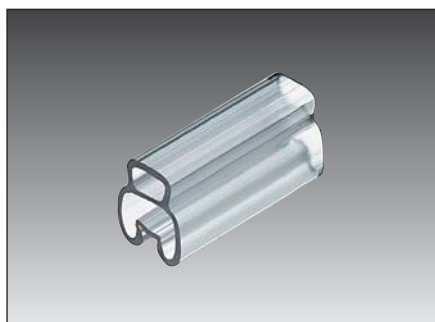
They hold the idents (BK) and the ACS labels type KS 4... or DM4...

Six versions are available covering the entire core cross section range from 0.22 mm² to 120 mm².

The sleeves come in different lengths.

The special KT 2/20x9 or KT 2/35x9 sleeves are for multi-wire labeling.

They hold the ACS labels type KSO or DM 9...



Type	Order no.	Application range from - to inch	Core cross section * from - to mm ²	For label plate	No. of idents BK23/BK30	Pack qty.
Sleeve length 0.39" (10 mm)						
KT 0/10	86201010	0.05-0.07	0.22-0.5	—	4/3	2,000
KT 1/10	86201012	0.07-0.09	0.5-1.0	—	4/3	2,000
KT 2/10	86201014	0.09-0.15	0.75-2.5	—	4/3	2,000
KT 3/10	86201016	0.15-0.25	2.5-6.0	—	4/3	1,000
KT 4/10	86201018	0.23-0.39	10.0-25.0	—	4/3	1,000
KT 5/10	86201020	0.35-0.59	25.0-50.0	—	4/3	1,000
KT 6/10	86201022	0.59-0.90	50.0-120.0	—	4/3	500
Sleeve length 0.47" (12 mm)						
KT 0/12	86201210	0.05-0.07	0.22-0.5	KS 4/12; DM 4...	5/4	2,000
KT 1/12	86201212	0.07-0.09	0.5-1.0	KS 4/12; DM 4...	5/4	2,000
KT 2/12	86201214	0.09-0.15	0.75-2.5	KS 4/12; DM 4...	5/4	2,000
KT 3/12	86201216	0.15-0.25	2.5-6.0	KS 4/12; DM 4...	5/4	1,000
KT 4/12	86201218	0.23-0.39	10.0-25.0	KS 4/12; DM 4...	5/4	1,000
KT 5/12	86201220	0.35-0.59	25.0-50.0	KS 4/12; DM 4...	5/4	1,000
KT 6/12	86201222	0.59-0.90	50.0-120.0	KS 4/12; DM 4...	5/4	500
Sleeve length 0.62" (16 mm)						
KT 0/16	86201610	0.05-0.07	0.22-0.5	DM 4...	6/5	2,000
KT 1/16	86201612	0.07-0.09	0.5-1.0	DM 4...	6/5	2,000
KT 2/16	86201614	0.09-0.15	0.75-2.5	DM 4...	6/5	2,000
KT 3/16	86201616	0.15-0.25	2.5-6.0	DM 4...	6/5	1,000
KT 4/16	86201618	0.23-0.39	10.0-25.0	DM 4...	6/5	1,000
KT 5/16	86201620	0.35-0.59	25.0-50.0	DM 4...	6/5	750
KT 6/16	86201622	0.59-0.90	50.0-120.0	DM 4...	6/5	500

Single wire, cable and conduit labeling



Label sleeves KT (standard sleeve)

Type	Order no.	Application range from - to inch	Core cross section * from - to mm ²	For label plate	No. of idents BK23/BK30	Pack qty.
Sleeve length 0.70" (18 mm)						
KT 0/18	86201810	0.05-0.07	0.22-0.5	KS 4/18; DM 4...	7/6	2,000
KT 1/18	86201812	0.07-0.09	0.5-1.0	KS 4/18; DM 4...	7/6	2,000
KT 2/18	86201814	0.09-0.15	0.75-2.5	KS 4/18; DM 4...	7/6	2,000
KT 3/18	86201816	0.15-0.25	2.5-6.0	KS 4/18; DM 4...	7/6	1,000
KT 4/18	86201818	0.23-0.39	10.0-25.0	KS 4/18; DM 4...	7/6	1,000
KT 5/18	86201820	0.35-0.59	25.0-50.0	KS 4/18; DM 4...	7/6	750
KT 6/18	86201822	0.59-0.90	50.0-120.0	KS 4/18; DM 4...	7/6	300
Sleeve length 0.90" (23 mm)						
KT 0/23	86202310	0.05-0.07	0.22-0.5	KS 4/23; DM 4...	10/7	2,000
KT 1/23	86202312	0.07-0.09	0.5-1.0	KS 4/23; DM 4...	10/7	2,000
KT 2/23	86202314	0.09-0.15	0.75-2.5	KS 4/23; DM 4...	10/7	1,000
KT 3/23	86202316	0.15-0.25	2.5-6.0	KS 4/23; DM 4...	10/7	1,000
KT 4/23	86202318	0.23-0.39	10.0-25.0	KS 4/23; DM 4...	10/7	1,000
KT 5/23	86202320	0.35-0.59	25.0-50.0	KS 4/23; DM 4...	10/7	500
KT 6/23	86202322	0.59-0.90	50.0-120.0	KS 4/23; DM 4...	10/7	250
Sleeve length 1.18" (30 mm)						
KT 0/30	86203010	0.05-0.07	0.22-0.5	KS 4/30; DM 4...	13/10	1,000
KT 1/30	86203012	0.07-0.09	0.5-1.0	KS 4/30; DM 4...	13/10	1,500
KT 2/30	86203014	0.09-0.15	0.75-2.5	KS 4/30; DM 4...	13/10	1,000
KT 3/30	86203016	0.15-0.25	2.5-6.0	KS 4/30; DM 4...	13/10	1,000
KT 4/30	86203018	0.23-0.39	10.0-25.0	KS 4/30; DM 4...	13/10	500
KT 5/30	86203020	0.35-0.59	25.0-50.0	KS 4/30; DM 4...	13/10	500
KT 6/30	86203022	0.59-0.90	50.0-120.0	KS 4/30; DM 4...	13/10	200
Multi-line inscription						
Sleeve length 0.78" (20 mm)						
KT 2/20x9	86202050	0.09-0.15	0.75-2.5	KSO 20x9; DM 9...	—	1,000
Sleeve length 1.37" (35 mm)						
KT 2/35x9	86203550	0.09-0.15	0.75-2.5	KSO 35x9; DM 9...	—	500

Supplied by the meter in rolls on request

* Single wire, type H05V-K or H07V-K



Single wire, cable and conduit labeling



Label sleeves KTH (halogen-free)



-40 to +176 °F / -40 to +80 °C



EVA



HB



Halogen-free



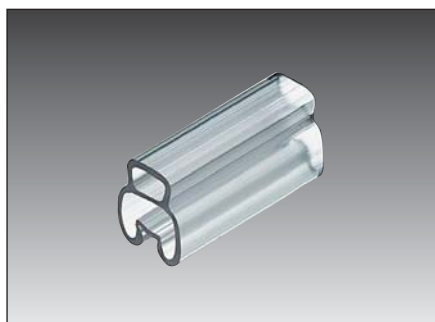
Use in electrical systems and installations of all kinds

High-quality, fully transparent, halogen-free label sleeves for labeling wires, cables and conduits.

They hold the idents (BK) and the ACS labels type KS 4... or DM4...

Five versions are available covering the entire core cross section range from 0.22 mm² to 50 mm².

The sleeves come in different lengths.



Type	Order no.	Application range from - to inch	Core cross section * from - to mm ²	For label plate	No. of idents BK23/BK30	Pack qty.
Sleeve length 0.47" (12 mm)						
KTH 0/12	86221210	0.05-0.07	0.22-0.5	4/12; DM 4...	5/4	2,000
KTH 1/12	86221212	0.07-0.09	0.5-1.0	4/12; DM 4...	5/4	2,000
KTH 2/12	86221214	0.09-0.12	0.75-2.5	4/12; DM 4...	5/4	2,000
KTH 3/12	86221216	0.13-0.23	2.5-6.0	4/12; DM 4...	5/4	1,000
KTH 4/12	86221218	0.23-0.35	10.0-16.0	4/12; DM 4...	5/4	1,000
Sleeve length 0.70" (18 mm)						
KTH 0/18	86221810	0.05-0.07	0.22-0.5	KS 4/18; DM 4...	7/6	2,000
KTH 1/18	86221812	0.07-0.09	0.5-1.0	KS 4/18; DM 4...	7/6	2,000
KTH 1.5/18	86221813	0.08-0.10	0.5-0.75	KS 4/18; DM 4...	7/6	2,000
KTH 2/18	86221814	0.09-0.12	0.75-2.5	KS 4/18; DM 4...	7/6	2,000
KTH 3/18	86221816	0.13-0.23	2.5-6.0	KS 4/18; DM 4...	7/6	1,000
KTH 4/18	86221818	0.23-0.35	10.0-16.0	KS 4/18; DM 4...	7/6	1,000
KTH 5/18	86221820	0.35-0.55	25.0-50.0	KS 4/18; DM 4...	7/6	750
Sleeve length 0.90" (23 mm)						
KTH 0/23	86222310	0.05-0.07	0.22-0.5	KS 4/23; DM 4...	10/7	1,000
KTH 1/23	86222312	0.07-0.09	0.5-1.0	KS 4/23; DM 4...	10/7	2,000
KTH 2/23	86222314	0.09-0.12	0.75-2.5	KS 4/23; DM 4...	10/7	1,000
KTH 3/23	86222316	0.13-0.23	2.5-6.0	KS 4/23; DM 4...	10/7	1,000
KTH 4/23	86222318	0.23-0.35	10.0-16.0	KS 4/23; DM 4...	10/7	1,000



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Single wire, cable and conduit labeling



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



-40 to +320 °F / -40 to +160 °C



TPU



VO

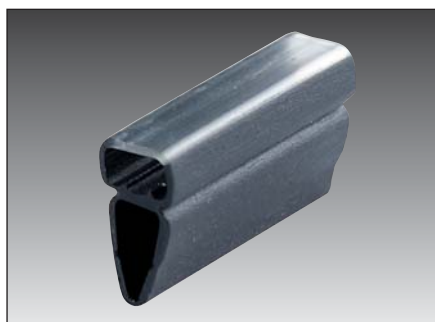


Special test conforming to EN 50155 and 61373 - VDE 0155 Part 106



Use in electrical systems and installations of all kinds

High-quality, halogen-free two-part label sleeve for extreme demands. The geometry of the sleeve causes a minimum increase in the diameter of the cable. The trapezoidal design makes for rapid and simple installation. It holds the idents (BK) and the ACS labels (KS 4... or DM4...) 11 versions are available covering the entire core cross section range from 0.14 mm² to 240 mm² ab. The sleeves come in different lengths.



Type	Order no.	Application range from - to inch	Core cross section * from - to mm ²	For label plate	No. of idents BK23/BK30	Pack qty.
Sleeve length 0.47" (12 mm)						
KTH/Q 0/12	86222808	0.03-0.05	0.14-0.25	KS 4/12; DM 4...	5/4	2,000
KTH/Q 1/12	86222810	0.05-0.09	0.25-0.5	KS 4/12; DM 4...	5/4	2,000
KTH/Q 1.5/12	86222811	0.06-0.12	0.25-1.5	KS 4/12; DM 4...	5/4	2,000
KTH/Q 2/12	86222812	0.12-0.17	0.5-4.0	KS 4/12; DM 4...	5/4	2,000
KTH/Q 3/12	86222814	0.14-0.24	2.5-6.0	KS 4/12; DM 4...	5/4	1,000
KTH/Q 4/12	86222816	0.18-0.29	6.0-16.0	KS 4/12; DM 4...	5/4	1,000
KTH/Q 5/12	86222818	0.31-0.47	16.0-35.0	KS 4/12; DM 4...	5/4	500
KTH/Q 6/12	86222820	0.39-0.55	35.0-50.0	KS 4/12; DM 4...	5/4	500
KTH/Q 6.5/12	86222821	0.47-0.70	50.0-95.0	KS 4/12; DM 4...	5/4	500
KTH/Q 7/12	86222822	0.70-0.94	95.0-150.0	KS 4/12; DM 4...	5/4	250
KTH/Q 8/12	86222824	0.90-1.18	150.0-240.0	KS 4/12; DM 4...	5/4	250
Sleeve length 0.70" (18 mm)						
KTH/Q 0/18	86223008	0.03-0.05	0.14-0.25	KS 4/18; DM 4...	7/6	2,000
KTH/Q 1/18	86223010	0.05-0.09	0.25-0.5	KS 4/18; DM 4...	7/6	2,000
KTH/Q 1.5/18	86223011	0.06-0.12	0.25-1.5	KS 4/18; DM 4...	7/6	2,000
KTH/Q 2/18	86223012	0.12-0.17	0.5-4.0	KS 4/18; DM 4...	7/6	2,000
KTH/Q 3/18	86223014	0.14-0.24	2.5-6.0	KS 4/18; DM 4...	7/6	1,000
KTH/Q 4/18	86223016	0.18-0.29	6.0-16.0	KS 4/18; DM 4...	7/6	1,000
KTH/Q 5/18	86223018	0.31-0.47	16.0-35.0	KS 4/18; DM 4...	7/6	500
KTH/Q 6/18	86223020	0.39-0.55	35.0-50.0	KS 4/18; DM 4...	7/6	500
KTH/Q 6.5/18	86223021	0.47-0.70	50.0-95.0	KS 4/18; DM 4...	7/6	500
KTH/Q 7/18	86223022	0.70-0.94	95.0-150.0	KS 4/18; DM 4...	7/6	250
KTH/Q 8/18	86223024	0.90-1.18	150.0-240.0	KS 4/18; DM 4...	7/6	250

Single wire, cable and conduit labeling



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



Type	Order no.	Application range from - to inch	Core cross section * from - to mm ²	For label plate	No. of idents BK23/BK30	Pack qty.
Sleeve length 0.90" (23 mm)						
KTH/Q 0/23	86223208	0.03-0.05	0.14-0.25	KS 4/23; DM 4...	10/7	2,000
KTH/Q 1/23	86223210	0.05-0.09	0.25-0.5	KS 4/23; DM 4...	10/7	2,000
KTH/Q 1.5/23	86223211	0.06-0.12	0.25-1.5	KS 4/23; DM 4...	10/7	2,000
KTH/Q 2/23	86223212	0.12-0.17	0.5-4.0	KS 4/23; DM 4...	10/7	2,000
KTH/Q 3/23	86223214	0.14-0.24	2.5-6.0	KS 4/23; DM 4...	10/7	1,000
KTH/Q 4/23	86223216	0.18-0.29	6.0-16.0	KS 4/23; DM 4...	10/7	1,000
KTH/Q 5/23	86223218	0.31-0.47	16.0-35.0	KS 4/23; DM 4...	10/7	500
KTH/Q 6/23	86223220	0.39-0.55	35.0-50.0	KS 4/23; DM 4...	10/7	500
KTH/Q 6.5/23	86223221	0.47-0.70	50.0-95.0	KS 4/23; DM 4...	10/7	500
KTH/Q 7/23	86223222	0.70-0.94	95.0-150.0	KS 4/23; DM 4...	10/7	250
KTH/Q 8/23	86223224	0.90-1.18	150.0-240.0	KS 4/23; DM 4...	10/7	250
Sleeve length 1.18" (30 mm)						
KTH/Q 0/30	86223408	0.03-0.05	0.14-0.25	KS 4/30; DM 4...	13/10	2,000
KTH/Q 1/30	86223410	0.05-0.09	0.25-0.5	KS 4/30; DM 4...	13/10	2,000
KTH/Q 1.5/30	86223411	0.06-0.12	0.25-1.5	KS 4/30; DM 4...	13/10	2,000
KTH/Q 2/30	86223412	0.12-0.17	0.5-4.0	KS 4/30; DM 4...	13/10	2,000
KTH/Q 3/30	86223414	0.14-0.24	2.5-6.0	KS 4/30; DM 4...	13/10	1,000
KTH/Q 4/30	86223416	0.18-0.29	6.0-16.0	KS 4/30; DM 4...	13/10	1,000
KTH/Q 5/30	86223418	0.31-0.47	16.0-35.0	KS 4/30; DM 4...	13/10	500
KTH/Q 6/30	86223420	0.39-0.55	35.0-50.0	KS 4/30; DM 4...	13/10	500
KTH/Q 6.5/30	86223421	0.47-0.70	50.0-95.0	KS 4/30; DM 4...	13/10	500
KTH/Q 7/30	86223422	0.70-0.94	95.0-150.0	KS 4/30; DM 4...	13/10	500
KTH/Q 8/30	86223424	0.90-1.18	150.0-240.0	KS 4/30; DM 4...	13/10	250
Sleeve length 1.18" (30 mm) released						
KTH/Q 1/30A	86223482	0.05-0.09	0.25-0.5	KS 4/30; DM 4...	13/10	2,000
KTH/Q 2/30A	86223484	0.12-0.17	0.5-4.0	KS 4/30; DM 4...	13/10	2,000
KTH/Q 3/30A	86223486	0.14-0.23	2.5-6.0	KS 4/30; DM 4...	13/10	1,000

Supplied by the meter in rolls on request

* Single wire, type H05V-K or H07V-K



Single wire, cable and conduit labeling

Label holder KM (standard holder)



-40 to +140 °F / -40 to +60 °C



PVC



V0



Standard label holder

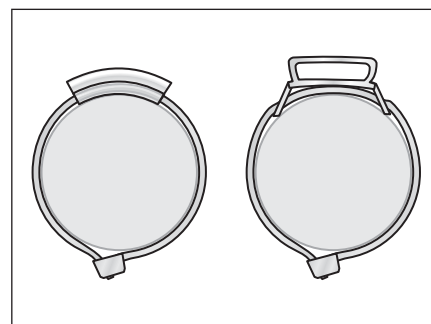
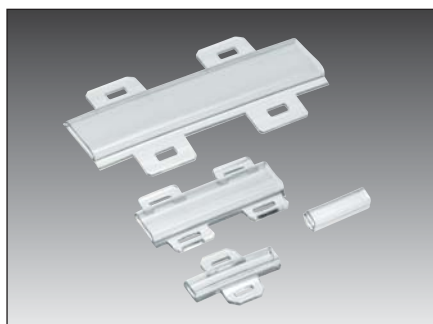


Use in electrical systems and installations of all kinds

Label holder for wire, cable and conduit labels.

It holds the idents (BK) and the ACS labels type KS 4..., KSO..., DM 4... or DM 9...

It is fastened by means of cable ties.



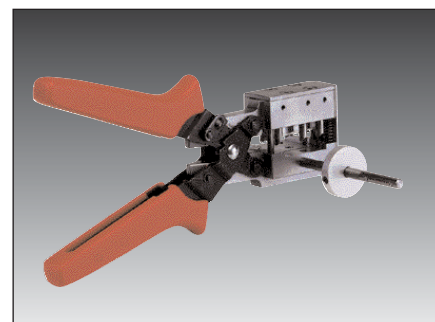
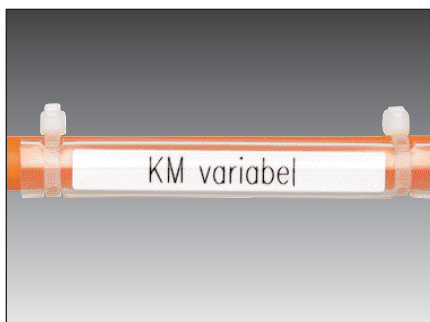
Crossways/lengthways labeling

Type	Order no.	Length inch/mm	For label plate	No. of idents BK23/BK30	Cable tie max. width inch	Recommended min. diameter inch	Pack qty.
Labeling across the cable/conduit							
KM 3	86321018	0.62/16	KS 4/12; DM 4...	6/5	0.19	0.19	2,000
Labeling lengthways along the cable/conduit							
Single-line							
KM 4/23	86321020	0.90/23	KS 4/x; DM 4...	10/7	0.19	0.19	1,000
KM 4/28	86321022	1.10/28	KS 4/x; DM 4...	12/9	0.19	0.19	1,000
KM 4/31	86321024	1.22/31	KS 4/x; DM 4...	13/10	0.19	0.19	1,000
KM 4/36	86321026	1.41/36	KS 4/x; DM 4...	15/12	0.19	0.19	1,000
KM 4/45	86321028	1.77/45	KS 4/x; DM 4...	19/15	0.19	0.19	1,000
Single-line and multi-line							
KM 9/20	86321040	0.78/20	KSO 20x9; DM 9...	—	0.19	0.39	1,000
KM 9/35	86321042	1.37/35	KSO 35x9; DM 9...	—	0.19	0.39	500
KM 15/27	86321056	1.08/27	KS 15/27; DM 15...	—	0.19	0.55	500
KM 15/49	86321058	1.92/49	KS 15/49; DM 15...	—	0.19	0.55	250
KM 15/67	86321060	2.63/67	KS 15/67; DM 15...	—	0.19	0.55	125
Pre-assembled label holders							
KKM 4/23	86321050	0.90/23	KS 4/x; DM 4...	10/7	0.19	0.19	1,000
KM 4/23 fitted with cable tie KB 55							
KKM 9/20	86321052	0.78/20	KSO 20x9; DM 9...	—	0.19	0.39	1,000
KM 9/20 fitted with cable tie KB 55							
For correct size of cable tie KB see accessories							

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 -40 to +140 °F / -40 to +60 °C

Use in electrical systems and installations of all kinds



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Single wire, cable and conduit labeling

Label holder KMH (halogen-free)



-40 to +140 °F / -40 to +60 °C



EVA



HB

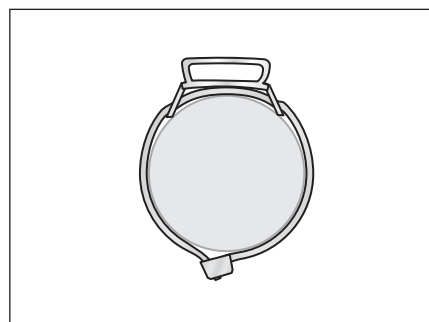
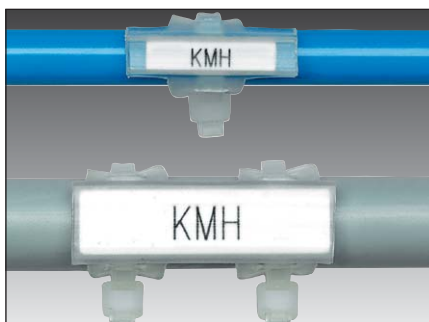
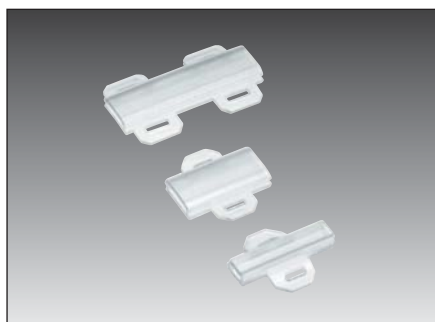


Halogen-free



Use in electrical systems and installations of all kinds

Halogen-free label holder for wire, cable and conduit labels.
It holds the idents (BK) and the ACS labels type KS 4..., KSO..., DM 4... or DM 9...
It is fastened by means of cable ties.

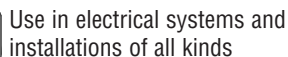
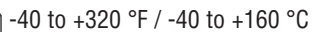


Lengthways labeling

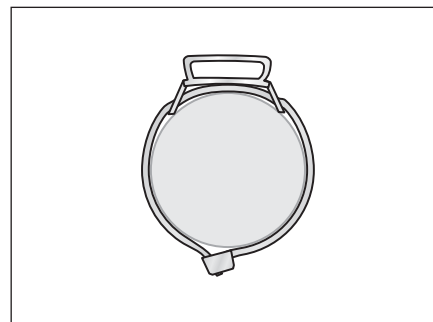
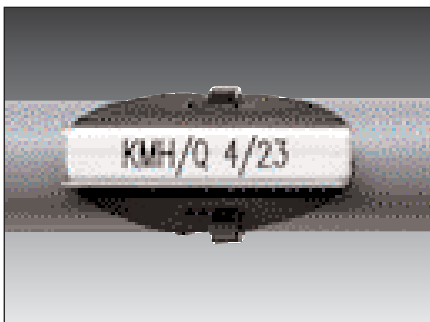
Type	Order no.	Length inch/mm	For label plate	No. of idents BK23/BK30	Cable tie max. width inch	Recommended min. diameter inch	Pack qty.
Labeling lengthways along the cable/conduit							
Single-line							
KMH 4/23	86221010	0.90/23	KS 4/x; DM 4...	10/7	0.19	0.19	1,000
Single-line and multi-line							
KMH 9/20	86221012	0.78/20	KSO 20x9; DM 9...	—	0.19	0.39	1,000
KMH 9/35	86221016	1.37/35	KSO 35x9; DM 9...	—	0.19	0.39	500
Pre-assembled label holders							
KKMH 4/23	86221050	0.90/23	KS 4/x; DM 4...	10/7	0.19	0.19	1,000
KKMH 4/23 fitted with cable tie KB 55							

For correct size of cable tie see accessories

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It matches label sleeve KTH/Q.



Lengthways labeling

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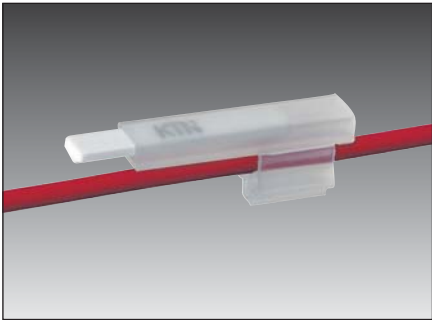
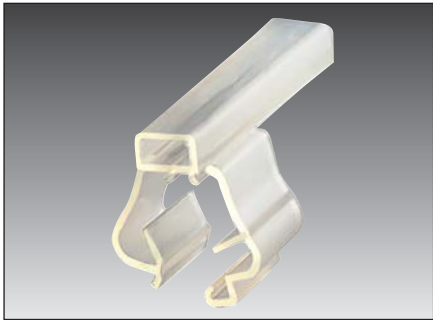


Single wire, cable and conduit labeling

Label plate KTN (halogen-free)

- 40 to +212 °F / -40 to +100 °C
- TPE
- HB
- Retrofitting
- Use in electrical systems and installations of all kinds

Halogen-free label holder for subsequent labeling of wires and cables. It holds the idents (BK) and the ACS labels type KS 4..., DM4... The holder is fitted manually. Five versions are available covering the entire core cross section range from 0.25 mm² to 10 mm².



Type	Order no.	Application range from - to inch	Core cross section * from - to mm²	For label plate	No. of idents BK23/BK30	Pack qty.
Sleeve length 0.90" (23 mm)						
KTN 1/23	86242310	0.06-0.11	0.25 - 1.5	KS 4/23; DM 4...	10/7	1,000
KTN 2/23	86242312	0.09-0.13	0.75 - 2.5	KS 4/23; DM 4...	10/7	1,000
KTN 3/23	86242314	0.12-0.18	2.5 - 4.0	KS 4/23; DM 4...	10/7	1,000
KTN 4/23	86242316	0.16-0.22	4.0 - 6.0	KS 4/23; DM 4...	10/7	1,000
KTN 5/23	86242318	0.19-0.27	6.0 - 10.0	KS 4/23; DM 4...	10/7	1,000

* Single wire, type H05V-K or H07V-K

Single wire, cable and conduit labeling



Labels BK



-22 to +176 °F / -30 to +80 °C



PVC



V0



Ident strip holder AK is recommended for mounting.

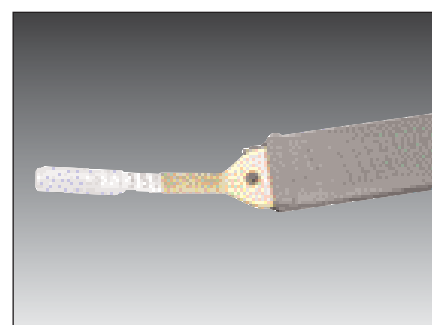
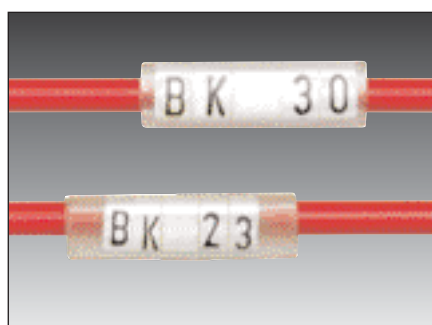
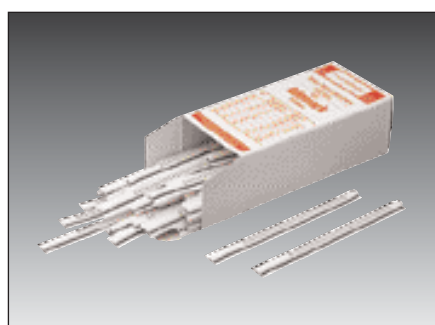


Assembly aid MZ available in various sizes.

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

BK 23: Label width 0.09" (2.3 mm);
Font width 0.06" (1.6 mm); font height 0.13" (3.5 mm);
black lettering

BK 30: Label width 0.11" (3.0 mm);
Font width 0.07" (2.0 mm); font height 0.13" (3.5 mm);
black lettering



Type	BK 23 White holder Order no.	BK 23 Yellow holder Order no.	BK 30 White holder Order no.	BK 30 Yellow holder Order no.	Pack qty.
Upper case letters					
A	86131811	86132012	86131211	86131411	1,000
B	86131812	86132014	86131212	86131412	1,000
C	86131813	86132016	86131213	86131413	1,000
D	86131814	86132018	86131214	86131414	1,000
E	86131815	86132020	86131215	86131415	1,000
F	86131816	86132022	86131216	86131416	1,000
G	86131817	86132024	86131217	86131417	1,000
H	86131818	86132026	86131218	86131418	1,000
I	86131819	86132028	86131219	86131419	1,000
J	86131820	86132030	86131220	86131420	1,000
K	86131821	86132032	86131221	86131421	1,000
L	86131822	86132034	86131222	86131422	1,000
M	86131823	86132036	86131223	86131423	1,000
N	86131824	86132038	86131224	86131424	1,000
O	86131825	86132040	86131225	86131425	1,000
P	86131826	86132042	86131226	86131426	1,000
Q	86131827	86132044	86131227	86131427	1,000
R	86131828	86132046	86131228	86131428	1,000
S	86131829	86132048	86131229	86131429	1,000
T	86131830	86132050	86131230	86131430	1,000
U	86131831	86132052	86131231	86131431	1,000
V	86131832	86132054	86131232	86131432	1,000
W	86131833	86132056	86131233	86131433	1,000
X	86131834	86132058	86131234	86131434	1,000
Y	86131835	86132060	86131235	86131435	1,000
Z	86131836	86132062	86131236	86131436	1,000

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Single wire, cable and conduit labeling



Label plate KS (single-line)



-40 to +284 °F / -40 to +140 °C



PC



VO



Single-line inscription



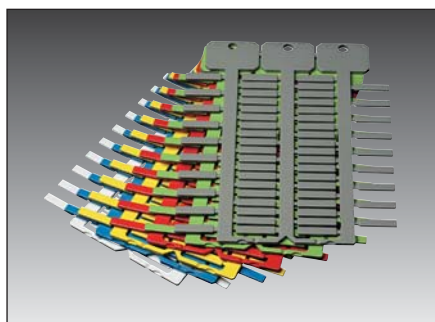
Use in electrical systems and installations of all kinds

High-quality, halogen-free, universal label plate.

The label plate KS 4/x is used with sleeves KT; KTH; KTHQ or holders KM; KMH; KMHQ or KTN on wires, cables, lines or conduits.

The label plate is available in various lengths and colors.

The large printable area at the top allows room for individual project reference, dispensing with the need to organize additional systems.



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
Label length 0.47" (12 mm)										
KS 4/12	86361026	White	9016	0.15x0.47	0.15x0.47	6/1	3	57	6	1,026
KS 4/12	86361018	Yellow	1018	0.15x0.47	0.15x0.47	6/1	3	57	7	1,026
KS 4/12	86361020	Red	2012	0.15x0.47	0.15x0.47	6/1	3	57	8	1,026
KS 4/12	86361022	Green	6018	0.15x0.47	0.15x0.47	6/1	3	57	9	1,026
KS 4/12	86361024	Blue	5012	0.15x0.47	0.15x0.47	6/1	3	57	10	1,026
Label length 0.70" (18 mm)										
KS 4/18	86361036	White	9016	0.15x0.70	0.15x0.70	10/1	3	57	1	1,026
KS 4/18	86361028	Yellow	1018	0.15x0.70	0.15x0.70	10/1	3	57	2	1,026
KS 4/18	86361030	Red	2012	0.15x0.70	0.15x0.70	10/1	3	57	3	1,026
KS 4/18	86361032	Green	6018	0.15x0.70	0.15x0.70	10/1	3	57	4	1,026
KS 4/18	86361034	Blue	5012	0.15x0.70	0.15x0.70	10/1	3	57	5	1,026
KS 4/18	86361228	Grey	7038	0.15x0.70	0.15x0.70	10/1	3	57	1G	1,026
KS 4/18	86361033	Orange	2011	0.15x0.70	0.15x0.70	10/1	3	57	10	1,026
KS 4/18	86361035	Brown	8003	0.15x0.70	0.15x0.70	10/1	3	57	1B	1,026
KS 4/18	86361029	Purple	4005	0.15x0.70	0.15x0.70	10/1	3	57	1L	1,026
KS 4/18	86361031	Pink	4010	0.15x0.70	0.15x0.70	10/1	3	57	1R	1,026
Label length 0.90" (23 mm)										
KS 4/23	86361038	White	9016	0.15x0.90	0.15x0.90	12/1	3	51	11	1,020
KS 4/23	86361039	Yellow	1018	0.15x0.90	0.15x0.90	12/1	3	51	11G	1,020
For matching base plates see plotter system accessories										

Single wire, cable and conduit labeling



Label plate KS (single-line)



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
Label length 1.18" (30 mm)										
KS 4/30	86361042	White	9016	0.15x1.18	0.15x1.18	16/1	1	34	15	1,020
KS 4/30	86361246	Yellow	1018	0.15x1.18	0.15x1.18	16/1	1	34	16	1,020
KS 4/30	86361240	Red	2012	0.15x1.18	0.15x1.18	16/1	1	34	17	1,020
KS 4/30	86361244	Green	6018	0.15x1.18	0.15x1.18	16/1	1	34	18	1,020
KS 4/30	86361242	Blue	5012	0.15x1.18	0.15x1.18	16/1	1	34	19	1,020
KS 4/30 PE	86361043	Green/yellow	—	0.15x1.18	0.15x1.18	16/1	1	34	15P	1,020

Suitable for ferrules

(AF = flat base)

Label length 0.47" (12 mm)

KS 4/12-AF	86361027	White	9016	0.15x0.47	0.15x0.47	6/1	3	57	5AF	1,026
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Label length 0.70" (18 mm)

KS 4/18-AF	86361037	White	9016	0.15x0.70	0.15x0.70	10/1	3	57	6AF	1,026
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Ferrules on request

For matching base plates see plotter system accessories



Single wire, cable and conduit labeling



Label plate KS (single-line/divisible)



-40 to +284 °F / -40 to +140 °C



PC



VO



Single-line inscription



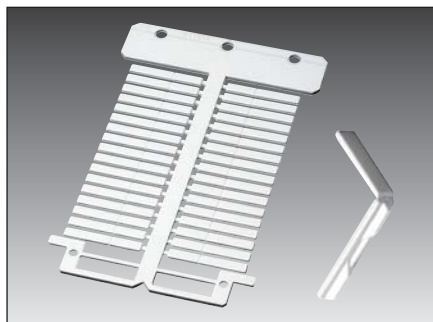
Use in electrical systems and installations of all kinds

High-quality, halogen-free, divisible label plate.

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

The label plate is available in various colors.

The divisible part of the KS 4/18-12 is used as a record of the necessary connection data. The label plate KS 4/30-70 can be cut to length in steps of 0.39" (10 mm) if required for labels longer than 1.18" (30 mm).



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
Label length 0.70" (18 mm)										
KS 4/18-12	86361048	White	9016	Part length 0.15x0.70	0.15x0.70	10/1	1	34	15A	1,020
				0.15x0.47	0.15x0.47	6/1				
KS 4/18-12	86361050	Yellow	1018	Part length 0.15x0.70	0.15x0.70	10/1	1	34	16A	1,020
				0.15x0.47	0.15x0.47	6/1				
KS 4/18-12	86361054	Green	6018	Part length 0.15x0.70	0.15x0.70	10/1	1	34	18A	1,020
				0.15x0.47	0.15x0.47	6/1				
KS 4/18-12	86361052	Red	2012	Part length 0.15x0.70	0.15x0.70	10/1	1	34	17A	1,020
				0.15x0.47	0.15x0.47	6/1				
Label length 1.18/1.57/1.96/2.36/2.75" (30/40/50/60/70 mm)										
KS 4/30-70	86361070	White	9016	0.15x2.75	0.15x2.75	38/1	1	18	1U	324
				Part length 0.15x2.36	0.15x2.36	33/1			1U1	
				0.15x0.39	0.15x0.39	5/1				
				Part length 0.15x1.96	0.15x1.96	27/1			1U2	
				0.15x0.78	0.15x0.78	11/1				
				Part length 0.15x1.57	0.15x1.57	22/1			1U3	
				0.15x1.18	0.15x1.18	16/1				
				Part length 0.15x1.18	0.15x1.18	16/1			1U4	
				0.15x1.57	0.15x1.57	22/1				

For matching base plates see plotter system accessories

Single wire, cable and conduit labeling



Label plate KS (multi-line)



-40 to +284 °F / -40 to +140 °C



PC



V0



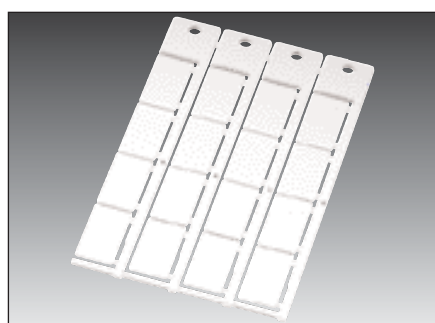
Single-line and multi-line inscription



Use in electrical systems and installations of all kinds

High-quality, halogen-free, universal label plate.

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



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
Label length 0.66" (17 mm)										
KS 15/17	86361040	White	9016	0.59x0.66	0.59x0.66	9/3	4	24	84	720
Label length 1.06" (27 mm)										
KS 15/27	86361010	White	9016	0.59x1.06	0.59x1.06	15/3	4	16	85	480
KS 15/27	86361012	Yellow	1018	0.59x1.06	0.59x1.06	15/3	4	16	85G	480
Label length 1.92" (49 mm)										
KS 15/49	86361014	White	9016	0.59x1.92	0.59x1.92	27/3	4	8	86	240
KS 15/49	86361015	Yellow	1018	0.59x1.92	0.59x1.92	27/3	4	8	86G	240
Label length 2.63" (67 mm)										
KS 15/67	86361016	White	9016	0.59x2.63	0.59x2.63	37/3	4	4	87	120
KS 15/67	86361017	Yellow	1018	0.59x2.63	0.59x2.63	37/3	4	4	87G	120

For matching base plates see plotter system accessories



Single wire, cable and conduit labeling



Label plate KSO



-40 to +284 °F / -40 to +140 °C



PC



VO



Single-line and multi-line inscription



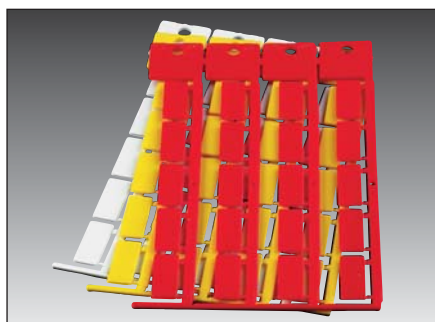
Use in electrical systems and installations of all kinds

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

The label plate KSO is used with sleeves KT... or holders KM, KMH on cables, lines or conduits.

The label plate is available in various lengths and colors.

The large printable area at the top allows room for individual project reference, dispensing with the need to organize additional systems.



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
Label length 0.43" (11 mm)										
KSO 11x9	86421024	White	9016	0.43x0.35	0.43x0.35	6/2	4	44	60	1,400
Label length 0.59" (15 mm)										
KSO 15x9	86421026	White	9016	0.59x0.35	0.59x0.35	8/2	4	44	62	1,400
Label length 0.78" (20 mm)										
KSO 20x9	86421028	White	9016	0.78x0.35	0.78x0.35	11/2	4	20	64	680
KSO 20x9	86421080	Yellow	1018	0.78x0.35	0.78x0.35	11/2	4	20	65G	680
KSO 20x9	86421030	Red	2012	0.78x0.35	0.78x0.35	11/2	4	20	65R	680
Label length 1.37" (35 mm)										
KSO 35x9	86421032	White	9016	1.37x0.35	1.37x0.35	19/2	4	12	69	360
KSO 35x9	86421031	Yellow	1018	1.37x0.35	1.37x0.35	19/2	4	12	69G	360
KSO 35x9	86421033	Red	2012	1.37x0.35	1.37x0.35	19/2	4	12	69R	360
Label length 2.75" (70 mm)										
♣ KSO 70x9	86421082	White	9016	2.75x0.35	2.75x0.35	38/2	1	11	280	330

For matching base plates see plotter system accessories

Single wire, cable and conduit labeling



Label plate KDE



-40 to +284 °F / -40 to +140 °C



PC



V0



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

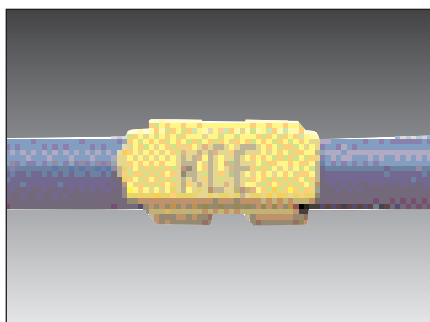
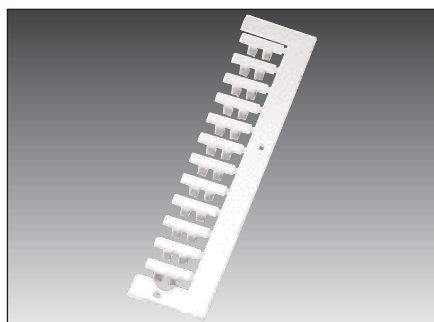


Use in electrical systems and installations of all kinds

ACS label plates of the KDE type are pushed directly onto single wires. The transparent KNDT cover provides additional mechanical protection for the label.

The inscription can be changed at a later date by unclipping the KNDW holder without removing the wire.

The KNDW holder and KNDT cover may only be used in conjunction with KDE 1 and KDE 2 label plates.



Type	Order no.	Color	Application range from - to inch	Core cross section from - to mm ²	*Label size inch	Printable area inch	No. of characters/ lines	No. of stems	No. per frame	Software type	Pack qty.
KDE 11	86381220	White	0.06-0.12	0,25-1,0	12x4	12x4	6/1	1	12	150	1,080
KDE 11	83381222	Yellow	0.06-0.12	0,25-1,0	12x4	12x4	6/1	1	12	151	1,080
KDE 21	86381230	White	0.07-0.16	1,0-2,5	12x4	12x4	6/1	1	12	152	1,080
KDE 21	86381232	Yellow	0.07-0.16	1,0-2,5	12x4	12x4	6/1	1	12	153	1,080
KDE 1	86381210	White	0.06-0.12	0,25-1,0	16x4	16x4	8/1	1	12	74	1,080
KDE 2	86381212	White	0.07-0.16	1,0-2,5	16x4	16x4	8/1	1	12	75	1,080
KNDT*	86381214	Transparent	—	—	16x4	—	—	1	12	—	760
KNDW	86381216	White	—	—	16x4	16x4	8/1	1	12	76	760
Assembly tool for KNDT											
MW 03	86391012	—									1

* not in connection with KNDW

For matching base plates see plotter system accessories



Single wire, cable and conduit labeling

Label plate KSE



-40 to +284 °F / -40 to +140 °C

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



PC



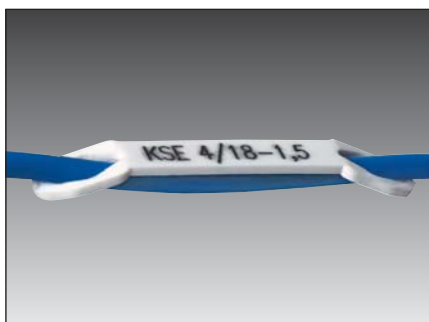
V0



Single-line inscription



Use in electrical systems and installations of all kinds



Type	Order no.	Color	Application range from - to inch	Core cross section* from - to mm ²	Label size inch	Printable area inch	No. of characters/ lines	No. of stems	No. per frame	Software type	Pack qty.
KSE 4/10 - 0.75	86381010	White	0,05-0.09	0.25-0.75	0.15x0.39	0.15x0.39	5/1	3	60	92	1,500
KSE 4/10 - 1.5	86381012	White	0.09-0.11	0.75-1.5	0.15x0.39	0.15x0.39	5/1	3	60	93	1,500
KSE 4/18 - 1.5	86381014	White	0.09-0.11	0.75-1.5	0.15x0.70	0.15x0.70	10/1	2	40	94	1,000

For matching base plates see plotter system accessories

* Single wire, type H05V-K or H07V-K



Single wire, cable and conduit labeling



Label plate KSN



-40 to +284 °F / -40 to +140 °C



PC



V0



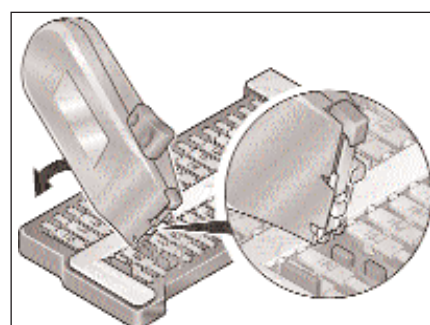
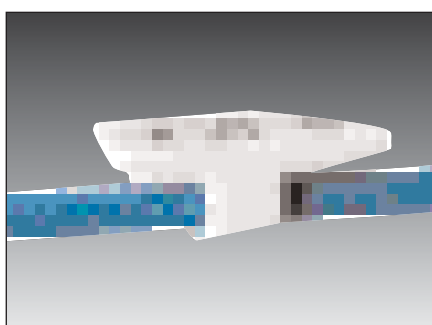
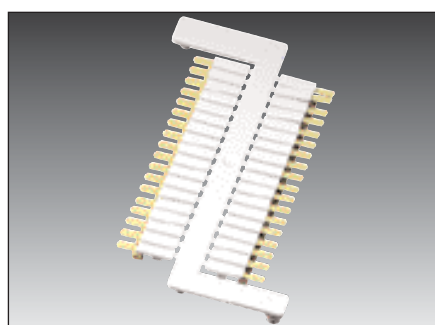
Single-line inscription. Retrofitting.



Use in electrical systems and installations of all kinds

High-quality, halogen-free label plate 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.



Type	Order no.	Color	Application range from - to inch	Core cross section * from - to mm ²	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
KSN-A	86381410	White	0.08-0.09	0.5-0.75	14x5	14x5	7/1	1	36	12	360
KSN-B	86381412	White	0.10-0.11	1-1.5	14x5	14x5	7/1	1	36	13	360
KSN-C	86381414	White	0.11-0.14	2.5	14x5	14x5	7/1	1	36	14	360
KSN sample set	86391010	—									1
consisting of:											
1 KSN frame, 1 MW 1 assembly tool and 1 MPKSN mounting plate											
Accessories											
MW 1	86381610	Assembly tool									1
MPKSN	86381612	Mounting plate									1

For matching base plates see plotter system accessories

* Single wire, type H05V-K or H07V-K

Single wire, cable and conduit labeling



Label plate KBT



-40 to +284 °F / -40 to +140 °C



Polyester film



V0



Single-line and multi-line inscription



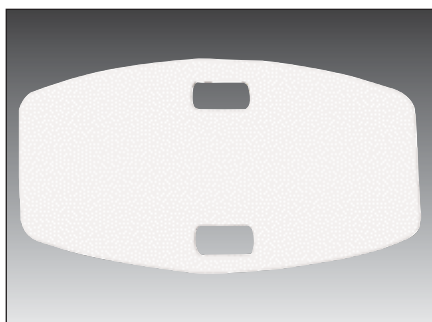
Use in electrical systems and installations of all kinds

High-quality polyester labels for single-line and multi-line inscription. The front and back of the film is designed to accommodate the various printing techniques.

For label detection in continuous thermal transfer printing black marks are punched in the center and on the left-hand side.

For laser or plotter printing the fanfold sheets can be separated at the fold (sheet size 10.62x4.33" [270 x 110 mm]).

The KBT labels are mounted directly with cable ties.



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	Cable tie max. width inch	No. of stems	No. per sheet	Software type	Pack qty.
▶ KBT 20x20	86562710	White	9016	0.78x0.78	0.78x0.39	12/2	0.11	5	60*	TT5	1,080
▶ KBT 35x20	86562712	White	9016	1.37x0.78	1.37x0.39	21/2	0.11	2	24*	TT6	1,080

* Applies to fanfold sheets

For correct size of cable tie KB see accessories

For matching base plates see plotter system accessories



Single wire, cable and conduit labeling

Label plate ESL



-40 to +302 °F / -40 to +150 °C



Polyester film



V0



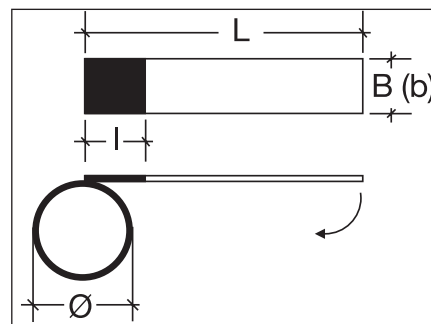
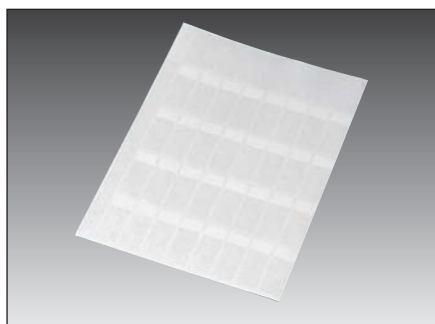
Single-line and multi-line inscription.
A4 sheets.



Use in electrical systems and
installations of all kinds

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

The transparent extension strip sticks over the printable area and keeps the inscription clean and intact. The grid system allows direct removal of each label.



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per sheet	Software type	Pack
ESL 20x12R	86562450	White	9016	0.78x0.47	0.27x0.47	7/2	13	156	116	10 sh.
ESL 35x17R	86562452	White	9016	1.37x0.66	0.35x0.66	10/2	10	70	114	20 sh.
ESL 56x21R	86562454	White	9016	2.20x0.82	0.51x0.82	13/4	8	32	113	10 sh.
ESL 93x31R	86562456	White	9016	3.66x1.22	0.98x1.22	19/7	5	15	117	10 sh.
ESL 140x47R	86562458	White	9016	5.51x1.85	1.18x1.84	29/9	4	8	115	10 sh.



Extension strip

VS 200/10	86561412	Transparent	—	7.87x0.39	—					200
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Calculation of the max. range of application

$$\varnothing = (L-I)/3.14$$

Accessories:

Label holder ETH

86562210	1
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Please note: Labels processed at min. 10 °C



For matching base plates see plotter system accessories

Single wire, cable and conduit labeling



Label plate DM



-4 to +176 °F / -20 to +80 °C



Acrylate polymer



HB



Single-line and multi-line inscription



Use in electrical systems and installations of all kinds

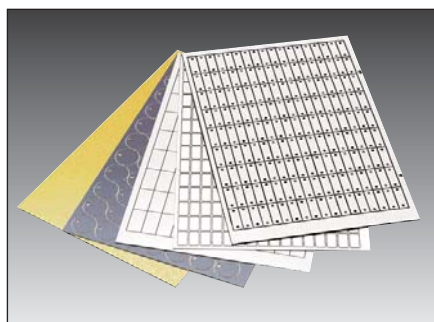
Two-ply plastic material for inscribing or engraving.

Articles bearing the DM designation have exact locating holes for plotters.

The mat size is 7.87 x 11.81" (200 x 300 mm).

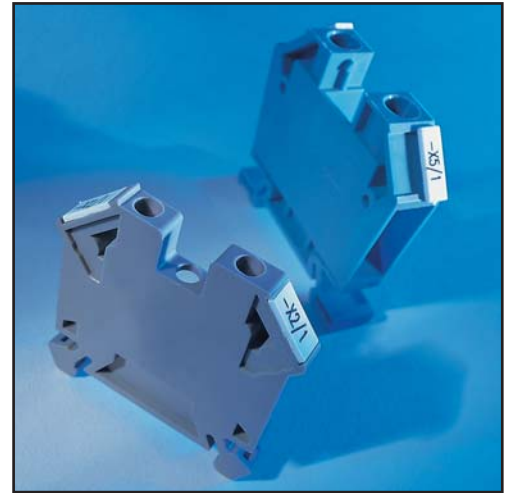
Further dimensions and colors on request.

Please ask for our special carbide tools/engraving materials catalog.



Type	Order no.	Base color / fill color	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per mat	Software type labels	Pack qty.
Right-angled corners, adhesive film, thickness 0.05" (1.5 mm)									
DM 4x18	86505150	White/black	0.15x0.70	0.14x0.70	10/1	64	640	72	1
WS/SW HF MS1.5									
DM 28x4	86505187	White/black	1.10x0.15	1.09x0.14	16/1	10	430	73	1
WS/SW HF MS1.5									
Right-angled corners, adhesive film, thickness 0.03" (0.8 mm)									
DM 9x20	86505336	White/black	0.35x0.78	0.34x0.77	12/2	30	270	336	1
WS/SW HF									
DM 8.9x35	86505367	White/black	0.35x1.37	0.33x1.37	20/2	31	155	R30	1
WS/SW HF									
Rounded corners, adhesive film, thickness 0.03" (0.8 mm), 4x oblong hole 2x0.15" (4 mm)									
DM 12x60	86505428	White/black	0.47x2.36	0.45x1.96	34/3	21	63	428	1
WS/SW R HF 4x(2x4)									
Round, adhesive film, thickness 0.03" (0.8 mm), 1x0.11" (3.0 mm) hole									
DM circular blanks	8601316000	White/black	0.98	0.78x0.59	12/3	11	77	422	1
WS/SW HF D=25 mm									
Round, adhesive film, thickness 0.05" (1.5 mm), 1x0.11" (3.0 mm) hole									
DM circular blanks	8601316001	White/black	0.98	0.78x0.59	12/3	11	77	424	1
WS/SW HF D=25 mm MS 1.5									
For matching base plates see plotter system accessories									

Age Group	Male (%)	Female (%)
18-24	65	35
25-34	60	40
35-44	55	45





Terminal cross reference chart

Terminal block labeling

Terminal cross reference chart

Luetze

EURO terminal block (6 mm wide)
Terminal block

[illegible]

Murrelektronik

KM 4 (90931)
KM 5 (90900)
ME terminal block 44212

[illegible]

Phoenix

ASI 10 SL DI 4/4
 ASI 10 SL DIO 4/2/2
 ASI 10 SL DIO 8/4/4
 ASI 10 SL DO 4/4
 DFK ...
 DFK 4
 DFK 4 - PE
 DFK 4 - SI
 DIK 1.5
 DIK 1.5 - LA (RD)
 DIKD 1.5
 DIKD 1.5 - LA
 DIKD 1.5 - PV
 DLK 2.5 - PE
 DLKB 2.5 PE
 DOK 1.5 - 2D
 DOK 1.5 LA
 DOK 1.5 TG
 DOKD 1.5 - TG
 E - UK
 GBS 5-UK/B
 GTF 76/230
 IBIU ...diverse
 Interbus Mir Box SAB 24
 K4 - SP
 MBK 3/ E - Z
 MBK 3/ E - Z - PE
 MBK 6/E
 MBKKB 2.5
 MBKKB 2.5 - DIO
 MBKKB 2.5 - PV
 MBKKB 2.5 + V
 MBT 2.5
 MBT 2.5 PE
 MSLKG 6
 MT 1.5
 MT 1.5 PE
 MT 1.5 QUATTRO
 MT 1.5 QUATTRO -PE
 MT 1.5 TWIN
 MT 1.5 TWIN - PE
 MTK - LOE
 MTK - P/P
 MTK - TP
 MTKD:...
 MTTB 1.5
 MZB 1.5
 MZDB 1.5
 MZFK 1.5
 MZFKK 1.5
 MZFKKB 1.5
 OTTA 2.5
 OTTA 2.5 PE
 OTTA 6

[illegible]



[illegible]



Terminal block labeling

Terminal cross reference chart

Phoenix	KPX 4/10	KPX 4/10-4	KPX 5/5-5 ZS	KPX 5/10-5	KPX 5/10-5 ZS	KPX 5/15-5	KPX 6/5-6 ZS	KPX 6/10	KPX 6/10-6	KPX 6/15	KPX 6/15-6	KPX 12/5-12 ZS	KSF 20x3							
URTK - BEN								X		X										
URTK/S								X		X										
URTK/S - BEN								X		X										
URTK/SS								X	X	X	X									
URTKD/SP								X		X										
USED 16								X		X										
USED 27								X		X										
USEN 14								X		X										
USEN 18								X		X										
USK/SGSK								X		X										
USK 4 FSR...								X	X	X	X									
USLKG 2.5								X	X	X	X									
USLKG 2.5 - N				X		X														
USLKG 3				X		X														
USLKG 4								X	X	X	X									
USLKG 5								X	X	X	X									
USLKG 10 (N)								X		X										
USLKG 16								X		X										
USLKG 16 N								X		X										
USLKG 35								X		X										
USLKG 50								X		X										
USLKG 95								X		X										
UT 4								X		X										
UT 4 BU								X		X										
UT 4 YE								X		X										
UT 4-MTD BU								X		X										
UT 4-MTD-PE								X		X										
UTK 35								X		X										
UXKK 4								X	X	X	X									
VBSN 4 FS								X												
VBST 4 FS/FS								X												
VIOK 1.5								X	X											
VIOK 1.5-2D								X	X											
VIOK 1.5-3D/PE								X	X											
VIOK 1.5-D/TG/D/PE							X	X	X											
VIOK 1.5-LA								X	X											
ZDIK 1.5			X																	
ZDMTK 2.5							X													
ZFDK 2.5				X																
ZFDK - PE				X																
ZFK 1.5	X	X																		
ZFK 2.5 - PE				X																
ZFK 2.5 - PE/L/N								X												
ZFK 2.5 - TWIN				X																
ZFK 2.5 - TWIN - PE				X																
ZFK 4								X												
ZFK 4 - PE								X												
ZFK 4 - TG								X												
ZFK 6								X												
ZFK 16								X												
ZFK 1 4								X												
ZFKK 2.5 (-MT)				X																
ZFKN 4								X												
ZVIOK 1.5			X		X															
ZVIOK 1.5 - 2D			X		X															
ZVIOK 1.5 - D/TG/D/PE			X		X															
ZVIOK 1.5 - LA			X		X															
ZVIOK 1.5/1.5 LA			X		X															
ZVKK 4 FS			X					X		X										

Terminal block labeling

Terminal cross reference chart

Siemens

[illegible]

Wago

2002-1201 Top-Job					X	X
2002-1401 Top-Job					X	X
2004-1201 Top-Job					X	X
249-117					X	X
264-711					X	
270-570					X	
279-104			X			
279-105			X			
279-106			X			
279-107			X			
279-108			X			
279-109			X			
279-110			X			
279-111			X			
279-112			X			
279-113			X			
279-114			X			
279-115			X			
279-116			X			
279-117			X			
279-118			X			
279-119			X			
279-120			X			
279-121			X			
279-122			X			
279-123			X			
279-124			X			
279-125			X			
279-126			X			
279-127			X			
279-128			X			
279-129			X			
279-130			X			
279-131			X			
279-132			X			
280-520					X	X
280-560			X			X
280-601			X			X
280-607			X			X
280-612			X			X
280-622			X			X
280-626			X			X
280-641			X			X
280-646			X			X
280-649			X			X
280-650			X			X
280-651			X			X
280-653			X			X
280-654			X			X
280-656			X			X
280-671			X			X
280-672			X			X
280-676			X			X
280-681			X			X



Terminal block labeling

Terminal cross reference chart

Wago	KMR 5/7,5-5	KMR 5/10	KMR 6/10	KPX 4/10	KPX 5/10-5	KPX 6/10	KWI 5/8,6-5	KWI 6/8,2-6	WGO 5/5-5	WGO 5/10-5	WGO 5/10-5F	WGO 12/7							
280-683					X						X								
280-684					X						X								
280-685					X						X								
280-687					X						X								
280-695					X						X								
280-830					X						X								
280-831					X						X								
280-832					X						X								
280-833					X						X								
280-834					X						X								
280-835					X						X								
280-836					X						X								
280-837					X						X								
280-869					X						X								
280-870					X						X								
280-871					X						X								
280-874					X						X								
280-875					X						X								
280-876					X						X								
280-878					X						X								
280-880					X						X								
280-881					X						X								
280-882					X						X								
280-883					X						X								
280-884					X						X								
280-885					X						X								
280-901					X					X	X								
280-902					X						X								
280-903					X						X								
280-904					X						X								
280-905					X						X								
280-906					X						X								
280-907					X						X								
280-912					X						X								
280-946					X						X								
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281-664						X													
281-666						X													
281-668						X													
281-678						X													
281-679						X													
281-681						X													
281-683						X													
281-684						X													
281-685						X													
281-686						X													
281-687						X													
281-901						X													
281-902						X													
281-903						X													
281-904						X													
281-905						X													
281-906						X													
281-907						X													
281-912						X													
282-601						X													
282-604						X													
282-607						X													
282-681						X													
282-682						X													
282-684						X													
282-687						X													
282-901						X													
282-902						X													
282-904						X													
282-907						X													

Terminal block labeling

Terminal cross reference chart

Wago	KMR 5/7.5-5	KMR 5/10	KMR 6/10	KPX 4/10	KPX 5/10-5	KPX 6/10	KWI 5/8.6-5	KWI 6/8.2-6	WGO 5/5-5	WGO 5/10-5	WGO 5/10-5F	WGO 12/7							
283-602						X													
283-604						X													
283-607						X													
283-609						X													
283-671						X													
283-672						X													
283-674						X													
283-677						X													
283-901						X													
283-902						X													
283-904						X													
283-907						X													
284-601						X													
284-604						X													
284-607						X													
284-681						X													
284-682						X													
284-684						X													
284-687						X													
284-901						X													
284-902						X													
284-904						X													
284-907						X													
285-195										X	X								
285-601						X													
285-605						X													
290-681										X	X								
750-xxx	X	X	X						X		X	X							
769-237									X										
775-641							X				X								
777-641							X	X			X								
780-601							X			X	X								
781-601							X	X			X								
782-601							X	X			X								
782-604							X	X			X								
782-607							X	X			X								
783-601							X	X			X								
783-604							X	X			X								
783-607							X	X		X	X								
784-601							X	X			X								
785-601							X	X		X									
870-501		X									X								
870-507		X																	
870-531									X										
870-538									X										
870-551		X																	
870-567											X								
870-831											X								
870-901											X								
880-901		X																	
X-Com System base terminal block											X								



Weidmueller

BZT ZVL 1.5

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Terminal block labeling

Terminal cross reference chart

Weidmueller	KMR 3.5/7.5-3.5	KMR 5/7.5-5	KMR 5/10	KMR 5/10 FA	KMR 5/10-5	KMR 5/15	KMR 5/15-5	KMR 6/10	KMR 6/10-6	KMR 6/15	KMR 6/15-6	KSS 20/9							
ZDL0 2.5/1.5 V				X															
ZDU 1.5	X																		
ZDU 2.5 2.5/10		X	X	X	X	X	X												
ZDU 2.5/2x2AN				X															
ZDU 2.5/2x2AN (/E) BL				X															
ZDU 2.5/2x2AN/10				X															
ZDU 2.5/2x2AN/D				X															
ZDU 2.5/2x2AN/E				X															
ZDU 2.5/2x2AN/LD				X															
ZDU 2.5/3AN		X	X	X	X	X	X												
ZDU 2.5/3AN (/E) BL				X															
ZDU 2.5/3AN/10				X															
ZDU 2.5/3AN/E				X															
ZDU 2.5/4AN		X	X	X	X	X	X												
ZDU 2.5/4AN (/E) BL				X															
ZDU 2.5/4AN/10				X															
ZDU 2.5-2/3				X															
ZDU 2.5-2/3AN (/E) BL				X															
ZDU 2.5-2/4AN (/E)				X															
ZDU 2.5-2/4AN (/E) BL				X															
ZDU 2.5 (/E)				X															
ZDU 2.5 (/E) BL				X															
ZDU 2.5-2		X	X		X														
ZDU 4									X	X									
ZDU 6								X											
ZDU 10 NT				X															
ZDU 16 16/3AN			X																
ZDU 35			X																
ZDUA 2.5-2 (/E)				X															
ZDUA 2.5-2 (/E) BL				X															
ZDUB 2.5/2-2/4AN				X															
ZDUB 2.5/2AN				X															
ZDUB 2.5-2/2AN				X															
ZIA 1.5/....		X	X	X	X	X	X												
ZK3S				X															
ZKB				X															
ZKS				X															
ZPE 2.5/4AN		X	X	X	X	X	X												
ZPE 2.5				X															
ZPE 2.5/3AN				X															
ZPE 2.5/3AN/E				X															
ZPE 2.5/4AN				X															
ZPE 2.5/4AN/E				X															
ZPE 2.5/E				X															
ZPE 2.5-2 (/E)				X															
ZPE 2.5-2/3AN		X	X	X	X	X	X												
ZPE 2.5-2/3AN/E				X															
ZPE 2.5-2/4AN				X															
ZPE 35				X															
ZPEA-2/E				X															
ZRV 1.5				X															
ZRV 1.5PE				X															
ZSI 2.5				X															
ZSI 2.5/2				X															
ZSLD 2.5/1.5				X															
ZTR 2.5		X	X	X	X	X	X												
ZTR 2.5 D		X	X	X	X	X	X												
ZTR 2.5/3AN				X															
ZVL 1.5		X	X	X	X	X	X												

[illegible]

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Terminal block labeling

KAB type (Allen Bradley, Woertz, Weidmüller)



-40 to +284 °F / -40 to +140 °C



PC



VO



Halogen-free terminal block labeling

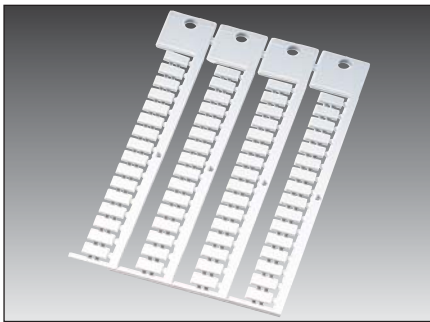


Individual and strip mounting

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 to organize additional systems.



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
Single labels										
KAB 6/12	86402014	White	9016	0.23x0.47	0.23x0.47	6/1	4	72	112	1,000
0.19" (5 mm)-pitch strip										
KAB 5/5.4-5	86402004	White	9016	0.19x0.21	0.19x0.21	3/1	5	110	55	1,430
KAB 5/9-5	86402006	White	9016	0.19x0.35	0.19x0.35	5/1	4	88	110	1,400
KAB 5/12-5	86402008	White	9016	0.19x0.47	0.19x0.47	6/1	4	88	111	1,400
0.23" (6 mm)-pitch strip										
KAB 6/9-6 *	86402010	White	9016	0.23x0.35	0.23x0.35	5/1	4	72	50	1,000
KAB 6/10-6 *	86402022	White	9016	0.23x0.39	0.23x0.39	5/1	4	72	56	1,000
KAB 6/12-6 *	86402012	White	9016	0.23x0.47	0.23x0.47	6/1	4	72	51	1,000
0.31" (8 mm)-pitch strip										
KAB 8/9-8	86402016	White	9016	0.31x0.35	0.31x0.35	5/1	4	52	53	1,040
KAB 8/12-8	86402018	White	9016	0.31x0.47	0.31x0.47	6/1	4	52	54	1,040

* Compatible with: Wörtz, Weidmüller (WDU, WPU only)

For matching base plates see plotter system accessories

Terminal block labeling

KET type (Entrelec)



-40 to +284 °F / -40 to +140 °C



PC



V0



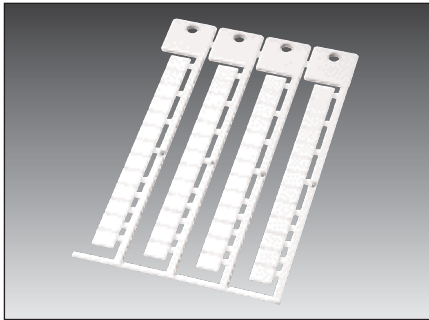
Halogen-free terminal block labeling



Strip installation

High-quality, halogen-free snap-in label plates.

The large printable area at the top allows room for individual project and terminal block reference, dispensing with the need to organize additional systems.

[illegible]

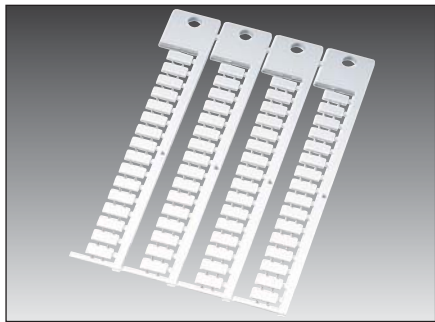


Terminal block labeling

KLG type (Legrand)

- 40 to +284 °F / -40 to +140 °C
- PC
- VO
- Halogen-free terminal block labeling
- Single installation

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



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
Single labels										
KLG 5/10	86421022	White	9016	0.19x0.39	0.19x0.39	5 /1	4	64	098	1,024
For matching base plates see plotter system accessories										

Terminal block labeling

KMR type (Weidmüller, Conta Clip)



-40 to +284 °F / -40 to +140 °C



PC



V0



Halogen-free terminal block labeling



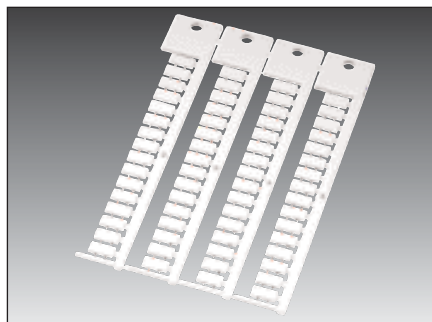
Individual and strip mounting

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 to organize additional systems.

Label plates designated as “0.19” (5 mm) and 0.23” (6 mm)-pitch strip” can be adapted to terminal block widths of 0.19” (5 mm) or 0.23” (6 mm) by means of an extension spring joint.



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
Single labels										
KMR 5/10	86401010	White	9016	0.19x0.39	0.19x0.39	5/1	4	64	30	1,000
KMR 5/15	86401014	White	9016	0.19x0.59	0.19x0.59	8/1	4	64	31	1,000
KMR 6/10	86401018	White	9016	0.23x0.39	0.23x0.39	5/1	4	64	32	1,000
KMR 6/15	86401022	White	9016	0.23x0.59	0.23x0.59	8/1	4	64	33	1,000
KMR 5/10 FA	86401032	White	9016	0.19x0.39	0.19x0.39	5/1	4	64	160	1,024
0.13” (3.5 mm)-pitch strip										
KMR 3.5/7.5-3.5	86401034	White	9016	0.13x0.29	0.13x0.29	4/1	4	120	161	1,200
0.19” (5 mm)-pitch strip										
KMR 5/7.5-5	86401026	White	9016	0.19x0.29	0.19x0.29	4/1	4	88	34	1,400
KMR 5/7.5-5	86401036	Yellow	1018	0.19x0.29	0.19x0.29	4/1	4	88	34G	1,400
KMR 5/10-5	86401012	White	9016	0.19x0.39	0.19x0.39	5/1	4	88	35	1,400
KMR 5/15-5	86401016	White	9016	0.19x0.59	0.19x0.59	8/1	4	88	36	1,400
KMR-PA 5/10-5	86401030	White	9016	0.19x0.39	0.19x0.39	5/1	4	88	35P	1,000
0.23” (6 mm)-pitch strip										
KMR 6/10-6	86401020	White	9016	0.23x0.39	0.23x0.39	5/1	4	72	37	1,000
KMR 6/15-6	86401024	White	9016	0.23x0.59	0.23x0.59	8/1	4	72	38	1,000
0.26” (6.7 mm)-pitch strip										
KMR 6/15-6.7	86401028	White	9016	0.23x0.59	0.23x0.59	8/1	4	64	39	1,700
0.19” (5 mm) and 0.23” (6 mm)-pitch strip										
◆ KMR 5/10-5...6	86401038	White	9016	0.19x0.39	0.19x0.39	5/1	4	88	-	1,400



Terminal block labeling

KPX type (Phoenix, Wago, Entrelec)



-40 to +284 °F / -40 to +140 °C



PC



VO



Halogen-free terminal block labeling



Individual and strip mounting

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 to organize additional systems.

Label plates designated as “0.19” (5 mm) and 0.23” (6 mm)-pitch strip” can be adapted to terminal block widths of 0.19” (5 mm) or 0.23” (6 mm) by means of an extension spring joint.

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

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

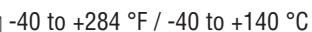


Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
Single labels										
KPX 4/10	86401224	White	9016	0.15x0.39	0.15x0.39	5/1	4	64	97	1,024
KPX 6/10	86401214	White	9016	0.23x0.39	0.23x0.39	5/1	4	64	40	1,000
KPX 6/15	86401218	White	9016	0.23x0.59	0.23x0.59	8/1	4	64	41	1,000
0.15” (4 mm)-pitch strip										
KPX 4/10-4	86401226	White	9016	0.15x0.39	0.15x0.39	5/1	4	100	98	1,400
0.19” (5 mm)-pitch strip										
KPX 5/10-5	86401210	White	9016	0.19x0.39	0.19x0.39	5/1	4	88	42	1,400
KPX 5/10-5	86401211	Yellow	1018	0.19x0.39	0.19x0.39	5/1	4	88	42G	1,400
KPX 5/15-5	86401212	White	9016	0.19x0.59	0.19x0.59	8/1	4	88	43	1,400
0.19” (5 mm)-pitch strip, flat base										
KPX 5/5-5 ZS	86401232	White	9016	0.19x0.19	0.19x0.19	3/1	5	110	42Z	2,090
KPX 5/10-5 ZS	86401234	White	9016	0.19x0.39	0.19x0.39	5/1	4	88	43Z	1,400
0.23” (6 mm)-pitch strip										
KPX 6/10-6	86401216	White	9016	0.23x0.39	0.23x0.39	5/1	4	72	44	1,000
KPX 6/15-6	86401220	White	9016	0.23x0.59	0.23x0.59	8/1	4	72	45	1,000
0.23” (6 mm)-pitch strip, flat base										
KPX 6/5-6 ZS	86401228	White	9016	0.23x0.19	0.23x0.19	3/1	5	90	44Z	2,070
KPX 6/10-6 ZS	86401236	White	9016	0.23x0.39	0.23x0.39	5/1	4	72	45Z	1,000
For matching base plates see plotter system accessories										

Terminal block labeling

KPX type (Phoenix, Wago, Entrelec)

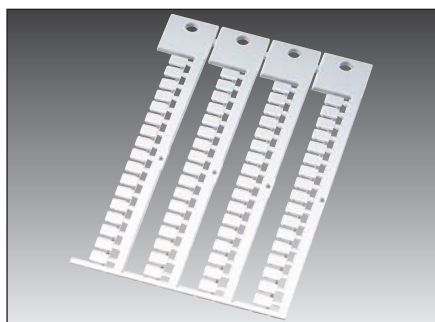
[illegible]



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 to organize additional systems.



Terminal block labeling

KWI type (Wieland, Telemecanique, Sprecher und Schuh, Harting D+E)



-40 to +284 °F / -40 to +140 °C



PC



V0



Halogen-free terminal block labeling



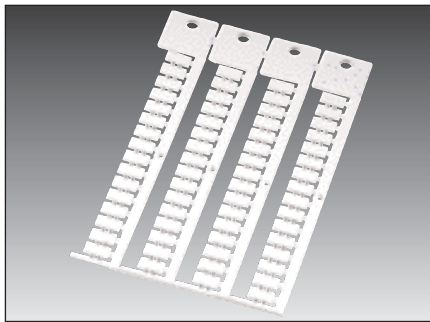
Individual and strip mounting

High-quality, halogen-free snap-in label plates.

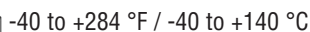
Labels available for mounting individually or in strips.

The large printable area at the top allows room for individual project and terminal block reference, dispensing with the need to organize additional systems.

Label plates designated as “0.19” (5 mm) and 0.23” (6 mm)-pitch strip” can be adapted to terminal block widths of 0.19” (5 mm) or 0.23” (6 mm) by means of an extension spring joint.



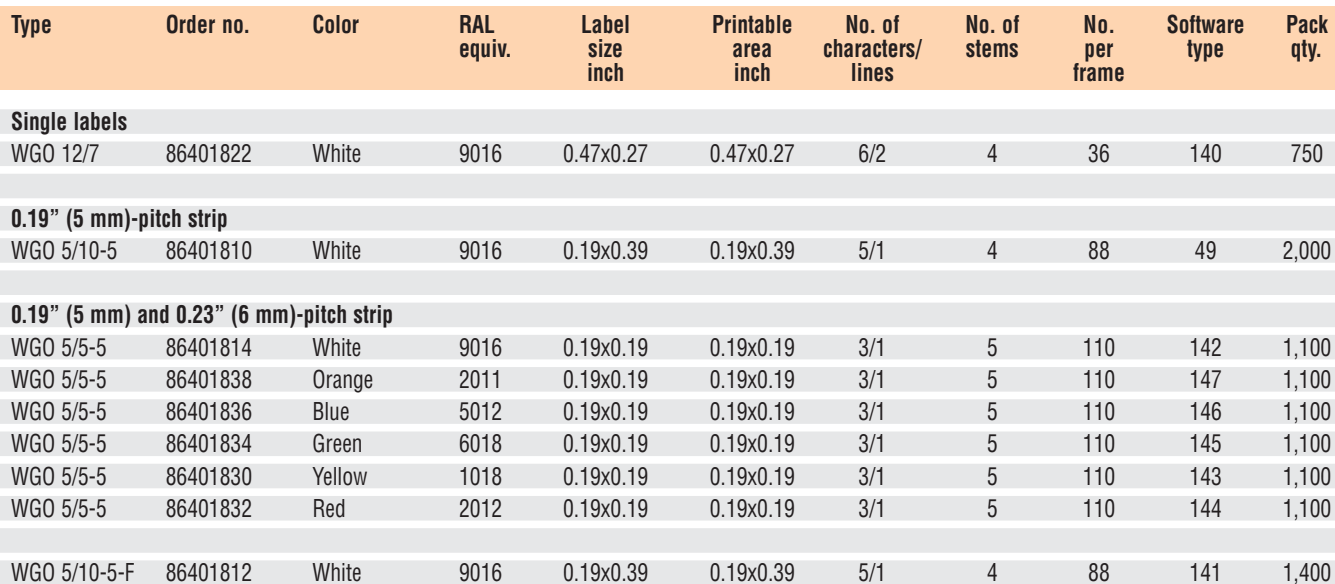
Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
Single labels										
KWI 5/10	86401410	White	9016	0.19x0.39	0.19x0.39	5/1	4	64	20	1,000
KWI 5/15	86401414	White	9016	0.19x0.59	0.19x0.59	8/1	4	64	21	1,000
KWI 6/10	86401420	White	9016	0.23x0.39	0.23x0.39	5/1	4	64	22	1,000
KWI 6/15	86401426	White	9016	0.23x0.59	0.23x0.59	5/1	4	64	23	1,000
KWI 6/15	86401450	Orange	2011	0.23x0.59	0.23x0.59	5/1	4	64	230	1,000
0.19” (5 mm)-pitch strip										
KWI 5/8.6-5	86401418	White	9016	0.19x0.33	0.19x0.33	4/1	4	88	24	1,400
KWI 5/10-5	86401412	White	9016	0.19x0.39	0.19x0.39	5/1	4	88	25	1,400
KWI 5/15-5	86401416	White	9016	0.19x0.59	0.19x0.59	5/1	4	88	26	1,400
0.23” (6 mm)-pitch strip										
KWI 6/8.2-6	86401430	White	9016	0.23x0.32	0.23x0.32	4/1	4	72	270	1,000
KWI 6/10-6	86401422	White	9016	0.23x0.39	0.23x0.39	5/1	4	72	27	1,000
	86401428	White	9016	0.23x0.59	0.23x0.59	5/1	4	72	28	1,000
0.26” (6.8 mm)-pitch strip										
KWI 6/10-6.8	86401424	White	9016	0.23x0.39	0.23x0.39	5/1	4	64	29	1,000
0.19” (5 mm) and 0.23” (6 mm)-pitch strip										
◆ KWI 5/10-5...6	86401432	White	9016	0.19x0.39	0.19x0.39	5/1	4	88	-	1,400
For matching base plates see plotter system accessories										



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 to organize additional systems.



For matching base plates see plotter system accessories

Terminal block labeling

TK type (Adels)



-40 to +284 °F / -40 to +140 °C

Label plate for insertion in transformer terminal blocks.



PA

Suitable for transformer terminal blocks with nail clip.



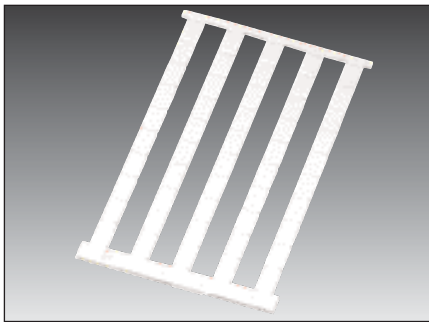
V2



Universal transformer terminal block
label plate



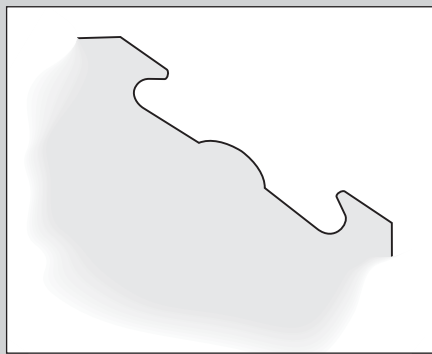
Individual and strip mounting

[illegible]

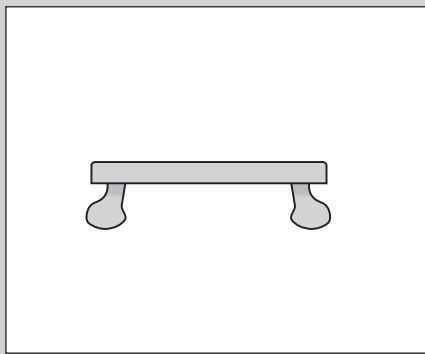


Terminal block labeling

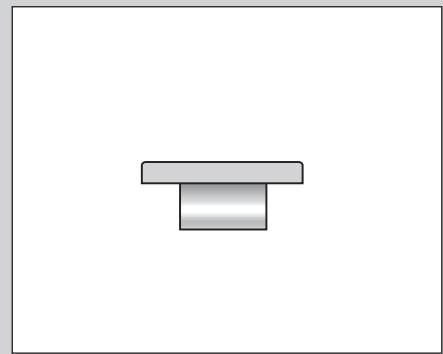
Terminal blocks and label profiles



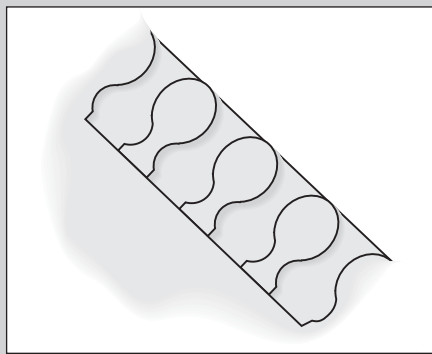
KAB 5/5,4-5 (terminal block profile)



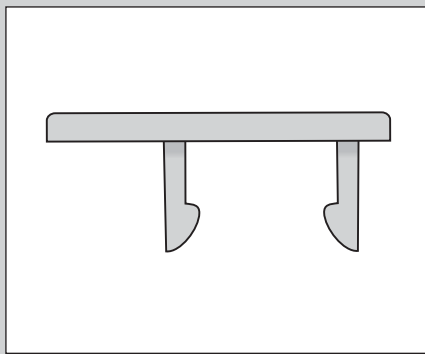
KAB 5/5,4-5 (label profile side view)



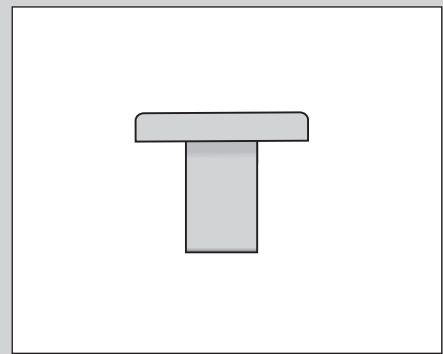
KAB 5/5,4-5 (label profile front view)



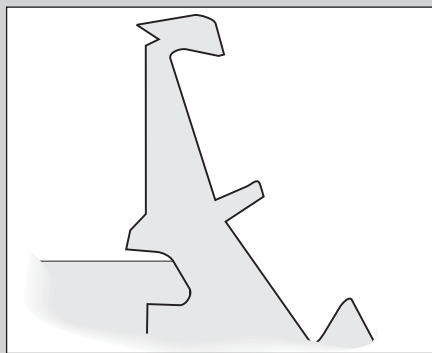
KAB 6/12-6 (terminal block profile)



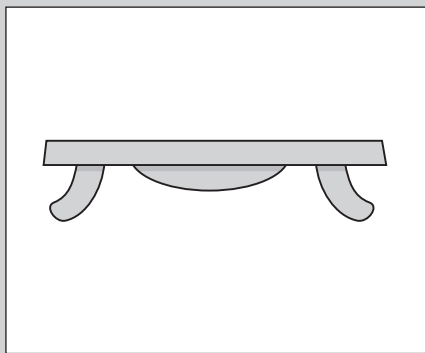
KAB 6/12-6 (label profile side view)



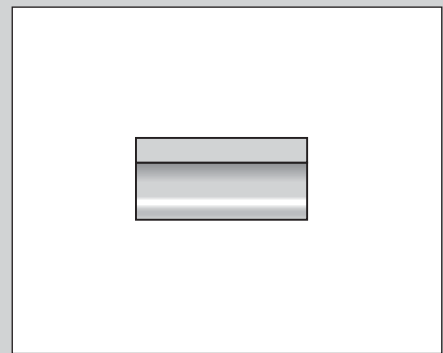
KAB 6/12-6 (label profile front view)



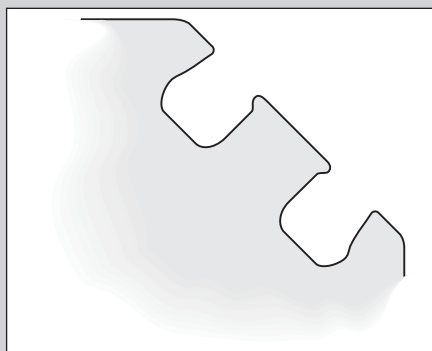
KET 5/10-5 (terminal block profile)



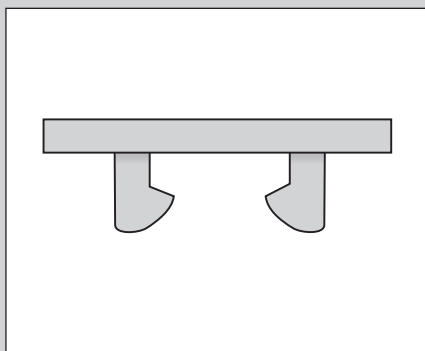
KET 5/10-5 (label profile side view)



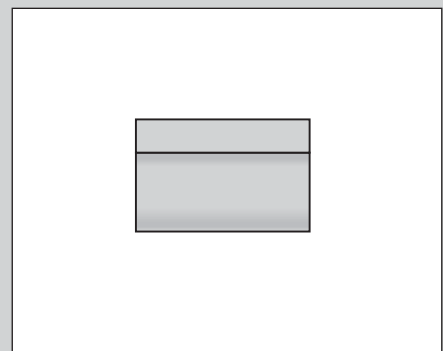
KET 5/10-5 (label profile front view)



KLG 5/10 (terminal block profile)



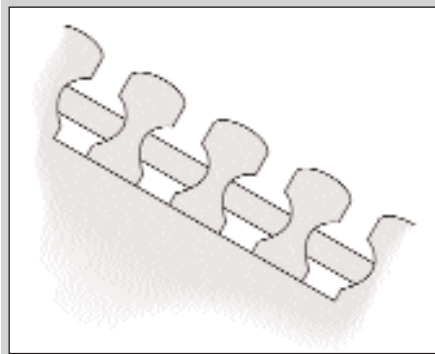
KLG 5/10 (label profile side view)



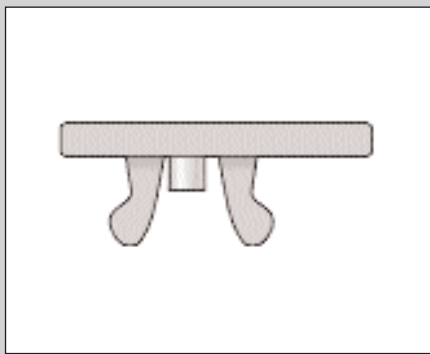
KLG 5/10 (label profile front view)

Terminal block labeling

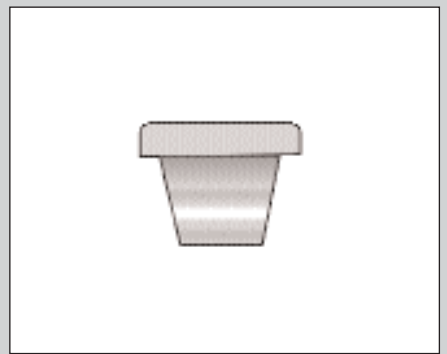
Terminal blocks and label profiles



KMR 5/10 FA (terminal block profile)



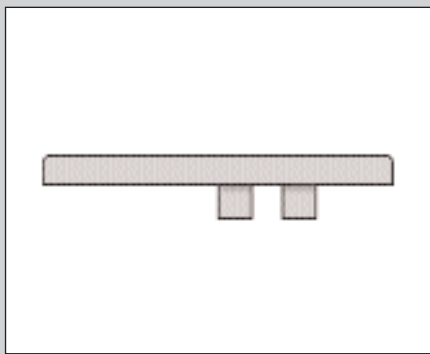
KMR 5/10 FA (label profile side view)



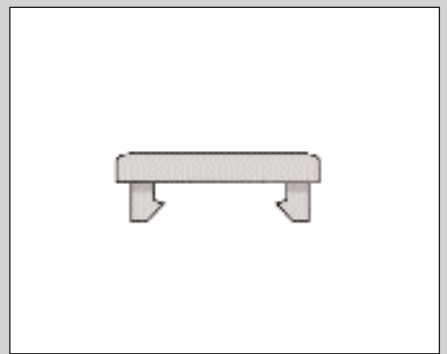
KMR 5/10 FA (label profile front view)



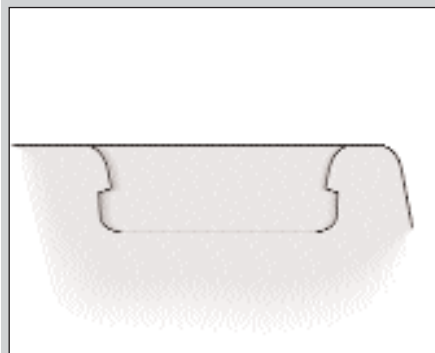
KMR 6/15-6.7 (terminal block profile)



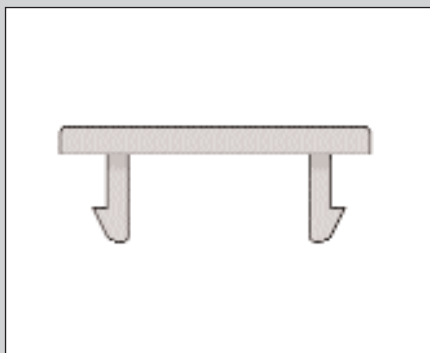
KMR 6/15-6.7 (label profile side view)



KMR 6/15-6.7 (label profile front view)



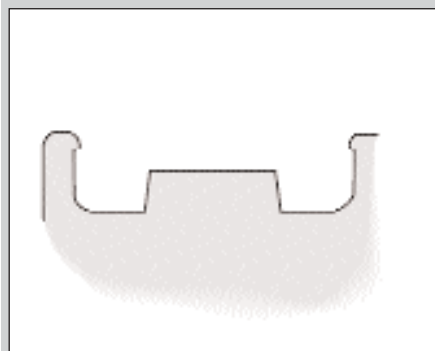
KPX 5/10-5 (terminal block profile)



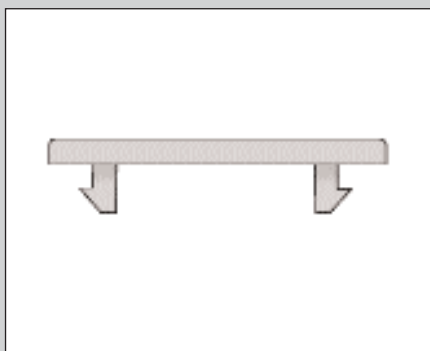
KPX 5/10-5 (label profile side view)



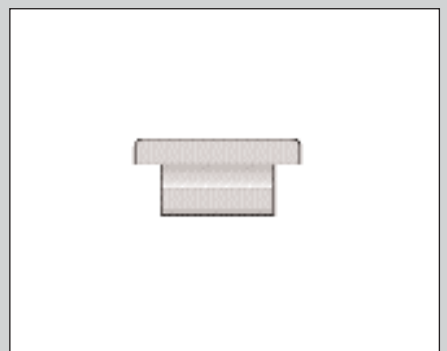
KPX 5/10-5 (label profile front view)



KPX 5/5-5 ZS (terminal block profile)



KPX 5/5-5 ZS (label profile side view)

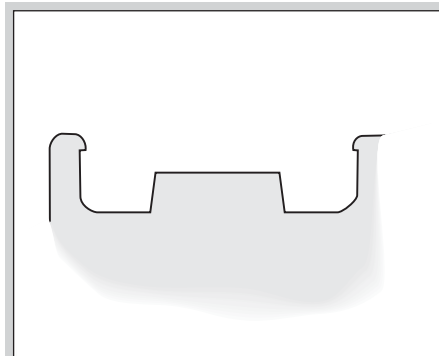


KPX 5/5-5 ZS (label profile front view)

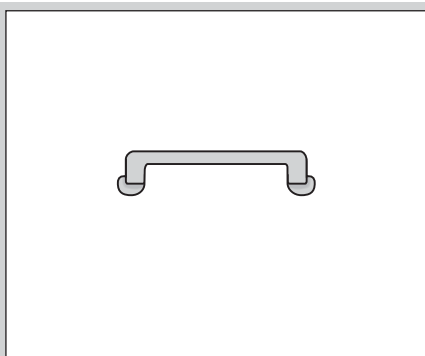


Terminal block labeling

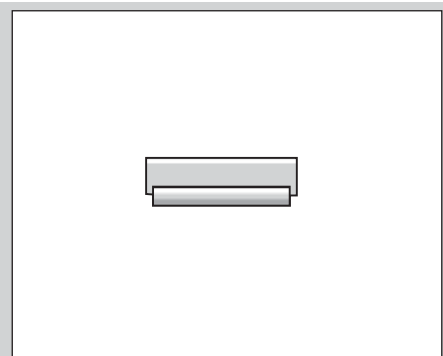
Terminal blocks and label profiles



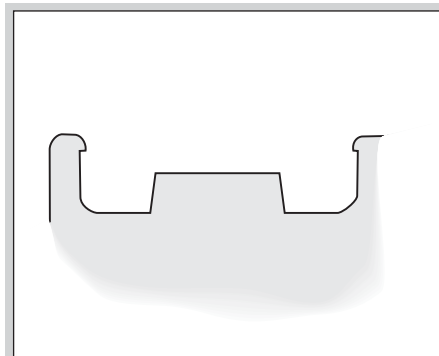
KPX 5/10-5 ZS (terminal block profile)



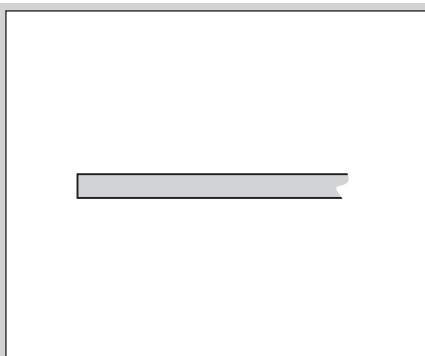
KPX 5/10-5 ZS (label profile side view)



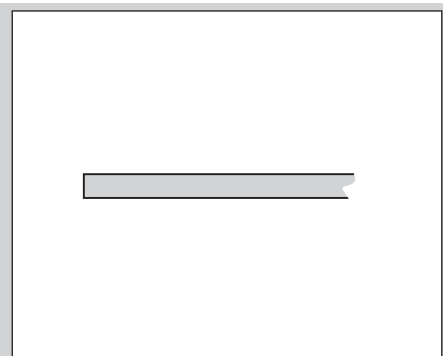
KPX 5/10-5 ZS (label profile front view)



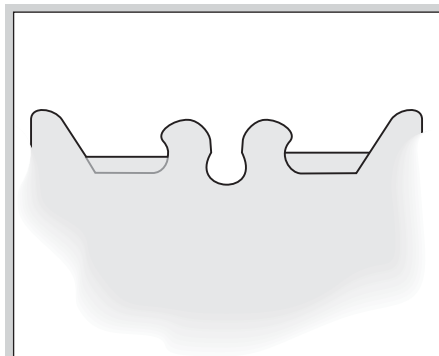
KPX 6/180 (terminal block profile)



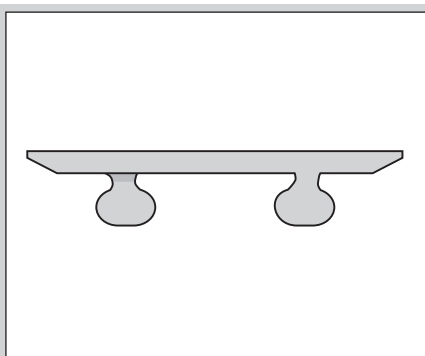
KPX 6/180 (label profile side view)



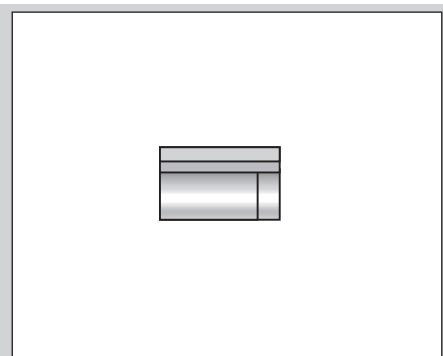
KPX 6/180 (label profile front view)



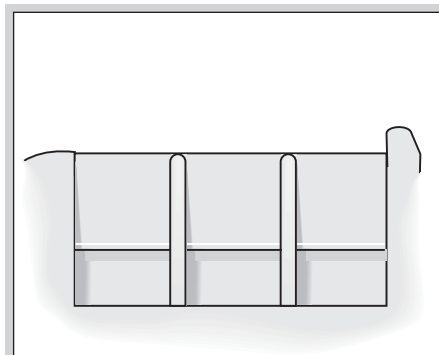
KSI 5/7 (terminal block profile)



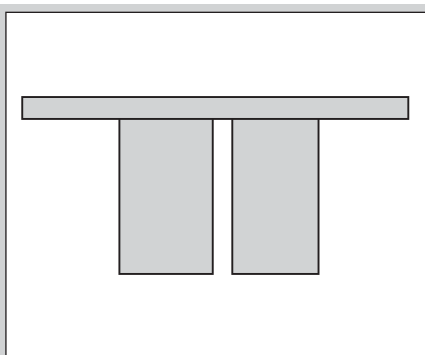
KSI 5/7 (label profile side view)



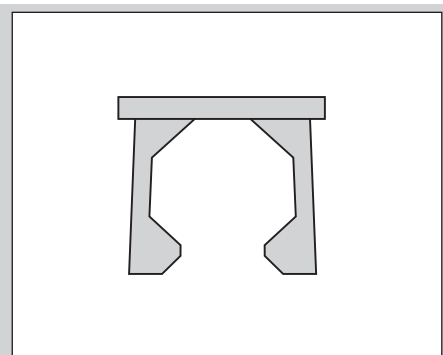
KSI 5/7 (label profile front view)



KWI 5/10 (terminal block profile)



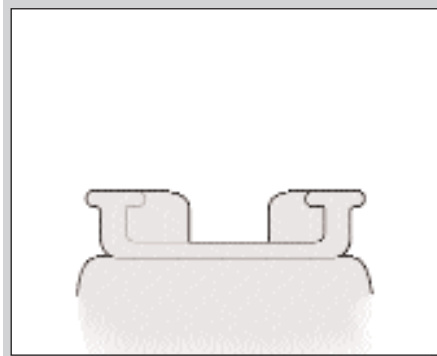
KWI 5/10 (label profile side view)



KWI 5/10 (label profile front view)

Terminal block labeling

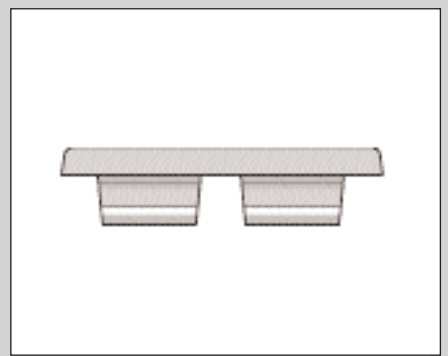
Terminal blocks and label profiles



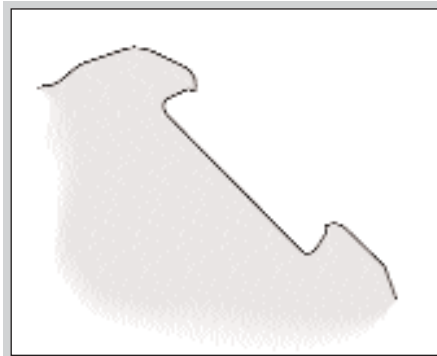
WGO 12/7 (terminal block profile)



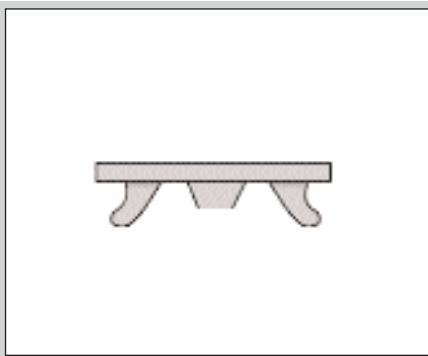
WGO 12/7 (label profile side view)



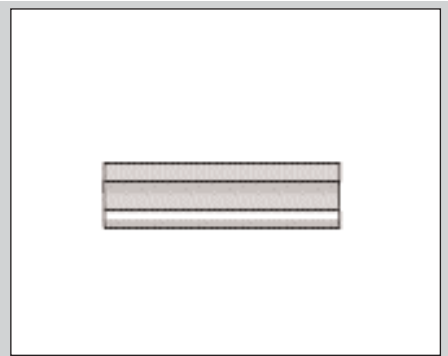
WGO 12/7 (label profile front view)



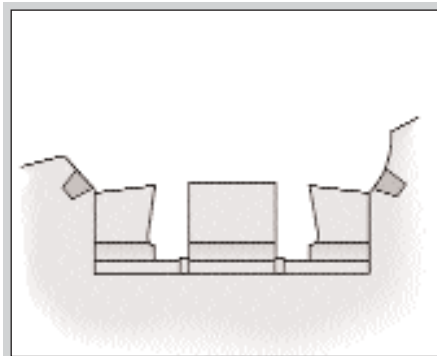
WGO 5/5-5 (terminal block profile)



WGO 5/5-5 (label profile side view)



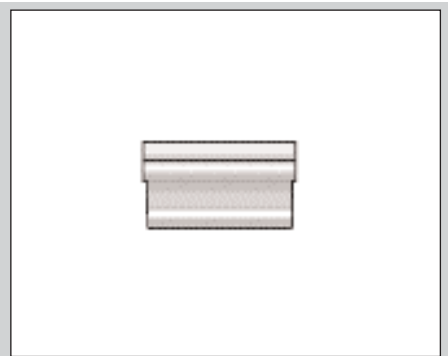
WGO 5/5-5 (label profile front view)



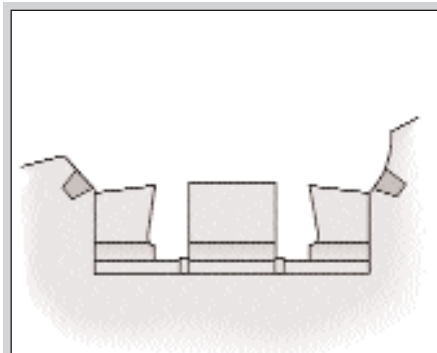
WGO 5/10-5 (terminal block profile)



WGO 5/10-5 (label profile side view)



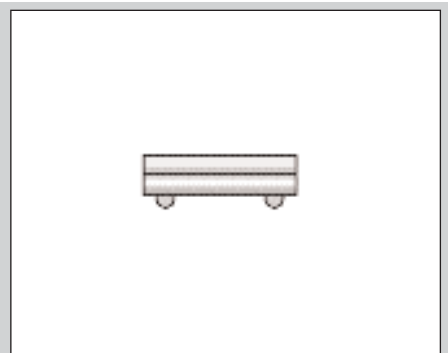
WGO 5/10-5 (label profile front view)



WGO 5/10-5-F (terminal block profile)



WGO 5/10-5-F (label profile side view)

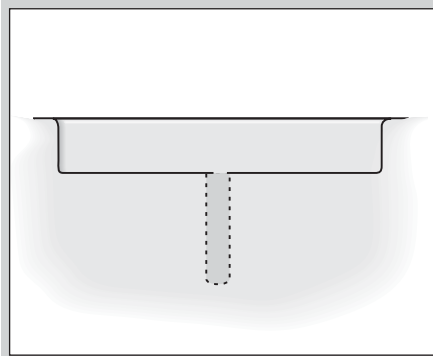


WGO 5/10-5-F (label profile front view)

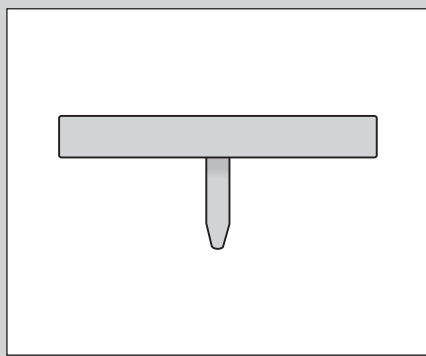


Terminal block labeling

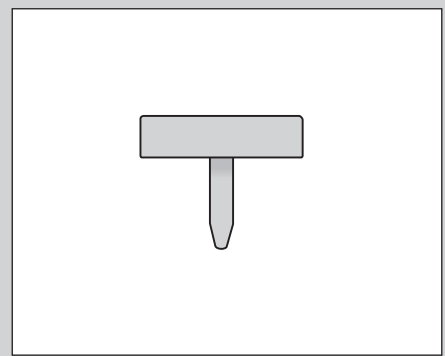
Terminal blocks and label profiles



TK 4.5-7.0 (terminal block profile)



TK 4.5-7.0 (label profile side view)



TK 4.5-7.0 (label profile front view)

Overview of installation in terminal block pitch

Label plate KPX U/5-ZS

Suitable for: ZBFM family made by Phoenix

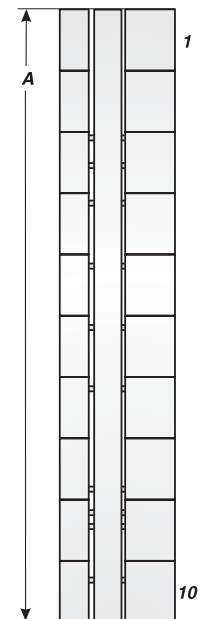
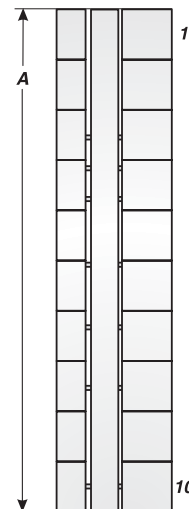
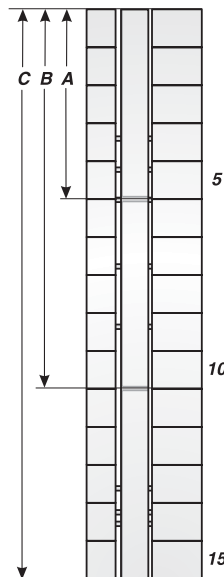
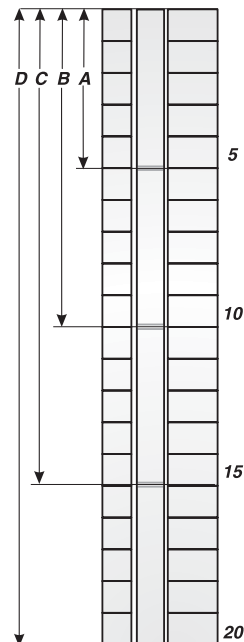
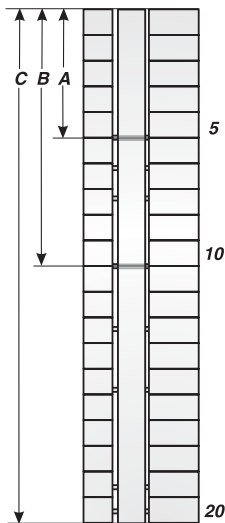
Pitch 4.2
WIN 180

Pitch 5.2
WIN 180

Pitch 6.2
WIN 180

Pitch 8.2
WIN 180

Pitch 10
WIN 180



Lengths on terminal
block

A: 0.81" (21 mm)
B: 1.67" (42 mm)
C: 3.30" (84 mm)

Lengths on terminal
block

A: 1.02" (26 mm)
B: 2.04" (52 mm)
C: 3.07" (78 mm)
D: 4.09" (104 mm)

Lengths on terminal
block

A: 1.22" (31 mm)
B: 2.44" (62 mm)
C: 3.66" (93 mm)

Lengths on terminal
block

A: 3.22" (82 mm)

Lengths on terminal
block

A: 3.93" (100 mm)

COMPONENT AND COMPONENT LOCATION LABELING





Component and component location labeling

Component labeling selection list

ABB

A9-30-10

	ABB 17/9	KSW 20/9	KSS 20/9	KTE 17/8	KTE 21/8	SNS 11x4	SNS 11x4 PT												
A9 switch contact		X			X	X													
A12 switch contact					X	X													
A16 switch contact					X	X													
A26 switch contact					X	X													
A30 switch contact					X	X													
A40 switch contact					X	X													
A50 switch contact					X	X													
A63 switch contact					X	X													
A75 switch contact					X	X													
A95 switch contact					X	X													
A110 switch contact					X	X													
A145 switch contact					X	X													
A185 switch contact					X	X													
A210 switch contact					X	X													
A260 switch contact					X	X													
A300 switch contact					X	X													
AF400 switch contact					X	X													
AF460 switch contact					X	X													
AF580 switch contact					X	X													
AF750 switch contact					X	X													
CA5-10/CA5-01		X																	
Mini contacts B6					X	X													
Mini contacts B7					X	X													
Automatic circuit-breaker	X																		
Sigma R1041							X	X											
SZ-KZS			X																

Bosch

Bosch distributor

Conta Clip

CP V40

	KMR 5/7,5-5	KMR 6/10	KMR 6/15	KPX 4/10	KPX 5/10-5	KPX 5/5-5 ZS	KPX 5/10-5 ZS	KPX 6/5-6 ZS	KPX 6/10	KPX 6/10-6 ZS	KPX 12/5-12 ZS	KSS 20/9							
Optocoupler, AOP	X								X										
Optocoupler, GEO	X					X	X												
Optocoupler, ODW	X										X								
Optocoupler, SSO	X							X		X									
PGSV		X	X									X							
PRSU					X														
PSP				X								X							

Escha

M12 distributor

	KES 20x8	KS 5/10	KSS 20/9																
Distributor block 8MB			X																
Distributor block FK/FKS	X		X																
Distributor block MB		X																	

Component and component location labeling



Component labeling selection list

Festo

Compact Performance

CPA10/EV1

Electronic CP-E16-M

IBS 6x10

IBS 9/17

IBS 9/20

IBS 10/17

MHA1

MH-BZ-80X

MPV

Pneumatic CPV

SBS 8x10

Valve element

ABB17/9	KAB 17/10	KPY 6/10	KSF 4.5x9	KSF 4.5x9	KSF 10x8	KSF 20/9	KSO 35/9	KSS 20/9											
		X																	
		X																	
		X																	
X		X																	
	X					X		X											
				X															
			X																
			X																
					X														
							X												
								X											

GE

GE/Eifa/AEG EP61 - B16

KSK 15x9																			
X																			

IFM

AC 20 xx Classic Module/Universal M

AC 24 80/81 Compact Line

AC 24 xx Compact Module

AC 50 xx Module lower parts

AC 225 Smart Line

Adhesive labels for housing w/o holder

Connecting cables M12/M8

KS 4/23	KSK 15x9	KSK 20/9	KSS 10 x 8	KSS 20/9	KTE 17/8	KTE 21/8													
			X																
			X																
				X															
					X	X													
	X																		

Indramat

Interbus SMER and SMA 12 made by Rexroth

KSF 20/9																			
X																			

Klöckner-Möller

Switch series MRQ 16

Key elements XA/ XB

DM 22x10 Radius	DM 27x18 SS/SW R SK																		
X																			
	X																		



Component and component location labeling

Component labeling selection list

Luetze

Lütze relay

SKS 11x4

Lumberg

AS Interface ABAS/UTAS

AS Interface IBA

ASB 8 (8x)

ASBSV

Lumberg distributor

Multipoint connector SBS4/LED-3

Valve plug (holder KM 6/15)

Distributor E2C

Distributor SB8

ABB17/9

DM 16x06

KM 6/15

KS 4/18

KSF 20/9

KSL 12/9

KSL 20/9

KSS 10 x 8

KSS 10 x 8 PT

KSS 20/9

ABB17/9

KES 20x8

KPX 5/10-5

KPX 5/15-5

KS 4/18

KS 5/10

KSF 20/9

KSS 20/9

KWI 5/15

TK 4.5-7.5

Murrelektronik

Item no.: 276397

Item no.: 336496

Item no.: 336522

Cube67

Cube67 BN-P

M 8 Y-distributor

M 8 distributor with solid cable/single-row

M 12 distributor

M 12 Y-cable

Miro series coupling relay

MSVD/MSDD

MVK8 ASI bus modules

MVK8 ASI modules D18/item no. 55631

MVK12 ASI bus modules

MVK-I bus module item no. ME 55330

MVP 12/4-way distributor 27114

MVP 12/6-way distributor 27115

MVP 12/8-way distributor 27116

MVP 12 ASI module distributor 27773 - 27778

Optocoupler

Distributor MVB 8V

KPF 18.5 x 8

KS 5/10

KSF 20/9

KSK 20/9

KSO 20/9

KSS 10 x 8

Pepperl+Fuchs

ASI VAA-2E-64SN (pneumatic module VAA)

ASI bus module

Bus distributor

G6 compact modules (10 x 5 label)

G6 compact modules (10 x 8 label)

IPG-64-B7

K-series (module label holder)

Power repeater

VAS 2A-K 12U

VVA-4E-62-ZE



Component and component location labeling

Component labeling selection list

Siemens

	KSS 10 x 8	KSS 20/9	SKS 10 x 7	SKS 20 x 7															
3RH19 11-1AA..				X															
3RH19 11-1FA..				X															
3RH19 11-1GA..				X															
3RH19 11-1HA..				X															
3RH19 11-1LA..			X																
3RH19 11-1NF..			X																
3RH19 11-2FA..				X															
3RH19 11-2GA..			X	X															
3RH19 11-2HA..				X															
3RH19 11-2NF..			X																
3RH19 21-1C..			X																
3RH19 21-1F..				X															
3RH19 21-1FE22			X	X															
3RH19 21-1HA..			X	X															
3RH19 21-1LA..				X															
3RH19 21-1MA..				X															
3RH19 21-2C..			X																
3RH19 21-2F..				X															
3RH19 21-2FE22			X	X															
3RH19 21-2HA..			X	X															
3RT19 16-2..				X															
3RT19 16-2B.01				X															
3RT19 16-2C..				X															
3RT19 16-2D..				X															
3RT19 26-2..				X															
3RT19 26-3A.31				X															
3RV				X															
3RV10				X															
6ES71411BF01-0XB0	X																		
6ES71421BD40-0XA0	X																		
End bracket 8WA1 808		X																	
Motor protecting switch				X															
Control elements 3SB14..	X																		
BUTTON 3SB 3	X																		
Signum button series; contact block; bus module ET 200X	X																		

Telemechanique

	KTE 17x8	KTE 21x8																	
GC-10020		X																	
GC-10040		X																	
GC-1610	X																		
GC-1611	X																		
GC-1620	X																		
GC-1622	X																		
GC-1640	X																		
GC-2502	X																		
GC-2504	X																		
GC-2510	X																		
GC-2511	X																		
GC-2520	X																		
GC-2522	X																		
GC-2530	X																		
GC-2540	X																		
GC-4002		X																	
GC-4004		X																	
GC-4011		X																	
GC-4020		X																	
GC-4022		X																	
GC-4030		X																	
GC-4040		X																	
GC-6302		X																	
GC-6304		X																	
GC-6311		X																	
GC-6320		X																	
GC-6322		X																	
GC-6330		X																	
GC-6340		X																	

Telemechanique

GF-1610	X	X
GF-1611		X
GF-1620		X
GY-1611	X	
GY-1620	X	
GY-1640		X
GY-2511	X	
GY-2520	X	
GY-2530		X
GY-2540		X
GY-4020		X
GY-4030		X
GY-4040		X
GY-6320		X
GY-6330		X
GY-6340		X
LD1-LB030		X
LD1-LC030		X
LD4-LC030		X
LD4-LC130		X
LD5-LC030		X
LD5-LC130		X

[illegible][illegible][illegible]



Component and component location labeling

SKS type (Siemens)



-40 to +284 °F / -40 to +140 °C



PC



VO



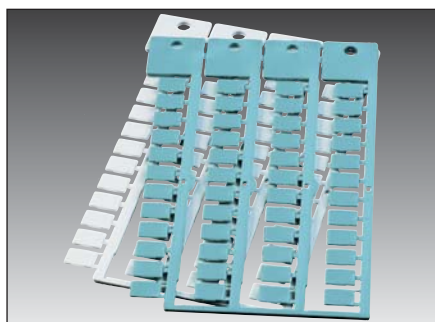
Halogen-free component labeling



For control gear

High-quality, halogen-free snap-in label plates for Siemens Sirius components.

The large printable area at the top allows room for individual project and component reference, dispensing with the need to organize additional systems.



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
SKS/PC 10x7 Sirius	86401652	White	9016	0.39x0.27	0.39x0.27	5/2	4	48	96	816
SKS/PC 10x7 Sirius	86401662	Pale turquoise		0.39x0.27	0.39x0.27	5/2	4	48	096	816
SKS/PC 11x4 Sirius	86401658	White	9016	0.43x0.15	0.43x0.15	6/1	4	80	134	1,200
SKS/PC 11x4 Sirius	86401660	Pale turquoise		0.43x0.15	0.43x0.15	6/1	4	80	135	1,200
SKS/PC 20x7 Sirius	86401656	White	9016	0.78x0.27	0.78x0.27	11/2	4	20	95	340
SKS/PC 20x7 Sirius	86401664	Pale turquoise		0.78x0.27	0.78x0.27	11/2	4	20	095	340

For matching base plates see plotter system accessories

Component and component location labeling



KSS type (Moeller, Murrelektronik, Siemens)



-40 to +284 °F / -40 to +140 °C



PC



V0



Halogen-free component labeling

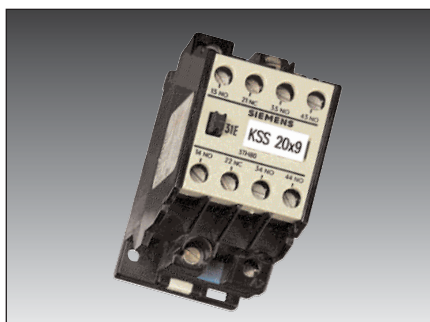
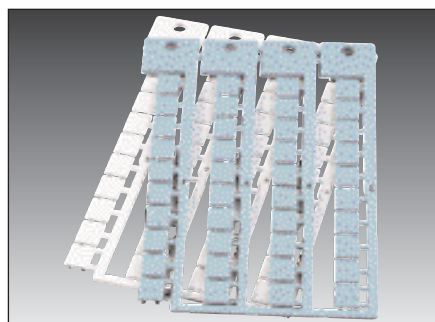


For control gear

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

Adaptors render the labels usable for component location labeling.

Multiframe compatible with other manufacturers.



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
KSS 10x8 for ASI *	86421006	White	9016	0.39x0.31	0.39x0.31	5/2	4	40	77	800
KSS 10x8 for ASI *	86421008	Pale turquoise		0.39x0.31	0.39x0.31	5/2	4	40	78	800
KSS 20x9 **	86421010	White	9016	0.78x0.35	0.78x0.35	11/2	4	20	67	380
KSS 20x9 **	86421011	Yellow	1018	0.78x0.35	0.78x0.35	11/2	4	20	67G	380
KSS 20x9 **	86421009	Pale turquoise		0.78x0.35	0.78x0.35	11/2	4	20	67P	380

* Component location labeling in conjunction with:
BZS label rail

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

For matching base plates see plotter system accessories

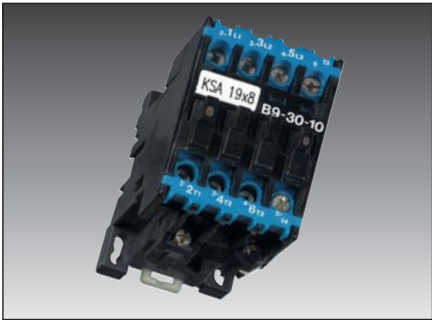
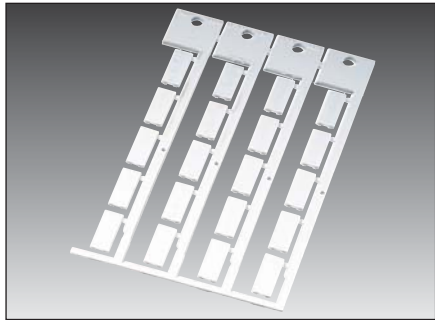


Component and component location labeling

KSA type (AEG, Square D)

- 40 to +284 °F / -40 to +140 °C
- PC
- V0
- Halogen-free component labeling
- For control gear

High-quality, halogen-free snap-in label plates for components. The large printable area at the top allows room for individual project and component reference, dispensing with the need to organize additional systems. Adaptors render the labels usable for component location labeling.

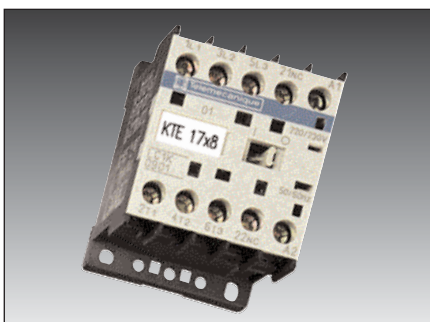
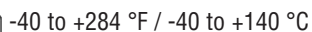


Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
KSA 19x8 *	86421012	White	9016	0.74x0.31	0.74x0.31	10 /2	4	20	70	380

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

For matching base plates see plotter system accessories

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For matching base plates see plotter system accessories

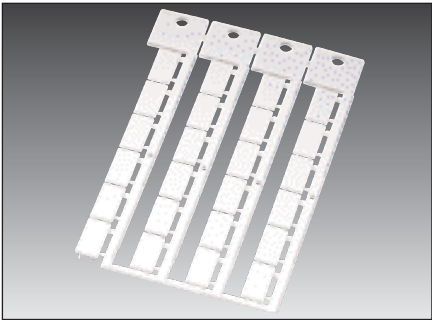
Component and component location labeling



ABB type (ABB)

- 40 to +284 °F / -40 to +140 °C
- PC
- V0
- Halogen-free component labeling
- For control gear

High-quality, halogen-free snap-in label plates for components.
The large printable area at the top allows room for individual project and component reference, dispensing with the need to organize additional systems.
Adaptors render the labels usable for component location labeling.



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
ABB 17x9	86421020	White	9016	0.66x0.35	0.66x0.35	9/2	4	24	68	384
ABB 17x9	86421021	Pale turquoise		0.66x0.35	0.66x0.35	9/2	4	24	68P	384

* Component location labeling in conjunction with:
BZS label rail

For matching base plates see plotter system accessories





Component and component location labeling

KMO type (Moeller)



-40 to +284 °F / -40 to +140 °C



PC



VO

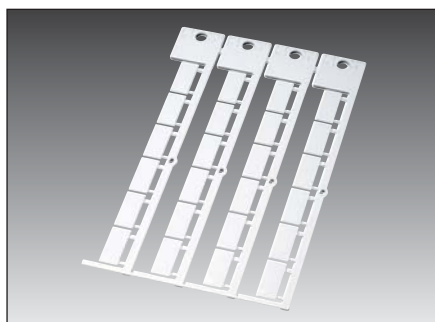


Halogen-free component labeling



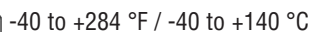
For control gear

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

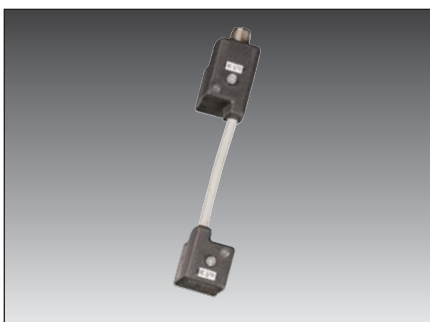
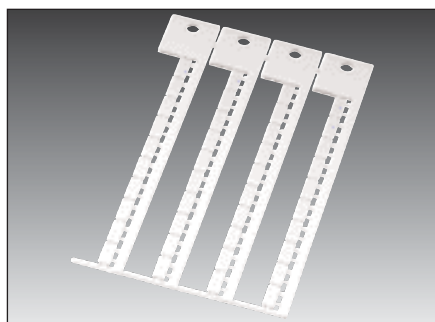


Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
KMO 17.5x8 *	86421070	White	9016	0.68x0.31	0.68x0.31	9/2	4	24	190	840
Adaptor for DILLER and DILLET series for use with components without auxiliary contacts										
KMO adaptor	86421074	White	9016	-	-	-	-	-	-	380
KSS 20x9 label plate required (please order separately)										
Set comprising KMO adaptor and KSS 20x9 label plate										
KMO 22.5x8	86421072									380
* Component location labeling in conjunction with: BZS 9 label rail										
For matching base plates see plotter system accessories										

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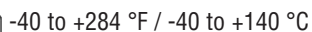
High-quality, halogen-free snap-in label plates for components. The large printable area at the top allows room for individual project and component reference, dispensing with the need to organize additional systems.



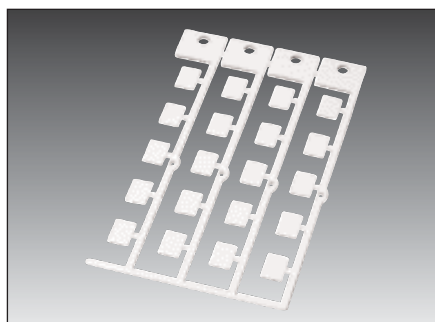
For base plates matching the plotter system see pages 94/95



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



For matching base plates see plotter system accessories





Component and component location labeling

KES type (Escha)



-40 to +284 °F / -40 to +140 °C



PC



V0

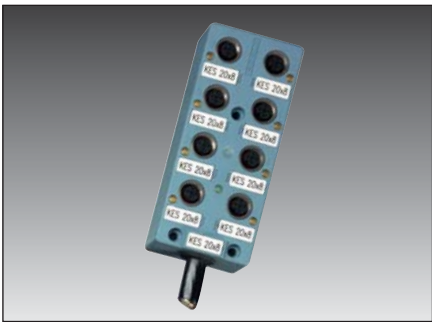
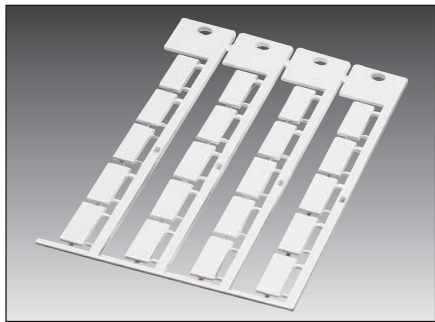


Halogen-free component labeling



For distributor boxes

High-quality, halogen-free snap-in label plates for components. The large printable area at the top allows room for individual project and component reference, dispensing with the need to organize additional systems. Adaptors render the labels usable for component location labeling.



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
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KES 20x8 *	86421052	White	9016	0.78x0.31	0.78x0.31	11/2	4	20	99	380
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* Component location labeling in conjunction with:
BZS 9 label rail

For matching base plates see plotter system accessories



Component and component location labeling



KPF type (Pepperl und Fuchs)



-40 to +284 °F / -40 to +140 °C



PC



V0

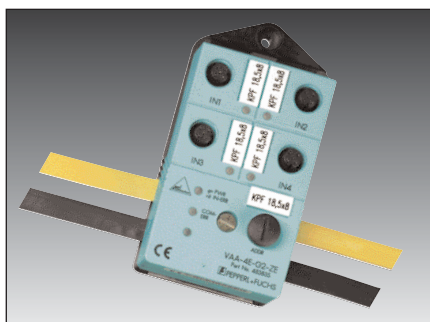
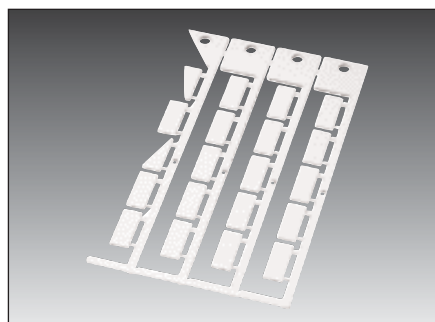


Halogen-free component labeling



For distributor boxes

High-quality, halogen-free snap-in label plates for components. The large printable area at the top allows room for individual project and component reference, dispensing with the need to organize additional systems. Adaptors render the labels usable for component location labeling.



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
KPF 18.5x8	86421054	White	9016	0.72x0.31	0.72x0.31	10/2	4	20	250	480

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

For matching base plates see plotter system accessories

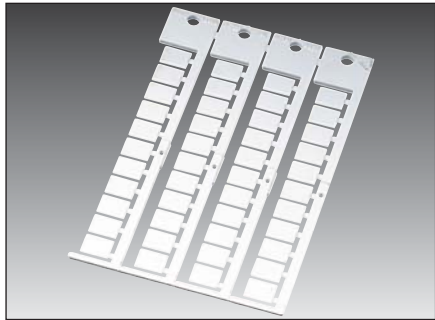


Component and component location labeling

KSK type (universal adhesive label)

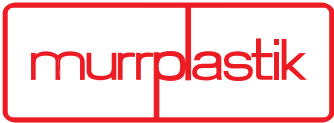
- 40 to +284 °F / -40 to +140 °C
- PC
- VO
- Halogen-free component and component location labeling
- A30 acrylate adhesive. Processing temperature > +10 °C

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



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
KSK 11x9	86421034	White	9016	0.43x0.35	0.43x0.35	5/2	4	44	61	1,400
KSK 15x9	86421036	White	9016	0.59x0.35	0.59x0.35	7/2	4	44	63	1,400
KSK 20x9	86421038	White	9016	0.78x0.35	0.78x0.35	11/2	4	20	66	680
KSK 20x9	86421088	Yellow	1018	0.78x0.35	0.78x0.35	11/2	4	20	66G	680
For matching base plates see plotter system accessories										

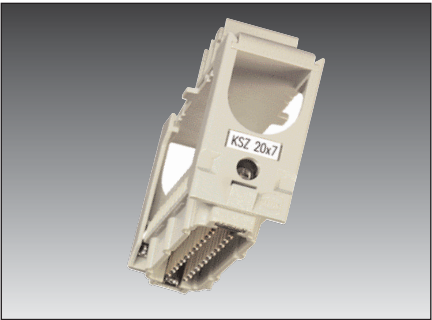
Component and component location labeling



KSZ type (Harting)

- 40 to +284 °F / -40 to +140 °C
- PC
- V0
- Halogen-free component labeling

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



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
KSZ 20x7	86421040	White	9016	0.78x0.27	0.78x0.27	10/2	-	Loose	200	100

For matching base plates see plotter system accessories



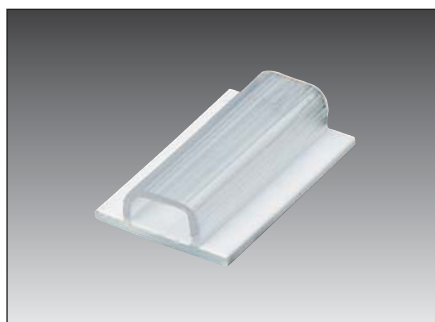
 -40 to +284 °F / -40 to +140 °C

 V0



 Polyacrylate adhesive, processing temperature > +10 °C

If the bonding surface is prepared properly the acrylic adhesive can form a permanent bond.

[illegible]

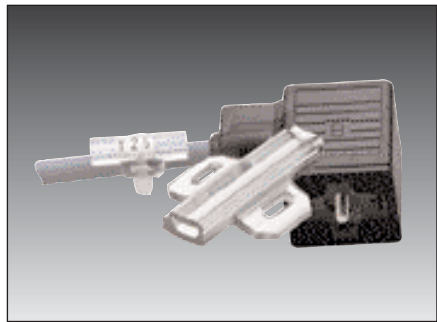
Component and component location labeling



KM 4 type

-  -40 to +284 °F / -40 to +140 °C
-  PVC
-  V0
-  For further details see chapter on single wire, cable, and conduit labeling

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



Type	Order no.	Color	Length inch	For label plate	No. of identis BK23/BK30	Pack qty.
KM 4/23	86321020	Transparent	0.90	KS 4/x; DM 4...	10/7	1,000
KM 4/28	86321022	Transparent	1.10	KS 4/x; DM 4...	12/9	1,000
KM 4/31	86321024	Transparent	1.22	KS 4/x; DM 4...	13/10	1,000
KM 4/36	86321026	Transparent	1.41	KS 4/x; DM 4...	15/12	1,000
KM 4/45	86321028	Transparent	1.77	KS 4/x; DM 4...	19/15	1,000

For correct size of cable tie KB see accessories



Component and component location labeling

KM 6 type



-40 to +284 °F / -40 to +140 °C



PVC



V0

High-quality, transparent label holder for component labeling.
Snap-in installation.

Adaptors render the label holders usable for component location labeling.



Type	Order no.	Color	Length inch	For label plate	No. of idents BK23/BK30	Pack qty.
KM 6/15 *	86321030	Transparent	0.59	KS 4.../DM 4...	6/5	1,000
KM 6/18 *	86321032	Transparent	0.70	KS 4.../DM 4...	7/6	1,000
KM 6/21 *	86321034	Transparent	0.82	KS 4.../DM 4...	9/7	1,000
KM 6/27 *	86321036	Transparent	1.06	KS 4.../DM 4...	11/9	1,000

* Component location labeling in conjunction with:
BZS label rail

Component and component location labeling



BS type



-40 to +284 °F / -40 to +140 °C



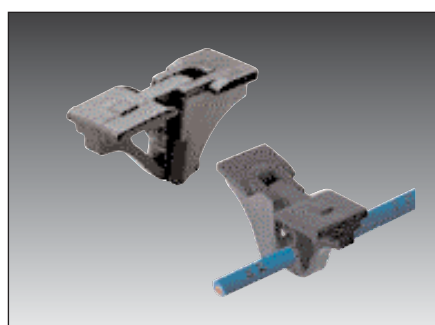
PVC



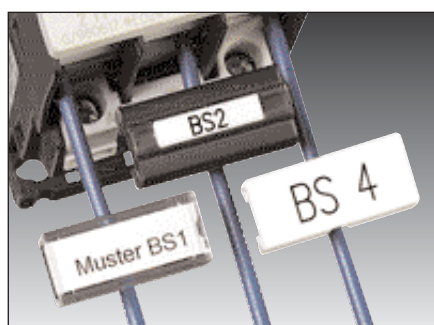
V0

For subsequent inscription of control gear or unit location.

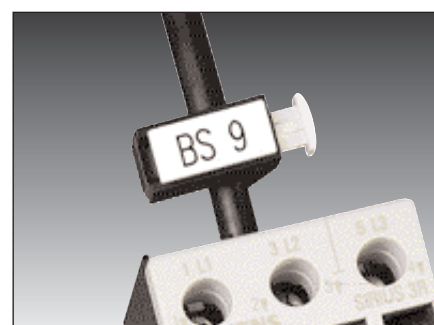
The BS 9/10 label holder is secured by means of a self-clamping (spring-loaded) base.



BS 3



BS 1/BS 2/BS 4

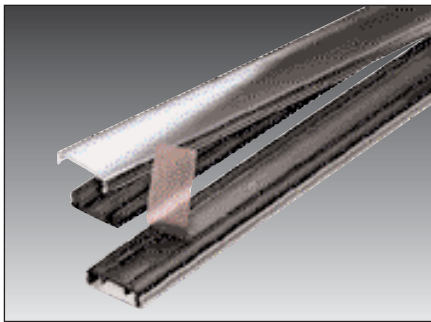


BS 9

Type	Order no.	Application range from - to inch	Core cross section from - to mm²	For label plate	No. of ident's BK23/BK30	Printable area inch	No. of characters/lines	No. per sheet	Software type	Pack qty.
Clamping piece with top part to hold paper strips for lengthways inscription (Supplied with paper strips)										
BS 1	86281010	max. 0.14	0.5-2.5	—	—	1.06x0.31	10/2	250	BSM	500
Paper sheet DIN A4 for BS 1										
Paper sheet	86281013	—	—	—	—	0.98x0.31	10/2	250	BSM	250
Clamping piece with top part to hold ident's BK or KS 4/x										
BS 2	86281014	max. 0.14	0.5-2.5	KS 4.../DM 4...	11/9	1.06x0.15	12/1	—	—	500
Clamping piece for KM 7 and BS 5										
BS 3	86281016	max. 0.14	0.5-2.5	—	—	—	—	—	—	190
Clamping piece with top part for ACS plotter marking										
BS 4	86281018	max. 0.14	0.5-2.5	1.06x0.47	—	1.06x0.47	12/3	—	79	190
BS 4 requires no base plate										
Label holder (self-clamping)										
Matching label holder KM 6/18 or KSS 20x9										
BS 9	86281024	max. 0.20	—	—	—	—	—	—	—	50
BS 10	86281026	max. 0.43	—	—	—	—	—	—	—	50

 -40 to +176 °F / -40 to +80 °C

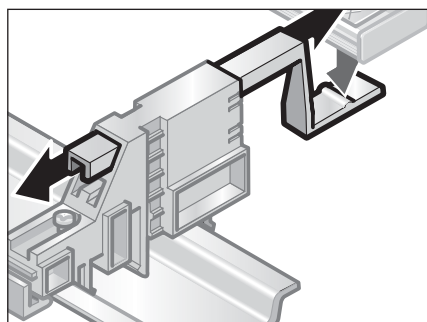
Label rail for component location labeling providing a base for gluing. The transparent cover is recommended to keep the label plates clean and free of mechanical load.



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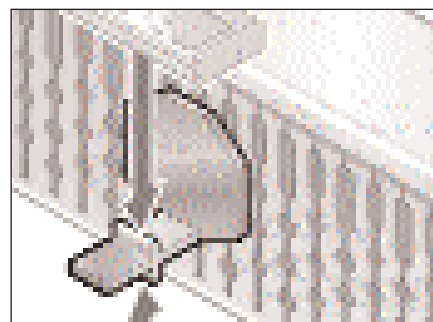
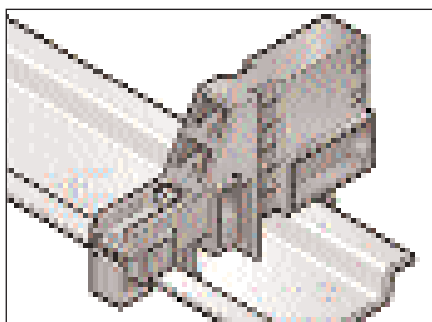
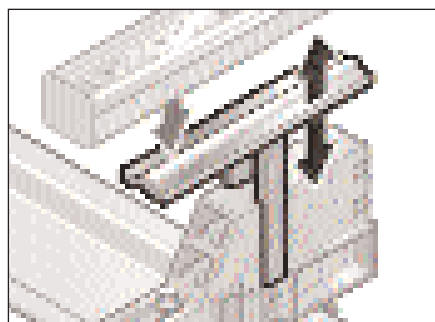
The BZS system was developed as a simple means of accommodating a great deal of labeling information in or on the control cabinet. The BZS system is extremely versatile. The labeling rail with the snap-in labels provides vertical and horizontal designation of terminal blocks and other components. The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



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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. The BSZ system meets every need.



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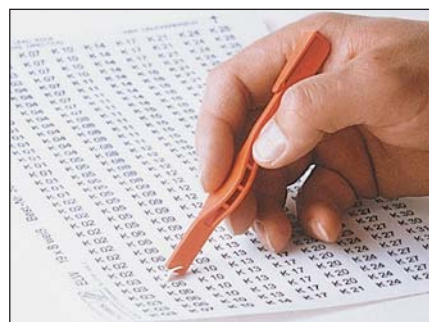
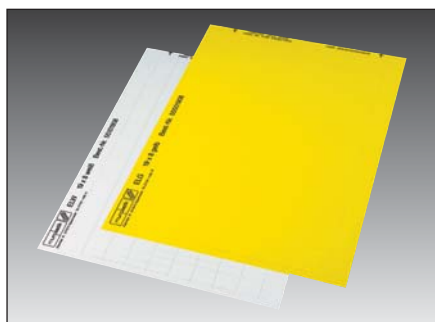
[illegible]



Self-adhesive consecutive labels on DIN A4 sheets.

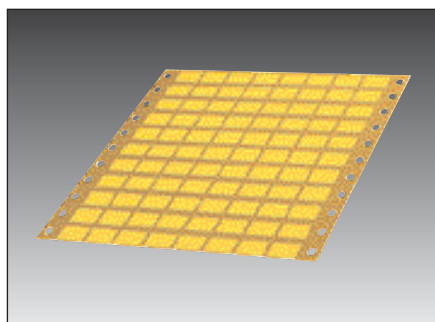


Use in electrical systems and installations of all kinds.





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





Component and component location labeling

DM label plate



-40 to +176 °F / -20 to +80 °C



Acrylate polymer



Single-line and multi-line inscription



Use in electrical systems and installations of all kinds

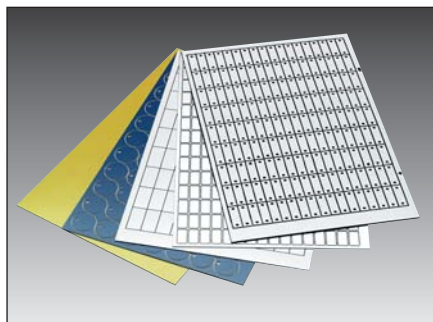
Two-ply plastic material for inscribing or engraving.

Articles bearing the DM designation have exact locating holes for plotters.

The mat size is 7.87x11.81" (200 x 300 mm).

Further dimensions and colors on request.

Please ask for our special carbide tools/engraving materials catalog.



Type	Order no.	Base color / fill color	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per mat	Software type labels	Pack qty.
Right-angled corners, self-adhesive									
DM 16x6	86501010	Yellow/black	0.62x0.23	0.62x0.23	9/1	17	510	1	1
GE/SW SK									
DM 17x6	8601200018	White/black	0.66x0.23	0.66x0.23	10/1	17	493	2	1
WS/SW SK									
DM 25x10	8601200034	White/black	0.98x0.39	0.98x0.39	14/2	11	198	327	1
WS/SW SK									
DM 26x9	86501812	White/black	1.02x0.35	1.02x0.35	15/2	11	220	78	1
WS/SW SK									
DM 27x12	8601200005	White/black	1.06x0.47	1.06x0.47	15/2	11	165	11	1
WS/SW SK									
DM 27x12.5	8601200021	White/black	1.06x0.49	1.06x0.49	15/2	10	150	015	1
WS/SW SK									
DM 27x12.5	8601200031	Silver/black	1.06x0.49	1.06x0.49	15/2	10	150	13	1
SI/SW SK									
DM 27x18	8601200012	White/black	1.06x0.70	1.06x0.70	15/3	11	110	19	1
WS/SW SK									
DM 27x18	8601200010	Yellow/black	1.06x0.70	1.06x0.70	15/3	11	110	17	1
GE/SW SK									
DM 27x18	8601200011	Silver/black	1.06x0.70	1.06x0.70	15/3	11	110	18	1
SI/SW SK									
DM 27x18	86505259	Siemens silver/black	1.06x0.70	1.06x0.70	15/3	11	110	70	1
SSI/SW SK									
DM 29x8	86501244	Silver/black	1.14x0.31	1.14x0.31	17/1	9	207	S76	1
SI /SW SK									

Component and component location labeling



DM label plate

Type	Order no.	Base color / fill color	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per mat	Software type labels	Pack qty.
DM 30X10 SI/SW SK	8601200006	Silver/black	1.18x0.39	1.18x0.39	17/2	9	162	29	1
DM 30x10 SSI/SW SK	8601200007	Siemens silver/black	1.18x0.39	1.18x0.39	17/2	9	162	29	1
DM 30x15 SI/SW SK	8601200003	Silver/black	1.18x0.59	1.18x0.59	17/2	9	108	R21	1
DM 30x20 SI/SW SK	86505020	Silver/black	1.18x0.78	1.18x0.78	17/3	9	81	S77	1
DM 45x14 WS/SW SK	8601200019	White/black	1.77x0.55	1.77x0.55	25/3	6	78	34	1
DM 45x14 SI/SW SK	8601200032	Silver/black	1.77x0.55	1.77x0.55	25/3	6	78	33	1
DM 60x20 WS/SW SK	86505072	White/black	2.36x0.78	2.36x0.78	34/4	4	36	58A	1
DM 60x20 SSI/SW SK	86505255	Siemens silver/black	2.36x0.78	2.36x0.78	34/4	4	36	S87	1
DM 90x14 WS/SW SK	86501828	White/black	3.54x0.55	3.54x0.55	50/3	3	39	R56	1
DM 95x45 WS/SW SK	8601200020	White/black	3.54x1.77	3.54x1.77	50/9	3	12	82	1
DM 95x45 SI/SW SK	8601200022	Silver/black	3.74x1.77	3.74x1.77	53/9	3	12	37	1
DM 95x45 SSI/SW SK	8601200024	Siemens silver/black	3.74x1.77	3.74x1.77	53/9	3	12	7X	1
DM 120X35 SSI/SW SK	8601200037	Siemens silver/black	4.72x1.37	4.72x1.37	67/7	2	10	R11	1
DM 145x95 WS/SW SK	86501856	White/black	5.70x3.74	5.70x3.74	81/19	2	4	S99	1
DM 300x200 WS/SW SK	86501820	White/black	11.81x7.87	11.81x7.87	167	1	1	083	1
DM 300x200 GE/SW SK	86505089	Yellow/black	11.81x7.87	11.81x7.87	167	1	1	084	1
DM 300x200 SI/SW SK	86501222	Silver/black	11.81x7.87	11.81x7.87	167	1	1	83	1
DM 300x200 SSI/SW SK	86505258	Siemens silver/black	11.81x7.87	11.81x7.87	167	1	1	085	1
Right-angled corners, brushed, self-adhesive									
DM 27X18 SI/SW GEB SK	8601200014	Brushed silver/black	1.06x0.70	1.06x0.70	15/3	11	110	71	1
Rounded corners, self-adhesive									
DM 17x9 WS/SW R SK	8601100041	White/black	0.66x0.35	0.66x0.35	10/2	15	255	77	1
DM 17x9 GE/SW SK	8601200039	Yellow/black	0.66x0.35	0.66x0.35	10/2	15	320	R09	1
DM 17X9 SI/SW R SK	8601100040	Silver/black	0.66x0.35	0.66x0.35	10/2	15	255	3	1





Component and component location labeling

DM label plate

Type	Order no.	Base color / fill color	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per mat	Software type labels	Pack qty.
 DM 18x9 WS/SW R SK	8601100003	White/black	0.70x0.35	0.70x0.35	10/2	14	238	5	1
 DM 18x9 SI/SW R SK	8601100002	Silver/black	0.70x0.35	0.70x0.35	10/2	14	238	4	1
 DM 22x22 WS/SW R SK	8601100025	White/black	0.86x0.86	0.86x0.86	13/4	12	84	8	1
 DM 22x22 SI/SW R SK	8601100016	Silver/black	0.86x0.86	0.86x0.86	13/4	12	84	7	1
 DM 22x22 SSI/SW R SK	8601100027	Siemens silver/black	0.86x0.86	0.86x0.86	13/4	12	84	06	1
 DM 27x8 SI/SW R SK	86501416	Silver/black	1.06x0.31	1.06x0.31	15/1	10	190	10	1
 DM 27x12.5 WS/SW R SK	8601100014	White/black	1.06x0.49	1.06x0.49	15/2	10	130	012	1
 DM 27x12.5 SI/SW R SK	8601100010	Silver/black	1.06x0.49	1.06x0.49	15/2	10	130	15	1
 DM 27x12.5 SSI/SW R SK	8601100031	Siemens silver/black	1.06x0.49	1.06x0.49	15/2	10	130	14	1
 DM 27x18 WS/SW R SK	8601100007	White/black	1.06x0.70	1.06x0.70	15/3	11	90	21	1
 DM 27x18 SI/SW R SK	8601100005	Silver/black	1.06x0.70	1.06x0.70	15/3	10	90	20	1
 DM 27x18 SSI/SW R SK	8601100008	Siemens silver/black	1.06x0.70	1.06x0.70	15/3	10	90	1A	1
 DM 27x19 WS/SW R SK	86502020	White/black	1.06x0.74	1.06x0.74	15/3	10	90	026	1
 DM 27x19 SI/SW R SK	86501422	Silver/black	1.06x0.74	1.06x0.74	15/3	10	90	24	1
 DM 27x27 WS/SW R SK	86502022	White/black	1.06x1.06	1.06x1.06	15/4	10	60	27	1
 DM 27x27 SI/SW R SK	86501424	Silver/black	1.06x1.06	1.06x1.06	15/4	10	60	26	1
 DM 27x27 SSI/SW R SK	86505264	Siemens silver/black	1.06x1.06	1.06x1.06	15/4	10	60	42A	1
 DM 45x19 WS/SW R SK	8601100015	White/black	1.77x0.74	1.77x0.74	25/3	6	54	80	1
 DM 45x19 SI/SW R SK	8601100009	Silver/black	1.77x0.74	1.77x0.74	25/3	6	54	35B	1
 DM 45x19 SSI/SW R SK	8601100035	Siemens silver/black	1.77x0.74	1.77x0.74	25/3	6	54	35A	1
 DM 70x35 WS/SW R SK	8601100013	White/black	2.75x1.37	2.75x1.37	39/5	4	20	81B	1
 DM 70x35 SI/SW R SK	8601100011	Silver/black	2.75x1.37	2.75x1.37	39/5	4	20	36	1
 DM 70x35 SSI/SW R SK	8601100024	Siemens silver/black	2.75x1.37	2.75x1.37	39/5	4	20	R74	1
 DM 120x35 SI/SW R SK	8601100012	Silver/black	4.72x1.37	4.72x1.37	67/7	2	10	R62	1

Component and component location labeling



DM label plate

Type	Order no.	Base color / fill color	Label size inch	Printable area inch	No. of characters/ lines	No. of stems	No. per mat	Software type labels	Pack qty.
Rounded corners, brushed, self-adhesive									
DM 22x22	86505088	Brushed silver/black	0.86x0.86	0.86x0.86	13/4	12	84	61	1
SI/SW GEB. R SK									
DM 27x12.5	8601100029	Brushed silver/black	1.06x0.49	1.06x0.49	15/2	10	130	12	1
SI/SW GEB. R SK									
DM 27x18	8601100006	Brushed silver/black	1.06x0.70	1.06x0.70	15/3	10	90	22	1
SI/SW GEB. R SK									
Right-angled corners, self-adhesive, 1x0.12" (3.2 mm) hole									
DM 27x12.5	8601110000	White/black	1.06x0.49	20x12.5	12/3	10	130	16	1
WS/SW R SK 1x3.2									
Right-angled corners, self-adhesive, 2x0.08" (2.2 mm) hole									
DM 25X10	8601220016	Silver/black	0.98x0.39	0.70x0.39	10/2	11	198	323	1
SI/SW SK 2x2.2									
Right-angled corners, self-adhesive, 2x0.11" (3.0 mm) hole									
DM 30x15	8601120002	White/black	1.18x0.59	0.86x0.59	13/3	9	99	30	1
WS/SW R SK 2x3									
DM 70x35	8601120008	White/black	2.75x1.37	2.44x1.37	35/7	4	20	RJ7	1
WS/SW R SK 2x3									
Further dimensions and colors on request.									
Please ask for our special carbide tools/engraving materials catalog.									

Component and component location labeling



ALU label plate



-40 to +1472 °F / -40 to +800 °C



Aluminum



Single-line and multi-line inscription



Use in electrical systems and installations of all kinds

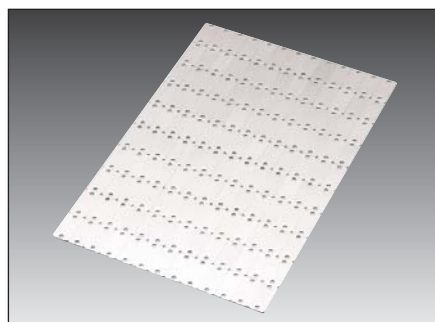
Anodized aluminum for engraving.

Articles bearing the ALU designation are specifically for use on engraving machines.

Mats (7.87x11.81" (200 x 300 mm)) are consecutively populated with label plates.

They are secured by means of a vacuum table.

We recommend using our cooling lubricant during engraving (see engraving systems accessories).



Type	Order no.	Base color / fill color	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per mat	Software type labels	Pack qty.
Right-angled corners, adhesive film, thickness 0.03" (1.0 mm)									
ALU 40x15	86505483	Anodized silver/silver	1.57x0.59	1.57x0.59	23/3	7	91	483	1
SI MS 1.0									
ALU 55x20	86505481	Anodized silver/silver	2.16x0.78	2.16x0.78	31/3	5	50	481	1
SI MS 1.0									
Rounded corners, adhesive film, thickness 0.03" (1.0 mm), 2x0.08" (2.2 mm) hole									
ALU 30x15	86505361	Anodized silver/silver	1.18x0.59	0.78x0.59	12/3	10	130	361	1
SI R MS 1.0 2x2.2									
ALU 30x15	86505466	Anodized black/silver	1.18x0.59	0.78x0.59	12/3	10	130	466	1
SW R MS 1.0 2x2.2									
Right-angled corners, adhesive film, thickness 0.03" (1.0 mm), 2x0.09" (2.5 mm) hole									
ALU 40x15	86505484	Anodized silver/silver	1.57x0.59	1.33x0.59	19/3	7	91	484	1
SI MS 1.0 2x2.5									
ALU 55x20	86505482	Anodized silver/silver	2.16x0.78	1.85x0.59	26/3	5	50	482	1
SI MS 1.0 2x2.5									
Rounded corners, adhesive film, thickness 0.03" (1.0 mm), 2x0.09" (2.5 mm) hole									
ALU 30x8	86505485	Anodized silver/silver	1.18x0.59	0.78x0.59	12/3	10	130	485	1
SI R MS 1.0 2x2.5									
Rounded corners, adhesive film, thickness 0.03" (1.0 mm), 2x0.15" (4.0 mm) hole									
ALU 30x15	86505463	Anodized black/silver	1.18x0.59	0.78x0.59	12/3	10	130	463	1
SW R MS 1.0 2x4.0									
ALU 30x15	86505362	Anodized silver/silver	1.18x0.59	0.78x0.59	12/3	10	130	362	1
SI R MS 1.0 2x4.0									



Component and component location labeling



LABELING OF CONTROL AND SIGNALING UNITS





Labeling of push-buttons and signal lamps

Push-button and signal lamp labeling selection list

ABB

	(MP) label TBT 27x15	(MP) KS 8/26.5 with BT 22.5	DM 27X8 BL/WS R SK	DM 27X8 GE/SW R SK	DM 27X8 R Silver	DM 27X8 RT/WS R SK	DM 27X8 WS/SW R SK	DM 27X18 S/SW R HF	DM 27X18 SS/SW R SK								
BSH-A	X	X	X	X	X	X	X										
BSH-B	X	X						X	X								
BSH-C	X	X	X	X	X	X	X										
BSH-D	X	X						X	X								

Allen Bradley

	(MP) Duomatt (on request)	(MP) label TBT 27x15	(MP) KS 8/26.5 with BT 22.5														
800E 110	X	X	X														
800E 120	X	X	X														
800E 150	X	X	X														
800E 160	X	X	X														
800E 200	X	X	X														

Möller

	(MP) label TBT 27x15	(MP) KS 8/26.5 with BT 22.5	DM 22x10 radius	DM 27X18 APPLE GR./WS SK GRAV 130	DM 27X18 R/W SK	DM 27X18 SS/SW R SK											
M22S-STDD	X	X		X	X												
MSSS-ST	X	X		X	X												
Switch series MRQ 16			X														
Key elements XA/ XB						X											
Key elements XA / XB 27 x 8 = special size!	No adaptation																

Siemens

	(MP) Duomatt (on request)	(MP) label TBT 27x15	(MP) KS 8/26.5 with BT 22.5	DM 27X12.5 S/SW R SK 2X2MM	DM 27X27 S/SW GEB. R SK	ELW 27X12.5R FOR 3SB BUTTON	ELW 27X27R FOR 3SB BUTTON	ELO label 17.5x28									
3SB39 22-OAV		X	X	X		X											
3SB39 22-OAW		X	X	X		X											
3SB39 23-OAV		X	X		X		X										
3SB39 25-OAX	X	X	X					X									
3SB39 42-OAX		X	X	X		X											
3SB39 43-OAX		X	X		X		X										

Labeling of push-buttons and signal lamps



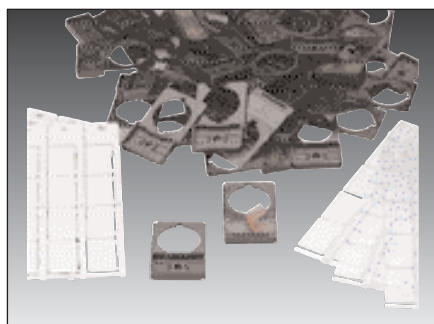
Push-button and signal lamp labeling selection list

Telemechanique	(MP) KS 8/26.5 with BT Harmony ZB4	DM 27X8 BL/WS R SK	DM 27X8 GE/SW R SK	DM 27X8 R Silver	DM 27X8 RT/WS R SK	DM 27X8 WS/SW R SK	DM 27X18 APPLE GR/WS SK GRAY 130	DM 27X18 R/W SK								
ZBZ 32	X	X	X	X	X	X										
ZBZ 33	X						X	X								
ZBZ 34	X	X	X	X	X	X										
ZBZ 35	X						X	X								

Small quantities supplied if required.

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

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



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Labeling of control and signaling units

BZS labeling system



-40 to +176 °F / -40 to +80 °C



PVC

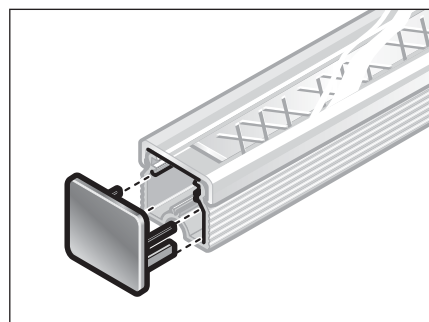
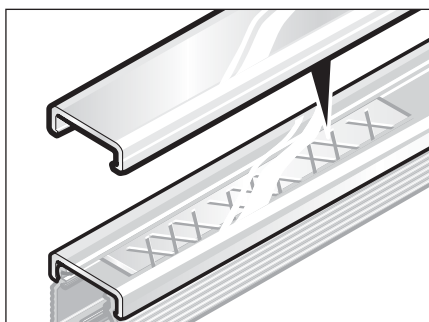
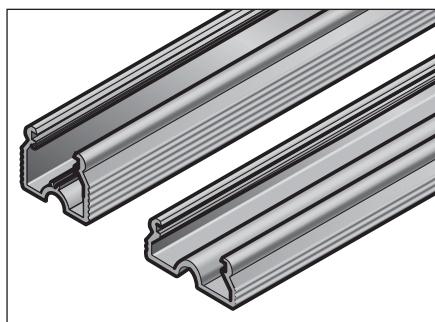


VO



Mounting rail for component location labeling

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



Type	Order no.	Color	Length inch/mm	Width inch/mm	For label:	Pack qty.
Label holder for mounting label plates						
➤ BZS 9 500 mm label holder	86301222	Black	19.68/500	0.35/9	KS 9/...	100
➤ BZS 9 600 mm label holder	86301224	Black	23.62/600	0.35/9	KS 9/...	100
➤ BZS 9 1000 mm label holder	86301226	Black	39.37/1,000	0.35/9	KS 9/...	100
➤ BZS 9 1300 mm label holder	86301228	Black	51.18/1,300	0.35/9	KS 9/...	100
➤ BZS 15 500 mm label holder	86301262	Black	19.68/500	0.59/15	KS 15/...	100
➤ BZS 15 600 mm label holder	86301264	Black	23.62/600	0.59/15	KS 15/...	100
➤ BZS 15 1000 mm label holder	86301266	Black	39.37/1,000	0.59/15	KS 15/...	100
➤ BZS 15 1300 mm label holder	86301268	Black	51.18/1,300	0.59/15	KS 15/...	100
Transparent cover for label holder						
➤ BZS 9 500 mm cover	86301242	Transparent	19.68/500	0.59/0.35/9		100
➤ BZS 9 600 mm cover	86301244	Transparent	23.62/600	0.59/0.35/9		100
➤ BZS 9 1000 mm cover	86301246	Transparent	39.37/1,000	0.59/0.35/9		100
➤ BZS 9 1300 mm cover	86301248	Transparent	51.18/1,300	0.59/0.35/9		100
➤ BZS 15 500 mm cover	86301282	Transparent	19.68/500	0.59/15		100
➤ BZS 15 600 mm cover	86301284	Transparent	23.62/600	15		100
➤ BZS 15 1000 mm cover	86301286	Transparent	39.37/1,000	15		100
➤ BZS 15 1300 mm cover	86301288	Transparent	51.18/1,300	15		100
End cap for label holder						
➤ End cap BZS 9	86301219	Black				80
➤ End cap BZS 15	86301259	Black				80

Labeling of control and signaling units



KS label plate (multi-line)



-40 to +284 °F / -40 to +140 °C



PC



V0



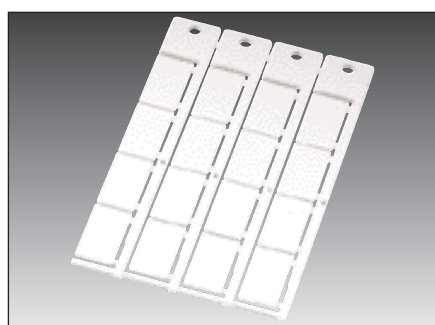
Single-line and multi-line inscription



Use in electrical systems and installations of all kinds

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

The KS label plate is inserted in base holders BT, BTK or BZS.



Type	Order no.	Color	RAL equiv.	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per frame	Software type	Pack qty.
Label length 1.04" (26.5 mm) for BT 22.5 and BT Harmony ZB4										
KS 8/26.5	86361060	White	9016	0.31x1.04	0.31x1.04	14/2	4	16	71	480
Label length 1.06" (27 mm) for BT 15/27, BTK 15/27 and BTK 22.5										
KS 15/27	86361010	White	9016	0.59x1.06	0.59x1.06	15/3	4	16	85	480
KS 15/27	86361012	Yellow	1018	0.59x1.06	0.59x1.06	15/3	4	16	85G	480
Label length 1.92" (49 mm) for BT 15/49 and BTK 15/49										
KS 15/49	86361014	White	9016	0.59x1.92	0.59x1.92	27/3	4	8	86	240
KS 15/49	86361015	Yellow	1018	0.59x1.92	0.59x1.92	27/3	4	8	86G	240
Label length 2.63" (67 mm) for BT 15/67 and BTK 15/67										
KS 15/67	86361016	White	9016	0.59x2.63	0.59x2.63	37/3	4	4	87	120
KS 15/67	86361017	Yellow	1018	0.59x2.63	0.59x2.63	37/3	4	4	87G	120

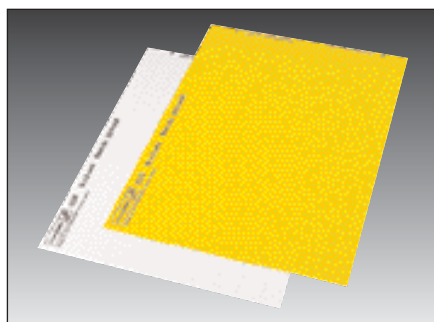
For matching base plates see plotter system accessories

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 -40 to +284 °F / -40 to +140 °C

Use in electrical systems and installations of all kinds

The labels are arranged for DIN A4 laser printing. The sheet can be divided into 2x DIN A5 if required.





Labeling of control and signaling units

DM label plate



-40 to +176 °F / -20 to +80 °C



Acrylate polymer



Single-line and multi-line inscription



Use in electrical systems and installations of all kinds

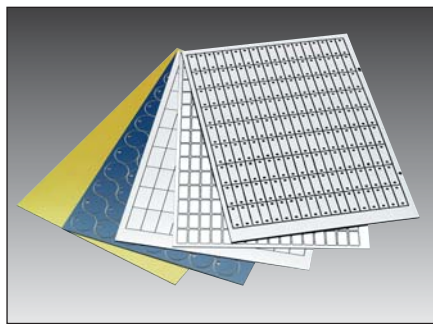
Two-ply plastic material for inscribing or engraving.

Articles bearing the DM designation have exact locating holes for plotters.

The mat size is 7.87x11.81" (200 x 300 mm).

Further dimensions and colors on request.

Please ask for our special carbide tools/engraving materials catalog.



Type	Order no.	Base color / fill color	Label size inch	Printable area inch	No. of characters/lines	No. of stems	No. per mat	Software type labels	Pack qty.
Rounded corners, self-adhesive, thickness 0.03" (0.8 mm)									
DM° 22x22	8601100016	Silver/black	0.86x0.86	0.86x0.86	/				1
SI/SW R SK									
DM° 22x22	8601100027	Siemens silver/black	0.86x0.86	0.86x0.86	/				1
SSI/SW R SK									
DM° 22x22	8601100025	White/black	0.86x0.86	0.86x0.86	/				1
WS/SW R SK									
DM° 22x22	8601100028	Yellow/black	0.86x0.86	0.86x0.86	/				1
GE/SW R SK									
DM 27x8	86505272	Blue/white	1.06x0.31	1.06x0.31	/				1
BL/WS R SK									
DM 27x8	86505271	Yellow/black	1.06x0.31	1.06x0.31	/				1
GE/SW R SK									
DM 27x8	86505270	Red/white	1.06x0.31	1.06x0.31	/				1
RT/WS R SK									
DM 27x8	86505280	White/black	1.06x0.31	1.06x0.31	/				1
WS/SW R SK									
DM° 27x12.5	8601100010	Silver/black	1.06x0.49	1.06x0.49	/				1
SI/SW R SK									
DM° 27x12.5	8601100031	Siemens silver/black	1.06x0.49	1.06x0.49	/				1
SSI/SW R SK									
DM° 27x12.5	8601100014	White/black	1.06x0.49	1.06x0.49	/				1
WS/SW R SK									
DM 27x15	86505358	Siemens silver/black	1.06x0.59	1.06x0.59	/				1
SSI/SW R SK									

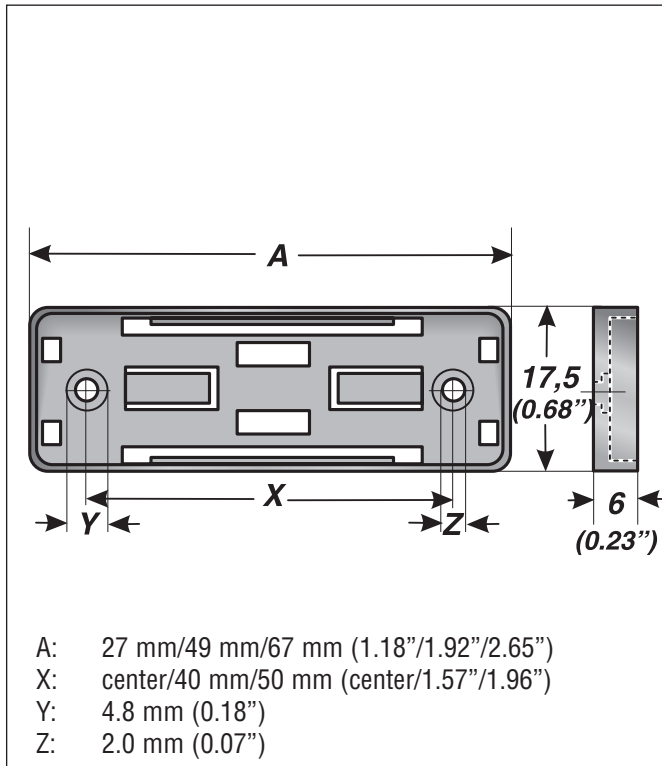
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DM label plate

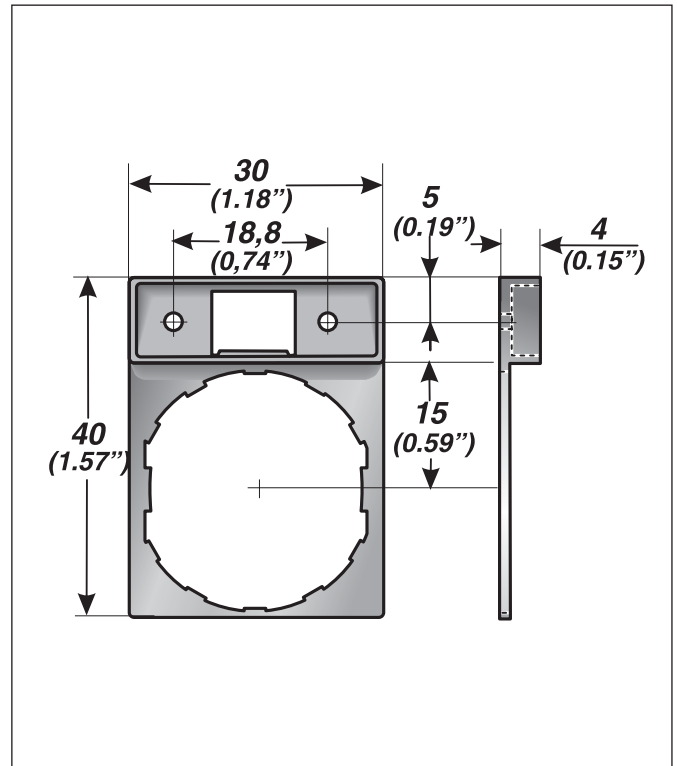


Labeling of control and signaling units

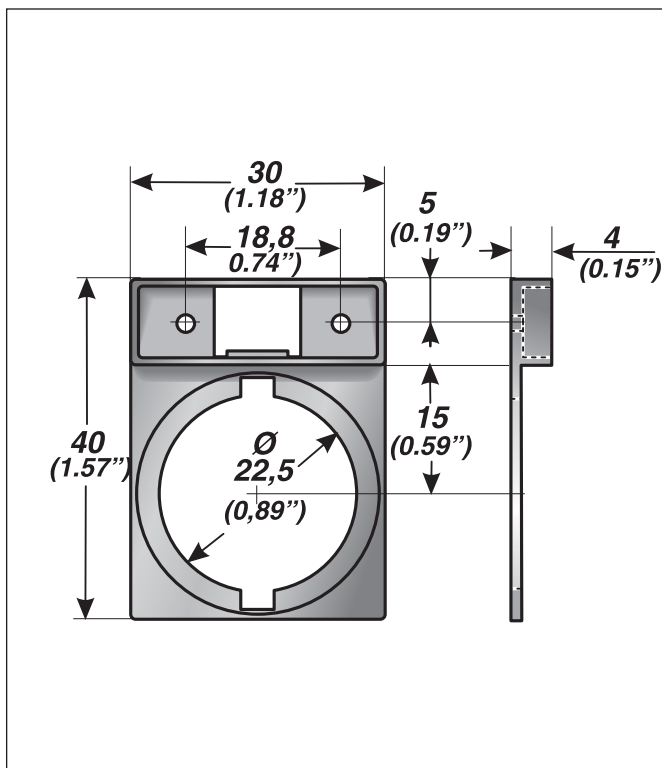
Dimensions



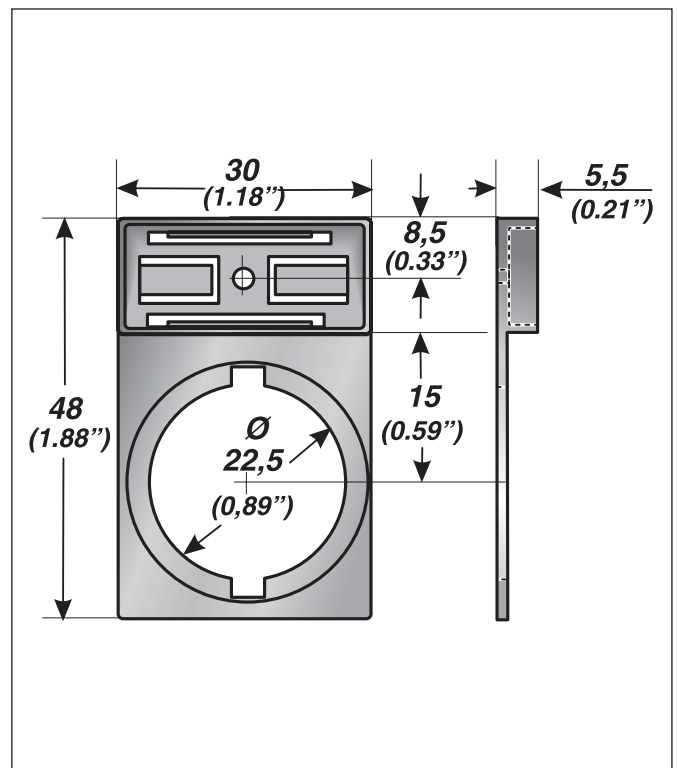
BT/BTK 15/xx



BT Harmony ZB4

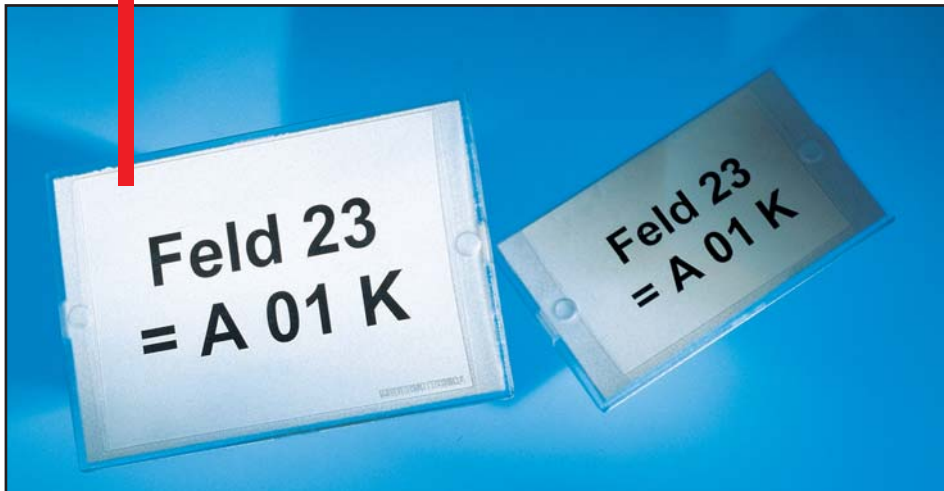


BT 22.5 small printable area



BTK 22.5 large printable area

SYSTEM LABELING





System labeling

Type plate



-40 to +140 °F / -40 to +60 °C



PVC



VO



Standard label holder



Use in electrical systems and installations of all kinds

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



TS

Type	Order no.	Color	Size mm	Printable area mm	No. of characters/lines	No. per sheet / base plate	Software type	Pack qty.
Complete set								
comprising base holder and cover								
TS 75x50*	86464020	White/transparent	3.74x2.16	2.95x1.96	41/10	1	301	20
TS 95x75*	86464010	White/transparent	4.33x2.95	3.74x2.75	52/14	1	300	20
Base holder								
KS 75x50	86464022	White	3.74x2.16	2.95x1.96	41/10	1	301	20
KS 95x75	86464012	White	4.33x2.95	3.74x2.75	52/14	1	300	20
Cover with magnifying function								
TA 75x50	86464024	Transparent	3.39x2.36					10
TA 95x75	86464014	Transparent	4.52x3.14					10
Film for marking and insertion								
ELW 75x50*	86561218	White	3.74x2.16	2.95x1.96	41/10	4	301	80
ELW 95x75*	86561216	White	4.33x2.95	3.74x2.75	52/14	4	300	80

* For matching base plates see plotter system accessories

DM label plate



-40 to +176 °F / -20 to +80 °C



Material: Acrylate polymer



Single-line and multi-line inscription



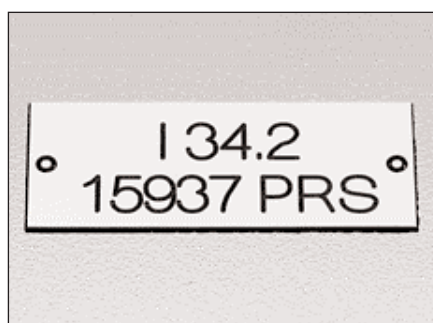
Use in electrical systems and installations of all kinds

Two-ply plastic material for inscribing or engraving.
Articles bearing the DM designation have exact locating holes for plotters.

The mat size is 7.87x11.81" (200 x 300 mm).

Further dimensions and colors on request.

Please ask for our special carbide tools/engraving materials catalog.



Type	Order no.	Base color / fill color	Label size mm	Printable area mm	No. of characters/lines	No. of stems	No. per mat	Software type labels	Pack qty.
Right-angled corners, self-adhesive									
DM 120X35	8601200037	Siemens silver/black	4.72x1.37	4.72x1.37	67/7	2	10	R11	1
SSI/SW SK									
DM 145x95	86501856	White/black	5.70x3.74	5.70x3.74	81/19	2	4	S99	1
WS/SW SK									
DM 300x200	86501820	White/black	11.81x7.87	11.81x7.87	167	1	1	083	1
WS/SW SK									
DM 300x200	86505089	Yellow/black	11.81x7.87	11.81x7.87	167	1	1	084	1
GE/SW SK									
DM 300x200	86501222	Silver/black	11.81x7.87	11.81x7.87	167	1	1	83	1
SI/SW SK									
DM 300x200	86505258	Siemens silver/black	11.81x7.87	11.81x7.87	167	1	1	085	1
SSI/SW SK									
Rounded corners, self-adhesive									
DM 70x35	8601100013	White/black	2.75x1.37	2.75x1.37	39/5	4	20	81B	1
WS/SW R SK									
DM 70x35	8601100011	Silver/black	2.75x1.37	2.75x1.37	39/5	4	20	36	1
SI/SW R SK									
DM 70x35	8601100024	Siemens silver/black	2.75x1.37	2.75x1.37	39/5	4	20	R74	1
SSI/SW R SK									
DM 120X35	8601100012	Silver/black	4.72x1.37	4.72x1.37	67/7	2	10	R62	1
SI/SW R SK									
Right-angled corners, self-adhesive, 2x0.11" (3.0 mm) holes									
DM 70x35	8601120008	White/black	2.75x1.37	2.44x1.37	35/7	4	20	RJ7	1
WS/SW R SK 2x3									

SOFTWARE





Software

ACS Professional software

Compatible operating systems

- Windows 95
- Windows 98
- Windows NT4 (Service Pack 5 or above)
- Windows ME
- Windows 2000
- Windows XP

Hardware requirements

- Min. hardware configuration - Win 95/Win 98/NT
 - CPU: Pentium 2/233 MHz
 - RAM: 32 MB/64 MB
 - Video: 2 MB on-board
 - Resolution: 800 x 600 min. 256 colors
 - CD-ROM drive
 - 30 MB of free hard disk space

Installation options

- Single-user version
- Network version

Software specifications

The ultimate labeling software for all identification and designation requirements.

A software user interface for all Windows-compatible output devices.

This open labeling software can be used to control a wide and diverse range of Windows-based terminal equipment, such as plotter systems, engraving machines, printers and automatic lasers.

Our hardware constitutes a universal range to satisfy all demands -

from simple ON SITE re-labeling using the PORTY 300 right through to inscriptions using a plotter and ink, or marking labels using laser, ink-jet or other printers.

For engraving the choice ranges from the handy GRAV 10 to the CAM series for universal use.

In the service industries or for mass users the product range is rounded off by a diode-pumped automatic laser with magazine technology.

Computer-generated labeling allows the user to prepare quick, universal, and flexible labeling on-site, which may be repeated or modified at anytime. The labeling software allows manual data input via the keyboard or a data import from the various CAD/CAE systems. A user-definable interface allows the import of various formats, such as ASCII, Excel, dBase, or Access data.

The Murrplastik labeling software is an easy, self-explanatory database designed to meet all labeling requirements. All the functions are user-driven and backed up by online support.

ACS Professional software



Project Explorer

ACS Project Explorer has been included in the ACS shortcuts toolbar (Workspace) in order to simplify access to projects on the computer or the network. Project Explorer is subdivided into two areas:

My computer and Favorites. My computer is the disk drive and directory overview while Favorites contains selected drives/folders with projects.

Project Explorer Workspace is firmly integrated and can be extended to include additional user-defined functions (see Online Help ACS shortcuts)



ACS Unicode

ACS Unicode [Unicode = standardized ISO system) enables all the existing characters in the world to be displayed and processed at the workstation (Greek, Cyrillic, Arabic, Hebrew and Thai alphabets, and the various Japanese (Katakana, Hiragana), Chinese and Korean scripts (Hangul), providing it supports the Windows 2000 or XP operating system. The international language pack must be activated in the control panel. ACS Unicode supports the import of Unicode-generated files via the clipboard and import interfaces.



CAD-Import

CAD-Import is a user-definable interface for data import from the various different file formats.

When external data has to be imported quickly and conveniently into ACS Professional, there are several available options.



Online Help

Knowledge is power!

For this reason context-sensitive Online Help is available.

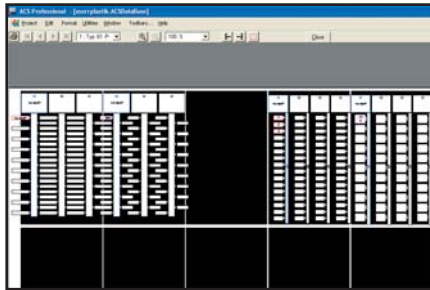
By pressing the F1 button the help topic currently required will be displayed.

The help topics can also be selected directly.



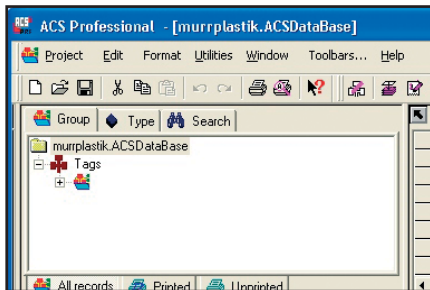
Software

ACS Professional software



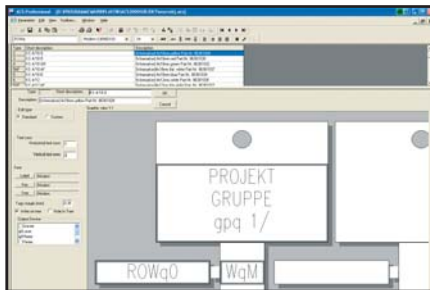
Multiframe

Multiframe or a project on a roll!
Multiframe enables the inscription to be displayed and output on different label types in one or more plotting areas.



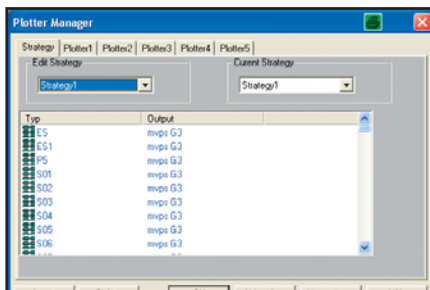
Workflow

Workflow at data record level which supports ACS software.
There may be a change of shift or the weekend may intervene, but the person in charge can see at a glance whether data records have already been printed or not.



Parameter Editor

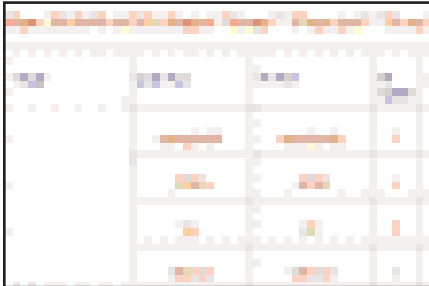
Open DB or the Parameter Editor!
Any software is only as good as its customization (adaptation to specific user).
Our database supports all labeling requirements irrespective of the output device.



Plotter Manager

Intelligent types = types who know where they have to go!
A tool which automatically sends the inscriptions (type) being generated to the required output device. A strategy designer allows the user to save various strategies.

ACS Professional software



Export

Export for experts!

Open the labeling data for further tasks (order data, statistics, calculations, merged data, etc.). The Export function in the Services menu can be used to save project data in an HTML or text file for reuse at a later date.



Software

ACS Professional software



From the planning stage right through to the inscription on the label...

Plotting, printing, engraving and laser engraving with one software package!

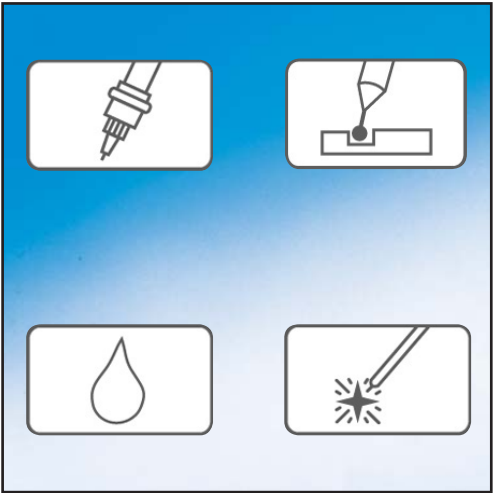
The universal workstation at local or network level.

Electric, mechanical, pneumatic or hydraulic labeling tailored to requirements.

- ☛ One software package for company-wide labeling of electric, pneumatic, hydraulic and mechanical components.
- ☛ The ACS Professional software combines the labeling technologies of plotting, printing, engraving and laser engraving in one interface.
- ☛ The software supports actuation of all Windows-based output devices.
- ☛ One central labeling workstation keeps procurement, training and maintenance costs to a minimum.

Type	Order no.	Pack qty.
Single-user license	86601060	1
Upgrade license	86601064	1
Transfer version	86601062	
Scope of delivery:		
Software and manual on CD-ROM		
For operating systems Win 95/98; NT 4.0; ME; WIN2000; XP		
Network licenses on request		
Demo software available on request or for download at http://www.murrplastik.com		
ACS Services	86901010	1
Installation and instruction	86901012	1

OVERVIEW OF OUTPUT SYSTEMS

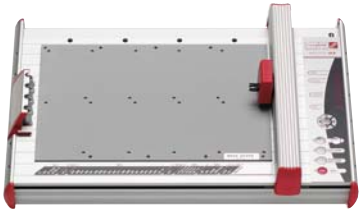




Output systems

System description

Plotting system



MVPS-G3

Fields of application

The universally proven all-rounder based on plotter technology.

Advantages

- High configuration capacity
- Suitable for virtually all materials
- Outstanding labeling quality
- For mobile and stationary use
- Short set-up times for a diverse range of materials
- Easy handling

System description

The flatbed plotter is a universal system for labeling all electrical, pneumatic, hydraulic, and mechanical components for all types of systems. A well-structured range makes it capable of accommodating all Murrplastik labeling materials. Labels are inscribed by applying etching ink to the labeling materials.

Brief specifications

Capacity: Max. 1200 label plates
Dimensions: 25.98x17.32x4.92" (660x440x125 mm)
Weight: Approx. 17.64 lbs (8 kg)

!NEW!



MVPS-G3-T

Fields of application

The universally proven all-rounder based on plotter technology.

Designed specifically for mobile use.

Advantages

- On-site labeling
- Stows in aluminum case with integrated rollers
- Lightweight and easy to transport
- Can be taken aboard aircraft
- Three labeling materials
label plates/sheet labels/Duomatt
- Outstanding labeling quality
- Short set-up times for various materials
- Easy handling

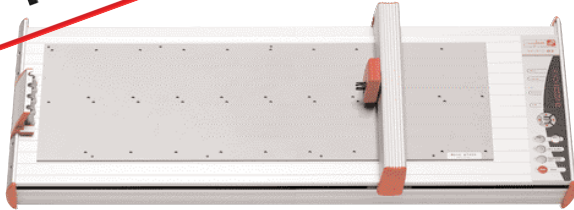
System description

The flatbed plotter is a universal system for labeling all electrical, pneumatic, hydraulic and mechanical components for all types of systems. A well-structured range makes it capable of accommodating all Murrplastik labeling materials. Labels are inscribed by applying etching ink to the labeling materials.

Brief specifications

Capacity: Max. 480 label plates
Dimensions: 16.92x17.32x4.92" (430x440x125 mm)
Weight: Approx. 29.54 lbs (13.4 kg) incl. trolley and case

!NEW!



MVPS-G3-XXL

Fields of application

The universally proven all-rounder based on plotter technology.

Designed for high labeling requirements.

Advantages

- Takes 20 base plates
- Very high configuration capacity
- Three labeling materials
label plates/sheet labels/Duomatt
- Outstanding labeling quality
- For mobile and stationary use
- Short set-up times for various materials
- Easy handling

System description

The flatbed plotter is a universal system for labeling all electrical, pneumatic, hydraulic and mechanical components for all types of systems. A well-structured range makes it capable of accommodating all Murrplastik labeling materials. Labels are inscribed by applying etching ink to the labeling materials.

Brief specifications

Capacity: Max. 2400 label plates
Dimensions: 42.59x17.32x4.92" (1082x440x125 mm)
Weight: Approx. 30.87 lbs (14 kg)



Porty

Fields of application

A small portable labeling system with integrated rechargeable battery and software for mobile use.

Advantages

- Mains-independent
- Own integrated software
- RS232 interface
- Cost-effective
- Ideal for on-site use
- Easy handling

System description

The portable system for mobile or short-term use.

The rechargeable battery allows labels to be generated at voltage-independent locations. The system is supplied with a complete adaptor kit of base plates to accommodate virtually all ACS label plates. The system is delivered in a user-friendly carrying case.

The Porty may be controlled via the internal software or the ACS labeling software.

Brief specifications

Capacity: Max. 120 label plates
Dimensions: 9.05x15.74x2.55" (230x400x65 mm)
Weight: Approx. 16.53 lbs (7.5 kg) incl. case



Output systems

System description

Engraving system



Grav 10

Fields of application

The entry-level model for engraving

Advantages

- Large working area
- Easy handling
- Rate and speed regulation on machine itself
- Depth control
- Extraction unit on graver for chip removal
- Range of accessories

System description

The beginner in engraving work!

Optimized for engraving two-ply plastic materials. For its price the Grav provides a large working area for consecutive processes.

Brief specifications

Working area: 12x8" (305x205 mm)
Dimensions: 20.19x19.33x8.26" (513x491x210 mm)
Weight: Approx. 34.17 lbs (15.5 kg)



CAM

Fields of application

The professional line for engraving and milling work.

Advantages

- The system is tailored to the customer's specific requirements. It meets every need.
- Open housing technology
- Large quantities
- High gripping capacity
- Ball screw drive
- High repeat accuracy
- Maintenance-friendly

System description

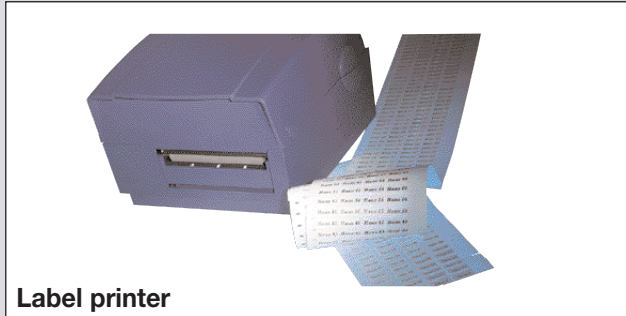
The professional in engraving and milling work!

The machine can be tailored to requirements in terms of workspace and features. There are various different positioning alternatives and additional options.

Brief specifications

Working area up to 29.5x33.5" (750x850 mm)
Dimensions and weight depend on individual model and features

Printing system



Fields of application

Custom-designed thermal transfer printer for labels.

Advantages

- Cost-effective
- High print speed
- Line-oriented working mode
- Bar code-capable
- Material up to 108 mm
- High printing quality of 208 dpi

System description

The ideal printer for adhesive labels!

Our label product range includes all kinds of labeling materials for the full range of output equipment. The quality of thermal transfer depends on the compatibility of the labeling material, thermal transfer ribbon and printing system.

Brief specifications

Dimensions: 8.77x10.07x6.18" (223x256x157 mm)
Weight: Approx. 7.065 lbs (3.2 kg)

Laser system



Fields of application

Outstanding quality teamed with supreme speed. Murrplastik offers this method as a service.

Advantages

- Top quality
- Crisp typeface
- Supreme operating speed
- Service facility

System description

Our laser systems are at your disposal in our service department!

If you require labeling materials in large quantities or for highly abrasive applications then this kind of labeling is ideal. You may enter your data by e-mail directly into our server.

Brief specifications

Magazine feed
Capacity depends on type of label plate
Approx. 2000-12600 plates per magazine

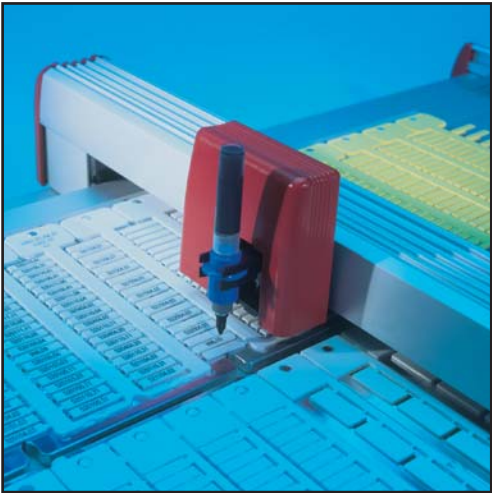


Output systems

Selection

	Porty	Plotter	GRAV	CAM	Laser	Printer
	The portable unit for the assembly crew or small jobs. Battery or mains operation for site independence. The internal software enables operation without ACS labeling software.	The all-round system... Adaptations allow all materials to be used and processed.	Engraved labels made easy. Low-cost system for engraving.	Engraving and milling system for professional use.	Fastest method.	We supply the label material for your printer... Existing Windows printers of all kinds are integrated in the label system.
Special features	Max. configuration 57 plates	Max. configuration 2,400 plates	Ideal for engraving on Duomatt / Alumatt	Ideal for engraving, processing of all materials, optimized for simple milling work		Label inscription for all printing methods; dot-matrix, ink-jet, laser, and thermal transfer
Inscription means	Ink	Ink	Engraving	Engraving	Diode laser	Dot-matrix/ink-jet/laser/thermal transfer
Quantity	1	1111	11	1111	111111	11111
Software		yes	yes	yes	yes	yes
Murrplastik service	no	yes	yes	yes	yes	yes
Materials						
Plates	yes	yes	no	no	yes	no
Sheet labels	yes	yes	no	no	yes	yes
Duomatt	no	yes	yes	yes	yes	no
Alumatt	no	yes	yes	yes	yes	no
Alu on plate	no	yes	yes	yes	yes	no
Foreign materials						
e.g. SPS insertion strip; terminal material; layered materials; labeling materials	no	yes	yes	Yes	no	yes
Applications						
Single wire labeling	Excellent	Excellent	Possible	Possible	Excellent	Possible
Terminal labeling	Excellent	Excellent	Possible	Possible	Excellent	Impossible
Component labeling	Excellent	Excellent	Possible	Possible	Excellent	Possible
Component location labeling	Excellent	Excellent	Possible	Possible	Excellent	Possible
Cable labeling	Excellent	Excellent	Excellent	Excellent	Excellent	Possible
Control and signal unit labeling	Good	Good	Excellent	Excellent	Excellent	Possible
System labeling	Good	Good	Excellent	Excellent	Excellent	Impossible
Duomatt labeling	Good	Good	Excellent	Excellent	Good	Impossible
Alumatt labeling	Possible	Possible	Good	Good	Good	Impossible
Alu on plate labeling	Possible	Possible	Good	Good	Good	Impossible
Label marking	Good	Good	Impossible	Impossible	Impossible	Possible

PLOTTER SYSTEMS





MVPS-G3 plotter system

The MVPS-G3 is a new labeling system capable of writing with speed, reliability and quality on all labeling materials used to identify and mark electrical, pneumatic and mechanical components. The ACS software can be relied upon to transmit the data accurately in all kinds of systems. The MVPS-G3 plotter was developed in response to customer requirements. As such, it combines the following capabilities designed to make operations significantly easier.

- Top-quality typeface from the first to the last label
- Pen station prevents pens from drying out
- High configuration capacity - up to 1200 labels
- For mobile and stationary use
- Short set-up times for various materials
- Part plotting of materials possible



Plotter system

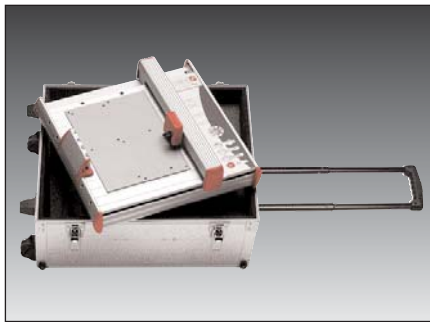
MVPS-G3-T plotter system

Fully functional and portable!

Do you value mobility and quality in your labeling?

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 case, establish the power supply, 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 extensive range of plotter accessories for the MVPS-G3 can also be used for this mobile unit. The strong plus points of the MVPS-G3-T are its mobility, stability and high labeling quality.

Advantages at a glance:

- On-site labeling
- Integrated transport rollers
- Can be taken aboard aircraft
- Pen station prevents pens from drying out
- 3 labeling materials:
label plates, sheet labels,
Duomatt
- Part plotting of materials possible
- Top-quality typeface from the first
to the last label

Type	Order no.	Pack qty.
▶ MVPS-G3-T	86622016	1
Technical data		
Plotter type: Flatbed plotter		
Plotting area: max. 11.6x8.3" (295 mm x 210 mm)		
Plotter speed: max. 15.75 in/s (40 cm/s)		
Pen station: max. 4 pens with double sealing		
Ports: Parallel (Centronics), USB Level 1.1		
Size: 16.92x17.32x4.92" (430x440x125 mm)		
Total: approx. 29.54 lbs (13.4 kg) incl. trolley and case		
Power unit: Input voltage: 100-240 V AC 50-60 Hz		
Power unit: Input current: 0.3 A max. at 220 V~		
Drive: Two-phase stepping motor		
Included in delivery: one parallel connecting cable, power unit and manual		
For the inscription of ACS label plates, sheet labels and engraving materials the corresponding base plates/holders are required.		





MVPS-G3-XXL plotter system

Quantity AND quality!

Do you value mobility and quality in your labeling?

The new MVPS-G3 XXL plotter has been specially designed for “all-in” labeling. 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 extensive range of plotter accessories for the MVPS-G3 can also be used for this long unit.



The strong plus points of the MVPS-G3-XXL are its quantity, stability and high labeling quality.

Advantages at a glance:

- Takes 20 base plates
- Top-quality typeface from the first to the last label
- Pen station prevents pens from drying out
- High configuration capacity - up to 2400 labels
- On-site labeling
- Short set-up times for various materials
- Part plotting of materials possible



Plotter system

Porty P300 and accessories

Porty P300, the compact and convenient labeling 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 the battery 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 continuously operated independently of the mains for three hours.

Special inscriptions or external data can be transmitted to the Porty via the serial interface with the ACS labeling software.

The integrated software guides the user quickly to the marked label plate.

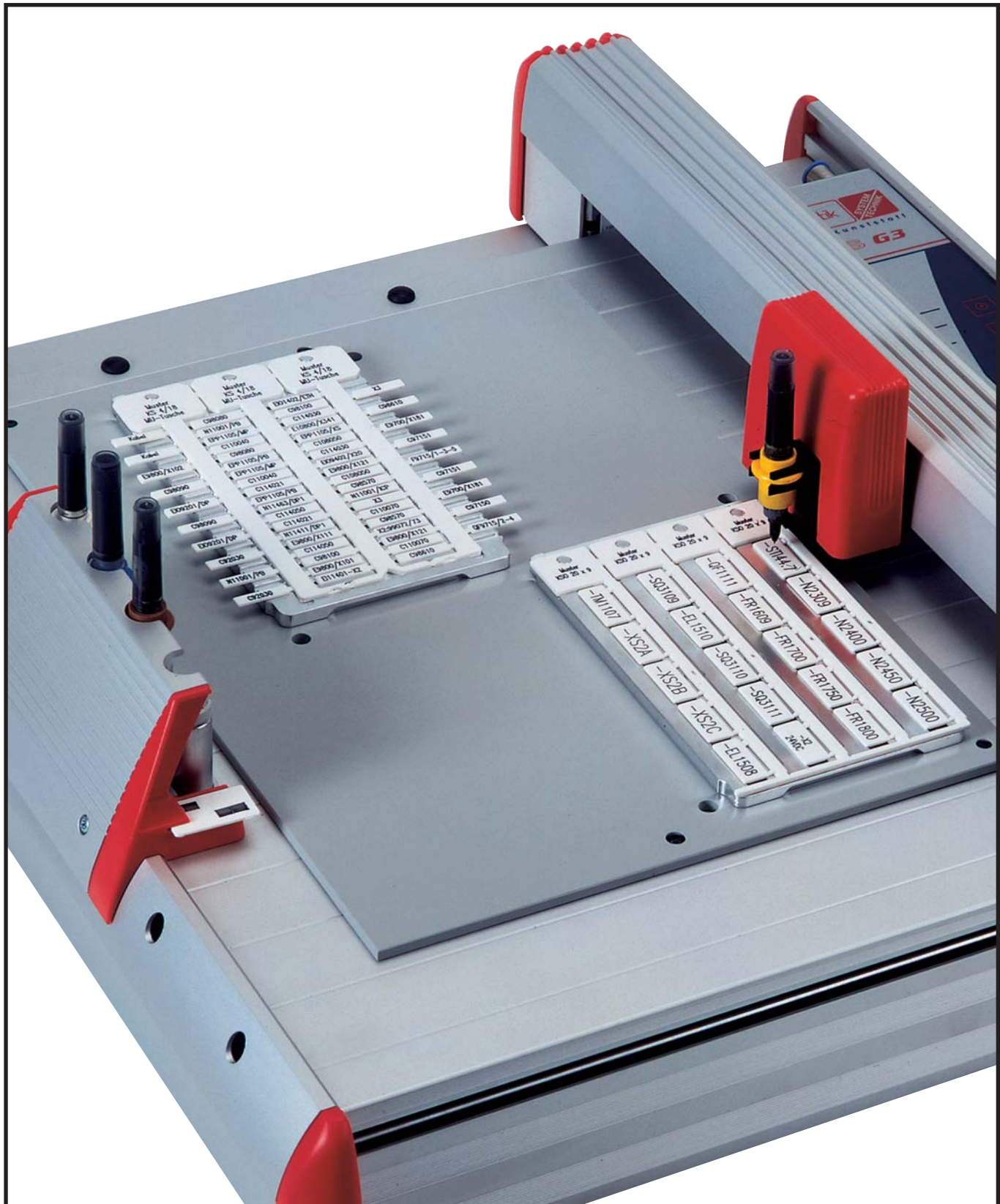


Type	Order no.	Pack qty.
Porty P300 E	86621080	1
Porty P300 E excl. accessories	86621081	1
Technical data:		
Operating area: 7.7x1.8" (195 x 45 mm)		
Operating conditions: Temp. 59 to 86 °F (15 to 30 °C), humidity max. 90 %		
Dimensions: LxWxH = 9.05x15.74x2.55" (230x400x65 mm) incl. battery		
Weight incl. battery: 16.53 lbs (7.5 kg)		
Power unit: Input voltage 100-240 V AC 50-60 Hz		
Scope of delivery: 1 carrying case, 1 Porty P300; 1 rechargeable battery; 1 power unit		
1 retaining adapter for mp-labels		
1 retaining adapter universal; software module		
P300 rechargeable battery	86621086	1
Technical data: 14 NiCd cells		
Rated voltage 16.8 Volt		
MP base plate	86621088	1
serves to retain the standard labeling materials		
Basic plate, neutral	86621090	1
serves to retain the special labeling materials		
Software module	86621092	1





Plotter system



PLOTTER SYSTEMS ACCESSORIES





Plotter system accessories

Base plates selection table

Label type	Base plate for labels									Base plate for Duomatt and sheet labels		No base plate required
	GP1	GP3	GP4	GP4E	GP5	GRPD/10	GRPD/18	GPKND	GPME 5/10	GPPED	GPPED-T	
ABB			X									
Alumatt										X		
BS 4/5/6												X
Duomatt										X		
EDG										X		
ELW/ELG/ELPT										X		
ES/ESL										X		
KAB (4 stems)			X									
KAB (5 stems)					X							
KBT										X		
KDE			X									
KES			X									
KET				X								
KLK			X									
KMO			X									
KMR			X									
KNDT								X				
KNDW								X				
KPF			X									
KPX			X									
KPX-ZS (4 stems)			X									
KPX-ZS (5 stems)					X							
KS (1 or 3 stems)		X										
KS (4 stems)			X									
KS 5/10									X			
KSA			X									
KSE x/10						X						
KSE x/18							X					
KSF (4 stems)			X									
KSF 10x8												X
KSI			X									
KSK			X									
KSL			X									
KSN A/B/C												X
KSO			X									
KSO 70x9					X							
KSS			X									
KSZ	X											
KTE			X									
KWI			X									
SKS			X									
TBT										X		
TK	X											
TS	X											
WGO (4 stems)			X									
WGO (5 stems)					X							

Plotter system accessories

Base plates

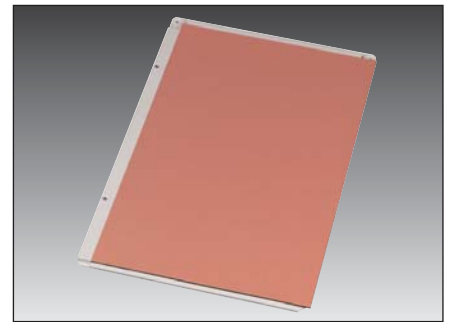
Mounting adaptors for the various different labeling materials used on the plotter systems. The adaptors can be used selectively on any plotter system (see selection table).



GP3



GP4



GPPED...

[illegible]



Plotter system accessories

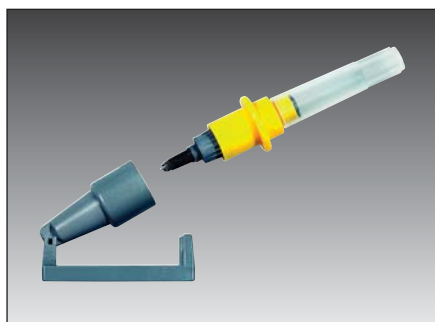
Special marker

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

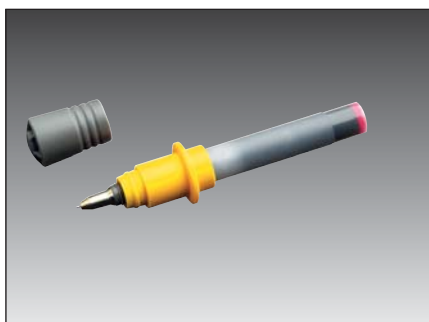
Non-refillable pen: Robust action. The pen is activated by assembling and locking the two parts together.

Hand pen: Hand pen with etching ink for field service.

Label pen: Special ink pen for textile labels (e.g. EDG type). Can be refilled with cartridges (1 ml) or ink from a bottle (30 ml).



Refillable pen



Non-refillable pen



Hand pen

Type	Order no.	Color code	Line thickness inch/mm	Pack qty.
Refillable pens				
Ink pen 0.25	86621454	White	0.009/0.25	1
Ink pen 0.35	86621456	Yellow	0.013/0.35	1
Ink pen 0.50	86621458	Brown	0.019/0.50	1
Ink pen 0.70	86621460	Blue	0.027/0.70	1
Ink pen 1.00	86621462	Orange	0.039/1.00	1
Non-refillable pens				
Non-refillable ink pen 0.25	86621455	White	0.009/0.25	1
Non-refillable ink pen 0.35	86621457	Yellow	0.013/0.35	1
Hand pens				
Hand pen 0.35	86621656	Yellow	0.013/0.35	1
Ink pen for textile labels				
Label pen 0.35	86621470	Purple	0.013/0.35	1
HP pens for Roland and Sekonik plotters only				
HP pen without point *	86621420	-		1
Pen with point 0.25 *	86621422	-	0.009/0.25	1
Pen with point 0.35 *	86621424	-	0.013/0.35	1
* Discontinued model				



Plotter system accessories

Ink, cleaner, cleaning unit

Ink: Etching ink for UV-resistant inscription on label plates. The outstanding feature of the ink is its high resistance to various different media.

Cleaner: The MU cleaner must be used to clean the ink pens.

Pressure ball: Only to be used for the pen after a refill or a prolonged period of disuse. The pen is reactivated by negative pressure.

Cleaning set: Cleaning system designed for the ink pen system.



Ink



Cleaning fluid

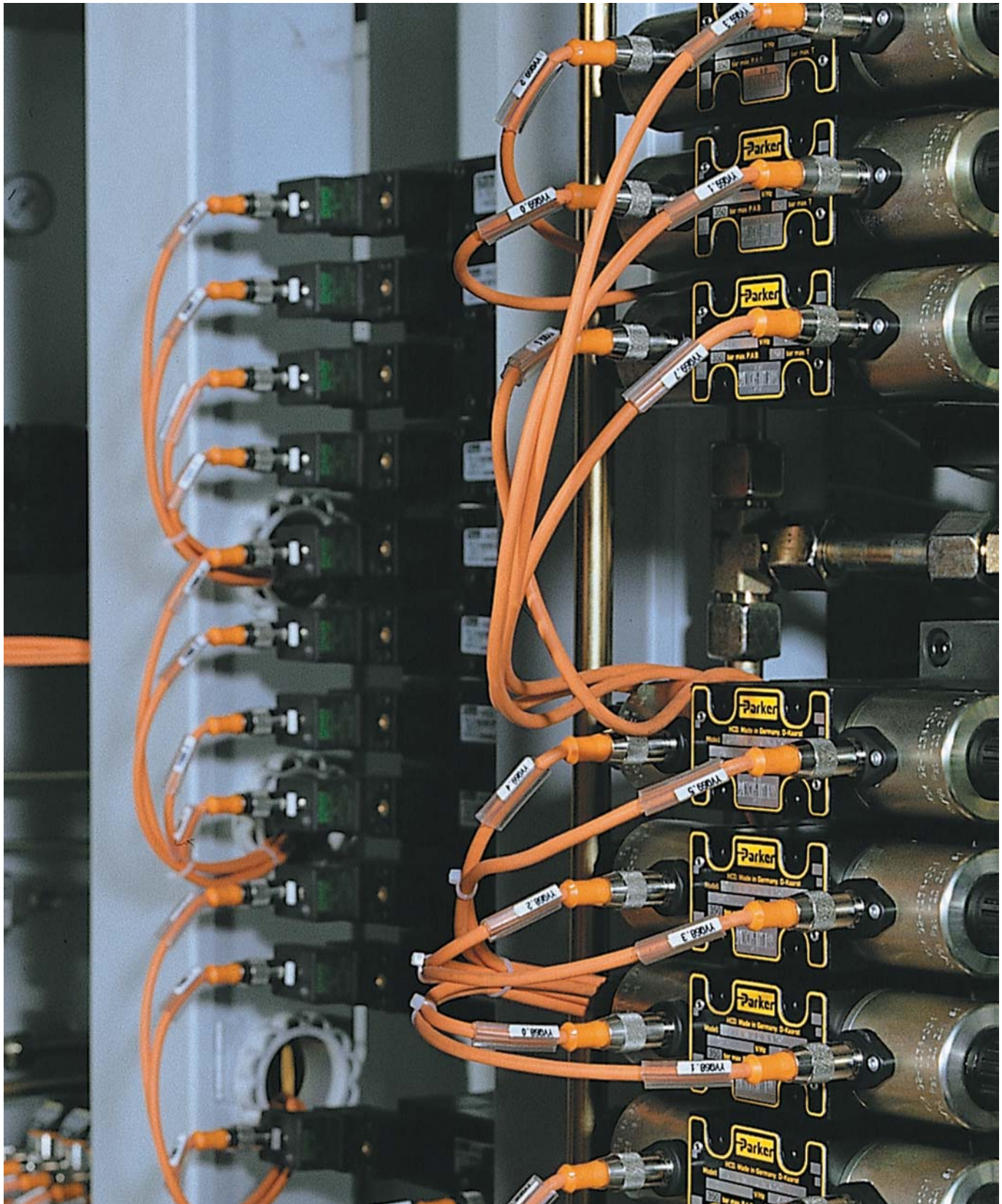


Cleaning appliances

[illegible]



Plotter system accessories



THERMAL TRANSFER PRINTER AND ACCESSORIES





Thermal transfer printer

Thermal transfer printer and accessories

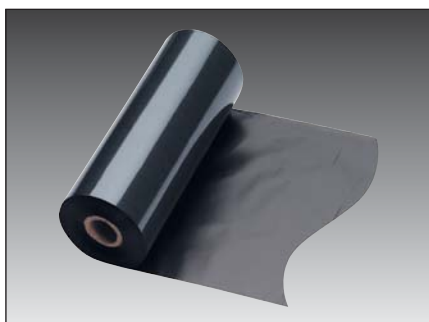
The THT1024X thermal transfer printer is a Windows-based output device for inscribing direct thermal and thermal transfer labels. The adjustable label sensors allow the printing system to process different kinds of labeling materials, including continuous and fanfold materials.

The internal typefaces enable a high printing speed. In terms of its functions the printer is perfectly compatible with the ACS labeling software, but can be used with other Windows programs.

Further printers on request.



THT

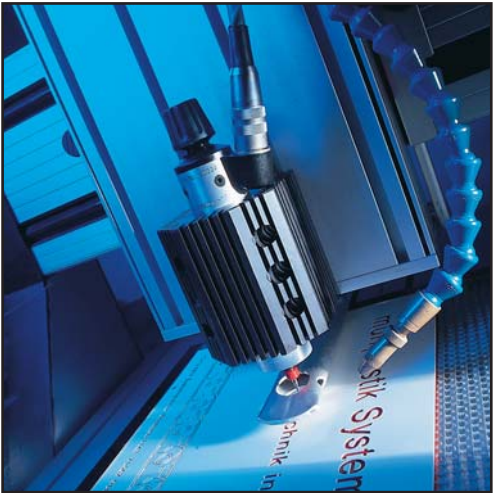
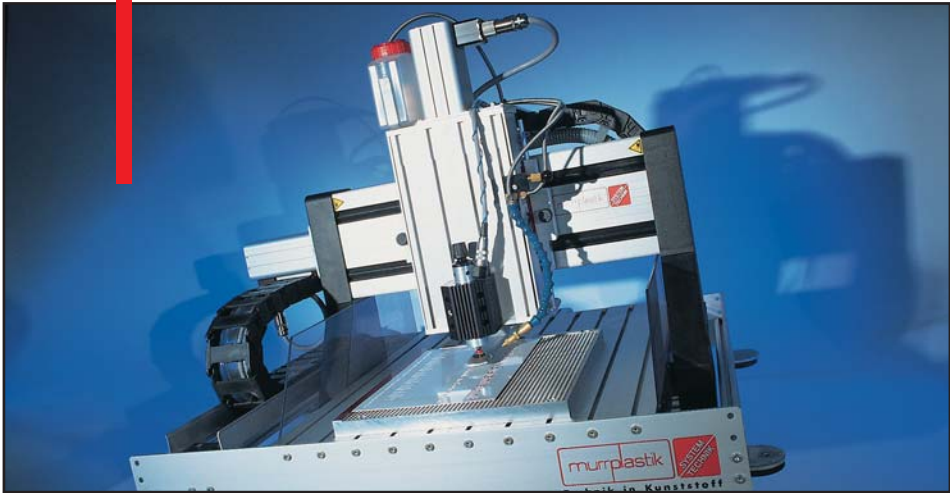


MP7AX7

Type	Order no.	Pack qty.
THT1024X	86661010	1
Technical data:		
Resolution: 203 dpi (8 dots/mm)/300 dpi (11.8 dots/mm)		
Inscription width: 4.1" (104 mm)		
Material width: 4.65" (118 mm)		
Inscription technique: Thermal transfer and direct thermal transfer		
Labeling speed: 1 to 2 in/sec. (25.38 to 51 mm/sec.)		
Data buffer: 512 kB		
Dimensions: 8.78x10.08x6.18" (223 x 256 x 157 mm)		
Weight: Approx. 7.06 lbs (3.2 kg)		
Power supply: Separate power unit 230 V AC/19 V AC		
Ports: Centronics parallel, serial (RS-232) baud rate adjustable via DIP switch 1,200 to 19,200 baud		
No. of fonts: 10		
Bar code: Code 39, code 128, UPC, EAN, code bar		
Postnet, 25 Interleave		
2D bar code: Maxi code, PDF-147		
Approvals: FCC, Class A VDE, Class B CE approved		
Accessories/consumables:		
Thermal transfer ribbon MP7AX7	86661012	1



ENGRAVING SYSTEMS





Grav engraving machine

GRAV 10 A

Type	Order no.	Pack qty.
Grav 10 A complete	86641008	1
Technical data Operating conditions: Temp. 59 to 104 °F (15 to 40 °C), humidity max. 80 % Euro power unit: 230 V, 50 60 Hz; Euro plug DIN 49464 Working area: max. 12x8" (305 x 205 mm) Resolution: 0.01 mm/step Operating speed: X and Y-axis, infinitely variable to max. 118 in/min (3 m/min). Spindle speed: 5,000 - 10,000 rpm Interface: Parallel (Centronics), serial (RS-232C) Memory capacity: 2 KB (upgradable to 2 MB) Overall dimensions: 20.2x19.33x8.54" (513 x 491 x 217 mm) Weight: Approx. 34.18 lbs (15.5 kg)		
Scope of delivery of Grav 10 A: 1 power plug, 1 parallel connecting cable, 1 suction adaptor, CAMM Scribe WIN 95 driver, 1 mounting base, various tools, 3 transportation locks, 1 HSS graver 1 adhesive plate and 2 gravers (0.01 and 0.02 " [0.3 mm and 0.5 mm])		

Engraving systems

CAM engraving machine

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



ONLY FOR EUROPE

CAM...

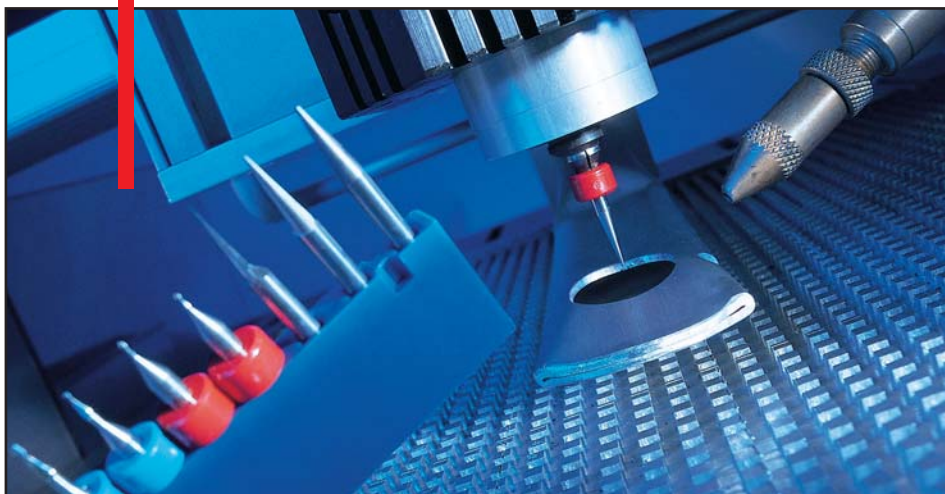
Type	Order no.	Pack qty.
CAM 100 complete system	86701020	1
Positioning range X/Y 13x11.4" (330 x 290 mm)	Stroke 2.95" (75 mm)	
Clamping surface 19.7x23.6" (500 x 600 mm)		
CAM 200 complete system	86701022	1
Positioning range X/Y 21.26x19.7" (540 x 500 mm)	Stroke 2.95" (75 mm)	
Clamping surface 19.7x33.5" (750 x 850 mm)		
Mechanics		
- Surface-milled, face accuracy < 0.05 mm		
- x/y/z infeeds free from backlash with step motor drive		
- 3 ball screw drives 0.63x0.19" (16 x 5 mm) with flange bearings		
- Rubber lip cover with Teflon coating		
- Repeat accuracy +/- 1/3.93 in (1/100 mm)		
- 3 end and reference switches, accuracy < 1/3.93 in (1/100 mm)		
- Cable drag chains		
- Set of cables for step motors and computer connection		
- Maintenance-friendly design		
Electronics		
- 19" table housing		
- 230 V power supply		
- Connection to computer via serial interface		
- Extended HPGL instruction set		
- Triaxial interpolation		
- Interpolation of circles and sectors		





CAM engraving machine

ENGRAVING SYSTEMS ACCESSORIES





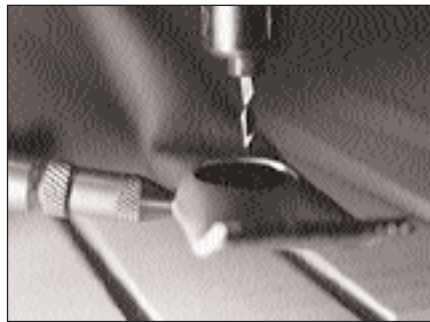
Engraving systems accessories

CAM engraving machine accessories

Murrplastik can also supply any of the engraving machine components as individual parts. As such, you can retrofit or upgrade existing systems according to your requirements.



Spindle SF 170 E



Suction appliance



Cooling/spraying appliance

Type	Order no.	Pack qty.
Spindle SF 170 E	86701212	1
- High speeds, seamless regulation of speed range - High speed stability, even under stress - Very quiet - High load factor combined with low weight - Precision bearing - Computerized spindle monitoring and control		
Technical data		
- Nominal output 170 W - Max. 60,000 rpm - Clamping range 0.03 - 0.15" (1 - 4 mm) - Manual tool exchange with quick clamping feature - Software-controlled frequency converter		
Scope of delivery		
- SF spindle incl. motor cable - SF converter module for CNC450 - Clamping chuck 0.11" (3 mm) - Spindle holder with cooling fins		
Suction appliance (for all CAM models)	86701810	1
incl. mounting fixtures and flexible suction tube (without vacuum cleaner)		
Cooling/spraying appliance (for all CAM models)	86701812	1
incl. mounting fixtures, flexible pressure tubing and fluid hose		



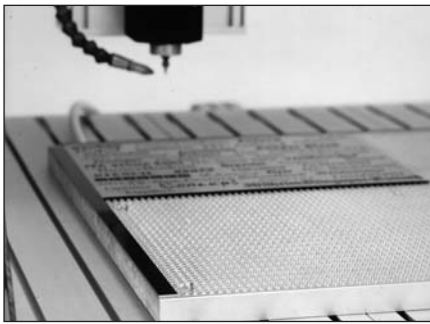
Engraving systems accessories

CAM engraving machine accessories

Clamping as if by magic!

We can supply a vacuum grid table matching the engraving machine model for the specific purpose of clamping our Duomatt, Alumatt and aluminum mats or for level workpieces.

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



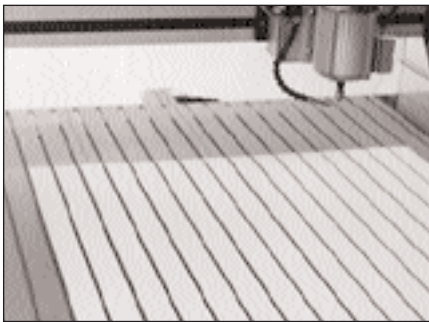
Vacuum table

Type	Order no.	Pack qty.
CAM 100 vacuum table	86701610	1
Technical data		
- Size approx. 19.97x11.41" (355 x 290 mm)		
- Grid spacing 0.11" (3 mm)		
Scope of delivery		
- Aluminum vacuum grid plate		
- Chip vacuum pump incl. accessories		
- Sealing cord		
CAM 200 vacuum table	86701612	1
Technical data		
- Size approx. 21.25x19.09" (540 x 485 mm)		
- Grid spacing 0.11" (3 mm)		
Scope of delivery		
- Aluminum vacuum grid plate		
- Chip vacuum pump incl. accessories		
- Sealing cord		
Electric vacuum pump instead of chip vacuum pump (surcharge)	86901614	1
Replacement sealing cord	86721018	1

Engraving systems accessories

CAM engraving machine accessories

There are various extras available to stabilize the engraving machine and lower the noise level.



Polystyrene base



Subframe

Type	Order no.	Pack qty.
CAM 100 polystyrene base	86721014	1
- Polystyrene strip		
CAM 200 polystyrene base	86721016	1
- Polystyrene strip		
T-slot set	86721212	1
- 3 different tensioning elements for direct clamping of workpieces via the CAM system T-slots		
Scope of delivery		
- 4 clamps		
- 2 manual vices		
- 6 stop rails of different lengths (2.95, 6.88 and 9.84" [75, 175, and 250 mm])		
CAM 100 subframe	86701410	1
CAM 200 subframe	86701412	1
Scope of delivery		
- Aluminum profiles, angles and stands		
CAM 200 cover	86701414	1
Scope of delivery		
- Aluminum profiles with connectors, tinted Plexiglas, cable entry at rear.		



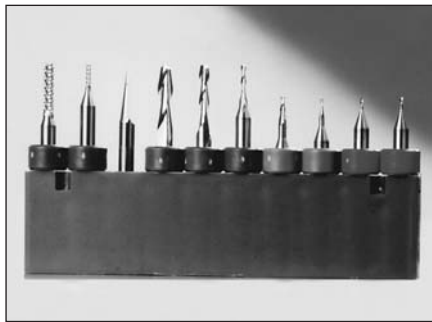
Engraving systems accessories

CAM engraving machine accessories

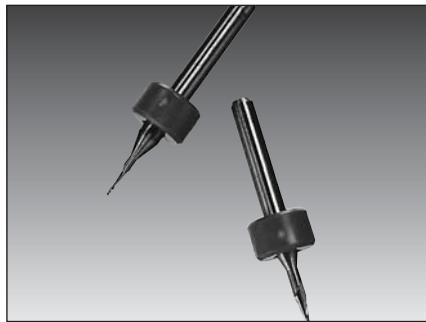
Tools for virtually all conceivable fields of application. The tools are made of carbide and are characterized by their long service life. All tools are fitted with a stop for rapid tool change.

Stop rings are color coded with line thicknesses printed on.

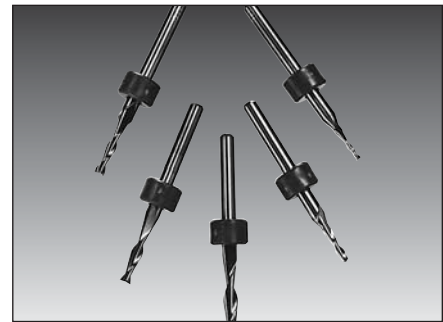
(Special tools on request)



Set of tools



Rub-out



Double-fluted cutter

Type	Order no.	Color Stop ring	Pack
10-piece set of tools	86721410		1
consisting of:			
Double-fluted cutter (0.07"/0.11" [2 mm/3 mm])			
Rub-out cutter (0.01"/0.03" [0.5 mm/1 mm])			
Insulation engraver (2 pcs.)			
Graver 15° (0.007"/0.015/0.027" [0.2 mm/0.4 mm/0.7 mm])			
Graver 60° (0.019 [0.5 mm])			
Isolation engraver	86721412	Red	1
Rub-out cutter 0.019" (0.5 mm)	86721414	Blue	1
Rub-out cutter 0.039" (1.0 mm)	86721416	Blue	1
Double-fluted cutter 0.078" (2 mm)	86721420	Green	1
Double-fluted cutter 0.102" (2.6 mm)	86721421	Green	1
Double-fluted cutter 0.118" (3 mm)	86721422	Green	1
Graver 15° d = 0.007" (0.2 mm)	86721424	White	1
Graver 15° d = 0.011" (0.3 mm)	86721426	White	1
Graver 15° d = 0.015" (0.4 mm)	86721428	White	1
Graver 15° d = 0.019" (0.5 mm)	86721430	White	1
Graver 15° d = 0.027" (0.7 mm)	86721432	White	1

Engraving systems accessories

CAM engraving machine accessories

[illegible]



Engraving systems accessories

DMG label plate



-4 to +176 °F / -20 to +80 °C



Acrylate polymer



Single-line and multi-line inscription



Use in electrical systems and installations of all kinds

Two-ply plastic material for inscribing or engraving.

Articles bearing the DMG designation are specially made for use on engraving machines. They are secured by means of a vacuum table or an adhesive plate (see engraving systems accessories).

Further dimensions and colors on request.

Please ask for our special carbide tools/engraving materials catalog.



Type	Order no.	Base color/fill color	Plate size mm	Pack qty.
Self-adhesive, plate size 11.81x7.87" (300 x 200 mm), thickness 0.03" (0.8 mm)				
DMG° 300 x 200 GE/SW SK	8602200031	Yellow/black	11.81x7.87"	1
DMG° 300 x 200 RT/WS SK	8602200035	Red/white	11.81x7.87"	1
DMG° 300 x 200 SI/SW SK	8602200032	Silver/black	11.81x7.87"	1
DMG° 300 x 200 SSI/SW SK	8602200033	Siemens silver/black	11.81x7.87"	1
DMG° 300 x 00 SW/WS SK	8602200037	Black/white	11.81x7.87"	1
DMG° 300 x 200 WS/SW SK	8602200039	White/black	11.81x7.87"	1
Self-adhesive, plate size 11.81x7.87" (300 x 200 mm), thickness 0.05" (1.5 mm)				
DMG° 300 x 200 SW/WS SK MS1.5	8602200038	Black/white	11.81x7.87"	1
Adhesive film, plate size 11.81x7.87" (300 x 200 mm), thickness 0.03" (0.8 mm)				
DMG° 300 x 200 SSI/SW HF	8602206035	Siemens silver/black	11.81x7.87"	1
DMG° 300 x 200 WS/SW HF	8602206033	White/black	11.81x7.87"	1
Adhesive film, plate size 11.81x7.87" (300 x 200 mm), thickness 0.05" (1.5 mm)				
DMG° 300 x 200 RT/WS HF MS1.5	8602206030	Red/white	11.81x7.87"	1
DMG° 300 x 200 SI/SW HF MS1.5	8602206031	Silver/black	11.81x7.87"	1
DMG° 300 x 200 SSI/SW HF MS1.5	8602206032	Siemens silver/black	11.81x7.87"	1
DMG° 300 x 200 WS/SW HF MS1.5	8602206034	White/black	11.81x7.87"	1

Engraving systems accessories

DMG label plate

Type	Order no.	Base color/fill color	Plate size mm	Pack qty.
Self-adhesive, plate size 24x24" (610 x 610 mm), thickness 0.03" (0.8 mm)				
DMG° 610 x 610 BL/WS SK	8602200006	Blue/white	24x24"	1
DMG° 610 x 610 GE/RT SK	8602200010	Yellow/red	24x24"	1
DMG° 610 x 610 GE/SW SK	8602200003	Yellow/black	24x24"	1
DMG° 610 x 610 GR/WS SK	8602200008	Gray/white	24x24"	1
DMG° 610 x 610 OR/WS SK	8602200009	Orange/white	24x24"	1
DMG° 610 x 610 RT/WS SK	8602200007	Red/white	24x24"	1
DMG° 610 x 610 SI/SW SK	8602200001	Silver/black	24x24"	1
DMG° 610 x 610 SSI/SW SK	8602200000	Siemens silver/black	24x24"	1
DMG° 610 x 610 SW/WS SK	8602200005	Black/white	24x24"	1
DMG° 610 x 610 WS/SW SK	8602200002	White/black	24x24"	1
Self-adhesive, brushed surface, plate size 24x24" (610 x 610 mm), thickness 0.03" (0.8 mm)				
DMG° 610 x 610 SI/SW GEB. SK	8602200004	Silver/black	24x24"	1
Self-adhesive, plate size 24x24" (610 x 610 mm), thickness 0.05" (1.5 mm)				
DMG° 610 x 610 GE/SW SK MS1.5	8602200018	Yellow/black	24x24"	1
DMG° 610 x 610 SI/SW SK MS1.5	8602200016	Silver/black	24x24"	1
DMG° 610 x 610 WS/SW SK MS1.5	8602200017	White/black	24x24"	1
Self-adhesive, brushed surface, plate size 24x24" (610 x 610 mm), thickness 0.05" (1.5 mm)				
DMG° 610 x 610 SI/SW GEB. SK MS1.5	8602200019	Silver/black	24x24"	1
Special adhesive film for rough surfaces (hammer enamel), plate size 24x24" (610 x 610 mm), thickness 0.03" (0.8 mm)				
DMG° 610 x 610 BL/WS SKS	8602202006	Blue/white	24x24"	1
DMG° 610 x 610 GE/RT SKS	8602202010	Yellow/red	24x24"	1
DMG° 610 x 610 GE/SW SKS	8602202003	Yellow/black	24x24"	1
DMG° 610 x 610 GR/WS SKS	8602202008	Gray/white	24x24"	1
DMG° 610 x 610 OR/WS SKS	8602202009	Orange/white	24x24"	1
DMG° 610 x 610 RT/WS SKS	8602202007	Red/white	24x24"	1
DMG° 610 x 610 SI/SW SKS	8602202001	Silver/black	24x24"	1
DMG° 610 x 610 SSI/SW SKS	8602202000	Siemens silver/black	24x24"	1
DMG° 610 x 610 SW/WS SKS	8602202005	Black/white	24x24"	1
DMG° 610 x 610 WS/SW SKS	8602202002	White/black	24x24"	1
Special adhesive film for rough surfaces (hammer enamel), brushed surface, plate size 24x24" (610 x 610 mm), thickness 0.03" (0.8 mm)				
DMG° 610 x 610 SI/SW GEB. SKS	8602202004	Silver/black	24x24"	1
Adhesive film, plate size 24x24" (610 x 610 mm), thickness 0.03" (0.8 mm)				
DMG° 610 x 610 BL/WS HF	8602206006	Blue/white	24x24"	1
DMG° 610 x 610 GE/RT HF	8602206010	Yellow/red	24x24"	1
DMG° 610 x 610 GE/SW HF	8602206003	Yellow/black	24x24"	1
DMG° 610 x 610 GR/WS HF	8602206008	Gray/white	24x24"	1
DMG° 610 x 610 OR/WS HF	8602206009	Orange/white	24x24"	1
DMG° 610 x 610 RT/WS HF	8602206007	Red/white	24x24"	1
DMG° 610 x 610 SI/SW HF	8602206001	Silver/black	24x24"	1
DMG° 610 x 610 SSI/SW HF	8602206000	Siemens silver/black	24x24"	1
DMG° 610 x 610 SW/WS HF	8602206005	Black/white	24x24"	1
DMG° 610 x 610 WS/SW HF	8602206002	White/black	24x24"	1





Type	Order no.	Base color/fill color	Plate size mm	Pack qty.
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Adhesive film, brushed surface, plate size 24x24" 610 x 610 mm, thickness 0.03" (0.8 mm)				
DMG° 610 x 610 SI/SW GEB. HF	8602206004	Silver/black	24x24"	1
Adhesive film, plate size 24x24" (610 x 610 mm), thickness 0.05" (1.5 mm)				
DMG° 610 x 610 SI/SW HF MS1.5	8602206016	Silver/black	24x24"	1
DMG° 610 x 610 WS/SW HF MS1.5	8602206017	White/black	24x24"	1

ACCESSORIES





Holder frame/metal tongue/extractor hook

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



HK

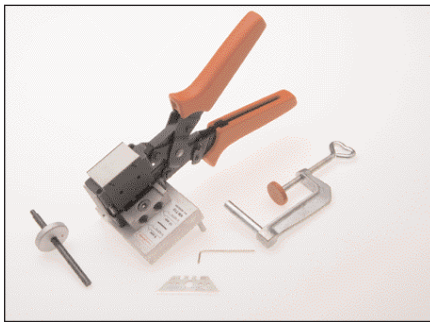
168 Murrplastik Systems Inc. • 2367 North Penn Road • Suite 200 • Hatfield, PA 19440 • ☎ 215-822-7625 • 📠 215- 822-7626 • cablemgmt@murrplastik.com • www.murrplastik.com

Accessories

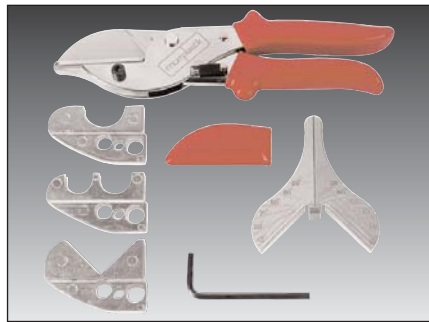
ACS function tool

Multi-purpose tool KM-T10 for making label sleeves. Designed for KM and KMH sleeve material in 0.35 and 0.59" (9 and 15 mm) widths.

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



KM-T10



BZS T20

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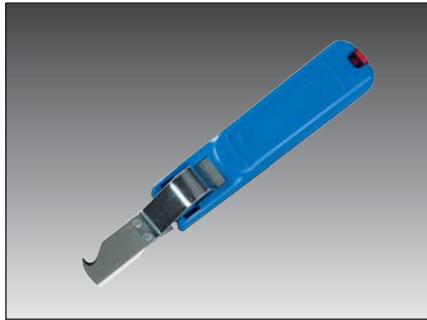


Accessories

Tools



KS 1



KM



UAZ



KBW 1K



KKBW



KBW/M

Type	Order no.	Pack qty.
Cable shears		
KS 1	87661016 Approx. length 6.9" (175 mm)	1
Cable stripping knife		
KM	87661018 Approx. length 6.7" (170 mm)	1
with adjustable internal knife		
Universal stripping tool		
UAZ	87661020 Approx. length 7.5" (190 mm)	1
for wire cross sections of 0.5 to 2.5 mm ²		
Adjustable length of insulation		
Adjustable to the thickness of insulation		
with integrated automatic cutter for conductors to 2.5 mm ²		
Cable tie tool for plastic cable ties		
KBW 1K	87661012 Approx. length 6.7" (170 mm)	1
with adjustable automatic shears		
suitable for cable ties of up to 6 mm width		
KKBW	87669094 Approx. length 7.5" (190 mm)	1
Cable tools suitable for cable ties KKB 28/KB 110		
Cable tie tool for metal cable ties		
KBW/M	87669090 Approx. length 7.9" (200 mm)	1
Cable tie tool designed for KBM cable ties		
with adjustable automatic shears		

KB / KKB / KBM cable ties



-13 to +185 °F / -25 to +85 °C



Polyamide 6.6

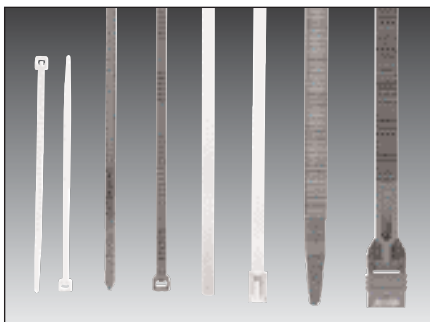


Self-extinguishing



Oil- and mould-resistant

Cable ties are a reliable method for the economic bundling and fastening of cables, cable harnesses, tubes, hoses and other components. The black cable ties are suitable for outdoor applications. The cable tie KKB 28 is equipped with a special locking mechanism and is especially suitable for maximum strain relief.



KB.../KBM...

[illegible]

Power cable tie with special lock

KKB 28	87661258	7.08/180	0.3/18,0	100
Matching assembly tool KKBW				

Metal cable tie

KBM	87661014	7.87/200	0.16/4,3	100
Matching assembly tool KBW/M				



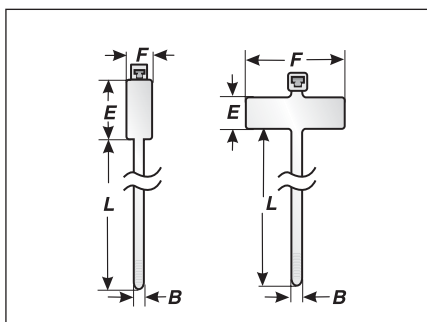
BF cable ties



Cable tie with title block. For use with ink pens or permanent waterproof markers.

BF20 (left) title block lengthways along cable

BF45 (right) title block across cable



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SH screw-type holder

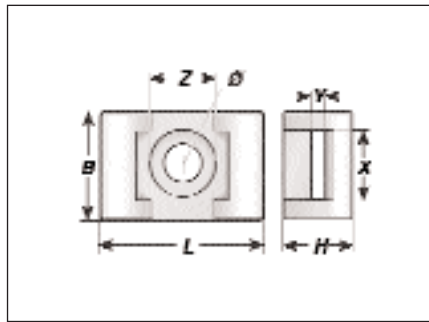
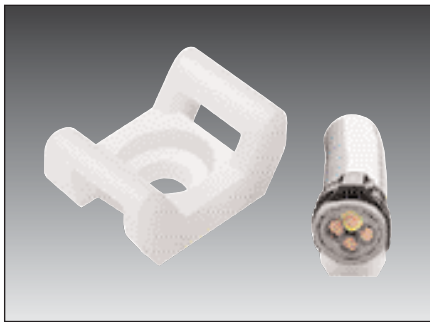


-13 to +185 °F / -25 to +85 °C



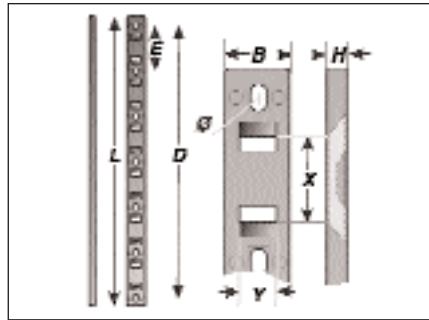
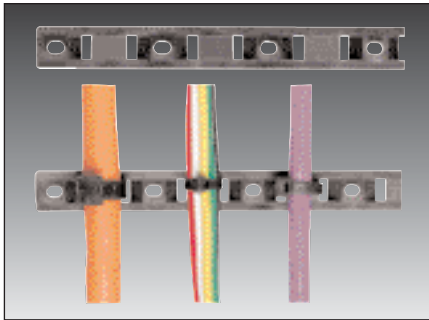
Polyamide

The screwed holder SH is used to fix individual cables cost-effectively. It can be screwed or riveted to any surface.

[illegible]



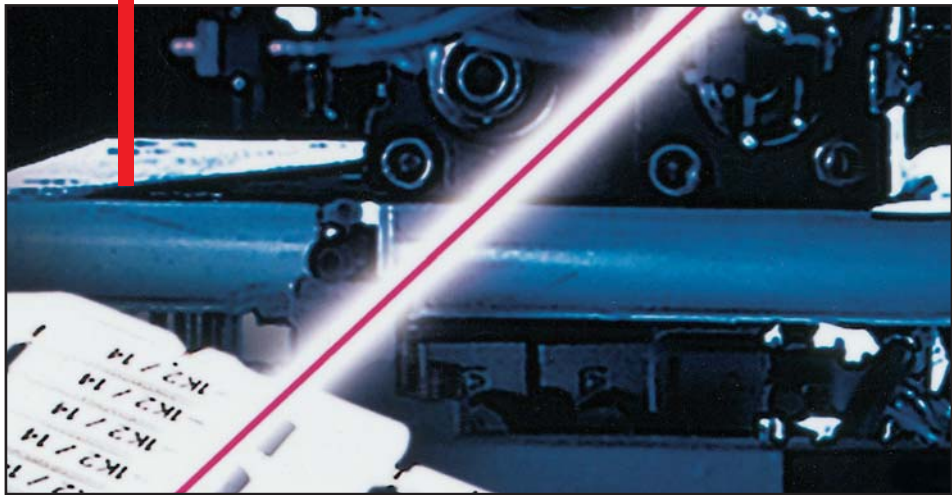
Quick and easy fitting of cables.
Cable ties may be pushed on if a rail is already fitted.



 -60 to +85 °C

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LABELING AND FITTING SERVICE



DL



Labeling and fitting service

Many companies are ill-equipped when it comes to correct and cost-effective labeling of cables in control cabinets and elsewhere.

We are all familiar, whether from the home or the office, with the maze of cables entangled behind and under the PC because so many peripheral devices have to be connected to the central unit - from the printer to the scanner and the speakers to the USB connection. The cables are labeled in precious few cases, resulting in confusion when changes or modifications are to be made.

Such negligence is unthinkable in industry. That's why there are precise regulations specifying how the individual cables, conduits and tubes are to be labeled in wiring harnesses or looms. After all, it is both desirable and imperative for the technician to know immediately what is in the control cabinet, railway carriage or behind the paneling in the aircraft. In the majority of cases such regulations do not merely state that labeling is mandatory but they also specify the precise nature of the labeling. Indeed, it can differ greatly in terms of inscription method, typeface and base material. Another factor to consider is that the labeling plates often have to be produced in bulk.

All-round service from Murrplastik

A company which develops, installs and commissions control systems, for example, is in many cases not in a position to undertake the prescribed, and often very different, labeling systems in terms of the equipment, manpower and time required. This work can therefore be undertaken by Murrplastik Systemtechnik GmbH - in the correct way, with the correct material and, above all, quickly and without undue inconvenience to the customer.

In its service center Murrplastik always applies the correct labeling method according to the requirement. Labels are generated using laser technology, plotter technology, laser printing technology and engraving techniques. Laser technology is synonymous with high operating speeds, supreme quality, short processing times and a really crisp typeface. Plotter technology boasts a very high configuration capacity and is suitable for virtually all materials. Laser printing technology lends itself well to sheet labels which are suitable for virtually all fields of application. Color printing is no problem either. Engraving technology is used for metals and suitable plastic-coated materials.

Convenient and secure data exchange

It is remarkably easy to transmit labeling data. It can simply be sent to our service center by e-mail, data carrier or fax. The data are then processed as quickly as possible by Murrplastik specialists and can be saved for two years for further projects on request. The data format options are virtually unlimited: ASCII format, files from MS Office applications (Word, Excel) and ACS labeling software data.

However, customized labeling is only one part of our all-round service package. Our specialists also fit labels in sleeves, assemble the holders and cable ties, undertake project-specific packing as prescribed, and much more

-
and they don't take all day.

Impressive credentials

For years now many reputable firms in a very diverse range of sectors have been using this all-inclusive service offered by our company - the automotive industry, railway systems, control cabinet construction, general electrical engineering - and for reasons obvious to branches of industry like these which are mindful of supreme economy and profitability!

We inscribe label plates, sheet labels and Duomatt labels using the following technologies:

- Laser
- Plotter
- Printer
- Engraving machine

We fit our label sleeves with your inscribed label plates ready for immediate mounting on wires, cables and conduits.

The benefits for you are obvious:

Your orders arrive directly in the service center and are processed on a day-to-day basis. You receive the inscribed labels/fitted sleeves back ready for mounting.

- Short processing times
- Rapid and cost-effective production
- Delivery within three working days

You send us your files by e-mail in one of the following formats:
ASCII, Excel, ACS *.mdb or ACS 2000 *.pdb (further formats on request).

Your orders and files will reach us directly at the following address:

dl@murrplastik.de

1.

Maximum quantities in minimum time

State-of-the-art equipment means that maximum quantities of labels can be inscribed in minimum time.

2.

Full service

Murrplastik will supply the fully-fitted sleeves or the inscribed labels only. Just as the customer wishes.

3.

High laser quality ...

... for supreme inscription quality on labels. Other inscription methods such as plotting and engraving are also offered.

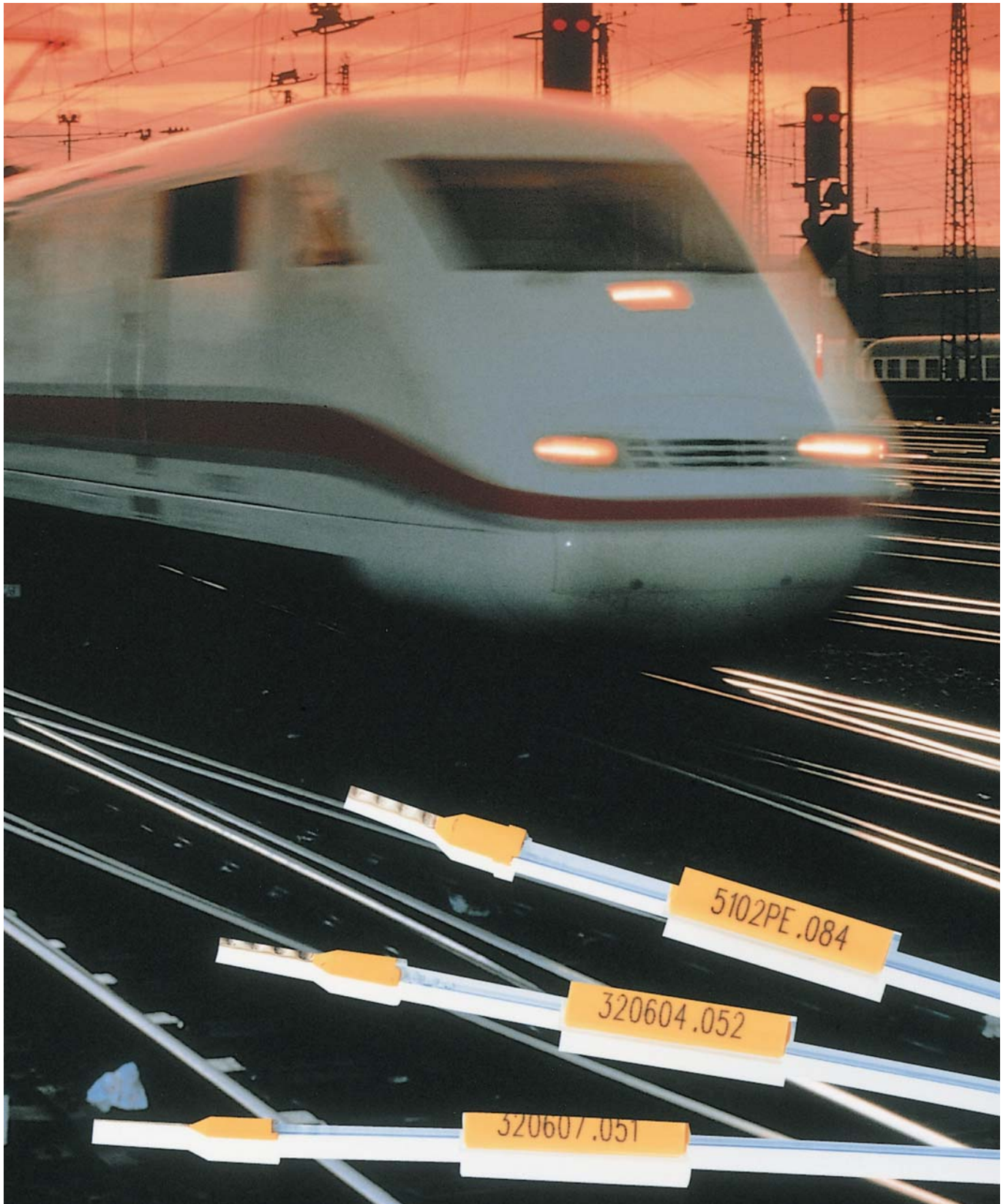
4.

Transfer of labeling data ...

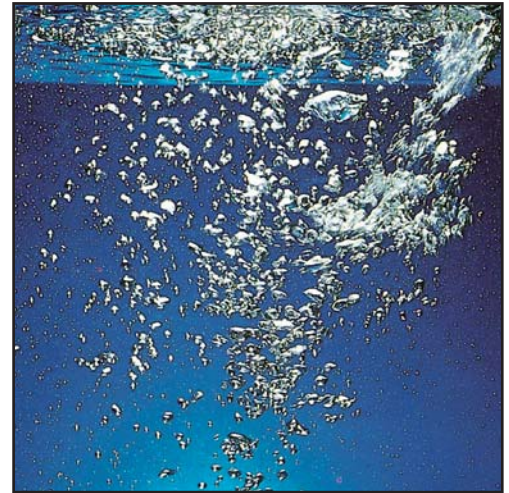
... is possible from all CAE/CAD programs or Excel files.



Labeling and fitting service



MATERIAL PROPERTIES





Material properties

Labeling systems and their properties

	Approvals	Material stability	Thermal classification	Fire ination	Lab exam-strength
Sleeves, general	Automotive, transport, rail, gen. mech. engineering, chemistry, energy, wood, foodstuffs, textiles, machine tools, transfer, building technologies, control technology, shipbuilding				
KT + KM		PVC	Up to 140 °F	V0 i.a.w. UL 94	Slight pitting
KTH + KMH		EVA	Up to 176 °F	HB i.a.w. UL 94	
KTH/Q		TPU	Up to 284 °F	V0 i.a.w. UL 94	OK
KTN		TPE	Up to 212 °F	HB i.a.w. UL 94	
ACS label					
ACS label plate, general		PC	Up to 284 °F	V0 i.a.w. UL 94	OK
KPX 6/10PA, KMR PA		PA	Up to 284 °F	V2 i.a.w. UL 94	
Holder					
BZS label rail		PVC	Up to 176 °F	V0 i.a.w. UL 94	Slight pitting
Accessories		PA	Up to 257 °F	V0 i.a.w. UL 94	
BT/BTK label holder		Hard PVC	Up to 176 °F	V0 i.a.w. UL 94	Slight pitting
Duomatt/Alumatt					
Duomatt plates		Acrylate butadiene copolymer	158 -176 °F		
Alumatt		Aluminum	Up to 392 °F		
Sheet labels					
ELG/ELW/ELO/ES/ESL		Polyester film	-40 °F to 302 °F constant min. processing temp. 41 °F	V0 i.a.w. UL 94	
EDG		Reinforced textile	32 °F to 176 °F		
Adhesive					
KSK label plate adhesive		Acrylate A-30	-40 °F to 302 °F constant transient + 392 °F processing temperature 64 °F to 86 °F	MIL-P-19834 B, Amend 1type1, UL approved (MH-11410), meets AGA and CSA requirements	
Adhesive (4930) BZS label rail		Polyacrylate mixed with adhesive resin	max. 199 °F, transient 300 °F min. processing temp. 50 °F		
Adhesive (4965) for BTK label holder		Polyacrylate mixed with adhesive resin	max. 199 °F, transient 300 °F min. processing temp. 50 °F		
Duomatt adhesive 467		Acrylate A-30	-40 °F to 302 °F constant transient + 392 °F, processing temperature 64 °F to 86 °F	MIL-P-19834 B, Amend 1type1, UL approved (MH-11410), meets AGA and CSA requirements	
Duomatt adhesive SK 1780		Polyethylene foam	-40 °C to 302 °F constant processing temperature 50 °F to 176 °F		

Tensile strength	Tear strength	Bonding	Solubility	Properties	Ingredients information	General
						As flame-retardant additives no polybromated and polychlorinated biphenyls (PBBs and PCBs), dibenzodioxins (PBDDs and PCDDs), dibenzofurans (PBDFs and PCDFs) or terphenyls (PCTs) are used
						The flame-retardant system is based on an aliphatic chlorinated salt and a small amount of PTFE
						Free from cadmium, asbestos, bromine, lead, mercury and silicone
						The material used for the ACS plates may be classified as halogen-free under DIN/VDE 0472, Part 815. This means a total bromine and chlorine content < 0.2 % and fluorine < 0.1 %.
					Free from cadmium, asbestos, formaldehyde, lead, mercury and ozone-destroying substances such as halon, CFCs and silicone	As flame-retardant additives no polychlorinated biphenyls, dibenzodioxins, dibenzofurans or terphenyls are used
						As flame-retardant additives no polybromated and polychlorinated biphenyls (PBBs and PCBs), dibenzodioxins (PBDDs and PCDDs), dibenzofurans (PBDFs and PCDFs) or terphenyls (PCTs) are used
acc. to DIN 53455 approx. 45 N/mm²	approx. 30 % longways approx. 20 % crossways				High solvent resistance excellent immunity to water chemical resistance, good electrical properties	
					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 substrate and not just the self-adhesive film alone.	
		17 N/10 mm				
		9 N/25 mm				
		11 N/10 mm				
		Insoluble				
		Insoluble				
		11 N/10 mm				
		10 N/15 mm				



Material properties

Comparative properties of polycarbonate and polyamide label plates

For your label plates Murrplastik Systemtechnik uses high-quality polycarbonate meeting the requirements laid down by UL94 for the top fire classification V0. This offers clear advantages over polyamide as used by our competitors.

Polycarbonate (PC) is used in applications requiring a high-quality surface finish in respect of scratch resistance and gloss level. As such, PC is widespread in the automotive sector, where examples of its use include headlight lenses and PC/ABS blends in the interior. By contrast, polyamide (PA) is rarely found as a blend in interior fittings. Polyamides are, however, prevalent under the bonnet, for example, where less significance is attached to the appearance.

For use as a label plate polyamide has another unfavorable property: ambient water absorption of approx. two weight percent. This can cause dimensional variations (small dimensions at low temperatures and low air humidity, large dimensions at high temperatures and high air humidity). While this may not affect the dimensions of the label plates too severely, it does unduly impact on the properties of the material. Indeed, if water absorption is low the material is very brittle and tends to break (e.g. when latching onto a terminal). Conversely, if water absorption is high then it is very soft and it may be difficult to separate plates from each other (tear response).

In terms of its inscription properties polycarbonate is streets ahead of polyamide. Since PC is more prone to chemical reaction it lends itself well to ink and also 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 inscription makes it an excellent abrasion-resistant surface for inks. If the resistance to abrasion and water is good in both materials then the inscription on polyamide wears off significantly if comes into contact with oil, petrol or spirit. Polycarbonate, however, is also resistant to these substances.

Material description

Material	Description
Polycarbonate (PC):	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. 150 °C and, as a general rule, PC is self-extinguishing without the addition of fire-retardants.
Polyamide (PA)	Broad range of properties covered by different types (PA 6 and PA6.6 are frequently used). Generally good electrical and mechanical properties with resistance to impact and abrasion being particularly strong. When dry, PA is sensitive to impact. Water absorption renders PA flexible.
Polyvinyl chloride (PVC):	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.
Thermoplastic polyurethane (TPU) :	Outstanding features of this material include its high flexibility even at low temperatures, high continuous operating temperature, high resistance to tear propagation and very good restoring forces, high resistance to grease, oil, solvents, high-energy radiation and ultraviolet light.

Tests and test procedure

Test	Test procedure
Materials testing	Flammability acc. to UL94 Hardness test as per Shore A - ISO 868
Ageing	Regular testing in climate simulation chamber as per Murrplastik in-house standard
Functional testing	Trial erection of sleeves at different temperatures. Assessment of fit at maximum and minimum diameters. Handling test on carrier/plate. Test on fit of plate in sleeve.
Vibration, shock and impact testing	Vibration, shock and impact test conforming to DIN EN 50155 Point 10.2.11 Simulated durability test using increased random vibration as specified by DIN EN 61373 (VDE 0155 Part 103): 1999-11 Point 9.1 Category 1B
Smear stability	Tests measuring resistance to wiping off machine oil, water, ethyl alcohol and hand perspiration.
Scratch resistance/abrasion	Test determining changes to legibility with different types of labeling (ink/printing/laser) pursuant to Murrplastik in-house standard.
Ultraviolet light resistance	Test in ultraviolet light chamber in accordance with Murrplastik in-house standard. Assessment of labeling for clear legibility. Standard: DIN EN ISO 4892-2
Chemical resistance of inscription	Test on chemical resistance according to Murrplastik in-house standard.



Product range



Cable drag chain systems



Labeling systems

Murrplastik's glass-fiber reinforced plastic cable drag chains are used wherever cables and conduits of different sizes and types need to be guided flexibly and linearly. This might include robots, crane systems, plant and materials handling technology, automotive engineering, etc. What makes Murrplastik's cable drag chains stand out is that they are optimally tailored



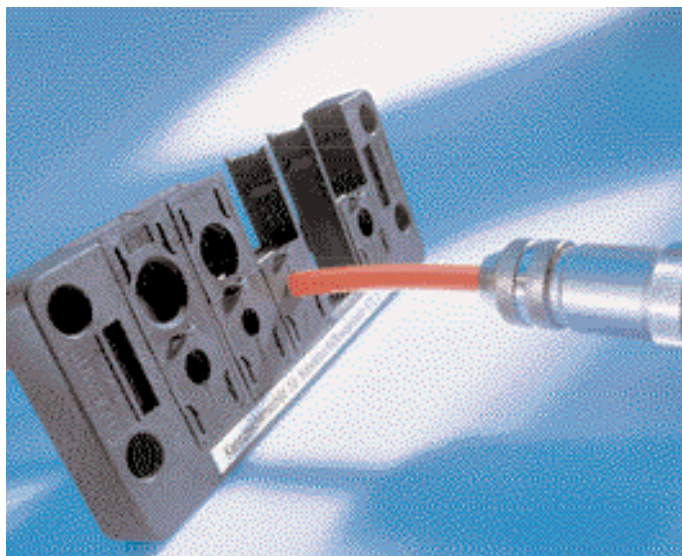
to an extremely wide range of applications.

Our application engineers can put together a customized package for your own specific requirements from the comprehensive and growing product line.

Murrplastik is the world's leading manufacturer of manual and computer-controlled labeling. Our labeling software will help you produce individual labels with the aid of plotters, engraving machines, printers and laser



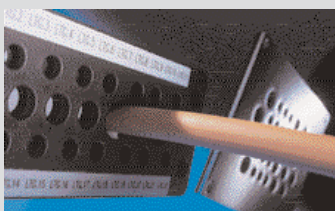
printing machines. All labeling systems are characterized by high quality, durability and versatility, allowing you to produce labels at any time afterwards as well. We offer labeling as a special service. The tests, carried out in our own test facilities, are your guarantee of suitability for heavy-duty use. We have been developing and marketing software and hardware around the world for many years already. Typical fields of use include production systems in the automotive industry and railway engineering.



Cable entry and cable

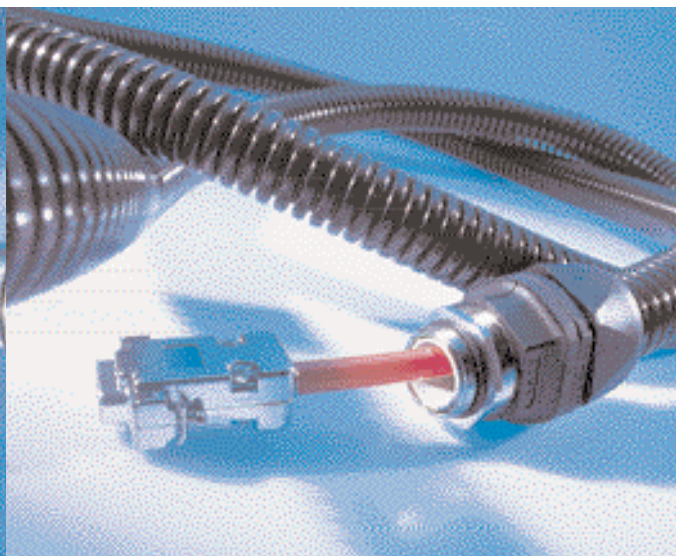
holding systems

Anyone working with switch cabinets or housings will be familiar with the problems associated with introducing pre-assembled cables. That's why Murrplastik has developed divisible systems. These enable cables with plugs to be introduced easily into the housing even afterwards. These



s y s t e m s ensure that cables and conduits are led through optimally even

when packing density is enormous. The cable entry systems deliver superb process reliability. There is also a very practical and streamlined solution for electric and pneumatic cables: the cable entry plate system. The large number of product variants will help you find the best solution for your requirements.



Cable protection conduit

and fitting systems

Health and safety are the number one priority when it comes to cable drag chains. Cable protection conduits and fittings reliably keep external influences such as oil, dirt, water and chips away from cables. Murrplastik boasts many years of experience in this area, and the product range now includes over 900 screwed fittings and 200 different conduits, all made from

plastic. We always focus on the benefits for the user and the systematic ap-



proach. Our product range offers an absolutely compatible selection of various screwed fittings, distributors and holders for every conduit size. All SUV systems can be assembled immediately without any additional parts, which shows just how easy and convenient they are to use.



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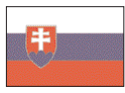
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Ropla Ukraine

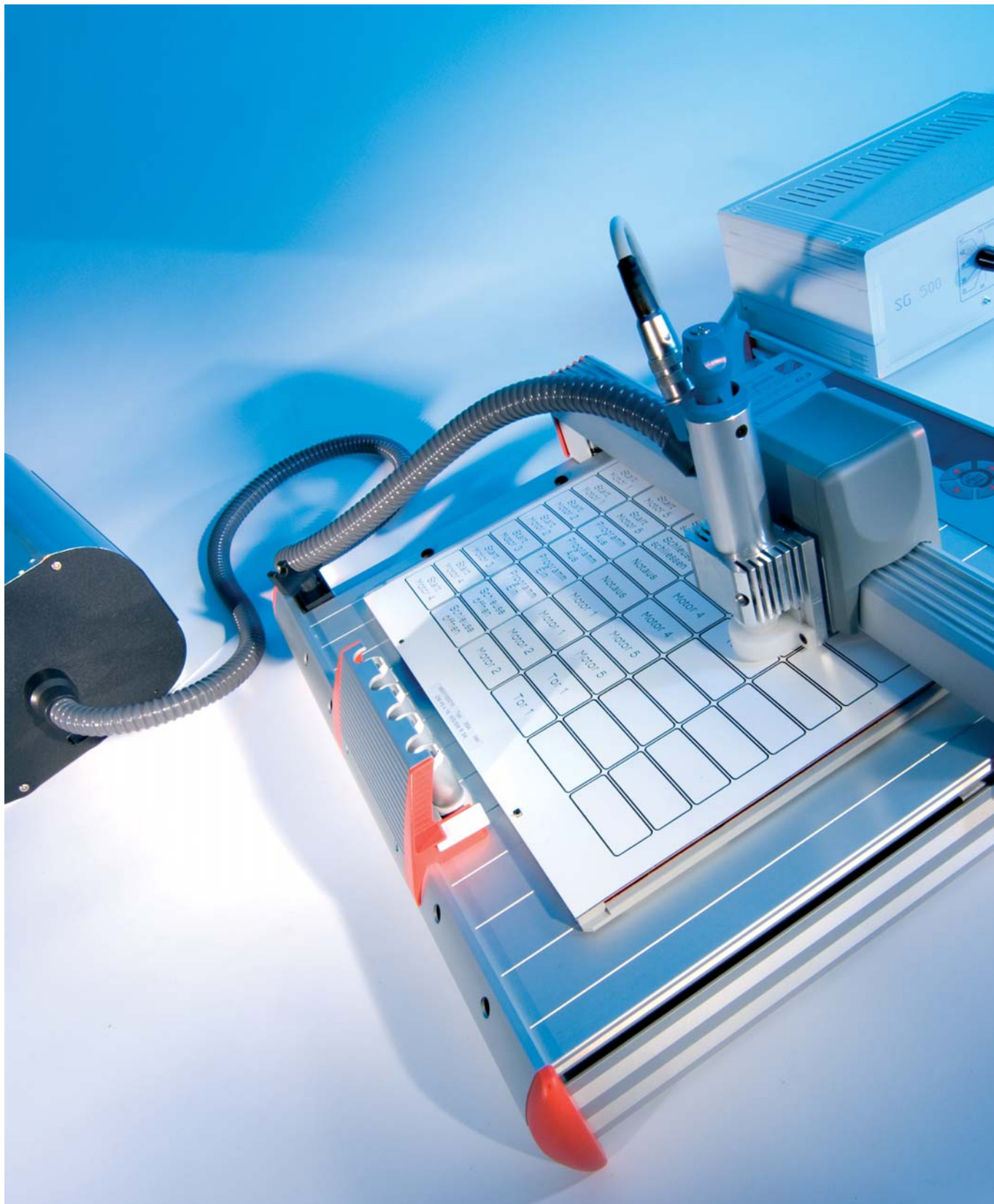
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Notes

This image shows a full page of blank graph paper. The grid consists of small, equal-sized squares formed by thin black lines. There are no margins, text, or other markings on the page.

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Notes

This image shows a full page of blank graph paper. The background is a solid light gray color. Overlaid on this background is a precise grid of thin, dark gray horizontal and vertical lines. These lines intersect to form a series of small, identical squares across the entire surface of the page, providing a template for technical drawing or mathematics.



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Specifications



Temperature range



Material



Fire classification acc. to UL 94



Additional information
for use and processing

DUOMATT color combinations

Color combinations			Surface/base color
			White/black
			Black/white
			Yellow/black
			Red/white
			Blue/white
			Green/white
			White/red
			Yellow/red
			Silver/black
			Gold/black
			Orange/white
			Grey/black
			Siemens silver/black

Other color combinations can be supplied on request.

The colors shown here may differ from the original material due to typographical reasons.

Turn over for information on
installation and inscription methods.
Please open out if necessary.



Labeling



All articles bearing this sign are **halogen-free**



New article

Installation method



Sleeve system

Push-on sleeve mounting system



Direct labeling system

Direct push-on mounting system



Cable tie system without sleeves

Plate mounted with cable ties



Snap-in system

Plate snapped into place



Strip system

Strip snapped into place



Cable tie with title block

Mounted with cable ties



Adhesive system

Plate glued into place



Clamping system

Sleeve clamped into place



Rivet system

Plate riveted into place



Cable tie system with sleeves

Sleeve mounted with cable ties



Screw-in system

Plate screwed into place



Self-clamping system

Self-clamping base used to mount holder

Inscription technique



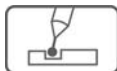
Inscription with **plotter**



Inscription with **hand pen**



Inscription with **automatic laser**



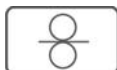
Inscription by **engraving**



Inscription with **dot-matrix printer**



Inscription with **laser printer**



Inscription with **thermal transfer printer**



Inscription with **ink-jet printer**



Pre-inscribed label plate